



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 08:07 AM UTC

PDB ID : 6NCL / pdb_00006ncl
EMDB ID : EMD-0436
Title : Near-atomic structure of icosahedrally averaged PBCV-1 capsid
Authors : Fang, Q.; Rossmann, M.G.
Deposited on : 2018-12-11
Resolution : 3.50 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

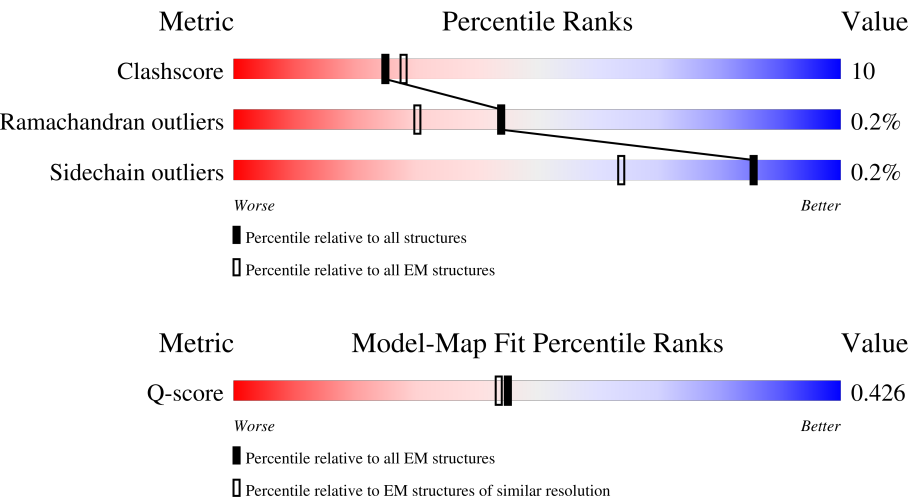
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 3.50 Å.

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



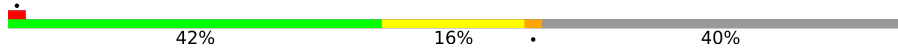
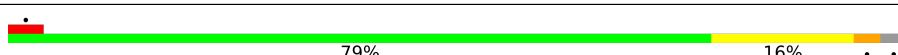
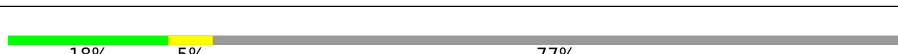
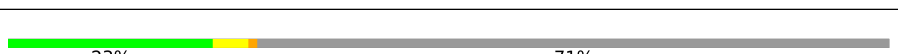
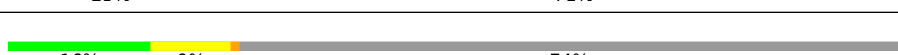
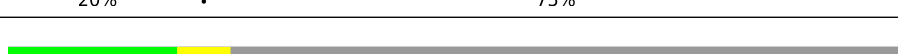
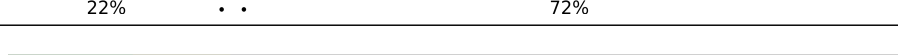
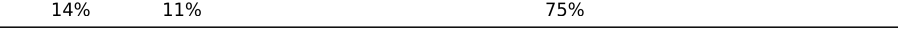
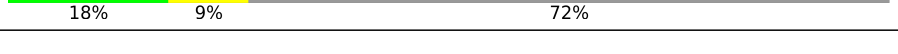
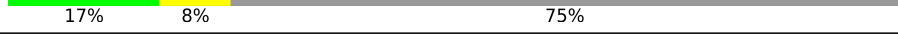
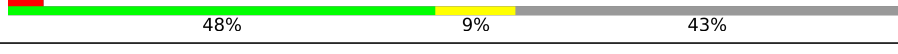
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13950 (3.00 - 4.00)

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

Mol	Chain	Length	Quality of chain
1	a0	352	25% 72%
2	a1	210	33% 15% 49%
3	a2	289	20% 10% 67%
3	a3	289	18% 8% 74%

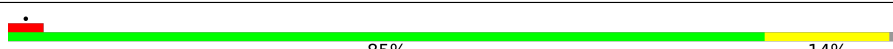
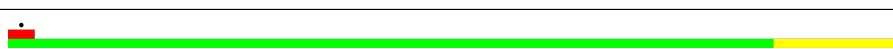
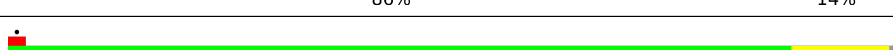
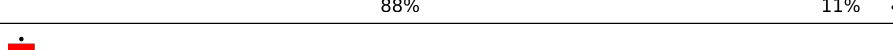
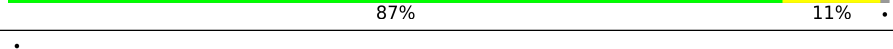
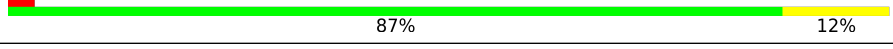
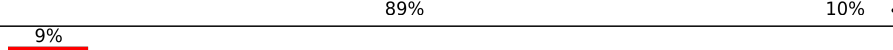
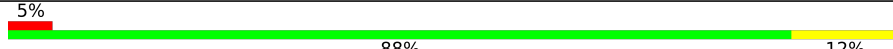
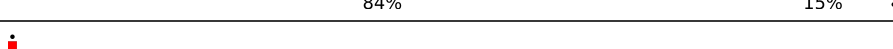
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Mol	Chain	Length	Quality of chain
4	a4	256	
5	a5	216	
6	a6	170	
7	a7	151	
8	a8	146	
9	a9	207	
9	b0	207	
9	b1	207	
9	b2	207	
9	b3	207	
9	b4	207	
9	b5	207	
9	b7	207	
9	b8	207	
9	c0	207	
9	c1	207	
9	l5	207	
10	b6	576	
11	c2	181	
11	c3	181	
11	c4	181	
11	c5	181	
12	c6	171	
12	c7	171	
12	c8	171	

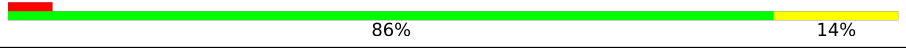
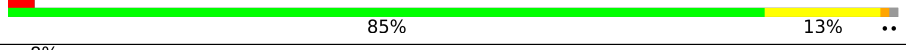
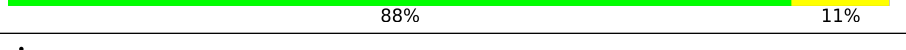
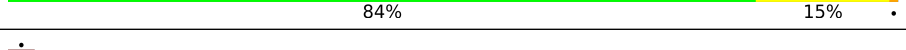
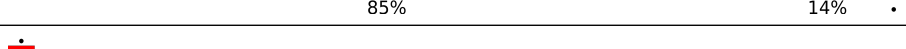
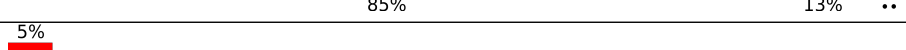
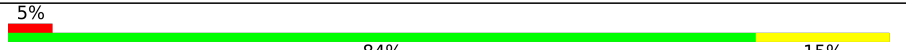
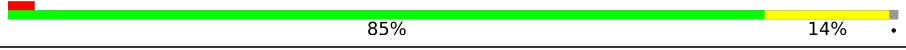
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Mol	Chain	Length	Quality of chain
13	c9	173	
14	d0	437	
14	d1	437	
14	d2	437	
14	d3	437	
14	d4	437	
14	d5	437	
14	d6	437	
14	d7	437	
14	d8	437	
14	d9	437	
14	e0	437	
14	e1	437	
14	e2	437	
14	e3	437	
14	e4	437	
14	e5	437	
14	e6	437	
14	e7	437	
14	e8	437	
14	e9	437	
14	f0	437	
14	f1	437	
14	f2	437	
14	f3	437	

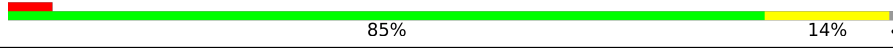
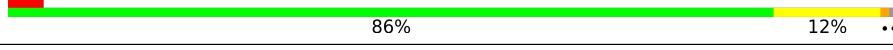
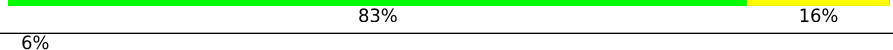
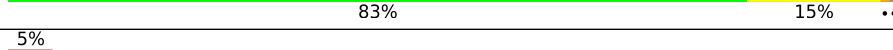
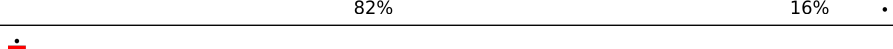
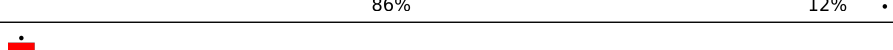
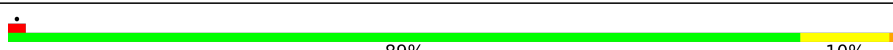
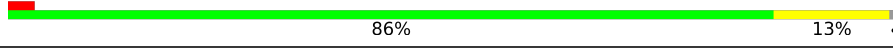
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Mol	Chain	Length	Quality of chain
14	f4	437	
14	f5	437	
14	f6	437	
14	f7	437	
14	f8	437	
14	f9	437	
14	g0	437	
14	g1	437	
14	g2	437	
14	g3	437	
14	g4	437	
14	g5	437	
14	g6	437	
14	g7	437	
14	g8	437	
14	g9	437	
14	h0	437	
14	h1	437	
14	h2	437	
14	h3	437	
14	h4	437	
14	h5	437	
14	h6	437	
14	h7	437	
14	h8	437	

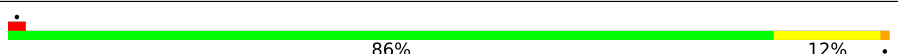
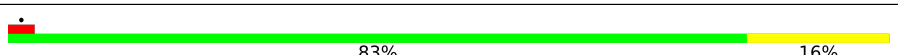
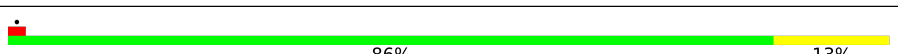
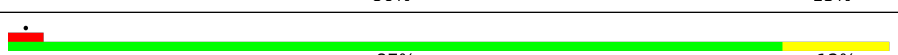
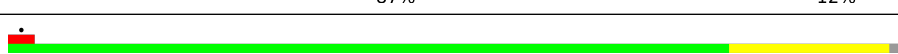
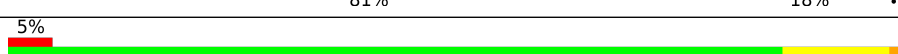
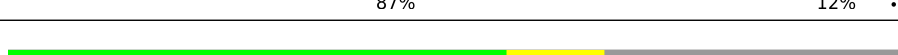
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Mol	Chain	Length	Quality of chain
14	h9	437	
14	i0	437	
14	i1	437	
14	i2	437	
14	i3	437	
14	i4	437	
14	i5	437	
14	i6	437	
14	i7	437	
14	i8	437	
14	i9	437	
14	j0	437	
14	j1	437	
14	j2	437	
14	j3	437	
14	j4	437	
14	j5	437	
14	j6	437	
14	j7	437	
14	j8	437	
14	j9	437	
14	k0	437	
14	k1	437	
14	k2	437	
14	k3	437	

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Mol	Chain	Length	Quality of chain
14	k4	437	
14	k5	437	
14	k6	437	
14	k7	437	
14	k8	437	
14	k9	437	
14	l0	437	
14	l1	437	
14	l2	437	
14	l3	437	
15	l4	98	

2 Entry composition [i](#)

There are 15 unique types of molecules in this entry. The entry contains 305842 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called P14.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	a0	97	Total	C	N	O	S	0	0
			733	463	122	145	3		

- Molecule 2 is a protein called P9.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	a1	107	Total	C	N	O	S	0	0
			718	445	122	146	5		

- Molecule 3 is a protein called P10.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	a2	94	Total	C	N	O	S	0	0
			650	411	110	125	4		
3	a3	74	Total	C	N	O	S	0	0
			485	308	86	88	3		

- Molecule 4 is a protein called P7.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	a4	153	Total	C	N	O	S	0	0
			1088	689	192	197	10		

- Molecule 5 is a protein called P6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	a5	189	Total	C	N	O	S	0	0
			1326	878	210	236	2		

- Molecule 6 is a protein called P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	a6	167	Total	C	N	O	S	0	0
			1192	756	203	229	4		

- Molecule 7 is a protein called P12.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	a7	78	Total	C	N	O	S	0	0
			543	357	88	95	3		

- Molecule 8 is a protein called P5.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	a8	142	Total	C	N	O	S	0	0
			988	638	168	180	2		

- Molecule 9 is a protein called P11.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	a9	47	Total	C	N	O	S	0	0
			311	200	53	57	1		
9	b0	59	Total	C	N	O	S	0	0
			398	248	70	79	1		
9	b1	54	Total	C	N	O		0	0
			368	238	64	66			
9	b2	51	Total	C	N	O	S	0	0
			350	227	59	63	1		
9	b3	51	Total	C	N	O	S	0	0
			335	216	56	62	1		
9	b4	52	Total	C	N	O	S	0	0
			350	228	61	60	1		
9	b5	57	Total	C	N	O	S	0	0
			367	237	64	64	2		
9	b7	52	Total	C	N	O	S	0	0
			375	244	63	67	1		
9	b8	57	Total	C	N	O		0	0
			379	244	66	69			
9	c0	51	Total	C	N	O	S	0	0
			338	214	59	64	1		
9	c1	51	Total	C	N	O	S	0	0
			335	213	59	61	2		
9	l5	58	Total	C	N	O		0	0
			392	253	67	72			

- Molecule 10 is a protein called P2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	b6	475	Total	C	N	O	S	0	0
			3210	2016	587	603	4		

- Molecule 11 is a protein called P4.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	c2	103	Total	C	N	O	S	0	0
			603	369	110	123	1		
11	c3	60	Total	C	N	O		0	0
			389	242	69	78			
11	c4	58	Total	C	N	O		0	0
			369	230	65	74			
11	c5	58	Total	C	N	O		0	0
			396	252	72	72			

- Molecule 12 is a protein called P3.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	c6	141	Total	C	N	O	S	0	0
			951	602	170	177	2		
12	c7	147	Total	C	N	O	S	0	0
			1004	648	172	180	4		
12	c8	116	Total	C	N	O	S	0	0
			813	519	141	149	4		

- Molecule 13 is a protein called P8.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	c9	166	Total	C	N	O	S	0	0
			1191	776	198	214	3		

- Molecule 14 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	d0	432	Total	C	N	O	S	0	0
			3369	2142	570	649	8		
14	d1	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	d2	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	d3	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	d4	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	d5	435	Total	C	N	O	S	0	0
			3383	2150	574	651	8		
14	d6	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	d7	435	Total	C	N	O	S	0	0
			3381	2149	571	653	8		
14	d8	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	d9	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	e0	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	e1	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	e2	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	e3	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	e4	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	e5	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	e6	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	e7	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	e8	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	e9	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	f0	434	Total	C	N	O	S	0	0
			3375	2143	573	651	8		
14	f1	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	f2	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	f3	435	Total	C	N	O	S	0	0
			3383	2147	575	653	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	f4	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	f5	434	Total	C	N	O	S	0	0
			3376	2146	570	652	8		
14	f6	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	f7	434	Total	C	N	O	S	0	0
			3372	2142	572	650	8		
14	f8	433	Total	C	N	O	S	0	0
			3378	2147	572	651	8		
14	f9	434	Total	C	N	O	S	0	0
			3379	2145	574	652	8		
14	g0	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	g1	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	g2	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	g3	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	g4	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	g5	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	g6	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	g7	434	Total	C	N	O	S	0	0
			3376	2146	570	652	8		
14	g8	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	g9	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	h0	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	h1	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	h2	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	h3	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	h4	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	h5	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	h6	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	h7	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	h8	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	h9	435	Total	C	N	O	S	0	0
			3381	2149	571	653	8		
14	i0	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	i1	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	i2	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	i3	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	i4	435	Total	C	N	O	S	0	0
			3384	2150	572	654	8		
14	i5	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	i6	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	i7	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	i8	436	Total	C	N	O	S	0	0
			3388	2150	576	654	8		
14	i9	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	j0	436	Total	C	N	O	S	0	0
			3392	2155	576	653	8		
14	j1	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	j2	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	j3	435	Total	C	N	O	S	0	0
			3387	2152	575	652	8		
14	j4	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	j5	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
14	j6	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	j7	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	j8	435	Total	C	N	O	S	0	0
			3390	2153	575	654	8		
14	j9	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	k0	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	k1	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	k2	435	Total	C	N	O	S	0	0
			3387	2152	574	653	8		
14	k3	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	k4	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	k5	436	Total	C	N	O	S	0	0
			3395	2156	576	655	8		
14	k6	435	Total	C	N	O	S	0	0
			3391	2153	575	655	8		
14	k7	435	Total	C	N	O	S	0	0
			3387	2151	574	654	8		
14	k8	435	Total	C	N	O	S	0	0
			3391	2153	575	655	8		
14	k9	435	Total	C	N	O	S	0	0
			3381	2149	571	653	8		
14	l0	435	Total	C	N	O	S	0	0
			3391	2153	575	655	8		
14	l1	435	Total	C	N	O	S	0	0
			3391	2153	575	655	8		
14	l2	434	Total	C	N	O	S	0	0
			3382	2149	573	652	8		
14	l3	436	Total	C	N	O	S	0	0
			3396	2156	576	656	8		

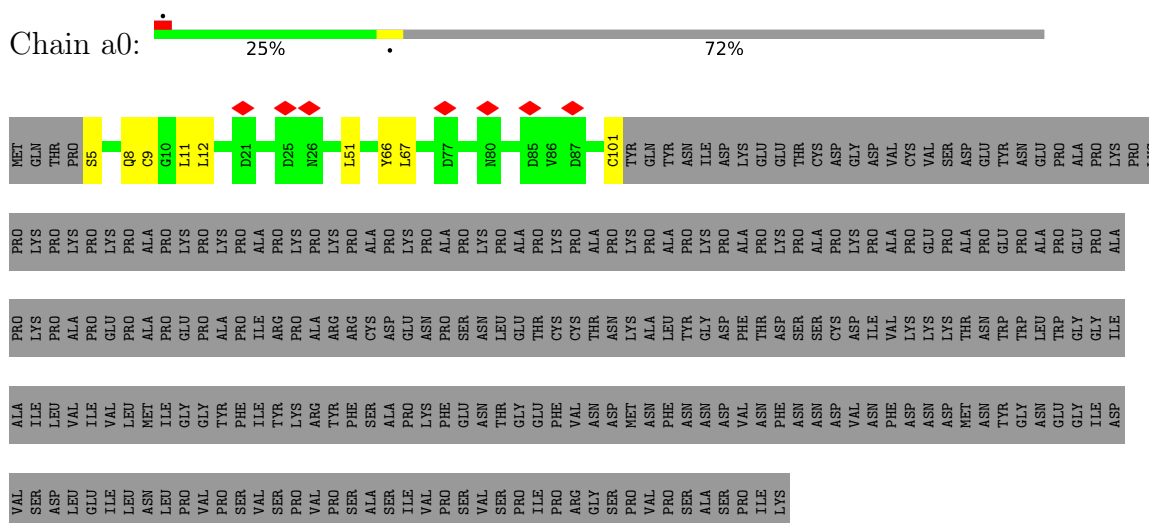
- Molecule 15 is a protein called P13.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	l4	66	Total	C	N	O	S	0	0
			487	313	82	90	2		

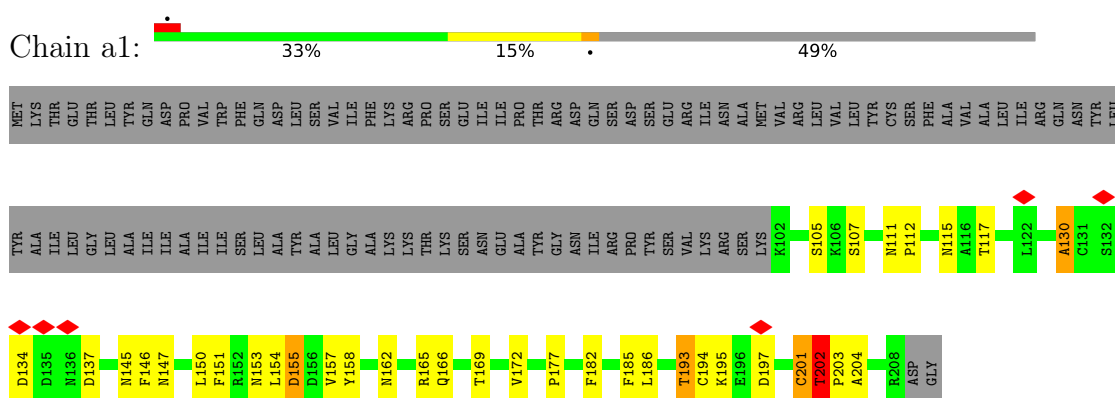
3 Residue-property plots [i](#)

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

• Molecule 1: P14

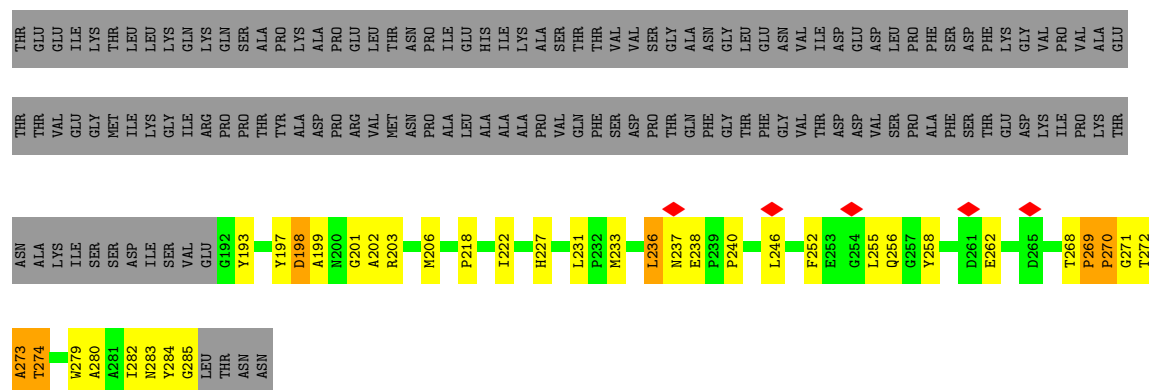


• Molecule 2: P9

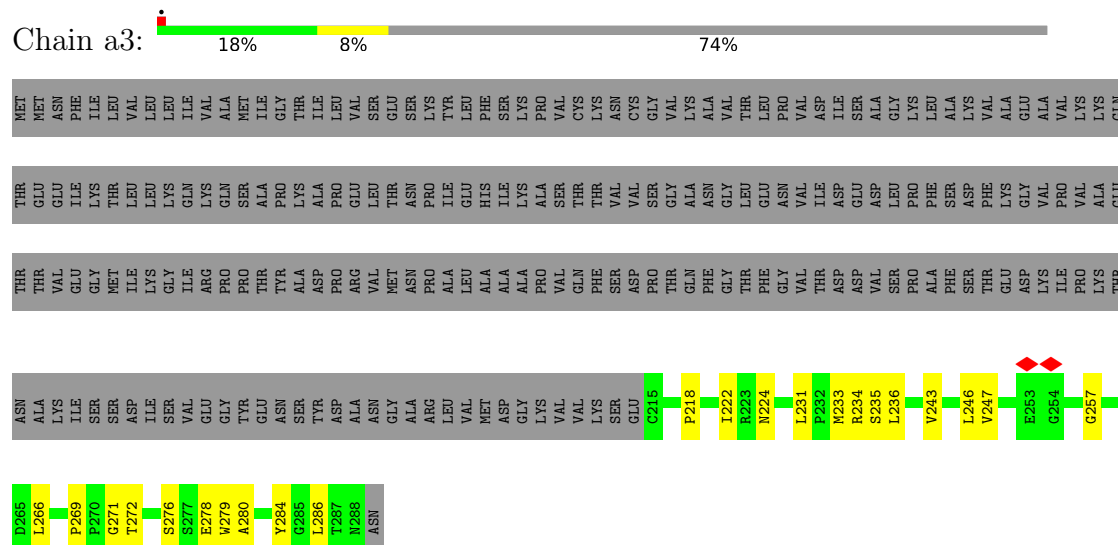


• Molecule 3: P10

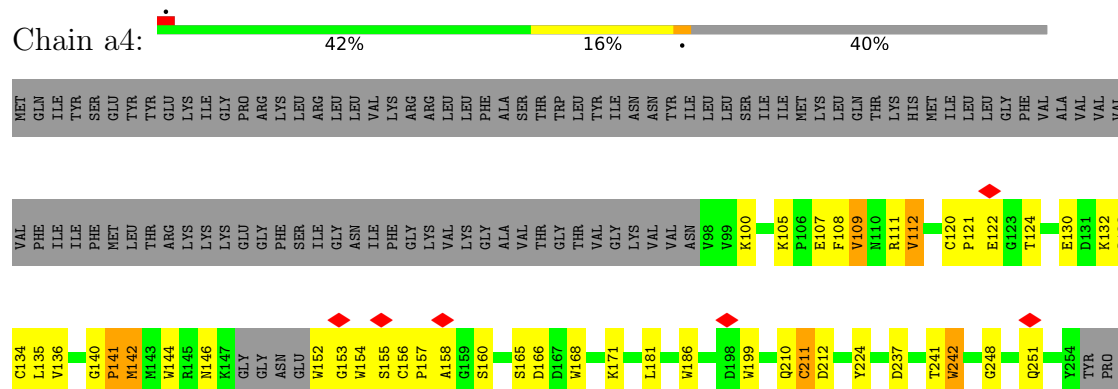




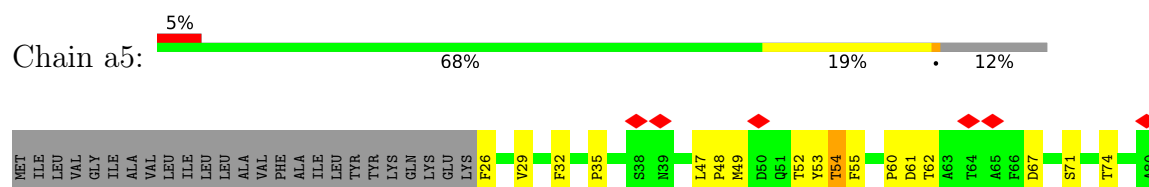
• Molecule 3: P10



• Molecule 4: P7

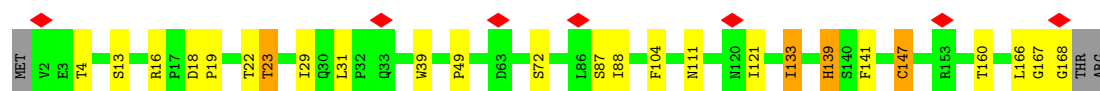
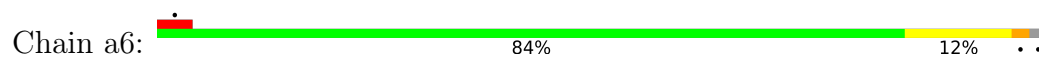


• Molecule 5: P6

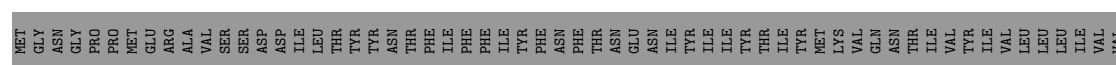
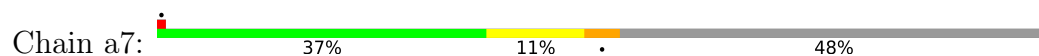




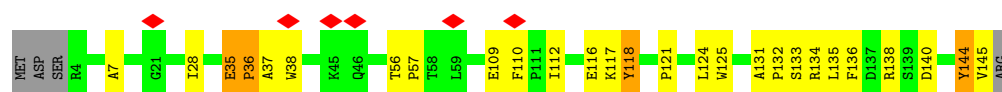
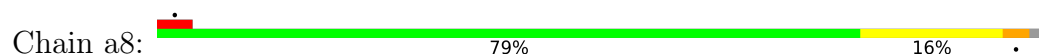
• Molecule 6: P1



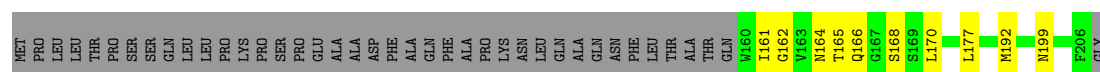
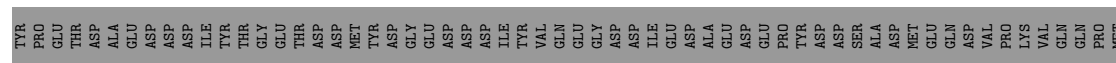
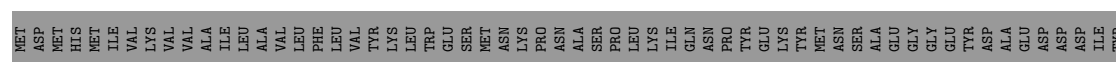
• Molecule 7: P12



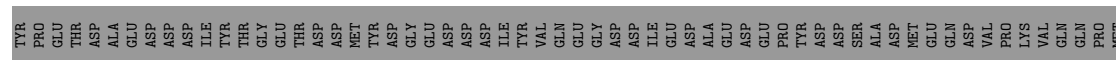
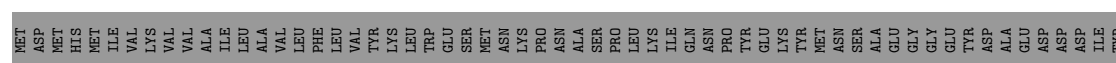
• Molecule 8: P5

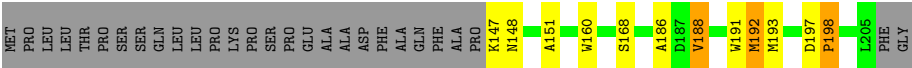


• Molecule 9: P11

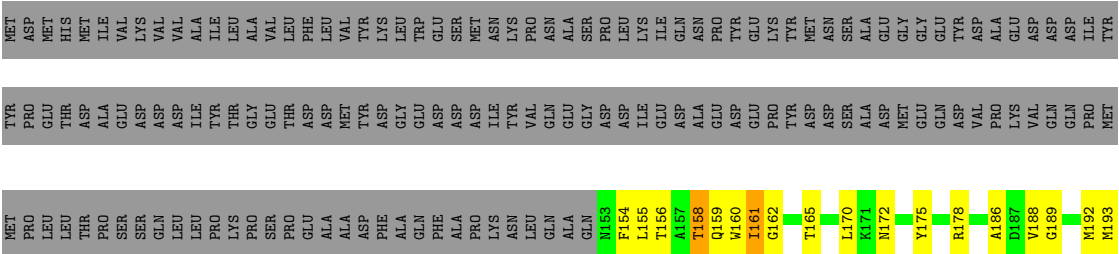


• Molecule 9: P11

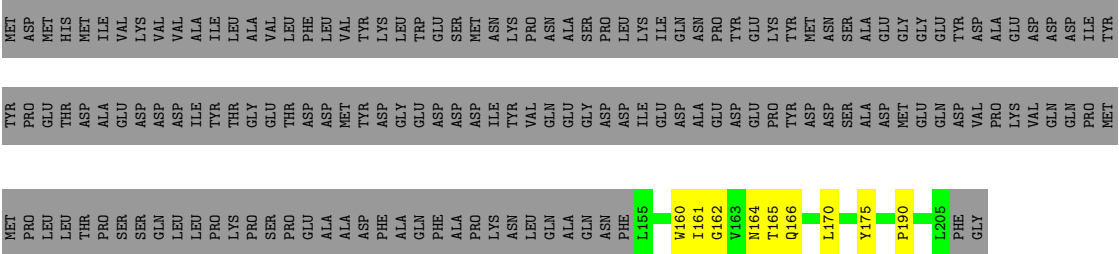




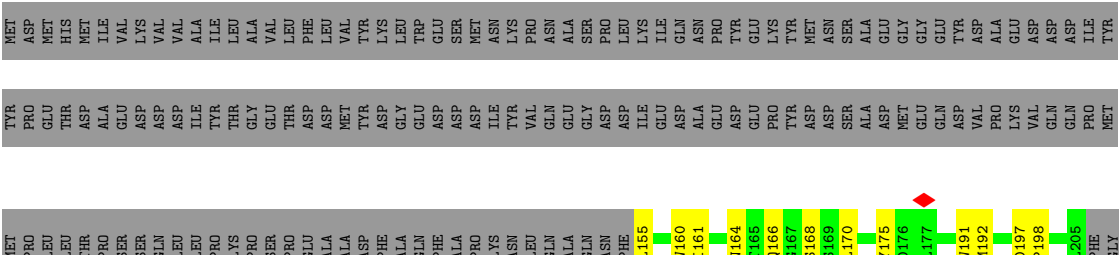
• Molecule 9: P11



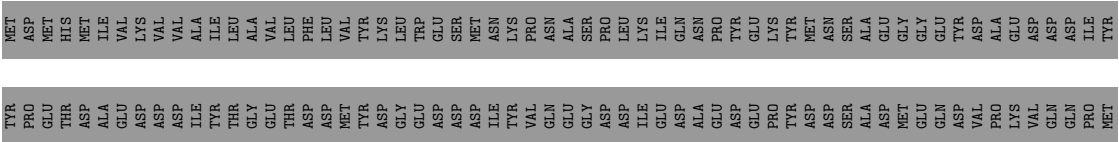
• Molecule 9: P11



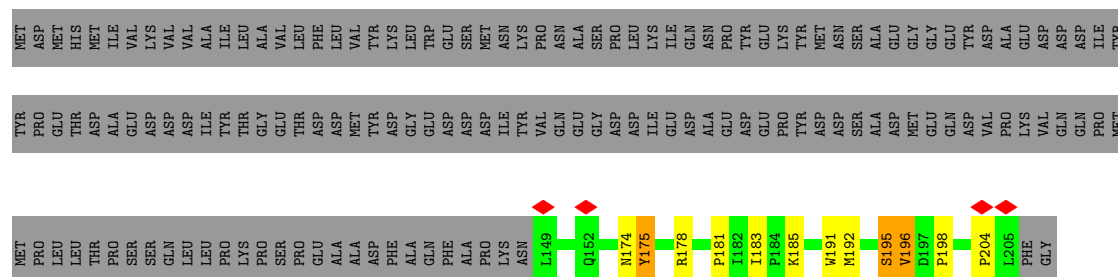
• Molecule 9: P11



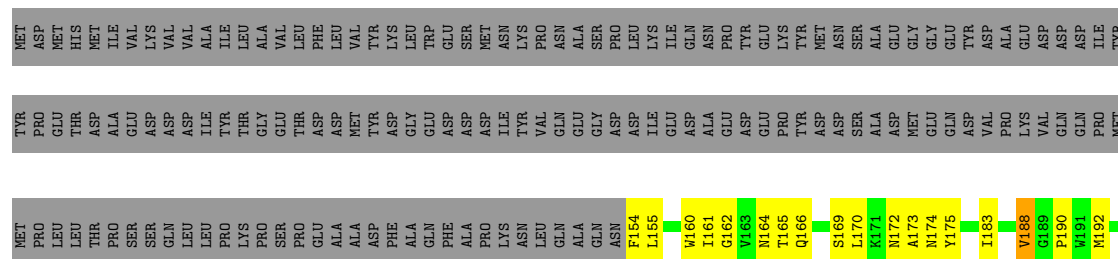
• Molecule 9: P11



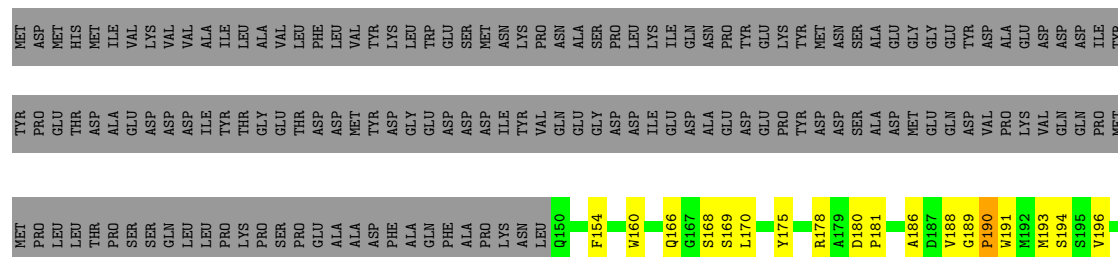
- Molecule 9: P11



- Molecule 9: P11

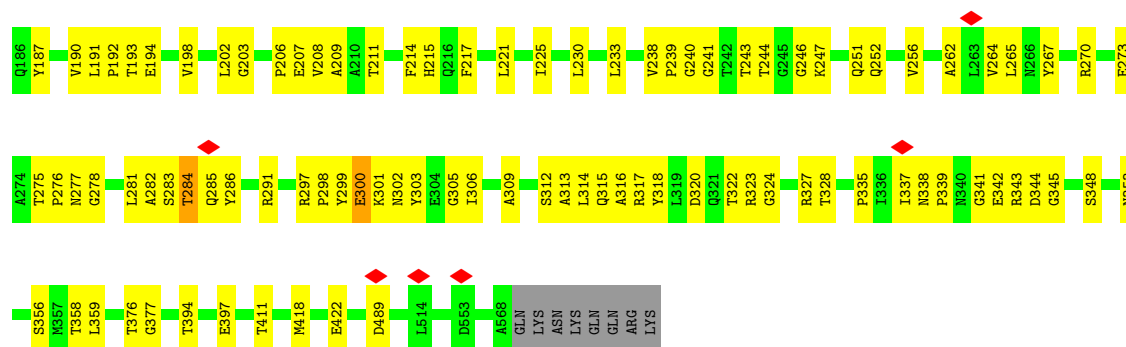


- Molecule 9: P11

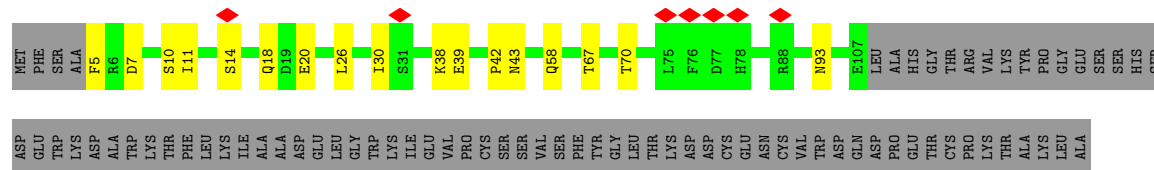


- Molecule 9: P11

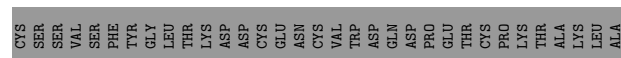
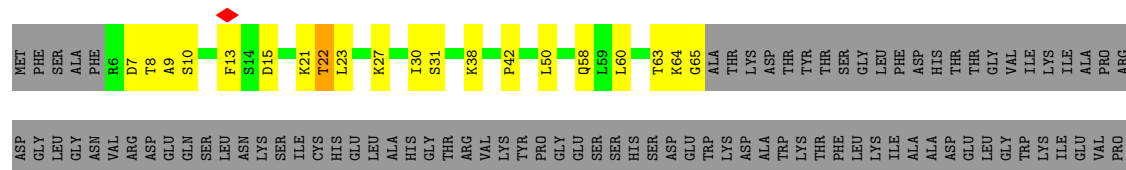
[illegible][illegible][illegible][illegible]



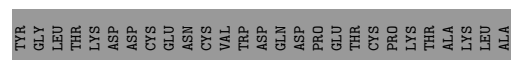
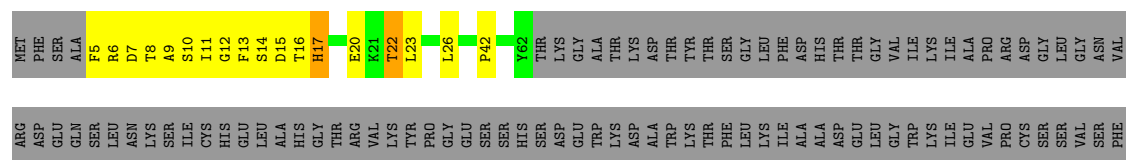
- Molecule 11: P4



- Molecule 11: P4

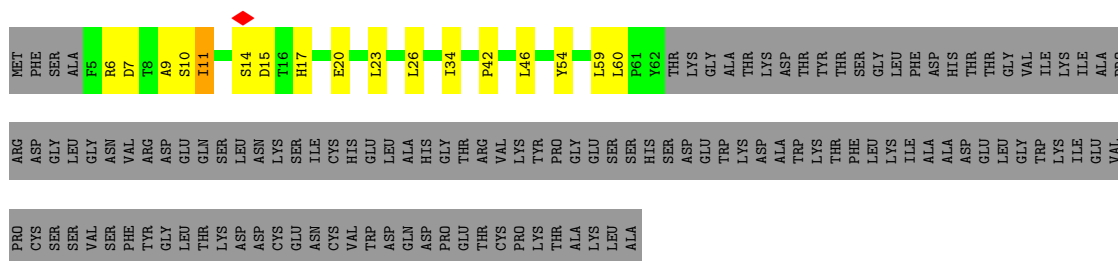


- Molecule 11: P4



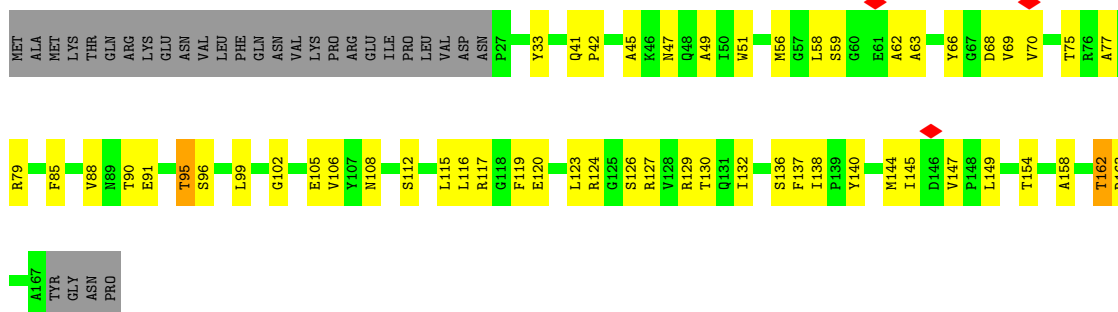
- Molecule 11: P4





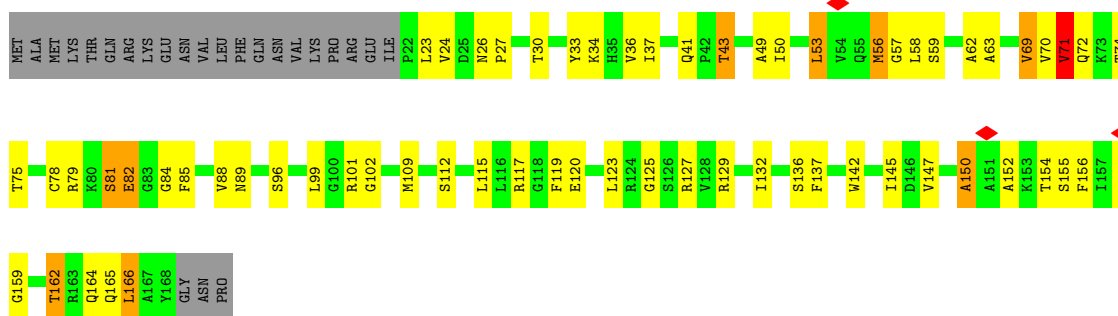
• Molecule 12: P3

Chain c6: 50% 31% 18%



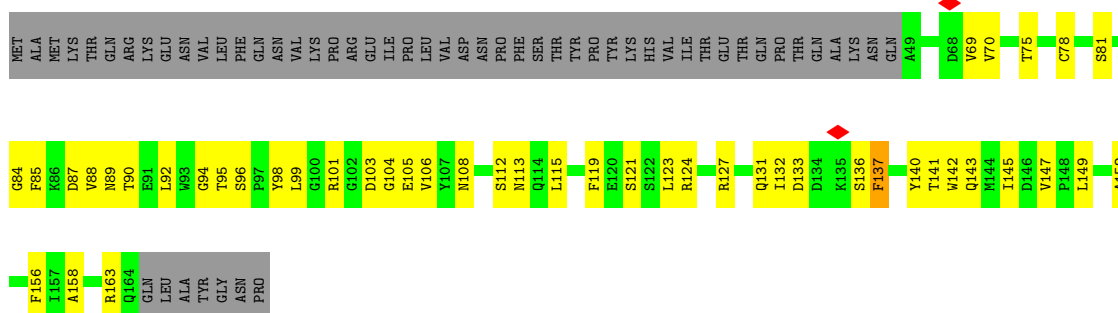
• Molecule 12: P3

Chain c7: 48% 32% 5% 14%



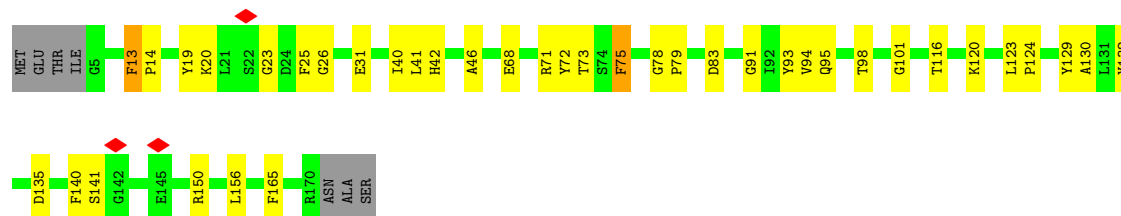
• Molecule 12: P3

Chain c8: 40% 27% 32%



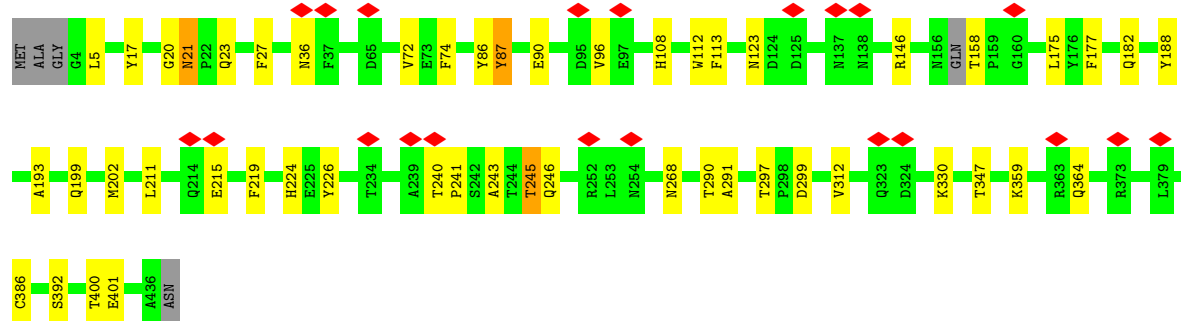
- Molecule 13: P8

Chain c9:  73% 21%



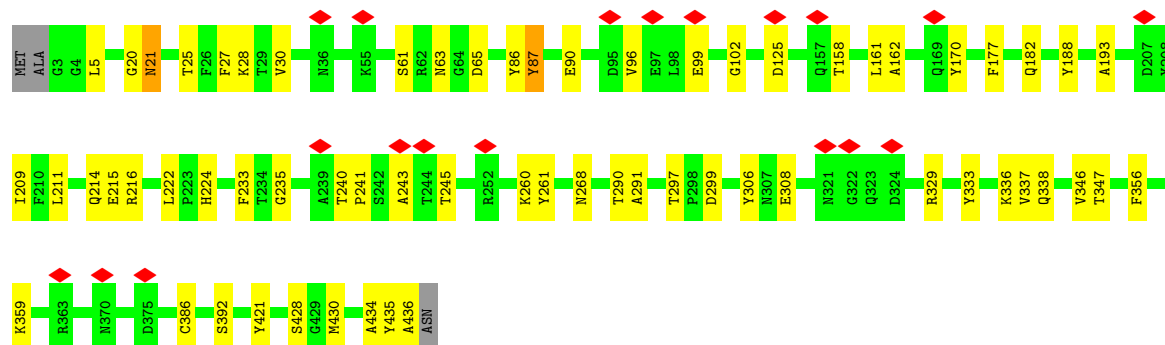
- Molecule 14: Major capsid protein

Chain d0:  5% 87% 11%



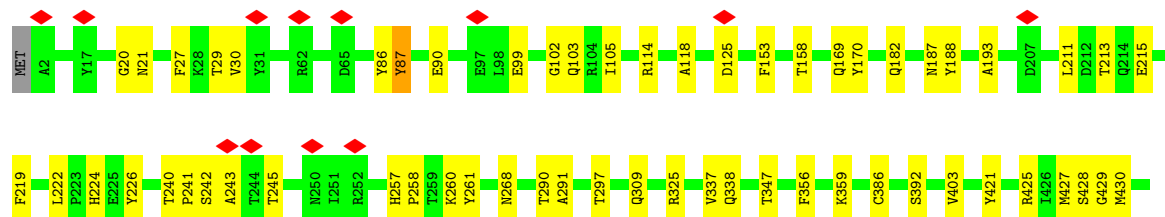
- Molecule 14: Major capsid protein

Chain d1:  85% 14%



- Molecule 14: Major capsid protein

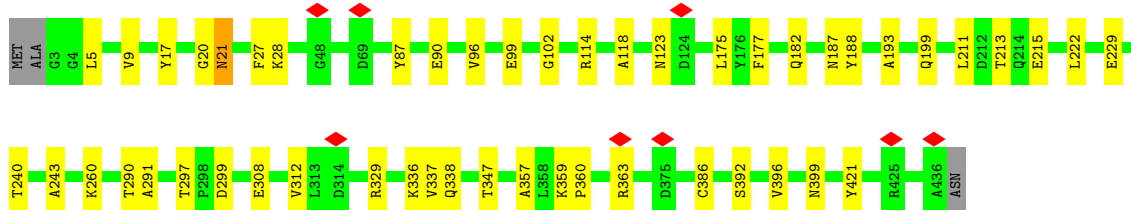
Chain d2:  86% 14%





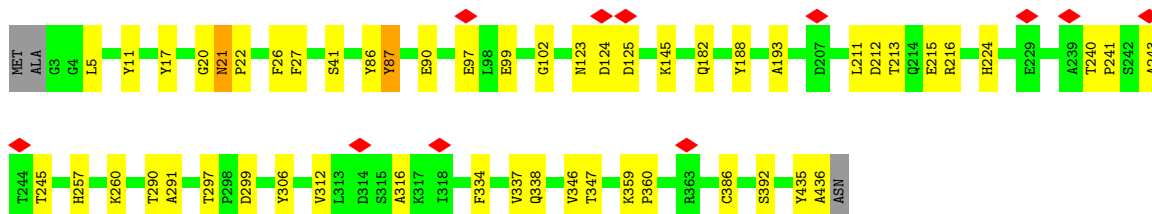
- Molecule 14: Major capsid protein

Chain d3: 88% 11%



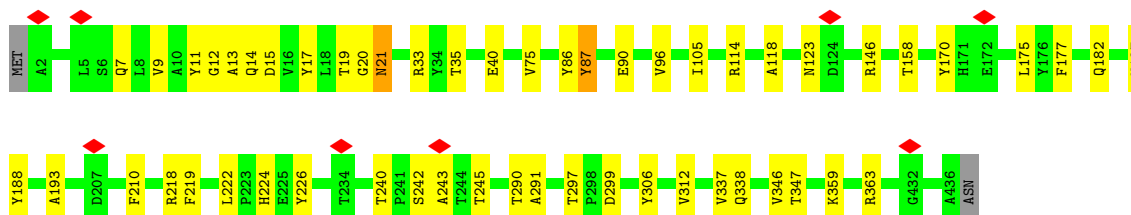
- Molecule 14: Major capsid protein

Chain d4: 87% 11%



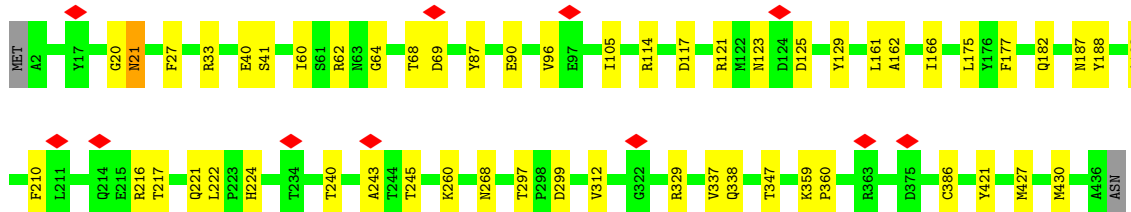
- Molecule 14: Major capsid protein

Chain d5: 87% 12%

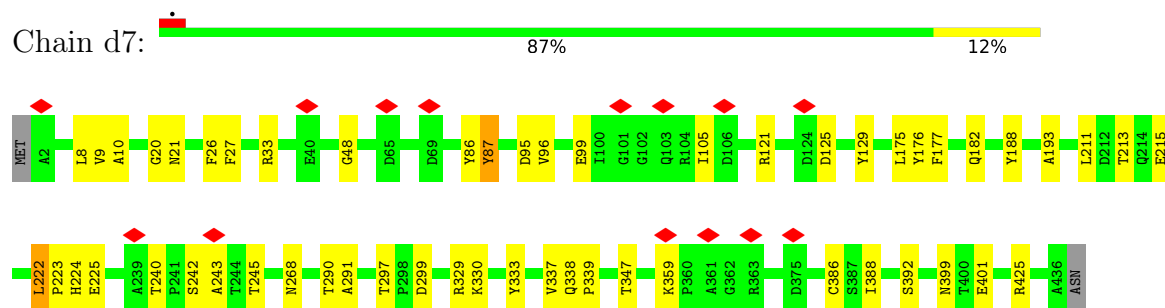


- Molecule 14: Major capsid protein

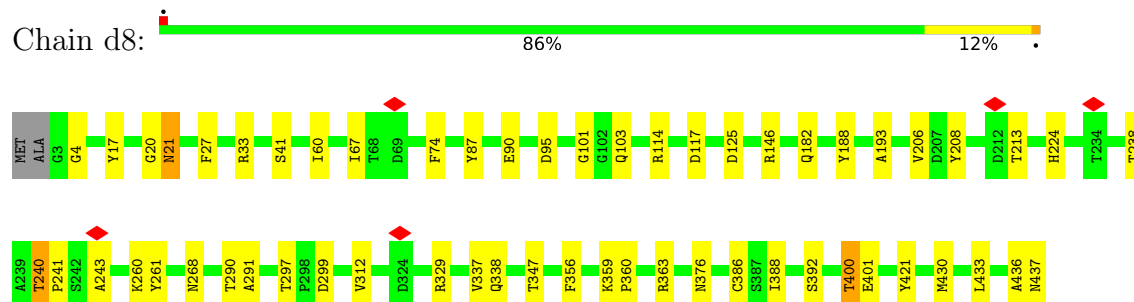
Chain d6: 87% 12%



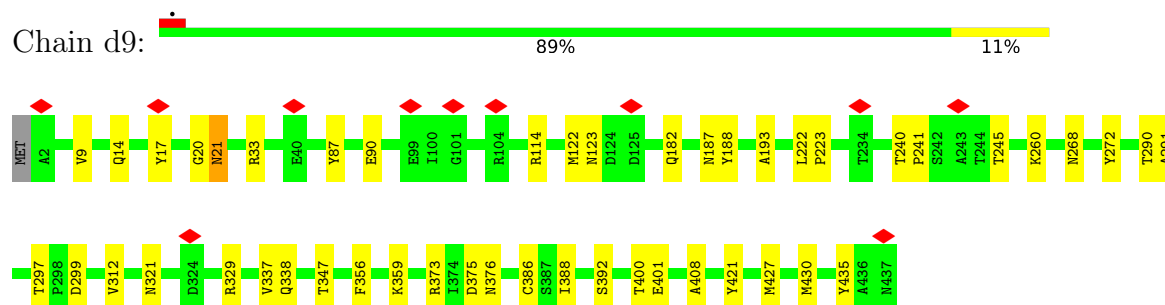
- Molecule 14: Major capsid protein



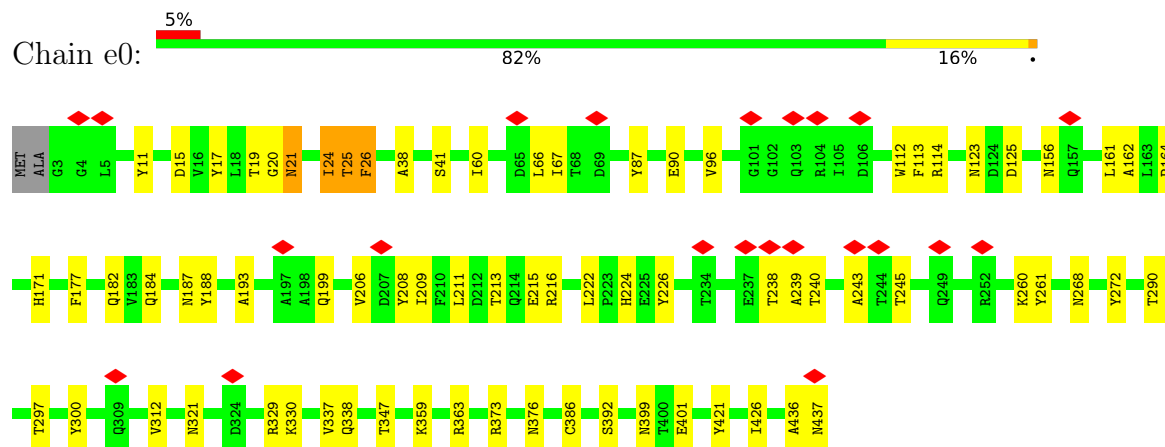
- Molecule 14: Major capsid protein



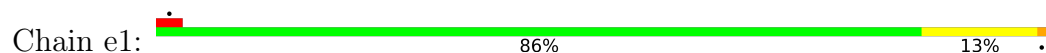
- Molecule 14: Major capsid protein

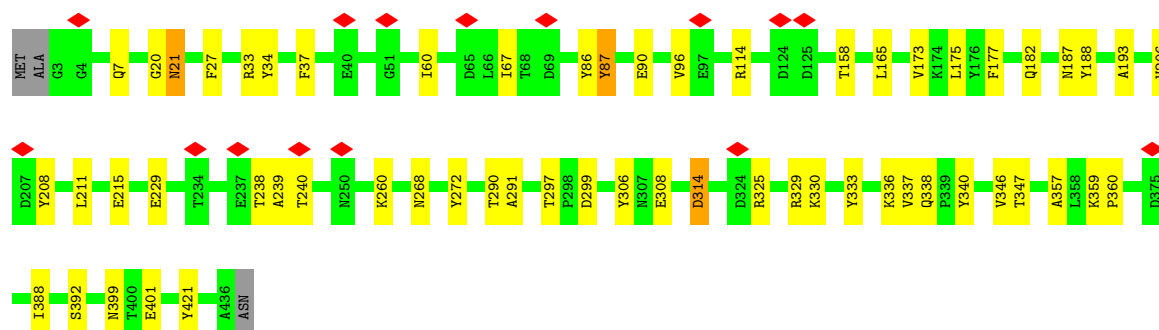


- Molecule 14: Major capsid protein

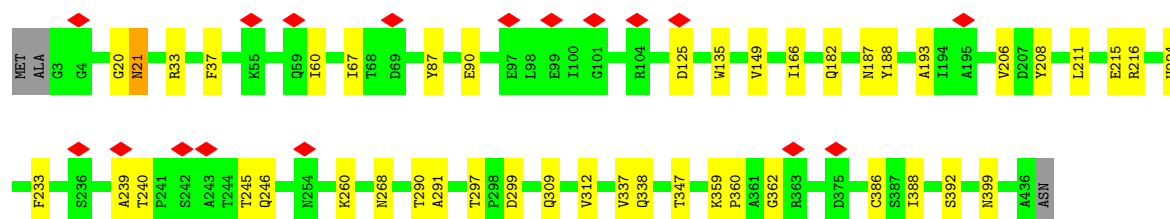
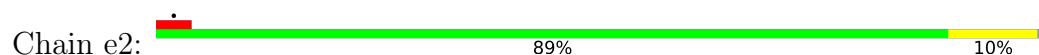


- Molecule 14: Major capsid protein

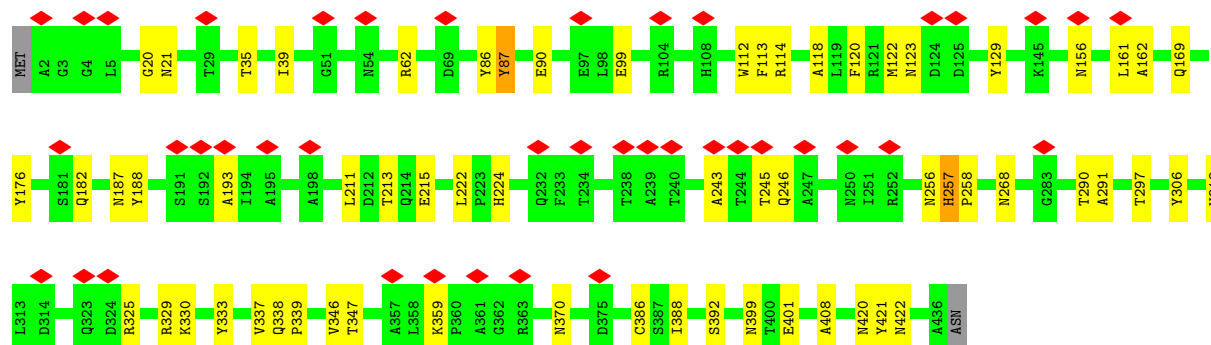
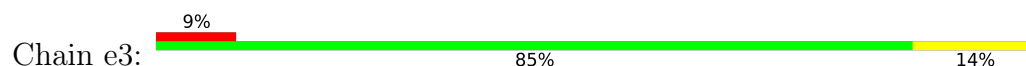




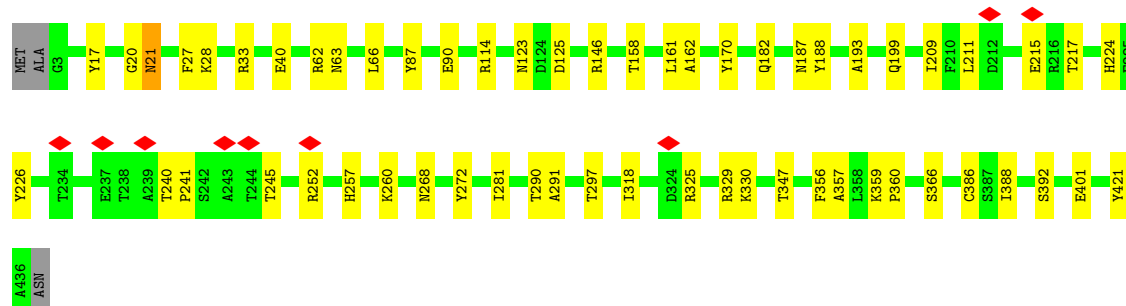
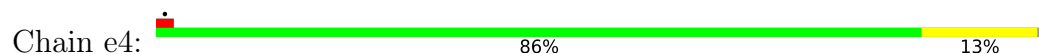
• Molecule 14: Major capsid protein



• Molecule 14: Major capsid protein

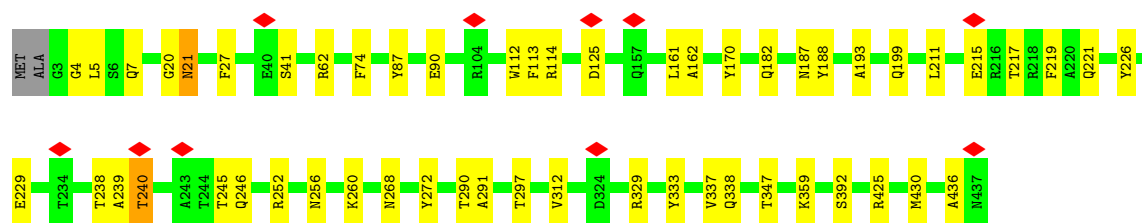


• Molecule 14: Major capsid protein



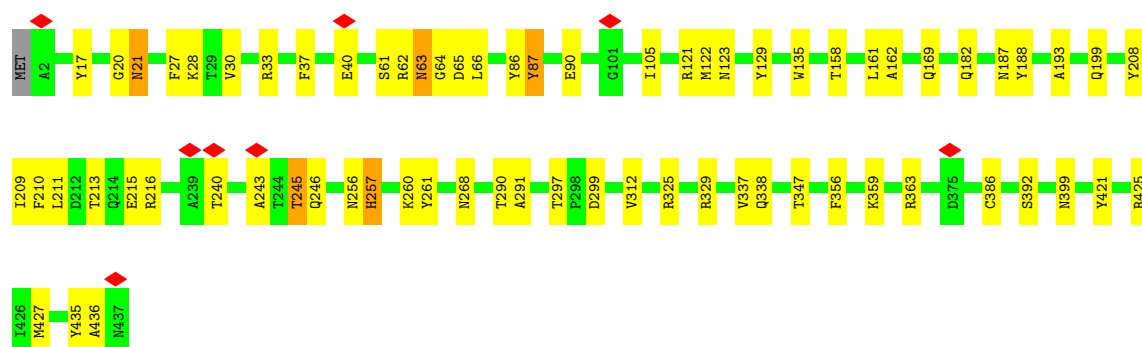
- Molecule 14: Major capsid protein

Chain e5:  87% 12%



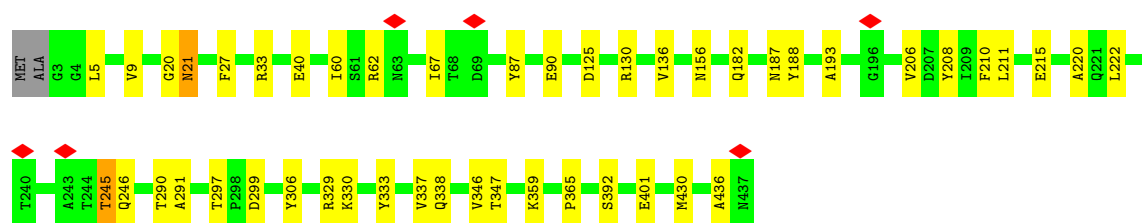
- Molecule 14: Major capsid protein

Chain e6:  84% 15%

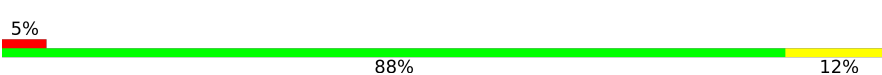


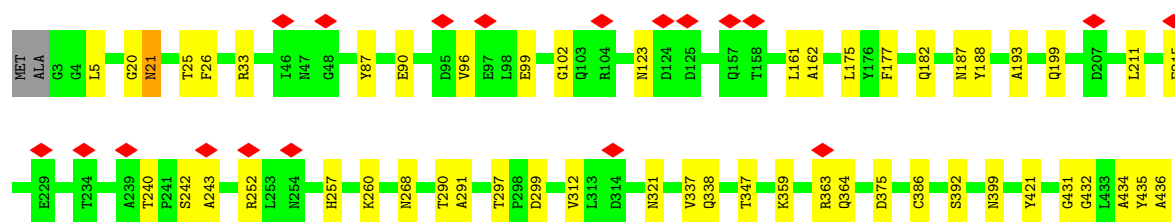
- Molecule 14: Major capsid protein

Chain e7:  89% 10%



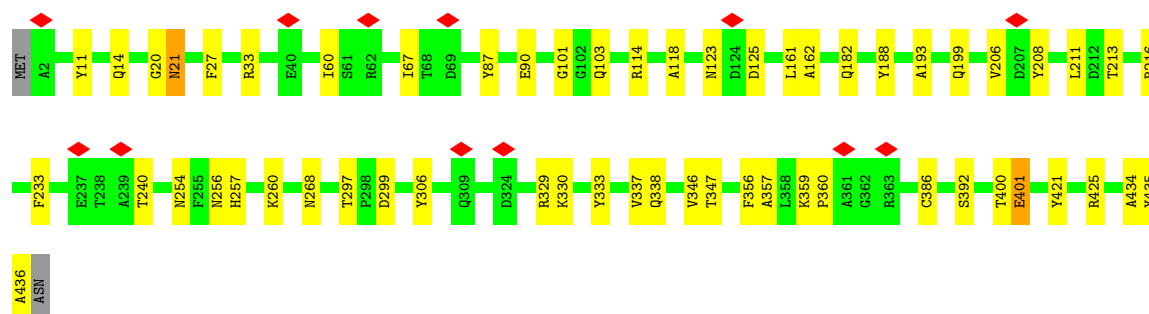
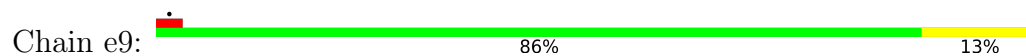
- Molecule 14: Major capsid protein

Chain e8:  5% 88% 12%

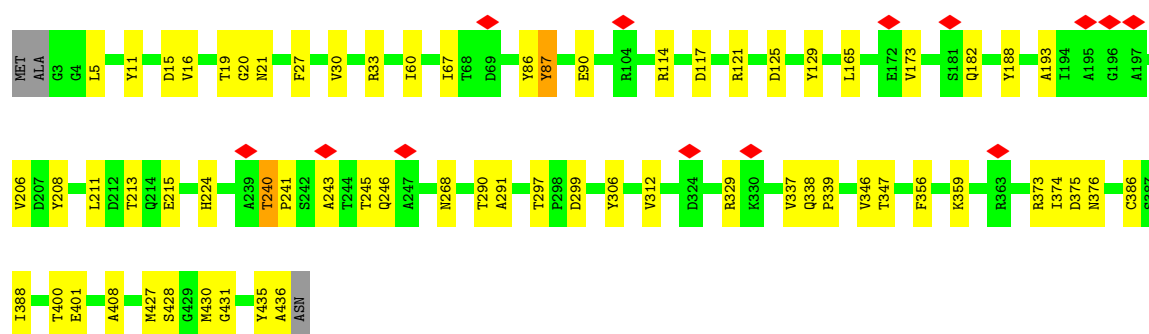
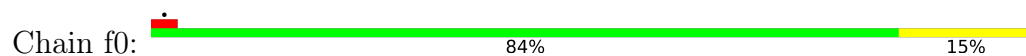




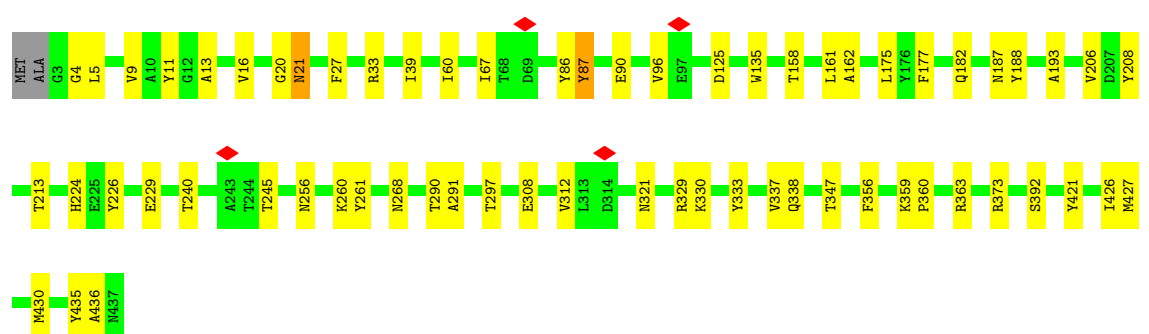
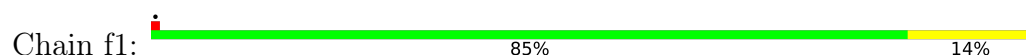
- Molecule 14: Major capsid protein



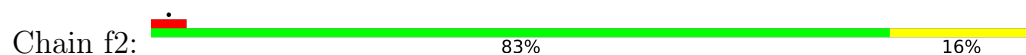
- Molecule 14: Major capsid protein

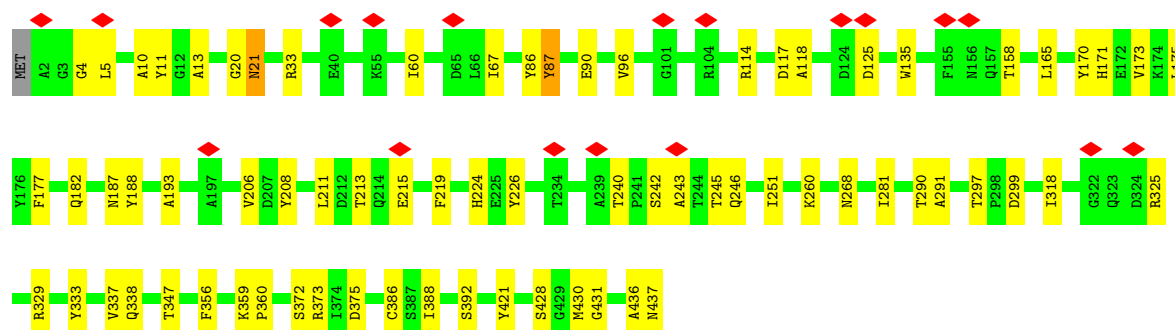


- Molecule 14: Major capsid protein



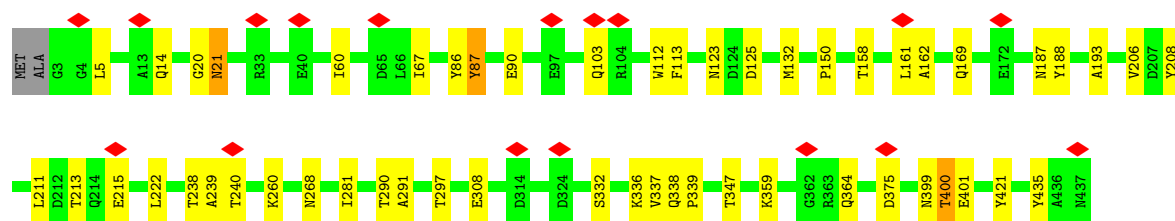
- Molecule 14: Major capsid protein





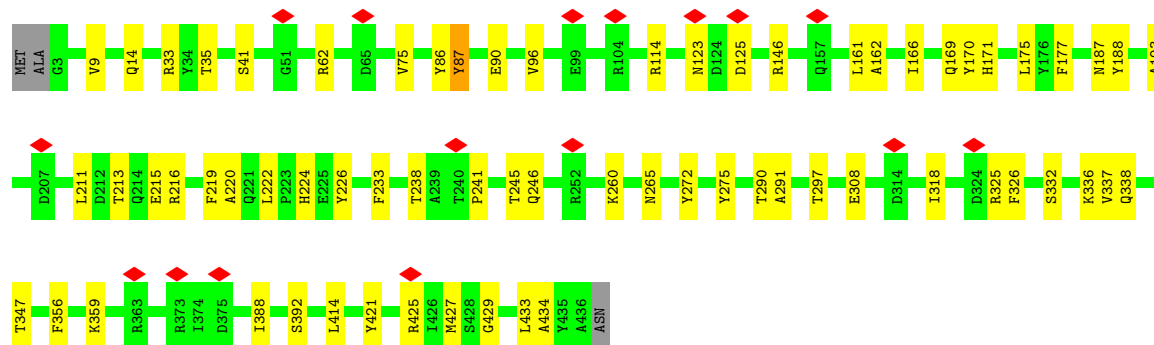
- Molecule 14: Major capsid protein

Chain f3: 87% 11% .



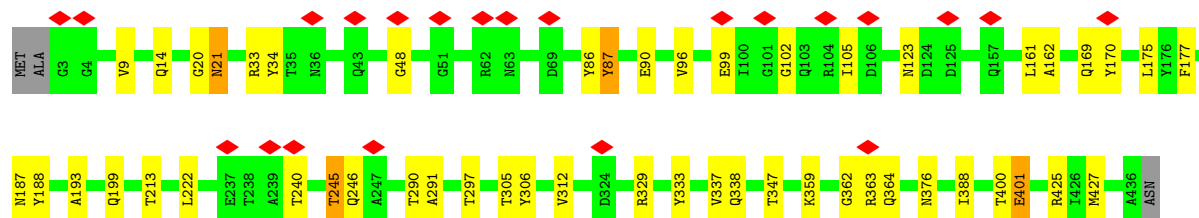
- Molecule 14: Major capsid protein

Chain f4: 84% 15% .

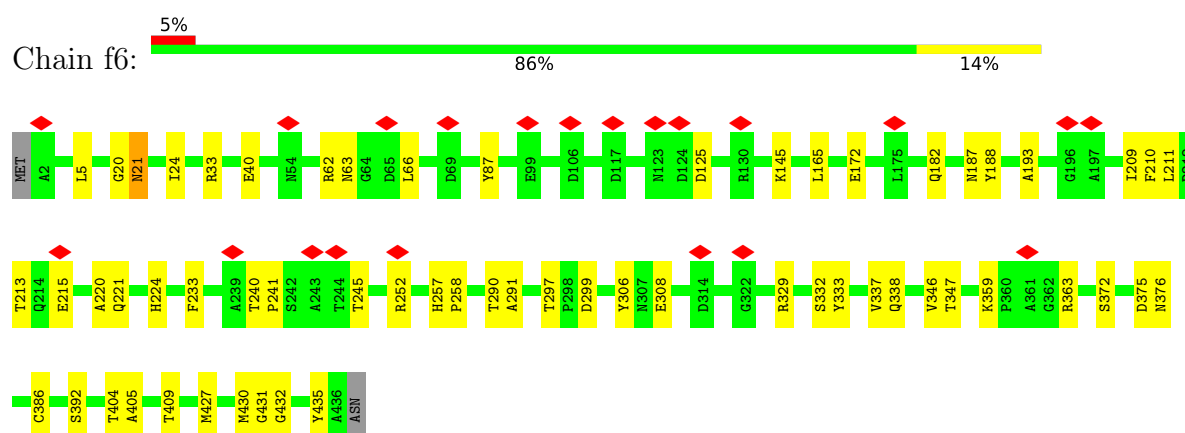


- Molecule 14: Major capsid protein

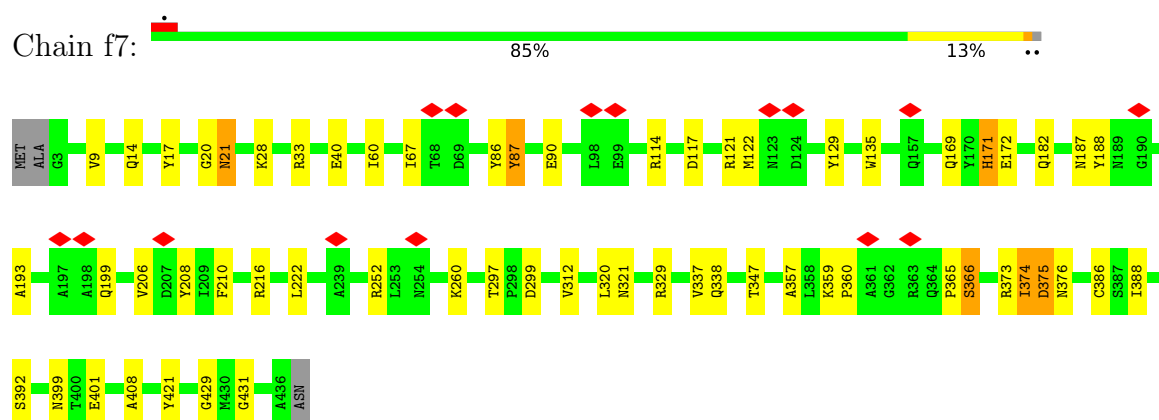
Chain f5: 5% 88% 11% ..



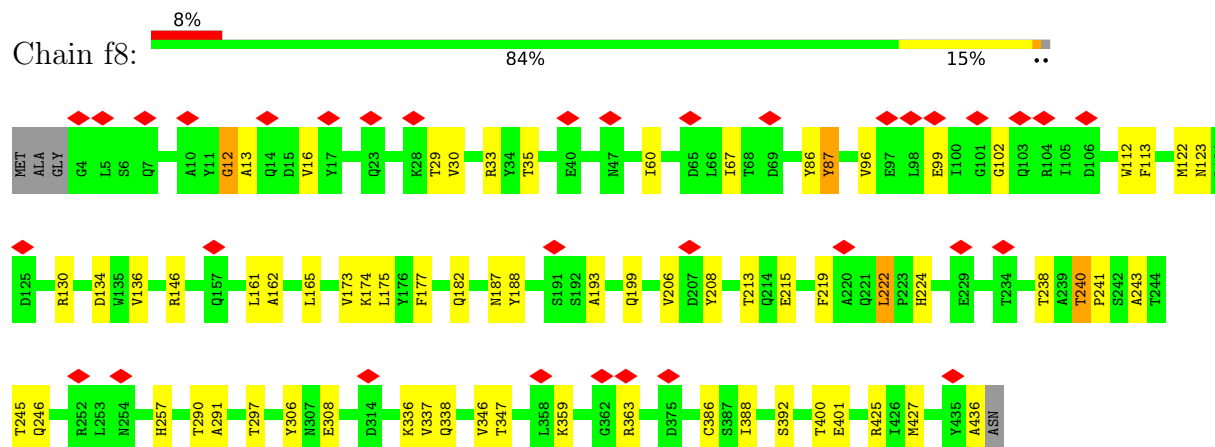
- Molecule 14: Major capsid protein



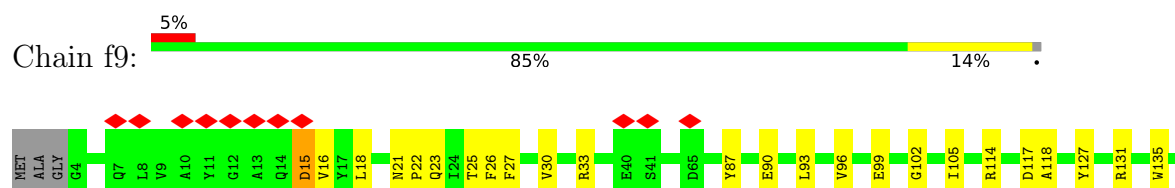
• Molecule 14: Major capsid protein

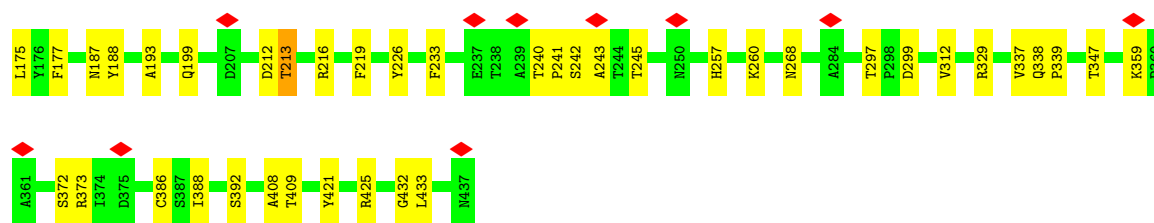


• Molecule 14: Major capsid protein

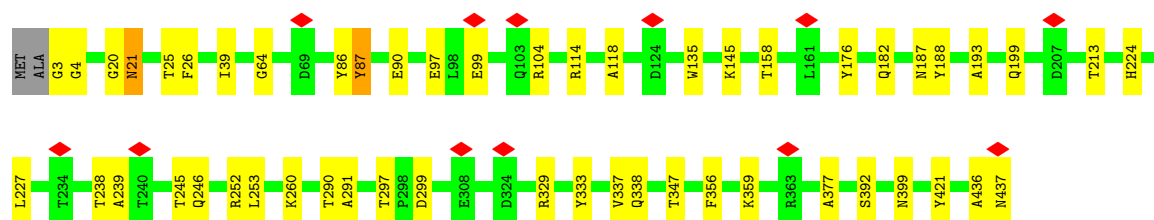


• Molecule 14: Major capsid protein

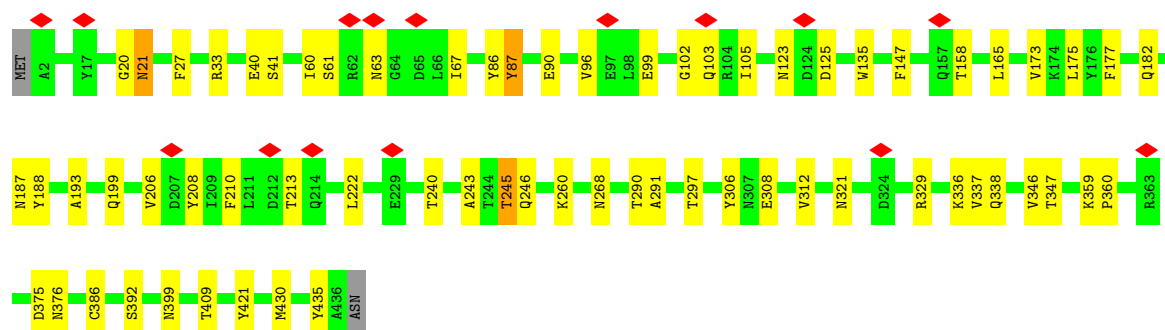
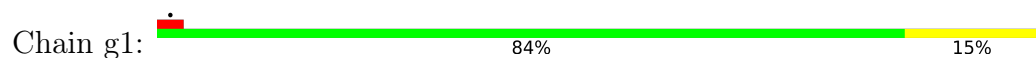




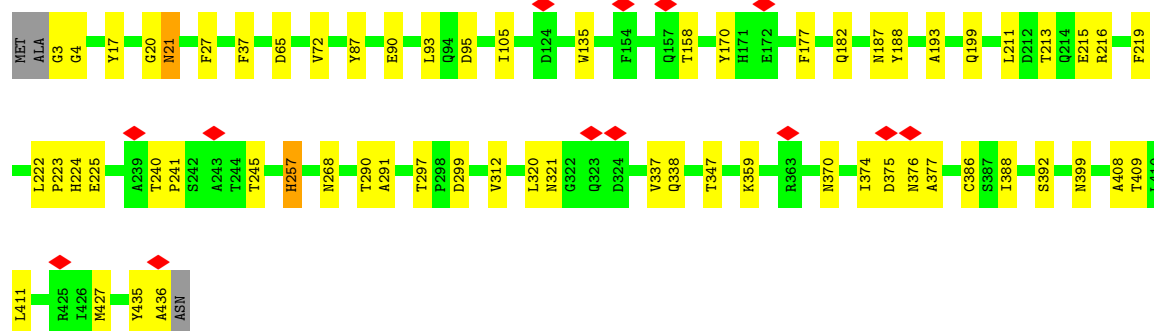
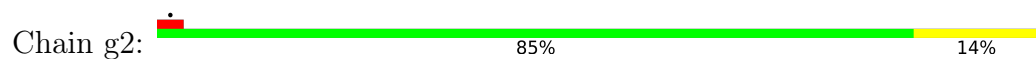
- Molecule 14: Major capsid protein



- Molecule 14: Major capsid protein

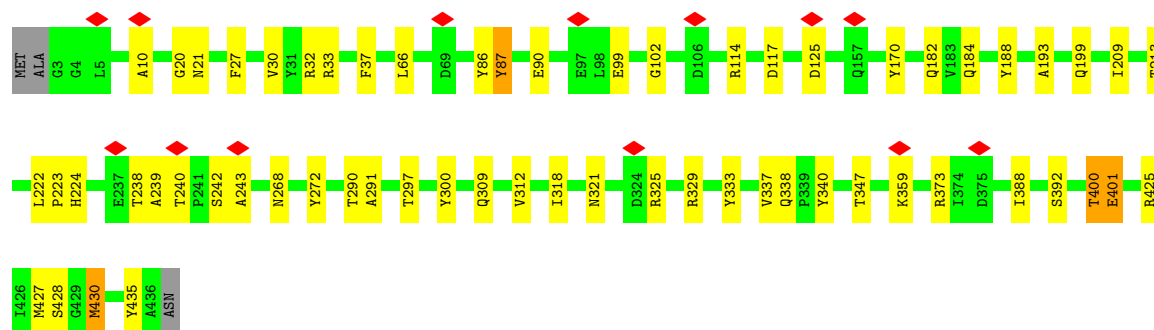


- Molecule 14: Major capsid protein



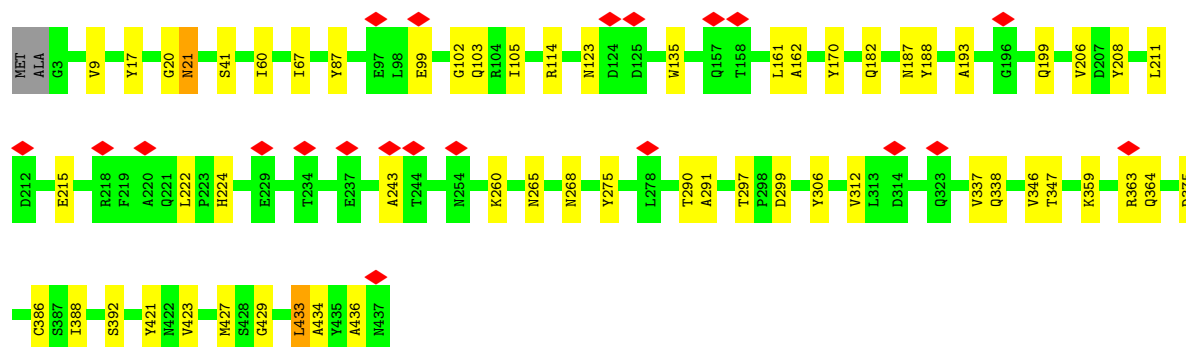
- Molecule 14: Major capsid protein

Chain g3:  85% 13% ..



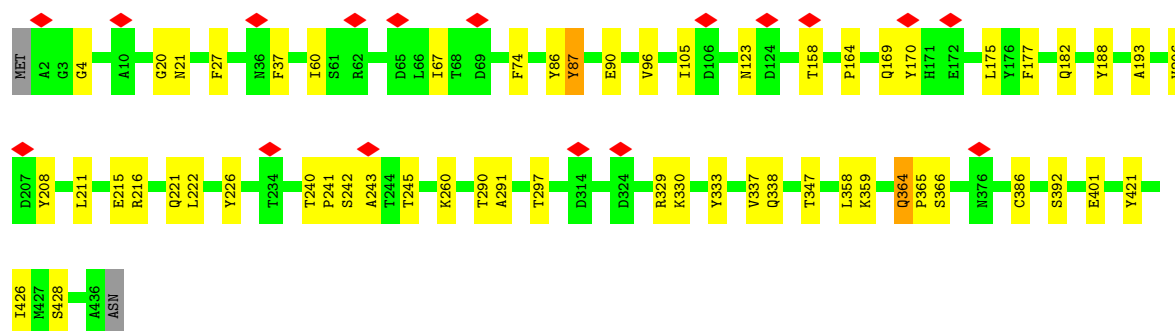
• Molecule 14: Major capsid protein

Chain g4:  5% 86% 13%



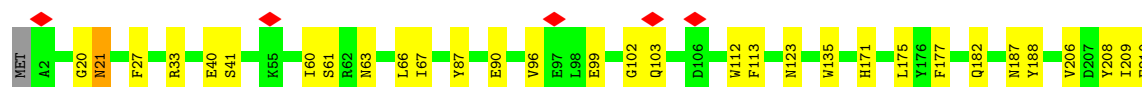
• Molecule 14: Major capsid protein

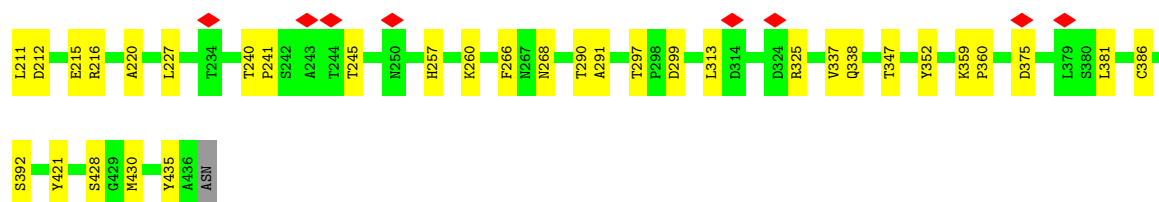
Chain g5:  86% 13%



• Molecule 14: Major capsid protein

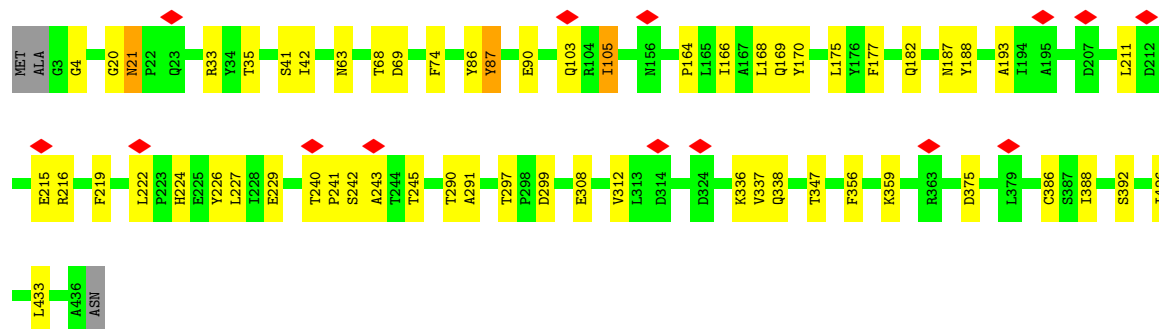
Chain g6:  85% 14%





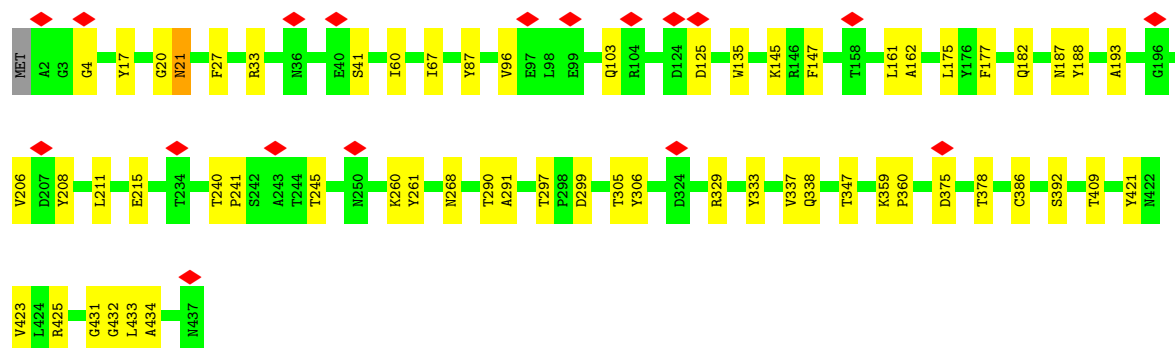
• Molecule 14: Major capsid protein

Chain g7: 86% 13% ..



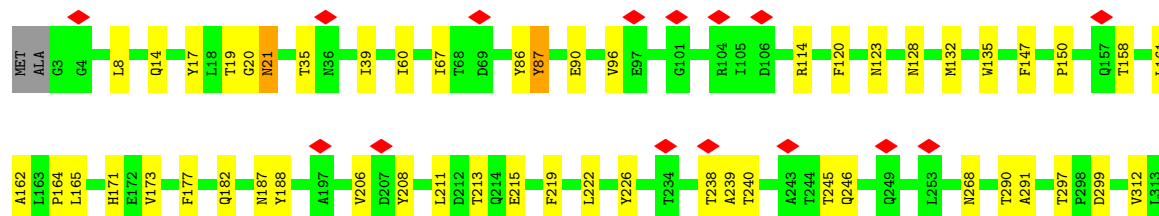
• Molecule 14: Major capsid protein

Chain g8: 86% 13%



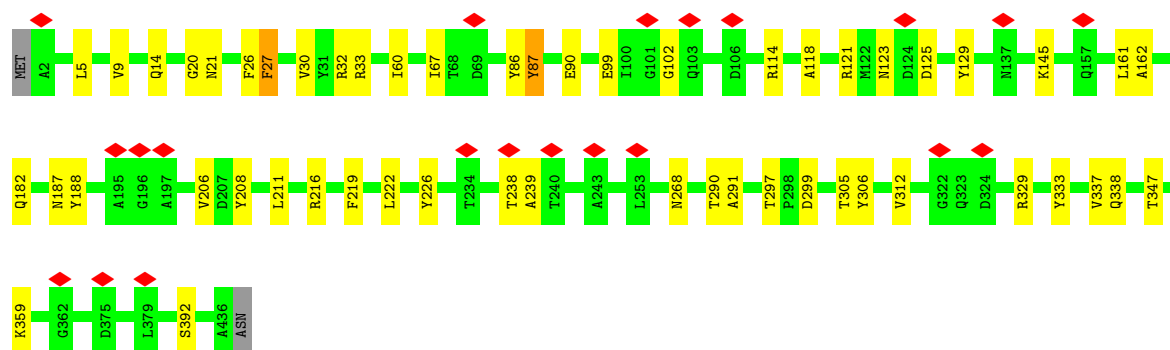
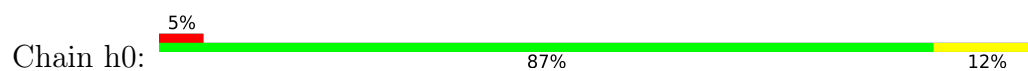
• Molecule 14: Major capsid protein

Chain g9: 5% 84% 15%

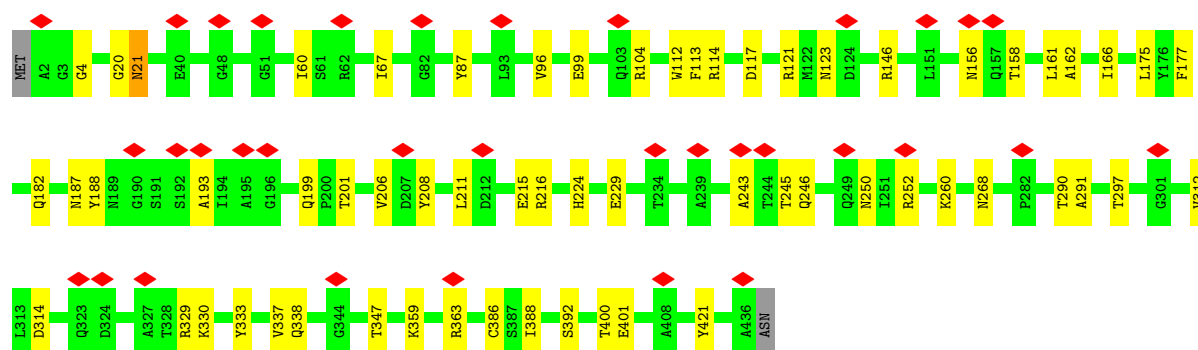
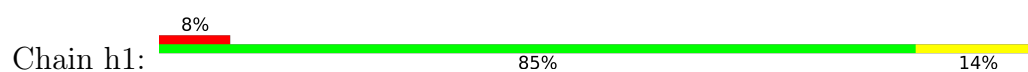




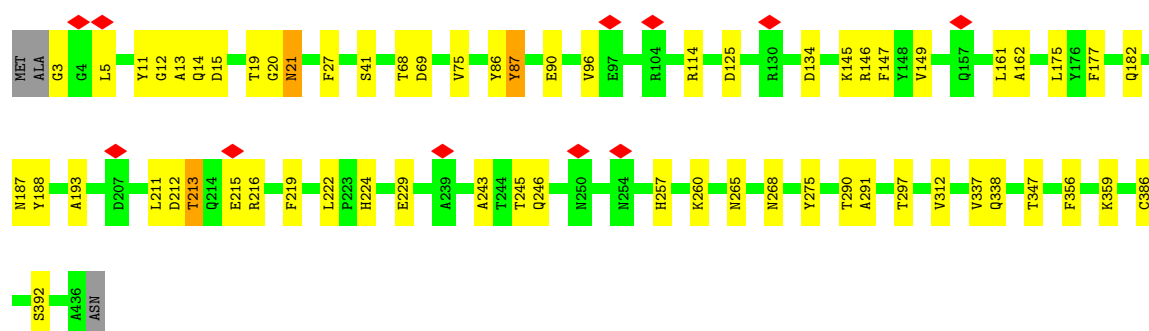
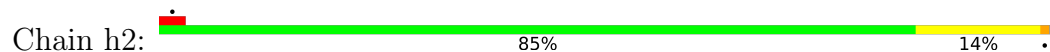
- Molecule 14: Major capsid protein



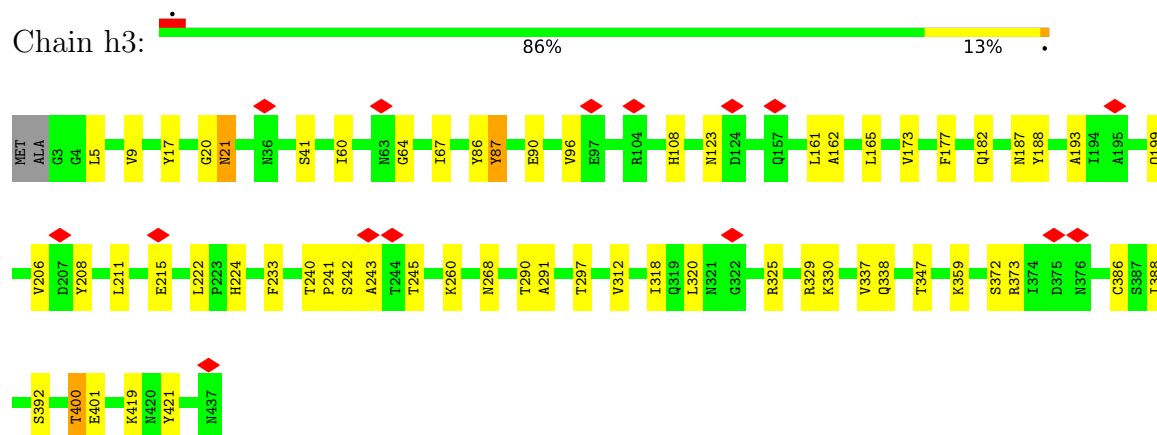
- Molecule 14: Major capsid protein



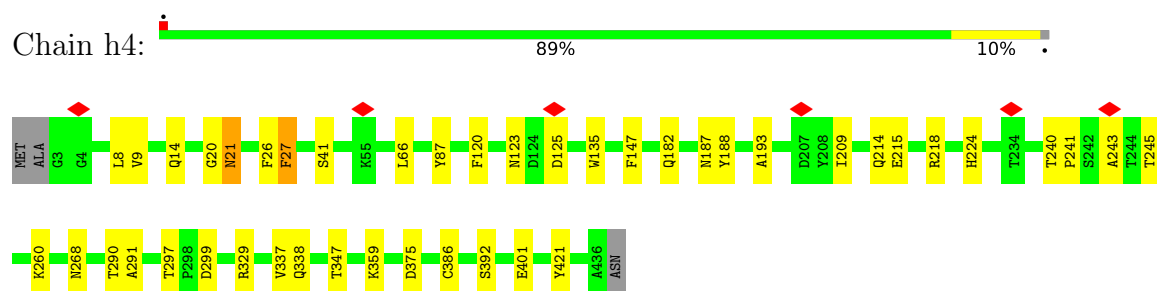
- Molecule 14: Major capsid protein



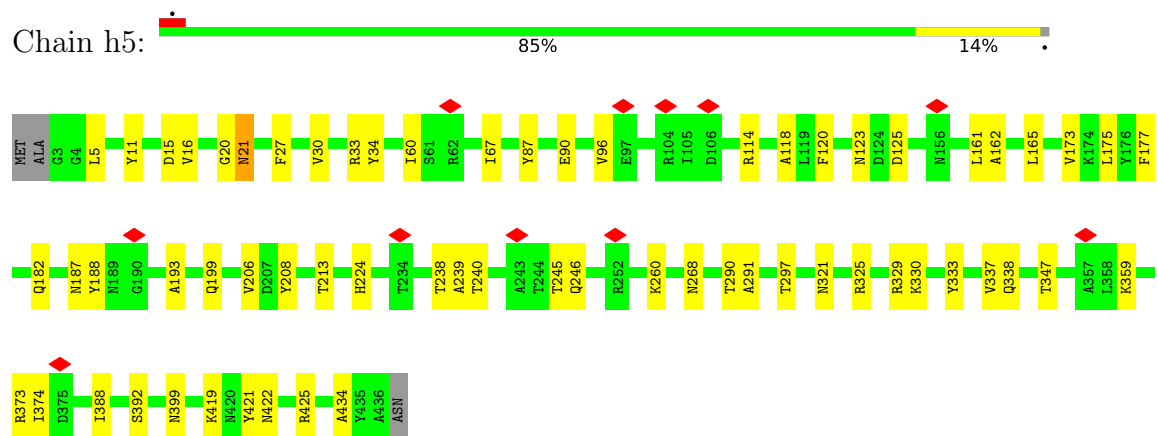
- Molecule 14: Major capsid protein



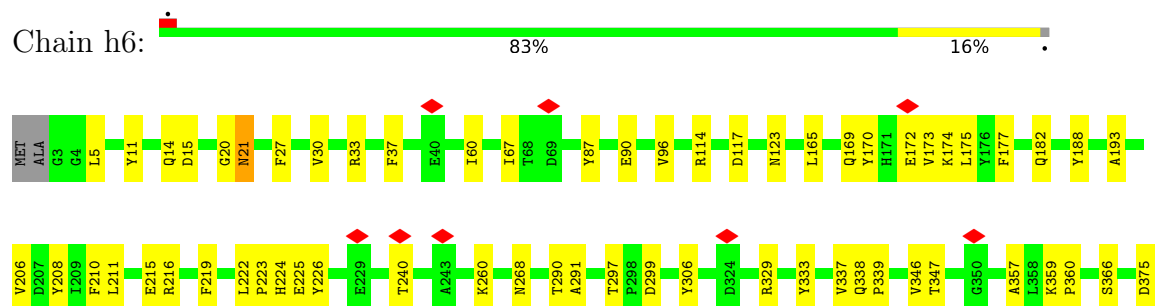
- Molecule 14: Major capsid protein

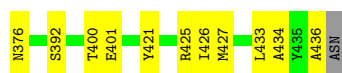


- Molecule 14: Major capsid protein

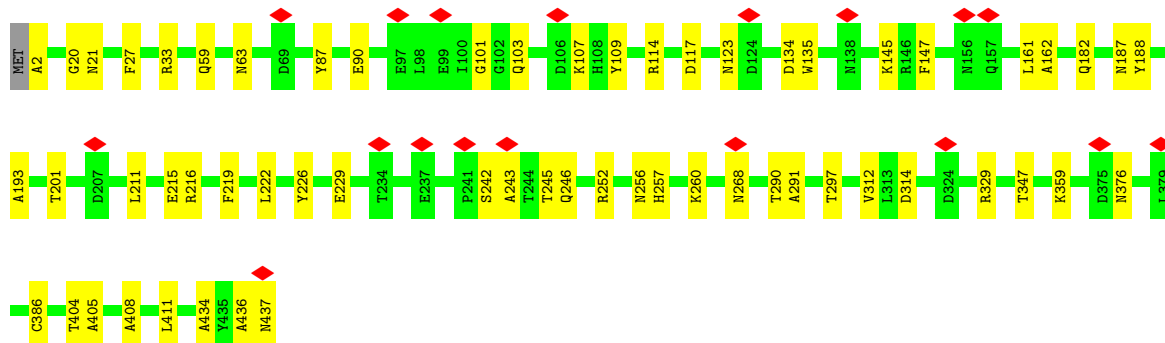
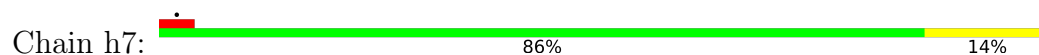


- Molecule 14: Major capsid protein

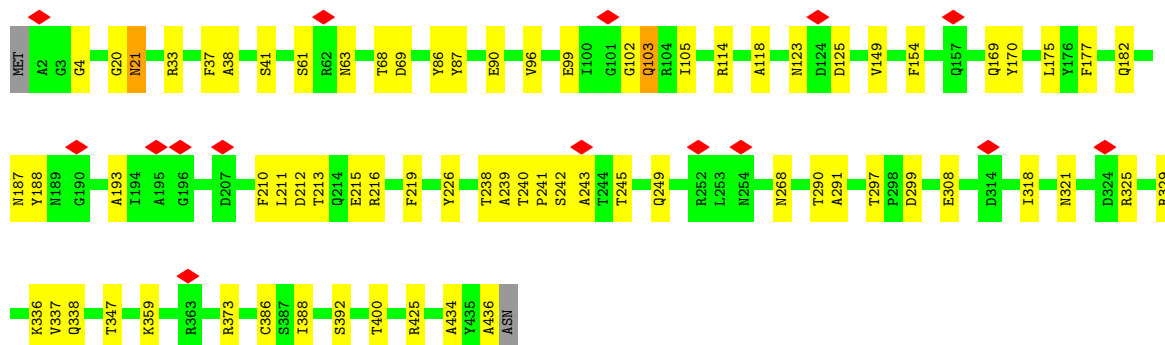
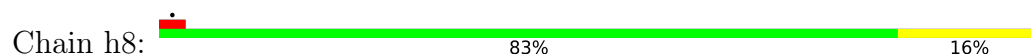




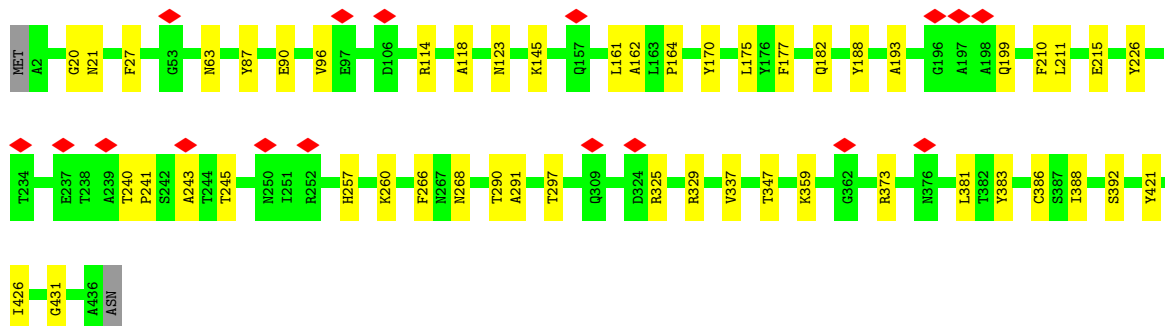
- Molecule 14: Major capsid protein



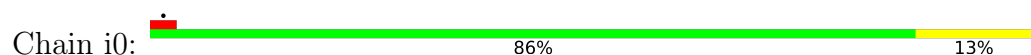
- Molecule 14: Major capsid protein

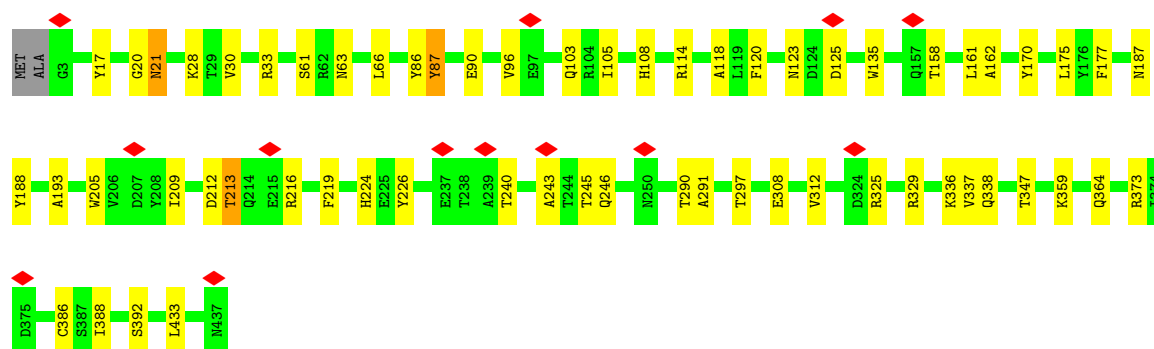


- Molecule 14: Major capsid protein

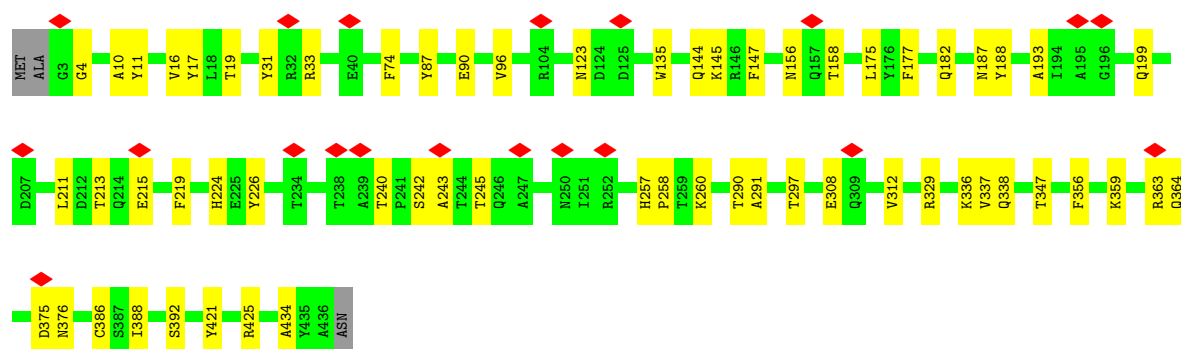
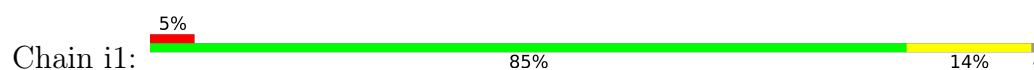


- Molecule 14: Major capsid protein

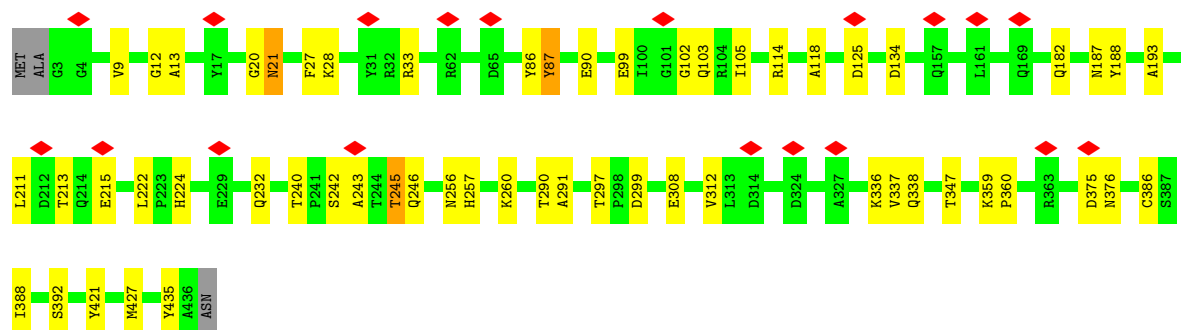
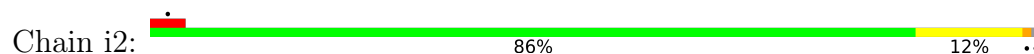




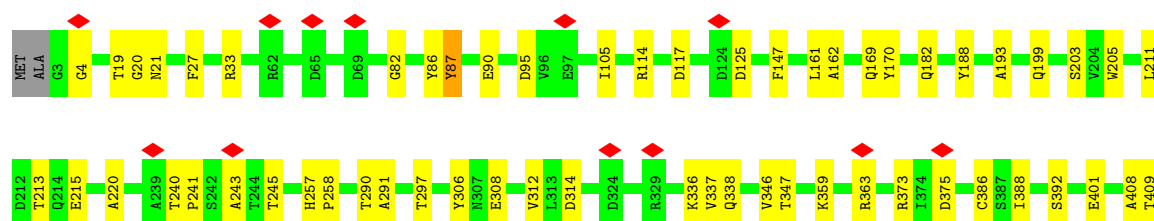
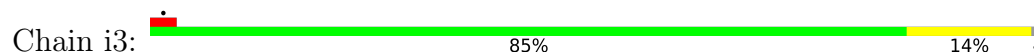
• Molecule 14: Major capsid protein



• Molecule 14: Major capsid protein

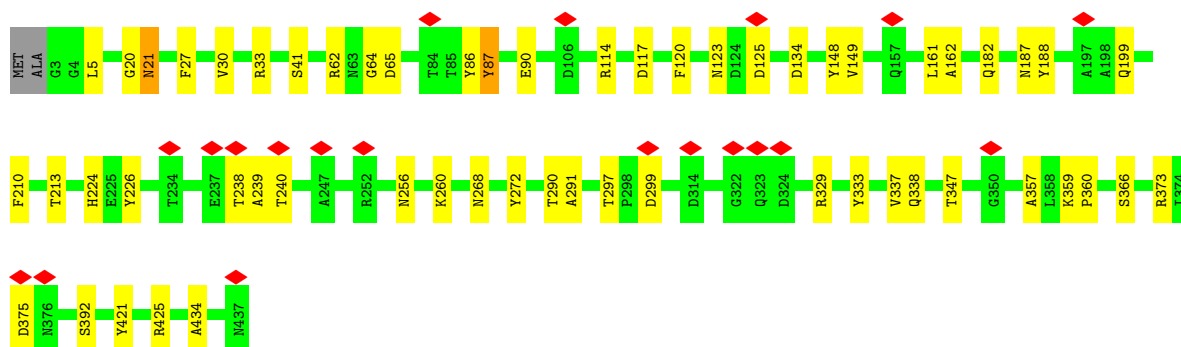
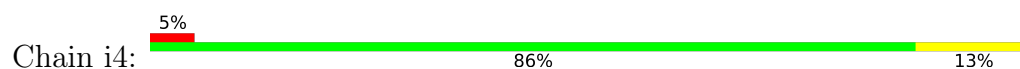


• Molecule 14: Major capsid protein

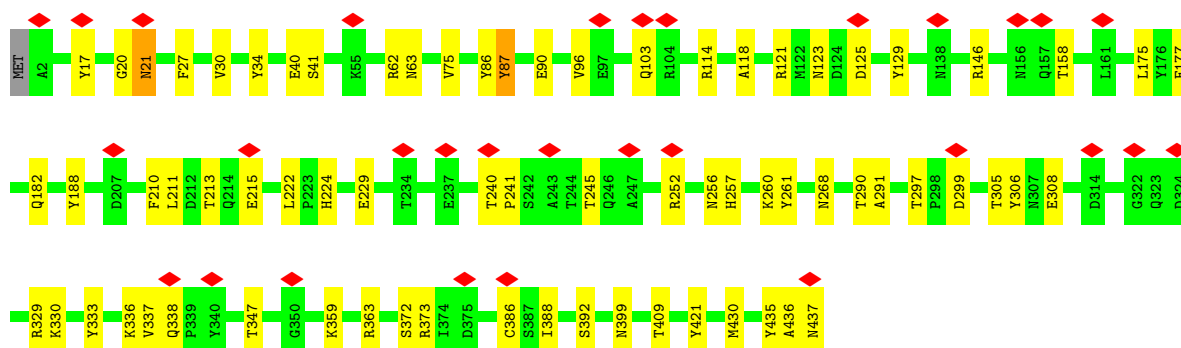
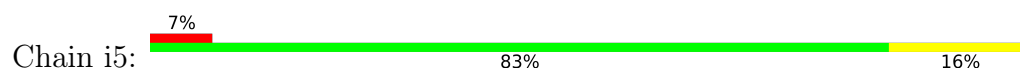




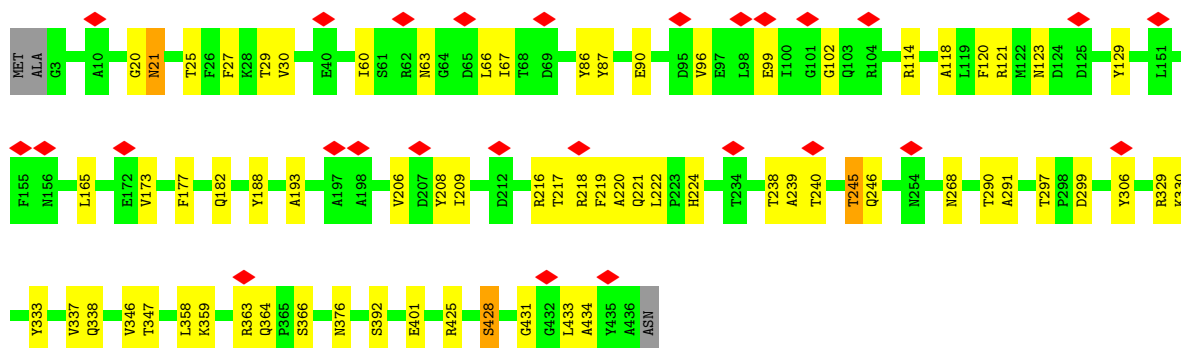
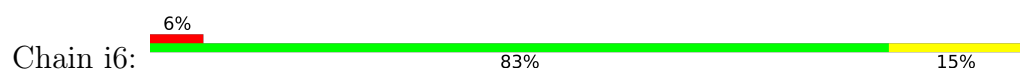
- Molecule 14: Major capsid protein



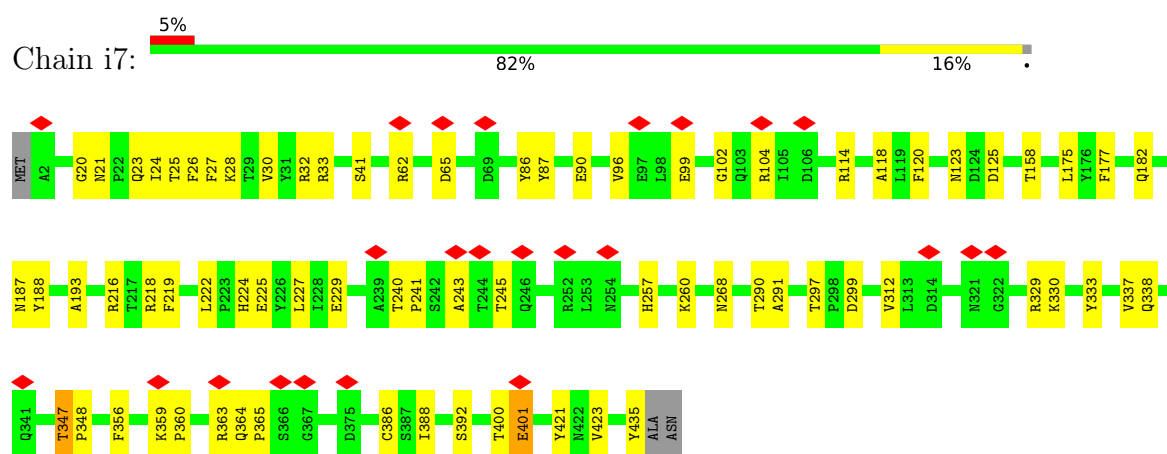
- Molecule 14: Major capsid protein



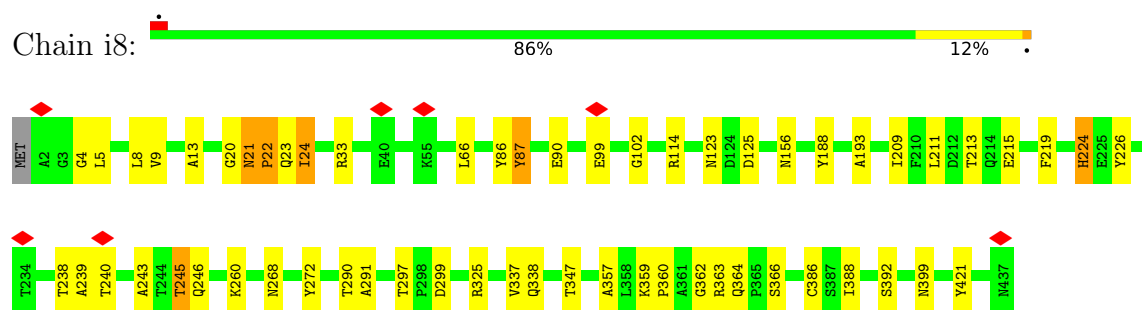
- Molecule 14: Major capsid protein



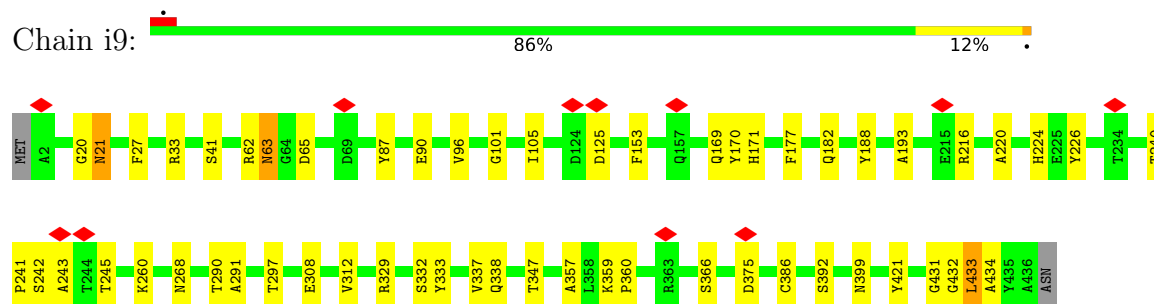
- Molecule 14: Major capsid protein



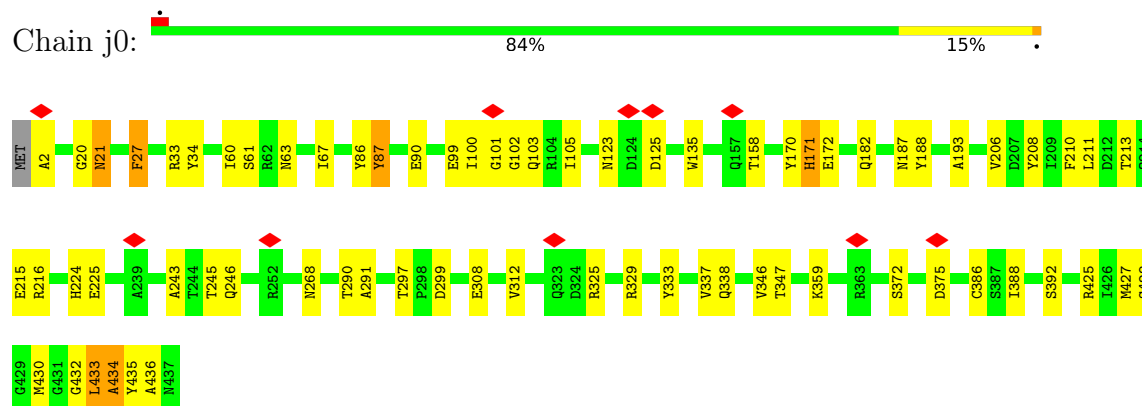
- Molecule 14: Major capsid protein



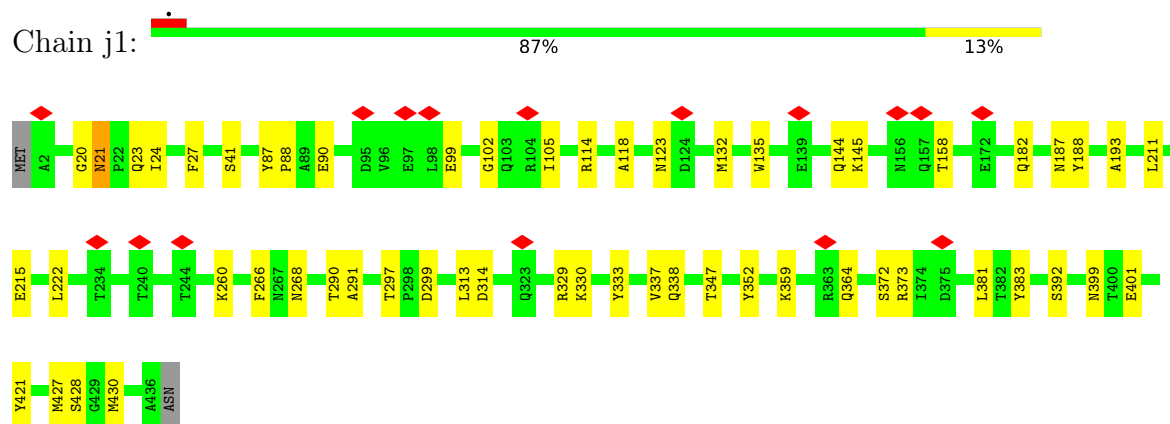
- Molecule 14: Major capsid protein



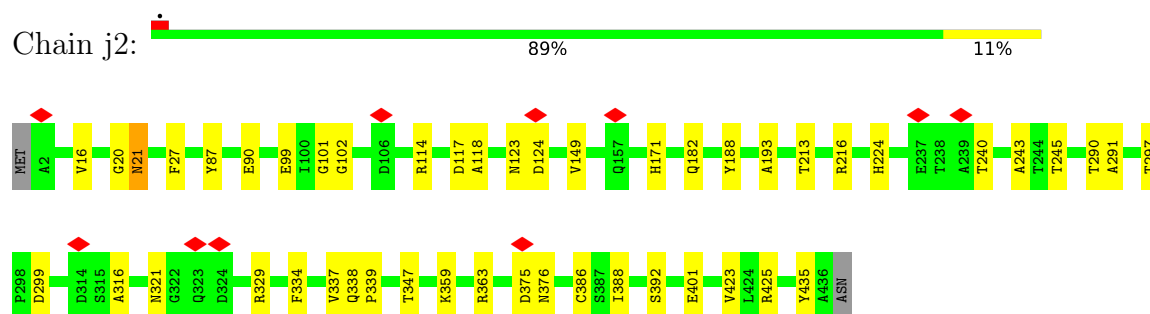
- Molecule 14: Major capsid protein



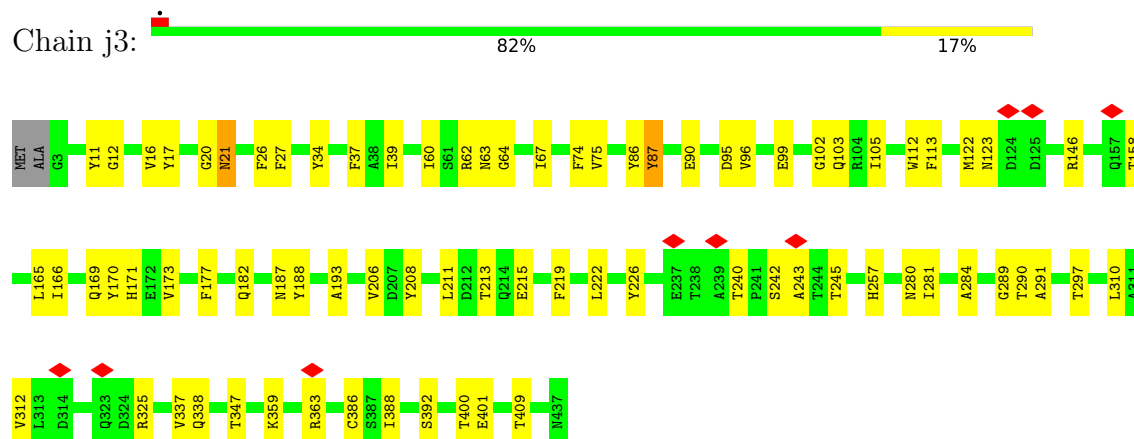
- Molecule 14: Major capsid protein



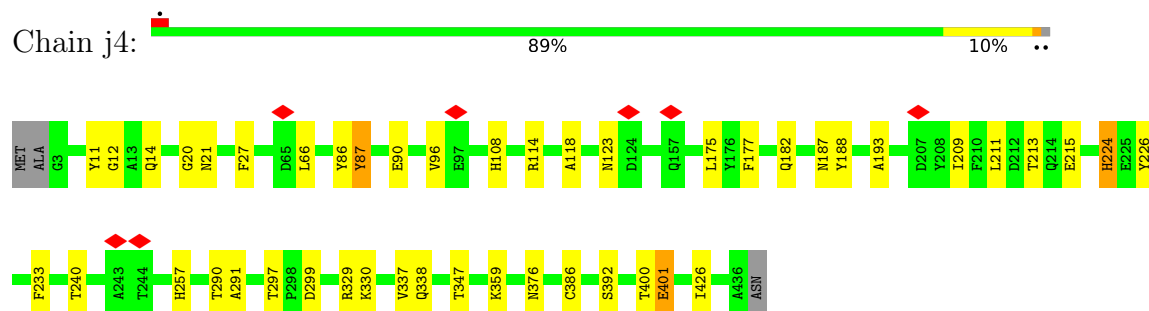
- Molecule 14: Major capsid protein



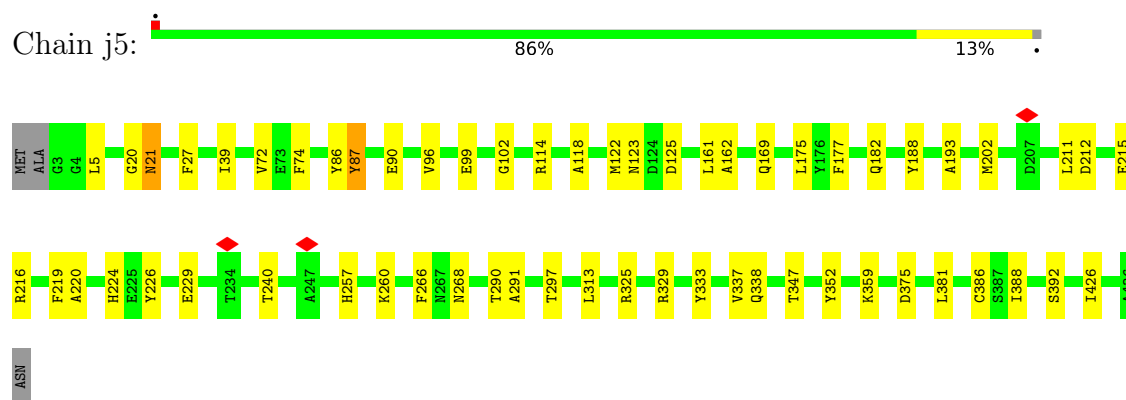
- Molecule 14: Major capsid protein



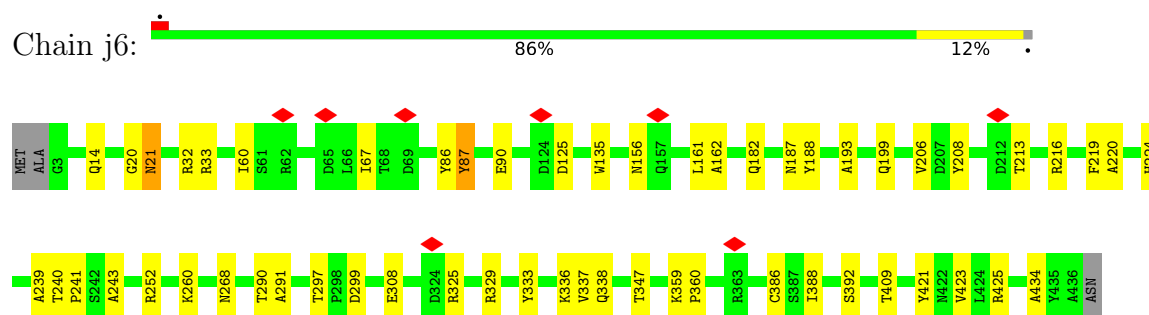
- Molecule 14: Major capsid protein



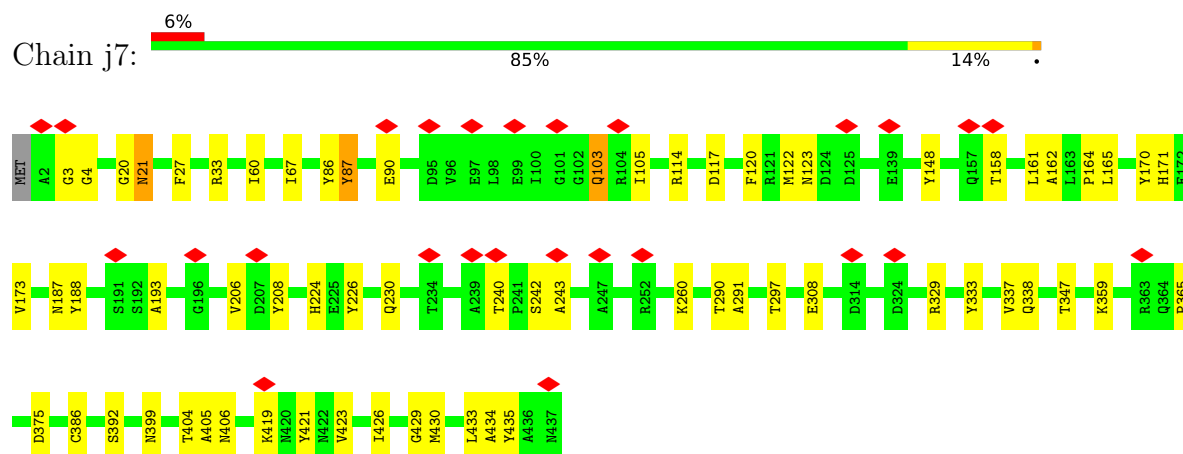
- Molecule 14: Major capsid protein



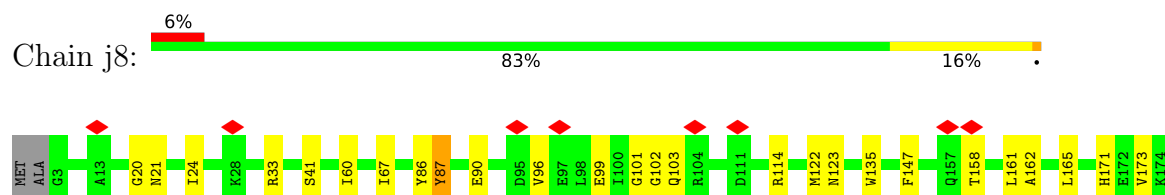
- Molecule 14: Major capsid protein

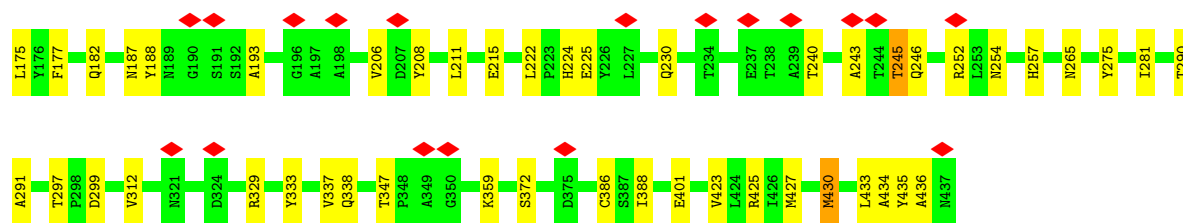


- Molecule 14: Major capsid protein

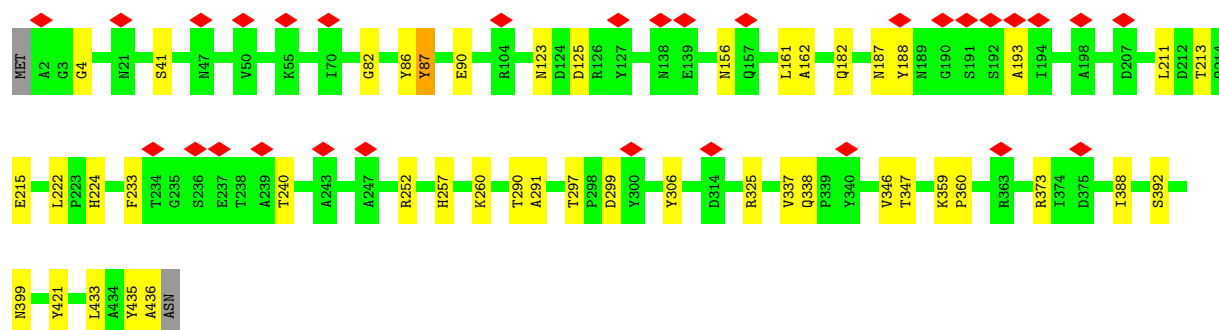
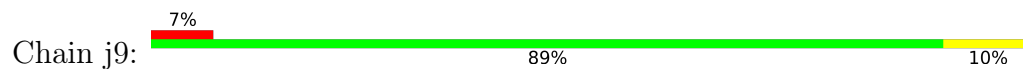


- Molecule 14: Major capsid protein

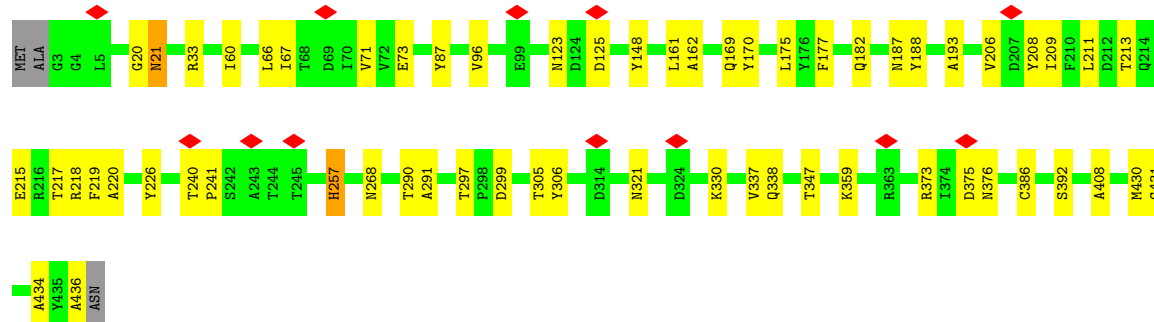
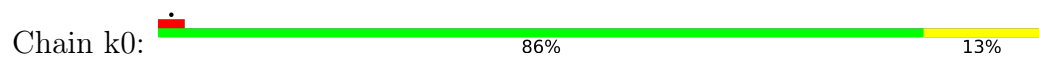




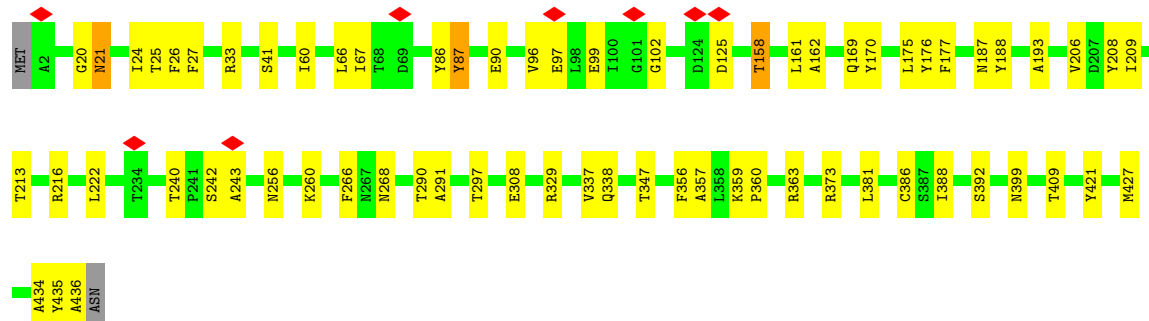
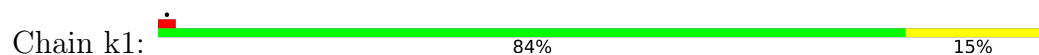
• Molecule 14: Major capsid protein



• Molecule 14: Major capsid protein

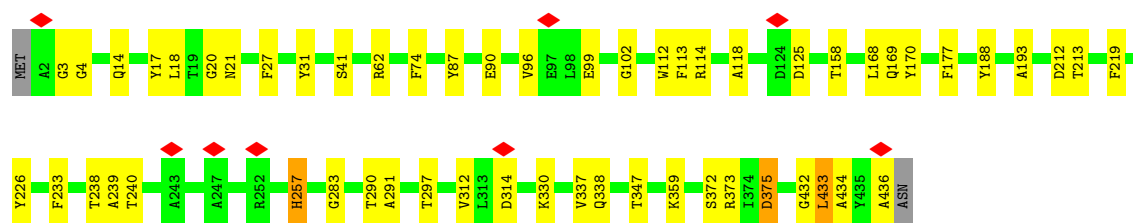


• Molecule 14: Major capsid protein



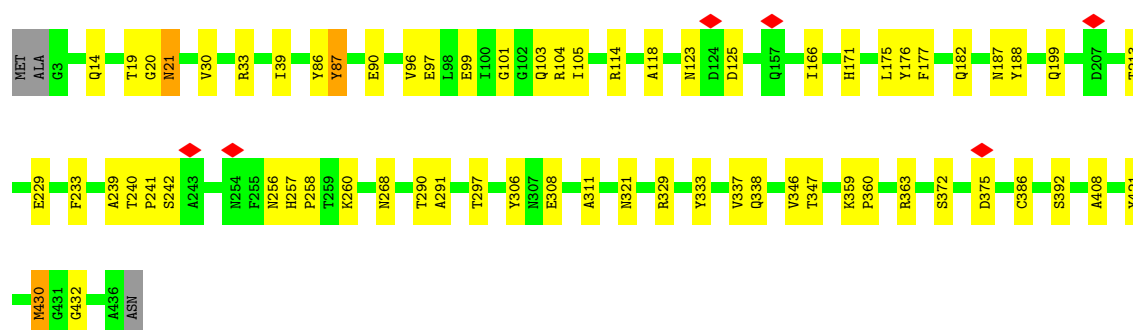
- Molecule 14: Major capsid protein

Chain k2:  87% 12%



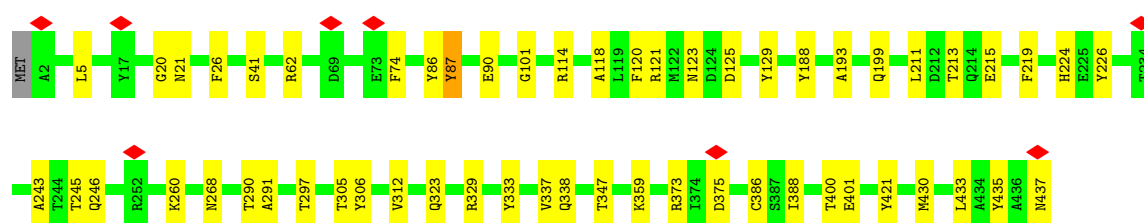
- Molecule 14: Major capsid protein

Chain k3:  84% 14%



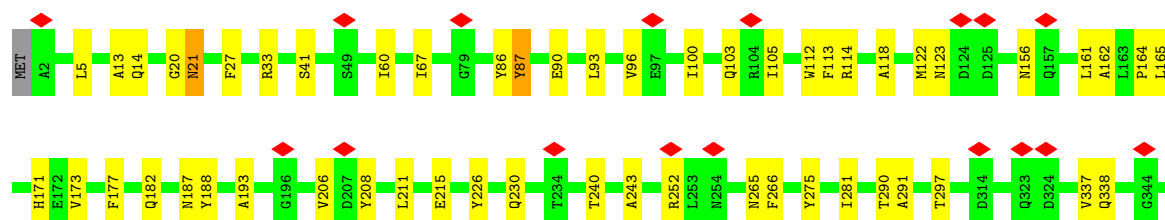
- Molecule 14: Major capsid protein

Chain k4:  87% 13%



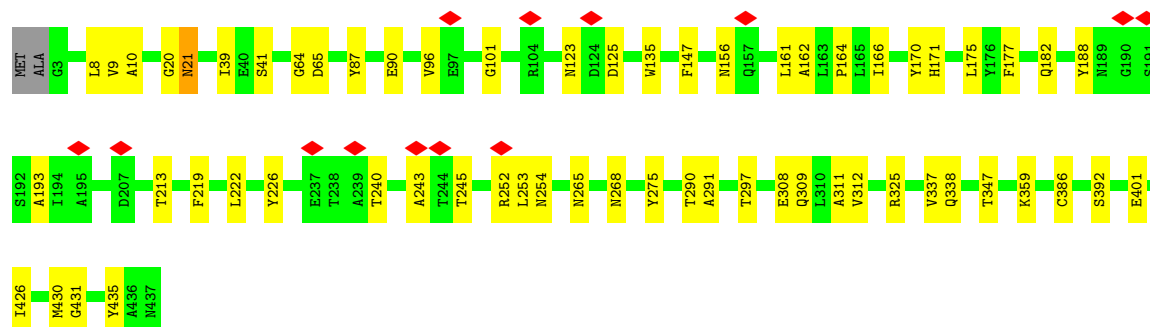
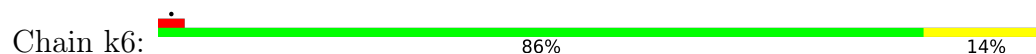
- Molecule 14: Major capsid protein

Chain k5:  5% 84% 15%

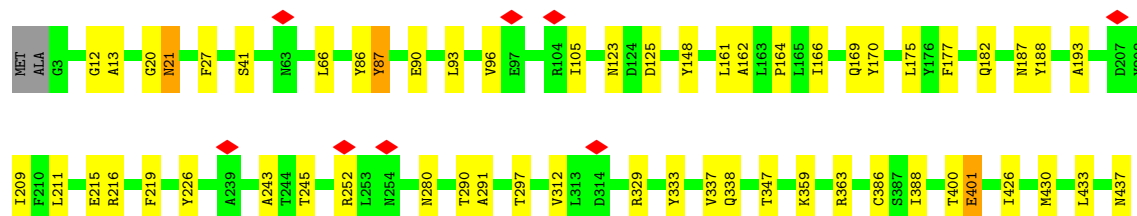
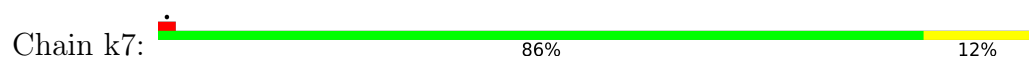




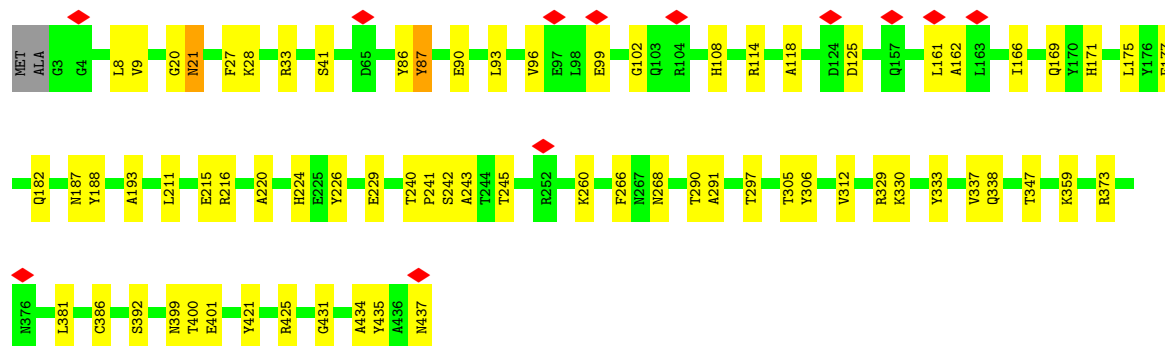
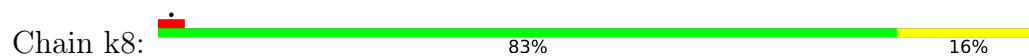
- Molecule 14: Major capsid protein



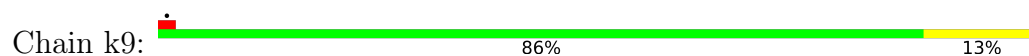
- Molecule 14: Major capsid protein

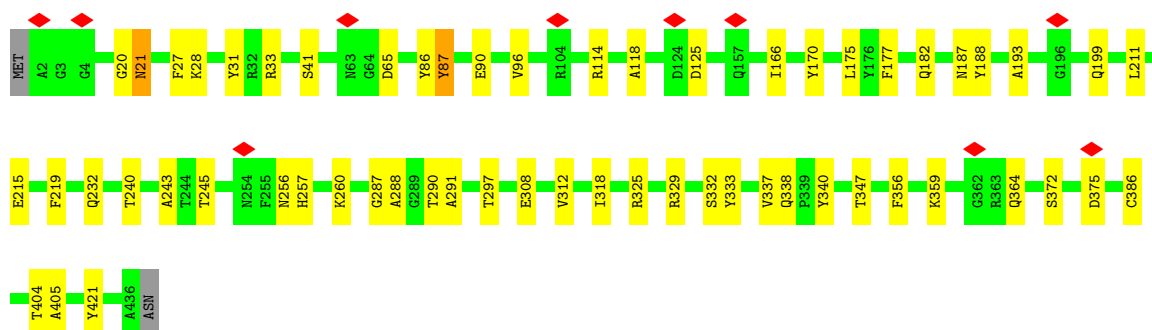


- Molecule 14: Major capsid protein

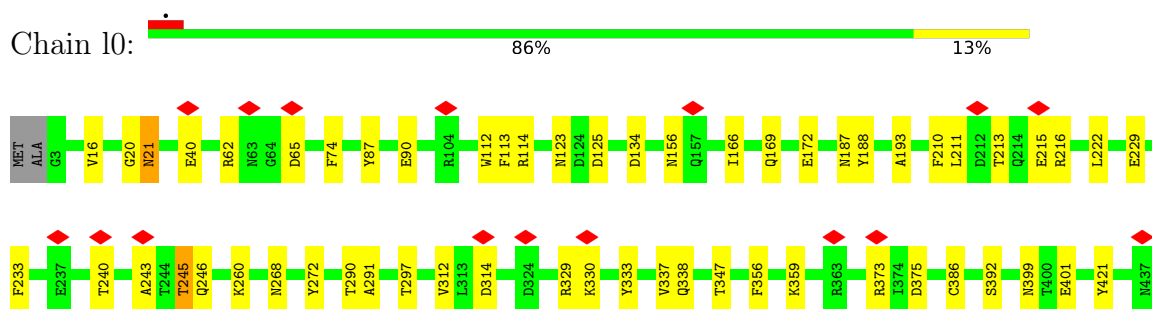


- Molecule 14: Major capsid protein

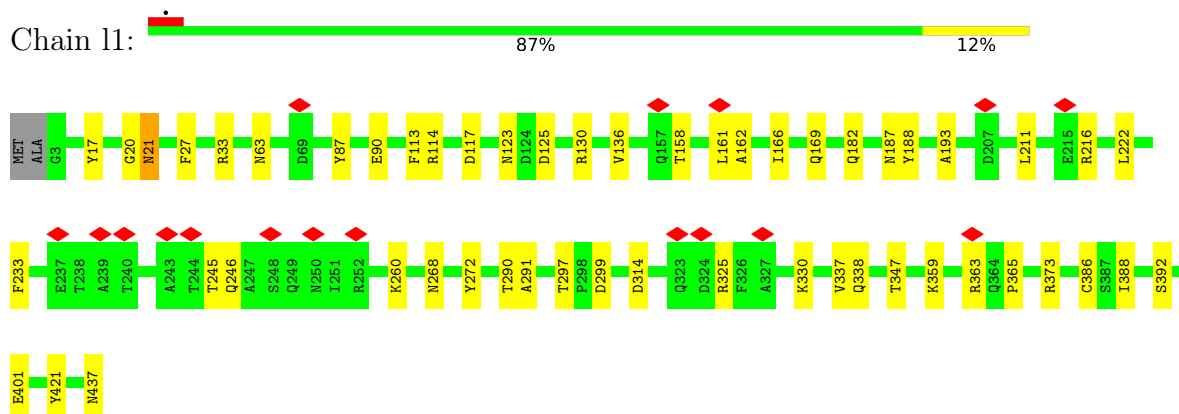




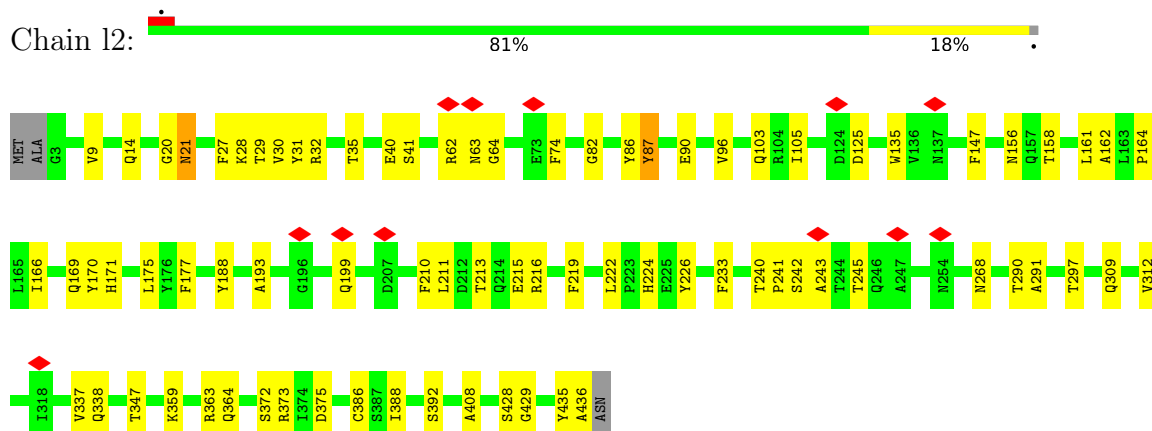
- Molecule 14: Major capsid protein



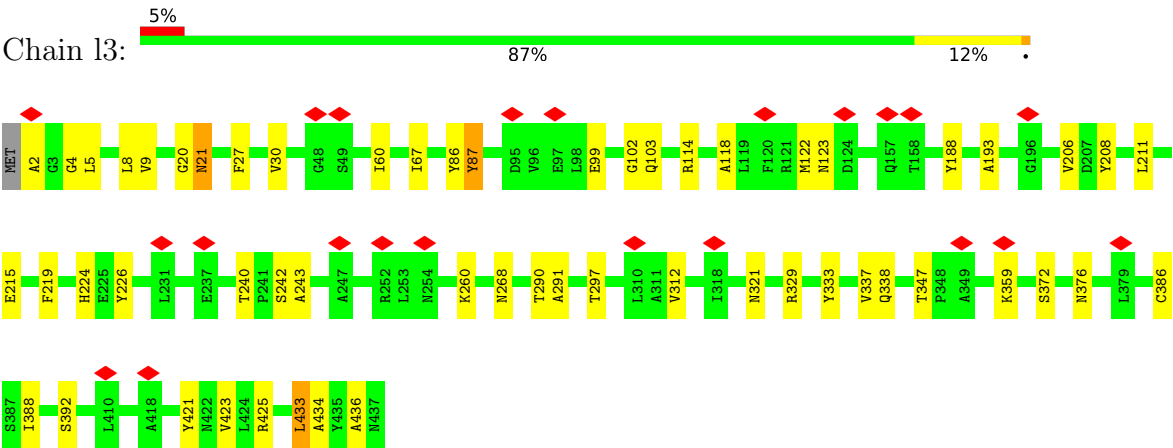
- Molecule 14: Major capsid protein



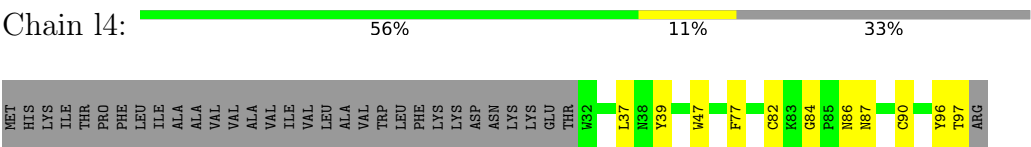
- Molecule 14: Major capsid protein



• Molecule 14: Major capsid protein



• Molecule 15: P13



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	13000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	24.4	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	69.604	Depositor
Minimum map value	-56.026	Depositor
Average map value	0.028	Depositor
Map value standard deviation	2.763	Depositor
Recommended contour level	7	Depositor
Map size ($\text{\AA}$)	1944.0, 1944.0, 1944.0	wwPDB
Map dimensions	1200, 1200, 1200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.62, 1.62, 1.62	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	a0	0.85	0/741	1.06	0/1006
2	a1	0.62	2/734 (0.3%)	1.29	6/1011 (0.6%)
3	a2	0.59	1/667 (0.1%)	1.08	3/920 (0.3%)
3	a3	0.28	0/497	0.64	0/688
4	a4	0.96	0/1124	1.45	14/1543 (0.9%)
5	a5	0.36	0/1365	0.81	0/1883
6	a6	0.96	1/1220 (0.1%)	1.40	21/1677 (1.3%)
7	a7	0.89	0/559	1.57	15/771 (1.9%)
8	a8	0.97	0/1014	1.47	8/1402 (0.6%)
9	a9	0.59	0/320	1.00	0/446
9	b0	0.46	0/408	0.96	1/567 (0.2%)
9	b1	0.55	0/379	0.92	0/526
9	b2	0.54	0/360	0.94	1/500 (0.2%)
9	b3	0.46	0/345	0.90	0/481
9	b4	0.54	0/360	0.90	0/500
9	b5	0.70	0/377	1.14	0/523
9	b7	0.47	0/386	0.89	1/533 (0.2%)
9	b8	0.45	0/391	0.83	0/543
9	c0	0.65	0/346	0.98	0/480
9	c1	0.51	0/344	1.05	0/476
9	l5	0.49	0/404	0.88	0/559
10	b6	0.36	0/3289	0.76	0/4533
11	c2	0.48	0/608	0.98	0/838
11	c3	0.43	0/393	1.02	2/538 (0.4%)
11	c4	0.55	0/374	1.04	0/515
11	c5	0.43	0/403	1.15	1/550 (0.2%)
12	c6	0.39	0/972	0.82	1/1332 (0.1%)
12	c7	0.63	0/1030	1.20	6/1417 (0.4%)
12	c8	0.32	0/830	0.77	4/1133 (0.4%)
13	c9	0.98	0/1218	1.33	17/1663 (1.0%)
14	d0	0.99	1/3446 (0.0%)	1.24	26/4697 (0.6%)
14	d1	1.00	1/3460 (0.0%)	1.25	28/4717 (0.6%)
14	d2	1.01	1/3465 (0.0%)	1.25	28/4724 (0.6%)
14	d3	1.01	0/3460	1.26	25/4717 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
14	d4	1.06	1/3460 (0.0%)	1.27	24/4717 (0.5%)
14	d5	1.05	1/3461 (0.0%)	1.24	22/4719 (0.5%)
14	d6	1.02	1/3465 (0.0%)	1.25	23/4724 (0.5%)
14	d7	0.99	0/3459	1.25	27/4717 (0.6%)
14	d8	1.04	1/3468 (0.0%)	1.26	26/4728 (0.5%)
14	d9	1.03	0/3473	1.25	24/4735 (0.5%)
14	e0	1.03	0/3468	1.28	31/4728 (0.7%)
14	e1	1.02	0/3460	1.26	23/4717 (0.5%)
14	e2	1.03	2/3460 (0.1%)	1.29	27/4717 (0.6%)
14	e3	1.00	1/3465 (0.0%)	1.28	22/4724 (0.5%)
14	e4	1.03	0/3460	1.27	28/4717 (0.6%)
14	e5	1.03	0/3468	1.26	21/4728 (0.4%)
14	e6	1.02	1/3473 (0.0%)	1.29	32/4735 (0.7%)
14	e7	1.01	0/3468	1.27	21/4728 (0.4%)
14	e8	1.04	0/3468	1.27	28/4728 (0.6%)
14	e9	1.05	0/3465	1.25	26/4724 (0.6%)
14	f0	1.00	1/3452 (0.0%)	1.26	22/4706 (0.5%)
14	f1	1.04	2/3465 (0.1%)	1.26	25/4724 (0.5%)
14	f2	1.02	3/3473 (0.1%)	1.25	24/4735 (0.5%)
14	f3	1.05	0/3460	1.23	24/4717 (0.5%)
14	f4	1.01	0/3460	1.23	20/4717 (0.4%)
14	f5	1.00	0/3454	1.24	28/4710 (0.6%)
14	f6	1.02	1/3465 (0.0%)	1.25	19/4724 (0.4%)
14	f7	1.04	2/3449 (0.1%)	1.27	24/4702 (0.5%)
14	f8	0.99	0/3456	1.28	27/4712 (0.6%)
14	f9	1.03	1/3456 (0.0%)	1.28	32/4712 (0.7%)
14	g0	1.05	2/3465 (0.1%)	1.26	24/4724 (0.5%)
14	g1	1.01	0/3465	1.26	31/4724 (0.7%)
14	g2	1.05	1/3460 (0.0%)	1.27	32/4717 (0.7%)
14	g3	1.04	1/3460 (0.0%)	1.26	26/4717 (0.6%)
14	g4	1.02	2/3468 (0.1%)	1.25	24/4728 (0.5%)
14	g5	1.02	0/3465	1.27	24/4724 (0.5%)
14	g6	0.99	1/3465 (0.0%)	1.25	24/4724 (0.5%)
14	g7	1.02	1/3454 (0.0%)	1.27	25/4710 (0.5%)
14	g8	0.99	0/3473	1.24	21/4735 (0.4%)
14	g9	1.05	0/3468	1.26	22/4728 (0.5%)
14	h0	1.00	0/3465	1.24	19/4724 (0.4%)
14	h1	1.01	1/3465 (0.0%)	1.25	25/4724 (0.5%)
14	h2	1.01	0/3460	1.26	27/4717 (0.6%)
14	h3	1.02	1/3468 (0.0%)	1.26	29/4728 (0.6%)
14	h4	1.02	1/3460 (0.0%)	1.26	24/4717 (0.5%)
14	h5	0.99	1/3460 (0.0%)	1.26	28/4717 (0.6%)
14	h6	1.04	0/3460	1.24	23/4717 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
14	h7	1.01	0/3473	1.25	20/4735 (0.4%)
14	h8	1.00	0/3465	1.28	29/4724 (0.6%)
14	h9	1.00	0/3459	1.27	23/4717 (0.5%)
14	i0	1.03	3/3468 (0.1%)	1.27	26/4728 (0.5%)
14	i1	1.03	1/3460 (0.0%)	1.26	25/4717 (0.5%)
14	i2	1.05	1/3460 (0.0%)	1.25	26/4717 (0.6%)
14	i3	1.03	0/3460	1.28	26/4717 (0.6%)
14	i4	1.01	1/3462 (0.0%)	1.26	28/4721 (0.6%)
14	i5	1.04	1/3473 (0.0%)	1.27	32/4735 (0.7%)
14	i6	0.99	0/3460	1.26	25/4717 (0.5%)
14	i7	1.01	1/3460 (0.0%)	1.26	31/4717 (0.7%)
14	i8	1.01	1/3465 (0.0%)	1.26	26/4724 (0.6%)
14	i9	1.00	1/3465 (0.0%)	1.26	27/4724 (0.6%)
14	j0	1.03	2/3470 (0.1%)	1.27	28/4731 (0.6%)
14	j1	1.00	0/3465	1.24	25/4724 (0.5%)
14	j2	1.04	1/3465 (0.0%)	1.25	24/4724 (0.5%)
14	j3	1.03	0/3465	1.30	35/4724 (0.7%)
14	j4	1.02	2/3460 (0.1%)	1.26	21/4717 (0.4%)
14	j5	1.03	1/3460 (0.0%)	1.25	25/4717 (0.5%)
14	j6	1.04	1/3460 (0.0%)	1.26	22/4717 (0.5%)
14	j7	1.04	0/3473	1.24	24/4735 (0.5%)
14	j8	1.00	1/3468 (0.0%)	1.27	25/4728 (0.5%)
14	j9	1.02	2/3465 (0.1%)	1.26	26/4724 (0.6%)
14	k0	1.01	0/3460	1.27	23/4717 (0.5%)
14	k1	1.03	0/3465	1.27	28/4724 (0.6%)
14	k2	1.01	0/3465	1.27	28/4724 (0.6%)
14	k3	1.05	0/3460	1.28	33/4717 (0.7%)
14	k4	1.05	1/3473 (0.0%)	1.26	22/4735 (0.5%)
14	k5	1.03	0/3473	1.26	20/4735 (0.4%)
14	k6	1.01	0/3469	1.26	26/4728 (0.5%)
14	k7	1.02	0/3465	1.27	24/4723 (0.5%)
14	k8	1.03	1/3469 (0.0%)	1.25	24/4728 (0.5%)
14	k9	1.04	0/3459	1.25	24/4717 (0.5%)
14	l0	1.02	0/3469	1.24	29/4728 (0.6%)
14	l1	1.05	0/3469	1.26	26/4728 (0.5%)
14	l2	1.02	1/3460 (0.0%)	1.28	36/4717 (0.8%)
14	l3	1.04	1/3474 (0.0%)	1.26	26/4735 (0.5%)
15	l4	0.90	0/501	1.19	3/684 (0.4%)
All	All	1.00	61/312913 (0.0%)	1.25	2257/426903 (0.5%)

All (61) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	a1	197	ASP	C-N	7.06	1.50	1.33
14	e3	224	HIS	CB-CG	-6.49	1.41	1.50
2	a1	202	THR	C-N	6.47	1.49	1.33
14	d4	224	HIS	CB-CG	-6.43	1.41	1.50
14	h3	224	HIS	CB-CG	-6.31	1.41	1.50
14	i9	224	HIS	CB-CG	-6.29	1.41	1.50
14	l3	224	HIS	CB-CG	-6.25	1.41	1.50
14	h5	224	HIS	CB-CG	-6.24	1.41	1.50
14	d5	224	HIS	CB-CG	-6.21	1.41	1.50
14	d1	224	HIS	CB-CG	-6.21	1.41	1.50
14	d6	224	HIS	CB-CG	-6.20	1.41	1.50
14	j9	224	HIS	CB-CG	-6.17	1.41	1.50
14	g7	224	HIS	CB-CG	-6.14	1.41	1.50
14	f1	224	HIS	CB-CG	-6.14	1.41	1.50
14	j2	224	HIS	CB-CG	-6.01	1.41	1.50
14	e2	224	HIS	CB-CG	-5.98	1.41	1.50
14	g3	224	HIS	CB-CG	-5.91	1.41	1.50
14	g0	224	HIS	CB-CG	-5.89	1.41	1.50
14	d8	224	HIS	CB-CG	-5.86	1.42	1.50
14	f2	329	ARG	CD-NE	-5.86	1.38	1.46
14	k4	224	HIS	CB-CG	-5.84	1.42	1.50
14	i0	108	HIS	CB-CG	-5.84	1.42	1.50
14	j5	224	HIS	CB-CG	-5.83	1.42	1.50
14	j0	224	HIS	CB-CG	-5.83	1.42	1.50
14	i2	224	HIS	CB-CG	-5.81	1.42	1.50
14	i5	224	HIS	CB-CG	-5.77	1.42	1.50
14	k8	108	HIS	CB-CG	-5.75	1.42	1.50
14	f1	135	TRP	NE1-CE2	-5.73	1.31	1.37
14	f0	224	HIS	CB-CG	-5.69	1.42	1.50
14	j8	224	HIS	CB-CG	-5.68	1.42	1.50
14	i8	224	HIS	CB-CG	-5.66	1.42	1.50
14	l2	224	HIS	CB-CG	-5.61	1.42	1.50
14	g0	135	TRP	NE1-CE2	-5.60	1.31	1.37
14	i7	257	HIS	CB-CG	-5.59	1.42	1.50
14	h4	224	HIS	CB-CG	-5.59	1.42	1.50
14	d2	224	HIS	CB-CG	-5.55	1.42	1.50
14	g6	135	TRP	NE1-CE2	-5.55	1.31	1.37
6	a6	139	HIS	CB-CG	-5.50	1.42	1.50
14	f6	224	HIS	CB-CG	-5.49	1.42	1.50
14	j4	108	HIS	CB-CG	-5.49	1.42	1.50
14	f7	135	TRP	NE1-CE2	-5.41	1.31	1.37
14	f7	171	HIS	CB-CG	-5.33	1.42	1.50
14	h1	224	HIS	CB-CG	-5.32	1.42	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	d0	108	HIS	CB-CG	-5.32	1.42	1.50
14	f2	224	HIS	CB-CG	-5.31	1.42	1.50
14	j9	257	HIS	CB-CG	-5.30	1.42	1.50
14	i0	224	HIS	CB-CG	-5.27	1.42	1.50
14	f9	135	TRP	NE1-CE2	-5.25	1.31	1.37
14	g2	135	TRP	NE1-CE2	-5.24	1.31	1.37
14	i4	224	HIS	CB-CG	-5.24	1.42	1.50
14	j6	135	TRP	NE1-CE2	-5.23	1.31	1.37
14	e2	135	TRP	NE1-CE2	-5.21	1.31	1.37
14	j0	135	TRP	NE1-CE2	-5.20	1.31	1.37
14	f2	135	TRP	NE1-CE2	-5.19	1.31	1.37
14	j4	224	HIS	CB-CG	-5.19	1.42	1.50
14	i1	224	HIS	CB-CG	-5.15	1.43	1.50
14	i0	135	TRP	NE1-CE2	-5.14	1.31	1.37
14	g4	224	HIS	CB-CG	-5.12	1.43	1.50
14	g4	135	TRP	NE1-CE2	-5.08	1.31	1.37
14	e6	135	TRP	NE1-CE2	-5.08	1.31	1.37
3	a2	269	PRO	C-O	-5.06	1.18	1.24

All (2257) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	a1	202	THR	CA-C-N	11.36	134.04	119.84
2	a1	202	THR	C-N-CA	11.36	134.04	119.84
8	a8	35	GLU	CA-C-N	10.30	132.71	119.84
8	a8	35	GLU	C-N-CA	10.30	132.71	119.84
2	a1	197	ASP	CA-C-N	9.85	134.85	120.96
2	a1	197	ASP	C-N-CA	9.85	134.85	120.96
14	k1	356	PHE	N-CA-C	-9.37	101.75	113.55
14	f9	15	ASP	CA-CB-CG	-9.26	103.34	112.60
14	e0	24	ILE	N-CA-C	9.25	122.50	113.71
14	j0	213	THR	N-CA-C	9.05	120.75	111.07
7	a7	90	VAL	N-CA-C	9.01	118.89	110.42
14	i7	240	THR	CA-C-N	8.74	128.60	120.21
14	i7	240	THR	C-N-CA	8.74	128.60	120.21
14	l2	240	THR	CA-C-N	8.60	128.46	120.21
14	l2	240	THR	C-N-CA	8.60	128.46	120.21
4	a4	122	GLU	N-CA-C	8.44	121.42	111.71
4	a4	100	LYS	CA-C-N	8.36	128.39	119.78
4	a4	100	LYS	C-N-CA	8.36	128.39	119.78
14	e3	347	THR	CA-C-N	8.22	128.25	119.78
14	e3	347	THR	C-N-CA	8.22	128.25	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i8	21	ASN	CA-C-N	8.16	130.04	119.84
14	i8	21	ASN	C-N-CA	8.16	130.04	119.84
14	f7	388	ILE	N-CA-C	8.14	119.63	108.89
4	a4	237	ASP	N-CA-C	8.10	122.27	109.39
14	d9	359	LYS	CA-C-N	8.10	127.82	119.56
14	d9	359	LYS	C-N-CA	8.10	127.82	119.56
14	g5	359	LYS	CA-C-N	8.09	127.81	119.56
14	g5	359	LYS	C-N-CA	8.09	127.81	119.56
14	f0	359	LYS	CA-C-N	8.08	127.80	119.56
14	f0	359	LYS	C-N-CA	8.08	127.80	119.56
14	f9	240	THR	CA-C-N	8.06	127.95	120.21
14	f9	240	THR	C-N-CA	8.06	127.95	120.21
6	a6	160	THR	N-CA-C	-8.05	104.33	114.56
14	g4	347	THR	CA-C-N	8.04	128.07	119.78
14	g4	347	THR	C-N-CA	8.04	128.07	119.78
14	k4	359	LYS	CA-C-N	8.04	127.77	119.56
14	k4	359	LYS	C-N-CA	8.04	127.77	119.56
14	f0	125	ASP	N-CA-C	-8.00	102.50	111.14
14	j9	297	THR	CA-C-N	7.95	127.90	120.03
14	j9	297	THR	C-N-CA	7.95	127.90	120.03
14	g8	240	THR	CA-C-N	7.92	128.36	120.52
14	g8	240	THR	C-N-CA	7.92	128.36	120.52
14	e0	125	ASP	N-CA-C	-7.91	102.74	111.36
14	d1	359	LYS	CA-C-N	7.89	127.61	119.56
14	d1	359	LYS	C-N-CA	7.89	127.61	119.56
14	j2	359	LYS	CA-C-N	7.89	127.61	119.56
14	j2	359	LYS	C-N-CA	7.89	127.61	119.56
14	e1	388	ILE	N-CA-C	7.89	119.30	108.89
14	g6	240	THR	CA-C-N	7.87	127.77	120.21
14	g6	240	THR	C-N-CA	7.87	127.77	120.21
14	l2	359	LYS	CA-C-N	7.82	127.53	119.56
14	l2	359	LYS	C-N-CA	7.82	127.53	119.56
14	h5	347	THR	CA-C-N	7.81	127.83	119.78
14	h5	347	THR	C-N-CA	7.81	127.83	119.78
6	a6	121	ILE	N-CA-C	7.79	120.06	108.46
14	j7	297	THR	CA-C-N	7.76	127.92	120.31
14	j7	297	THR	C-N-CA	7.76	127.92	120.31
14	h4	359	LYS	CA-C-N	7.76	127.47	119.56
14	h4	359	LYS	C-N-CA	7.76	127.47	119.56
14	j1	359	LYS	CA-C-N	7.75	127.47	119.56
14	j1	359	LYS	C-N-CA	7.75	127.47	119.56
14	e9	359	LYS	CA-C-N	7.75	127.47	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e9	359	LYS	C-N-CA	7.75	127.47	119.56
14	k7	312	VAL	N-CA-C	7.74	120.33	112.90
14	g2	297	THR	CA-C-N	7.71	127.67	120.03
14	g2	297	THR	C-N-CA	7.71	127.67	120.03
14	i3	359	LYS	CA-C-N	7.70	127.42	119.56
14	i3	359	LYS	C-N-CA	7.70	127.42	119.56
14	g0	359	LYS	CA-C-N	7.70	127.41	119.56
14	g0	359	LYS	C-N-CA	7.70	127.41	119.56
14	k1	297	THR	CA-C-N	7.70	127.85	120.31
14	k1	297	THR	C-N-CA	7.70	127.85	120.31
14	h9	240	THR	CA-C-N	7.68	128.12	120.52
14	h9	240	THR	C-N-CA	7.68	128.12	120.52
14	k9	359	LYS	CA-C-N	7.67	127.39	119.56
14	k9	359	LYS	C-N-CA	7.67	127.39	119.56
14	e0	24	ILE	CB-CA-C	-7.66	103.43	110.63
14	i0	359	LYS	CA-C-N	7.63	127.34	119.56
14	i0	359	LYS	C-N-CA	7.63	127.34	119.56
14	f5	297	THR	CA-C-N	7.62	127.78	120.31
14	f5	297	THR	C-N-CA	7.62	127.78	120.31
14	f8	297	THR	CA-C-N	7.62	127.57	120.03
14	f8	297	THR	C-N-CA	7.62	127.57	120.03
14	d1	297	THR	CA-C-N	7.61	127.56	120.03
14	d1	297	THR	C-N-CA	7.61	127.56	120.03
14	g5	364	GLN	O-C-N	-7.61	112.57	121.32
14	h6	359	LYS	CA-C-N	7.61	127.32	119.56
14	h6	359	LYS	C-N-CA	7.61	127.32	119.56
14	f0	347	THR	CA-C-N	7.60	127.61	119.78
14	f0	347	THR	C-N-CA	7.60	127.61	119.78
14	f6	347	THR	CA-C-N	7.59	127.60	119.78
14	f6	347	THR	C-N-CA	7.59	127.60	119.78
14	d1	240	THR	CA-C-N	7.59	127.50	120.21
14	d1	240	THR	C-N-CA	7.59	127.50	120.21
2	a1	155	ASP	N-CA-C	-7.58	104.64	114.04
13	c9	25	PHE	CA-CB-CG	-7.58	106.22	113.80
14	i9	347	THR	CA-C-N	7.57	127.58	119.78
14	i9	347	THR	C-N-CA	7.57	127.58	119.78
14	e3	359	LYS	CA-C-N	7.57	127.28	119.56
14	e3	359	LYS	C-N-CA	7.57	127.28	119.56
14	k0	347	THR	CA-C-N	7.56	127.57	119.78
14	k0	347	THR	C-N-CA	7.56	127.57	119.78
14	e5	347	THR	CA-C-N	7.55	127.56	119.78
14	e5	347	THR	C-N-CA	7.55	127.56	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i9	297	THR	CA-C-N	7.54	127.70	120.31
14	i9	297	THR	C-N-CA	7.54	127.70	120.31
14	h9	347	THR	CA-C-N	7.54	127.55	119.78
14	h9	347	THR	C-N-CA	7.54	127.55	119.78
14	j5	347	THR	CA-C-N	7.54	127.55	119.78
14	j5	347	THR	C-N-CA	7.54	127.55	119.78
14	k3	347	THR	CA-C-N	7.52	127.52	119.78
14	k3	347	THR	C-N-CA	7.52	127.52	119.78
14	h8	347	THR	CA-C-N	7.51	127.52	119.78
14	h8	347	THR	C-N-CA	7.51	127.52	119.78
14	d2	347	THR	CA-C-N	7.51	127.52	119.78
14	d2	347	THR	C-N-CA	7.51	127.52	119.78
14	j1	347	THR	CA-C-N	7.51	127.51	119.78
14	j1	347	THR	C-N-CA	7.51	127.51	119.78
14	h8	297	THR	CA-C-N	7.51	127.46	120.03
14	h8	297	THR	C-N-CA	7.51	127.46	120.03
14	d3	347	THR	CA-C-N	7.50	127.51	119.78
14	d3	347	THR	C-N-CA	7.50	127.51	119.78
14	k1	240	THR	CA-C-N	7.50	127.41	120.21
14	k1	240	THR	C-N-CA	7.50	127.41	120.21
14	j3	297	THR	CA-C-N	7.50	127.45	120.03
14	j3	297	THR	C-N-CA	7.50	127.45	120.03
14	k6	347	THR	CA-C-N	7.50	127.50	119.78
14	k6	347	THR	C-N-CA	7.50	127.50	119.78
14	l2	125	ASP	N-CA-C	-7.49	103.05	111.14
14	e2	359	LYS	CA-C-N	7.49	127.20	119.56
14	e2	359	LYS	C-N-CA	7.49	127.20	119.56
14	h2	347	THR	CA-C-N	7.49	127.49	119.78
14	h2	347	THR	C-N-CA	7.49	127.49	119.78
14	k0	297	THR	CA-C-N	7.49	127.44	120.03
14	k0	297	THR	C-N-CA	7.49	127.44	120.03
14	k8	347	THR	CA-C-N	7.48	127.49	119.78
14	k8	347	THR	C-N-CA	7.48	127.49	119.78
14	i4	125	ASP	N-CA-C	-7.48	103.21	111.36
14	i0	297	THR	CA-C-N	7.48	127.64	120.31
14	i0	297	THR	C-N-CA	7.48	127.64	120.31
14	d7	297	THR	CA-C-N	7.47	127.43	120.03
14	d7	297	THR	C-N-CA	7.47	127.43	120.03
14	k4	347	THR	CA-C-N	7.46	127.47	119.78
14	k4	347	THR	C-N-CA	7.46	127.47	119.78
14	i1	347	THR	CA-C-N	7.46	127.46	119.78
14	i1	347	THR	C-N-CA	7.46	127.46	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d5	347	THR	CA-C-N	7.46	127.46	119.78
14	d5	347	THR	C-N-CA	7.46	127.46	119.78
14	k6	297	THR	CA-C-N	7.45	127.41	120.03
14	k6	297	THR	C-N-CA	7.45	127.41	120.03
14	e0	347	THR	CA-C-N	7.45	127.45	119.78
14	e0	347	THR	C-N-CA	7.45	127.45	119.78
14	f9	16	VAL	N-CA-C	-7.43	103.22	110.72
14	h0	347	THR	CA-C-N	7.42	127.42	119.78
14	h0	347	THR	C-N-CA	7.42	127.42	119.78
14	l1	347	THR	CA-C-N	7.42	127.42	119.78
14	l1	347	THR	C-N-CA	7.42	127.42	119.78
14	d9	240	THR	CA-C-N	7.42	127.37	120.03
14	d9	240	THR	C-N-CA	7.42	127.37	120.03
14	l1	297	THR	CA-C-N	7.42	127.58	120.31
14	l1	297	THR	C-N-CA	7.42	127.58	120.31
14	g6	359	LYS	CA-C-N	7.41	127.11	119.56
14	g6	359	LYS	C-N-CA	7.41	127.11	119.56
14	i7	347	THR	CA-C-N	7.41	127.41	119.78
14	i7	347	THR	C-N-CA	7.41	127.41	119.78
14	k7	347	THR	CA-C-N	7.40	127.40	119.78
14	k7	347	THR	C-N-CA	7.40	127.40	119.78
14	e9	347	THR	CA-C-N	7.40	127.40	119.78
14	e9	347	THR	C-N-CA	7.40	127.40	119.78
14	g2	359	LYS	CA-C-N	7.40	127.11	119.56
14	g2	359	LYS	C-N-CA	7.40	127.11	119.56
14	h1	347	THR	CA-C-N	7.39	127.40	119.78
14	h1	347	THR	C-N-CA	7.39	127.40	119.78
14	j6	347	THR	CA-C-N	7.39	127.39	119.78
14	j6	347	THR	C-N-CA	7.39	127.39	119.78
14	f9	347	THR	CA-C-N	7.38	127.38	119.78
14	f9	347	THR	C-N-CA	7.38	127.38	119.78
14	i1	240	THR	CA-C-N	7.36	127.28	120.21
14	i1	240	THR	C-N-CA	7.36	127.28	120.21
14	g6	347	THR	CA-C-N	7.34	127.34	119.78
14	g6	347	THR	C-N-CA	7.34	127.34	119.78
14	h3	347	THR	CA-C-N	7.34	127.34	119.78
14	h3	347	THR	C-N-CA	7.34	127.34	119.78
14	i5	125	ASP	N-CA-C	-7.32	103.23	111.14
14	f7	347	THR	CA-C-N	7.32	127.32	119.78
14	f7	347	THR	C-N-CA	7.32	127.32	119.78
14	g8	359	LYS	CA-C-N	7.32	127.02	119.56
14	g8	359	LYS	C-N-CA	7.32	127.02	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d1	125	ASP	N-CA-C	-7.31	103.24	111.14
14	e1	359	LYS	CA-C-N	7.31	127.02	119.56
14	e1	359	LYS	C-N-CA	7.31	127.02	119.56
14	j2	240	THR	CA-C-N	7.31	127.26	120.03
14	j2	240	THR	C-N-CA	7.31	127.26	120.03
14	d5	359	LYS	CA-C-N	7.30	127.01	119.56
14	d5	359	LYS	C-N-CA	7.30	127.01	119.56
14	f1	359	LYS	CA-C-N	7.30	127.01	119.56
14	f1	359	LYS	C-N-CA	7.30	127.01	119.56
14	j5	359	LYS	CA-C-N	7.30	127.01	119.56
14	j5	359	LYS	C-N-CA	7.30	127.01	119.56
14	h4	240	THR	CA-C-N	7.30	127.22	120.21
14	h4	240	THR	C-N-CA	7.30	127.22	120.21
14	e3	297	THR	CA-C-N	7.30	127.25	120.03
14	e3	297	THR	C-N-CA	7.30	127.25	120.03
7	a7	99	TYR	CA-C-N	7.28	127.44	119.87
7	a7	99	TYR	C-N-CA	7.28	127.44	119.87
14	f6	297	THR	CA-C-N	7.27	127.22	120.03
14	f6	297	THR	C-N-CA	7.27	127.22	120.03
13	c9	83	ASP	N-CA-C	-7.25	103.45	111.36
14	k1	359	LYS	CA-C-N	7.25	126.96	119.56
14	k1	359	LYS	C-N-CA	7.25	126.96	119.56
7	a7	107	PHE	N-CA-C	-7.25	102.85	114.09
14	e7	297	THR	CA-C-N	7.25	127.21	120.03
14	e7	297	THR	C-N-CA	7.25	127.21	120.03
14	i6	297	THR	CA-C-N	7.25	127.41	120.31
14	i6	297	THR	C-N-CA	7.25	127.41	120.31
14	i8	359	LYS	CA-C-N	7.25	126.95	119.56
14	i8	359	LYS	C-N-CA	7.25	126.95	119.56
14	k6	240	THR	CA-C-N	7.25	127.20	120.03
14	k6	240	THR	C-N-CA	7.25	127.20	120.03
14	g7	347	THR	CA-C-N	7.24	127.24	119.78
14	g7	347	THR	C-N-CA	7.24	127.24	119.78
14	i5	347	THR	CA-C-N	7.23	127.22	119.78
14	i5	347	THR	C-N-CA	7.23	127.22	119.78
14	i3	347	THR	CA-C-N	7.22	127.22	119.78
14	i3	347	THR	C-N-CA	7.22	127.22	119.78
14	h0	268	ASN	CA-C-N	7.22	126.92	119.56
14	h0	268	ASN	C-N-CA	7.22	126.92	119.56
14	h6	297	THR	CA-C-N	7.21	127.13	120.21
14	h6	297	THR	C-N-CA	7.21	127.13	120.21
14	k2	125	ASP	N-CA-C	-7.20	103.36	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e6	347	THR	CA-C-N	7.20	127.20	119.78
14	e6	347	THR	C-N-CA	7.20	127.20	119.78
14	e7	359	LYS	CA-C-N	7.20	126.90	119.56
14	e7	359	LYS	C-N-CA	7.20	126.90	119.56
14	e6	27	PHE	CA-CB-CG	-7.19	106.61	113.80
14	i4	297	THR	CA-C-N	7.19	127.15	120.03
14	i4	297	THR	C-N-CA	7.19	127.15	120.03
14	g7	240	THR	CA-C-N	7.18	127.63	120.52
14	g7	240	THR	C-N-CA	7.18	127.63	120.52
14	h7	297	THR	CA-C-N	7.18	127.14	120.03
14	h7	297	THR	C-N-CA	7.18	127.14	120.03
14	i8	347	THR	CA-C-N	7.18	127.17	119.78
14	i8	347	THR	C-N-CA	7.18	127.17	119.78
14	j3	347	THR	CA-C-N	7.18	127.17	119.78
14	j3	347	THR	C-N-CA	7.18	127.17	119.78
14	f4	359	LYS	CA-C-N	7.18	126.88	119.56
14	f4	359	LYS	C-N-CA	7.18	126.88	119.56
14	e2	268	ASN	CA-C-N	7.17	126.87	119.56
14	e2	268	ASN	C-N-CA	7.17	126.87	119.56
14	j2	297	THR	CA-C-N	7.16	127.12	120.03
14	j2	297	THR	C-N-CA	7.16	127.12	120.03
14	f9	359	LYS	CA-C-N	7.16	126.86	119.56
14	f9	359	LYS	C-N-CA	7.16	126.86	119.56
14	g0	347	THR	CA-C-N	7.16	127.15	119.78
14	g0	347	THR	C-N-CA	7.16	127.15	119.78
14	k3	359	LYS	CA-C-N	7.16	126.86	119.56
14	k3	359	LYS	C-N-CA	7.16	126.86	119.56
14	i9	433	LEU	CA-C-N	7.15	129.86	120.28
14	i9	433	LEU	C-N-CA	7.15	129.86	120.28
14	j3	240	THR	CA-C-N	7.14	127.07	120.21
14	j3	240	THR	C-N-CA	7.14	127.07	120.21
14	g1	359	LYS	CA-C-N	7.14	126.85	119.56
14	g1	359	LYS	C-N-CA	7.14	126.85	119.56
14	g5	297	THR	CA-C-N	7.13	127.30	120.31
14	g5	297	THR	C-N-CA	7.13	127.30	120.31
14	e4	359	LYS	CA-C-N	7.12	126.82	119.56
14	e4	359	LYS	C-N-CA	7.12	126.82	119.56
14	j0	359	LYS	CA-C-N	7.11	126.81	119.56
14	j0	359	LYS	C-N-CA	7.11	126.81	119.56
14	g3	359	LYS	CA-C-N	7.10	126.80	119.56
14	g3	359	LYS	C-N-CA	7.10	126.80	119.56
14	g4	297	THR	CA-C-N	7.10	127.27	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	g4	297	THR	C-N-CA	7.10	127.27	120.31
14	g7	359	LYS	CA-C-N	7.10	126.80	119.56
14	g7	359	LYS	C-N-CA	7.10	126.80	119.56
14	g5	240	THR	CA-C-N	7.08	127.53	120.52
14	g5	240	THR	C-N-CA	7.08	127.53	120.52
14	k3	241	PRO	N-CA-C	-7.08	101.31	111.22
14	j2	347	THR	CA-C-N	7.08	127.07	119.78
14	j2	347	THR	C-N-CA	7.08	127.07	119.78
14	d2	359	LYS	CA-C-N	7.07	126.78	119.56
14	d2	359	LYS	C-N-CA	7.07	126.78	119.56
14	i2	359	LYS	CA-C-N	7.07	126.77	119.56
14	i2	359	LYS	C-N-CA	7.07	126.77	119.56
14	j4	297	THR	CA-C-N	7.07	127.03	120.03
14	j4	297	THR	C-N-CA	7.07	127.03	120.03
14	f4	347	THR	CA-C-N	7.06	127.06	119.78
14	f4	347	THR	C-N-CA	7.06	127.06	119.78
4	a4	158	ALA	N-CA-C	7.06	119.17	110.91
14	g0	297	THR	CA-C-N	7.06	127.02	120.03
14	g0	297	THR	C-N-CA	7.06	127.02	120.03
14	j4	240	THR	CA-C-N	7.05	127.05	119.78
14	j4	240	THR	C-N-CA	7.05	127.05	119.78
14	h5	268	ASN	CA-C-N	7.05	126.75	119.56
14	h5	268	ASN	C-N-CA	7.05	126.75	119.56
14	d6	240	THR	CA-C-N	7.05	127.01	120.03
14	d6	240	THR	C-N-CA	7.05	127.01	120.03
14	f2	359	LYS	CA-C-N	7.04	126.75	119.56
14	f2	359	LYS	C-N-CA	7.04	126.75	119.56
14	j9	240	THR	CA-C-N	7.04	127.49	120.52
14	j9	240	THR	C-N-CA	7.04	127.49	120.52
6	a6	18	ASP	CA-C-N	7.04	126.74	119.56
6	a6	18	ASP	C-N-CA	7.04	126.74	119.56
14	k5	347	THR	CA-C-N	7.04	127.03	119.78
14	k5	347	THR	C-N-CA	7.04	127.03	119.78
14	f2	297	THR	CA-C-N	7.04	127.00	120.03
14	f2	297	THR	C-N-CA	7.04	127.00	120.03
14	h6	347	THR	CA-C-N	7.04	127.03	119.78
14	h6	347	THR	C-N-CA	7.04	127.03	119.78
13	c9	31	GLU	CA-C-N	7.03	127.02	119.78
13	c9	31	GLU	C-N-CA	7.03	127.02	119.78
14	k2	297	THR	CA-C-N	7.03	127.20	120.31
14	k2	297	THR	C-N-CA	7.03	127.20	120.31
14	g3	347	THR	CA-C-N	7.02	127.01	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	g3	347	THR	C-N-CA	7.02	127.01	119.78
8	a8	121	PRO	CA-C-N	7.02	126.98	120.03
8	a8	121	PRO	C-N-CA	7.02	126.98	120.03
14	d3	359	LYS	CA-C-N	7.02	126.72	119.56
14	d3	359	LYS	C-N-CA	7.02	126.72	119.56
14	k3	297	THR	CA-C-N	7.02	127.47	120.52
14	k3	297	THR	C-N-CA	7.02	127.47	120.52
14	k8	240	THR	CA-C-N	7.02	126.94	120.21
14	k8	240	THR	C-N-CA	7.02	126.94	120.21
14	j4	347	THR	CA-C-N	7.01	127.00	119.78
14	j4	347	THR	C-N-CA	7.01	127.00	119.78
14	k7	401	GLU	N-CA-C	7.01	119.00	111.36
14	f4	125	ASP	N-CA-C	-7.01	103.57	111.14
14	k6	359	LYS	CA-C-N	7.01	126.71	119.56
14	k6	359	LYS	C-N-CA	7.01	126.71	119.56
14	e1	392	SER	CA-C-N	7.00	127.59	119.47
14	e1	392	SER	C-N-CA	7.00	127.59	119.47
14	g1	268	ASN	CA-C-N	7.00	126.70	119.56
14	g1	268	ASN	C-N-CA	7.00	126.70	119.56
14	i4	347	THR	CA-C-N	7.00	126.99	119.78
14	i4	347	THR	C-N-CA	7.00	126.99	119.78
14	k8	392	SER	CA-C-N	6.99	127.29	119.32
14	k8	392	SER	C-N-CA	6.99	127.29	119.32
14	i3	297	THR	CA-C-N	6.99	126.92	120.21
14	i3	297	THR	C-N-CA	6.99	126.92	120.21
14	e7	125	ASP	N-CA-C	-6.98	103.75	111.36
14	j8	347	THR	CA-C-N	6.97	126.96	119.78
14	j8	347	THR	C-N-CA	6.97	126.96	119.78
14	g3	27	PHE	CA-CB-CG	-6.97	106.83	113.80
14	f7	359	LYS	CA-C-N	6.96	126.67	119.56
14	f7	359	LYS	C-N-CA	6.96	126.67	119.56
14	k4	268	ASN	CA-C-N	6.96	126.66	119.56
14	k4	268	ASN	C-N-CA	6.96	126.66	119.56
14	h0	297	THR	CA-C-N	6.95	127.40	120.52
14	h0	297	THR	C-N-CA	6.95	127.40	120.52
14	i5	240	THR	CA-C-N	6.95	127.41	120.52
14	i5	240	THR	C-N-CA	6.95	127.41	120.52
14	h2	312	VAL	N-CA-C	6.95	119.57	112.90
14	j0	268	ASN	CA-C-N	6.95	126.65	119.56
14	j0	268	ASN	C-N-CA	6.95	126.65	119.56
14	h7	359	LYS	CA-C-N	6.94	126.64	119.56
14	h7	359	LYS	C-N-CA	6.94	126.64	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d7	240	THR	CA-C-N	6.93	126.87	120.21
14	d7	240	THR	C-N-CA	6.93	126.87	120.21
14	h1	359	LYS	CA-C-N	6.92	126.61	119.56
14	h1	359	LYS	C-N-CA	6.92	126.61	119.56
14	i2	297	THR	CA-C-N	6.91	127.08	120.31
14	i2	297	THR	C-N-CA	6.91	127.08	120.31
14	d4	359	LYS	CA-C-N	6.90	126.60	119.56
14	d4	359	LYS	C-N-CA	6.90	126.60	119.56
14	e6	359	LYS	CA-C-N	6.89	126.59	119.56
14	e6	359	LYS	C-N-CA	6.89	126.59	119.56
14	l0	297	THR	CA-C-N	6.89	127.06	120.31
14	l0	297	THR	C-N-CA	6.89	127.06	120.31
14	i5	268	ASN	CA-C-N	6.89	126.59	119.56
14	i5	268	ASN	C-N-CA	6.89	126.59	119.56
14	e2	297	THR	CA-C-N	6.89	126.85	120.03
14	e2	297	THR	C-N-CA	6.89	126.85	120.03
14	j6	359	LYS	CA-C-N	6.89	126.59	119.56
14	j6	359	LYS	C-N-CA	6.89	126.59	119.56
14	k2	87	TYR	CA-C-N	6.89	126.58	119.56
14	k2	87	TYR	C-N-CA	6.89	126.58	119.56
14	f9	21	ASN	CA-C-N	6.88	126.86	119.78
14	f9	21	ASN	C-N-CA	6.88	126.86	119.78
14	k3	242	SER	N-CA-C	6.88	119.79	108.99
14	g9	268	ASN	CA-C-N	6.87	126.56	119.56
14	g9	268	ASN	C-N-CA	6.87	126.56	119.56
14	h9	359	LYS	CA-C-N	6.87	126.56	119.56
14	h9	359	LYS	C-N-CA	6.87	126.56	119.56
14	k3	105	ILE	N-CA-C	-6.86	106.34	111.90
14	d3	297	THR	CA-C-N	6.86	126.82	120.03
14	d3	297	THR	C-N-CA	6.86	126.82	120.03
14	h3	359	LYS	CA-C-N	6.86	126.55	119.56
14	h3	359	LYS	C-N-CA	6.86	126.55	119.56
14	l2	297	THR	CA-C-N	6.85	126.82	120.03
14	l2	297	THR	C-N-CA	6.85	126.82	120.03
14	j8	312	VAL	N-CA-C	6.85	119.47	112.90
14	k2	375	ASP	CA-CB-CG	6.85	119.45	112.60
14	h8	359	LYS	CA-C-N	6.84	126.54	119.56
14	h8	359	LYS	C-N-CA	6.84	126.54	119.56
14	h2	125	ASP	N-CA-C	-6.84	103.75	111.14
14	d2	125	ASP	N-CA-C	-6.83	103.76	111.14
14	j6	297	THR	CA-C-N	6.83	127.01	120.31
14	j6	297	THR	C-N-CA	6.83	127.01	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i8	268	ASN	CA-C-N	6.82	126.52	119.56
14	i8	268	ASN	C-N-CA	6.82	126.52	119.56
14	j7	359	LYS	CA-C-N	6.82	126.52	119.56
14	j7	359	LYS	C-N-CA	6.82	126.52	119.56
14	f8	16	VAL	N-CA-C	6.82	118.75	108.80
14	i9	359	LYS	CA-C-N	6.82	126.51	119.56
14	i9	359	LYS	C-N-CA	6.82	126.51	119.56
14	l0	359	LYS	CA-C-N	6.81	126.51	119.56
14	l0	359	LYS	C-N-CA	6.81	126.51	119.56
14	f8	347	THR	CA-C-N	6.81	126.73	119.85
14	f8	347	THR	C-N-CA	6.81	126.73	119.85
14	h2	297	THR	CA-C-N	6.81	127.26	120.52
14	h2	297	THR	C-N-CA	6.81	127.26	120.52
14	f3	297	THR	CA-C-N	6.81	126.98	120.31
14	f3	297	THR	C-N-CA	6.81	126.98	120.31
14	d8	125	ASP	N-CA-C	-6.81	103.79	111.14
14	h5	359	LYS	CA-C-N	6.80	126.50	119.56
14	h5	359	LYS	C-N-CA	6.80	126.50	119.56
14	k2	359	LYS	CA-C-N	6.80	126.50	119.56
14	k2	359	LYS	C-N-CA	6.80	126.50	119.56
14	k5	297	THR	CA-C-N	6.80	126.76	120.03
14	k5	297	THR	C-N-CA	6.80	126.76	120.03
8	a8	28	ILE	N-CA-C	6.80	118.27	108.48
14	d8	347	THR	CA-C-N	6.80	126.78	119.78
14	d8	347	THR	C-N-CA	6.80	126.78	119.78
4	a4	211	CYS	N-CA-C	6.79	121.73	113.17
14	j0	297	THR	CA-C-N	6.79	126.96	120.31
14	j0	297	THR	C-N-CA	6.79	126.96	120.31
14	j7	347	THR	CA-C-N	6.79	126.77	119.78
14	j7	347	THR	C-N-CA	6.79	126.77	119.78
14	f1	392	SER	CA-C-N	6.78	127.05	119.32
14	f1	392	SER	C-N-CA	6.78	127.05	119.32
14	g9	359	LYS	CA-C-N	6.78	126.47	119.56
14	g9	359	LYS	C-N-CA	6.78	126.47	119.56
14	h5	297	THR	CA-C-N	6.78	127.23	120.52
14	h5	297	THR	C-N-CA	6.78	127.23	120.52
14	h7	347	THR	CA-C-N	6.78	126.74	120.03
14	h7	347	THR	C-N-CA	6.78	126.74	120.03
14	d0	359	LYS	CA-C-N	6.78	126.47	119.56
14	d0	359	LYS	C-N-CA	6.78	126.47	119.56
14	h8	268	ASN	CA-C-N	6.78	126.47	119.56
14	h8	268	ASN	C-N-CA	6.78	126.47	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	f7	297	THR	CA-C-N	6.77	126.74	120.03
14	f7	297	THR	C-N-CA	6.77	126.74	120.03
14	e4	240	THR	CA-C-N	6.76	127.22	120.52
14	e4	240	THR	C-N-CA	6.76	127.22	120.52
14	j4	359	LYS	CA-C-N	6.76	126.46	119.56
14	j4	359	LYS	C-N-CA	6.76	126.46	119.56
14	h6	392	SER	CA-C-N	6.76	127.03	119.32
14	h6	392	SER	C-N-CA	6.76	127.03	119.32
14	k3	430	MET	CA-C-N	-6.76	116.14	121.82
14	k3	430	MET	C-N-CA	-6.76	116.14	121.82
14	i5	359	LYS	CA-C-N	6.76	126.45	119.56
14	i5	359	LYS	C-N-CA	6.76	126.45	119.56
14	i1	359	LYS	CA-C-N	6.76	126.45	119.56
14	i1	359	LYS	C-N-CA	6.76	126.45	119.56
14	i9	240	THR	CA-C-N	6.76	126.72	120.03
14	i9	240	THR	C-N-CA	6.76	126.72	120.03
14	d4	240	THR	CA-C-N	6.75	126.72	120.03
14	d4	240	THR	C-N-CA	6.75	126.72	120.03
14	d2	240	THR	CA-C-N	6.75	128.20	120.98
14	d2	240	THR	C-N-CA	6.75	128.20	120.98
14	e5	359	LYS	CA-C-N	6.75	126.45	119.56
14	e5	359	LYS	C-N-CA	6.75	126.45	119.56
14	f8	359	LYS	CA-C-N	6.75	126.44	119.56
14	f8	359	LYS	C-N-CA	6.75	126.44	119.56
14	g1	347	THR	CA-C-N	6.74	126.66	119.85
14	g1	347	THR	C-N-CA	6.74	126.66	119.85
14	j8	297	THR	CA-C-N	6.74	126.70	120.03
14	j8	297	THR	C-N-CA	6.74	126.70	120.03
14	k0	392	SER	CA-C-N	6.74	127.00	119.32
14	k0	392	SER	C-N-CA	6.74	127.00	119.32
14	d8	359	LYS	CA-C-N	6.73	126.42	119.56
14	d8	359	LYS	C-N-CA	6.73	126.42	119.56
14	d5	297	THR	CA-C-N	6.72	126.69	120.03
14	d5	297	THR	C-N-CA	6.72	126.69	120.03
14	i6	363	ARG	N-CA-C	-6.72	105.71	114.04
14	f7	392	SER	CA-C-N	6.71	127.25	119.47
14	f7	392	SER	C-N-CA	6.71	127.25	119.47
14	i7	297	THR	CA-C-N	6.71	126.88	120.31
14	i7	297	THR	C-N-CA	6.71	126.88	120.31
14	i3	125	ASP	N-CA-C	-6.71	103.90	111.14
14	i1	87	TYR	CA-C-N	6.70	126.40	119.56
14	i1	87	TYR	C-N-CA	6.70	126.40	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e0	359	LYS	CA-C-N	6.70	126.39	119.56
14	e0	359	LYS	C-N-CA	6.70	126.39	119.56
14	g2	347	THR	CA-C-N	6.70	126.61	119.85
14	g2	347	THR	C-N-CA	6.70	126.61	119.85
14	k1	392	SER	CA-C-N	6.69	126.95	119.32
14	k1	392	SER	C-N-CA	6.69	126.95	119.32
14	d0	240	THR	CA-C-N	6.68	126.66	119.78
14	d0	240	THR	C-N-CA	6.68	126.66	119.78
14	d6	297	THR	CA-C-N	6.67	126.85	120.31
14	d6	297	THR	C-N-CA	6.67	126.85	120.31
14	k6	125	ASP	N-CA-C	-6.67	103.93	111.14
14	k9	125	ASP	N-CA-C	-6.67	103.94	111.14
14	g5	347	THR	CA-C-N	6.67	126.58	119.85
14	g5	347	THR	C-N-CA	6.67	126.58	119.85
14	d0	347	THR	CA-C-N	6.66	126.58	119.85
14	d0	347	THR	C-N-CA	6.66	126.58	119.85
14	k3	392	SER	CA-C-N	6.66	127.20	119.47
14	k3	392	SER	C-N-CA	6.66	127.20	119.47
14	d4	297	THR	CA-C-N	6.66	126.62	120.03
14	d4	297	THR	C-N-CA	6.66	126.62	120.03
14	j0	392	SER	CA-C-N	6.66	126.91	119.32
14	j0	392	SER	C-N-CA	6.66	126.91	119.32
14	i0	213	THR	N-CA-C	6.66	118.61	111.36
14	i4	359	LYS	CA-C-N	6.66	126.35	119.56
14	i4	359	LYS	C-N-CA	6.66	126.35	119.56
14	j3	359	LYS	CA-C-N	6.65	126.34	119.56
14	j3	359	LYS	C-N-CA	6.65	126.34	119.56
14	d0	297	THR	CA-C-N	6.64	126.61	120.03
14	d0	297	THR	C-N-CA	6.64	126.61	120.03
14	f2	347	THR	CA-C-N	6.64	126.62	119.78
14	f2	347	THR	C-N-CA	6.64	126.62	119.78
14	k9	87	TYR	CA-C-N	6.64	126.34	119.56
14	k9	87	TYR	C-N-CA	6.64	126.34	119.56
14	h8	392	SER	CA-C-N	6.64	127.17	119.47
14	h8	392	SER	C-N-CA	6.64	127.17	119.47
14	j8	388	ILE	N-CA-C	6.63	117.65	108.89
14	h4	297	THR	CA-C-N	6.63	126.59	120.03
14	h4	297	THR	C-N-CA	6.63	126.59	120.03
14	g4	359	LYS	CA-C-N	6.63	126.32	119.56
14	g4	359	LYS	C-N-CA	6.63	126.32	119.56
14	h0	359	LYS	CA-C-N	6.62	126.32	119.56
14	h0	359	LYS	C-N-CA	6.62	126.32	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i3	27	PHE	CA-CB-CG	-6.62	107.18	113.80
14	i8	297	THR	CA-C-N	6.61	126.58	120.03
14	i8	297	THR	C-N-CA	6.61	126.58	120.03
14	k4	297	THR	CA-C-N	6.61	127.07	120.52
14	k4	297	THR	C-N-CA	6.61	127.07	120.52
14	d2	392	SER	CA-C-N	6.60	127.12	119.47
14	d2	392	SER	C-N-CA	6.60	127.12	119.47
14	f3	125	ASP	N-CA-C	-6.60	104.01	111.14
14	f5	312	VAL	N-CA-C	6.59	119.23	112.90
14	j1	297	THR	CA-C-N	6.59	127.04	120.52
14	j1	297	THR	C-N-CA	6.59	127.04	120.52
14	d3	392	SER	CA-C-N	6.58	126.82	119.32
14	d3	392	SER	C-N-CA	6.58	126.82	119.32
14	g1	297	THR	CA-C-N	6.58	127.03	120.52
14	g1	297	THR	C-N-CA	6.58	127.03	120.52
14	j9	347	THR	CA-C-N	6.58	126.54	120.03
14	j9	347	THR	C-N-CA	6.58	126.54	120.03
14	g2	240	THR	CA-C-N	6.57	126.53	120.03
14	g2	240	THR	C-N-CA	6.57	126.53	120.03
14	e8	312	VAL	N-CA-C	6.57	119.20	112.90
14	i6	392	SER	CA-C-N	6.57	127.08	119.47
14	i6	392	SER	C-N-CA	6.57	127.08	119.47
14	h3	392	SER	CA-C-N	6.56	127.08	119.47
14	h3	392	SER	C-N-CA	6.56	127.08	119.47
14	e7	347	THR	CA-C-N	6.56	126.47	119.85
14	e7	347	THR	C-N-CA	6.56	126.47	119.85
14	d9	87	TYR	CA-C-N	6.55	126.25	119.56
14	d9	87	TYR	C-N-CA	6.55	126.25	119.56
14	e5	392	SER	CA-C-N	6.55	126.79	119.32
14	e5	392	SER	C-N-CA	6.55	126.79	119.32
14	g2	392	SER	CA-C-N	6.55	126.79	119.32
14	g2	392	SER	C-N-CA	6.55	126.79	119.32
14	e8	297	THR	CA-C-N	6.55	126.52	120.03
14	e8	297	THR	C-N-CA	6.55	126.52	120.03
14	i9	245	THR	N-CA-C	6.55	118.51	108.42
14	k7	297	THR	CA-C-N	6.54	126.72	120.31
14	k7	297	THR	C-N-CA	6.54	126.72	120.31
14	g0	392	SER	CA-C-N	6.54	126.78	119.32
14	g0	392	SER	C-N-CA	6.54	126.78	119.32
14	d6	347	THR	CA-C-N	6.54	126.45	119.85
14	d6	347	THR	C-N-CA	6.54	126.45	119.85
14	k8	245	THR	N-CA-C	6.54	118.45	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	g0	213	THR	N-CA-C	6.53	118.06	111.07
14	h2	222	LEU	CA-C-N	6.53	126.51	119.78
14	h2	222	LEU	C-N-CA	6.53	126.51	119.78
14	k6	245	THR	N-CA-C	6.53	118.45	108.52
14	d1	347	THR	CA-C-N	6.53	126.44	119.85
14	d1	347	THR	C-N-CA	6.53	126.44	119.85
14	e0	125	ASP	CA-CB-CG	6.53	119.13	112.60
14	l1	359	LYS	CA-C-N	6.53	126.22	119.56
14	l1	359	LYS	C-N-CA	6.53	126.22	119.56
14	d4	21	ASN	CA-C-N	6.52	126.50	119.78
14	d4	21	ASN	C-N-CA	6.52	126.50	119.78
14	f8	213	THR	N-CA-C	6.52	118.93	111.11
14	g5	392	SER	CA-C-N	6.51	126.75	119.32
14	g5	392	SER	C-N-CA	6.51	126.75	119.32
14	d7	392	SER	CA-C-N	6.51	127.02	119.47
14	d7	392	SER	C-N-CA	6.51	127.02	119.47
14	g3	312	VAL	N-CA-C	6.51	119.15	112.90
14	g3	430	MET	CA-C-N	-6.51	116.38	122.17
14	g3	430	MET	C-N-CA	-6.51	116.38	122.17
14	j5	125	ASP	CA-CB-CG	6.51	119.11	112.60
14	f0	297	THR	CA-C-N	6.50	126.47	120.03
14	f0	297	THR	C-N-CA	6.50	126.47	120.03
14	k8	87	TYR	CA-C-N	6.50	126.19	119.56
14	k8	87	TYR	C-N-CA	6.50	126.19	119.56
14	f6	392	SER	CA-C-N	6.49	126.72	119.32
14	f6	392	SER	C-N-CA	6.49	126.72	119.32
14	g6	297	THR	CA-C-N	6.49	126.95	120.52
14	g6	297	THR	C-N-CA	6.49	126.95	120.52
14	d4	347	THR	CA-C-N	6.49	126.41	119.85
14	d4	347	THR	C-N-CA	6.49	126.41	119.85
14	h3	240	THR	CA-C-N	6.49	126.94	120.52
14	h3	240	THR	C-N-CA	6.49	126.94	120.52
4	a4	210	GLN	N-CA-C	6.49	121.23	113.12
14	i6	123	ASN	CB-CA-C	-6.48	109.08	116.54
14	l3	297	THR	CA-C-N	6.48	126.45	120.03
14	l3	297	THR	C-N-CA	6.48	126.45	120.03
14	f7	366	SER	N-CA-C	-6.48	102.16	110.19
14	g1	312	VAL	N-CA-C	6.48	119.12	112.90
14	i8	156	ASN	CA-CB-CG	6.47	119.07	112.60
14	j5	392	SER	CA-C-N	6.47	126.70	119.32
14	j5	392	SER	C-N-CA	6.47	126.70	119.32
14	e5	297	THR	CA-C-N	6.47	126.65	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e5	297	THR	C-N-CA	6.47	126.65	120.31
14	e1	347	THR	CA-C-N	6.47	126.38	119.85
14	e1	347	THR	C-N-CA	6.47	126.38	119.85
14	f2	392	SER	CA-C-N	6.46	126.69	119.32
14	f2	392	SER	C-N-CA	6.46	126.69	119.32
14	g4	392	SER	CA-C-N	6.46	126.96	119.47
14	g4	392	SER	C-N-CA	6.46	126.96	119.47
14	k2	240	THR	CA-C-N	6.46	126.42	120.03
14	k2	240	THR	C-N-CA	6.46	126.42	120.03
14	f3	359	LYS	CA-C-N	6.45	126.14	119.56
14	f3	359	LYS	C-N-CA	6.45	126.14	119.56
14	g7	297	THR	CA-C-N	6.45	126.42	120.03
14	g7	297	THR	C-N-CA	6.45	126.42	120.03
14	i9	312	VAL	N-CA-C	6.45	119.09	112.90
14	d8	392	SER	CA-C-N	6.45	126.95	119.47
14	d8	392	SER	C-N-CA	6.45	126.95	119.47
14	k0	359	LYS	CA-C-N	6.45	126.14	119.56
14	k0	359	LYS	C-N-CA	6.45	126.14	119.56
14	e6	392	SER	CA-C-N	6.44	126.66	119.32
14	e6	392	SER	C-N-CA	6.44	126.66	119.32
14	d0	36	ASN	CA-CB-CG	6.44	119.04	112.60
14	d6	359	LYS	CA-C-N	6.44	126.12	119.56
14	d6	359	LYS	C-N-CA	6.44	126.12	119.56
14	e9	268	ASN	CA-C-N	6.44	126.12	119.56
14	e9	268	ASN	C-N-CA	6.44	126.12	119.56
14	i6	359	LYS	CA-C-N	6.43	126.12	119.56
14	i6	359	LYS	C-N-CA	6.43	126.12	119.56
14	j4	392	SER	CA-C-N	6.43	126.65	119.32
14	j4	392	SER	C-N-CA	6.43	126.65	119.32
14	f5	359	LYS	CA-C-N	6.43	126.12	119.56
14	f5	359	LYS	C-N-CA	6.43	126.12	119.56
3	a2	197	TYR	CA-C-N	-6.42	112.31	121.50
3	a2	197	TYR	C-N-CA	-6.42	112.31	121.50
14	e3	392	SER	CA-C-N	6.42	126.63	119.32
14	e3	392	SER	C-N-CA	6.42	126.63	119.32
14	d9	245	THR	N-CA-C	6.41	118.30	108.42
14	i6	347	THR	CA-C-N	6.41	126.32	119.85
14	i6	347	THR	C-N-CA	6.41	126.32	119.85
14	f4	392	SER	CA-C-N	6.40	126.62	119.32
14	f4	392	SER	C-N-CA	6.40	126.62	119.32
14	k8	359	LYS	CA-C-N	6.40	126.09	119.56
14	k8	359	LYS	C-N-CA	6.40	126.09	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h8	240	THR	CA-C-N	6.40	126.85	120.52
14	h8	240	THR	C-N-CA	6.40	126.85	120.52
14	i1	392	SER	CA-C-N	6.40	126.61	119.32
14	i1	392	SER	C-N-CA	6.40	126.61	119.32
14	i7	359	LYS	CA-C-N	6.40	126.09	119.56
14	i7	359	LYS	C-N-CA	6.40	126.09	119.56
14	j5	257	HIS	CA-C-N	6.40	127.84	119.84
14	j5	257	HIS	C-N-CA	6.40	127.84	119.84
14	j6	392	SER	CA-C-N	6.40	126.89	119.47
14	j6	392	SER	C-N-CA	6.40	126.89	119.47
14	i3	240	THR	CA-C-N	6.39	126.35	120.21
14	i3	240	THR	C-N-CA	6.39	126.35	120.21
14	g0	87	TYR	CA-C-N	6.39	126.07	119.56
14	g0	87	TYR	C-N-CA	6.39	126.07	119.56
14	k3	257	HIS	CA-C-N	6.38	127.82	119.84
14	k3	257	HIS	C-N-CA	6.38	127.82	119.84
14	k6	312	VAL	N-CA-C	6.38	119.03	112.90
14	f0	240	THR	CA-C-N	6.38	126.35	119.78
14	f0	240	THR	C-N-CA	6.38	126.35	119.78
14	k9	27	PHE	CA-CB-CG	-6.38	107.42	113.80
4	a4	120	CYS	CA-C-N	6.38	126.35	119.78
4	a4	120	CYS	C-N-CA	6.38	126.35	119.78
14	e2	312	VAL	N-CA-C	6.38	119.28	113.10
14	j9	156	ASN	CA-CB-CG	6.38	118.98	112.60
14	e2	399	ASN	CA-CB-CG	6.38	118.97	112.60
14	h3	64	GLY	N-CA-C	-6.37	105.15	112.79
14	d9	297	THR	CA-C-N	6.37	126.33	120.03
14	d9	297	THR	C-N-CA	6.37	126.33	120.03
14	g8	347	THR	CA-C-N	6.36	126.33	120.03
14	g8	347	THR	C-N-CA	6.36	126.33	120.03
14	f9	213	THR	N-CA-C	6.36	117.88	111.07
14	l3	392	SER	CA-C-N	6.36	126.57	119.32
14	l3	392	SER	C-N-CA	6.36	126.57	119.32
14	d4	125	ASP	CA-CB-CG	6.36	118.96	112.60
14	d7	125	ASP	N-CA-C	-6.36	104.28	111.14
14	i4	268	ASN	CA-C-N	6.36	126.04	119.56
14	i4	268	ASN	C-N-CA	6.36	126.04	119.56
14	e9	392	SER	CA-C-N	6.36	127.78	119.84
14	e9	392	SER	C-N-CA	6.36	127.78	119.84
14	l3	359	LYS	CA-C-N	6.35	126.04	119.56
14	l3	359	LYS	C-N-CA	6.35	126.04	119.56
14	k9	245	THR	N-CA-C	6.35	118.20	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i1	312	VAL	N-CA-C	6.35	119.00	112.90
14	e0	392	SER	CA-C-N	6.35	126.83	119.47
14	e0	392	SER	C-N-CA	6.35	126.83	119.47
14	j9	359	LYS	CA-C-N	6.35	126.04	119.56
14	j9	359	LYS	C-N-CA	6.35	126.04	119.56
14	l0	87	TYR	CA-C-N	6.35	126.03	119.56
14	l0	87	TYR	C-N-CA	6.35	126.03	119.56
14	e8	87	TYR	CA-C-N	6.34	126.03	119.56
14	e8	87	TYR	C-N-CA	6.34	126.03	119.56
14	g6	87	TYR	CA-C-N	6.34	126.03	119.56
14	g6	87	TYR	C-N-CA	6.34	126.03	119.56
14	i5	297	THR	CA-C-N	6.34	126.80	120.52
14	i5	297	THR	C-N-CA	6.34	126.80	120.52
14	k1	347	THR	CA-C-N	6.33	126.25	119.85
14	k1	347	THR	C-N-CA	6.33	126.25	119.85
14	f1	240	THR	CA-C-N	6.33	126.79	120.52
14	f1	240	THR	C-N-CA	6.33	126.79	120.52
14	d0	87	TYR	CA-C-N	6.33	126.01	119.56
14	d0	87	TYR	C-N-CA	6.33	126.01	119.56
14	d8	400	THR	N-CA-C	6.33	118.69	110.53
14	g8	297	THR	CA-C-N	6.33	126.29	120.03
14	g8	297	THR	C-N-CA	6.33	126.29	120.03
14	e2	392	SER	CA-C-N	6.32	126.53	119.32
14	e2	392	SER	C-N-CA	6.32	126.53	119.32
14	i4	392	SER	CA-C-N	6.32	126.53	119.32
14	i4	392	SER	C-N-CA	6.32	126.53	119.32
14	g1	392	SER	CA-C-N	6.32	126.80	119.47
14	g1	392	SER	C-N-CA	6.32	126.80	119.47
14	h9	297	THR	CA-C-N	6.32	126.77	120.52
14	h9	297	THR	C-N-CA	6.32	126.77	120.52
14	e8	347	THR	CA-C-N	6.32	126.28	120.03
14	e8	347	THR	C-N-CA	6.32	126.28	120.03
14	e9	297	THR	CA-C-N	6.32	126.28	120.03
14	e9	297	THR	C-N-CA	6.32	126.28	120.03
14	h2	392	SER	CA-C-N	6.31	126.79	119.47
14	h2	392	SER	C-N-CA	6.31	126.79	119.47
14	d4	245	THR	N-CA-C	6.30	118.13	108.42
14	d9	392	SER	CA-C-N	6.30	126.50	119.32
14	d9	392	SER	C-N-CA	6.30	126.50	119.32
14	i6	27	PHE	N-CA-C	6.30	121.74	113.30
14	e0	87	TYR	CA-C-N	6.29	126.20	119.28
14	e0	87	TYR	C-N-CA	6.29	126.20	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	j9	392	SER	CA-C-N	6.29	126.50	119.32
14	j9	392	SER	C-N-CA	6.29	126.50	119.32
14	d0	312	VAL	N-CA-C	6.29	118.93	112.90
14	f1	297	THR	CA-C-N	6.28	126.74	120.52
14	f1	297	THR	C-N-CA	6.28	126.74	120.52
14	g9	347	THR	CA-C-N	6.28	126.25	120.03
14	g9	347	THR	C-N-CA	6.28	126.25	120.03
14	e4	392	SER	CA-C-N	6.27	126.47	119.32
14	e4	392	SER	C-N-CA	6.27	126.47	119.32
14	f6	240	THR	CA-C-N	6.27	126.73	120.52
14	f6	240	THR	C-N-CA	6.27	126.73	120.52
14	i3	392	SER	CA-C-N	6.27	126.47	119.32
14	i3	392	SER	C-N-CA	6.27	126.47	119.32
14	j3	392	SER	CA-C-N	6.27	126.75	119.47
14	j3	392	SER	C-N-CA	6.27	126.75	119.47
14	g6	392	SER	CA-C-N	6.27	126.47	119.32
14	g6	392	SER	C-N-CA	6.27	126.47	119.32
14	f4	87	TYR	CA-C-N	6.27	125.95	119.56
14	f4	87	TYR	C-N-CA	6.27	125.95	119.56
14	h2	213	THR	N-CA-C	6.27	118.63	111.11
14	e4	125	ASP	N-CA-C	-6.27	104.37	111.14
14	j2	245	THR	N-CA-C	6.26	118.04	108.52
14	d1	27	PHE	CA-CB-CG	-6.26	107.54	113.80
14	d0	392	SER	CA-C-N	6.26	126.46	119.32
14	d0	392	SER	C-N-CA	6.26	126.46	119.32
14	i7	87	TYR	CA-C-N	6.26	125.94	119.56
14	i7	87	TYR	C-N-CA	6.26	125.94	119.56
14	i9	392	SER	CA-C-N	6.25	126.72	119.47
14	i9	392	SER	C-N-CA	6.25	126.72	119.47
14	i0	388	ILE	N-CA-C	6.25	117.58	108.58
14	f5	347	THR	CA-C-N	6.25	126.21	120.03
14	f5	347	THR	C-N-CA	6.25	126.21	120.03
14	j8	359	LYS	CA-C-N	6.25	125.93	119.56
14	j8	359	LYS	C-N-CA	6.25	125.93	119.56
14	d8	297	THR	CA-C-N	6.24	126.21	120.03
14	d8	297	THR	C-N-CA	6.24	126.21	120.03
14	f3	347	THR	CA-C-N	6.24	126.15	119.85
14	f3	347	THR	C-N-CA	6.24	126.15	119.85
14	j5	87	TYR	CA-C-N	6.24	125.92	119.56
14	j5	87	TYR	C-N-CA	6.24	125.92	119.56
14	k5	359	LYS	CA-C-N	6.24	125.92	119.56
14	k5	359	LYS	C-N-CA	6.24	125.92	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	k2	347	THR	CA-C-N	6.24	126.15	119.85
14	k2	347	THR	C-N-CA	6.24	126.15	119.85
12	c8	137	PHE	CA-C-N	6.23	124.17	120.24
12	c8	137	PHE	C-N-CA	6.23	124.17	120.24
14	d1	87	TYR	CA-C-N	6.23	126.14	119.28
14	d1	87	TYR	C-N-CA	6.23	126.14	119.28
14	e8	392	SER	CA-C-N	6.23	126.70	119.47
14	e8	392	SER	C-N-CA	6.23	126.70	119.47
14	j8	245	THR	N-CA-C	6.23	116.66	107.88
14	d1	245	THR	N-CA-C	6.22	118.60	108.76
14	h4	392	SER	CA-C-N	6.22	126.69	119.47
14	h4	392	SER	C-N-CA	6.22	126.69	119.47
14	e6	257	HIS	CA-C-N	6.22	127.62	119.84
14	e6	257	HIS	C-N-CA	6.22	127.62	119.84
14	k1	125	ASP	N-CA-C	-6.22	104.42	111.14
14	e2	125	ASP	N-CA-C	-6.22	104.42	111.14
14	h6	268	ASN	CA-C-N	6.22	125.90	119.56
14	h6	268	ASN	C-N-CA	6.22	125.90	119.56
14	k6	87	TYR	CA-C-N	6.22	126.12	119.28
14	k6	87	TYR	C-N-CA	6.22	126.12	119.28
14	e4	297	THR	CA-C-N	6.21	126.67	120.52
14	e4	297	THR	C-N-CA	6.21	126.67	120.52
14	f6	359	LYS	CA-C-N	6.21	125.90	119.56
14	f6	359	LYS	C-N-CA	6.21	125.90	119.56
14	e8	359	LYS	CA-C-N	6.21	125.90	119.56
14	e8	359	LYS	C-N-CA	6.21	125.90	119.56
14	i3	87	TYR	CA-C-N	6.21	126.11	119.28
14	i3	87	TYR	C-N-CA	6.21	126.11	119.28
14	d7	213	THR	N-CA-C	6.21	117.71	111.07
14	i7	401	GLU	N-CA-C	6.20	118.12	111.36
14	g9	297	THR	CA-C-N	6.20	126.38	120.31
14	g9	297	THR	C-N-CA	6.20	126.38	120.31
14	i8	392	SER	CA-C-N	6.20	126.66	119.47
14	i8	392	SER	C-N-CA	6.20	126.66	119.47
14	i5	392	SER	CA-C-N	6.20	126.38	119.32
14	i5	392	SER	C-N-CA	6.20	126.38	119.32
14	j1	392	SER	CA-C-N	6.20	126.38	119.32
14	j1	392	SER	C-N-CA	6.20	126.38	119.32
14	f1	347	THR	CA-C-N	6.19	126.10	119.85
14	f1	347	THR	C-N-CA	6.19	126.10	119.85
14	i7	392	SER	CA-C-N	6.19	126.65	119.47
14	i7	392	SER	C-N-CA	6.19	126.65	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e9	27	PHE	CA-CB-CG	-6.18	107.62	113.80
14	f0	27	PHE	CA-CB-CG	-6.18	107.62	113.80
14	f4	125	ASP	CA-CB-CG	6.18	118.78	112.60
14	h0	392	SER	CA-C-N	6.18	126.36	119.32
14	h0	392	SER	C-N-CA	6.18	126.36	119.32
14	g5	87	TYR	CA-C-N	6.18	126.07	119.28
14	g5	87	TYR	C-N-CA	6.18	126.07	119.28
14	k8	125	ASP	N-CA-C	-6.17	104.47	111.14
14	e4	21	ASN	CA-C-N	6.17	126.14	119.78
14	e4	21	ASN	C-N-CA	6.17	126.14	119.78
14	d7	359	LYS	CA-C-N	6.17	125.85	119.56
14	d7	359	LYS	C-N-CA	6.17	125.85	119.56
14	h1	87	TYR	CA-C-N	6.17	125.85	119.56
14	h1	87	TYR	C-N-CA	6.17	125.85	119.56
14	l2	87	TYR	CA-C-N	6.17	125.85	119.56
14	l2	87	TYR	C-N-CA	6.17	125.85	119.56
14	j3	123	ASN	CB-CA-C	-6.17	109.45	116.54
14	l3	347	THR	CA-C-N	6.16	126.08	119.85
14	l3	347	THR	C-N-CA	6.16	126.08	119.85
14	h3	87	TYR	CA-C-N	6.16	126.05	119.28
14	h3	87	TYR	C-N-CA	6.16	126.05	119.28
14	k1	87	TYR	CA-C-N	6.16	126.06	119.28
14	k1	87	TYR	C-N-CA	6.16	126.06	119.28
14	g1	87	TYR	CA-C-N	6.16	126.05	119.28
14	g1	87	TYR	C-N-CA	6.16	126.05	119.28
14	g6	27	PHE	CA-CB-CG	-6.15	107.65	113.80
14	d5	312	VAL	N-CA-C	6.15	118.80	112.90
14	k0	213	THR	N-CA-C	6.15	117.65	111.07
12	c7	81	SER	CA-C-N	6.14	133.28	121.54
12	c7	81	SER	C-N-CA	6.14	133.28	121.54
14	e4	257	HIS	CA-C-N	6.14	127.52	119.84
14	e4	257	HIS	C-N-CA	6.14	127.52	119.84
14	g4	388	ILE	N-CA-C	6.14	117.00	108.89
14	l3	87	TYR	CA-C-N	6.14	126.04	119.28
14	l3	87	TYR	C-N-CA	6.14	126.04	119.28
14	i9	87	TYR	CA-C-N	6.14	126.03	119.28
14	i9	87	TYR	C-N-CA	6.14	126.03	119.28
14	j4	87	TYR	CA-C-N	6.14	125.82	119.56
14	j4	87	TYR	C-N-CA	6.14	125.82	119.56
14	j4	376	ASN	N-CA-C	6.14	118.62	108.49
14	f8	388	ILE	N-CA-C	6.14	116.99	108.89
14	i0	392	SER	CA-C-N	6.14	126.32	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i0	392	SER	C-N-CA	6.14	126.32	119.32
14	g1	245	THR	N-CA-C	6.13	116.53	107.88
14	h8	87	TYR	CA-C-N	6.13	125.81	119.56
14	h8	87	TYR	C-N-CA	6.13	125.81	119.56
14	d2	268	ASN	CA-C-N	6.13	125.81	119.56
14	d2	268	ASN	C-N-CA	6.13	125.81	119.56
14	d8	240	THR	CA-C-N	6.13	126.09	119.78
14	d8	240	THR	C-N-CA	6.13	126.09	119.78
14	k5	123	ASN	CB-CA-C	-6.13	109.50	116.54
14	d7	105	ILE	N-CA-C	-6.12	105.85	111.67
14	d8	90	GLU	N-CA-C	-6.12	104.16	111.69
14	l3	312	VAL	N-CA-C	6.12	118.78	112.90
14	h5	392	SER	CA-C-N	6.12	126.30	119.32
14	h5	392	SER	C-N-CA	6.12	126.30	119.32
14	i0	87	TYR	CA-C-N	6.12	126.01	119.28
14	i0	87	TYR	C-N-CA	6.12	126.01	119.28
14	k7	87	TYR	CA-C-N	6.12	125.80	119.56
14	k7	87	TYR	C-N-CA	6.12	125.80	119.56
14	j8	281	ILE	N-CA-C	-6.12	101.11	108.45
14	k6	392	SER	CA-C-N	6.12	126.56	119.47
14	k6	392	SER	C-N-CA	6.12	126.56	119.47
14	h9	123	ASN	CB-CA-C	-6.11	109.51	116.54
14	j7	392	SER	CA-C-N	6.11	126.56	119.47
14	j7	392	SER	C-N-CA	6.11	126.56	119.47
14	e2	347	THR	CA-C-N	6.11	126.02	119.85
14	e2	347	THR	C-N-CA	6.11	126.02	119.85
14	f7	399	ASN	N-CA-C	6.11	118.78	110.35
14	f0	87	TYR	CA-C-N	6.11	126.00	119.28
14	f0	87	TYR	C-N-CA	6.11	126.00	119.28
14	d7	245	THR	N-CA-C	6.10	118.40	108.76
14	h3	312	VAL	N-CA-C	6.10	118.76	112.90
14	i3	245	THR	N-CA-C	6.10	117.82	108.42
14	f2	388	ILE	N-CA-C	6.10	116.94	108.89
14	d4	213	THR	N-CA-C	6.10	117.59	111.07
14	d6	125	ASP	N-CA-C	-6.09	104.56	111.14
14	i0	240	THR	CA-C-N	6.09	126.06	119.78
14	i0	240	THR	C-N-CA	6.09	126.06	119.78
14	l2	347	THR	CA-C-N	6.09	126.00	119.85
14	l2	347	THR	C-N-CA	6.09	126.00	119.85
14	f9	245	THR	N-CA-C	6.09	118.38	108.76
14	g8	392	SER	CA-C-N	6.09	126.26	119.32
14	g8	392	SER	C-N-CA	6.09	126.26	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h4	347	THR	CA-C-N	6.09	126.00	119.85
14	h4	347	THR	C-N-CA	6.09	126.00	119.85
14	j1	87	TYR	CA-C-N	6.08	125.97	119.28
14	j1	87	TYR	C-N-CA	6.08	125.97	119.28
15	l4	84	GLY	CA-C-N	6.08	126.53	119.47
15	l4	84	GLY	C-N-CA	6.08	126.53	119.47
6	a6	104	PHE	CA-C-N	6.08	126.00	119.85
6	a6	104	PHE	C-N-CA	6.08	126.00	119.85
14	d1	125	ASP	CA-CB-CG	6.08	118.68	112.60
14	g9	213	THR	N-CA-C	6.08	117.57	111.07
14	i1	245	THR	N-CA-C	6.08	118.36	108.76
14	j4	123	ASN	CB-CA-C	-6.08	109.55	116.54
14	f0	125	ASP	CA-CB-CG	6.07	118.67	112.60
14	f2	21	ASN	CA-C-N	6.07	126.03	119.78
14	f2	21	ASN	C-N-CA	6.07	126.03	119.78
14	i2	347	THR	CA-C-N	6.07	125.98	119.85
14	i2	347	THR	C-N-CA	6.07	125.98	119.85
14	e6	268	ASN	CA-C-N	6.07	125.75	119.56
14	e6	268	ASN	C-N-CA	6.07	125.75	119.56
14	g9	123	ASN	CB-CA-C	-6.07	109.56	116.54
14	k4	430	MET	CA-C-N	-6.06	116.78	122.17
14	k4	430	MET	C-N-CA	-6.06	116.78	122.17
14	d6	312	VAL	N-CA-C	6.06	118.71	112.90
14	d7	347	THR	CA-C-N	6.06	125.97	119.85
14	d7	347	THR	C-N-CA	6.06	125.97	119.85
14	j4	257	HIS	CA-C-N	6.05	127.41	119.84
14	j4	257	HIS	C-N-CA	6.05	127.41	119.84
14	i7	312	VAL	N-CA-C	6.05	118.71	112.90
14	f5	87	TYR	CA-C-N	6.05	125.93	119.28
14	f5	87	TYR	C-N-CA	6.05	125.93	119.28
14	d2	245	THR	N-CA-C	6.05	118.31	108.76
14	k7	359	LYS	CA-C-N	6.04	125.72	119.56
14	k7	359	LYS	C-N-CA	6.04	125.72	119.56
14	f0	388	ILE	N-CA-C	6.04	116.86	108.89
14	f1	90	GLU	N-CA-C	-6.04	104.27	111.69
14	k3	213	THR	N-CA-C	6.04	117.53	111.07
14	e1	297	THR	CA-C-N	6.03	126.00	120.03
14	e1	297	THR	C-N-CA	6.03	126.00	120.03
14	g4	312	VAL	N-CA-C	6.03	118.69	112.90
14	i0	125	ASP	N-CA-C	-6.03	104.62	111.14
14	k2	125	ASP	CA-CB-CG	6.03	118.63	112.60
14	l2	245	THR	N-CA-C	6.03	118.29	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	f1	268	ASN	CA-C-N	6.03	125.71	119.56
14	f1	268	ASN	C-N-CA	6.03	125.71	119.56
14	h1	297	THR	CA-C-N	6.03	126.21	120.31
14	h1	297	THR	C-N-CA	6.03	126.21	120.31
14	h4	87	TYR	CA-C-N	6.03	125.71	119.56
14	h4	87	TYR	C-N-CA	6.03	125.71	119.56
14	g6	245	THR	N-CA-C	6.02	117.67	108.52
14	i2	240	THR	CA-C-N	6.02	125.98	119.78
14	i2	240	THR	C-N-CA	6.02	125.98	119.78
14	l0	347	THR	CA-C-N	6.02	125.99	120.03
14	l0	347	THR	C-N-CA	6.02	125.99	120.03
14	e5	21	ASN	CA-C-N	6.02	125.98	119.78
14	e5	21	ASN	C-N-CA	6.02	125.98	119.78
14	h8	245	THR	N-CA-C	6.02	117.67	108.52
14	e1	399	ASN	N-CA-C	6.02	118.66	110.35
14	g1	125	ASP	N-CA-C	-6.02	104.64	111.14
14	g7	392	SER	CA-C-N	6.02	126.18	119.32
14	g7	392	SER	C-N-CA	6.02	126.18	119.32
14	j1	268	ASN	CA-C-N	6.02	125.70	119.56
14	j1	268	ASN	C-N-CA	6.02	125.70	119.56
14	f7	122	MET	N-CA-C	6.02	117.38	108.60
14	j3	245	THR	N-CA-C	6.01	118.26	108.76
14	d8	87	TYR	CA-C-N	6.01	125.89	119.28
14	d8	87	TYR	C-N-CA	6.01	125.89	119.28
14	e9	87	TYR	CA-C-N	6.01	125.89	119.28
14	e9	87	TYR	C-N-CA	6.01	125.89	119.28
14	e0	245	THR	N-CA-C	6.00	117.66	108.42
14	e4	347	THR	CA-C-N	6.00	125.91	119.85
14	e4	347	THR	C-N-CA	6.00	125.91	119.85
14	j5	27	PHE	CA-CB-CG	-6.00	107.80	113.80
14	f2	87	TYR	CA-C-N	6.00	125.88	119.28
14	f2	87	TYR	C-N-CA	6.00	125.88	119.28
14	j9	87	TYR	CA-C-N	5.99	125.87	119.28
14	j9	87	TYR	C-N-CA	5.99	125.87	119.28
14	k5	27	PHE	CA-CB-CG	-5.99	107.81	113.80
14	f9	297	THR	CA-C-N	5.99	125.96	120.03
14	f9	297	THR	C-N-CA	5.99	125.96	120.03
14	k7	430	MET	CA-C-N	-5.98	116.84	122.17
14	k7	430	MET	C-N-CA	-5.98	116.84	122.17
2	a1	202	THR	CB-CA-C	5.97	118.98	110.02
14	e0	240	THR	CA-C-N	5.97	126.16	120.31
14	e0	240	THR	C-N-CA	5.97	126.16	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	f9	87	TYR	CA-C-N	5.97	125.65	119.56
14	f9	87	TYR	C-N-CA	5.97	125.65	119.56
14	f9	257	HIS	CA-C-N	5.97	127.31	119.84
14	f9	257	HIS	C-N-CA	5.97	127.31	119.84
14	g3	388	ILE	N-CA-C	5.97	116.77	108.89
14	k8	312	VAL	N-CA-C	5.97	117.51	111.00
14	l0	392	SER	CA-C-N	5.97	126.39	119.47
14	l0	392	SER	C-N-CA	5.97	126.39	119.47
14	l2	74	PHE	CA-CB-CG	5.97	119.77	113.80
14	i1	31	TYR	N-CA-C	-5.96	101.66	110.48
14	e5	87	TYR	CA-C-N	5.96	125.64	119.56
14	e5	87	TYR	C-N-CA	5.96	125.64	119.56
14	f9	90	GLU	N-CA-C	-5.96	104.36	111.69
14	d2	222	LEU	CA-C-N	5.96	125.93	120.03
14	d2	222	LEU	C-N-CA	5.96	125.93	120.03
14	e3	87	TYR	CA-C-N	5.96	125.83	119.28
14	e3	87	TYR	C-N-CA	5.96	125.83	119.28
14	e0	199	GLN	CA-C-N	5.96	125.86	119.85
14	e0	199	GLN	C-N-CA	5.96	125.86	119.85
14	i5	87	TYR	CA-C-N	5.95	125.83	119.28
14	i5	87	TYR	C-N-CA	5.95	125.83	119.28
14	e0	268	ASN	CA-C-N	5.95	125.63	119.56
14	e0	268	ASN	C-N-CA	5.95	125.63	119.56
4	a4	140	GLY	CA-C-N	5.94	127.27	119.84
4	a4	140	GLY	C-N-CA	5.94	127.27	119.84
14	e0	297	THR	CA-C-N	5.94	125.91	120.03
14	e0	297	THR	C-N-CA	5.94	125.91	120.03
14	i4	149	VAL	CA-C-N	5.94	125.85	119.85
14	i4	149	VAL	C-N-CA	5.94	125.85	119.85
14	j5	297	THR	CA-C-N	5.94	126.13	120.31
14	j5	297	THR	C-N-CA	5.94	126.13	120.31
14	d2	125	ASP	CA-CB-CG	5.94	118.54	112.60
14	f1	39	ILE	N-CA-C	5.93	116.42	108.11
14	d4	90	GLU	N-CA-C	-5.93	104.39	111.69
14	k9	347	THR	CA-C-N	5.93	125.84	119.85
14	k9	347	THR	C-N-CA	5.93	125.84	119.85
14	e7	392	SER	CA-C-N	5.93	126.08	119.32
14	e7	392	SER	C-N-CA	5.93	126.08	119.32
14	i4	125	ASP	CA-CB-CG	5.93	118.53	112.60
14	i7	158	THR	CA-C-N	5.93	126.35	119.47
14	i7	158	THR	C-N-CA	5.93	126.35	119.47
14	j2	87	TYR	CA-C-N	5.93	125.80	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	j2	87	TYR	C-N-CA	5.93	125.80	119.28
14	l1	392	SER	CA-C-N	5.93	126.08	119.32
14	l1	392	SER	C-N-CA	5.93	126.08	119.32
14	h8	105	ILE	N-CA-C	-5.92	106.04	111.67
14	j5	240	THR	CA-C-N	5.92	125.90	120.03
14	j5	240	THR	C-N-CA	5.92	125.90	120.03
14	f6	87	TYR	CA-C-N	5.92	125.79	119.28
14	f6	87	TYR	C-N-CA	5.92	125.79	119.28
14	h9	87	TYR	CA-C-N	5.92	125.79	119.28
14	h9	87	TYR	C-N-CA	5.92	125.79	119.28
14	i1	74	PHE	CA-CB-CG	5.92	119.72	113.80
14	e8	257	HIS	CA-C-N	5.92	127.24	119.84
14	e8	257	HIS	C-N-CA	5.92	127.24	119.84
14	e6	297	THR	CA-C-N	5.91	125.89	120.03
14	e6	297	THR	C-N-CA	5.91	125.89	120.03
14	h6	87	TYR	CA-C-N	5.91	125.78	119.28
14	h6	87	TYR	C-N-CA	5.91	125.78	119.28
14	d8	21	ASN	CA-C-N	5.91	125.87	119.78
14	d8	21	ASN	C-N-CA	5.91	125.87	119.78
14	h5	87	TYR	CA-C-N	5.91	125.78	119.28
14	h5	87	TYR	C-N-CA	5.91	125.78	119.28
14	d2	87	TYR	CA-C-N	5.91	125.78	119.28
14	d2	87	TYR	C-N-CA	5.91	125.78	119.28
14	k5	281	ILE	N-CA-C	-5.91	101.36	108.45
14	j5	123	ASN	CB-CA-C	-5.90	109.75	116.54
14	j7	158	THR	CA-C-N	5.90	126.32	119.47
14	j7	158	THR	C-N-CA	5.90	126.32	119.47
14	g4	123	ASN	CB-CA-C	-5.90	109.76	116.54
14	i6	87	TYR	CA-C-N	5.90	125.77	119.28
14	i6	87	TYR	C-N-CA	5.90	125.77	119.28
14	i2	392	SER	CA-C-N	5.90	126.04	119.32
14	i2	392	SER	C-N-CA	5.90	126.04	119.32
14	g9	87	TYR	CA-C-N	5.89	125.76	119.28
14	g9	87	TYR	C-N-CA	5.89	125.76	119.28
14	l1	63	ASN	CA-CB-CG	5.89	118.50	112.60
14	d8	312	VAL	N-CA-C	5.89	118.56	112.90
14	f6	125	ASP	N-CA-C	-5.89	104.78	111.14
14	g1	105	ILE	N-CA-C	-5.89	105.34	111.58
14	j3	388	ILE	N-CA-C	5.89	116.66	108.89
13	c9	26	GLY	N-CA-C	-5.89	101.54	112.37
14	d5	240	THR	CA-C-N	5.89	126.35	120.52
14	d5	240	THR	C-N-CA	5.89	126.35	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h4	125	ASP	N-CA-C	-5.89	104.94	111.36
14	i0	312	VAL	N-CA-C	5.88	118.55	112.90
14	h8	388	ILE	N-CA-C	5.88	116.65	108.89
14	h5	27	PHE	CA-CB-CG	-5.88	107.92	113.80
14	j6	87	TYR	CA-C-N	5.88	125.74	119.28
14	j6	87	TYR	C-N-CA	5.88	125.74	119.28
14	k3	268	ASN	CA-C-N	5.87	126.28	119.47
14	k3	268	ASN	C-N-CA	5.87	126.28	119.47
14	f8	87	TYR	CA-C-N	5.87	125.55	119.56
14	f8	87	TYR	C-N-CA	5.87	125.55	119.56
14	h2	359	LYS	CA-C-N	5.87	125.55	119.56
14	h2	359	LYS	C-N-CA	5.87	125.55	119.56
14	d2	257	HIS	CA-C-N	5.87	127.18	119.84
14	d2	257	HIS	C-N-CA	5.87	127.18	119.84
14	h3	245	THR	N-CA-C	5.87	118.03	108.76
14	i0	347	THR	CA-C-N	5.87	125.78	119.85
14	i0	347	THR	C-N-CA	5.87	125.78	119.85
14	j0	347	THR	CA-C-N	5.87	125.78	119.85
14	j0	347	THR	C-N-CA	5.87	125.78	119.85
14	d5	21	ASN	CA-C-N	5.87	125.82	119.78
14	d5	21	ASN	C-N-CA	5.87	125.82	119.78
11	c5	11	ILE	N-CA-C	-5.87	107.09	112.96
14	h0	125	ASP	N-CA-C	-5.87	104.81	111.14
14	l0	233	PHE	N-CA-C	5.87	117.94	108.32
14	l2	125	ASP	CA-CB-CG	5.87	118.47	112.60
14	h3	297	THR	CA-C-N	5.86	125.83	120.03
14	h3	297	THR	C-N-CA	5.86	125.83	120.03
14	d4	87	TYR	CA-C-N	5.86	125.73	119.28
14	d4	87	TYR	C-N-CA	5.86	125.73	119.28
14	e4	87	TYR	CA-C-N	5.86	125.73	119.28
14	e4	87	TYR	C-N-CA	5.86	125.73	119.28
14	d3	123	ASN	CB-CA-C	-5.86	109.80	116.54
14	g7	87	TYR	CA-C-N	5.86	125.72	119.28
14	g7	87	TYR	C-N-CA	5.86	125.72	119.28
7	a7	123	THR	N-CA-C	5.86	116.82	108.74
14	e2	240	THR	CA-C-N	5.86	125.81	119.78
14	e2	240	THR	C-N-CA	5.86	125.81	119.78
14	g1	240	THR	CA-C-N	5.86	125.83	120.21
14	g1	240	THR	C-N-CA	5.86	125.83	120.21
14	k7	388	ILE	N-CA-C	5.86	116.62	108.89
14	i4	148	TYR	CA-C-N	-5.85	116.18	122.85
14	i4	148	TYR	C-N-CA	-5.85	116.18	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d5	222	LEU	CA-C-N	5.85	125.76	119.85
14	d5	222	LEU	C-N-CA	5.85	125.76	119.85
14	d5	245	THR	N-CA-C	5.85	118.00	108.76
14	f4	297	THR	CA-C-N	5.85	126.04	120.31
14	f4	297	THR	C-N-CA	5.85	126.04	120.31
14	h9	392	SER	CA-C-N	5.84	125.98	119.32
14	h9	392	SER	C-N-CA	5.84	125.98	119.32
14	f1	312	VAL	N-CA-C	5.84	117.37	111.00
14	i3	199	GLN	CA-C-N	5.84	125.75	119.85
14	i3	199	GLN	C-N-CA	5.84	125.75	119.85
14	f0	312	VAL	N-CA-C	5.84	118.51	112.90
14	i2	245	THR	N-CA-C	5.84	116.12	107.88
14	d6	299	ASP	N-CA-C	-5.84	98.19	108.23
14	e7	87	TYR	CA-C-N	5.84	125.70	119.28
14	e7	87	TYR	C-N-CA	5.84	125.70	119.28
14	k5	90	GLU	N-CA-C	-5.84	104.51	111.69
14	g2	245	THR	N-CA-C	5.84	117.72	108.79
14	d3	27	PHE	CA-CB-CG	-5.83	107.97	113.80
14	h0	27	PHE	CA-CB-CG	-5.83	107.97	113.80
14	l1	87	TYR	CA-C-N	5.83	125.69	119.28
14	l1	87	TYR	C-N-CA	5.83	125.69	119.28
14	d3	312	VAL	N-CA-C	5.83	118.49	112.90
14	j8	257	HIS	CA-C-N	5.83	127.12	119.84
14	j8	257	HIS	C-N-CA	5.83	127.12	119.84
14	g5	245	THR	N-CA-C	5.82	117.96	108.76
14	f0	400	THR	N-CA-C	5.82	118.04	110.53
14	f2	268	ASN	CA-C-N	5.82	125.50	119.56
14	f2	268	ASN	C-N-CA	5.82	125.50	119.56
14	g2	87	TYR	CA-C-N	5.82	125.68	119.28
14	g2	87	TYR	C-N-CA	5.82	125.68	119.28
14	g8	125	ASP	CA-CB-CG	5.82	118.42	112.60
14	g7	245	THR	N-CA-C	5.82	117.95	108.76
14	j3	257	HIS	CA-C-N	5.81	127.11	119.84
14	j3	257	HIS	C-N-CA	5.81	127.11	119.84
14	k8	297	THR	CA-C-N	5.81	126.00	120.31
14	k8	297	THR	C-N-CA	5.81	126.00	120.31
14	f7	375	ASP	CA-C-O	-5.81	114.72	120.82
14	k0	87	TYR	CA-C-N	5.81	125.67	119.28
14	k0	87	TYR	C-N-CA	5.81	125.67	119.28
6	a6	133	ILE	CA-C-N	5.80	125.76	119.78
6	a6	133	ILE	C-N-CA	5.80	125.76	119.78
14	f0	401	GLU	N-CA-C	5.80	117.61	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	f8	257	HIS	CA-C-N	5.80	127.09	119.84
14	f8	257	HIS	C-N-CA	5.80	127.09	119.84
14	j8	240	THR	CA-C-N	5.80	125.78	120.03
14	j8	240	THR	C-N-CA	5.80	125.78	120.03
14	f5	240	THR	CA-C-N	5.80	125.76	119.78
14	f5	240	THR	C-N-CA	5.80	125.76	119.78
14	i2	87	TYR	CA-C-N	5.80	125.66	119.28
14	i2	87	TYR	C-N-CA	5.80	125.66	119.28
14	j0	90	GLU	N-CA-C	-5.80	104.55	111.69
14	d3	87	TYR	CA-C-N	5.80	125.66	119.28
14	d3	87	TYR	C-N-CA	5.80	125.66	119.28
14	k6	123	ASN	CB-CA-C	-5.80	109.87	116.54
14	j3	122	MET	N-CA-C	5.80	117.66	108.79
14	f1	21	ASN	CA-C-N	5.80	125.75	119.78
14	f1	21	ASN	C-N-CA	5.80	125.75	119.78
14	g3	392	SER	CA-C-N	5.80	125.93	119.32
14	g3	392	SER	C-N-CA	5.80	125.93	119.32
9	b2	190	PRO	N-CA-C	-5.79	108.02	114.92
14	e1	27	PHE	CA-CB-CG	-5.79	108.00	113.80
14	f7	375	ASP	N-CA-C	5.79	117.27	111.07
14	j9	90	GLU	N-CA-C	-5.79	104.57	111.69
4	a4	105	LYS	CA-C-N	5.79	125.74	119.78
4	a4	105	LYS	C-N-CA	5.79	125.74	119.78
14	k3	125	ASP	N-CA-C	-5.79	104.89	111.14
14	e2	87	TYR	CA-C-N	5.78	125.64	119.28
14	e2	87	TYR	C-N-CA	5.78	125.64	119.28
14	h5	125	ASP	CA-CB-CG	5.78	118.38	112.60
14	d8	213	THR	N-CA-C	5.78	117.25	111.07
14	i5	213	THR	N-CA-C	5.78	117.25	111.07
14	e6	21	ASN	CA-C-N	5.78	125.73	119.78
14	e6	21	ASN	C-N-CA	5.78	125.73	119.78
14	g3	268	ASN	CA-C-N	5.78	125.45	119.56
14	g3	268	ASN	C-N-CA	5.78	125.45	119.56
14	j3	312	VAL	N-CA-C	5.78	118.45	112.90
14	i2	90	GLU	N-CA-C	-5.78	104.59	111.69
14	j0	125	ASP	N-CA-C	-5.77	104.90	111.14
14	h9	245	THR	N-CA-C	5.77	117.88	108.76
14	d1	90	GLU	N-CA-C	-5.77	104.59	111.69
14	g2	27	PHE	CA-CB-CG	-5.77	108.03	113.80
14	i6	268	ASN	CA-C-N	5.77	125.45	119.56
14	i6	268	ASN	C-N-CA	5.77	125.45	119.56
14	h2	21	ASN	CA-C-N	5.77	125.72	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h2	21	ASN	C-N-CA	5.77	125.72	119.78
14	i9	27	PHE	CA-CB-CG	-5.77	108.03	113.80
14	j3	87	TYR	CA-C-N	5.77	125.62	119.28
14	j3	87	TYR	C-N-CA	5.77	125.62	119.28
14	l2	364	GLN	CA-C-N	5.77	125.70	119.76
14	l2	364	GLN	C-N-CA	5.77	125.70	119.76
14	j3	39	ILE	N-CA-C	5.76	116.18	108.11
14	d6	87	TYR	CA-C-N	5.76	125.62	119.28
14	d6	87	TYR	C-N-CA	5.76	125.62	119.28
14	j5	388	ILE	N-CA-C	5.76	116.50	108.89
14	k9	297	THR	CA-C-N	5.76	125.96	120.31
14	k9	297	THR	C-N-CA	5.76	125.96	120.31
14	k9	240	THR	CA-C-N	5.76	125.73	120.03
14	k9	240	THR	C-N-CA	5.76	125.73	120.03
14	l3	123	ASN	CB-CA-C	-5.76	109.92	116.54
14	h6	240	THR	CA-C-N	5.76	125.71	119.78
14	h6	240	THR	C-N-CA	5.76	125.71	119.78
14	i3	105	ILE	N-CA-C	-5.76	106.20	111.67
14	j3	95	ASP	CA-CB-CG	5.76	118.36	112.60
14	d1	21	ASN	CA-C-N	5.76	125.77	119.90
14	d1	21	ASN	C-N-CA	5.76	125.77	119.90
14	f1	87	TYR	CA-C-N	5.75	125.61	119.28
14	f1	87	TYR	C-N-CA	5.75	125.61	119.28
14	k4	312	VAL	N-CA-C	5.75	118.42	112.90
14	d9	268	ASN	CA-C-N	5.75	125.43	119.56
14	d9	268	ASN	C-N-CA	5.75	125.43	119.56
6	a6	166	LEU	N-CA-C	5.74	119.03	111.28
14	h6	90	GLU	N-CA-C	-5.74	104.62	111.69
14	i7	245	THR	N-CA-C	5.74	117.83	108.76
14	d5	87	TYR	CA-C-N	5.74	125.59	119.28
14	d5	87	TYR	C-N-CA	5.74	125.59	119.28
14	g9	392	SER	CA-C-N	5.74	125.86	119.32
14	g9	392	SER	C-N-CA	5.74	125.86	119.32
14	f6	213	THR	N-CA-C	5.74	117.21	111.07
14	g3	297	THR	CA-C-N	5.74	125.71	120.03
14	g3	297	THR	C-N-CA	5.74	125.71	120.03
14	d0	268	ASN	CA-C-N	5.73	126.12	119.47
14	d0	268	ASN	C-N-CA	5.73	126.12	119.47
14	e2	233	PHE	N-CA-C	5.73	117.72	108.32
14	e3	213	THR	N-CA-C	5.73	117.20	111.07
14	j8	401	GLU	N-CA-C	5.73	117.53	111.28
14	l2	158	THR	CA-C-N	5.73	125.58	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	l2	158	THR	C-N-CA	5.73	125.58	119.28
14	e8	364	GLN	CA-C-N	5.73	125.66	119.76
14	e8	364	GLN	C-N-CA	5.73	125.66	119.76
14	f5	123	ASN	CB-CA-C	-5.72	109.96	116.54
14	d3	90	GLU	N-CA-C	-5.72	104.65	111.69
14	e9	299	ASP	N-CA-C	-5.72	98.39	108.23
14	h1	123	ASN	CB-CA-C	-5.72	109.96	116.54
14	d4	123	ASN	CB-CA-C	-5.72	109.97	116.54
14	d7	268	ASN	CA-C-N	5.72	125.39	119.56
14	d7	268	ASN	C-N-CA	5.72	125.39	119.56
14	k5	240	THR	CA-C-N	5.72	125.67	119.78
14	k5	240	THR	C-N-CA	5.72	125.67	119.78
14	j2	392	SER	CA-C-N	5.71	125.83	119.32
14	j2	392	SER	C-N-CA	5.71	125.83	119.32
14	f8	392	SER	CA-C-N	5.71	125.83	119.32
14	f8	392	SER	C-N-CA	5.71	125.83	119.32
13	c9	75	PHE	N-CA-C	5.71	119.40	110.32
14	h5	123	ASN	CB-CA-C	-5.71	109.97	116.54
14	i0	21	ASN	CA-C-N	5.71	125.66	119.78
14	i0	21	ASN	C-N-CA	5.71	125.66	119.78
14	h7	268	ASN	CA-C-N	5.71	125.38	119.56
14	h7	268	ASN	C-N-CA	5.71	125.38	119.56
14	d4	257	HIS	CA-C-N	5.71	126.97	119.84
14	d4	257	HIS	C-N-CA	5.71	126.97	119.84
14	d1	392	SER	CA-C-N	5.71	125.82	119.32
14	d1	392	SER	C-N-CA	5.71	125.82	119.32
14	e3	120	PHE	N-CA-C	5.70	120.51	113.50
14	i3	314	ASP	N-CA-C	-5.70	104.45	111.40
14	k3	87	TYR	CA-C-N	5.70	125.55	119.28
14	k3	87	TYR	C-N-CA	5.70	125.55	119.28
13	c9	78	GLY	CA-C-N	5.70	125.60	119.85
13	c9	78	GLY	C-N-CA	5.70	125.60	119.85
14	f4	241	PRO	N-CA-C	-5.70	102.16	111.21
14	f3	268	ASN	CA-C-N	5.69	125.37	119.56
14	f3	268	ASN	C-N-CA	5.69	125.37	119.56
14	h5	213	THR	N-CA-C	5.69	117.16	111.07
14	f4	356	PHE	N-CA-C	-5.69	106.32	113.72
14	k0	21	ASN	CA-C-N	5.69	125.64	119.78
14	k0	21	ASN	C-N-CA	5.69	125.64	119.78
14	g7	105	ILE	N-CA-C	-5.69	106.27	111.67
14	i7	268	ASN	CA-C-N	5.69	125.36	119.56
14	i7	268	ASN	C-N-CA	5.69	125.36	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e3	388	ILE	N-CA-C	5.69	116.77	108.58
14	g2	158	THR	CA-C-N	5.68	126.06	119.47
14	g2	158	THR	C-N-CA	5.68	126.06	119.47
14	h8	90	GLU	N-CA-C	-5.68	104.70	111.69
14	j8	87	TYR	CA-C-N	5.68	125.53	119.28
14	j8	87	TYR	C-N-CA	5.68	125.53	119.28
14	h7	257	HIS	CA-C-N	5.68	126.94	119.84
14	h7	257	HIS	C-N-CA	5.68	126.94	119.84
14	e3	268	ASN	CA-C-N	5.68	125.35	119.56
14	e3	268	ASN	C-N-CA	5.68	125.35	119.56
14	e6	240	THR	CA-C-N	5.68	125.63	119.78
14	e6	240	THR	C-N-CA	5.68	125.63	119.78
14	f5	388	ILE	N-CA-C	5.68	116.76	108.58
14	j1	21	ASN	CA-C-N	5.68	125.63	119.78
14	j1	21	ASN	C-N-CA	5.68	125.63	119.78
14	e6	122	MET	N-CA-C	5.68	116.89	108.60
14	j7	123	ASN	CB-CA-C	-5.68	110.01	116.54
14	e9	199	GLN	CA-C-N	5.67	125.58	119.85
14	e9	199	GLN	C-N-CA	5.67	125.58	119.85
14	f9	392	SER	CA-C-N	5.67	125.79	119.32
14	f9	392	SER	C-N-CA	5.67	125.79	119.32
7	a7	114	LYS	CA-C-N	5.67	126.93	119.84
7	a7	114	LYS	C-N-CA	5.67	126.93	119.84
14	f0	213	THR	N-CA-C	5.67	117.14	111.07
14	k1	213	THR	N-CA-C	5.67	117.14	111.07
14	h3	21	ASN	CA-C-N	5.67	125.62	119.78
14	h3	21	ASN	C-N-CA	5.67	125.62	119.78
14	i7	123	ASN	CB-CA-C	-5.67	110.02	116.54
14	d0	245	THR	N-CA-C	5.67	115.87	107.88
14	h2	87	TYR	CA-C-N	5.67	125.34	119.56
14	h2	87	TYR	C-N-CA	5.67	125.34	119.56
14	g8	87	TYR	CA-C-N	5.67	125.51	119.28
14	g8	87	TYR	C-N-CA	5.67	125.51	119.28
7	a7	77	ALA	CA-C-N	5.66	125.61	119.78
7	a7	77	ALA	C-N-CA	5.66	125.61	119.78
14	i8	87	TYR	CA-C-N	5.66	125.51	119.28
14	i8	87	TYR	C-N-CA	5.66	125.51	119.28
14	k2	257	HIS	CA-C-N	5.66	126.92	119.84
14	k2	257	HIS	C-N-CA	5.66	126.92	119.84
14	k8	8	LEU	CB-CA-C	-5.66	101.39	110.79
14	l1	233	PHE	N-CA-C	5.66	117.72	108.55
14	i1	123	ASN	CB-CA-C	-5.66	110.03	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d9	123	ASN	CB-CA-C	-5.66	110.03	116.54
14	e8	312	VAL	CB-CA-C	-5.66	104.19	111.20
14	i2	125	ASP	N-CA-C	-5.66	105.03	111.14
14	f9	299	ASP	N-CA-C	-5.65	98.51	108.23
14	i8	240	THR	CA-C-N	5.65	125.60	119.78
14	i8	240	THR	C-N-CA	5.65	125.60	119.78
14	e0	21	ASN	CA-C-N	5.65	125.60	119.78
14	e0	21	ASN	C-N-CA	5.65	125.60	119.78
14	h3	400	THR	N-CA-C	5.65	119.12	110.36
14	h7	87	TYR	CA-C-N	5.65	125.50	119.28
14	h7	87	TYR	C-N-CA	5.65	125.50	119.28
14	i7	27	PHE	CA-CB-CG	-5.65	108.15	113.80
8	a8	118	TYR	CA-C-N	5.65	126.90	119.84
8	a8	118	TYR	C-N-CA	5.65	126.90	119.84
14	d6	245	THR	N-CA-C	5.64	117.10	108.52
14	d0	90	GLU	N-CA-C	-5.64	104.75	111.69
14	l1	123	ASN	CB-CA-C	-5.64	110.05	116.54
14	l0	125	ASP	N-CA-C	-5.64	105.05	111.14
14	f3	87	TYR	CA-C-N	5.64	125.48	119.28
14	f3	87	TYR	C-N-CA	5.64	125.48	119.28
14	k5	87	TYR	CA-C-N	5.63	125.48	119.28
14	k5	87	TYR	C-N-CA	5.63	125.48	119.28
14	f6	233	PHE	N-CA-C	5.63	117.56	108.32
14	k9	312	VAL	N-CA-C	5.63	118.30	112.90
14	i5	257	HIS	CA-C-N	5.63	126.88	119.84
14	i5	257	HIS	C-N-CA	5.63	126.88	119.84
14	h0	123	ASN	CB-CA-C	-5.62	110.07	116.54
14	i8	24	ILE	CB-CA-C	-5.62	104.05	111.70
14	h8	149	VAL	CA-C-N	5.62	125.55	119.76
14	h8	149	VAL	C-N-CA	5.62	125.55	119.76
14	i6	21	ASN	CA-C-N	5.62	125.57	119.78
14	i6	21	ASN	C-N-CA	5.62	125.57	119.78
14	e8	90	GLU	N-CA-C	-5.62	104.78	111.69
14	f6	245	THR	N-CA-C	5.62	117.64	108.76
3	a2	273	ALA	CB-CA-C	-5.61	110.08	116.54
14	h1	392	SER	CA-C-N	5.61	125.72	119.32
14	h1	392	SER	C-N-CA	5.61	125.72	119.32
14	k9	199	GLN	CA-C-N	5.61	125.52	119.85
14	k9	199	GLN	C-N-CA	5.61	125.52	119.85
7	a7	122	THR	N-CA-C	-5.61	101.10	109.96
9	b0	198	PRO	N-CA-C	5.61	124.02	112.47
14	h3	90	GLU	N-CA-C	-5.61	104.79	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i5	27	PHE	CA-CB-CG	-5.61	108.19	113.80
14	i6	240	THR	CA-C-N	5.61	125.56	119.78
14	i6	240	THR	C-N-CA	5.61	125.56	119.78
14	g0	21	ASN	CA-C-N	5.61	125.55	119.78
14	g0	21	ASN	C-N-CA	5.61	125.55	119.78
14	d6	21	ASN	CA-C-N	5.60	125.55	119.78
14	d6	21	ASN	C-N-CA	5.60	125.55	119.78
14	i9	63	ASN	CA-CB-CG	5.60	118.20	112.60
14	k9	372	SER	N-CA-C	-5.60	106.40	113.18
14	d1	299	ASP	N-CA-C	-5.60	98.60	108.23
14	j1	222	LEU	CA-C-N	5.60	125.50	119.85
14	j1	222	LEU	C-N-CA	5.60	125.50	119.85
14	k3	123	ASN	CB-CA-C	-5.60	110.10	116.54
14	l3	268	ASN	CA-C-N	5.60	125.27	119.56
14	l3	268	ASN	C-N-CA	5.60	125.27	119.56
13	c9	156	LEU	N-CA-C	5.59	120.10	113.16
14	h1	312	VAL	N-CA-C	5.59	118.27	112.90
14	d3	299	ASP	N-CA-C	-5.59	98.61	108.23
14	g7	21	ASN	CA-C-N	5.59	125.54	119.78
14	g7	21	ASN	C-N-CA	5.59	125.54	119.78
14	k4	125	ASP	N-CA-C	-5.59	105.10	111.14
14	h8	400	THR	N-CA-C	5.59	117.74	110.53
14	e9	233	PHE	N-CA-C	5.58	117.60	108.55
14	j7	27	PHE	CA-CB-CG	-5.58	108.22	113.80
14	f0	299	ASP	N-CA-C	-5.58	98.63	108.23
14	g3	400	THR	N-CA-C	5.58	118.06	110.35
14	i9	105	ILE	N-CA-C	-5.58	106.37	111.67
14	f9	268	ASN	CA-C-N	5.58	125.25	119.56
14	f9	268	ASN	C-N-CA	5.58	125.25	119.56
14	e4	268	ASN	CA-C-N	5.58	125.25	119.56
14	e4	268	ASN	C-N-CA	5.58	125.25	119.56
14	f2	251	ILE	N-CA-C	5.58	115.89	107.80
14	h5	125	ASP	N-CA-C	-5.58	105.12	111.14
14	k6	268	ASN	CA-C-N	5.58	125.25	119.56
14	k6	268	ASN	C-N-CA	5.58	125.25	119.56
14	d5	105	ILE	N-CA-C	-5.57	106.38	111.67
14	i5	245	THR	N-CA-C	5.57	117.32	108.79
14	j0	299	ASP	N-CA-C	-5.57	98.64	108.23
14	l0	21	ASN	CA-C-N	5.57	125.52	119.78
14	l0	21	ASN	C-N-CA	5.57	125.52	119.78
14	d6	268	ASN	CA-C-N	5.57	125.24	119.56
14	d6	268	ASN	C-N-CA	5.57	125.24	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e7	156	ASN	CA-CB-CG	5.57	118.17	112.60
14	e9	401	GLU	N-CA-C	5.57	117.35	111.28
14	k1	388	ILE	N-CA-C	5.57	116.24	108.89
14	i6	222	LEU	CA-C-N	5.56	125.51	119.78
14	i6	222	LEU	C-N-CA	5.56	125.51	119.78
14	i4	27	PHE	CA-CB-CG	-5.56	108.24	113.80
14	j1	364	GLN	CA-C-N	5.56	125.66	119.32
14	j1	364	GLN	C-N-CA	5.56	125.66	119.32
14	h4	123	ASN	CB-CA-C	-5.56	110.15	116.54
14	g8	245	THR	N-CA-C	5.55	117.29	108.79
14	l2	392	SER	CA-C-N	5.55	125.65	119.32
14	l2	392	SER	C-N-CA	5.55	125.65	119.32
14	j6	199	GLN	CA-C-N	5.55	125.46	119.85
14	j6	199	GLN	C-N-CA	5.55	125.46	119.85
14	j8	123	ASN	CB-CA-C	-5.55	110.16	116.54
14	d7	222	LEU	CA-C-N	5.55	125.47	119.76
14	d7	222	LEU	C-N-CA	5.55	125.47	119.76
14	j2	213	THR	N-CA-C	5.55	117.79	111.02
14	g4	87	TYR	CA-C-N	5.55	125.38	119.28
14	g4	87	TYR	C-N-CA	5.55	125.38	119.28
14	h9	199	GLN	CA-C-N	5.54	125.45	119.85
14	h9	199	GLN	C-N-CA	5.54	125.45	119.85
14	j0	87	TYR	CA-C-N	5.54	125.38	119.28
14	j0	87	TYR	C-N-CA	5.54	125.38	119.28
14	j8	90	GLU	N-CA-C	-5.54	104.87	111.69
14	e4	281	ILE	N-CA-C	-5.54	101.80	108.45
14	d0	21	ASN	CA-C-N	5.54	125.48	119.78
14	d0	21	ASN	C-N-CA	5.54	125.48	119.78
14	e6	312	VAL	N-CA-C	5.53	118.21	112.90
14	g1	27	PHE	CA-CB-CG	-5.53	108.27	113.80
14	g9	21	ASN	CA-C-N	5.53	125.48	119.78
14	g9	21	ASN	C-N-CA	5.53	125.48	119.78
14	h0	87	TYR	CA-C-N	5.53	125.36	119.28
14	h0	87	TYR	C-N-CA	5.53	125.36	119.28
14	f0	268	ASN	CA-C-N	5.53	125.20	119.56
14	f0	268	ASN	C-N-CA	5.53	125.20	119.56
14	f7	87	TYR	CA-C-N	5.53	125.36	119.28
14	f7	87	TYR	C-N-CA	5.53	125.36	119.28
14	g6	171	HIS	CA-CB-CG	5.52	119.32	113.80
14	j9	213	THR	N-CA-C	5.52	116.98	111.07
14	e1	87	TYR	CA-C-N	5.52	125.36	119.28
14	e1	87	TYR	C-N-CA	5.52	125.36	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e8	268	ASN	CA-C-N	5.52	125.88	119.47
14	e8	268	ASN	C-N-CA	5.52	125.88	119.47
14	g0	299	ASP	N-CA-C	-5.52	98.73	108.23
14	g5	158	THR	CA-C-N	5.52	125.88	119.47
14	g5	158	THR	C-N-CA	5.52	125.88	119.47
14	d2	297	THR	CA-C-N	5.52	125.72	120.31
14	d2	297	THR	C-N-CA	5.52	125.72	120.31
14	f8	122	MET	N-CA-C	5.52	116.66	108.60
14	l1	268	ASN	CA-C-N	5.52	125.19	119.56
14	l1	268	ASN	C-N-CA	5.52	125.19	119.56
14	g3	87	TYR	CA-C-N	5.52	125.35	119.28
14	g3	87	TYR	C-N-CA	5.52	125.35	119.28
14	e7	245	THR	N-CA-C	5.51	115.66	107.88
14	k4	213	THR	N-CA-C	5.51	117.73	111.11
14	g1	90	GLU	N-CA-C	-5.51	104.91	111.69
14	i3	95	ASP	CA-CB-CG	5.51	118.11	112.60
14	j1	123	ASN	CB-CA-C	-5.51	110.20	116.54
14	k1	158	THR	CA-C-N	5.51	125.86	119.47
14	k1	158	THR	C-N-CA	5.51	125.86	119.47
14	k4	87	TYR	CA-C-N	5.51	125.34	119.28
14	k4	87	TYR	C-N-CA	5.51	125.34	119.28
12	c8	94	GLY	CA-C-N	5.51	132.06	121.54
12	c8	94	GLY	C-N-CA	5.51	132.06	121.54
13	c9	79	PRO	N-CA-C	-5.51	102.63	111.38
14	d0	123	ASN	CB-CA-C	-5.51	110.21	116.54
14	k7	90	GLU	N-CA-C	-5.50	104.92	111.69
14	i3	90	GLU	N-CA-C	-5.50	104.92	111.69
14	k2	283	GLY	N-CA-C	-5.50	107.19	114.95
14	e2	90	GLU	N-CA-C	-5.50	104.93	111.69
14	e6	213	THR	N-CA-C	5.50	116.95	111.07
14	k9	90	GLU	N-CA-C	-5.50	104.93	111.69
14	h9	268	ASN	CA-C-N	5.50	125.17	119.56
14	h9	268	ASN	C-N-CA	5.50	125.17	119.56
14	i4	123	ASN	CB-CA-C	-5.50	110.22	116.54
14	j6	156	ASN	CA-CB-CG	5.50	118.10	112.60
14	f9	105	ILE	N-CA-C	-5.49	107.09	111.81
14	e7	299	ASP	N-CA-C	-5.49	98.78	108.23
14	g6	90	GLU	N-CA-C	-5.49	104.94	111.69
14	g1	213	THR	N-CA-C	5.49	116.94	111.07
14	g2	21	ASN	CA-C-N	5.49	125.43	119.78
14	g2	21	ASN	C-N-CA	5.49	125.43	119.78
14	i3	388	ILE	N-CA-C	5.49	116.48	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	g4	268	ASN	CA-C-N	5.49	125.83	119.47
14	g4	268	ASN	C-N-CA	5.49	125.83	119.47
14	l1	21	ASN	CA-C-N	5.49	125.41	119.76
14	l1	21	ASN	C-N-CA	5.49	125.41	119.76
14	i3	82	GLY	N-CA-C	-5.48	105.62	111.93
14	i4	199	GLN	CA-C-N	5.48	125.39	119.85
14	i4	199	GLN	C-N-CA	5.48	125.39	119.85
14	k8	399	ASN	N-CA-C	5.48	118.86	110.36
14	h7	123	ASN	CB-CA-C	-5.48	110.24	116.54
14	j0	213	THR	CA-C-N	-5.48	112.51	120.29
14	j0	213	THR	C-N-CA	-5.48	112.51	120.29
14	l2	222	LEU	CA-C-N	5.48	125.39	119.85
14	l2	222	LEU	C-N-CA	5.48	125.39	119.85
14	l3	27	PHE	CA-CB-CG	-5.48	108.32	113.80
14	i0	123	ASN	CB-CA-C	-5.48	110.24	116.54
14	d2	90	GLU	N-CA-C	-5.47	104.96	111.69
14	h5	90	GLU	N-CA-C	-5.47	104.96	111.69
14	i3	213	THR	N-CA-C	5.47	116.92	111.07
14	i2	222	LEU	CA-C-N	5.47	125.37	119.85
14	i2	222	LEU	C-N-CA	5.47	125.37	119.85
14	j0	312	VAL	N-CA-C	5.47	118.15	112.90
14	h7	90	GLU	N-CA-C	-5.47	104.96	111.69
14	e7	222	LEU	CA-C-N	5.47	125.44	120.03
14	e7	222	LEU	C-N-CA	5.47	125.44	120.03
14	f8	240	THR	CA-C-N	5.47	125.41	119.78
14	f8	240	THR	C-N-CA	5.47	125.41	119.78
14	k2	168	LEU	CA-C-N	5.47	127.87	120.38
14	k2	168	LEU	C-N-CA	5.47	127.87	120.38
14	k3	90	GLU	N-CA-C	-5.46	104.97	111.69
14	g6	21	ASN	CA-C-N	5.46	125.41	119.78
14	g6	21	ASN	C-N-CA	5.46	125.41	119.78
14	l0	240	THR	CA-C-N	5.46	125.41	119.78
14	l0	240	THR	C-N-CA	5.46	125.41	119.78
14	k4	123	ASN	CB-CA-C	-5.46	110.26	116.54
8	a8	38	TRP	N-CA-C	-5.46	106.39	113.16
14	d0	158	THR	CA-C-N	5.46	125.13	119.56
14	d0	158	THR	C-N-CA	5.46	125.13	119.56
14	f7	199	GLN	CA-C-N	5.46	125.36	119.85
14	f7	199	GLN	C-N-CA	5.46	125.36	119.85
14	g2	90	GLU	N-CA-C	-5.46	104.98	111.69
14	d1	268	ASN	CA-C-N	5.46	125.80	119.47
14	d1	268	ASN	C-N-CA	5.46	125.80	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h0	312	VAL	N-CA-C	5.45	116.94	111.00
7	a7	105	GLY	N-CA-C	-5.45	101.22	112.34
14	i1	388	ILE	N-CA-C	5.45	116.08	108.89
14	d7	299	ASP	N-CA-C	-5.45	98.86	108.23
14	d8	299	ASP	N-CA-C	-5.45	98.86	108.23
14	h8	299	ASP	N-CA-C	-5.45	98.86	108.23
14	j9	399	ASN	N-CA-C	5.45	117.87	110.35
14	f4	233	PHE	N-CA-C	5.45	117.37	108.55
14	h5	422	ASN	CA-CB-CG	5.45	118.05	112.60
14	i9	125	ASP	N-CA-C	-5.45	105.42	111.36
14	j5	122	MET	N-CA-C	5.45	116.55	108.60
14	d0	199	GLN	CA-C-N	5.44	125.35	119.85
14	d0	199	GLN	C-N-CA	5.44	125.35	119.85
14	d6	123	ASN	CB-CA-C	-5.44	110.32	116.63
14	j0	27	PHE	CA-CB-CG	-5.44	108.36	113.80
14	g2	299	ASP	N-CA-C	-5.44	98.87	108.23
14	j7	21	ASN	CA-C-N	5.44	125.38	119.78
14	j7	21	ASN	C-N-CA	5.44	125.38	119.78
14	j6	213	THR	N-CA-C	5.44	117.64	111.11
14	j6	268	ASN	CA-C-N	5.44	125.11	119.56
14	j6	268	ASN	C-N-CA	5.44	125.11	119.56
14	l2	388	ILE	N-CA-C	5.44	116.07	108.89
14	e0	312	VAL	N-CA-C	5.43	116.92	111.00
14	g3	240	THR	CA-C-N	5.43	125.41	120.03
14	g3	240	THR	C-N-CA	5.43	125.41	120.03
14	j0	125	ASP	CA-CB-CG	5.43	118.03	112.60
14	g3	401	GLU	N-CA-C	5.43	117.20	111.28
14	k2	90	GLU	N-CA-C	-5.43	105.01	111.69
14	d9	347	THR	CA-C-N	5.43	125.33	119.85
14	d9	347	THR	C-N-CA	5.43	125.33	119.85
14	j1	90	GLU	N-CA-C	-5.43	105.02	111.69
14	d7	87	TYR	CA-C-N	5.42	125.25	119.28
14	d7	87	TYR	C-N-CA	5.42	125.25	119.28
14	g1	399	ASN	N-CA-C	5.42	117.84	110.35
14	j3	401	GLU	N-CA-C	5.42	117.19	111.28
14	l2	268	ASN	CA-C-N	5.42	125.76	119.47
14	l2	268	ASN	C-N-CA	5.42	125.76	119.47
14	e2	149	VAL	CA-C-N	5.42	125.33	119.85
14	e2	149	VAL	C-N-CA	5.42	125.33	119.85
14	h1	158	THR	CA-C-N	5.42	125.75	119.47
14	h1	158	THR	C-N-CA	5.42	125.75	119.47
14	j2	21	ASN	CA-C-N	5.42	125.36	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	j2	21	ASN	C-N-CA	5.42	125.36	119.78
14	j6	21	ASN	CA-C-N	5.42	125.36	119.78
14	j6	21	ASN	C-N-CA	5.42	125.36	119.78
14	e2	21	ASN	CA-C-N	5.42	125.34	119.76
14	e2	21	ASN	C-N-CA	5.42	125.34	119.76
14	h1	199	GLN	CA-C-N	5.42	125.32	119.85
14	h1	199	GLN	C-N-CA	5.42	125.32	119.85
14	i5	158	THR	CA-C-N	5.42	125.75	119.47
14	i5	158	THR	C-N-CA	5.42	125.75	119.47
14	i4	120	PHE	N-CA-C	5.41	119.94	113.23
14	k3	241	PRO	CA-C-N	-5.41	112.27	121.85
14	k3	241	PRO	C-N-CA	-5.41	112.27	121.85
14	k5	122	MET	N-CA-C	5.41	117.07	108.79
14	g2	95	ASP	CA-CB-CG	5.41	118.01	112.60
14	i8	125	ASP	N-CA-C	-5.41	105.30	111.14
14	j6	388	ILE	N-CA-C	5.41	116.37	108.58
6	a6	72	SER	CA-C-N	5.41	125.08	119.56
6	a6	72	SER	C-N-CA	5.41	125.08	119.56
14	f9	233	PHE	N-CA-C	5.41	117.31	108.55
14	h3	233	PHE	N-CA-C	5.41	117.31	108.55
14	h4	21	ASN	CA-C-N	5.41	125.33	119.76
14	h4	21	ASN	C-N-CA	5.41	125.33	119.76
14	h8	125	ASP	N-CA-C	-5.41	105.46	111.36
14	e8	240	THR	CA-C-N	5.41	125.31	119.85
14	e8	240	THR	C-N-CA	5.41	125.31	119.85
7	a7	83	LYS	N-CA-C	-5.40	105.05	111.69
14	e0	26	PHE	N-CA-C	-5.40	106.56	114.39
14	f2	125	ASP	N-CA-C	-5.40	105.31	111.14
14	i7	388	ILE	N-CA-C	5.40	116.02	108.89
14	j2	299	ASP	N-CA-C	-5.40	98.94	108.23
14	j3	105	ILE	N-CA-C	-5.40	106.54	111.67
14	e8	21	ASN	CA-C-N	5.40	125.34	119.78
14	e8	21	ASN	C-N-CA	5.40	125.34	119.78
14	f7	222	LEU	CA-C-N	5.40	125.30	119.85
14	f7	222	LEU	C-N-CA	5.40	125.30	119.85
9	b7	190	PRO	CB-CA-C	-5.39	104.48	113.06
14	g2	257	HIS	CA-C-N	5.39	126.58	119.84
14	g2	257	HIS	C-N-CA	5.39	126.58	119.84
14	f8	16	VAL	CA-C-N	5.39	128.50	120.95
14	f8	16	VAL	C-N-CA	5.39	128.50	120.95
14	g6	257	HIS	CA-C-N	5.39	126.58	119.84
14	g6	257	HIS	C-N-CA	5.39	126.58	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i1	199	GLN	CA-C-N	5.39	125.37	120.03
14	i1	199	GLN	C-N-CA	5.39	125.37	120.03
14	j7	122	MET	N-CA-C	5.39	117.04	108.79
14	j2	401	GLU	N-CA-C	5.39	117.16	111.28
14	j2	123	ASN	CB-CA-C	-5.39	110.34	116.54
14	i1	297	THR	CA-C-N	5.38	125.59	120.31
14	i1	297	THR	C-N-CA	5.38	125.59	120.31
14	i2	27	PHE	CA-CB-CG	-5.38	108.42	113.80
14	j7	87	TYR	CA-C-N	5.38	125.20	119.28
14	j7	87	TYR	C-N-CA	5.38	125.20	119.28
14	f5	213	THR	N-CA-C	5.38	116.83	111.07
14	j0	123	ASN	CB-CA-C	-5.38	110.35	116.54
14	f8	199	GLN	CA-C-N	5.38	125.28	119.85
14	f8	199	GLN	C-N-CA	5.38	125.28	119.85
14	j1	105	ILE	N-CA-C	-5.38	106.56	111.67
14	j5	90	GLU	N-CA-C	-5.38	105.07	111.69
14	h8	103	GLN	CG-CD-NE2	-5.38	108.33	116.40
14	h9	388	ILE	N-CA-C	5.38	116.33	108.58
14	i9	268	ASN	CA-C-N	5.38	125.05	119.56
14	i9	268	ASN	C-N-CA	5.38	125.05	119.56
14	k1	24	ILE	N-CA-C	5.38	116.65	108.80
14	e8	123	ASN	CB-CA-C	-5.38	110.36	116.54
14	h5	199	GLN	CA-C-N	5.37	125.28	119.85
14	h5	199	GLN	C-N-CA	5.37	125.28	119.85
14	k9	21	ASN	CA-C-N	5.37	125.31	119.78
14	k9	21	ASN	C-N-CA	5.37	125.31	119.78
14	d8	74	PHE	CA-CB-CG	5.37	119.17	113.80
14	d6	105	ILE	N-CA-C	-5.37	106.45	111.45
14	e5	312	VAL	N-CA-C	5.37	116.85	111.00
14	d4	392	SER	CA-C-N	5.37	125.44	119.32
14	d4	392	SER	C-N-CA	5.37	125.44	119.32
14	j2	149	VAL	CA-C-N	5.37	125.29	119.76
14	j2	149	VAL	C-N-CA	5.37	125.29	119.76
14	i1	156	ASN	CA-CB-CG	5.37	117.97	112.60
14	j9	388	ILE	N-CA-C	5.37	115.97	108.89
14	e2	299	ASP	N-CA-C	-5.36	99.00	108.23
14	e6	158	THR	CA-C-N	5.36	125.69	119.47
14	e6	158	THR	C-N-CA	5.36	125.69	119.47
14	g6	123	ASN	CB-CA-C	-5.36	110.37	116.54
14	d8	356	PHE	N-CA-C	-5.36	106.75	113.72
14	i9	21	ASN	CA-C-N	5.36	125.28	119.76
14	i9	21	ASN	C-N-CA	5.36	125.28	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	j3	222	LEU	CA-C-N	5.36	125.27	119.85
14	j3	222	LEU	C-N-CA	5.36	125.27	119.85
14	l2	105	ILE	N-CA-C	-5.36	106.46	111.45
14	g5	123	ASN	CB-CA-C	-5.36	110.38	116.54
14	f2	299	ASP	N-CA-C	-5.36	99.01	108.23
14	h2	149	VAL	CA-C-N	5.36	125.28	119.76
14	h2	149	VAL	C-N-CA	5.36	125.28	119.76
14	j3	12	GLY	CA-C-O	-5.36	118.53	122.23
14	g6	299	ASP	N-CA-C	-5.35	99.02	108.23
14	l3	8	LEU	CB-CA-C	-5.35	101.90	110.79
6	a6	104	PHE	N-CA-C	-5.35	103.03	109.83
14	g4	299	ASP	N-CA-C	-5.35	99.02	108.23
14	h4	245	THR	N-CA-C	5.35	116.66	108.42
14	k3	240	THR	CA-C-N	5.35	125.34	120.21
14	k3	240	THR	C-N-CA	5.35	125.34	120.21
14	l3	21	ASN	CA-C-N	5.35	125.29	119.78
14	l3	21	ASN	C-N-CA	5.35	125.29	119.78
13	c9	13	PHE	CA-C-N	5.35	125.29	119.78
13	c9	13	PHE	C-N-CA	5.35	125.29	119.78
14	g2	268	ASN	CA-C-N	5.34	125.01	119.56
14	g2	268	ASN	C-N-CA	5.34	125.01	119.56
14	g5	105	ILE	N-CA-C	-5.34	106.48	111.45
14	g7	312	VAL	N-CA-C	5.34	116.82	111.00
14	k7	21	ASN	CA-C-N	5.34	125.26	119.76
14	k7	21	ASN	C-N-CA	5.34	125.26	119.76
14	l0	356	PHE	N-CA-C	-5.34	106.78	113.72
14	h4	27	PHE	CA-CB-CG	-5.34	108.46	113.80
14	d2	153	PHE	N-CA-C	-5.34	103.48	110.53
14	j4	90	GLU	N-CA-C	-5.33	105.13	111.69
14	d5	158	THR	CA-C-N	5.33	125.66	119.47
14	d5	158	THR	C-N-CA	5.33	125.66	119.47
14	h5	240	THR	CA-C-N	5.33	125.27	119.78
14	h5	240	THR	C-N-CA	5.33	125.27	119.78
14	i2	388	ILE	N-CA-C	5.33	115.93	108.89
14	g0	199	GLN	CA-C-N	5.33	125.23	119.85
14	g0	199	GLN	C-N-CA	5.33	125.23	119.85
14	j9	433	LEU	CA-C-N	5.33	127.96	120.28
14	j9	433	LEU	C-N-CA	5.33	127.96	120.28
14	k6	213	THR	N-CA-C	5.33	117.51	111.11
14	g8	21	ASN	CA-C-N	5.33	125.25	119.76
14	g8	21	ASN	C-N-CA	5.33	125.25	119.76
14	h6	299	ASP	N-CA-C	-5.33	99.07	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	a6	31	LEU	CA-C-N	5.32	125.53	120.31
6	a6	31	LEU	C-N-CA	5.32	125.53	120.31
14	f1	125	ASP	N-CA-C	-5.32	105.39	111.14
14	i2	213	THR	N-CA-C	5.32	116.76	111.07
6	a6	111	ASN	CA-C-N	5.32	125.30	120.03
6	a6	111	ASN	C-N-CA	5.32	125.30	120.03
14	e2	388	ILE	N-CA-C	5.32	115.91	108.89
14	d8	95	ASP	CA-CB-CG	5.32	117.92	112.60
14	k6	21	ASN	CA-C-N	5.32	125.26	119.78
14	k6	21	ASN	C-N-CA	5.32	125.26	119.78
14	i5	21	ASN	CA-C-N	5.31	125.25	119.78
14	i5	21	ASN	C-N-CA	5.31	125.25	119.78
14	f1	213	THR	N-CA-C	5.31	117.49	111.11
14	f5	222	LEU	CA-C-N	5.31	125.22	119.85
14	f5	222	LEU	C-N-CA	5.31	125.22	119.85
14	g0	39	ILE	N-CA-C	5.31	115.55	108.11
14	k5	388	ILE	N-CA-C	5.31	116.23	108.58
14	g1	123	ASN	CB-CA-C	-5.31	110.47	116.63
14	k7	312	VAL	CB-CA-C	-5.31	104.61	111.20
14	f8	222	LEU	CA-C-N	5.31	125.23	119.76
14	f8	222	LEU	C-N-CA	5.31	125.23	119.76
14	d2	158	THR	CA-C-N	5.31	125.63	119.47
14	d2	158	THR	C-N-CA	5.31	125.63	119.47
14	i1	364	GLN	N-CA-C	-5.31	102.96	109.65
14	l3	433	LEU	CA-C-N	5.31	127.39	120.28
14	l3	433	LEU	C-N-CA	5.31	127.39	120.28
14	d1	222	LEU	CA-C-N	5.30	125.28	120.03
14	d1	222	LEU	C-N-CA	5.30	125.28	120.03
14	d6	222	LEU	CA-C-N	5.30	125.28	120.03
14	d6	222	LEU	C-N-CA	5.30	125.28	120.03
14	f5	364	GLN	CA-C-N	5.30	125.22	119.76
14	f5	364	GLN	C-N-CA	5.30	125.22	119.76
14	k8	90	GLU	N-CA-C	-5.30	105.17	111.69
14	d5	299	ASP	N-CA-C	-5.30	99.11	108.23
14	h5	21	ASN	CA-C-N	5.30	125.24	119.78
14	h5	21	ASN	C-N-CA	5.30	125.24	119.78
14	e4	123	ASN	CB-CA-C	-5.30	110.45	116.54
14	i4	87	TYR	CA-C-N	5.30	125.11	119.28
14	i4	87	TYR	C-N-CA	5.30	125.11	119.28
14	h9	257	HIS	CA-C-N	5.30	126.46	119.84
14	h9	257	HIS	C-N-CA	5.30	126.46	119.84
14	d4	299	ASP	N-CA-C	-5.30	98.67	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	j7	120	PHE	N-CA-C	5.30	120.01	113.50
14	j9	233	PHE	N-CA-C	5.30	117.81	108.75
14	d8	388	ILE	N-CA-C	5.29	116.20	108.58
14	e9	21	ASN	CA-C-N	5.29	125.21	119.76
14	e9	21	ASN	C-N-CA	5.29	125.21	119.76
14	d3	21	ASN	CA-C-N	5.29	125.23	119.78
14	d3	21	ASN	C-N-CA	5.29	125.23	119.78
14	g8	268	ASN	CA-C-N	5.29	124.96	119.56
14	g8	268	ASN	C-N-CA	5.29	124.96	119.56
14	h5	120	PHE	N-CA-C	5.29	120.01	113.50
14	i6	299	ASP	N-CA-C	-5.29	99.13	108.23
7	a7	122	THR	CA-C-N	-5.29	113.70	122.11
7	a7	122	THR	C-N-CA	-5.29	113.70	122.11
14	e4	245	THR	N-CA-C	5.29	117.12	108.76
14	f2	90	GLU	N-CA-C	-5.29	105.18	111.69
14	g1	21	ASN	CA-C-N	5.29	125.23	119.78
14	g1	21	ASN	C-N-CA	5.29	125.23	119.78
14	g7	222	LEU	CA-C-N	5.29	125.19	119.85
14	g7	222	LEU	C-N-CA	5.29	125.19	119.85
14	j3	21	ASN	CA-C-N	5.29	125.23	119.78
14	j3	21	ASN	C-N-CA	5.29	125.23	119.78
14	g2	105	ILE	N-CA-C	-5.29	106.65	111.67
14	j9	125	ASP	N-CA-C	-5.29	105.43	111.14
14	k8	400	THR	N-CA-C	5.29	117.35	110.53
14	d9	122	MET	N-CA-C	5.28	116.31	108.60
14	e1	314	ASP	N-CA-C	-5.28	104.95	111.40
14	g6	268	ASN	CA-C-N	5.28	124.95	119.56
14	g6	268	ASN	C-N-CA	5.28	124.95	119.56
14	e9	125	ASP	N-CA-C	-5.28	105.53	111.28
14	l0	245	THR	N-CA-C	5.28	115.33	107.88
14	l2	233	PHE	N-CA-C	5.28	117.78	108.75
14	i8	388	ILE	N-CA-C	5.28	116.18	108.58
14	f2	281	ILE	N-CA-C	-5.28	102.12	108.45
14	i0	105	ILE	N-CA-C	-5.28	106.66	111.67
14	k7	105	ILE	N-CA-C	-5.28	106.54	111.45
6	a6	29	ILE	N-CA-C	5.27	115.49	108.11
14	h9	27	PHE	CA-CB-CG	-5.27	108.53	113.80
14	j2	388	ILE	N-CA-C	5.27	115.85	108.89
14	f5	245	THR	N-CA-C	5.27	115.31	107.88
14	f9	26	PHE	CA-CB-CG	5.27	119.07	113.80
14	k3	239	ALA	N-CA-C	-5.27	102.48	110.28
14	k6	222	LEU	CA-C-N	5.27	125.17	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	k6	222	LEU	C-N-CA	5.27	125.17	119.85
14	k9	31	TYR	N-CA-C	-5.27	101.94	110.32
14	e9	90	GLU	N-CA-C	-5.26	105.21	111.69
14	h3	123	ASN	CB-CA-C	-5.26	110.48	116.54
4	a4	141	PRO	N-CA-C	5.26	123.31	112.47
14	d3	240	THR	CA-C-N	5.26	125.24	120.03
14	d3	240	THR	C-N-CA	5.26	125.24	120.03
14	i3	147	PHE	CA-CB-CG	-5.26	108.54	113.80
14	i7	356	PHE	N-CA-C	-5.26	106.91	113.38
14	k7	280	ASN	CA-C-N	5.26	127.90	123.33
14	k7	280	ASN	C-N-CA	5.26	127.90	123.33
12	c7	165	GLN	CA-C-O	-5.26	115.30	120.82
14	j9	222	LEU	CA-C-N	5.26	125.16	119.85
14	j9	222	LEU	C-N-CA	5.26	125.16	119.85
14	k0	240	THR	CA-C-N	5.26	125.23	120.03
14	k0	240	THR	C-N-CA	5.26	125.23	120.03
14	h3	222	LEU	CA-C-N	5.25	125.16	119.85
14	h3	222	LEU	C-N-CA	5.25	125.16	119.85
14	k5	156	ASN	CA-CB-CG	5.25	117.85	112.60
14	k7	123	ASN	CB-CA-C	-5.25	110.50	116.54
14	e9	123	ASN	CB-CA-C	-5.25	110.50	116.54
14	f7	401	GLU	N-CA-C	5.25	117.69	111.33
14	k7	125	ASP	N-CA-C	-5.25	105.47	111.14
14	d2	356	PHE	N-CA-C	-5.25	106.92	113.38
14	k3	21	ASN	CA-C-N	5.25	125.19	119.78
14	k3	21	ASN	C-N-CA	5.25	125.19	119.78
14	g8	378	THR	N-CA-C	5.25	117.23	108.99
14	l2	21	ASN	CA-C-N	5.25	125.19	119.78
14	l2	21	ASN	C-N-CA	5.25	125.19	119.78
14	e5	125	ASP	N-CA-C	-5.25	105.47	111.14
14	e6	105	ILE	N-CA-C	-5.25	106.69	111.67
14	g3	213	THR	N-CA-C	5.25	116.68	111.07
14	e3	39	ILE	N-CA-C	5.25	115.45	108.11
14	f2	356	PHE	N-CA-C	-5.25	106.90	113.72
14	h3	108	HIS	CA-CB-CG	-5.24	108.56	113.80
14	k1	27	PHE	CA-CB-CG	-5.24	108.56	113.80
14	f3	123	ASN	CB-CA-C	-5.24	110.52	116.54
14	k1	90	GLU	N-CA-C	-5.24	105.25	111.69
14	f3	399	ASN	N-CA-C	5.24	117.58	110.35
14	f8	123	ASN	CB-CA-C	-5.24	110.52	116.54
14	j3	90	GLU	N-CA-C	-5.24	105.25	111.69
15	l4	37	LEU	N-CA-C	-5.24	106.04	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	e8	299	ASP	N-CA-C	-5.24	98.78	107.99
14	i1	90	GLU	N-CA-C	-5.24	105.25	111.69
14	l3	240	THR	CA-C-N	5.23	125.14	119.85
14	l3	240	THR	C-N-CA	5.23	125.14	119.85
14	e6	87	TYR	CA-C-N	5.23	125.03	119.28
14	e6	87	TYR	C-N-CA	5.23	125.03	119.28
14	f3	281	ILE	N-CA-C	-5.23	102.17	108.45
14	f9	199	GLN	CA-C-N	5.23	125.13	119.85
14	f9	199	GLN	C-N-CA	5.23	125.13	119.85
14	h8	249	GLN	N-CA-C	5.23	117.02	108.55
14	f7	299	ASP	N-CA-C	-5.23	99.24	108.23
14	j3	400	THR	N-CA-C	5.23	117.27	110.53
14	d7	388	ILE	N-CA-C	5.23	116.11	108.58
13	c9	23	GLY	CA-C-N	5.22	128.66	120.82
13	c9	23	GLY	C-N-CA	5.22	128.66	120.82
14	h3	268	ASN	CA-C-N	5.22	124.89	119.56
14	h3	268	ASN	C-N-CA	5.22	124.89	119.56
14	h4	299	ASP	N-CA-C	-5.22	99.24	108.23
14	i0	90	GLU	N-CA-C	-5.22	105.26	111.69
14	k2	312	VAL	N-CA-C	5.22	116.69	111.00
14	h8	21	ASN	CA-C-N	5.22	125.16	119.78
14	h8	21	ASN	C-N-CA	5.22	125.16	119.78
14	i8	299	ASP	N-CA-C	-5.22	99.25	108.23
14	k0	125	ASP	N-CA-C	-5.22	105.50	111.14
14	f6	299	ASP	N-CA-C	-5.22	99.25	108.23
14	f9	372	SER	N-CA-C	-5.22	106.86	113.18
14	j2	27	PHE	CA-CB-CG	-5.22	108.58	113.80
14	d5	123	ASN	CB-CA-C	-5.22	110.54	116.54
14	f1	158	THR	CA-C-N	5.22	125.52	119.47
14	f1	158	THR	C-N-CA	5.22	125.52	119.47
14	i3	401	GLU	N-CA-C	5.22	116.97	111.28
14	i6	120	PHE	N-CA-C	5.22	119.92	113.50
14	l1	222	LEU	CA-C-N	5.22	125.12	119.85
14	l1	222	LEU	C-N-CA	5.22	125.12	119.85
14	e8	199	GLN	CA-C-N	5.21	125.12	119.85
14	e8	199	GLN	C-N-CA	5.21	125.12	119.85
14	j7	399	ASN	N-CA-C	5.21	117.55	110.35
14	e3	122	MET	N-CA-C	5.21	116.77	108.79
12	c7	81	SER	O-C-N	5.21	129.81	123.14
14	f8	12	GLY	N-CA-C	-5.21	100.83	113.18
14	d9	299	ASP	N-CA-C	-5.21	99.27	108.23
14	f3	90	GLU	N-CA-C	-5.21	105.28	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	i0	364	GLN	CA-C-N	5.21	125.21	119.90
14	i0	364	GLN	C-N-CA	5.21	125.21	119.90
14	k0	257	HIS	CA-C-N	5.21	126.35	119.84
14	k0	257	HIS	C-N-CA	5.21	126.35	119.84
14	e0	399	ASN	N-CA-C	5.21	117.54	110.35
14	f3	364	GLN	CA-C-N	5.21	125.26	119.32
14	f3	364	GLN	C-N-CA	5.21	125.26	119.32
14	i8	364	GLN	CB-CG-CD	5.21	121.45	112.60
14	k0	123	ASN	CB-CA-C	-5.21	110.55	116.54
14	k6	90	GLU	N-CA-C	-5.21	105.29	111.69
14	f3	158	THR	CA-C-N	5.20	125.51	119.47
14	f3	158	THR	C-N-CA	5.20	125.51	119.47
14	j4	233	PHE	N-CA-C	5.20	116.85	108.32
14	d4	27	PHE	CA-CB-CG	-5.20	108.60	113.80
14	e5	268	ASN	CA-C-N	5.20	124.86	119.56
14	e5	268	ASN	C-N-CA	5.20	124.86	119.56
14	e7	21	ASN	CA-C-N	5.20	125.14	119.78
14	e7	21	ASN	C-N-CA	5.20	125.14	119.78
14	i5	399	ASN	N-CA-C	5.20	117.53	110.35
14	g3	125	ASP	N-CA-C	-5.20	105.53	111.14
14	j2	90	GLU	N-CA-C	-5.20	105.30	111.69
14	h5	388	ILE	N-CA-C	5.20	115.75	108.89
14	l0	399	ASN	N-CA-C	5.20	117.52	110.35
14	g9	222	LEU	CA-C-N	5.20	125.10	119.85
14	g9	222	LEU	C-N-CA	5.20	125.10	119.85
14	h6	174	LYS	N-CA-C	5.20	117.57	109.52
14	i4	299	ASP	N-CA-C	-5.20	99.29	108.23
14	k5	399	ASN	N-CA-C	5.20	117.52	110.35
14	g9	90	GLU	N-CA-C	-5.19	105.30	111.69
14	i7	125	ASP	N-CA-C	-5.19	105.53	111.14
14	h9	90	GLU	N-CA-C	-5.19	105.31	111.69
14	i8	245	THR	N-CA-C	5.19	115.20	107.88
14	l0	312	VAL	N-CA-C	5.19	117.08	111.58
14	f8	134	ASP	CA-CB-CG	5.19	117.79	112.60
14	g0	227	LEU	N-CA-C	-5.19	102.00	110.20
14	g2	370	ASN	CB-CG-ND2	-5.19	108.62	116.40
14	i5	123	ASN	CB-CA-C	-5.19	110.58	116.54
14	l2	82	GLY	N-CA-C	-5.19	105.96	111.93
14	f0	356	PHE	N-CA-C	-5.19	106.98	113.72
14	f3	400	THR	N-CA-C	5.19	118.00	110.17
14	g0	356	PHE	N-CA-C	-5.19	106.98	113.72
14	g2	199	GLN	CA-C-N	5.18	125.09	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	g2	199	GLN	C-N-CA	5.18	125.09	119.85
14	e5	199	GLN	CA-C-N	5.18	125.16	120.03
14	e5	199	GLN	C-N-CA	5.18	125.16	120.03
14	e8	399	ASN	N-CA-C	5.18	118.39	110.36
14	i8	123	ASN	CB-CA-C	-5.18	110.58	116.54
14	e6	123	ASN	CB-CA-C	-5.18	110.58	116.54
14	f1	245	THR	N-CA-C	5.18	116.94	108.76
14	g8	125	ASP	N-CA-C	-5.18	105.55	111.14
14	k2	433	LEU	CA-C-N	5.18	127.22	120.28
14	k2	433	LEU	C-N-CA	5.18	127.22	120.28
14	h1	201	THR	N-CA-C	-5.18	102.80	110.46
14	j6	299	ASP	N-CA-C	-5.18	99.33	108.23
14	j9	82	GLY	N-CA-C	-5.18	105.98	111.93
14	d4	312	VAL	N-CA-C	5.17	117.87	112.90
14	g9	388	ILE	N-CA-C	5.17	116.03	108.58
14	i1	213	THR	N-CA-C	5.17	116.61	111.07
14	e6	299	ASP	N-CA-C	-5.17	99.33	108.23
14	h7	201	THR	N-CA-C	-5.17	102.10	110.32
14	j3	158	THR	CA-C-N	5.17	124.97	119.28
14	j3	158	THR	C-N-CA	5.17	124.97	119.28
14	f5	90	GLU	N-CA-C	-5.17	105.33	111.69
14	h2	312	VAL	CB-CA-C	-5.17	104.79	111.20
14	h3	199	GLN	CA-C-N	5.17	125.07	119.85
14	h3	199	GLN	C-N-CA	5.17	125.07	119.85
14	j7	240	THR	CA-C-N	5.17	125.15	120.03
14	j7	240	THR	C-N-CA	5.17	125.15	120.03
14	g5	27	PHE	CA-CB-CG	-5.17	108.63	113.80
14	h6	21	ASN	CA-C-N	5.17	125.10	119.78
14	h6	21	ASN	C-N-CA	5.17	125.10	119.78
14	e7	90	GLU	N-CA-C	-5.17	105.34	111.69
14	d5	90	GLU	N-CA-C	-5.16	105.34	111.69
14	g7	388	ILE	N-CA-C	5.16	115.70	108.89
14	l1	125	ASP	N-CA-C	-5.16	105.56	111.14
14	d1	356	PHE	N-CA-C	-5.16	107.03	113.38
14	e4	199	GLN	CA-C-N	5.16	125.06	119.85
14	e4	199	GLN	C-N-CA	5.16	125.06	119.85
14	d9	356	PHE	N-CA-C	-5.16	107.02	113.72
14	e4	158	THR	CA-C-N	5.16	125.45	119.47
14	e4	158	THR	C-N-CA	5.16	125.45	119.47
14	f2	158	THR	CA-C-N	5.16	125.45	119.47
14	f2	158	THR	C-N-CA	5.16	125.45	119.47
14	k4	199	GLN	CA-C-N	5.16	125.06	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	k4	199	GLN	C-N-CA	5.16	125.06	119.85
13	c9	46	ALA	CA-C-N	5.16	125.20	119.32
13	c9	46	ALA	C-N-CA	5.16	125.20	119.32
14	d3	222	LEU	CA-C-N	5.16	125.06	119.85
14	d3	222	LEU	C-N-CA	5.16	125.06	119.85
14	e1	158	THR	CA-C-N	5.16	125.45	119.47
14	e1	158	THR	C-N-CA	5.16	125.45	119.47
14	f7	21	ASN	CA-C-N	5.16	125.09	119.78
14	f7	21	ASN	C-N-CA	5.16	125.09	119.78
14	i9	90	GLU	N-CA-C	-5.16	105.35	111.69
14	g1	199	GLN	CA-C-N	5.16	125.06	119.85
14	g1	199	GLN	C-N-CA	5.16	125.06	119.85
14	g4	21	ASN	CA-C-N	5.16	125.09	119.78
14	g4	21	ASN	C-N-CA	5.16	125.09	119.78
14	d1	233	PHE	N-CA-C	5.15	117.76	108.48
14	e6	245	THR	N-CA-C	5.15	115.34	108.38
14	g4	199	GLN	CA-C-N	5.15	125.06	119.85
14	g4	199	GLN	C-N-CA	5.15	125.06	119.85
14	h1	156	ASN	CA-CB-CG	5.15	117.75	112.60
14	j5	268	ASN	CA-C-N	5.15	124.82	119.56
14	j5	268	ASN	C-N-CA	5.15	124.82	119.56
14	l2	90	GLU	N-CA-C	-5.15	105.35	111.69
14	h1	21	ASN	CA-C-N	5.15	125.09	119.78
14	h1	21	ASN	C-N-CA	5.15	125.09	119.78
14	i9	153	PHE	N-CA-C	-5.15	103.73	110.53
14	d9	21	ASN	CA-C-N	5.15	125.08	119.78
14	d9	21	ASN	C-N-CA	5.15	125.08	119.78
6	a6	23	THR	CA-C-N	5.15	126.27	119.84
6	a6	23	THR	C-N-CA	5.15	126.27	119.84
14	g7	299	ASP	N-CA-C	-5.15	99.38	108.23
14	k7	245	THR	N-CA-C	5.15	116.35	108.42
14	f4	123	ASN	CB-CA-C	-5.14	110.62	116.54
14	i7	299	ASP	N-CA-C	-5.14	99.38	108.23
14	e3	156	ASN	CA-CB-CG	5.14	117.74	112.60
14	k9	364	GLN	N-CA-C	-5.14	101.94	109.50
14	j6	90	GLU	N-CA-C	-5.14	105.37	111.69
14	d7	95	ASP	CA-CB-CG	5.14	117.74	112.60
14	h6	123	ASN	CB-CA-C	-5.14	110.63	116.54
14	j4	213	THR	N-CA-C	5.14	117.28	111.11
14	j8	158	THR	CA-C-N	5.14	125.43	119.47
14	j8	158	THR	C-N-CA	5.14	125.43	119.47
14	d8	268	ASN	CA-C-N	5.14	124.80	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d8	268	ASN	C-N-CA	5.14	124.80	119.56
14	h4	8	LEU	CB-CA-C	-5.14	102.26	110.79
14	k4	388	ILE	N-CA-C	5.14	115.98	108.58
14	f3	21	ASN	CA-C-N	5.13	125.07	119.78
14	f3	21	ASN	C-N-CA	5.13	125.07	119.78
14	h2	134	ASP	CA-CB-CG	5.13	117.73	112.60
14	i7	120	PHE	N-CA-C	5.13	119.82	113.50
14	l0	222	LEU	CA-C-N	5.13	125.11	120.03
14	l0	222	LEU	C-N-CA	5.13	125.11	120.03
14	i5	299	ASP	N-CA-C	-5.13	99.40	108.23
14	k8	21	ASN	CA-C-N	5.13	125.05	119.76
14	k8	21	ASN	C-N-CA	5.13	125.05	119.76
14	l3	122	MET	N-CA-C	5.13	116.64	108.79
14	g3	312	VAL	CB-CA-C	-5.13	104.84	111.20
14	d2	105	ILE	N-CA-C	-5.12	106.80	111.67
14	h3	388	ILE	N-CA-C	5.12	115.65	108.89
14	l2	213	THR	N-CA-C	5.12	116.55	111.07
14	e2	239	ALA	N-CA-C	-5.12	102.47	110.10
14	e3	123	ASN	CB-CA-C	-5.12	110.65	116.54
14	k7	27	PHE	CA-CB-CG	-5.12	108.68	113.80
14	g2	399	ASN	N-CA-C	5.12	117.42	110.35
14	h2	90	GLU	N-CA-C	-5.12	105.39	111.69
14	e2	312	VAL	CB-CA-C	-5.12	105.30	110.93
14	g5	222	LEU	CA-C-N	5.12	125.02	119.85
14	g5	222	LEU	C-N-CA	5.12	125.02	119.85
14	h4	120	PHE	N-CA-C	5.12	119.80	113.50
14	h7	134	ASP	CA-CB-CG	5.12	117.72	112.60
14	i0	120	PHE	N-CA-C	5.12	119.67	113.38
14	i4	134	ASP	CA-CB-CG	5.12	117.72	112.60
14	j1	299	ASP	N-CA-C	-5.12	99.42	108.23
14	e7	27	PHE	CA-CB-CG	-5.12	108.68	113.80
14	e9	240	THR	CA-C-N	5.12	125.12	119.90
14	e9	240	THR	C-N-CA	5.12	125.12	119.90
14	f5	48	GLY	N-CA-C	-5.12	106.56	112.29
6	a6	147	CYS	N-CA-C	5.12	117.91	109.72
14	h1	388	ILE	N-CA-C	5.11	115.94	108.58
14	i2	21	ASN	CA-C-N	5.11	125.05	119.78
14	i2	21	ASN	C-N-CA	5.11	125.05	119.78
14	i7	90	GLU	N-CA-C	-5.11	105.40	111.69
14	j1	158	THR	CA-C-N	5.11	125.40	119.47
14	j1	158	THR	C-N-CA	5.11	125.40	119.47
14	l1	388	ILE	N-CA-C	5.11	115.64	108.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	d1	158	THR	CA-C-N	5.11	125.40	119.47
14	d1	158	THR	C-N-CA	5.11	125.40	119.47
14	d7	27	PHE	CA-CB-CG	-5.11	108.69	113.80
14	h1	268	ASN	CA-C-N	5.11	124.77	119.56
14	h1	268	ASN	C-N-CA	5.11	124.77	119.56
14	j1	399	ASN	N-CA-C	5.11	117.40	110.35
14	j3	166	ILE	N-CA-C	5.11	116.45	110.62
14	j7	148	TYR	CA-C-N	-5.11	117.02	122.85
14	j7	148	TYR	C-N-CA	-5.11	117.02	122.85
14	k8	401	GLU	N-CA-C	5.11	116.85	111.28
14	e5	240	THR	CA-C-N	5.11	125.04	119.78
14	e5	240	THR	C-N-CA	5.11	125.04	119.78
14	g2	213	THR	N-CA-C	5.11	117.24	111.11
14	k0	241	PRO	N-CA-C	-5.11	103.75	111.41
14	k2	233	PHE	N-CA-C	5.11	117.48	108.75
14	e1	299	ASP	N-CA-C	-5.10	99.01	107.99
14	f9	26	PHE	CB-CA-C	-5.10	100.87	110.67
14	g0	90	GLU	N-CA-C	-5.10	105.41	111.69
14	d3	199	GLN	CA-C-N	5.10	125.00	119.85
14	d3	199	GLN	C-N-CA	5.10	125.00	119.85
14	f5	105	ILE	N-CA-C	-5.10	106.70	111.45
14	j0	158	THR	CA-C-N	5.10	125.39	119.47
14	j0	158	THR	C-N-CA	5.10	125.39	119.47
14	h6	222	LEU	CA-C-N	5.10	125.00	119.85
14	h6	222	LEU	C-N-CA	5.10	125.00	119.85
14	k4	120	PHE	N-CA-C	5.10	119.77	113.50
14	g5	74	PHE	CA-C-N	-5.10	116.32	123.10
14	g5	74	PHE	C-N-CA	-5.10	116.32	123.10
14	g5	90	GLU	N-CA-C	-5.10	105.42	111.69
14	k1	21	ASN	CA-C-N	5.10	125.01	119.76
14	k1	21	ASN	C-N-CA	5.10	125.01	119.76
14	d7	399	ASN	N-CA-C	5.10	117.38	110.35
14	g7	74	PHE	CA-C-N	-5.10	116.32	123.10
14	g7	74	PHE	C-N-CA	-5.10	116.32	123.10
14	g9	120	PHE	N-CA-C	5.10	119.65	113.38
14	j4	401	GLU	N-CA-C	5.10	116.83	111.28
14	i2	312	VAL	N-CA-C	5.09	117.79	112.90
14	i5	388	ILE	N-CA-C	5.09	115.92	108.58
14	i9	399	ASN	N-CA-C	5.09	117.38	110.35
14	g2	388	ILE	N-CA-C	5.09	115.61	108.89
14	h4	268	ASN	CA-C-N	5.09	124.75	119.56
14	h4	268	ASN	C-N-CA	5.09	124.75	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	c7	125	GLY	N-CA-C	-5.09	101.12	113.18
14	g0	64	GLY	N-CA-C	-5.09	106.68	112.79
12	c6	45	ALA	N-CA-C	5.09	116.88	109.71
14	i1	356	PHE	N-CA-C	-5.09	107.12	113.38
14	f6	21	ASN	CA-C-N	5.08	125.02	119.78
14	f6	21	ASN	C-N-CA	5.08	125.02	119.78
14	i8	213	THR	N-CA-C	5.08	116.51	111.07
14	l1	27	PHE	CA-CB-CG	-5.08	108.72	113.80
14	e6	199	GLN	CA-C-N	5.08	124.98	119.85
14	e6	199	GLN	C-N-CA	5.08	124.98	119.85
14	i6	245	THR	N-CA-C	5.08	115.24	108.38
14	j7	90	GLU	N-CA-C	-5.08	105.44	111.69
14	f4	388	ILE	N-CA-C	5.08	115.60	108.89
14	i2	105	ILE	N-CA-C	-5.08	106.73	111.45
14	e0	123	ASN	CB-CA-C	-5.08	110.70	116.54
13	c9	101	GLY	N-CA-C	-5.08	108.00	114.85
14	j3	213	THR	N-CA-C	5.08	117.20	111.11
14	l1	158	THR	CA-C-N	5.08	125.36	119.47
14	l1	158	THR	C-N-CA	5.08	125.36	119.47
14	e0	222	LEU	CA-C-N	5.07	124.97	119.85
14	e0	222	LEU	C-N-CA	5.07	124.97	119.85
14	f3	222	LEU	CA-C-N	5.07	124.97	119.85
14	f3	222	LEU	C-N-CA	5.07	124.97	119.85
14	g1	222	LEU	CA-C-N	5.07	124.97	119.85
14	g1	222	LEU	C-N-CA	5.07	124.97	119.85
14	h8	123	ASN	CB-CA-C	-5.07	110.70	116.54
14	j0	388	ILE	N-CA-C	5.07	115.89	108.58
14	e6	356	PHE	N-CA-C	-5.07	107.14	113.38
14	e7	401	GLU	N-CA-C	5.07	116.81	111.28
14	i0	158	THR	CA-C-N	5.07	124.73	119.56
14	i0	158	THR	C-N-CA	5.07	124.73	119.56
7	a7	89	ILE	CB-CA-C	-5.07	106.62	111.44
14	e5	74	PHE	CA-CB-CG	5.07	118.87	113.80
14	h2	268	ASN	CA-C-N	5.07	124.73	119.56
14	h2	268	ASN	C-N-CA	5.07	124.73	119.56
14	h5	399	ASN	N-CA-C	5.07	117.35	110.35
14	h6	27	PHE	CA-CB-CG	-5.07	108.73	113.80
14	l0	156	ASN	CA-CB-CG	5.07	117.67	112.60
11	c3	21	LYS	CA-C-N	5.07	131.22	121.54
11	c3	21	LYS	C-N-CA	5.07	131.22	121.54
14	d0	299	ASP	N-CA-C	-5.07	99.07	107.99
14	e6	399	ASN	N-CA-C	5.07	117.34	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	h1	121	ARG	N-CA-C	-5.07	102.57	110.42
14	i5	222	LEU	CA-C-N	5.07	124.97	119.85
14	i5	222	LEU	C-N-CA	5.07	124.97	119.85
14	i8	399	ASN	N-CA-C	5.07	117.34	110.35
14	l1	401	GLU	N-CA-C	5.07	116.80	111.28
14	e1	21	ASN	CA-C-N	5.07	124.98	119.76
14	e1	21	ASN	C-N-CA	5.07	124.98	119.76
14	h7	27	PHE	CA-CB-CG	-5.07	108.73	113.80
14	h7	222	LEU	CA-C-N	5.07	125.05	120.03
14	h7	222	LEU	C-N-CA	5.07	125.05	120.03
14	i2	134	ASP	CA-CB-CG	5.07	117.67	112.60
14	j8	222	LEU	CA-C-N	5.07	124.97	119.85
14	j8	222	LEU	C-N-CA	5.07	124.97	119.85
14	k2	158	THR	CA-C-N	5.07	124.73	119.56
14	k2	158	THR	C-N-CA	5.07	124.73	119.56
14	f5	401	GLU	N-CA-C	5.06	116.88	111.36
14	e0	213	THR	N-CA-C	5.06	117.19	111.11
14	l0	268	ASN	CA-C-N	5.06	124.72	119.56
14	l0	268	ASN	C-N-CA	5.06	124.72	119.56
14	e9	356	PHE	N-CA-C	-5.06	106.52	113.30
14	h8	154	PHE	N-CA-C	5.06	117.45	111.33
14	d7	48	GLY	N-CA-C	-5.06	106.31	112.68
14	k0	299	ASP	N-CA-C	-5.06	99.53	108.23
14	l3	434	ALA	CA-C-N	-5.06	115.87	123.00
14	l3	434	ALA	C-N-CA	-5.06	115.87	123.00
14	d7	8	LEU	CB-CA-C	-5.06	102.39	110.79
14	f4	213	THR	N-CA-C	5.06	116.48	111.07
14	g0	399	ASN	N-CA-C	5.06	117.33	110.35
14	l2	199	GLN	CA-C-N	5.06	124.96	119.85
14	l2	199	GLN	C-N-CA	5.06	124.96	119.85
14	f5	199	GLN	CA-C-N	5.06	124.96	119.85
14	f5	199	GLN	C-N-CA	5.06	124.96	119.85
14	j6	125	ASP	N-CA-C	-5.06	105.68	111.14
14	e0	156	ASN	CA-CB-CG	5.05	117.66	112.60
14	g8	299	ASP	N-CA-C	-5.05	99.54	108.23
14	f4	222	LEU	CA-C-N	5.05	124.95	119.85
14	f4	222	LEU	C-N-CA	5.05	124.95	119.85
14	d9	388	ILE	N-CA-C	5.05	115.85	108.58
14	f2	213	THR	N-CA-C	5.05	116.48	111.07
14	j5	21	ASN	CA-C-N	5.05	124.98	119.78
14	j5	21	ASN	C-N-CA	5.05	124.98	119.78
14	k1	399	ASN	N-CA-C	5.05	117.32	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	l2	27	PHE	CA-CB-CG	-5.05	108.75	113.80
14	j9	123	ASN	CB-CA-C	-5.05	110.73	116.54
14	j9	299	ASP	N-CA-C	-5.05	99.54	108.23
14	k3	199	GLN	CA-C-N	5.05	124.95	119.85
14	k3	199	GLN	C-N-CA	5.05	124.95	119.85
14	k3	233	PHE	N-CA-C	5.05	117.39	108.75
14	k9	356	PHE	N-CA-C	-5.05	107.16	113.72
14	f1	356	PHE	N-CA-C	-5.04	107.16	113.72
14	g4	222	LEU	CA-C-N	5.04	124.95	119.85
14	g4	222	LEU	C-N-CA	5.04	124.95	119.85
14	k8	268	ASN	CA-C-N	5.04	124.71	119.56
14	k8	268	ASN	C-N-CA	5.04	124.71	119.56
14	h0	222	LEU	CA-C-N	5.04	124.94	119.85
14	h0	222	LEU	C-N-CA	5.04	124.94	119.85
14	i7	222	LEU	CA-C-N	5.04	124.94	119.85
14	i7	222	LEU	C-N-CA	5.04	124.94	119.85
14	i7	364	GLN	CA-C-N	5.04	125.04	119.90
14	i7	364	GLN	C-N-CA	5.04	125.04	119.90
14	k0	268	ASN	CA-C-N	5.04	124.70	119.56
14	k0	268	ASN	C-N-CA	5.04	124.70	119.56
14	d3	396	VAL	N-CA-C	5.04	115.27	110.53
14	d6	27	PHE	CA-CB-CG	-5.04	108.76	113.80
14	e3	399	ASN	N-CA-C	5.04	117.31	110.35
14	h2	257	HIS	CA-C-N	5.04	126.14	119.84
14	h2	257	HIS	C-N-CA	5.04	126.14	119.84
14	h7	314	ASP	N-CA-C	-5.04	105.25	111.40
14	g7	90	GLU	N-CA-C	-5.04	105.49	111.69
14	i4	21	ASN	CA-C-N	5.04	124.97	119.78
14	i4	21	ASN	C-N-CA	5.04	124.97	119.78
14	l2	156	ASN	CA-CB-CG	5.04	117.64	112.60
14	j0	432	GLY	CA-C-O	-5.04	116.94	121.47
14	d2	213	THR	N-CA-C	5.04	116.46	111.07
14	j5	39	ILE	N-CA-C	5.04	115.16	108.11
14	g1	158	THR	CA-C-N	5.03	125.31	119.47
14	g1	158	THR	C-N-CA	5.03	125.31	119.47
14	i5	430	MET	CA-C-N	-5.03	117.13	122.67
14	i5	430	MET	C-N-CA	-5.03	117.13	122.67
14	l0	134	ASP	CA-CB-CG	5.03	117.63	112.60
14	g3	199	GLN	CA-C-N	5.03	124.93	119.85
14	g3	199	GLN	C-N-CA	5.03	124.93	119.85
14	j8	122	MET	N-CA-C	5.03	116.49	108.79
14	k2	74	PHE	CA-C-N	-5.03	116.41	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	k2	74	PHE	C-N-CA	-5.03	116.41	123.10
14	l0	213	THR	N-CA-C	5.03	116.45	111.07
12	c7	82	GLU	N-CA-C	-5.03	100.09	110.80
14	e3	222	LEU	CA-C-N	5.03	124.93	119.85
14	e3	222	LEU	C-N-CA	5.03	124.93	119.85
14	e4	356	PHE	N-CA-C	-5.03	107.18	113.72
14	h4	401	GLU	N-CA-C	5.03	116.76	111.28
6	a6	141	PHE	N-CA-C	5.03	116.48	108.79
14	i6	428	SER	CB-CA-C	-5.03	104.46	111.80
14	g0	158	THR	CA-C-N	5.02	125.30	119.47
14	g0	158	THR	C-N-CA	5.02	125.30	119.47
14	f9	388	ILE	N-CA-C	5.02	115.81	108.58
14	e1	240	THR	CA-C-N	5.02	124.95	119.78
14	e1	240	THR	C-N-CA	5.02	124.95	119.78
14	e1	268	ASN	CA-C-N	5.02	124.68	119.56
14	e1	268	ASN	C-N-CA	5.02	124.68	119.56
14	j0	21	ASN	CA-C-N	5.02	124.93	119.76
14	j0	21	ASN	C-N-CA	5.02	124.93	119.76
14	f5	312	VAL	CB-CA-C	-5.02	104.98	111.20
14	h0	299	ASP	N-CA-C	-5.02	99.60	108.23
14	j3	74	PHE	CA-CB-CG	5.02	118.82	113.80
14	l1	299	ASP	N-CA-C	-5.02	99.60	108.23
14	d9	222	LEU	CA-C-N	5.02	125.00	120.03
14	d9	222	LEU	C-N-CA	5.02	125.00	120.03
14	g7	356	PHE	N-CA-C	-5.02	107.20	113.72
14	k5	21	ASN	CA-C-N	5.02	124.95	119.78
14	k5	21	ASN	C-N-CA	5.02	124.95	119.78
14	l0	74	PHE	CA-CB-CG	5.02	118.82	113.80
14	d3	213	THR	N-CA-C	5.01	117.13	111.11
14	e4	388	ILE	N-CA-C	5.01	115.80	108.58
14	i2	299	ASP	N-CA-C	-5.01	99.60	108.23
14	h1	314	ASP	N-CA-C	-5.01	105.29	111.40
14	j8	299	ASP	N-CA-C	-5.01	99.61	108.23
14	k6	156	ASN	CA-CB-CG	5.01	117.61	112.60
14	k6	401	GLU	N-CA-C	5.01	116.74	111.28
14	j4	299	ASP	N-CA-C	-5.01	99.62	108.23
14	g4	364	GLN	CA-C-N	5.01	125.01	119.90
14	g4	364	GLN	C-N-CA	5.01	125.01	119.90
14	h2	356	PHE	N-CA-C	-5.01	107.22	113.38
14	k1	268	ASN	CA-C-N	5.01	124.67	119.56
14	k1	268	ASN	C-N-CA	5.01	124.67	119.56
14	k4	74	PHE	CA-C-N	-5.01	116.61	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	k4	74	PHE	C-N-CA	-5.01	116.61	123.12
14	l0	123	ASN	CB-CA-C	-5.01	110.78	116.54
14	f5	21	ASN	CA-C-N	5.00	124.92	119.76
14	f5	21	ASN	C-N-CA	5.00	124.92	119.76
14	g9	299	ASP	N-CA-C	-5.00	99.18	107.99
14	k9	312	VAL	CB-CA-C	-5.00	105.00	111.20
14	l3	388	ILE	N-CA-C	5.00	115.89	108.23
14	i4	213	THR	N-CA-C	5.00	117.11	111.11
14	k1	222	LEU	CA-C-N	5.00	124.90	119.85
14	k1	222	LEU	C-N-CA	5.00	124.90	119.85
14	k2	31	TYR	N-CA-C	-5.00	102.39	110.14

There are no chirality outliers.

There are no planarity outliers.

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	a0	733	0	706	9	0
2	a1	718	0	588	110	0
3	a2	650	0	564	103	0
3	a3	485	0	425	84	0
4	a4	1088	0	874	46	0
5	a5	1326	0	1193	115	0
6	a6	1192	0	1133	10	0
7	a7	543	0	455	10	0
8	a8	988	0	900	35	0
9	a9	311	0	257	38	0
9	b0	398	0	325	23	0
9	b1	368	0	314	54	0
9	b2	350	0	314	26	0
9	b3	335	0	275	52	0
9	b4	350	0	299	52	0
9	b5	367	0	296	34	0
9	b7	375	0	345	47	0
9	b8	379	0	301	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	c0	338	0	292	31	0
9	c1	335	0	285	30	0
9	l5	392	0	325	76	0
10	b6	3210	0	2777	308	0
11	c2	603	0	404	42	0
11	c3	389	0	308	47	0
11	c4	369	0	262	35	0
11	c5	396	0	327	35	0
12	c6	951	0	834	165	0
12	c7	1004	0	875	163	0
12	c8	813	0	754	133	0
13	c9	1191	0	1134	73	0
14	d0	3369	0	3266	75	0
14	d1	3382	0	3278	96	0
14	d2	3387	0	3283	78	0
14	d3	3382	0	3278	47	0
14	d4	3382	0	3278	48	0
14	d5	3383	0	3279	50	0
14	d6	3387	0	3283	78	0
14	d7	3381	0	3272	59	0
14	d8	3390	0	3284	82	0
14	d9	3395	0	3289	84	0
14	e0	3390	0	3284	93	0
14	e1	3382	0	3278	76	0
14	e2	3382	0	3278	47	0
14	e3	3387	0	3283	61	0
14	e4	3382	0	3278	97	0
14	e5	3390	0	3284	69	0
14	e6	3395	0	3289	81	0
14	e7	3390	0	3284	61	0
14	e8	3390	0	3284	58	0
14	e9	3387	0	3283	62	0
14	f0	3375	0	3271	97	0
14	f1	3387	0	3280	96	0
14	f2	3395	0	3289	101	0
14	f3	3383	0	3277	68	0
14	f4	3382	0	3278	100	0
14	f5	3376	0	3267	69	0
14	f6	3387	0	3283	90	0
14	f7	3372	0	3267	92	0
14	f8	3378	0	3275	97	0
14	f9	3379	0	3274	117	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	g0	3387	0	3280	35	0
14	g1	3387	0	3283	67	0
14	g2	3382	0	3278	58	0
14	g3	3382	0	3278	126	0
14	g4	3390	0	3284	69	0
14	g5	3387	0	3283	66	0
14	g6	3387	0	3283	90	0
14	g7	3376	0	3267	66	0
14	g8	3395	0	3289	81	0
14	g9	3390	0	3284	91	0
14	h0	3387	0	3283	63	0
14	h1	3387	0	3283	59	0
14	h2	3382	0	3278	74	0
14	h3	3390	0	3284	61	0
14	h4	3382	0	3278	63	0
14	h5	3382	0	3278	73	0
14	h6	3382	0	3278	111	0
14	h7	3395	0	3289	80	0
14	h8	3387	0	3283	73	0
14	h9	3381	0	3272	61	0
14	i0	3390	0	3284	60	0
14	i1	3382	0	3278	76	0
14	i2	3382	0	3278	65	0
14	i3	3382	0	3278	87	0
14	i4	3384	0	3273	71	0
14	i5	3395	0	3289	100	0
14	i6	3382	0	3278	117	0
14	i7	3382	0	3278	102	0
14	i8	3388	0	3282	74	0
14	i9	3387	0	3283	66	0
14	j0	3392	0	3287	119	0
14	j1	3387	0	3283	85	0
14	j2	3387	0	3283	49	0
14	j3	3387	0	3282	105	0
14	j4	3382	0	3278	69	0
14	j5	3382	0	3278	67	0
14	j6	3382	0	3278	67	0
14	j7	3395	0	3289	95	0
14	j8	3390	0	3284	85	0
14	j9	3387	0	3283	35	0
14	k0	3382	0	3278	93	0
14	k1	3387	0	3283	101	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	k2	3387	0	3283	75	0
14	k3	3382	0	3278	76	0
14	k4	3395	0	3289	62	0
14	k5	3395	0	3289	105	0
14	k6	3391	0	3284	79	0
14	k7	3387	0	3278	78	0
14	k8	3391	0	3284	82	0
14	k9	3381	0	3272	89	0
14	l0	3391	0	3284	60	0
14	l1	3391	0	3284	53	0
14	l2	3382	0	3278	100	0
14	l3	3396	0	3289	71	0
15	l4	487	0	428	13	0
All	All	305842	0	294139	6281	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 10.

All (6281) 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)
14:e5:27:PHE:CZ	14:k1:209:ILE:HG21	1.36	1.60
14:e9:260:LYS:HE2	14:e9:360:PRO:CA	1.34	1.54
9:b5:198:PRO:HG3	14:g7:170:TYR:CE2	1.45	1.48
14:e5:27:PHE:CE2	14:k1:209:ILE:HG21	1.49	1.48
14:e9:260:LYS:CE	14:e9:360:PRO:HA	1.42	1.46
14:g3:209:ILE:HG21	14:j1:27:PHE:CE1	1.50	1.45
9:b3:155:LEU:HD11	14:e2:166:ILE:CD1	1.44	1.43
14:d9:17:TYR:CE2	14:g7:227:LEU:HD13	1.53	1.42
14:h4:209:ILE:HD13	14:k2:27:PHE:CE1	1.54	1.41
14:g6:209:ILE:HG21	14:j4:27:PHE:CZ	1.57	1.38
14:i0:209:ILE:HG21	14:k8:27:PHE:CE1	1.59	1.38
14:g4:306:TYR:CE1	14:g4:346:VAL:HG12	1.59	1.37
3:a3:236:LEU:HD12	14:i7:23:GLN:C	1.51	1.36
12:c6:58:LEU:HD11	14:f6:430:MET:SD	1.65	1.35
9:b4:160:TRP:CZ2	14:d9:427:MET:HB3	1.62	1.34
14:e6:61:SER:CB	14:e6:63:ASN:HD21	1.39	1.34
12:c7:85:PHE:HE2	14:i3:375:ASP:CA	1.41	1.33
12:c8:85:PHE:CD2	14:i2:375:ASP:HB2	1.60	1.33
14:i5:252:ARG:CD	14:k5:252:ARG:HD3	1.57	1.33
14:g6:209:ILE:HG21	14:j4:27:PHE:CE2	1.64	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i0:209:ILE:HG21	14:k8:27:PHE:CZ	1.64	1.31
12:c7:49:ALA:HB2	14:i3:220:ALA:CB	1.60	1.31
14:e4:27:PHE:CZ	14:k0:209:ILE:HG21	1.64	1.31
2:a1:154:LEU:HD12	3:a2:284:TYR:CZ	1.66	1.31
14:d1:209:ILE:HD13	14:f9:27:PHE:CE1	1.66	1.31
2:a1:150:LEU:HD22	14:d2:425:ARG:NH1	1.44	1.31
10:b6:262:ALA:HB3	14:h5:321:ASN:ND2	1.44	1.30
9:b3:155:LEU:CD1	14:e2:166:ILE:HD11	1.62	1.29
14:i5:252:ARG:HD3	14:k5:252:ARG:CD	1.60	1.29
2:a1:150:LEU:CD2	14:d2:425:ARG:HH12	1.47	1.28
14:e9:60:ILE:HG23	14:e9:208:TYR:OH	1.31	1.27
2:a1:117:THR:HG21	14:d2:429:GLY:CA	1.65	1.27
14:d8:27:PHE:CZ	14:j4:209:ILE:HG21	1.69	1.27
14:j8:211:LEU:HD22	14:j8:215:GLU:CD	1.58	1.27
10:b6:264:VAL:O	14:e7:9:VAL:HG21	1.27	1.26
14:d0:27:PHE:CE1	14:i6:209:ILE:HG21	1.69	1.26
14:k6:252:ARG:NH1	14:k6:254:ASN:HA	1.45	1.25
12:c6:85:PHE:CD2	14:f6:375:ASP:HB3	1.72	1.25
12:c7:85:PHE:CE2	14:i3:375:ASP:HB2	1.69	1.25
14:i1:260:LYS:HD3	14:i1:421:TYR:OH	1.34	1.25
3:a3:286:LEU:CD2	14:f9:22:PRO:HG3	1.67	1.25
14:j5:211:LEU:O	14:j5:216:ARG:HD2	1.33	1.25
14:l3:260:LYS:HD3	14:l3:421:TYR:OH	1.31	1.24
5:a5:210:TYR:CE1	13:c9:116:THR:HG21	1.72	1.24
10:b6:190:VAL:HG13	14:g3:430:MET:CE	1.68	1.24
3:a3:224:ASN:ND2	14:f9:30:VAL:HB	1.52	1.23
14:h4:209:ILE:HG21	14:k2:27:PHE:CE1	1.74	1.23
12:c7:85:PHE:CD2	14:i3:375:ASP:HB2	1.73	1.23
14:f1:27:PHE:CE1	14:k7:209:ILE:HG21	1.71	1.23
14:g8:60:ILE:HG23	14:g8:208:TYR:OH	1.36	1.22
14:f3:260:LYS:CG	14:f3:421:TYR:HE1	1.52	1.22
9:b2:166:GLN:HB3	14:j7:375:ASP:OD2	1.36	1.21
12:c6:140:TYR:CE1	14:h8:213:THR:HG23	1.73	1.21
14:e5:27:PHE:CZ	14:k1:209:ILE:CG2	2.22	1.21
14:j9:260:LYS:HE3	14:j9:360:PRO:CA	1.71	1.21
14:j3:281:ILE:CD1	14:j3:284:ALA:HB2	1.70	1.21
14:f3:260:LYS:HD3	14:f3:421:TYR:OH	1.40	1.20
2:a1:185:PHE:CE2	14:i6:425:ARG:HD2	1.75	1.20
14:g3:99:GLU:OE2	14:g3:102:GLY:HA2	1.38	1.20
3:a3:286:LEU:HD23	14:f9:22:PRO:CG	1.72	1.19
12:c6:137:PHE:CE2	14:k2:436:ALA:HB1	1.75	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f1:27:PHE:CZ	14:k7:209:ILE:HG21	1.74	1.19
14:k1:60:ILE:HG23	14:k1:208:TYR:OH	1.42	1.19
14:k8:260:LYS:HD3	14:k8:421:TYR:OH	1.41	1.19
14:l3:260:LYS:CG	14:l3:421:TYR:HE1	1.55	1.19
10:b6:243:THR:HG23	14:j3:169:GLN:O	1.43	1.19
14:e0:60:ILE:HG23	14:e0:208:TYR:OH	1.43	1.19
14:g4:306:TYR:CE1	14:g4:346:VAL:CG1	2.26	1.19
14:j0:101:GLY:HA3	14:j0:171:HIS:ND1	1.56	1.19
14:j1:99:GLU:OE2	14:j1:102:GLY:HA2	1.42	1.19
8:a8:131:ALA:HB1	8:a8:136:PHE:CZ	1.77	1.18
14:e7:60:ILE:HG23	14:e7:208:TYR:OH	1.40	1.18
14:h4:209:ILE:HG21	14:k2:27:PHE:CZ	1.78	1.18
14:k8:260:LYS:CG	14:k8:421:TYR:HE2	1.55	1.18
9:a9:165:THR:HG21	14:f7:14:GLN:CD	1.69	1.18
14:f8:99:GLU:OE2	14:f8:102:GLY:HA2	1.44	1.18
14:g1:99:GLU:OE2	14:g1:102:GLY:HA2	1.42	1.18
8:a8:131:ALA:CB	8:a8:136:PHE:HZ	1.58	1.17
14:k1:260:LYS:NZ	14:k1:357:ALA:HB1	1.57	1.17
14:k5:100:ILE:HD12	14:k5:105:ILE:CD1	1.74	1.17
14:d2:27:PHE:CE1	14:i8:209:ILE:HG21	1.79	1.17
14:g8:17:TYR:CD2	14:j6:423:VAL:HG21	1.80	1.17
5:a5:152:SER:C	5:a5:153:LEU:HD12	1.70	1.17
9:b5:198:PRO:CG	14:g7:170:TYR:HE2	1.57	1.17
14:d8:60:ILE:HG23	14:d8:208:TYR:OH	1.44	1.17
14:j6:260:LYS:HE3	14:j6:360:PRO:CA	1.74	1.17
3:a3:224:ASN:HD22	14:f9:30:VAL:CB	1.58	1.17
14:d1:209:ILE:HD13	14:f9:27:PHE:CD1	1.78	1.17
14:d4:260:LYS:HE3	14:d4:360:PRO:CA	1.74	1.17
14:d2:27:PHE:CE1	14:i8:209:ILE:HD13	1.79	1.16
14:d6:114:ARG:NH2	14:d6:117:ASP:HB3	1.57	1.16
14:i1:260:LYS:CG	14:i1:421:TYR:HE1	1.57	1.16
14:k3:260:LYS:HE3	14:k3:360:PRO:CA	1.75	1.16
14:k5:211:LEU:HD22	14:k5:215:GLU:CD	1.68	1.16
14:g6:209:ILE:CG2	14:j4:27:PHE:CZ	2.28	1.16
14:g6:209:ILE:HG12	14:j4:27:PHE:CE2	1.79	1.16
14:e0:209:ILE:HG21	14:g8:27:PHE:CZ	1.79	1.16
14:d2:27:PHE:CD1	14:i8:209:ILE:HD13	1.79	1.16
14:e4:209:ILE:HD13	14:h2:27:PHE:CE1	1.81	1.15
14:g1:260:LYS:HE3	14:g1:360:PRO:CA	1.75	1.15
14:g6:209:ILE:HG12	14:j4:27:PHE:HE2	0.99	1.15
14:h6:260:LYS:NZ	14:h6:357:ALA:HB1	1.59	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k1:260:LYS:HD2	14:k1:357:ALA:HB2	1.15	1.15
11:c4:17:HIS:NE2	14:h9:431:GLY:HA2	1.61	1.15
14:f0:60:ILE:HD11	14:f0:173:VAL:HB	1.27	1.15
14:g8:260:LYS:HD3	14:g8:360:PRO:HA	1.24	1.15
12:c7:41:GLN:CB	14:f4:170:TYR:CD1	2.29	1.15
14:d1:99:GLU:OE2	14:d1:102:GLY:HA2	1.45	1.15
14:f3:60:ILE:HG23	14:f3:208:TYR:OH	1.45	1.15
5:a5:62:THR:HG21	14:g3:425:ARG:CD	1.75	1.15
10:b6:190:VAL:CG1	14:g3:430:MET:HE1	1.76	1.15
13:c9:165:PHE:HZ	14:f9:425:ARG:HB2	1.11	1.15
14:j0:100:ILE:HD12	14:j0:105:ILE:CD1	1.75	1.15
14:k1:260:LYS:HD2	14:k1:357:ALA:CB	1.77	1.15
5:a5:62:THR:HG21	14:g3:425:ARG:HD3	1.17	1.14
14:g6:260:LYS:HE3	14:g6:360:PRO:CA	1.76	1.14
14:i6:99:GLU:OE2	14:i6:102:GLY:HA2	1.43	1.14
14:l0:260:LYS:CG	14:l0:421:TYR:HE1	1.59	1.14
14:d4:99:GLU:OE2	14:d4:102:GLY:HA2	1.42	1.14
14:g3:209:ILE:CG2	14:j1:27:PHE:CE1	2.29	1.14
14:k9:260:LYS:HD3	14:k9:421:TYR:OH	1.45	1.14
11:c3:15:ASP:HB2	14:h2:5:LEU:HD22	1.28	1.14
11:c4:10:SER:C	14:e6:62:ARG:HH21	1.55	1.14
14:d3:260:LYS:NZ	14:d3:357:ALA:HB1	1.63	1.14
14:d3:260:LYS:HZ1	14:d3:357:ALA:HB1	1.02	1.14
14:d8:17:TYR:CE2	14:g6:227:LEU:HD13	1.83	1.14
9:c1:163:VAL:HG23	14:h7:434:ALA:O	1.47	1.14
14:e7:67:ILE:HG22	14:e7:208:TYR:CD2	1.82	1.14
14:j0:101:GLY:HA3	14:j0:171:HIS:HD1	1.10	1.14
2:a1:115:ASN:HD21	14:d2:430:MET:HE3	1.09	1.14
14:j0:105:ILE:HG12	14:j0:433:LEU:CD2	1.78	1.14
8:a8:131:ALA:CB	8:a8:136:PHE:CZ	2.29	1.13
12:c8:88:VAL:HG22	14:f4:9:VAL:HG13	1.22	1.13
14:i2:99:GLU:OE1	14:i2:102:GLY:HA2	1.46	1.13
14:j7:105:ILE:HG23	14:j7:433:LEU:HD21	1.20	1.13
12:c8:106:VAL:HB	14:f3:169:GLN:NE2	1.61	1.13
14:j3:281:ILE:HG12	14:j3:284:ALA:CB	1.77	1.13
14:f2:260:LYS:HE3	14:f2:360:PRO:HA	1.17	1.13
14:h4:209:ILE:CD1	14:k2:27:PHE:HE1	1.62	1.13
10:b6:233:LEU:HD22	14:d7:9:VAL:HG23	1.25	1.12
10:b6:318:TYR:CD2	14:l3:5:LEU:HD23	1.84	1.12
9:c1:162:GLY:O	14:h7:436:ALA:HB2	1.49	1.12
12:c7:85:PHE:CE2	14:i3:375:ASP:CB	2.32	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g4:60:ILE:HG23	14:g4:208:TYR:OH	1.47	1.13
14:i6:60:ILE:CD1	14:i6:165:LEU:HD22	1.78	1.12
14:j9:306:TYR:HE2	14:j9:346:VAL:CG1	1.61	1.12
5:a5:62:THR:HB	14:g3:427:MET:HE1	1.31	1.12
10:b6:297:ARG:HD3	14:e9:256:ASN:HB3	1.26	1.12
13:c9:95:GLN:HA	9:l5:165:THR:O	1.46	1.12
14:d6:260:LYS:HE3	14:d6:360:PRO:CA	1.79	1.12
14:f5:99:GLU:OE2	14:f5:102:GLY:HA2	1.48	1.12
14:j0:100:ILE:CD1	14:j0:105:ILE:CD1	2.26	1.12
10:b6:243:THR:CG2	14:j3:170:TYR:C	2.23	1.12
14:i6:60:ILE:HG12	14:i6:173:VAL:HG13	1.25	1.12
10:b6:262:ALA:CB	14:h5:321:ASN:HD21	1.62	1.12
9:b7:192:MET:HE3	14:i9:101:GLY:O	1.48	1.12
11:c5:46:LEU:CB	14:f0:21:ASN:CG	2.22	1.12
12:c7:109:MET:HE2	14:k8:220:ALA:CB	1.79	1.12
14:j3:281:ILE:HG12	14:j3:284:ALA:HB3	1.18	1.12
14:h0:99:GLU:OE2	14:h0:102:GLY:HA2	1.46	1.12
14:i9:260:LYS:HE3	14:i9:360:PRO:HA	1.14	1.12
13:c9:165:PHE:CZ	14:f9:425:ARG:HB2	1.86	1.11
14:d0:72:VAL:HG11	14:d0:74:PHE:CZ	1.84	1.11
14:f6:62:ARG:HH22	14:f6:172:GLU:HA	1.05	1.11
14:i8:260:LYS:NZ	14:i8:357:ALA:HB1	1.64	1.11
10:b6:247:LYS:HG2	14:j3:170:TYR:HB3	1.29	1.11
12:c6:85:PHE:CE2	14:f6:375:ASP:HB3	1.85	1.11
12:c8:113:ASN:OD1	14:f3:213:THR:HG22	1.48	1.11
14:j0:100:ILE:HD12	14:j0:105:ILE:HD11	1.28	1.11
12:c8:106:VAL:HB	14:f3:169:GLN:HE22	1.03	1.11
14:d8:17:TYR:CE2	14:g6:227:LEU:HB2	1.85	1.11
14:f7:260:LYS:HE3	14:f7:360:PRO:HA	1.26	1.11
14:j8:99:GLU:OE2	14:j8:102:GLY:HA2	1.48	1.11
14:l0:260:LYS:HG3	14:l0:421:TYR:HE1	1.15	1.11
14:e8:99:GLU:OE2	14:e8:102:GLY:HA2	1.47	1.11
14:e6:61:SER:HB2	14:e6:63:ASN:ND2	1.63	1.11
14:f0:114:ARG:NH2	14:f0:117:ASP:HB3	1.64	1.11
14:j3:281:ILE:HD11	14:j3:284:ALA:HB2	1.15	1.11
9:b4:162:GLY:HA2	14:j6:216:ARG:NH1	1.64	1.10
10:b6:265:LEU:HD22	14:e7:5:LEU:HD11	1.21	1.10
12:c7:85:PHE:CE2	14:i3:375:ASP:CA	2.33	1.10
12:c6:149:LEU:HD13	14:k2:169:GLN:HG3	1.23	1.10
12:c8:85:PHE:CE2	14:i2:375:ASP:CB	2.34	1.10
14:e0:209:ILE:HG12	14:g8:27:PHE:HE1	1.14	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j5:72:VAL:HG12	14:j5:74:PHE:CE2	1.85	1.10
14:k0:60:ILE:HG23	14:k0:208:TYR:OH	1.47	1.10
14:d9:17:TYR:CD2	14:g7:227:LEU:HD13	1.85	1.10
14:e2:260:LYS:HE2	14:e2:360:PRO:CA	1.81	1.10
14:h6:425:ARG:NH2	14:h6:427:MET:SD	2.24	1.10
12:c8:81:SER:CB	14:f3:375:ASP:HB3	1.82	1.10
14:d6:260:LYS:HE3	14:d6:360:PRO:HA	1.12	1.10
14:i4:260:LYS:NZ	14:i4:357:ALA:HB1	1.66	1.10
2:a1:117:THR:CG2	14:d2:429:GLY:HA3	1.80	1.10
12:c6:59:SER:HB3	14:f5:169:GLN:CD	1.77	1.10
14:f1:260:LYS:HD3	14:f1:360:PRO:HA	1.30	1.10
14:h4:215:GLU:HB2	14:h4:218:ARG:NH2	1.66	1.10
14:j3:281:ILE:CG1	14:j3:284:ALA:CB	2.29	1.10
14:j9:306:TYR:CE2	14:j9:346:VAL:HG12	1.86	1.10
4:a4:108:PHE:CE2	4:a4:132:LYS:CB	2.34	1.09
9:b1:193:MET:HA	14:j0:430:MET:HE1	1.10	1.09
14:i8:260:LYS:HE3	14:i8:360:PRO:HA	1.28	1.09
14:k9:260:LYS:CG	14:k9:421:TYR:HE1	1.65	1.09
9:b1:178:ARG:HH22	14:j0:210:PHE:HA	1.14	1.09
14:i6:60:ILE:HD13	14:i6:165:LEU:HD22	1.35	1.09
14:j5:72:VAL:CG1	14:j5:74:PHE:CE2	2.36	1.09
14:j7:114:ARG:NH2	14:j7:117:ASP:HB3	1.68	1.09
14:k1:260:LYS:HE3	14:k1:360:PRO:HA	1.25	1.09
5:a5:32:PHE:CE2	14:d6:427:MET:HE3	1.87	1.09
14:f3:14:GLN:HE21	14:i1:258:PRO:HD3	1.10	1.09
14:i0:209:ILE:CG2	14:k8:27:PHE:CZ	2.34	1.09
11:c2:26:LEU:HD21	14:f2:13:ALA:H	1.15	1.08
14:d3:99:GLU:OE2	14:d3:102:GLY:HA2	1.50	1.08
14:g6:209:ILE:CG1	14:j4:27:PHE:HE2	1.65	1.08
14:e8:321:ASN:HB3	14:h7:437:ASN:ND2	1.68	1.08
14:f4:260:LYS:HE2	14:f4:421:TYR:CZ	1.87	1.08
14:j9:306:TYR:HE2	14:j9:346:VAL:HG12	0.97	1.08
14:l0:260:LYS:HG3	14:l0:421:TYR:CE1	1.87	1.08
12:c7:136:SER:HB3	14:k1:434:ALA:O	1.53	1.08
14:f5:14:GLN:NE2	14:i3:257:HIS:HA	1.67	1.08
14:f8:67:ILE:HG22	14:f8:208:TYR:CD2	1.88	1.08
15:l4:77:PHE:CD2	15:l4:90:CYS:SG	2.45	1.08
11:c5:26:LEU:HD11	14:h8:373:ARG:CZ	1.83	1.08
10:b6:190:VAL:HG13	14:g3:430:MET:HE1	1.14	1.08
11:c2:7:ASP:HB2	14:k0:169:GLN:CG	1.83	1.08
12:c8:152:ALA:HB2	14:e5:430:MET:SD	1.92	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g5:60:ILE:HG23	14:g5:208:TYR:OH	1.54	1.08
14:g8:260:LYS:HE2	14:g8:421:TYR:OH	1.53	1.08
14:h4:209:ILE:CG2	14:k2:27:PHE:CZ	2.35	1.08
14:h6:260:LYS:HE3	14:h6:360:PRO:HA	1.08	1.08
14:i0:209:ILE:HG13	14:k8:27:PHE:HE1	1.17	1.08
14:j0:100:ILE:CD1	14:j0:105:ILE:HD11	1.83	1.08
14:f2:260:LYS:HE3	14:f2:360:PRO:CA	1.82	1.07
14:j8:67:ILE:CG2	14:j8:208:TYR:CD2	2.36	1.07
14:d3:260:LYS:HE3	14:d3:360:PRO:HA	1.11	1.07
14:f1:27:PHE:HE1	14:k7:209:ILE:HG13	1.17	1.07
14:h8:211:LEU:HD22	14:h8:215:GLU:CD	1.79	1.07
8:a8:131:ALA:HB1	8:a8:136:PHE:CE1	1.88	1.07
14:e5:27:PHE:CE2	14:k1:209:ILE:CG2	2.38	1.07
14:f5:14:GLN:HE21	14:i3:258:PRO:HD3	1.09	1.07
14:i4:260:LYS:CE	14:i4:360:PRO:HA	1.83	1.07
14:j6:260:LYS:HE3	14:j6:360:PRO:HA	1.08	1.07
14:f8:60:ILE:HG12	14:f8:173:VAL:CG1	1.84	1.07
14:h7:114:ARG:NH2	14:h7:117:ASP:HB3	1.69	1.07
14:i6:60:ILE:HG12	14:i6:173:VAL:CG1	1.84	1.07
14:k1:260:LYS:HZ2	14:k1:357:ALA:HB1	1.02	1.07
14:l1:114:ARG:NH2	14:l1:117:ASP:HB3	1.67	1.07
14:f3:14:GLN:HE22	14:i1:257:HIS:HA	0.95	1.07
14:e0:209:ILE:HG12	14:g8:27:PHE:CE1	1.90	1.06
14:f7:60:ILE:HG23	14:f7:208:TYR:OH	1.55	1.06
2:a1:154:LEU:HD22	3:a2:206:MET:HB3	1.26	1.06
12:c7:49:ALA:CB	14:i3:220:ALA:HB2	1.85	1.06
12:c7:129:ARG:HD2	14:k1:256:ASN:OD1	1.54	1.06
14:h5:60:ILE:HD11	14:h5:165:LEU:HD21	1.36	1.06
14:i8:5:LEU:O	14:i8:8:LEU:HG	1.55	1.06
14:j8:67:ILE:HG21	14:j8:208:TYR:CE2	1.90	1.06
11:c3:22:THR:HG22	11:c3:23:LEU:H	0.95	1.06
12:c8:85:PHE:CE2	14:i2:375:ASP:HB2	1.90	1.06
14:d2:211:LEU:HD22	14:d2:215:GLU:CD	1.80	1.06
14:e4:260:LYS:HE3	14:e4:360:PRO:HA	1.22	1.06
14:f9:99:GLU:OE1	14:f9:102:GLY:HA2	1.54	1.06
14:k5:100:ILE:HD12	14:k5:105:ILE:HD13	1.37	1.06
2:a1:115:ASN:ND2	14:d2:430:MET:HE3	1.68	1.06
9:b1:178:ARG:HH11	14:j0:216:ARG:HD3	1.19	1.06
9:b3:155:LEU:HD13	14:e2:216:ARG:CD	1.85	1.06
14:d8:17:TYR:CD2	14:g6:227:LEU:HD13	1.91	1.06
14:e2:60:ILE:HG23	14:e2:208:TYR:OH	1.56	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e7:67:ILE:CG2	14:e7:208:TYR:CD2	2.39	1.06
14:j3:281:ILE:CG1	14:j3:284:ALA:HB2	1.85	1.06
14:k5:100:ILE:HB	14:k5:105:ILE:HD11	1.33	1.06
5:a5:176:ASN:ND2	14:g3:428:SER:H	1.52	1.06
11:c3:15:ASP:CB	14:h2:5:LEU:HD22	1.84	1.06
14:e2:260:LYS:HE2	14:e2:360:PRO:HA	1.11	1.06
14:f6:211:LEU:HD22	14:f6:215:GLU:CD	1.79	1.06
14:h6:260:LYS:CE	14:h6:360:PRO:HA	1.83	1.06
14:i4:114:ARG:NH2	14:i4:117:ASP:HB3	1.70	1.06
14:j5:211:LEU:HB2	14:j5:216:ARG:HG2	1.37	1.05
12:c6:59:SER:CB	14:f5:169:GLN:CD	2.28	1.05
14:d4:260:LYS:HE3	14:d4:360:PRO:HA	1.06	1.05
14:i0:209:ILE:CG2	14:k8:27:PHE:CE1	2.39	1.05
14:j9:306:TYR:CE2	14:j9:346:VAL:CG1	2.37	1.05
9:a9:161:ILE:HD11	14:h7:2:ALA:N	1.69	1.05
9:a9:165:THR:HG21	14:f7:14:GLN:OE1	1.56	1.05
12:c8:85:PHE:CE2	14:i2:375:ASP:CA	2.39	1.05
14:f8:60:ILE:HG12	14:f8:173:VAL:HG13	1.09	1.05
14:h4:209:ILE:HD13	14:k2:27:PHE:CD1	1.92	1.05
14:l0:260:LYS:HD3	14:l0:421:TYR:OH	1.55	1.05
3:a3:286:LEU:HD23	14:f9:22:PRO:HG3	1.27	1.05
8:a8:131:ALA:HB3	8:a8:136:PHE:HZ	1.22	1.05
12:c7:59:SER:CB	14:f4:169:GLN:HG2	1.87	1.05
14:f8:96:VAL:HG22	14:f8:177:PHE:CD1	1.91	1.05
14:i6:60:ILE:CD1	14:i6:165:LEU:CD2	2.35	1.05
12:c7:85:PHE:HE2	14:i3:375:ASP:CB	1.70	1.05
14:f3:14:GLN:NE2	14:i1:257:HIS:HA	1.72	1.05
14:h0:60:ILE:HG23	14:h0:208:TYR:OH	1.57	1.05
14:d2:99:GLU:OE2	14:d2:102:GLY:HA2	1.57	1.04
14:e4:260:LYS:NZ	14:e4:357:ALA:HB1	1.70	1.04
14:g1:60:ILE:CD1	14:g1:165:LEU:HD21	1.87	1.04
14:g6:209:ILE:CG2	14:j4:27:PHE:CE2	2.41	1.04
4:a4:108:PHE:HE2	4:a4:132:LYS:CB	1.69	1.04
14:d0:27:PHE:CE1	14:i6:209:ILE:HD13	1.91	1.04
14:i4:260:LYS:HE3	14:i4:360:PRO:CA	1.87	1.04
14:k8:260:LYS:CG	14:k8:421:TYR:CE2	2.40	1.04
2:a1:117:THR:HG21	14:d2:429:GLY:HA3	1.07	1.04
12:c6:119:PHE:HE2	14:f0:436:ALA:HB2	1.20	1.04
14:f1:373:ARG:HE	14:k7:12:GLY:HA3	1.23	1.04
14:f5:14:GLN:HE22	14:i3:257:HIS:HA	0.90	1.04
14:j8:67:ILE:HG22	14:j8:208:TYR:CD2	1.92	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c5:14:SER:HB3	14:h8:103:GLN:HB3	1.35	1.03
12:c8:85:PHE:CE2	14:i2:375:ASP:HA	1.91	1.03
14:j0:105:ILE:HA	14:j0:433:LEU:HD11	1.40	1.03
5:a5:62:THR:HB	14:g3:427:MET:CE	1.88	1.03
12:c8:90:THR:CG2	14:f4:9:VAL:HG21	1.87	1.03
14:f1:27:PHE:CZ	14:k7:209:ILE:CG2	2.40	1.03
3:a3:286:LEU:HD23	14:f9:22:PRO:CD	1.89	1.03
14:f3:260:LYS:CG	14:f3:421:TYR:CE1	2.41	1.03
14:g3:209:ILE:HG21	14:j1:27:PHE:CZ	1.94	1.03
14:g6:99:GLU:OE2	14:g6:102:GLY:HA2	1.57	1.03
14:h4:209:ILE:CD1	14:k2:27:PHE:CE1	2.39	1.03
14:k3:260:LYS:HE3	14:k3:360:PRO:HA	1.04	1.03
14:g4:99:GLU:OE2	14:g4:102:GLY:HA2	1.57	1.03
14:k5:211:LEU:HD22	14:k5:215:GLU:OE2	1.57	1.03
10:b6:302:ASN:OD1	14:e9:425:ARG:HD2	1.56	1.03
14:f6:329:ARG:CZ	14:f6:333:TYR:CE2	2.42	1.03
10:b6:243:THR:HG21	14:j3:170:TYR:C	1.83	1.02
10:b6:262:ALA:CB	14:h5:321:ASN:ND2	2.22	1.02
14:e8:252:ARG:HD3	14:h7:252:ARG:HG2	1.37	1.02
14:l3:260:LYS:HD3	14:l3:421:TYR:CZ	1.94	1.02
9:b4:163:VAL:HG23	15:l4:39:TYR:CD2	1.93	1.02
10:b6:306:ILE:HD11	14:k6:65:ASP:OD1	1.59	1.02
10:b6:314:LEU:HD23	14:i5:62:ARG:HB3	1.06	1.02
14:d4:20:GLY:O	14:j0:33:ARG:HD3	1.56	1.02
14:f5:14:GLN:NE2	14:i3:258:PRO:HD3	1.74	1.02
14:g2:211:LEU:HD22	14:g2:215:GLU:CD	1.84	1.02
14:j0:105:ILE:CG1	14:j0:433:LEU:HD21	1.88	1.02
9:b3:155:LEU:CD1	14:e2:216:ARG:HD3	1.88	1.02
12:c6:108:ASN:ND2	14:f0:428:SER:HB3	1.74	1.02
14:e3:257:HIS:HB3	14:e3:258:PRO:HD2	1.41	1.02
14:i5:252:ARG:CD	14:k5:252:ARG:CD	2.26	1.02
14:l3:60:ILE:HG23	14:l3:208:TYR:OH	1.58	1.02
5:a5:143:MET:HE1	14:g3:170:TYR:CG	1.94	1.02
14:d3:260:LYS:CE	14:d3:360:PRO:HA	1.89	1.02
14:d9:17:TYR:CE2	14:g7:227:LEU:CD1	2.42	1.02
14:e5:27:PHE:CD2	14:k1:66:LEU:HD12	1.93	1.02
14:h5:60:ILE:CD1	14:h5:165:LEU:HD21	1.88	1.02
14:i2:260:LYS:HD3	14:i2:360:PRO:HA	1.39	1.02
14:k9:65:ASP:HA	14:k9:166:ILE:HG23	1.38	1.02
2:a1:154:LEU:CD2	3:a2:206:MET:HB3	1.88	1.02
9:b8:154:PHE:O	14:g1:430:MET:HE1	1.58	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c3:22:THR:HG22	11:c3:23:LEU:N	1.71	1.02
14:f3:211:LEU:HD22	14:f3:215:GLU:CD	1.85	1.02
14:h6:260:LYS:HE3	14:h6:360:PRO:CA	1.90	1.02
14:j0:105:ILE:HG12	14:j0:433:LEU:HD21	1.02	1.02
9:b4:160:TRP:CE2	14:d9:427:MET:HB3	1.95	1.01
10:b6:252:GLN:HE21	14:j3:103:GLN:CD	1.68	1.01
14:l3:99:GLU:OE1	14:l3:102:GLY:HA2	1.58	1.01
14:d0:72:VAL:CG1	14:d0:74:PHE:CZ	2.41	1.01
14:f0:60:ILE:CD1	14:f0:173:VAL:HB	1.91	1.01
14:g1:260:LYS:HE3	14:g1:360:PRO:HA	1.05	1.01
14:g9:60:ILE:HD11	14:g9:173:VAL:HB	1.43	1.01
14:h1:114:ARG:NH2	14:h1:117:ASP:HB3	1.74	1.01
9:b3:192:MET:HE3	14:j8:103:GLN:HE22	1.22	1.01
14:d8:17:TYR:HE2	14:g6:227:LEU:HB2	1.22	1.01
14:i1:260:LYS:CG	14:i1:421:TYR:CE1	2.42	1.01
14:i7:65:ASP:OD2	14:i7:216:ARG:HG2	1.60	1.01
11:c2:7:ASP:HB2	14:k0:169:GLN:HG2	1.01	1.01
11:c3:22:THR:CG2	11:c3:23:LEU:H	1.71	1.01
14:f6:257:HIS:HA	14:l2:14:GLN:HE22	1.22	1.01
14:g2:223:PRO:HD3	9:l5:152:GLN:HG3	1.43	1.01
14:i4:260:LYS:HE3	14:i4:360:PRO:HA	1.04	1.01
14:k5:105:ILE:HG12	14:k5:433:LEU:HD21	1.41	1.01
14:l3:260:LYS:CG	14:l3:421:TYR:CE1	2.42	1.01
14:d0:27:PHE:CE1	14:i6:209:ILE:CG2	2.42	1.01
14:f3:260:LYS:HG3	14:f3:421:TYR:CE1	1.96	1.01
14:h5:67:ILE:CG2	14:h5:208:TYR:CD2	2.44	1.01
14:h7:107:LYS:HE2	14:h7:109:TYR:CE1	1.94	1.01
14:l1:260:LYS:HD3	14:l1:421:TYR:OH	1.61	1.01
12:c6:137:PHE:CE1	14:k6:9:VAL:HG21	1.96	1.00
14:d0:72:VAL:HG12	14:d0:74:PHE:CE2	1.95	1.00
14:e4:27:PHE:CE2	14:k0:209:ILE:HG21	1.95	1.00
9:b5:183:ILE:CB	14:g7:170:TYR:HE1	1.73	1.00
12:c7:43:THR:HA	14:f4:170:TYR:OH	1.59	1.00
12:c7:119:PHE:HE2	14:f1:436:ALA:HB2	1.25	1.00
14:j8:329:ARG:NH1	14:j8:333:TYR:CE2	2.30	1.00
14:j0:60:ILE:HG23	14:j0:208:TYR:OH	1.60	1.00
10:b6:270:ARG:NH1	14:e7:5:LEU:HD13	1.74	1.00
14:j0:100:ILE:CG1	14:j0:105:ILE:HD11	1.91	1.00
14:g4:105:ILE:HD12	14:g4:433:LEU:HD21	1.43	1.00
2:a1:169:THR:HG22	14:i6:221:GLN:NE2	1.77	0.99
14:l3:329:ARG:NH1	14:l3:333:TYR:CE1	2.30	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j8:103:GLN:HE22	14:j8:433:LEU:HB2	1.23	0.99
14:e4:209:ILE:HG21	14:h2:27:PHE:CE1	1.95	0.99
14:f9:260:LYS:HD3	14:f9:421:TYR:OH	1.61	0.99
14:i3:114:ARG:NH2	14:i3:117:ASP:HB3	1.77	0.99
11:c2:7:ASP:CB	14:k0:169:GLN:HG2	1.92	0.99
14:h3:60:ILE:CD1	14:h3:165:LEU:HD21	1.93	0.99
9:b1:178:ARG:HH21	14:j0:210:PHE:HB3	1.26	0.99
12:c6:137:PHE:HE1	14:k6:9:VAL:HG21	1.26	0.99
12:c8:88:VAL:CG2	14:f4:9:VAL:HG13	1.92	0.99
14:g4:306:TYR:HE1	14:g4:346:VAL:HG12	0.86	0.99
14:i9:260:LYS:CE	14:i9:360:PRO:HA	1.92	0.99
14:j0:99:GLU:OE2	14:j0:102:GLY:HA2	1.62	0.99
14:d6:114:ARG:HH21	14:d6:117:ASP:HB3	1.22	0.99
14:e7:329:ARG:NH1	14:e7:333:TYR:CE2	2.30	0.99
14:f2:114:ARG:NH2	14:f2:117:ASP:HB3	1.76	0.99
14:h5:67:ILE:HG22	14:h5:208:TYR:CD2	1.98	0.99
14:i3:211:LEU:HD22	14:i3:215:GLU:CD	1.88	0.99
14:d2:27:PHE:CE1	14:i8:209:ILE:CG2	2.44	0.99
14:g9:158:THR:HB	14:g9:363:ARG:CZ	1.93	0.99
12:c6:99:LEU:HA	14:k7:170:TYR:HD1	1.27	0.99
14:d3:260:LYS:HE3	14:d3:360:PRO:CA	1.93	0.99
9:a9:166:GLN:HE22	14:i5:256:ASN:HD21	1.08	0.99
14:d0:72:VAL:CG1	14:d0:74:PHE:CE2	2.45	0.99
14:j9:260:LYS:CE	14:j9:360:PRO:HA	1.93	0.99
14:f8:60:ILE:CG1	14:f8:173:VAL:HG13	1.92	0.98
14:i2:260:LYS:HE2	14:i2:421:TYR:OH	1.62	0.98
9:b3:155:LEU:HD13	14:e2:216:ARG:HD3	1.03	0.98
9:b8:170:LEU:HB2	14:j0:375:ASP:OD1	1.63	0.98
10:b6:233:LEU:HD21	14:d7:10:ALA:HA	1.46	0.98
9:c1:193:MET:HE2	14:e8:435:TYR:CE2	1.97	0.98
14:d9:17:TYR:HE2	14:g7:227:LEU:CD1	1.76	0.98
14:h4:260:LYS:HD3	14:h4:421:TYR:OH	1.64	0.98
14:l3:260:LYS:HG3	14:l3:421:TYR:CE1	1.97	0.98
14:f8:96:VAL:HG22	14:f8:177:PHE:HD1	1.24	0.98
14:h6:67:ILE:HG22	14:h6:208:TYR:CD2	1.98	0.98
10:b6:243:THR:HG22	14:j3:170:TYR:HA	1.45	0.98
14:f3:14:GLN:NE2	14:i1:258:PRO:HD3	1.78	0.98
9:b1:160:TRP:CH2	14:j3:21:ASN:HB2	1.98	0.98
14:e4:27:PHE:CZ	14:k0:209:ILE:CG2	2.46	0.98
14:e6:61:SER:CB	14:e6:63:ASN:ND2	2.22	0.98
14:g1:260:LYS:CE	14:g1:360:PRO:HA	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c6:42:PRO:HD2	14:f5:170:TYR:CE1	1.99	0.98
14:f6:258:PRO:HD3	14:l2:14:GLN:HE21	1.29	0.98
10:b6:243:THR:HG21	14:j3:171:HIS:N	1.78	0.98
9:c0:165:THR:CG2	14:k4:435:TYR:CD1	2.47	0.97
14:d9:223:PRO:HB3	14:d9:427:MET:CE	1.94	0.97
14:k8:260:LYS:HD3	14:k8:421:TYR:CZ	1.99	0.97
12:c6:58:LEU:CD1	14:f6:430:MET:SD	2.52	0.97
14:g6:260:LYS:HE3	14:g6:360:PRO:HA	1.02	0.97
9:b4:170:LEU:HD22	14:d9:373:ARG:HA	1.45	0.97
14:j9:260:LYS:HE3	14:j9:360:PRO:HA	0.99	0.97
12:c7:112:SER:HB2	14:f1:430:MET:SD	2.05	0.97
14:j6:260:LYS:HE3	14:j6:360:PRO:C	1.90	0.97
14:l3:329:ARG:CZ	14:l3:333:TYR:CE1	2.47	0.97
11:c4:10:SER:C	14:e6:62:ARG:NH2	2.22	0.97
14:f0:114:ARG:HH21	14:f0:117:ASP:HB3	1.21	0.97
14:f1:27:PHE:CE1	14:k7:209:ILE:HG13	1.99	0.97
14:f8:67:ILE:CG2	14:f8:208:TYR:CD2	2.48	0.97
14:i0:209:ILE:CG1	14:k8:27:PHE:HE1	1.77	0.97
14:j0:100:ILE:HG13	14:j0:105:ILE:HD12	1.47	0.97
14:k8:211:LEU:HD22	14:k8:215:GLU:CD	1.87	0.97
9:b4:160:TRP:CZ2	14:d9:427:MET:CB	2.48	0.97
14:k8:260:LYS:HG3	14:k8:421:TYR:CE2	1.99	0.97
14:k9:260:LYS:HG3	14:k9:421:TYR:CE1	1.99	0.97
10:b6:190:VAL:CG1	14:g3:430:MET:CE	2.35	0.97
10:b6:337:ILE:HD11	14:l2:64:GLY:HA2	1.43	0.97
14:f1:60:ILE:HG23	14:f1:208:TYR:OH	1.63	0.97
14:i1:260:LYS:HG3	14:i1:421:TYR:CE1	1.99	0.97
14:i8:99:GLU:OE2	14:i8:102:GLY:HA2	1.63	0.97
14:l0:260:LYS:CG	14:l0:421:TYR:CE1	2.47	0.97
14:i7:99:GLU:OE2	14:i7:102:GLY:HA2	1.65	0.97
12:c7:85:PHE:HE2	14:i3:375:ASP:HA	1.29	0.97
14:f6:62:ARG:NH2	14:f6:172:GLU:HA	1.79	0.97
10:b6:243:THR:HG22	14:j3:170:TYR:C	1.90	0.96
14:f3:260:LYS:HG3	14:f3:421:TYR:HE1	1.28	0.96
14:h1:114:ARG:HH21	14:h1:117:ASP:HB3	1.30	0.96
9:b1:201:TYR:O	14:j3:11:TYR:HB3	1.65	0.96
14:e0:209:ILE:HG21	14:g8:27:PHE:CE1	1.99	0.96
14:e6:61:SER:HB2	14:e6:63:ASN:HD21	0.82	0.96
14:i9:260:LYS:HE3	14:i9:360:PRO:CA	1.94	0.96
14:k9:260:LYS:HG3	14:k9:421:TYR:HE1	1.28	0.96
13:c9:129:TYR:CD2	9:l5:149:LEU:HD22	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d6:121:ARG:CZ	14:d6:129:TYR:CE1	2.49	0.96
14:e4:209:ILE:HD13	14:h2:27:PHE:CD1	1.99	0.96
14:f1:27:PHE:CE1	14:k7:209:ILE:CG2	2.48	0.96
14:f6:329:ARG:NH1	14:f6:333:TYR:CE2	2.33	0.96
14:i7:329:ARG:CZ	14:i7:333:TYR:CE2	2.48	0.96
14:k5:67:ILE:HG22	14:k5:208:TYR:CD1	1.99	0.96
9:b0:148:ASN:HB2	14:l2:170:TYR:CE1	1.99	0.96
14:i1:158:THR:HG21	14:i1:363:ARG:CD	1.95	0.96
14:j0:101:GLY:HA3	14:j0:171:HIS:CE1	2.00	0.96
9:b4:170:LEU:CD2	14:d9:373:ARG:HA	1.94	0.96
9:b5:191:TRP:CZ3	9:b7:188:VAL:HG12	2.01	0.96
14:d1:209:ILE:CD1	14:f9:27:PHE:CE1	2.47	0.96
14:e7:67:ILE:CG2	14:e7:208:TYR:CE2	2.48	0.96
14:h6:260:LYS:HD2	14:h6:357:ALA:HB2	1.47	0.96
14:j0:100:ILE:CG1	14:j0:105:ILE:CD1	2.44	0.96
14:i1:260:LYS:HD3	14:i1:421:TYR:CZ	2.01	0.96
14:j0:101:GLY:CA	14:j0:171:HIS:HD1	1.79	0.96
2:a1:154:LEU:CD1	3:a2:284:TYR:CZ	2.49	0.96
9:b4:162:GLY:HA2	14:j6:216:ARG:HH12	1.28	0.96
14:h5:329:ARG:CZ	14:h5:333:TYR:CE2	2.49	0.96
3:a3:286:LEU:CD2	14:f9:22:PRO:CG	2.38	0.95
9:c1:192:MET:HB3	14:e8:436:ALA:HB2	1.46	0.95
14:h7:211:LEU:HD22	14:h7:215:GLU:CD	1.91	0.95
3:a3:247:VAL:CG1	14:d1:30:VAL:HG11	1.96	0.95
10:b6:318:TYR:CD2	14:l3:5:LEU:CD2	2.49	0.95
11:c5:26:LEU:HD11	14:h8:373:ARG:NE	1.82	0.95
14:i0:209:ILE:HG13	14:k8:27:PHE:CE1	2.01	0.95
12:c6:112:SER:HB2	14:f0:430:MET:HE1	1.45	0.95
14:e6:211:LEU:HD22	14:e6:215:GLU:CD	1.90	0.95
14:g6:260:LYS:CE	14:g6:360:PRO:HA	1.94	0.95
14:h4:215:GLU:CB	14:h4:218:ARG:NH2	2.30	0.95
14:j8:67:ILE:CG2	14:j8:208:TYR:CE2	2.50	0.95
3:a3:218:PRO:HG2	14:d1:214:GLN:HG3	1.48	0.95
9:b1:154:PHE:CZ	14:d7:223:PRO:HB2	2.02	0.95
14:e7:67:ILE:HG21	14:e7:208:TYR:CE2	2.02	0.95
12:c7:117:ARG:NH1	14:f2:5:LEU:HD21	1.81	0.94
14:f6:211:LEU:HD13	14:f6:215:GLU:HG2	1.49	0.94
14:g1:60:ILE:HD11	14:g1:165:LEU:HD21	1.49	0.94
14:j0:100:ILE:HG13	14:j0:105:ILE:CD1	1.97	0.94
14:k8:99:GLU:OE2	14:k8:102:GLY:HA2	1.67	0.94
3:a3:246:LEU:HD23	14:i7:32:ARG:CZ	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d7:121:ARG:CZ	14:d7:129:TYR:CE1	2.51	0.94
14:e3:256:ASN:OD1	14:e3:257:HIS:HD2	1.47	0.94
14:h5:67:ILE:HG21	14:h5:208:TYR:CE2	2.03	0.94
9:b1:154:PHE:HZ	14:d7:223:PRO:HB2	1.31	0.94
14:d4:260:LYS:HE3	14:d4:360:PRO:C	1.91	0.94
14:d9:17:TYR:HE2	14:g7:227:LEU:HD13	1.12	0.94
5:a5:143:MET:HE3	14:g3:170:TYR:CZ	2.02	0.94
14:d1:308:GLU:OE2	14:d1:336:LYS:HE3	1.66	0.94
14:h1:60:ILE:HG23	14:h1:208:TYR:OH	1.65	0.94
14:j6:329:ARG:NH1	14:j6:333:TYR:CE2	2.34	0.94
3:a3:236:LEU:CD1	14:i7:23:GLN:C	2.40	0.94
14:e4:260:LYS:HD2	14:e4:357:ALA:HB2	1.47	0.94
14:f4:260:LYS:HE2	14:f4:421:TYR:OH	1.67	0.94
14:i7:329:ARG:NH1	14:i7:333:TYR:CE2	2.35	0.94
14:j1:430:MET:SD	9:l5:191:TRP:CE3	2.61	0.94
14:k5:100:ILE:CG1	14:k5:105:ILE:HD12	1.98	0.94
10:b6:283:SER:HB2	14:k3:101:GLY:O	1.68	0.94
10:b6:265:LEU:CD2	14:e7:5:LEU:HD11	1.97	0.94
14:d6:260:LYS:HE3	14:d6:360:PRO:C	1.92	0.94
14:d9:223:PRO:CB	14:d9:427:MET:HE2	1.98	0.94
12:c8:85:PHE:CD2	14:i2:375:ASP:CB	2.48	0.94
14:f1:27:PHE:HE1	14:k7:209:ILE:CG1	1.81	0.94
14:f6:308:GLU:OE2	14:f6:332:SER:HB3	1.68	0.94
14:i8:260:LYS:HD2	14:i8:357:ALA:HB2	1.49	0.94
14:i9:260:LYS:NZ	14:i9:357:ALA:HB1	1.81	0.94
14:j7:114:ARG:HH21	14:j7:117:ASP:HB3	1.24	0.94
14:l2:211:LEU:HD22	14:l2:215:GLU:CD	1.93	0.94
12:c6:59:SER:HB3	14:f5:169:GLN:NE2	1.82	0.94
12:c7:79:ARG:HA	14:l0:375:ASP:OD1	1.68	0.94
14:j5:72:VAL:HG11	14:j5:74:PHE:CZ	2.01	0.94
6:a6:4:THR:HB	6:a6:39:TRP:CZ3	2.03	0.94
10:b6:318:TYR:CE2	14:l3:5:LEU:HD23	2.01	0.94
12:c8:89:ASN:ND2	14:f3:435:TYR:HD1	1.65	0.94
13:c9:150:ARG:HD2	14:d1:5:LEU:CD2	1.98	0.94
14:f7:17:TYR:HE2	14:i5:435:TYR:OH	1.49	0.94
14:i4:114:ARG:HH21	14:i4:117:ASP:HB3	1.26	0.93
14:i6:60:ILE:CG1	14:i6:173:VAL:HG13	1.97	0.93
14:d4:21:ASN:O	14:j0:33:ARG:HD2	1.66	0.93
14:e7:329:ARG:CZ	14:e7:333:TYR:CE2	2.51	0.93
14:j8:103:GLN:NE2	14:j8:433:LEU:HB2	1.82	0.93
14:k9:329:ARG:NH1	14:k9:333:TYR:CE2	2.37	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a2:284:TYR:HH	14:d1:170:TYR:HE1	1.15	0.93
14:d4:260:LYS:CE	14:d4:360:PRO:HA	1.98	0.93
14:j6:60:ILE:HG23	14:j6:208:TYR:OH	1.67	0.93
9:b1:154:PHE:HD1	14:d7:225:GLU:CD	1.76	0.93
10:b6:301:LYS:HA	14:e9:434:ALA:O	1.68	0.93
14:h7:114:ARG:HH21	14:h7:117:ASP:HB3	1.33	0.93
14:e4:27:PHE:CE2	14:k0:209:ILE:HG12	2.02	0.93
14:f3:260:LYS:HD3	14:f3:421:TYR:CZ	2.03	0.93
14:h2:11:TYR:CE1	14:h2:15:ASP:CB	2.51	0.93
14:k4:329:ARG:NH1	14:k4:333:TYR:CE2	2.37	0.93
12:c7:109:MET:HE2	14:k8:220:ALA:HB2	1.47	0.93
12:c8:89:ASN:HD21	14:f3:435:TYR:HD1	0.96	0.93
14:e9:67:ILE:HG22	14:e9:208:TYR:CD2	2.04	0.93
14:h2:11:TYR:CE1	14:h2:15:ASP:HB3	2.04	0.93
3:a3:286:LEU:HD22	14:f9:22:PRO:HG3	1.51	0.93
12:c6:112:SER:CB	14:f0:430:MET:HE1	1.98	0.93
12:c8:95:THR:HG22	14:l0:65:ASP:OD1	1.67	0.93
14:h5:329:ARG:NH1	14:h5:333:TYR:CE2	2.36	0.93
14:k9:65:ASP:HA	14:k9:166:ILE:CG2	1.99	0.93
9:b5:191:TRP:HE1	14:i9:431:GLY:HA2	1.32	0.92
14:k3:329:ARG:CZ	14:k3:333:TYR:CE2	2.52	0.92
14:k6:252:ARG:NH1	14:k6:253:LEU:O	2.02	0.92
10:b6:193:THR:HG22	14:g3:425:ARG:HD2	1.51	0.92
13:c9:13:PHE:CZ	9:l5:152:GLN:NE2	2.37	0.92
14:j8:329:ARG:CZ	14:j8:333:TYR:CE2	2.51	0.92
12:c8:85:PHE:HD2	14:i2:375:ASP:HB2	1.29	0.92
14:f7:121:ARG:CZ	14:f7:129:TYR:CE1	2.53	0.92
14:h0:121:ARG:CZ	14:h0:129:TYR:CE1	2.52	0.92
2:a1:147:ASN:HB2	3:a2:201:GLY:C	1.94	0.92
11:c5:14:SER:CB	14:h8:103:GLN:HB3	1.98	0.92
12:c7:85:PHE:CE2	14:i3:375:ASP:HA	2.01	0.92
14:d8:27:PHE:CE1	14:j4:209:ILE:HG21	2.04	0.92
14:d9:223:PRO:HG3	14:d9:427:MET:HE2	1.51	0.92
14:f2:60:ILE:CD1	14:f2:165:LEU:HD21	1.99	0.92
14:f6:62:ARG:NH1	14:f6:165:LEU:HD11	1.83	0.92
14:f7:260:LYS:NZ	14:f7:357:ALA:HB1	1.82	0.92
14:i1:158:THR:HB	14:i1:363:ARG:NH1	1.84	0.92
14:l3:260:LYS:HG3	14:l3:421:TYR:HE1	1.29	0.92
9:b1:178:ARG:NH2	14:j0:210:PHE:HA	1.84	0.92
12:c6:41:GLN:CB	14:f5:170:TYR:CE2	2.52	0.92
14:e3:257:HIS:HB3	14:e3:258:PRO:CD	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c8:90:THR:CG2	14:f4:9:VAL:CG2	2.48	0.92
14:e2:260:LYS:CE	14:e2:360:PRO:HA	1.99	0.92
14:k8:329:ARG:NH1	14:k8:333:TYR:CE2	2.38	0.92
5:a5:62:THR:CG2	14:g3:425:ARG:CD	2.48	0.92
9:b1:178:ARG:NH2	14:j0:210:PHE:HB3	1.82	0.92
14:d8:17:TYR:HE2	14:g6:227:LEU:CB	1.82	0.92
14:g5:60:ILE:HG23	14:g5:208:TYR:HH	1.28	0.92
9:b1:193:MET:HA	14:j0:430:MET:CE	2.00	0.92
9:b3:166:GLN:NE2	14:g9:372:SER:HA	1.84	0.92
12:c8:106:VAL:CB	14:f3:169:GLN:HE22	1.83	0.92
14:f8:175:LEU:HD13	14:f8:177:PHE:HZ	1.35	0.92
14:f2:114:ARG:HH21	14:f2:117:ASP:HB3	1.27	0.92
14:k5:100:ILE:CD1	14:k5:105:ILE:CD1	2.47	0.92
14:k9:260:LYS:CG	14:k9:421:TYR:CE1	2.52	0.92
14:d9:223:PRO:CB	14:d9:427:MET:CE	2.47	0.91
14:j8:211:LEU:HD13	14:j8:215:GLU:HG2	1.52	0.91
11:c3:22:THR:HG21	14:k0:375:ASP:OD1	1.71	0.91
14:e1:67:ILE:HG22	14:e1:208:TYR:CD1	2.05	0.91
14:j2:114:ARG:NH2	14:j2:117:ASP:HB3	1.85	0.91
14:k5:60:ILE:HD11	14:k5:165:LEU:HD21	1.52	0.91
12:c7:119:PHE:CE2	14:f1:436:ALA:HB2	2.06	0.91
14:f5:14:GLN:HE22	14:i3:257:HIS:CA	1.82	0.91
14:k3:260:LYS:CE	14:k3:360:PRO:HA	1.98	0.91
14:k4:329:ARG:CZ	14:k4:333:TYR:CE2	2.54	0.91
3:a3:224:ASN:HD22	14:f9:30:VAL:HB	0.75	0.91
4:a4:144:TRP:HA	4:a4:154:TRP:CD1	2.05	0.91
10:b6:317:ARG:HD3	14:l3:5:LEU:CD1	1.99	0.91
14:f9:114:ARG:HH21	14:f9:117:ASP:HB3	1.35	0.91
14:g2:223:PRO:HG3	9:l5:152:GLN:HA	1.48	0.91
14:j6:260:LYS:CE	14:j6:360:PRO:HA	2.00	0.91
9:b4:175:TYR:OH	14:d9:375:ASP:HB2	1.70	0.91
12:c7:89:ASN:HD21	14:k8:435:TYR:HD1	1.08	0.91
14:h4:209:ILE:CG2	14:k2:27:PHE:CE1	2.49	0.91
14:j9:260:LYS:HE3	14:j9:360:PRO:C	1.96	0.91
14:k2:99:GLU:OE2	14:k2:102:GLY:HA2	1.71	0.91
14:k9:211:LEU:HD22	14:k9:215:GLU:CD	1.96	0.91
9:b1:178:ARG:HH22	14:j0:210:PHE:CA	1.83	0.91
14:h6:211:LEU:HD22	14:h6:215:GLU:CD	1.95	0.91
14:f4:211:LEU:HD22	14:f4:215:GLU:CD	1.96	0.91
14:g6:266:PHE:HZ	14:g6:381:LEU:HD13	1.32	0.91
14:e8:252:ARG:NH1	14:h7:252:ARG:HH11	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f1:373:ARG:HH21	14:k7:13:ALA:H	1.18	0.91
14:j3:281:ILE:CG1	14:j3:284:ALA:HB3	1.97	0.91
9:b4:160:TRP:HZ2	14:d9:427:MET:CB	1.82	0.90
14:g8:260:LYS:HD3	14:g8:360:PRO:CA	1.99	0.90
14:h3:67:ILE:HG22	14:h3:208:TYR:CD2	2.06	0.90
14:i4:260:LYS:HD2	14:i4:357:ALA:HB2	1.52	0.90
14:i3:114:ARG:HH21	14:i3:117:ASP:HB3	1.33	0.90
14:g4:260:LYS:HD3	14:g4:421:TYR:OH	1.71	0.90
14:h1:329:ARG:CZ	14:h1:333:TYR:CE2	2.55	0.90
9:b4:160:TRP:HZ2	14:d9:427:MET:HB3	1.18	0.90
12:c6:51:TRP:HH2	14:i4:5:LEU:HD21	1.36	0.90
14:g5:211:LEU:HD22	14:g5:215:GLU:CD	1.96	0.90
14:i4:260:LYS:HZ1	14:i4:357:ALA:HB1	1.36	0.90
14:j1:266:PHE:HZ	14:j1:381:LEU:HD13	1.36	0.90
14:k3:329:ARG:NH1	14:k3:333:TYR:CE2	2.40	0.90
5:a5:35:PRO:HG2	14:j2:16:VAL:HB	1.51	0.90
11:c3:22:THR:CG2	14:k0:375:ASP:CG	2.44	0.90
11:c5:26:LEU:CD1	14:h8:373:ARG:NE	2.34	0.90
12:c6:129:ARG:NH2	14:f0:376:ASN:HD21	1.70	0.90
14:f7:114:ARG:NH2	14:f7:117:ASP:HB3	1.86	0.90
14:f7:260:LYS:HD2	14:f7:357:ALA:HB2	1.50	0.90
14:j8:211:LEU:HD22	14:j8:215:GLU:OE2	1.70	0.90
11:c2:26:LEU:CD2	14:f2:13:ALA:H	1.84	0.90
14:g7:211:LEU:HD22	14:g7:215:GLU:CD	1.96	0.90
15:l4:82:CYS:SG	15:l4:90:CYS:HB3	2.11	0.90
10:b6:243:THR:HG22	14:j3:170:TYR:CA	2.01	0.90
12:c6:116:LEU:HD12	14:k7:216:ARG:HH22	1.35	0.90
13:c9:42:HIS:CE1	9:l5:178:ARG:O	2.25	0.90
14:e5:211:LEU:HD22	14:e5:215:GLU:CD	1.97	0.90
14:k6:252:ARG:NH1	14:k6:254:ASN:CA	2.32	0.90
14:e4:260:LYS:HZ2	14:e4:357:ALA:HB1	1.34	0.90
14:i8:260:LYS:HZ1	14:i8:357:ALA:HB1	1.28	0.90
14:j0:101:GLY:CA	14:j0:171:HIS:ND1	2.32	0.90
14:f5:14:GLN:HE21	14:i3:258:PRO:CD	1.84	0.90
14:k5:100:ILE:HG13	14:k5:105:ILE:HD12	1.53	0.90
9:b3:166:GLN:HE21	14:g9:372:SER:CA	1.85	0.89
12:c6:140:TYR:HE1	14:h8:213:THR:HG23	1.32	0.89
14:f9:175:LEU:HD13	14:f9:177:PHE:HZ	1.37	0.89
12:c6:119:PHE:CE2	14:f0:436:ALA:HB2	2.06	0.89
12:c8:90:THR:HG23	14:f4:9:VAL:HG21	1.51	0.89
11:c3:15:ASP:CG	14:h2:5:LEU:HD21	1.98	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b5:183:ILE:CB	14:g7:170:TYR:CE1	2.55	0.89
14:d2:27:PHE:CE1	14:i8:209:ILE:CD1	2.54	0.89
14:d4:26:PHE:HE2	14:j0:34:TYR:CB	1.85	0.89
14:g1:67:ILE:HG22	14:g1:208:TYR:CD2	2.06	0.89
14:k8:329:ARG:CZ	14:k8:333:TYR:CE2	2.55	0.89
2:a1:150:LEU:HD22	14:d2:425:ARG:HH12	0.72	0.89
14:f1:260:LYS:HE2	14:f1:421:TYR:OH	1.73	0.89
14:j1:99:GLU:OE2	14:j1:102:GLY:CA	2.20	0.89
14:j3:60:ILE:CD1	14:j3:165:LEU:HD21	2.01	0.89
14:k6:252:ARG:HH12	14:k6:254:ASN:HA	1.16	0.89
14:d2:27:PHE:CZ	14:i8:209:ILE:CG2	2.55	0.89
14:f0:67:ILE:HG22	14:f0:208:TYR:CD2	2.08	0.89
14:f0:121:ARG:CZ	14:f0:129:TYR:CE1	2.56	0.89
14:j7:329:ARG:CZ	14:j7:333:TYR:CE1	2.55	0.89
14:k9:329:ARG:CZ	14:k9:333:TYR:CE2	2.55	0.89
9:b1:178:ARG:HH21	14:j0:210:PHE:CB	1.85	0.89
12:c6:115:LEU:HD11	14:f0:427:MET:HE3	1.52	0.89
12:c7:49:ALA:HB2	14:i3:220:ALA:HB2	0.91	0.89
14:f9:114:ARG:NH2	14:f9:117:ASP:HB3	1.88	0.89
14:h0:329:ARG:NH1	14:h0:333:TYR:CE2	2.41	0.89
14:h5:60:ILE:HD11	14:h5:165:LEU:CD2	2.02	0.89
9:b1:178:ARG:NH2	14:j0:210:PHE:CB	2.35	0.89
14:f1:96:VAL:HG22	14:f1:177:PHE:CD2	2.07	0.89
14:f3:60:ILE:CG2	14:f3:208:TYR:OH	2.21	0.89
14:k3:260:LYS:HE3	14:k3:360:PRO:C	1.98	0.89
14:k8:266:PHE:HZ	14:k8:381:LEU:HD13	1.37	0.89
14:l1:114:ARG:HH21	14:l1:117:ASP:HB3	1.34	0.89
9:b4:162:GLY:CA	14:j6:216:ARG:NH1	2.35	0.89
14:d0:96:VAL:HG22	14:d0:177:PHE:HD2	1.37	0.88
14:h6:67:ILE:CG2	14:h6:208:TYR:CD2	2.56	0.88
5:a5:62:THR:CG2	14:g3:425:ARG:HD3	2.01	0.88
9:b1:178:ARG:NH2	14:j0:210:PHE:CA	2.35	0.88
13:c9:75:PHE:HE1	9:l5:141:PHE:HE1	1.19	0.88
14:d0:175:LEU:HD13	14:d0:177:PHE:HZ	1.36	0.88
14:e0:209:ILE:CG2	14:g8:27:PHE:CZ	2.55	0.88
14:e4:260:LYS:CE	14:e4:360:PRO:HA	2.03	0.88
14:e5:27:PHE:CD2	14:k1:66:LEU:CD1	2.55	0.88
14:k4:121:ARG:CZ	14:k4:129:TYR:CE1	2.56	0.88
10:b6:193:THR:CG2	14:g3:425:ARG:HH11	1.86	0.88
14:f8:35:THR:HB	14:f8:215:GLU:OE2	1.73	0.88
5:a5:62:THR:HB	14:g3:427:MET:SD	2.13	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a5:143:MET:HE3	14:g3:170:TYR:CE2	2.09	0.88
5:a5:151:PHE:CE2	5:a5:153:LEU:HD11	2.08	0.88
9:c0:165:THR:HG23	14:k4:435:TYR:HD1	1.37	0.88
11:c3:9:ALA:HB2	14:e4:170:TYR:CE1	2.09	0.88
12:c7:147:VAL:CG2	14:h9:170:TYR:OH	2.22	0.88
9:b8:160:TRP:HZ3	14:g1:103:GLN:HB2	1.37	0.88
11:c2:67:THR:HG22	14:k0:217:THR:HG22	1.55	0.88
14:f2:60:ILE:HD11	14:f2:173:VAL:HB	1.53	0.88
14:f2:260:LYS:CE	14:f2:360:PRO:HA	2.02	0.88
14:k1:60:ILE:CG2	14:k1:208:TYR:OH	2.20	0.88
3:a2:199:ALA:O	3:a2:285:GLY:HA3	1.74	0.88
11:c2:7:ASP:CG	14:k0:169:GLN:HE21	1.80	0.88
12:c6:79:ARG:NH2	14:l1:437:ASN:ND2	2.20	0.88
14:d3:260:LYS:HD2	14:d3:357:ALA:HB2	1.56	0.88
14:d8:114:ARG:NH2	14:d8:117:ASP:HB3	1.89	0.88
14:h0:329:ARG:CZ	14:h0:333:TYR:CE2	2.55	0.88
14:d1:308:GLU:CD	14:d1:336:LYS:HE3	1.97	0.88
14:d1:346:VAL:CG2	14:f9:131:ARG:HH11	1.85	0.88
5:a5:62:THR:CB	14:g3:427:MET:HE1	2.04	0.88
12:c8:90:THR:HG21	14:f4:9:VAL:HB	1.54	0.88
14:e9:260:LYS:HG3	14:e9:357:ALA:HB2	1.56	0.88
14:j1:260:LYS:HE2	14:j1:421:TYR:OH	1.72	0.88
14:j5:329:ARG:CZ	14:j5:333:TYR:CE2	2.57	0.88
10:b6:198:VAL:HG21	14:d5:13:ALA:HB3	1.54	0.87
10:b6:299:TYR:CE2	14:e9:435:TYR:HD2	1.91	0.87
14:f7:260:LYS:HZ1	14:f7:357:ALA:HB1	1.36	0.87
14:g2:321:ASN:HB3	9:l5:175:TYR:CE1	2.10	0.87
14:k2:14:GLN:O	14:k2:17:TYR:CE1	2.27	0.87
14:d9:223:PRO:HB3	14:d9:427:MET:HE2	1.52	0.87
14:i6:60:ILE:HD11	14:i6:165:LEU:HD13	1.57	0.87
14:i6:121:ARG:CZ	14:i6:129:TYR:CE1	2.56	0.87
14:k1:260:LYS:HE3	14:k1:360:PRO:CA	2.04	0.87
3:a3:271:GLY:O	14:f9:23:GLN:HG3	1.74	0.87
9:b1:154:PHE:HD1	14:d7:225:GLU:OE2	1.57	0.87
14:h6:260:LYS:HZ1	14:h6:357:ALA:HB1	1.36	0.87
14:k0:73:GLU:OE1	14:k0:73:GLU:N	2.08	0.87
5:a5:143:MET:HE1	14:g3:170:TYR:CD2	2.09	0.87
14:j6:329:ARG:CZ	14:j6:333:TYR:CE2	2.57	0.87
5:a5:93:PRO:CG	10:b6:179:ALA:O	2.21	0.87
10:b6:339:PRO:HD2	14:l2:166:ILE:HD12	1.55	0.87
14:f2:260:LYS:HE3	14:f2:360:PRO:C	2.00	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g3:209:ILE:CG2	14:j1:27:PHE:CZ	2.54	0.87
14:h5:33:ARG:HD2	14:k3:20:GLY:O	1.73	0.87
14:h6:260:LYS:HZ2	14:h6:357:ALA:HB1	1.36	0.87
14:i9:329:ARG:NH1	14:i9:333:TYR:CE2	2.43	0.87
14:j8:206:VAL:HB	14:j8:208:TYR:CE1	2.09	0.87
12:c6:137:PHE:CZ	14:k2:436:ALA:HB1	2.10	0.87
14:d9:223:PRO:CG	14:d9:427:MET:HE2	2.04	0.87
4:a4:156:CYS:N	4:a4:157:PRO:HA	1.87	0.87
14:d0:27:PHE:CD1	14:i6:209:ILE:HD13	2.10	0.87
14:h3:67:ILE:CG2	14:h3:208:TYR:CD2	2.57	0.87
14:i6:99:GLU:OE2	14:i6:102:GLY:CA	2.22	0.87
9:b3:164:ASN:HD21	14:h0:9:VAL:CG1	1.87	0.87
12:c6:79:ARG:HH22	14:l1:437:ASN:CG	1.81	0.87
12:c8:85:PHE:HE2	14:i2:375:ASP:HA	1.40	0.87
14:g6:209:ILE:CG1	14:j4:27:PHE:CE2	2.49	0.87
9:c0:162:GLY:HA2	14:k4:433:LEU:O	1.75	0.86
14:d6:114:ARG:NH2	14:d6:117:ASP:CB	2.37	0.86
14:e0:60:ILE:CG2	14:e0:208:TYR:OH	2.23	0.86
14:h4:214:GLN:HB3	14:h4:218:ARG:NH1	1.89	0.86
9:b3:166:GLN:HE21	14:g9:372:SER:HA	1.38	0.86
11:c3:15:ASP:CG	14:h2:5:LEU:CD2	2.47	0.86
14:i1:211:LEU:HD22	14:i1:215:GLU:CD	1.99	0.86
14:j9:306:TYR:CE2	14:j9:346:VAL:HG11	2.10	0.86
14:k9:260:LYS:CD	14:k9:421:TYR:OH	2.24	0.86
9:a9:192:MET:SD	14:k5:103:GLN:NE2	2.48	0.86
14:d1:260:LYS:HD3	14:d1:421:TYR:OH	1.75	0.86
14:i6:60:ILE:CG1	14:i6:173:VAL:CG1	2.50	0.86
14:k4:260:LYS:HD3	14:k4:421:TYR:OH	1.76	0.86
4:a4:242:TRP:HA	4:a4:242:TRP:CE3	2.10	0.86
10:b6:243:THR:CG2	14:j3:170:TYR:CA	2.53	0.86
12:c6:162:THR:HB	14:k3:14:GLN:NE2	1.90	0.86
14:g1:260:LYS:HE3	14:g1:360:PRO:C	1.99	0.86
14:j2:114:ARG:HH21	14:j2:117:ASP:HB3	1.38	0.86
14:k1:260:LYS:CD	14:k1:357:ALA:CB	2.52	0.86
12:c8:104:GLY:HA3	14:f2:430:MET:HE3	1.57	0.86
14:e7:211:LEU:HD22	14:e7:215:GLU:CD	1.99	0.86
14:g3:114:ARG:NH2	14:g3:117:ASP:HB3	1.90	0.86
14:j7:329:ARG:NH1	14:j7:333:TYR:CE1	2.43	0.86
3:a3:247:VAL:HG12	14:d1:30:VAL:HG11	1.57	0.86
9:b5:191:TRP:HE1	14:i9:431:GLY:CA	1.89	0.86
9:b5:198:PRO:CG	14:g7:170:TYR:CE2	2.42	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:312:SER:O	14:i5:62:ARG:HD2	1.76	0.86
9:c1:162:GLY:C	14:h7:436:ALA:HB2	2.01	0.86
12:c6:51:TRP:CH2	14:i4:5:LEU:HD21	2.11	0.86
12:c7:75:THR:CG2	14:i3:435:TYR:CD1	2.58	0.86
14:g8:60:ILE:CG2	14:g8:208:TYR:OH	2.23	0.86
3:a3:236:LEU:HD12	14:i7:23:GLN:O	1.74	0.86
10:b6:345:GLY:HA3	14:l2:170:TYR:O	1.74	0.86
12:c7:115:LEU:HD11	14:f1:427:MET:HG2	1.56	0.86
14:d6:114:ARG:HH21	14:d6:117:ASP:CB	1.88	0.86
14:h1:211:LEU:HD22	14:h1:215:GLU:CD	2.00	0.86
14:j3:60:ILE:HD11	14:j3:165:LEU:HD21	1.57	0.86
5:a5:176:ASN:HD22	14:g3:427:MET:HB2	1.41	0.86
11:c4:17:HIS:NE2	14:h9:431:GLY:CA	2.38	0.86
12:c8:81:SER:CB	14:f3:375:ASP:CB	2.54	0.86
14:d2:27:PHE:CZ	14:i8:209:ILE:HG21	2.10	0.86
3:a3:264:LEU:O	14:i7:218:ARG:HD3	1.76	0.86
12:c7:147:VAL:HG23	14:h9:170:TYR:OH	1.76	0.86
14:g9:14:GLN:HG2	14:j7:435:TYR:CE1	2.11	0.86
13:c9:75:PHE:CE1	9:l5:141:PHE:HE1	1.93	0.86
14:e4:27:PHE:HE2	14:k0:209:ILE:HG12	1.36	0.86
14:e6:121:ARG:CZ	14:e6:129:TYR:CE1	2.57	0.86
14:j9:211:LEU:HD22	14:j9:215:GLU:CD	2.01	0.86
14:e2:211:LEU:HD22	14:e2:215:GLU:CD	1.99	0.85
14:i2:256:ASN:CG	14:i2:257:HIS:CD2	2.55	0.85
9:b1:172:ASN:ND2	14:j0:172:GLU:HA	1.91	0.85
9:b4:163:VAL:HG23	15:l4:39:TYR:HD2	1.34	0.85
12:c6:137:PHE:CE2	14:k2:436:ALA:CB	2.57	0.85
14:h3:260:LYS:HD3	14:h3:421:TYR:OH	1.75	0.85
14:k0:60:ILE:CG2	14:k0:208:TYR:OH	2.24	0.85
12:c7:24:VAL:HG21	14:l0:16:VAL:HG21	1.55	0.85
14:e4:209:ILE:HD13	14:h2:27:PHE:HE1	1.39	0.85
14:g9:60:ILE:CD1	14:g9:165:LEU:HD21	2.06	0.85
14:h9:211:LEU:HD22	14:h9:215:GLU:CD	2.00	0.85
14:j5:72:VAL:CG1	14:j5:74:PHE:CZ	2.57	0.85
9:b8:186:ALA:HB3	14:g6:428:SER:OG	1.77	0.85
14:i6:306:TYR:HE2	14:i6:346:VAL:HG22	1.39	0.85
14:k5:67:ILE:CG2	14:k5:208:TYR:CD1	2.58	0.85
14:d8:17:TYR:HE2	14:g6:227:LEU:HD13	1.42	0.85
14:f7:260:LYS:HE3	14:f7:360:PRO:CA	2.06	0.85
14:g3:209:ILE:HG13	14:j1:27:PHE:HE1	1.38	0.85
14:j1:430:MET:SD	9:l5:191:TRP:CZ3	2.69	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b2:162:GLY:O	14:e0:436:ALA:HB2	1.76	0.85
14:e2:260:LYS:HE2	14:e2:360:PRO:C	2.01	0.85
14:f8:67:ILE:HG21	14:f8:208:TYR:CE2	2.11	0.85
14:f8:206:VAL:HB	14:f8:208:TYR:CE1	2.11	0.85
14:g1:67:ILE:CG2	14:g1:208:TYR:CD2	2.59	0.85
14:k1:260:LYS:CE	14:k1:360:PRO:HA	2.05	0.85
4:a4:108:PHE:CD2	4:a4:132:LYS:CB	2.60	0.85
13:c9:71:ARG:NH2	13:c9:72:TYR:CZ	2.45	0.85
9:b5:185:LYS:CB	9:b5:198:PRO:HG2	2.06	0.85
14:d0:27:PHE:HE1	14:i6:209:ILE:HD13	1.40	0.85
14:d7:329:ARG:CZ	14:d7:333:TYR:CE1	2.60	0.85
14:g3:209:ILE:CG1	14:j1:27:PHE:HE1	1.88	0.85
14:d6:175:LEU:HD13	14:d6:177:PHE:HZ	1.41	0.85
14:h3:60:ILE:HD11	14:h3:165:LEU:HD21	1.59	0.85
14:i4:329:ARG:CZ	14:i4:333:TYR:CE1	2.60	0.85
14:g4:105:ILE:HD12	14:g4:433:LEU:CD2	2.07	0.84
14:l2:35:THR:HG21	14:l2:215:GLU:OE1	1.77	0.84
11:c3:7:ASP:HB3	14:e3:169:GLN:O	1.76	0.84
11:c3:22:THR:HG21	14:k0:375:ASP:CG	2.01	0.84
12:c8:88:VAL:HG22	14:f4:9:VAL:CG1	2.06	0.84
14:f2:242:SER:C	14:f2:386:CYS:SG	2.59	0.84
14:f2:260:LYS:CE	14:f2:360:PRO:O	2.25	0.84
14:g9:60:ILE:CD1	14:g9:173:VAL:HB	2.07	0.84
14:k9:166:ILE:HD11	14:k9:219:PHE:CB	2.06	0.84
5:a5:93:PRO:HG2	10:b6:179:ALA:O	1.77	0.84
14:d1:209:ILE:HG21	14:f9:27:PHE:CE1	2.12	0.84
14:f1:260:LYS:CD	14:f1:360:PRO:HA	2.08	0.84
14:i5:329:ARG:NH1	14:i5:333:TYR:CE2	2.45	0.84
9:b3:164:ASN:OD1	14:g9:436:ALA:HB3	1.78	0.84
10:b6:262:ALA:HB3	14:h5:321:ASN:HD21	1.02	0.84
14:d0:96:VAL:HG22	14:d0:177:PHE:CD2	2.11	0.84
14:f1:373:ARG:NE	14:k7:12:GLY:HA3	1.93	0.84
14:f8:35:THR:HG21	14:f8:215:GLU:OE1	1.77	0.84
14:h3:67:ILE:HG21	14:h3:208:TYR:CE2	2.13	0.84
14:k9:260:LYS:HD3	14:k9:421:TYR:HH	1.40	0.84
9:b1:160:TRP:CZ2	14:j3:21:ASN:HB2	2.11	0.84
12:c6:140:TYR:CE1	14:h8:213:THR:CG2	2.58	0.84
12:c7:166:LEU:HB2	14:h3:373:ARG:HH21	1.40	0.84
14:g8:260:LYS:CD	14:g8:360:PRO:HA	2.06	0.84
14:h5:67:ILE:CG2	14:h5:208:TYR:CE2	2.59	0.84
12:c7:78:CYS:SG	12:c7:84:GLY:HA3	2.18	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e6:260:LYS:HD3	14:e6:421:TYR:OH	1.77	0.84
14:h6:11:TYR:HE1	14:h6:15:ASP:HB3	1.40	0.84
14:h6:67:ILE:CG2	14:h6:208:TYR:CE2	2.60	0.84
14:h6:67:ILE:HG21	14:h6:208:TYR:CE2	2.13	0.84
14:k5:105:ILE:HG12	14:k5:433:LEU:CD2	2.07	0.84
2:a1:154:LEU:HD12	3:a2:284:TYR:CE2	2.11	0.84
13:c9:129:TYR:CD2	9:l5:149:LEU:CD2	2.61	0.84
14:d8:60:ILE:CG2	14:d8:208:TYR:OH	2.25	0.84
14:f7:60:ILE:CG2	14:f7:208:TYR:OH	2.25	0.84
14:j5:266:PHE:HZ	14:j5:381:LEU:HD13	1.43	0.84
14:d0:27:PHE:CZ	14:i6:209:ILE:HG21	2.12	0.84
14:d3:260:LYS:NZ	14:d3:357:ALA:CB	2.40	0.84
14:g1:60:ILE:HD12	14:g1:165:LEU:HD21	1.59	0.84
14:g1:99:GLU:OE2	14:g1:102:GLY:CA	2.25	0.84
14:h6:114:ARG:NH2	14:h6:117:ASP:HB3	1.91	0.84
14:j1:260:LYS:HE2	14:j1:421:TYR:CZ	2.12	0.84
12:c8:85:PHE:HE2	14:i2:375:ASP:CB	1.89	0.83
14:e9:60:ILE:CG2	14:e9:208:TYR:OH	2.23	0.83
14:g6:60:ILE:HG23	14:g6:208:TYR:OH	1.77	0.83
14:h6:260:LYS:NZ	14:h6:357:ALA:CB	2.39	0.83
14:f0:60:ILE:HD11	14:f0:173:VAL:CB	2.06	0.83
14:g5:366:SER:O	14:j3:37:PHE:HE1	1.61	0.83
14:k1:308:GLU:OE1	14:k1:308:GLU:N	2.09	0.83
2:a1:154:LEU:HD12	3:a2:284:TYR:CE1	2.13	0.83
12:c7:75:THR:CG2	14:i3:435:TYR:HD1	1.90	0.83
14:e4:27:PHE:HE2	14:k0:209:ILE:CG1	1.91	0.83
14:g8:211:LEU:HD22	14:g8:215:GLU:CD	2.04	0.83
14:h6:425:ARG:CZ	14:h6:427:MET:SD	2.66	0.83
14:k9:65:ASP:CA	14:k9:166:ILE:HG23	2.07	0.83
9:b1:186:ALA:HB3	14:j0:428:SER:HB3	1.58	0.83
10:b6:206:PRO:HB2	14:d5:13:ALA:HA	1.57	0.83
13:c9:150:ARG:HD2	14:d1:5:LEU:HD22	1.60	0.83
13:c9:150:ARG:NE	14:i7:216:ARG:HD2	1.93	0.83
14:d8:27:PHE:CZ	14:j4:209:ILE:CG2	2.60	0.83
14:i9:329:ARG:CZ	14:i9:333:TYR:CE2	2.62	0.83
5:a5:176:ASN:ND2	14:g3:428:SER:N	2.25	0.83
12:c7:43:THR:CA	14:f4:170:TYR:OH	2.26	0.83
14:e4:209:ILE:CD1	14:h2:27:PHE:CE1	2.61	0.83
14:f1:260:LYS:HD3	14:f1:360:PRO:CA	2.08	0.83
14:i4:182:GLN:HB2	14:i4:188:TYR:CD1	2.13	0.83
14:l3:260:LYS:CD	14:l3:421:TYR:OH	2.23	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b3:155:LEU:CD1	14:e2:216:ARG:CD	2.53	0.83
14:d8:17:TYR:CE2	14:g6:227:LEU:CD1	2.62	0.83
14:d8:114:ARG:HH21	14:d8:117:ASP:HB3	1.41	0.83
14:e3:99:GLU:OE1	14:e3:176:TYR:CE1	2.32	0.83
14:f6:40:GLU:HB3	14:f6:210:PHE:HE1	1.42	0.83
14:i6:329:ARG:CZ	14:i6:333:TYR:CE1	2.62	0.83
3:a3:234:ARG:HD2	14:i7:30:VAL:CG2	2.09	0.83
12:c8:98:TYR:CE1	14:l0:172:GLU:HG3	2.12	0.83
14:f0:114:ARG:HH21	14:f0:117:ASP:CB	1.90	0.83
9:b4:175:TYR:CG	14:d9:321:ASN:HB3	2.13	0.83
12:c7:56:MET:SD	14:i3:170:TYR:CD1	2.72	0.83
14:e4:209:ILE:CD1	14:h2:27:PHE:HE1	1.92	0.83
14:i6:60:ILE:HD12	14:i6:165:LEU:HD21	1.59	0.83
14:j5:211:LEU:HB2	14:j5:216:ARG:CG	2.08	0.83
14:j7:308:GLU:OE1	14:j7:308:GLU:N	2.08	0.83
14:l3:260:LYS:CD	14:l3:421:TYR:CE1	2.62	0.83
9:b1:178:ARG:NH1	14:j0:216:ARG:HD3	1.93	0.83
12:c7:162:THR:HG21	14:e6:435:TYR:CD1	2.13	0.83
14:d8:67:ILE:HG22	14:d8:208:TYR:CD2	2.13	0.83
14:e0:209:ILE:CG1	14:g8:27:PHE:HE1	1.92	0.83
14:i1:4:GLY:HA2	14:k9:325:ARG:NH1	1.94	0.83
14:i9:260:LYS:HD2	14:i9:357:ALA:HB2	1.59	0.83
14:k5:100:ILE:CG1	14:k5:105:ILE:CD1	2.57	0.83
10:b6:318:TYR:HD2	14:l3:5:LEU:CD2	1.88	0.83
12:c6:59:SER:HB2	14:f5:169:GLN:HB2	1.57	0.83
14:e3:99:GLU:OE1	14:e3:176:TYR:HE1	1.62	0.83
14:k9:166:ILE:CD1	14:k9:219:PHE:HB3	2.09	0.83
2:a1:158:TYR:CE1	3:a2:231:LEU:HG	2.14	0.82
10:b6:192:PRO:O	14:g3:427:MET:CE	2.27	0.82
14:f7:320:LEU:HD22	14:f7:374:ILE:HD13	1.59	0.82
14:g9:182:GLN:HB2	14:g9:188:TYR:CD2	2.14	0.82
14:k8:260:LYS:HD3	14:k8:421:TYR:CE2	2.14	0.82
14:k8:260:LYS:CD	14:k8:421:TYR:CE2	2.62	0.82
9:b3:192:MET:HE3	14:j8:103:GLN:NE2	1.93	0.82
10:b6:256:VAL:HG13	14:h6:375:ASP:OD1	1.79	0.82
10:b6:317:ARG:CD	14:l3:5:LEU:HD13	2.09	0.82
10:b6:359:LEU:HD22	14:l2:375:ASP:HB3	1.60	0.82
12:c8:88:VAL:HG23	14:f4:9:VAL:O	1.79	0.82
12:c8:99:LEU:HD12	14:l0:169:GLN:HB3	1.60	0.82
14:e4:260:LYS:HE3	14:e4:360:PRO:CA	2.06	0.82
14:g4:60:ILE:CG2	14:g4:208:TYR:OH	2.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g9:158:THR:HB	14:g9:363:ARG:NH1	1.94	0.82
14:h4:209:ILE:HG23	14:k2:27:PHE:CZ	2.14	0.82
3:a3:246:LEU:CD2	14:i7:32:ARG:CZ	2.57	0.82
12:c6:85:PHE:CE2	14:f6:375:ASP:CB	2.62	0.82
14:d7:329:ARG:NH1	14:d7:333:TYR:CE1	2.47	0.82
14:e5:27:PHE:HZ	14:k1:209:ILE:CG2	1.89	0.82
14:f3:260:LYS:CD	14:f3:421:TYR:CE1	2.63	0.82
14:f7:320:LEU:HD13	14:f7:374:ILE:HD11	1.59	0.82
14:g6:260:LYS:HE2	14:g6:360:PRO:O	1.79	0.82
14:i5:121:ARG:CZ	14:i5:129:TYR:CE1	2.62	0.82
14:e1:67:ILE:CG2	14:e1:208:TYR:CD1	2.62	0.82
14:e9:67:ILE:CG2	14:e9:208:TYR:CD2	2.62	0.82
14:h8:38:ALA:N	14:k6:8:LEU:HD21	1.94	0.82
14:h9:266:PHE:HZ	14:h9:381:LEU:HD13	1.42	0.82
14:d4:260:LYS:CE	14:d4:360:PRO:O	2.28	0.82
14:k3:99:GLU:OE1	14:k3:176:TYR:CE1	2.32	0.82
10:b6:247:LYS:CG	14:j3:170:TYR:HB3	2.09	0.82
14:d0:27:PHE:CZ	14:i6:209:ILE:CG2	2.62	0.82
14:d6:260:LYS:CE	14:d6:360:PRO:HA	2.05	0.82
14:e8:99:GLU:OE2	14:e8:102:GLY:CA	2.28	0.82
14:f2:60:ILE:HD12	14:f2:165:LEU:HD21	1.62	0.82
14:f9:96:VAL:CG2	14:f9:177:PHE:CE2	2.62	0.82
14:g4:17:TYR:CD2	14:j2:423:VAL:HG21	2.14	0.82
14:g9:158:THR:HG21	14:g9:363:ARG:NE	1.92	0.82
14:i6:306:TYR:CE2	14:i6:346:VAL:HG22	2.14	0.82
14:j0:329:ARG:CZ	14:j0:333:TYR:CE2	2.63	0.82
14:j5:211:LEU:O	14:j5:216:ARG:CD	2.25	0.82
10:b6:324:GLY:HA2	14:f7:375:ASP:N	1.94	0.82
14:d2:27:PHE:HE1	14:i8:209:ILE:CD1	1.92	0.82
14:f8:99:GLU:OE2	14:f8:102:GLY:CA	2.27	0.82
14:g5:60:ILE:CG2	14:g5:208:TYR:OH	2.25	0.82
14:i4:260:LYS:HZ2	14:i4:357:ALA:HB1	1.44	0.82
10:b6:317:ARG:HD3	14:l3:5:LEU:HD13	1.59	0.82
14:d0:146:ARG:NE	14:i6:330:LYS:HG3	1.94	0.82
14:f0:206:VAL:HB	14:f0:208:TYR:CE1	2.14	0.82
14:g0:260:LYS:HD3	14:g0:421:TYR:OH	1.79	0.82
14:k5:60:ILE:CD1	14:k5:165:LEU:HD21	2.09	0.82
9:b2:160:TRP:HE1	14:e0:171:HIS:CE1	1.98	0.82
14:g6:99:GLU:OE2	14:g6:102:GLY:CA	2.26	0.81
14:i6:60:ILE:HD11	14:i6:165:LEU:CD1	2.09	0.81
12:c7:89:ASN:ND2	14:k8:435:TYR:HD1	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j1:211:LEU:HD22	14:j1:215:GLU:CD	2.04	0.81
14:j1:372:SER:HA	9:l5:169:SER:OG	1.80	0.81
9:c0:165:THR:CG2	14:k4:435:TYR:HD1	1.90	0.81
11:c2:67:THR:HG21	14:k0:217:THR:HB	1.62	0.81
14:e7:206:VAL:HB	14:e7:208:TYR:CE1	2.14	0.81
14:g5:260:LYS:HD3	14:g5:421:TYR:OH	1.79	0.81
14:j5:212:ASP:O	14:j5:216:ARG:HG3	1.80	0.81
14:l3:260:LYS:HD3	14:l3:421:TYR:CE1	2.15	0.81
14:d3:175:LEU:HD13	14:d3:177:PHE:HZ	1.45	0.81
14:f4:308:GLU:OE2	14:f4:336:LYS:HE3	1.79	0.81
14:h4:209:ILE:CG1	14:k2:27:PHE:HE1	1.93	0.81
14:h6:306:TYR:CE2	14:h6:346:VAL:HG22	2.16	0.81
14:i1:260:LYS:HG2	14:i1:421:TYR:HE1	1.43	0.81
14:j7:67:ILE:CG2	14:j7:208:TYR:CD2	2.64	0.81
11:c3:15:ASP:CB	14:h2:5:LEU:CD2	2.59	0.81
14:e3:211:LEU:HD22	14:e3:215:GLU:CD	2.05	0.81
14:e4:252:ARG:HD3	14:j9:252:ARG:CD	2.10	0.81
14:f8:35:THR:CB	14:f8:215:GLU:OE2	2.27	0.81
14:h0:99:GLU:OE2	14:h0:102:GLY:CA	2.28	0.81
14:g6:260:LYS:HE3	14:g6:360:PRO:C	2.05	0.81
14:h8:37:PHE:C	14:k6:8:LEU:HD21	2.06	0.81
14:i0:66:LEU:HD12	14:k8:27:PHE:CD1	2.16	0.81
14:i8:260:LYS:HE3	14:i8:360:PRO:CA	2.10	0.81
12:c6:56:MET:O	14:f5:169:GLN:CG	2.29	0.81
14:e0:330:LYS:HE2	14:e0:401:GLU:OE2	1.81	0.81
14:f6:257:HIS:HA	14:l2:14:GLN:NE2	1.95	0.81
14:g5:366:SER:O	14:j3:37:PHE:CE1	2.33	0.81
14:j4:188:TYR:CD1	14:j4:193:ALA:HA	2.16	0.81
5:a5:143:MET:CE	14:g3:170:TYR:CD2	2.63	0.81
14:e3:90:GLU:OE2	14:e3:129:TYR:CE2	2.34	0.81
14:f2:260:LYS:HE2	14:f2:360:PRO:O	1.81	0.81
14:f6:258:PRO:HD3	14:l2:14:GLN:NE2	1.95	0.81
14:i4:329:ARG:NH1	14:i4:333:TYR:CE1	2.49	0.81
14:i8:260:LYS:CE	14:i8:360:PRO:HA	2.07	0.81
14:k1:67:ILE:CG2	14:k1:208:TYR:CD2	2.63	0.81
14:l0:260:LYS:CD	14:l0:421:TYR:OH	2.28	0.81
3:a3:246:LEU:HD23	14:i7:32:ARG:NE	1.96	0.81
14:d4:260:LYS:HE2	14:d4:360:PRO:O	1.81	0.81
14:d8:17:TYR:HE2	14:g6:227:LEU:CD1	1.94	0.81
14:f5:329:ARG:CZ	14:f5:333:TYR:CE2	2.64	0.81
14:f7:114:ARG:HH21	14:f7:117:ASP:HB3	1.41	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g8:329:ARG:NH1	14:g8:333:TYR:CE2	2.49	0.81
14:k1:373:ARG:HA	14:k1:373:ARG:HH11	1.46	0.81
9:a9:166:GLN:NE2	14:i5:256:ASN:HD21	1.79	0.81
14:f5:33:ARG:HD2	14:i3:20:GLY:O	1.80	0.81
14:f7:260:LYS:CE	14:f7:360:PRO:HA	2.08	0.81
14:h8:210:PHE:CB	14:k6:8:LEU:HD11	2.10	0.81
14:i4:260:LYS:NZ	14:i4:357:ALA:CB	2.44	0.81
14:i5:40:GLU:HB3	14:i5:210:PHE:HE1	1.44	0.81
10:b6:324:GLY:HA2	14:f7:374:ILE:C	2.06	0.80
14:h0:60:ILE:CG2	14:h0:208:TYR:OH	2.29	0.80
14:j5:329:ARG:NH1	14:j5:333:TYR:CE2	2.49	0.80
14:j6:260:LYS:CE	14:j6:360:PRO:O	2.29	0.80
14:f0:60:ILE:CD1	14:f0:165:LEU:HD21	2.11	0.80
14:h3:60:ILE:HD12	14:h3:165:LEU:HD21	1.61	0.80
2:a1:157:VAL:HB	3:a2:282:ILE:CG2	2.10	0.80
10:b6:247:LYS:HG2	14:j3:170:TYR:CB	2.11	0.80
14:f0:67:ILE:CG2	14:f0:208:TYR:CD2	2.64	0.80
14:i9:260:LYS:HZ2	14:i9:357:ALA:HB1	1.44	0.80
14:j8:206:VAL:HG11	14:j8:208:TYR:CZ	2.16	0.80
14:k1:67:ILE:HG22	14:k1:208:TYR:CD2	2.16	0.80
14:k8:260:LYS:HG2	14:k8:421:TYR:HE2	1.45	0.80
14:d1:329:ARG:NH1	14:d1:333:TYR:CE1	2.49	0.80
14:f8:67:ILE:CG2	14:f8:208:TYR:CE2	2.65	0.80
14:k6:252:ARG:HH11	14:k6:253:LEU:C	1.88	0.80
14:k8:99:GLU:OE2	14:k8:102:GLY:CA	2.29	0.80
10:b6:243:THR:CG2	14:j3:170:TYR:HA	2.12	0.80
12:c8:115:LEU:HD21	14:f2:431:GLY:HA2	1.61	0.80
14:i6:329:ARG:NH1	14:i6:333:TYR:CE1	2.49	0.80
14:k6:252:ARG:HH11	14:k6:254:ASN:HA	1.45	0.80
14:d6:260:LYS:CE	14:d6:360:PRO:O	2.30	0.80
14:e7:60:ILE:HG23	14:e7:208:TYR:HH	1.45	0.80
14:i2:260:LYS:HD3	14:i2:360:PRO:CA	2.11	0.80
14:i8:211:LEU:HD22	14:i8:215:GLU:CD	2.07	0.80
14:f8:60:ILE:CG1	14:f8:173:VAL:CG1	2.54	0.80
14:i5:260:LYS:HD3	14:i5:421:TYR:OH	1.82	0.80
14:j1:430:MET:HE3	9:l5:191:TRP:CZ3	2.17	0.80
14:k8:266:PHE:CZ	14:k8:381:LEU:HD13	2.17	0.80
14:e4:209:ILE:CG2	14:h2:27:PHE:CE1	2.63	0.80
14:k5:67:ILE:CG2	14:k5:208:TYR:CE1	2.64	0.80
9:a9:168:SER:HB3	14:k5:373:ARG:HD3	1.64	0.80
12:c7:99:LEU:HD13	14:l1:169:GLN:HB3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b3:155:LEU:CD1	14:e2:166:ILE:CD1	2.40	0.80
10:b6:299:TYR:CD1	14:k5:14:GLN:NE2	2.50	0.80
12:c6:59:SER:HB2	14:f5:169:GLN:CG	2.12	0.80
14:f9:260:LYS:HD3	14:f9:421:TYR:CZ	2.16	0.80
14:g1:67:ILE:CG2	14:g1:208:TYR:CE2	2.65	0.80
14:g1:260:LYS:HB2	14:g1:421:TYR:HE1	1.45	0.80
14:j7:114:ARG:HH21	14:j7:117:ASP:CB	1.94	0.80
9:a9:177:LEU:CD2	14:f7:9:VAL:HG11	2.12	0.79
14:e1:329:ARG:CZ	14:e1:333:TYR:CE2	2.64	0.79
14:i4:114:ARG:HH21	14:i4:117:ASP:CB	1.95	0.79
14:j3:281:ILE:CD1	14:j3:284:ALA:CB	2.56	0.79
14:k5:67:ILE:HG21	14:k5:208:TYR:CE1	2.17	0.79
9:b5:191:TRP:HE1	14:i9:431:GLY:C	1.90	0.79
14:d4:99:GLU:OE2	14:d4:102:GLY:CA	2.28	0.79
14:e1:60:ILE:HD11	14:e1:173:VAL:HB	1.63	0.79
14:f3:188:TYR:CD2	14:f3:193:ALA:HA	2.16	0.79
9:b3:155:LEU:HD11	14:e2:166:ILE:HD13	1.63	0.79
12:c6:137:PHE:HE1	14:k6:9:VAL:CG2	1.94	0.79
14:d1:329:ARG:CZ	14:d1:333:TYR:CE1	2.65	0.79
14:e2:60:ILE:CG2	14:e2:208:TYR:OH	2.30	0.79
14:e4:211:LEU:HD22	14:e4:215:GLU:CD	2.07	0.79
14:f4:260:LYS:HB3	14:f4:421:TYR:CE1	2.17	0.79
14:g1:67:ILE:HG21	14:g1:208:TYR:CE2	2.18	0.79
14:h8:211:LEU:HD22	14:h8:215:GLU:OE1	1.82	0.79
14:k4:219:PHE:HE1	14:k4:226:TYR:OH	1.65	0.79
2:a1:117:THR:HB	14:d2:169:GLN:HB3	1.65	0.79
2:a1:186:LEU:HD23	14:i6:433:LEU:O	1.83	0.79
12:c6:117:ARG:HH12	14:f1:5:LEU:HD11	1.47	0.79
14:e1:60:ILE:CD1	14:e1:165:LEU:HD21	2.11	0.79
14:i1:158:THR:HG21	14:i1:363:ARG:NE	1.97	0.79
10:b6:314:LEU:HD23	14:i5:62:ARG:CB	2.02	0.79
12:c8:136:SER:HB3	14:k0:434:ALA:O	1.81	0.79
14:d2:27:PHE:CZ	14:i8:209:ILE:HG23	2.18	0.79
14:e9:329:ARG:CZ	14:e9:333:TYR:CE2	2.66	0.79
14:h6:329:ARG:CZ	14:h6:333:TYR:CE1	2.66	0.79
14:k9:166:ILE:CD1	14:k9:219:PHE:CB	2.61	0.79
5:a5:35:PRO:HG3	14:j2:16:VAL:HG11	1.62	0.79
11:c5:11:ILE:O	14:e7:62:ARG:HB2	1.83	0.79
14:f1:329:ARG:CZ	14:f1:333:TYR:CE1	2.66	0.79
14:i7:99:GLU:CD	14:i7:104:ARG:NH1	2.41	0.79
14:k8:99:GLU:OE2	14:k8:102:GLY:C	2.26	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a1:158:TYR:HE1	3:a2:231:LEU:CD1	1.95	0.79
3:a3:236:LEU:HD12	14:i7:23:GLN:CA	2.13	0.79
10:b6:320:ASP:CB	14:k6:435:TYR:HD1	1.96	0.79
14:h4:215:GLU:CA	14:h4:218:ARG:NH2	2.46	0.79
14:h8:212:ASP:O	14:h8:216:ARG:HG3	1.81	0.79
14:j0:100:ILE:HD12	14:j0:105:ILE:HD13	1.62	0.79
14:j8:99:GLU:OE2	14:j8:102:GLY:CA	2.30	0.79
9:a9:165:THR:CG2	14:f7:14:GLN:OE1	2.29	0.79
9:c0:177:LEU:HG	14:k4:323:GLN:HE22	1.48	0.79
13:c9:94:VAL:HG12	9:l5:164:ASN:O	1.81	0.79
14:e3:329:ARG:CZ	14:e3:333:TYR:CE1	2.66	0.79
14:h0:121:ARG:NH1	14:h0:129:TYR:CE1	2.51	0.79
14:k9:260:LYS:HD3	14:k9:421:TYR:CZ	2.17	0.79
11:c2:5:PHE:O	14:k0:169:GLN:HG3	1.83	0.79
12:c6:149:LEU:CD1	14:k2:169:GLN:HG3	2.08	0.79
13:c9:165:PHE:HZ	14:f9:425:ARG:CB	1.93	0.79
2:a1:185:PHE:HE2	14:i6:425:ARG:HD2	1.42	0.79
14:f8:35:THR:HG21	14:f8:215:GLU:CD	2.07	0.79
14:h5:260:LYS:HD3	14:h5:421:TYR:OH	1.83	0.79
14:k5:100:ILE:CB	14:k5:105:ILE:HD11	2.12	0.79
9:b5:181:PRO:HD3	14:g7:216:ARG:NH1	1.98	0.78
12:c7:59:SER:CB	14:f4:169:GLN:CG	2.62	0.78
13:c9:150:ARG:NH1	14:d1:5:LEU:HD21	1.97	0.78
14:g6:266:PHE:CZ	14:g6:381:LEU:HD13	2.17	0.78
14:g9:158:THR:CB	14:g9:363:ARG:CZ	2.60	0.78
9:b2:175:TYR:HD1	14:e0:321:ASN:CA	1.95	0.78
12:c6:129:ARG:HH21	14:f0:376:ASN:HD21	1.26	0.78
14:g2:4:GLY:HA2	14:j0:325:ARG:NH1	1.98	0.78
14:h3:211:LEU:HD22	14:h3:215:GLU:CD	2.07	0.78
14:h6:11:TYR:CE1	14:h6:15:ASP:HB3	2.18	0.78
14:l3:67:ILE:HG22	14:l3:208:TYR:CD1	2.18	0.78
14:d1:209:ILE:CD1	14:f9:27:PHE:HE1	1.93	0.78
14:f8:96:VAL:CG2	14:f8:177:PHE:CD1	2.66	0.78
14:k9:166:ILE:HD11	14:k9:219:PHE:HB3	1.64	0.78
10:b6:283:SER:CB	14:k3:101:GLY:O	2.31	0.78
14:f1:96:VAL:HG22	14:f1:177:PHE:HD2	1.48	0.78
14:f9:219:PHE:HE1	14:f9:226:TYR:OH	1.66	0.78
10:b6:323:ARG:O	14:f7:375:ASP:HB2	1.84	0.78
12:c6:112:SER:HB2	14:f0:430:MET:CE	2.13	0.78
14:i2:99:GLU:OE1	14:i2:102:GLY:CA	2.31	0.78
14:j6:260:LYS:CE	14:j6:360:PRO:C	2.56	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c4:26:LEU:HD21	14:f1:13:ALA:H	1.47	0.78
12:c8:142:TRP:C	14:i0:216:ARG:HH22	1.91	0.78
14:e0:211:LEU:HD22	14:e0:215:GLU:CD	2.09	0.78
14:g1:60:ILE:HD11	14:g1:165:LEU:CD2	2.12	0.78
14:g2:321:ASN:HB3	9:l5:175:TYR:HE1	1.47	0.78
14:k1:175:LEU:HD13	14:k1:177:PHE:HZ	1.47	0.78
1:a0:12:LEU:HD21	1:a0:66:TYR:HE2	1.46	0.78
14:e0:96:VAL:HG22	14:e0:177:PHE:CD2	2.18	0.78
14:f0:114:ARG:NH2	14:f0:117:ASP:CB	2.45	0.78
14:h7:107:LYS:HD3	14:h7:109:TYR:OH	1.83	0.78
14:j4:211:LEU:HD22	14:j4:215:GLU:CD	2.08	0.78
11:c4:42:PRO:HB2	14:f1:16:VAL:HG22	1.66	0.78
14:e5:329:ARG:CZ	14:e5:333:TYR:CE1	2.66	0.78
14:g2:427:MET:HE2	9:l5:152:GLN:HB3	1.66	0.78
14:h3:67:ILE:CG2	14:h3:208:TYR:CE2	2.67	0.78
14:i1:96:VAL:HG22	14:i1:177:PHE:CD2	2.19	0.78
14:j5:72:VAL:HG11	14:j5:74:PHE:CE2	2.12	0.78
13:c9:13:PHE:HZ	9:l5:152:GLN:NE2	1.78	0.78
14:d1:306:TYR:HD1	14:f9:131:ARG:NH1	1.81	0.78
14:d1:346:VAL:HG22	14:f9:131:ARG:HH11	1.48	0.78
14:h8:211:LEU:HD13	14:h8:215:GLU:HG2	1.66	0.78
14:j1:428:SER:O	9:l5:191:TRP:HH2	1.65	0.78
14:k5:100:ILE:CD1	14:k5:105:ILE:HD12	2.13	0.78
15:l4:82:CYS:SG	15:l4:90:CYS:CB	2.71	0.78
5:a5:152:SER:O	5:a5:153:LEU:HD12	1.83	0.78
14:e5:252:ARG:NH1	14:j6:252:ARG:HD3	1.99	0.78
14:h9:175:LEU:HD13	14:h9:177:PHE:HZ	1.49	0.78
14:j4:226:TYR:CE2	14:j4:426:ILE:HD13	2.19	0.78
12:c8:88:VAL:HA	14:f4:9:VAL:HG22	1.65	0.77
14:e7:60:ILE:CG2	14:e7:208:TYR:OH	2.27	0.77
14:e7:206:VAL:CG1	14:e7:208:TYR:CZ	2.66	0.77
14:f1:60:ILE:CG2	14:f1:208:TYR:OH	2.32	0.77
14:j7:260:LYS:HD3	14:j7:421:TYR:OH	1.83	0.77
10:b6:270:ARG:HH12	14:e7:5:LEU:HD13	1.49	0.77
12:c8:132:ILE:O	14:k0:436:ALA:HB3	1.82	0.77
14:d4:260:LYS:CE	14:d4:360:PRO:C	2.56	0.77
14:e4:27:PHE:CE2	14:k0:209:ILE:CG1	2.66	0.77
14:g4:306:TYR:CE1	14:g4:346:VAL:HG11	2.19	0.77
14:h2:11:TYR:HE1	14:h2:15:ASP:HB3	1.49	0.77
14:i5:211:LEU:HD22	14:i5:215:GLU:CD	2.08	0.77
14:k1:158:THR:HB	14:k1:363:ARG:NH1	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a1:157:VAL:CG1	3:a2:282:ILE:HG21	2.13	0.77
4:a4:109:VAL:HG21	4:a4:124:THR:HG21	1.66	0.77
9:b4:175:TYR:OH	14:d9:375:ASP:CB	2.33	0.77
9:b7:175:TYR:HB3	14:i9:63:ASN:ND2	1.98	0.77
9:c1:163:VAL:CG2	14:h7:434:ALA:O	2.30	0.77
11:c5:42:PRO:HG2	14:f0:11:TYR:HE1	1.50	0.77
14:e3:330:LYS:HG3	14:h1:146:ARG:NE	1.99	0.77
14:e4:146:ARG:NE	14:k0:330:LYS:HG3	1.99	0.77
14:e7:188:TYR:CD2	14:e7:193:ALA:HA	2.20	0.77
14:g6:260:LYS:CE	14:g6:360:PRO:O	2.31	0.77
3:a3:279:TRP:CD1	14:f9:15:ASP:OD2	2.38	0.77
5:a5:143:MET:CE	14:g3:170:TYR:CE2	2.68	0.77
14:g3:114:ARG:HH21	14:g3:117:ASP:HB3	1.48	0.77
14:i2:242:SER:C	14:i2:386:CYS:SG	2.67	0.77
14:l1:114:ARG:NH2	14:l1:117:ASP:CB	2.46	0.77
2:a1:150:LEU:CD2	14:d2:425:ARG:NH1	2.23	0.77
14:e4:209:ILE:CG2	14:h2:27:PHE:CZ	2.67	0.77
14:f3:260:LYS:HD3	14:f3:421:TYR:CE1	2.18	0.77
14:f3:260:LYS:CD	14:f3:421:TYR:OH	2.28	0.77
14:i1:260:LYS:HD3	14:i1:421:TYR:HH	1.47	0.77
9:b0:193:MET:O	14:l3:436:ALA:HB3	1.83	0.77
9:b7:203:LYS:HE2	14:g6:212:ASP:OD2	1.84	0.77
12:c6:99:LEU:HA	14:k7:170:TYR:CD1	2.15	0.77
14:f2:60:ILE:CD1	14:f2:173:VAL:HB	2.15	0.77
14:h3:60:ILE:HD11	14:h3:165:LEU:CD2	2.15	0.77
9:b7:161:ILE:HD13	14:d8:103:GLN:CD	2.08	0.77
14:e0:209:ILE:CG1	14:g8:27:PHE:CE1	2.67	0.77
14:k6:188:TYR:CD1	14:k6:193:ALA:HA	2.20	0.77
14:k8:260:LYS:HD3	14:k8:421:TYR:HH	1.47	0.77
14:d1:306:TYR:CD1	14:f9:131:ARG:NH1	2.52	0.77
14:f1:329:ARG:NH1	14:f1:333:TYR:CE1	2.52	0.77
14:g7:35:THR:HG21	14:g7:215:GLU:OE1	1.83	0.77
14:h5:206:VAL:HB	14:h5:208:TYR:CE1	2.19	0.77
10:b6:187:TYR:CE2	14:g3:170:TYR:CD1	2.72	0.77
9:c0:179:ALA:HA	9:c0:201:TYR:CD2	2.20	0.77
14:d5:33:ARG:HD2	14:g3:20:GLY:O	1.85	0.77
14:g3:209:ILE:HG13	14:j1:27:PHE:CE1	2.20	0.77
14:j3:60:ILE:HD11	14:j3:173:VAL:HB	1.65	0.77
4:a4:112:VAL:CG2	4:a4:121:PRO:HG3	2.15	0.77
12:c6:117:ARG:NH1	14:f1:5:LEU:HD21	1.99	0.77
12:c7:147:VAL:HG21	14:h9:170:TYR:CE1	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f8:215:GLU:OE2	14:i6:25:THR:CG2	2.33	0.77
14:g8:329:ARG:CZ	14:g8:333:TYR:CE2	2.67	0.77
14:i8:260:LYS:NZ	14:i8:357:ALA:CB	2.46	0.77
8:a8:131:ALA:HB3	8:a8:136:PHE:CZ	2.08	0.76
10:b6:328:THR:HB	14:i4:375:ASP:OD2	1.84	0.76
12:c8:119:PHE:CE2	14:f2:436:ALA:HB2	2.20	0.76
14:g2:375:ASP:HB2	9:l5:171:LYS:CB	2.16	0.76
14:i5:329:ARG:CZ	14:i5:333:TYR:CE2	2.67	0.76
3:a2:240:PRO:HG2	14:d0:23:GLN:O	1.85	0.76
10:b6:192:PRO:O	14:g3:427:MET:HE2	1.86	0.76
14:f6:211:LEU:HD22	14:f6:215:GLU:OE1	1.84	0.76
14:h4:215:GLU:HA	14:h4:218:ARG:CZ	2.14	0.76
14:i2:12:GLY:HA3	14:l0:373:ARG:HE	1.50	0.76
14:j1:88:PRO:HG3	14:j1:135:TRP:CZ3	2.20	0.76
14:j1:260:LYS:HE2	14:j1:421:TYR:CE1	2.19	0.76
14:j7:114:ARG:NH2	14:j7:117:ASP:CB	2.47	0.76
11:c5:46:LEU:CB	14:f0:21:ASN:ND2	2.49	0.76
12:c7:85:PHE:HE2	14:i3:375:ASP:N	1.82	0.76
14:d2:99:GLU:OE2	14:d2:102:GLY:CA	2.32	0.76
14:d6:260:LYS:HE2	14:d6:360:PRO:O	1.86	0.76
14:f8:306:TYR:CE2	14:f8:346:VAL:HG22	2.20	0.76
14:g8:17:TYR:CE2	14:j6:423:VAL:HG21	2.19	0.76
2:a1:185:PHE:CE2	14:i6:425:ARG:CD	2.65	0.76
3:a3:234:ARG:HD2	14:i7:30:VAL:HG23	1.66	0.76
10:b6:251:GLN:HA	14:e8:5:LEU:HD13	1.67	0.76
14:g8:67:ILE:HG22	14:g8:208:TYR:CD1	2.20	0.76
14:h2:11:TYR:CE1	14:h2:15:ASP:HB2	2.19	0.76
14:h7:107:LYS:HE2	14:h7:109:TYR:HE1	1.48	0.76
14:j6:425:ARG:NH2	14:j6:434:ALA:HA	2.00	0.76
14:j7:67:ILE:HG22	14:j7:208:TYR:CD2	2.21	0.76
14:k1:260:LYS:CE	14:k1:357:ALA:HB1	2.14	0.76
14:k5:211:LEU:HD13	14:k5:215:GLU:HG2	1.68	0.76
14:d1:209:ILE:HG21	14:f9:27:PHE:CZ	2.20	0.76
14:d3:260:LYS:HZ1	14:d3:357:ALA:CB	1.91	0.76
14:h2:211:LEU:HD22	14:h2:215:GLU:CD	2.10	0.76
14:h6:426:ILE:O	14:h6:427:MET:HG3	1.85	0.76
14:h7:242:SER:C	14:h7:386:CYS:SG	2.69	0.76
14:h9:96:VAL:HG13	14:h9:177:PHE:CE2	2.21	0.76
14:j5:99:GLU:OE2	14:j5:102:GLY:HA2	1.85	0.76
15:l4:77:PHE:CG	15:l4:90:CYS:SG	2.78	0.76
4:a4:146:ASN:CB	4:a4:153:GLY:N	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:a9:166:GLN:HE22	14:i5:256:ASN:ND2	1.83	0.76
14:d9:17:TYR:CE2	14:g7:227:LEU:HB2	2.20	0.76
14:g9:158:THR:HG21	14:g9:363:ARG:CD	2.15	0.76
14:k5:423:VAL:O	14:k5:434:ALA:CB	2.33	0.76
14:d2:27:PHE:HE1	14:i8:209:ILE:CG1	1.98	0.76
14:e2:67:ILE:HG22	14:e2:208:TYR:CD2	2.20	0.76
14:g1:260:LYS:CE	14:g1:360:PRO:O	2.33	0.76
9:a9:161:ILE:HD12	14:i5:103:GLN:OE1	1.85	0.76
12:c6:108:ASN:HD21	14:f0:428:SER:HB3	1.51	0.76
12:c6:117:ARG:NH1	14:f1:5:LEU:CD2	2.49	0.76
14:e1:67:ILE:HG21	14:e1:208:TYR:CE1	2.20	0.76
14:e3:258:PRO:HG2	14:e3:421:TYR:HB2	1.68	0.76
14:e8:252:ARG:HH11	14:h7:252:ARG:HH11	1.32	0.76
14:f6:252:ARG:CZ	14:k7:252:ARG:HD3	2.15	0.76
14:f6:252:ARG:HD3	14:k7:252:ARG:HH11	1.49	0.76
14:j8:206:VAL:CG1	14:j8:208:TYR:CZ	2.69	0.76
14:k1:260:LYS:CE	14:k1:357:ALA:CB	2.63	0.76
14:e0:260:LYS:HD3	14:e0:421:TYR:OH	1.86	0.76
14:h1:60:ILE:CG2	14:h1:208:TYR:OH	2.34	0.76
14:h3:206:VAL:HB	14:h3:208:TYR:CE1	2.20	0.76
14:i1:96:VAL:HG22	14:i1:177:PHE:HD2	1.51	0.76
14:i1:425:ARG:NH2	14:i1:434:ALA:HA	2.01	0.76
14:i8:260:LYS:HD2	14:i8:357:ALA:CB	2.16	0.76
9:b4:175:TYR:CD1	14:d9:321:ASN:HB3	2.21	0.76
12:c7:162:THR:HG21	14:e6:435:TYR:HD1	1.50	0.76
14:l3:60:ILE:CG2	14:l3:208:TYR:OH	2.32	0.76
9:a9:170:LEU:HD23	9:a9:199:ASN:ND2	2.01	0.75
9:b5:191:TRP:O	14:i9:434:ALA:HA	1.86	0.75
10:b6:324:GLY:HA2	14:f7:374:ILE:CA	2.15	0.75
9:c1:192:MET:O	9:c1:193:MET:C	2.27	0.75
12:c6:59:SER:HB2	14:f5:169:GLN:CB	2.16	0.75
12:c8:127:ARG:HD3	14:k9:375:ASP:OD2	1.85	0.75
14:d3:17:TYR:HE2	14:g1:435:TYR:HH	1.33	0.75
14:f4:188:TYR:CD1	14:f4:193:ALA:HA	2.22	0.75
14:f5:99:GLU:OE2	14:f5:102:GLY:CA	2.31	0.75
14:j1:330:LYS:HE2	14:j1:401:GLU:OE2	1.86	0.75
12:c7:75:THR:HG21	14:i3:435:TYR:CD1	2.19	0.75
12:c7:117:ARG:HE	14:k8:216:ARG:HD2	1.51	0.75
14:d9:17:TYR:OH	14:g7:227:LEU:HB2	1.85	0.75
14:e3:256:ASN:OD1	14:e3:257:HIS:CD2	2.37	0.75
14:e4:209:ILE:HG21	14:h2:27:PHE:CZ	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h4:214:GLN:CB	14:h4:218:ARG:HH12	1.99	0.75
14:d6:260:LYS:CE	14:d6:360:PRO:C	2.59	0.75
14:e0:11:TYR:CE1	14:e0:15:ASP:HB3	2.21	0.75
14:e7:206:VAL:HG11	14:e7:208:TYR:CZ	2.22	0.75
14:f9:96:VAL:HG21	14:f9:177:PHE:CE2	2.21	0.75
14:g9:182:GLN:CB	14:g9:188:TYR:CD2	2.69	0.75
14:j6:260:LYS:HE2	14:j6:360:PRO:O	1.85	0.75
5:a5:95:THR:HG23	5:a5:96:ASP:N	2.00	0.75
10:b6:299:TYR:CE2	14:e9:435:TYR:CD2	2.74	0.75
12:c7:53:LEU:HD23	14:i3:169:GLN:O	1.86	0.75
14:h4:215:GLU:HB2	14:h4:218:ARG:HH22	1.51	0.75
14:j1:260:LYS:CE	14:j1:421:TYR:OH	2.34	0.75
2:a1:185:PHE:HE2	14:i6:425:ARG:HB3	1.52	0.75
5:a5:176:ASN:ND2	14:g3:427:MET:HA	2.00	0.75
13:c9:95:GLN:CA	9:l5:165:THR:O	2.31	0.75
14:e0:67:ILE:CG2	14:e0:208:TYR:CD2	2.69	0.75
14:e1:340:TYR:CZ	14:g9:150:PRO:HG3	2.22	0.75
14:f0:11:TYR:CE2	14:f0:15:ASP:HB3	2.22	0.75
3:a2:246:LEU:HD21	14:i6:364:GLN:CD	2.11	0.75
12:c6:132:ILE:HD11	14:k6:10:ALA:HB2	1.68	0.75
12:c7:74:THR:H	14:i2:9:VAL:HG21	1.52	0.75
12:c8:152:ALA:HB2	14:e5:430:MET:CE	2.16	0.75
14:d0:72:VAL:HG11	14:d0:74:PHE:HZ	1.47	0.75
14:e1:260:LYS:HE2	14:e1:360:PRO:HA	1.68	0.75
14:f9:373:ARG:HA	14:f9:373:ARG:HH11	1.52	0.75
14:j7:67:ILE:HG21	14:j7:208:TYR:CE2	2.21	0.75
8:a8:124:LEU:CD1	11:c3:65:GLY:H	1.99	0.75
12:c6:41:GLN:CB	14:f5:170:TYR:CZ	2.70	0.75
12:c7:166:LEU:CB	14:h3:373:ARG:HH21	2.00	0.75
13:c9:19:TYR:HE1	14:g2:225:GLU:OE1	1.70	0.75
14:d8:27:PHE:CD1	14:j4:66:LEU:CD1	2.69	0.75
14:f2:67:ILE:HG22	14:f2:208:TYR:CD2	2.22	0.75
14:k1:96:VAL:CG2	14:k1:177:PHE:CE2	2.70	0.75
3:a3:266:LEU:HD13	14:d1:28:LYS:HG2	1.69	0.75
9:b0:186:ALA:O	9:b0:188:VAL:HG13	1.87	0.75
12:c8:75:THR:HG21	14:f4:14:GLN:CD	2.11	0.75
14:e1:67:ILE:CG2	14:e1:208:TYR:CE1	2.70	0.75
14:e6:65:ASP:O	14:e6:66:LEU:HG	1.86	0.75
14:h6:223:PRO:HB3	14:h6:427:MET:HG2	1.67	0.75
14:l0:330:LYS:HE2	14:l0:401:GLU:OE2	1.86	0.75
14:d3:99:GLU:OE2	14:d3:102:GLY:CA	2.32	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d8:27:PHE:HE1	14:j4:209:ILE:HG12	1.51	0.75
14:d8:67:ILE:CG2	14:d8:208:TYR:CD2	2.70	0.75
14:e1:330:LYS:HE2	14:e1:401:GLU:OE2	1.86	0.75
14:h4:209:ILE:HD13	14:k2:27:PHE:HE1	1.03	0.75
14:h7:256:ASN:CG	14:h7:437:ASN:OD1	2.30	0.75
14:j8:329:ARG:CZ	14:j8:333:TYR:CD2	2.70	0.75
9:a9:166:GLN:NE2	14:i5:256:ASN:ND2	2.35	0.74
9:b7:155:LEU:HD21	14:j5:220:ALA:HB2	1.69	0.74
14:d2:27:PHE:HD1	14:i8:209:ILE:HD13	1.47	0.74
14:k1:266:PHE:HZ	14:k1:381:LEU:HD13	1.51	0.74
14:k4:188:TYR:CD1	14:k4:193:ALA:HA	2.22	0.74
2:a1:150:LEU:HD13	14:d2:425:ARG:NH1	2.03	0.74
4:a4:141:PRO:O	4:a4:142:MET:C	2.30	0.74
14:d4:26:PHE:CE2	14:j0:34:TYR:CB	2.70	0.74
14:g9:211:LEU:HD22	14:g9:215:GLU:CD	2.12	0.74
14:j3:60:ILE:CD1	14:j3:173:VAL:HB	2.18	0.74
4:a4:155:SER:C	4:a4:157:PRO:HA	2.11	0.74
9:b2:166:GLN:CB	14:j7:375:ASP:OD2	2.29	0.74
12:c6:79:ARG:HH22	14:l1:437:ASN:ND2	1.82	0.74
14:g5:211:LEU:O	9:l5:178:ARG:NH1	2.21	0.74
14:k2:188:TYR:CD1	14:k2:193:ALA:HA	2.23	0.74
12:c6:129:ARG:HH21	14:f0:376:ASN:ND2	1.85	0.74
14:e0:67:ILE:HG22	14:e0:208:TYR:CD2	2.22	0.74
14:e1:211:LEU:HD22	14:e1:215:GLU:CD	2.13	0.74
14:i2:256:ASN:ND2	14:i2:257:HIS:CD2	2.54	0.74
14:j1:428:SER:O	9:l5:191:TRP:CH2	2.40	0.74
14:j6:188:TYR:CD2	14:j6:193:ALA:HA	2.21	0.74
14:k6:175:LEU:HD13	14:k6:177:PHE:HZ	1.53	0.74
3:a3:246:LEU:HD22	14:i7:32:ARG:HD2	1.67	0.74
10:b6:348:SER:HB3	14:l2:103:GLN:HB2	1.69	0.74
14:d6:121:ARG:NH1	14:d6:129:TYR:CE1	2.55	0.74
14:g1:60:ILE:CD1	14:g1:165:LEU:CD2	2.66	0.74
14:h0:33:ARG:HD2	14:j8:20:GLY:O	1.88	0.74
14:h5:60:ILE:CD1	14:h5:165:LEU:CD2	2.65	0.74
9:b4:191:TRP:CD1	14:g8:432:GLY:N	2.55	0.74
9:b4:199:ASN:CB	14:d9:373:ARG:HH22	1.99	0.74
12:c6:70:VAL:N	14:f6:432:GLY:HA2	2.02	0.74
14:f8:60:ILE:HD11	14:f8:165:LEU:CD2	2.17	0.74
14:h6:11:TYR:CE1	14:h6:15:ASP:CB	2.71	0.74
14:h7:114:ARG:NH2	14:h7:117:ASP:CB	2.49	0.74
10:b6:318:TYR:H	14:l3:5:LEU:HD21	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c6:56:MET:O	14:f5:169:GLN:HG3	1.86	0.74
12:c7:109:MET:HE2	14:k8:220:ALA:HB3	1.68	0.74
14:d8:27:PHE:CD1	14:j4:66:LEU:HD12	2.21	0.74
14:k3:260:LYS:HE2	14:k3:360:PRO:O	1.87	0.74
14:k5:103:GLN:OE1	14:k5:433:LEU:N	2.21	0.74
2:a1:154:LEU:CD1	3:a2:284:TYR:CE1	2.70	0.74
14:e2:188:TYR:CD2	14:e2:193:ALA:HA	2.23	0.74
14:e4:260:LYS:HD2	14:e4:357:ALA:CB	2.18	0.74
14:e8:175:LEU:HD13	14:e8:177:PHE:HZ	1.52	0.74
14:f6:329:ARG:CZ	14:f6:333:TYR:CD2	2.71	0.74
14:g1:306:TYR:HE2	14:g1:346:VAL:HG22	1.52	0.74
14:i4:90:GLU:OE1	14:i4:114:ARG:CA	2.36	0.74
2:a1:147:ASN:CB	3:a2:201:GLY:C	2.61	0.74
11:c4:9:ALA:HB3	14:h9:170:TYR:CD1	2.22	0.74
12:c6:149:LEU:HD22	14:k2:169:GLN:CB	2.18	0.74
14:d1:209:ILE:CG2	14:f9:27:PHE:CZ	2.70	0.74
14:g3:90:GLU:OE1	14:g3:114:ARG:CA	2.36	0.74
14:h1:329:ARG:NH2	14:h1:333:TYR:CE2	2.56	0.74
14:j3:211:LEU:HD22	14:j3:215:GLU:CD	2.13	0.74
9:a9:165:THR:OG1	14:i5:372:SER:HB3	1.88	0.74
12:c6:96:SER:OG	14:i4:65:ASP:HA	1.88	0.74
12:c7:69:VAL:HG21	14:i3:430:MET:HE3	1.67	0.74
14:d5:114:ARG:NH1	14:d5:118:ALA:HB2	2.02	0.74
14:g1:260:LYS:HE2	14:g1:360:PRO:O	1.87	0.74
2:a1:154:LEU:HA	3:a2:284:TYR:CE2	2.23	0.73
9:b1:172:ASN:HD21	14:j0:172:GLU:HA	1.50	0.73
9:b2:160:TRP:HE1	14:e0:171:HIS:HE1	1.32	0.73
10:b6:183:ASN:N	10:b6:183:ASN:OD1	2.19	0.73
11:c5:26:LEU:HD13	14:h8:373:ARG:HD3	1.69	0.73
12:c7:24:VAL:CG2	14:l0:16:VAL:HG21	2.17	0.73
13:c9:150:ARG:HH11	14:d1:5:LEU:HD21	1.52	0.73
14:j0:60:ILE:CG2	14:j0:208:TYR:OH	2.35	0.73
9:b3:164:ASN:HD21	14:h0:9:VAL:HG11	1.51	0.73
9:b8:178:ARG:NH2	14:g6:216:ARG:HD2	2.03	0.73
14:d9:223:PRO:CB	14:d9:427:MET:HE3	2.16	0.73
14:e6:65:ASP:OD2	14:e6:216:ARG:NE	2.21	0.73
14:f0:67:ILE:HG21	14:f0:208:TYR:CE2	2.24	0.73
14:f9:260:LYS:CD	14:f9:421:TYR:OH	2.35	0.73
14:j7:226:TYR:CE1	14:j7:426:ILE:HD13	2.22	0.73
9:b7:154:PHE:HE2	14:j5:169:GLN:HE21	1.36	0.73
9:b7:165:THR:HG21	14:j4:14:GLN:CG	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f7:260:LYS:HD2	14:f7:357:ALA:CB	2.18	0.73
14:h0:121:ARG:NH1	14:h0:129:TYR:CZ	2.57	0.73
14:i0:209:ILE:CG1	14:k8:27:PHE:CE1	2.66	0.73
14:i4:114:ARG:NH2	14:i4:117:ASP:CB	2.49	0.73
14:j1:373:ARG:HH11	14:j1:373:ARG:HA	1.52	0.73
14:k3:260:LYS:CE	14:k3:360:PRO:O	2.36	0.73
9:b3:161:ILE:O	14:g9:436:ALA:HB2	1.88	0.73
12:c7:102:GLY:O	14:k8:169:GLN:HB3	1.88	0.73
14:e0:187:ASN:ND2	14:e0:188:TYR:CE1	2.57	0.73
14:g7:105:ILE:HG23	14:g7:433:LEU:HD21	1.70	0.73
14:g9:14:GLN:HG2	14:j7:435:TYR:CD1	2.24	0.73
14:i7:260:LYS:HD3	14:i7:421:TYR:OH	1.88	0.73
14:j3:99:GLU:OE2	14:j3:102:GLY:HA2	1.88	0.73
11:c4:9:ALA:HB3	14:h9:170:TYR:CG	2.23	0.73
12:c6:85:PHE:CD2	14:f6:375:ASP:CB	2.65	0.73
14:f0:60:ILE:HD12	14:f0:165:LEU:HD21	1.69	0.73
14:g4:206:VAL:HB	14:g4:208:TYR:CE1	2.24	0.73
14:i1:260:LYS:CD	14:i1:421:TYR:CE1	2.71	0.73
3:a2:218:PRO:O	14:d1:428:SER:HA	1.89	0.73
4:a4:109:VAL:HG22	4:a4:136:VAL:CG2	2.19	0.73
12:c6:117:ARG:CZ	14:f1:5:LEU:HD21	2.17	0.73
12:c7:137:PHE:CE2	14:k1:436:ALA:HB1	2.23	0.73
12:c7:158:ALA:CB	14:e5:5:LEU:HD13	2.18	0.73
14:d8:17:TYR:CZ	14:g6:227:LEU:HB2	2.22	0.73
14:h3:60:ILE:CD1	14:h3:165:LEU:CD2	2.66	0.73
14:h6:260:LYS:HD2	14:h6:357:ALA:CB	2.18	0.73
14:j9:260:LYS:CE	14:j9:360:PRO:C	2.61	0.73
14:k3:260:LYS:CE	14:k3:360:PRO:C	2.61	0.73
14:l1:114:ARG:NH2	14:l1:117:ASP:OD2	2.22	0.73
12:c7:69:VAL:CG2	14:i3:430:MET:HE3	2.18	0.73
14:f2:114:ARG:HH21	14:f2:117:ASP:CB	2.01	0.73
14:j0:99:GLU:OE2	14:j0:102:GLY:CA	2.36	0.73
14:k1:96:VAL:HG21	14:k1:177:PHE:CE2	2.24	0.73
14:k7:329:ARG:CZ	14:k7:333:TYR:CE1	2.72	0.73
1:a0:5:SER:O	1:a0:8:GLN:HG2	1.89	0.73
9:b7:183:ILE:HD11	14:i9:220:ALA:O	1.88	0.73
14:d8:27:PHE:HE1	14:j4:209:ILE:CG1	2.02	0.73
14:f8:35:THR:CG2	14:f8:215:GLU:OE2	2.36	0.73
14:g2:188:TYR:CD2	14:g2:193:ALA:HA	2.24	0.73
14:j7:206:VAL:HB	14:j7:208:TYR:CE1	2.23	0.73
9:b5:191:TRP:HE1	14:i9:432:GLY:N	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:299:TYR:CE1	14:k5:14:GLN:NE2	2.55	0.73
11:c5:60:LEU:HD21	14:e7:220:ALA:HB1	1.71	0.73
14:d0:27:PHE:HE1	14:i6:209:ILE:CD1	2.00	0.73
14:i2:211:LEU:HD22	14:i2:215:GLU:CD	2.14	0.73
14:j1:430:MET:SD	9:l5:191:TRP:HE3	2.11	0.73
14:j9:260:LYS:CE	14:j9:360:PRO:O	2.37	0.73
14:j9:260:LYS:HE2	14:j9:360:PRO:O	1.89	0.73
8:a8:124:LEU:HD11	11:c3:65:GLY:H	1.53	0.73
10:b6:302:ASN:OD1	14:e9:425:ARG:CD	2.35	0.73
14:d9:17:TYR:HE2	14:g7:227:LEU:CG	2.01	0.73
14:g4:182:GLN:HB2	14:g4:188:TYR:CD2	2.24	0.73
14:h4:215:GLU:OE1	14:h4:218:ARG:NH2	2.22	0.73
14:h7:114:ARG:HH21	14:h7:117:ASP:CB	2.00	0.73
14:j0:188:TYR:CD1	14:j0:193:ALA:HA	2.24	0.73
14:j8:211:LEU:HD22	14:j8:215:GLU:OE1	1.89	0.73
10:b6:341:GLY:CA	14:l2:169:GLN:O	2.37	0.72
14:f3:260:LYS:HG2	14:f3:421:TYR:HE1	1.51	0.72
14:g9:158:THR:CG2	14:g9:363:ARG:CD	2.67	0.72
14:h3:60:ILE:HD11	14:h3:173:VAL:HB	1.69	0.72
14:i7:99:GLU:CD	14:i7:104:ARG:HH12	1.95	0.72
3:a2:199:ALA:O	3:a2:285:GLY:CA	2.36	0.72
9:b8:181:PRO:HG2	14:g6:220:ALA:CB	2.19	0.72
12:c6:154:THR:HG21	14:k2:212:ASP:HA	1.71	0.72
12:c7:33:TYR:HB2	14:f4:433:LEU:O	1.89	0.72
12:c8:104:GLY:HA3	14:f2:170:TYR:CD2	2.24	0.72
14:i0:188:TYR:CD1	14:i0:193:ALA:HA	2.23	0.72
14:l3:329:ARG:CZ	14:l3:333:TYR:CD1	2.72	0.72
11:c4:9:ALA:CB	14:h9:170:TYR:CD1	2.72	0.72
14:i3:188:TYR:CD1	14:i3:193:ALA:HA	2.25	0.72
4:a4:146:ASN:CB	4:a4:153:GLY:O	2.37	0.72
10:b6:291:ARG:HD2	14:k3:256:ASN:OD1	1.90	0.72
14:d7:121:ARG:NH2	14:d7:129:TYR:CE1	2.57	0.72
14:d8:27:PHE:CE1	14:j4:209:ILE:HG12	2.24	0.72
14:e1:60:ILE:HD11	14:e1:165:LEU:HD21	1.70	0.72
14:f1:27:PHE:CE1	14:k7:209:ILE:CG1	2.66	0.72
14:h4:215:GLU:HB2	14:h4:218:ARG:HH21	1.55	0.72
14:h7:145:LYS:CG	14:h7:147:PHE:CZ	2.73	0.72
14:k5:100:ILE:HB	14:k5:105:ILE:CD1	2.16	0.72
14:k9:65:ASP:CG	14:k9:166:ILE:HG21	2.13	0.72
14:l3:260:LYS:HG2	14:l3:421:TYR:HE1	1.53	0.72
14:d4:22:PRO:HA	14:j0:33:ARG:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f0:211:LEU:HD22	14:f0:215:GLU:CD	2.13	0.72
14:g3:99:GLU:OE2	14:g3:102:GLY:CA	2.29	0.72
14:g4:17:TYR:CE2	14:j2:423:VAL:HG21	2.24	0.72
14:h6:114:ARG:HH21	14:h6:117:ASP:HB3	1.52	0.72
14:k9:260:LYS:CD	14:k9:421:TYR:CE1	2.72	0.72
3:a2:233:MET:HE1	14:d0:21:ASN:ND2	2.05	0.72
3:a2:246:LEU:CD2	14:i6:364:GLN:CD	2.63	0.72
3:a2:262:GLU:OE2	14:i6:30:VAL:HG11	1.89	0.72
9:b5:191:TRP:NE1	14:i9:431:GLY:HA2	2.02	0.72
10:b6:206:PRO:HB3	14:d5:12:GLY:C	2.14	0.72
11:c3:15:ASP:OD1	14:h2:5:LEU:HD21	1.89	0.72
14:f4:219:PHE:HE1	14:f4:226:TYR:OH	1.72	0.72
14:f4:260:LYS:HB3	14:f4:421:TYR:HE1	1.54	0.72
14:h6:60:ILE:HD12	14:h6:67:ILE:HD13	1.72	0.72
14:j0:171:HIS:HD2	14:j0:430:MET:HG2	1.54	0.72
14:k1:260:LYS:NZ	14:k1:357:ALA:CB	2.47	0.72
10:b6:247:LYS:HB2	14:j3:170:TYR:O	1.89	0.72
12:c6:77:ALA:O	14:l1:373:ARG:NH1	2.23	0.72
12:c8:115:LEU:HD21	14:f2:431:GLY:CA	2.20	0.72
14:g5:182:GLN:HB2	14:g5:188:TYR:CD2	2.24	0.72
14:k1:206:VAL:HB	14:k1:208:TYR:CE1	2.25	0.72
14:l1:114:ARG:HH21	14:l1:117:ASP:CB	1.99	0.72
5:a5:53:TYR:O	10:b6:209:ALA:N	2.21	0.72
13:c9:75:PHE:HE1	9:l5:141:PHE:CE1	2.04	0.72
14:g8:4:GLY:HA2	14:j6:325:ARG:NH1	2.05	0.72
14:g9:60:ILE:HD11	14:g9:165:LEU:HD21	1.72	0.72
14:h3:17:TYR:HE2	14:k1:435:TYR:HH	1.38	0.72
12:c6:106:VAL:HG21	14:k7:170:TYR:OH	1.90	0.72
12:c7:24:VAL:HG23	14:l0:16:VAL:HG11	1.71	0.72
12:c7:78:CYS:CB	12:c7:84:GLY:HA3	2.20	0.72
14:d6:114:ARG:NH2	14:d6:117:ASP:OD2	2.23	0.72
14:d7:188:TYR:CD1	14:d7:193:ALA:HA	2.25	0.72
14:e8:252:ARG:CD	14:h7:252:ARG:HG2	2.18	0.72
14:i1:260:LYS:HD3	14:i1:421:TYR:CE1	2.25	0.72
14:j1:260:LYS:CE	14:j1:421:TYR:CZ	2.72	0.72
14:k5:105:ILE:CG1	14:k5:433:LEU:HD21	2.19	0.72
14:k5:206:VAL:HB	14:k5:208:TYR:CE2	2.25	0.72
14:f2:60:ILE:HD11	14:f2:165:LEU:HD21	1.70	0.72
14:g1:306:TYR:CE2	14:g1:346:VAL:HG22	2.24	0.72
14:i4:90:GLU:OE1	14:i4:114:ARG:N	2.23	0.72
14:i8:260:LYS:NZ	14:i8:366:SER:OG	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k5:230:GLN:NE2	14:k5:433:LEU:CD1	2.53	0.72
1:a0:11:LEU:HD11	1:a0:51:LEU:HD11	1.71	0.71
4:a4:108:PHE:CE1	4:a4:135:LEU:CD2	2.73	0.71
4:a4:242:TRP:HA	4:a4:242:TRP:HE3	1.51	0.71
14:e3:188:TYR:CD2	14:e3:193:ALA:HA	2.25	0.71
14:f3:211:LEU:HD13	14:f3:215:GLU:HG2	1.72	0.71
14:k9:65:ASP:CB	14:k9:166:ILE:HG21	2.19	0.71
12:c6:136:SER:CB	14:k2:434:ALA:O	2.38	0.71
12:c6:162:THR:HG22	14:k3:14:GLN:OE1	1.90	0.71
14:h6:206:VAL:HB	14:h6:208:TYR:CE1	2.24	0.71
14:j6:329:ARG:CZ	14:j6:333:TYR:CD2	2.74	0.71
10:b6:252:GLN:NE2	14:j3:103:GLN:CD	2.48	0.71
9:c0:192:MET:N	14:g4:433:LEU:O	2.21	0.71
14:f2:211:LEU:HD22	14:f2:215:GLU:CD	2.14	0.71
14:g5:330:LYS:HE2	14:g5:401:GLU:OE2	1.90	0.71
14:j1:329:ARG:CZ	14:j1:333:TYR:CE1	2.73	0.71
14:j7:105:ILE:HA	14:j7:433:LEU:HD11	1.72	0.71
10:b6:252:GLN:HE21	14:j3:103:GLN:NE2	1.88	0.71
14:e1:206:VAL:HB	14:e1:208:TYR:CE2	2.25	0.71
14:f1:188:TYR:CD1	14:f1:193:ALA:HA	2.25	0.71
14:f5:425:ARG:NH2	14:l1:17:TYR:OH	2.24	0.71
14:f7:320:LEU:HD13	14:f7:374:ILE:CD1	2.18	0.71
9:b8:160:TRP:CZ3	14:g1:103:GLN:HB2	2.24	0.71
14:d7:26:PHE:CZ	14:g5:366:SER:HA	2.25	0.71
14:e4:252:ARG:HD3	14:j9:252:ARG:HD3	1.71	0.71
14:g8:67:ILE:CG2	14:g8:208:TYR:CD1	2.73	0.71
14:h7:114:ARG:NH2	14:h7:117:ASP:OD2	2.24	0.71
14:j7:188:TYR:CD2	14:j7:193:ALA:HA	2.25	0.71
14:l1:90:GLU:OE1	14:l1:114:ARG:N	2.24	0.71
12:c6:59:SER:HB2	14:f5:169:GLN:CD	2.15	0.71
12:c7:85:PHE:HD2	14:i3:375:ASP:HB2	1.51	0.71
14:e1:325:ARG:NH1	14:j7:4:GLY:HA2	2.05	0.71
14:e5:329:ARG:NH1	14:e5:333:TYR:CE1	2.58	0.71
14:g0:114:ARG:NH1	14:g0:118:ALA:HB2	2.04	0.71
12:c7:78:CYS:HB2	12:c7:84:GLY:HA3	1.73	0.71
12:c7:81:SER:O	12:c7:81:SER:OG	2.08	0.71
14:g7:226:TYR:CE1	14:g7:426:ILE:HD13	2.25	0.71
14:i9:188:TYR:CD1	14:i9:193:ALA:HA	2.25	0.71
14:k1:158:THR:HB	14:k1:363:ARG:CZ	2.19	0.71
2:a1:182:PHE:HZ	14:i6:431:GLY:O	1.74	0.71
9:b1:154:PHE:CD1	14:d7:225:GLU:CD	2.64	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e9:329:ARG:NH1	14:e9:333:TYR:CE2	2.58	0.71
14:g1:260:LYS:HB2	14:g1:421:TYR:CE1	2.25	0.71
14:h6:60:ILE:CD1	14:h6:165:LEU:HD21	2.21	0.71
14:k1:67:ILE:HG21	14:k1:208:TYR:CE2	2.25	0.71
14:k9:65:ASP:HB3	14:k9:166:ILE:HD13	1.72	0.71
14:l3:67:ILE:CG2	14:l3:208:TYR:CD1	2.73	0.71
9:b4:166:GLN:OE1	14:d9:435:TYR:CE1	2.44	0.71
14:f7:260:LYS:NZ	14:f7:366:SER:OG	2.24	0.71
14:h5:329:ARG:CZ	14:h5:333:TYR:CD2	2.74	0.71
14:h6:223:PRO:HB3	14:h6:427:MET:HE3	1.73	0.71
14:i8:8:LEU:HD12	14:i8:9:VAL:N	2.06	0.71
14:j0:100:ILE:CD1	14:j0:105:ILE:HD13	2.20	0.71
14:j8:265:ASN:CG	14:j8:275:TYR:HE1	1.99	0.71
9:b4:170:LEU:CD2	14:d9:373:ARG:CA	2.69	0.71
14:e9:67:ILE:HG21	14:e9:208:TYR:CE2	2.26	0.71
14:h1:114:ARG:NE	14:h1:114:ARG:HA	2.06	0.71
14:j7:114:ARG:NH2	14:j7:117:ASP:OD2	2.24	0.71
5:a5:176:ASN:ND2	14:g3:427:MET:CA	2.54	0.70
12:c6:145:ILE:HD11	14:k2:170:TYR:CD2	2.26	0.70
12:c7:56:MET:SD	14:i3:170:TYR:CE1	2.83	0.70
14:d7:33:ARG:HD2	14:g5:20:GLY:O	1.91	0.70
14:e8:252:ARG:HD3	14:h7:252:ARG:CG	2.18	0.70
14:g3:90:GLU:OE1	14:g3:114:ARG:N	2.24	0.70
14:g4:182:GLN:CB	14:g4:188:TYR:CD2	2.74	0.70
14:i4:114:ARG:NH2	14:i4:117:ASP:OD2	2.24	0.70
14:j3:67:ILE:HG22	14:j3:208:TYR:CD2	2.26	0.70
14:l3:260:LYS:CD	14:l3:421:TYR:CZ	2.74	0.70
12:c8:104:GLY:CA	14:f2:430:MET:HE3	2.20	0.70
12:c8:133:ASP:CB	14:h2:14:GLN:NE2	2.53	0.70
14:e9:206:VAL:HB	14:e9:208:TYR:CE1	2.27	0.70
14:g7:182:GLN:HB2	14:g7:188:TYR:CD1	2.26	0.70
2:a1:134:ASP:OD2	3:a2:237:ASN:CB	2.40	0.70
10:b6:193:THR:HG21	14:g3:425:ARG:HH11	1.53	0.70
9:c1:192:MET:O	9:c1:193:MET:O	2.09	0.70
12:c7:147:VAL:CG2	14:h9:170:TYR:CZ	2.74	0.70
14:e4:260:LYS:NZ	14:e4:366:SER:OG	2.23	0.70
14:f7:114:ARG:NE	14:f7:114:ARG:HA	2.06	0.70
14:g6:209:ILE:HG23	14:j4:27:PHE:CZ	2.26	0.70
14:h7:114:ARG:HA	14:h7:114:ARG:NE	2.07	0.70
14:i5:17:TYR:OH	14:l3:425:ARG:NH2	2.24	0.70
14:j7:114:ARG:NE	14:j7:114:ARG:HA	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:l1:260:LYS:HB2	14:l1:421:TYR:HE1	1.55	0.70
3:a3:233:MET:SD	14:i7:24:ILE:CD1	2.80	0.70
8:a8:116:GLU:OE2	8:a8:118:TYR:HE1	1.75	0.70
9:b3:155:LEU:HD11	14:e2:166:ILE:HD11	0.75	0.70
10:b6:247:LYS:CB	14:j3:170:TYR:O	2.38	0.70
14:f8:306:TYR:HE2	14:f8:346:VAL:HG22	1.56	0.70
14:g1:260:LYS:CE	14:g1:360:PRO:C	2.65	0.70
14:g6:60:ILE:CG2	14:g6:208:TYR:OH	2.39	0.70
14:h9:96:VAL:HG22	14:h9:177:PHE:HD2	1.56	0.70
14:k9:65:ASP:CA	14:k9:166:ILE:CG2	2.68	0.70
3:a2:246:LEU:HD23	14:i6:364:GLN:NE2	2.05	0.70
3:a3:246:LEU:CD2	14:i7:32:ARG:NE	2.53	0.70
9:b0:192:MET:SD	14:l3:103:GLN:NE2	2.64	0.70
10:b6:187:TYR:CD2	14:g3:170:TYR:CD1	2.79	0.70
14:d0:175:LEU:HD13	14:d0:177:PHE:CZ	2.24	0.70
14:i6:60:ILE:HD12	14:i6:165:LEU:CD2	2.11	0.70
2:a1:153:ASN:ND2	2:a1:155:ASP:OD2	2.24	0.70
2:a1:185:PHE:CE2	14:i6:425:ARG:HB3	2.26	0.70
14:d5:182:GLN:HB2	14:d5:188:TYR:CD2	2.27	0.70
14:e7:365:PRO:HB2	14:h5:34:TYR:HE1	1.57	0.70
14:j3:219:PHE:HE1	14:j3:226:TYR:OH	1.75	0.70
9:b2:175:TYR:HD1	14:e0:321:ASN:C	2.00	0.70
10:b6:214:PHE:O	14:d6:62:ARG:HG3	1.92	0.70
13:c9:13:PHE:CD2	9:l5:148:ASN:O	2.44	0.70
14:f8:175:LEU:HD13	14:f8:177:PHE:CZ	2.23	0.70
14:k6:252:ARG:NH1	14:k6:253:LEU:C	2.49	0.70
9:b1:156:THR:HG21	14:d7:425:ARG:HD3	1.72	0.70
9:c1:165:THR:HB	14:e9:14:GLN:HE21	1.56	0.70
12:c6:33:TYR:OH	14:f5:427:MET:CE	2.40	0.70
14:f2:114:ARG:NE	14:f2:114:ARG:HA	2.06	0.70
14:i4:182:GLN:CB	14:i4:188:TYR:CD1	2.74	0.70
14:j2:114:ARG:HA	14:j2:114:ARG:NE	2.07	0.70
14:j5:266:PHE:CZ	14:j5:381:LEU:HD13	2.26	0.70
14:k7:329:ARG:NH1	14:k7:333:TYR:CE1	2.60	0.70
2:a1:169:THR:HG22	14:i6:221:GLN:HE22	1.55	0.70
11:c5:46:LEU:CB	14:f0:21:ASN:OD1	2.39	0.70
12:c6:136:SER:HB3	14:k2:434:ALA:O	1.91	0.70
14:e5:27:PHE:HE2	14:k1:209:ILE:CG1	2.03	0.70
14:e9:306:TYR:CE2	14:e9:346:VAL:HG22	2.27	0.70
14:f0:67:ILE:CG2	14:f0:208:TYR:CE2	2.75	0.70
14:f2:67:ILE:CG2	14:f2:208:TYR:CD2	2.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g6:209:ILE:CB	14:j4:27:PHE:CE2	2.75	0.70
14:k6:252:ARG:HD3	14:k6:253:LEU:N	2.07	0.70
14:k7:211:LEU:HD22	14:k7:215:GLU:CD	2.15	0.70
3:a2:193:TYR:OH	14:i8:21:ASN:N	2.25	0.70
4:a4:146:ASN:CB	4:a4:153:GLY:H	2.04	0.70
12:c7:85:PHE:CE2	14:i3:375:ASP:N	2.59	0.70
14:d0:17:TYR:OH	14:f8:425:ARG:NH2	2.25	0.70
14:d3:96:VAL:HG22	14:d3:177:PHE:HD1	1.57	0.70
14:d7:211:LEU:HD22	14:d7:215:GLU:CD	2.16	0.70
14:e0:96:VAL:HG22	14:e0:177:PHE:HD2	1.56	0.70
14:e4:260:LYS:NZ	14:e4:357:ALA:CB	2.53	0.70
14:f7:121:ARG:NH1	14:f7:129:TYR:CZ	2.59	0.70
14:h6:425:ARG:NE	14:h6:427:MET:SD	2.64	0.70
14:h9:96:VAL:CG1	14:h9:177:PHE:CE2	2.75	0.70
14:j1:372:SER:CA	9:l5:169:SER:OG	2.40	0.70
14:j8:60:ILE:CD1	14:j8:165:LEU:HD21	2.22	0.70
9:b7:164:ASN:HD21	14:d9:9:VAL:HG13	1.57	0.69
14:e0:90:GLU:OE1	14:e0:114:ARG:N	2.25	0.69
14:g3:90:GLU:OE1	14:g3:114:ARG:HA	1.92	0.69
14:g7:4:GLY:HA2	14:j5:325:ARG:NH1	2.06	0.69
14:h1:329:ARG:NH1	14:h1:333:TYR:CE2	2.60	0.69
14:i8:363:ARG:NE	14:i8:363:ARG:HA	2.06	0.69
9:b5:191:TRP:HZ3	9:b7:188:VAL:HG12	1.53	0.69
9:c0:165:THR:HG21	14:k4:435:TYR:CD1	2.26	0.69
11:c2:67:THR:HG22	14:k0:217:THR:CG2	2.21	0.69
12:c8:104:GLY:C	14:f2:430:MET:CE	2.65	0.69
14:d6:121:ARG:NH1	14:d6:129:TYR:CZ	2.60	0.69
14:e9:260:LYS:HE2	14:e9:360:PRO:C	2.16	0.69
14:f7:121:ARG:NH1	14:f7:129:TYR:CE1	2.59	0.69
14:f8:96:VAL:CG2	14:f8:177:PHE:HD1	2.04	0.69
14:f9:96:VAL:HG23	14:f9:177:PHE:CE2	2.27	0.69
14:i4:260:LYS:HD2	14:i4:357:ALA:CB	2.21	0.69
14:k0:188:TYR:CD1	14:k0:193:ALA:HA	2.26	0.69
14:k3:97:GLU:OE2	14:k3:104:ARG:NE	2.25	0.69
3:a3:231:LEU:HD21	14:i7:26:PHE:CD1	2.27	0.69
3:a3:271:GLY:HA2	14:f9:23:GLN:OE1	1.92	0.69
12:c6:56:MET:O	14:f5:169:GLN:HG2	1.92	0.69
12:c7:41:GLN:CB	14:f4:170:TYR:HD1	2.02	0.69
12:c8:133:ASP:CB	14:h2:14:GLN:HE22	2.05	0.69
14:e6:61:SER:C	14:e6:63:ASN:ND2	2.50	0.69
14:e9:67:ILE:CG2	14:e9:208:TYR:CE2	2.76	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g7:4:GLY:HA2	14:j5:325:ARG:CZ	2.22	0.69
14:h6:114:ARG:NE	14:h6:114:ARG:HA	2.07	0.69
14:k4:121:ARG:NH1	14:k4:129:TYR:CE1	2.61	0.69
2:a1:134:ASP:HB2	14:i6:218:ARG:NH1	2.07	0.69
3:a3:233:MET:SD	14:i7:24:ILE:HD13	2.32	0.69
9:b4:175:TYR:CD1	14:d9:321:ASN:CG	2.70	0.69
10:b6:324:GLY:O	14:f7:375:ASP:HA	1.92	0.69
12:c6:162:THR:HB	14:k3:14:GLN:HE22	1.56	0.69
12:c7:156:PHE:HA	14:e6:425:ARG:HH12	1.57	0.69
14:d9:260:LYS:HD3	14:d9:421:TYR:OH	1.91	0.69
14:f6:329:ARG:NH2	14:f6:333:TYR:CE2	2.59	0.69
14:h2:96:VAL:HG22	14:h2:177:PHE:CD2	2.27	0.69
14:f0:114:ARG:NE	14:f0:114:ARG:HA	2.08	0.69
14:g5:67:ILE:HG22	14:g5:208:TYR:CD1	2.27	0.69
14:g7:42:ILE:HG21	14:g7:63:ASN:ND2	2.07	0.69
14:l1:114:ARG:NE	14:l1:114:ARG:HA	2.07	0.69
3:a3:218:PRO:CG	14:d1:214:GLN:HG3	2.22	0.69
10:b6:233:LEU:HD21	14:d7:10:ALA:CA	2.20	0.69
13:c9:150:ARG:HE	14:i7:216:ARG:HD2	1.57	0.69
14:e3:99:GLU:CD	14:e3:176:TYR:CE1	2.71	0.69
14:f5:329:ARG:NH1	14:f5:333:TYR:CE2	2.60	0.69
14:f9:114:ARG:HA	14:f9:114:ARG:NE	2.08	0.69
14:g8:206:VAL:HB	14:g8:208:TYR:CE2	2.27	0.69
14:j7:105:ILE:HG23	14:j7:433:LEU:CD2	2.13	0.69
10:b6:339:PRO:HD2	14:l2:166:ILE:CD1	2.21	0.69
14:d4:26:PHE:HE2	14:j0:34:TYR:HB2	1.56	0.69
14:h5:182:GLN:HB2	14:h5:188:TYR:CD1	2.27	0.69
14:h6:60:ILE:HD11	14:h6:165:LEU:HD21	1.74	0.69
14:h8:211:LEU:O	14:h8:216:ARG:HD2	1.93	0.69
14:k5:423:VAL:O	14:k5:434:ALA:HB2	1.93	0.69
9:a9:161:ILE:HD11	14:i5:103:GLN:HE22	1.57	0.69
9:b5:192:MET:HE1	14:g7:103:GLN:HB2	1.74	0.69
9:b7:161:ILE:HD13	14:d8:103:GLN:OE1	1.92	0.69
12:c7:43:THR:HB	14:f4:170:TYR:OH	1.93	0.69
12:c8:108:ASN:ND2	14:f2:428:SER:HB3	2.08	0.69
12:c8:142:TRP:O	14:i0:216:ARG:NH1	2.25	0.69
12:c8:142:TRP:O	14:i0:216:ARG:NH2	2.25	0.69
14:e4:27:PHE:CE2	14:k0:209:ILE:CG2	2.74	0.69
14:f8:35:THR:HG21	14:f8:215:GLU:OE2	1.92	0.69
14:g3:114:ARG:HA	14:g3:114:ARG:NE	2.07	0.69
14:h6:306:TYR:HE2	14:h6:346:VAL:HG22	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i5:17:TYR:CD2	14:l3:423:VAL:HG21	2.27	0.69
14:k1:175:LEU:HB3	14:k1:177:PHE:CZ	2.28	0.69
14:l2:96:VAL:CG2	14:l2:177:PHE:CE1	2.76	0.69
9:b0:186:ALA:O	9:b0:188:VAL:CG1	2.41	0.69
10:b6:338:ASN:ND2	14:l2:62:ARG:HB3	2.08	0.69
12:c7:49:ALA:CB	14:i3:220:ALA:CB	2.56	0.69
12:c8:90:THR:HG21	14:f4:9:VAL:CB	2.23	0.69
14:e3:99:GLU:CD	14:e3:176:TYR:HE1	2.00	0.69
14:g6:99:GLU:OE2	14:g6:102:GLY:C	2.36	0.69
14:i4:114:ARG:NE	14:i4:114:ARG:HA	2.08	0.69
14:k8:329:ARG:CZ	14:k8:333:TYR:CD2	2.76	0.69
12:c8:81:SER:CB	14:f3:375:ASP:CG	2.65	0.69
14:f7:67:ILE:HG22	14:f7:208:TYR:CD2	2.28	0.69
14:j1:430:MET:CE	9:l5:191:TRP:CZ3	2.76	0.69
14:l3:211:LEU:HD22	14:l3:215:GLU:CD	2.17	0.69
2:a1:158:TYR:CE1	3:a2:231:LEU:CD1	2.75	0.68
10:b6:198:VAL:CG1	14:g3:373:ARG:HH11	2.05	0.68
9:c0:165:THR:HG23	14:k4:435:TYR:CD1	2.20	0.68
13:c9:42:HIS:HE1	9:l5:178:ARG:O	1.74	0.68
14:d8:206:VAL:HB	14:d8:208:TYR:CE1	2.27	0.68
14:e2:260:LYS:NZ	14:e2:362:GLY:O	2.26	0.68
14:f8:35:THR:CB	14:f8:215:GLU:CD	2.66	0.68
14:h6:223:PRO:CB	14:h6:427:MET:HG2	2.22	0.68
14:h7:145:LYS:HD3	14:h7:147:PHE:CZ	2.28	0.68
14:i2:256:ASN:ND2	14:i2:257:HIS:NE2	2.41	0.68
14:i6:67:ILE:HG22	14:i6:208:TYR:CD2	2.28	0.68
14:j7:329:ARG:NH2	14:j7:333:TYR:CE1	2.60	0.68
5:a5:210:TYR:CD1	13:c9:116:THR:HG21	2.27	0.68
9:a9:162:GLY:O	14:i5:436:ALA:HB2	1.93	0.68
9:b3:192:MET:CE	14:j8:103:GLN:NE2	2.55	0.68
9:c0:179:ALA:HA	9:c0:201:TYR:HD2	1.58	0.68
13:c9:98:THR:HG23	9:l5:185:LYS:O	1.92	0.68
14:d9:17:TYR:CZ	14:g7:227:LEU:HB2	2.28	0.68
14:h5:206:VAL:HG11	14:h5:208:TYR:CZ	2.28	0.68
14:i1:158:THR:CG2	14:i1:363:ARG:CD	2.69	0.68
14:k0:211:LEU:HD22	14:k0:215:GLU:CD	2.19	0.68
11:c4:14:SER:O	11:c4:16:THR:N	2.26	0.68
11:c5:26:LEU:HD13	14:h8:373:ARG:CD	2.23	0.68
14:f7:321:ASN:OD1	14:f7:375:ASP:HB3	1.93	0.68
14:g4:17:TYR:OH	14:j2:425:ARG:NH2	2.25	0.68
9:b3:161:ILE:HD11	14:h0:5:LEU:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:328:THR:HG22	10:b6:328:THR:O	1.93	0.68
12:c7:99:LEU:HD13	14:l1:169:GLN:CG	2.22	0.68
14:d2:219:PHE:HE1	14:d2:226:TYR:OH	1.76	0.68
14:d8:17:TYR:HE2	14:g6:227:LEU:CG	2.05	0.68
14:d8:114:ARG:NE	14:d8:114:ARG:HA	2.07	0.68
14:h1:114:ARG:HH21	14:h1:117:ASP:CB	2.03	0.68
14:h4:260:LYS:HD3	14:h4:421:TYR:CZ	2.27	0.68
14:i1:158:THR:CG2	14:i1:363:ARG:HD3	2.23	0.68
14:j3:60:ILE:HD12	14:j3:165:LEU:HD21	1.74	0.68
5:a5:176:ASN:HD21	14:g3:428:SER:H	1.39	0.68
9:b0:193:MET:O	14:l3:436:ALA:CB	2.41	0.68
9:b5:198:PRO:HG3	14:g7:170:TYR:CZ	2.20	0.68
10:b6:206:PRO:CB	14:d5:13:ALA:HA	2.24	0.68
10:b6:318:TYR:HH	14:l3:2:ALA:N	1.91	0.68
12:c6:108:ASN:CG	14:f0:428:SER:HB3	2.18	0.68
14:d1:346:VAL:HG22	14:f9:131:ARG:NH1	2.08	0.68
14:d6:114:ARG:HA	14:d6:114:ARG:NE	2.09	0.68
14:f4:90:GLU:OE1	14:f4:114:ARG:N	2.27	0.68
14:g4:265:ASN:CG	14:g4:275:TYR:HE1	2.02	0.68
14:g9:60:ILE:HD12	14:g9:165:LEU:HD21	1.74	0.68
14:g9:67:ILE:HG22	14:g9:208:TYR:CD2	2.29	0.68
14:j8:265:ASN:ND2	14:j8:275:TYR:HE1	1.91	0.68
14:k3:260:LYS:HB2	14:k3:421:TYR:CE1	2.29	0.68
2:a1:117:THR:HG22	14:d2:170:TYR:CD2	2.28	0.68
3:a3:234:ARG:NH1	14:i7:28:LYS:HG2	2.09	0.68
5:a5:199:PHE:CE1	14:d5:35:THR:HG22	2.28	0.68
9:b5:191:TRP:NE1	14:i9:432:GLY:N	2.41	0.68
13:c9:150:ARG:CZ	14:i7:216:ARG:HD2	2.24	0.68
14:f2:114:ARG:NH2	14:f2:117:ASP:CB	2.55	0.68
14:f3:20:GLY:O	14:k9:33:ARG:HD2	1.94	0.68
14:j4:182:GLN:HB2	14:j4:188:TYR:CD2	2.29	0.68
14:k3:175:LEU:HD13	14:k3:177:PHE:HZ	1.59	0.68
5:a5:62:THR:HG21	14:g3:425:ARG:NE	2.08	0.68
9:b7:202:GLN:HG3	14:j4:12:GLY:HA2	1.76	0.68
12:c6:154:THR:H	14:k2:213:THR:HG22	1.58	0.68
12:c7:56:MET:SD	14:i3:170:TYR:HD1	2.13	0.68
14:d9:223:PRO:HB3	14:d9:427:MET:HE3	1.75	0.68
14:g6:260:LYS:CE	14:g6:360:PRO:C	2.66	0.68
14:g9:219:PHE:HE1	14:g9:226:TYR:OH	1.76	0.68
14:i5:182:GLN:HB2	14:i5:188:TYR:CD1	2.29	0.68
14:j1:430:MET:HE3	9:l5:191:TRP:HZ3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k5:211:LEU:CD2	14:k5:215:GLU:OE2	2.40	0.68
5:a5:49:MET:HE2	14:d6:430:MET:SD	2.33	0.68
10:b6:193:THR:HG22	14:g3:425:ARG:HH11	1.59	0.68
12:c7:137:PHE:CZ	14:k1:436:ALA:HB1	2.29	0.68
14:i8:99:GLU:OE2	14:i8:102:GLY:CA	2.38	0.68
14:j1:88:PRO:HG3	14:j1:135:TRP:HZ3	1.56	0.68
2:a1:117:THR:HB	14:d2:169:GLN:CB	2.23	0.68
2:a1:134:ASP:OD2	3:a2:237:ASN:HB2	1.94	0.68
10:b6:314:LEU:CD2	14:i5:62:ARG:HB3	2.02	0.68
12:c6:162:THR:CG2	14:k3:14:GLN:OE1	2.41	0.68
14:e7:329:ARG:CZ	14:e7:333:TYR:CD2	2.77	0.68
14:j0:329:ARG:NH1	14:j0:333:TYR:CE2	2.62	0.68
9:b0:192:MET:N	14:l3:433:LEU:O	2.26	0.68
14:d4:26:PHE:CE2	14:j0:34:TYR:HB2	2.28	0.68
14:d7:121:ARG:NH1	14:d7:129:TYR:CZ	2.62	0.68
14:f6:376:ASN:OD1	14:k7:252:ARG:NH2	2.27	0.68
14:g3:188:TYR:CD2	14:g3:193:ALA:HA	2.29	0.68
14:j4:175:LEU:HD13	14:j4:177:PHE:HZ	1.59	0.68
14:j7:105:ILE:CG2	14:j7:433:LEU:HD21	2.13	0.68
14:j8:60:ILE:HD11	14:j8:173:VAL:HB	1.76	0.68
14:k7:363:ARG:NE	14:k7:363:ARG:HA	2.09	0.68
10:b6:323:ARG:O	14:f7:375:ASP:CB	2.42	0.67
12:c7:156:PHE:HE2	14:e6:427:MET:HE3	1.58	0.67
12:c8:99:LEU:HD12	14:l0:169:GLN:CB	2.24	0.67
14:d5:188:TYR:CD1	14:d5:193:ALA:HA	2.29	0.67
14:f0:11:TYR:CE2	14:f0:15:ASP:CB	2.77	0.67
14:f8:206:VAL:CG1	14:f8:208:TYR:CZ	2.77	0.67
14:i3:114:ARG:HA	14:i3:114:ARG:NE	2.08	0.67
14:j2:99:GLU:OE2	14:j2:102:GLY:HA2	1.94	0.67
14:j8:211:LEU:CD2	14:j8:215:GLU:OE2	2.41	0.67
3:a2:262:GLU:CD	14:i6:30:VAL:HG11	2.19	0.67
14:d1:99:GLU:OE2	14:d1:102:GLY:CA	2.33	0.67
14:d7:26:PHE:CE2	14:g5:366:SER:O	2.47	0.67
14:e0:182:GLN:HB2	14:e0:188:TYR:CD1	2.28	0.67
14:j5:211:LEU:HD22	14:j5:215:GLU:CD	2.19	0.67
10:b6:306:ILE:HG23	14:k6:166:ILE:HA	1.77	0.67
14:d2:27:PHE:CE1	14:i8:209:ILE:CG1	2.77	0.67
14:i2:256:ASN:OD1	14:i2:257:HIS:HD2	1.76	0.67
14:j3:280:ASN:OD1	14:j3:289:GLY:N	2.27	0.67
14:k6:265:ASN:CG	14:k6:275:TYR:HE1	2.02	0.67
2:a1:147:ASN:HB2	3:a2:201:GLY:CA	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a5:153:LEU:HD12	5:a5:153:LEU:N	2.10	0.67
5:a5:176:ASN:HD22	14:g3:427:MET:CB	2.07	0.67
9:b8:175:TYR:HB3	14:g6:63:ASN:ND2	2.10	0.67
14:h8:4:GLY:HA2	14:k6:325:ARG:CZ	2.24	0.67
14:j0:206:VAL:HB	14:j0:208:TYR:CE1	2.30	0.67
8:a8:144:TYR:HD1	8:a8:145:VAL:N	1.92	0.67
14:d8:4:GLY:HA2	14:g6:325:ARG:CZ	2.25	0.67
14:e6:33:ARG:HD2	14:h4:20:GLY:O	1.95	0.67
14:e6:182:GLN:HB2	14:e6:188:TYR:CD2	2.29	0.67
14:f4:35:THR:HG21	14:f4:215:GLU:OE1	1.93	0.67
14:i2:260:LYS:CD	14:i2:360:PRO:HA	2.20	0.67
14:i9:260:LYS:HD2	14:i9:357:ALA:CB	2.24	0.67
2:a1:169:THR:CG2	14:i6:221:GLN:NE2	2.55	0.67
5:a5:32:PHE:CE2	14:d6:427:MET:CE	2.73	0.67
12:c7:99:LEU:HD13	14:l1:169:GLN:CB	2.24	0.67
14:d4:97:GLU:OE1	14:g0:437:ASN:C	2.37	0.67
14:f2:260:LYS:HE3	14:f2:360:PRO:O	1.88	0.67
14:f3:188:TYR:CE2	14:f3:193:ALA:HB2	2.30	0.67
14:f5:188:TYR:CD1	14:f5:193:ALA:HA	2.29	0.67
14:h6:114:ARG:NH2	14:h6:117:ASP:OD2	2.27	0.67
14:i7:114:ARG:NH1	14:i7:118:ALA:HB2	2.09	0.67
12:c6:75:THR:HG21	14:f6:372:SER:OG	1.95	0.67
12:c8:112:SER:HB2	14:f2:430:MET:SD	2.35	0.67
13:c9:165:PHE:CE1	14:f9:432:GLY:O	2.48	0.67
14:d0:27:PHE:CZ	14:i6:209:ILE:HG23	2.29	0.67
14:f1:27:PHE:CZ	14:k7:209:ILE:HG23	2.27	0.67
14:f9:175:LEU:HD13	14:f9:177:PHE:CZ	2.24	0.67
14:g9:375:ASP:O	14:g9:375:ASP:OD1	2.12	0.67
14:h4:214:GLN:CB	14:h4:218:ARG:NH1	2.57	0.67
14:i8:188:TYR:CD2	14:i8:193:ALA:HA	2.30	0.67
14:j6:60:ILE:CG2	14:j6:208:TYR:OH	2.43	0.67
14:l2:188:TYR:CD1	14:l2:193:ALA:HA	2.30	0.67
14:l2:219:PHE:HE1	14:l2:226:TYR:OH	1.78	0.67
9:a9:177:LEU:HD23	14:f7:9:VAL:HG11	1.76	0.67
9:b4:191:TRP:HE1	14:g8:431:GLY:HA2	1.59	0.67
10:b6:252:GLN:HE21	14:j3:103:GLN:CG	2.08	0.67
12:c6:69:VAL:HG11	14:f6:430:MET:SD	2.35	0.67
12:c7:41:GLN:CB	14:f4:170:TYR:CE1	2.77	0.67
14:d9:427:MET:HE1	15:l4:47:TRP:CD2	2.29	0.67
14:e0:67:ILE:HG21	14:e0:208:TYR:CE2	2.29	0.67
14:e1:329:ARG:NH1	14:e1:333:TYR:CE2	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e4:252:ARG:HD3	14:j9:252:ARG:HD2	1.76	0.67
14:f4:169:GLN:OE1	14:f4:429:GLY:HA2	1.95	0.67
14:k1:158:THR:HG21	14:k1:363:ARG:CD	2.25	0.67
14:k3:260:LYS:HB2	14:k3:421:TYR:HE1	1.59	0.67
14:k4:211:LEU:HD22	14:k4:215:GLU:CD	2.19	0.67
14:l0:329:ARG:CZ	14:l0:333:TYR:CE2	2.78	0.67
9:b1:161:ILE:CG1	14:j3:16:VAL:HG21	2.25	0.67
9:c0:164:ASN:OD1	14:k4:437:ASN:HB3	1.94	0.67
11:c3:10:SER:CB	14:k9:170:TYR:HB3	2.25	0.67
12:c8:85:PHE:HE2	14:i2:375:ASP:CA	1.90	0.67
14:d2:211:LEU:HD13	14:d2:215:GLU:HG2	1.76	0.67
14:f2:114:ARG:NH2	14:f2:117:ASP:OD2	2.28	0.67
14:f4:166:ILE:O	14:f4:169:GLN:NE2	2.28	0.67
14:g3:114:ARG:NH2	14:g3:117:ASP:OD2	2.28	0.67
14:h6:60:ILE:HD11	14:h6:173:VAL:HB	1.77	0.67
14:h9:188:TYR:CD2	14:h9:193:ALA:HA	2.29	0.67
14:j2:182:GLN:HB2	14:j2:188:TYR:CD1	2.30	0.67
14:j7:67:ILE:CG2	14:j7:208:TYR:CE2	2.78	0.67
14:j8:265:ASN:CG	14:j8:275:TYR:CE1	2.73	0.67
14:k7:243:ALA:HA	14:k7:386:CYS:O	1.95	0.67
14:k9:329:ARG:CZ	14:k9:333:TYR:CD2	2.78	0.67
2:a1:150:LEU:HD13	14:d2:425:ARG:HH11	1.59	0.67
2:a1:166:GLN:NE2	14:d2:103:GLN:HB2	2.10	0.67
9:b5:191:TRP:NE1	14:i9:431:GLY:C	2.53	0.67
9:b7:154:PHE:CZ	14:j5:169:GLN:HG2	2.30	0.67
12:c6:138:ILE:HD11	14:k2:432:GLY:C	2.19	0.67
12:c7:99:LEU:HD13	14:l1:169:GLN:HG2	1.77	0.67
14:e1:260:LYS:HD2	14:e1:357:ALA:HB2	1.75	0.67
14:e3:258:PRO:HD2	14:e3:421:TYR:O	1.93	0.67
14:g1:61:SER:OG	14:g1:63:ASN:ND2	2.28	0.67
14:g8:17:TYR:CD2	14:j6:423:VAL:CG2	2.71	0.67
14:h5:60:ILE:HD12	14:h5:165:LEU:HD11	1.78	0.67
2:a1:158:TYR:CE1	3:a2:231:LEU:CG	2.77	0.66
3:a2:246:LEU:CD1	14:i6:364:GLN:HB2	2.26	0.66
14:f3:132:MET:HE1	14:k9:340:TYR:CD2	2.30	0.66
14:g5:67:ILE:CG2	14:g5:208:TYR:CD1	2.78	0.66
14:i4:90:GLU:OE1	14:i4:114:ARG:HA	1.95	0.66
14:j1:266:PHE:CZ	14:j1:381:LEU:HD13	2.24	0.66
14:k6:265:ASN:CG	14:k6:275:TYR:CE1	2.74	0.66
9:b4:170:LEU:HD23	14:d9:373:ARG:C	2.20	0.66
14:e5:252:ARG:NH1	14:j6:252:ARG:CD	2.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h9:337:VAL:HG21	14:k7:148:TYR:CD2	2.29	0.66
14:j3:67:ILE:CG2	14:j3:208:TYR:CD2	2.78	0.66
14:j7:60:ILE:HD11	14:j7:173:VAL:HB	1.76	0.66
14:k3:329:ARG:NH2	14:k3:333:TYR:CE2	2.63	0.66
2:a1:157:VAL:HB	3:a2:282:ILE:HG23	1.75	0.66
9:b4:175:TYR:CE1	14:d9:321:ASN:OD1	2.48	0.66
14:d3:182:GLN:HB2	14:d3:188:TYR:CD1	2.29	0.66
14:d8:33:ARG:HD2	14:g6:20:GLY:O	1.96	0.66
14:e3:329:ARG:NH1	14:e3:333:TYR:CE1	2.62	0.66
14:e4:28:LYS:HD2	14:k0:226:TYR:CE1	2.30	0.66
14:e8:211:LEU:HD22	14:e8:215:GLU:CD	2.21	0.66
14:f0:60:ILE:HG12	14:f0:173:VAL:O	1.94	0.66
14:f0:114:ARG:NH2	14:f0:117:ASP:OD2	2.28	0.66
14:i1:135:TRP:CE2	14:i1:147:PHE:HZ	2.14	0.66
14:k3:229:GLU:OE2	14:k3:363:ARG:NH2	2.28	0.66
14:l0:211:LEU:HD22	14:l0:215:GLU:CD	2.20	0.66
9:b7:192:MET:HE3	14:i9:101:GLY:C	2.21	0.66
12:c6:95:THR:HG21	14:i4:210:PHE:CD2	2.31	0.66
14:e3:188:TYR:CE2	14:e3:193:ALA:HB2	2.31	0.66
14:f7:114:ARG:NH2	14:f7:117:ASP:OD2	2.27	0.66
14:g3:90:GLU:HG2	14:g3:272:TYR:OH	1.95	0.66
14:h7:256:ASN:ND2	14:h7:437:ASN:ND2	2.44	0.66
14:h8:210:PHE:HB2	14:k6:8:LEU:HD11	1.77	0.66
14:i3:33:ARG:HD2	14:l1:20:GLY:O	1.95	0.66
14:l0:188:TYR:CD2	14:l0:193:ALA:HA	2.30	0.66
9:b2:175:TYR:HB3	14:e0:321:ASN:O	1.96	0.66
10:b6:320:ASP:CB	14:k6:435:TYR:CD1	2.78	0.66
11:c2:26:LEU:HD21	14:f2:13:ALA:N	2.00	0.66
12:c8:89:ASN:ND2	14:f3:435:TYR:CD1	2.47	0.66
14:e3:306:TYR:CE2	14:e3:346:VAL:HG22	2.30	0.66
14:e6:188:TYR:CD1	14:e6:193:ALA:HA	2.30	0.66
14:g4:105:ILE:CD1	14:g4:433:LEU:HD21	2.21	0.66
14:h7:135:TRP:CE2	14:h7:147:PHE:HZ	2.12	0.66
3:a2:246:LEU:HG	14:i6:364:GLN:HB2	1.78	0.66
10:b6:233:LEU:HD22	14:d7:9:VAL:CG2	2.16	0.66
12:c6:119:PHE:HE2	14:f0:436:ALA:CB	2.02	0.66
13:c9:150:ARG:NH2	14:i7:65:ASP:OD2	2.29	0.66
14:d1:209:ILE:CG2	14:f9:27:PHE:CE1	2.78	0.66
14:d4:211:LEU:HD22	14:d4:215:GLU:CD	2.20	0.66
14:e8:321:ASN:HB3	14:h7:437:ASN:CG	2.21	0.66
14:h5:329:ARG:NH2	14:h5:333:TYR:CE2	2.63	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j7:329:ARG:CZ	14:j7:333:TYR:CD1	2.79	0.66
14:l2:96:VAL:HG21	14:l2:177:PHE:CE1	2.31	0.66
9:b4:175:TYR:CE1	14:d9:375:ASP:HB2	2.31	0.66
10:b6:335:PRO:HD2	14:f6:5:LEU:HD11	1.77	0.66
9:c1:193:MET:HE2	14:e8:435:TYR:CZ	2.31	0.66
14:e0:209:ILE:CG2	14:g8:27:PHE:CE1	2.77	0.66
14:e1:260:LYS:CE	14:e1:360:PRO:HA	2.25	0.66
14:f3:14:GLN:HE21	14:i1:258:PRO:CD	2.00	0.66
14:h9:96:VAL:HG22	14:h9:177:PHE:CD2	2.31	0.66
14:i8:260:LYS:HZ2	14:i8:357:ALA:HB1	1.54	0.66
14:e0:206:VAL:HB	14:e0:208:TYR:CE1	2.31	0.66
14:e1:306:TYR:OH	14:e1:346:VAL:HG23	1.96	0.66
14:e7:306:TYR:CE2	14:e7:346:VAL:HG22	2.30	0.66
14:f8:182:GLN:HB2	14:f8:188:TYR:CD1	2.31	0.66
14:g4:67:ILE:HG22	14:g4:208:TYR:CD2	2.31	0.66
10:b6:306:ILE:CG2	14:k6:166:ILE:HA	2.25	0.66
14:f5:14:GLN:NE2	14:i3:258:PRO:CD	2.49	0.66
14:g0:252:ARG:HD3	14:g0:253:LEU:N	2.10	0.66
14:h2:96:VAL:HG22	14:h2:177:PHE:HD2	1.59	0.66
14:h6:260:LYS:CE	14:h6:357:ALA:CB	2.73	0.66
14:h6:260:LYS:HZ2	14:h6:357:ALA:CB	2.05	0.66
14:h9:226:TYR:CE1	14:h9:426:ILE:HD13	2.29	0.66
14:i0:209:ILE:HG23	14:k8:27:PHE:CZ	2.28	0.66
14:k3:329:ARG:CZ	14:k3:333:TYR:CD2	2.79	0.66
14:k5:265:ASN:CG	14:k5:275:TYR:CE1	2.74	0.66
9:b1:161:ILE:HD11	14:j3:16:VAL:HG11	1.77	0.66
9:b1:186:ALA:HB3	14:j0:428:SER:CB	2.26	0.66
9:b2:170:LEU:HD11	14:e0:373:ARG:HA	1.77	0.66
9:b4:170:LEU:HD23	14:d9:373:ARG:HA	1.77	0.66
14:e4:90:GLU:OE1	14:e4:114:ARG:N	2.29	0.66
14:h9:266:PHE:CZ	14:h9:381:LEU:HD13	2.28	0.66
14:j0:171:HIS:CD2	14:j0:430:MET:HG2	2.31	0.66
9:b4:175:TYR:CZ	14:d9:375:ASP:HB2	2.32	0.65
10:b6:243:THR:HG23	14:j3:169:GLN:C	2.19	0.65
10:b6:335:PRO:HD2	14:f6:5:LEU:HD21	1.78	0.65
10:b6:353:ASN:ND2	14:l2:436:ALA:H	1.94	0.65
9:b7:154:PHE:HZ	14:j5:169:GLN:HG2	1.61	0.65
12:c6:41:GLN:CB	14:f5:170:TYR:CD2	2.79	0.65
12:c8:95:THR:O	14:l0:166:ILE:HD13	1.96	0.65
14:d8:363:ARG:NE	14:d8:363:ARG:HA	2.11	0.65
14:f6:62:ARG:NH2	14:f6:172:GLU:CD	2.54	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h8:182:GLN:HB2	14:h8:188:TYR:CD1	2.30	0.65
14:l1:260:LYS:HB2	14:l1:421:TYR:CE1	2.31	0.65
5:a5:95:THR:HG23	5:a5:96:ASP:H	1.61	0.65
9:b1:178:ARG:HH11	14:j0:216:ARG:CD	2.04	0.65
9:b1:193:MET:CA	14:j0:430:MET:HE1	2.06	0.65
10:b6:353:ASN:HD21	14:l2:436:ALA:H	1.42	0.65
12:c6:51:TRP:HZ3	14:i4:5:LEU:HD11	1.61	0.65
14:d8:260:LYS:HD3	14:d8:421:TYR:OH	1.96	0.65
14:f8:60:ILE:HD11	14:f8:165:LEU:HD22	1.77	0.65
14:k4:329:ARG:CZ	14:k4:333:TYR:CD2	2.79	0.65
5:a5:176:ASN:HD21	14:g3:428:SER:N	1.92	0.65
9:b1:154:PHE:CD1	14:d7:225:GLU:OE2	2.46	0.65
10:b6:215:HIS:HB2	14:d6:62:ARG:CD	2.26	0.65
12:c7:74:THR:H	14:i2:9:VAL:CG2	2.08	0.65
12:c8:98:TYR:CE1	14:l0:172:GLU:CG	2.80	0.65
14:d8:67:ILE:HG21	14:d8:208:TYR:CE2	2.32	0.65
14:e9:260:LYS:HB2	14:e9:421:TYR:HE2	1.62	0.65
14:f1:373:ARG:HH21	14:k7:13:ALA:N	1.91	0.65
14:g4:265:ASN:CG	14:g4:275:TYR:CE1	2.75	0.65
14:j6:260:LYS:HE3	14:j6:360:PRO:O	1.96	0.65
9:a9:165:THR:OG1	14:i5:372:SER:CB	2.44	0.65
10:b6:324:GLY:O	14:f7:375:ASP:CA	2.45	0.65
14:e7:67:ILE:HG21	14:e7:208:TYR:HE2	1.61	0.65
14:f5:96:VAL:HG22	14:f5:177:PHE:CD2	2.30	0.65
14:f8:187:ASN:ND2	14:f8:188:TYR:CE1	2.64	0.65
14:f9:188:TYR:CD2	14:f9:193:ALA:HA	2.31	0.65
14:h0:329:ARG:CZ	14:h0:333:TYR:CD2	2.78	0.65
14:j5:188:TYR:CD2	14:j5:193:ALA:HA	2.31	0.65
14:k6:252:ARG:HH11	14:k6:254:ASN:CA	2.01	0.65
14:k9:188:TYR:CD1	14:k9:193:ALA:HA	2.32	0.65
14:d1:215:GLU:OE2	14:f9:25:THR:HG21	1.97	0.65
14:e1:60:ILE:HD12	14:e1:165:LEU:HD21	1.78	0.65
14:f5:363:ARG:HA	14:f5:363:ARG:NE	2.11	0.65
14:j9:182:GLN:HB2	14:j9:188:TYR:CD1	2.31	0.65
14:k3:363:ARG:NE	14:k3:363:ARG:HA	2.11	0.65
9:b5:178:ARG:HD2	14:j5:5:LEU:HD22	1.79	0.65
12:c7:70:VAL:HB	14:i3:431:GLY:O	1.97	0.65
14:e4:28:LYS:CD	14:k0:226:TYR:CE1	2.78	0.65
14:f2:60:ILE:HD11	14:f2:165:LEU:CD2	2.26	0.65
14:i3:114:ARG:NH2	14:i3:117:ASP:OD2	2.29	0.65
14:i3:114:ARG:HH21	14:i3:117:ASP:CB	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i5:40:GLU:CB	14:i5:210:PHE:HE1	2.10	0.65
14:i9:182:GLN:HB2	14:i9:188:TYR:CD2	2.32	0.65
12:c6:162:THR:HB	14:k3:14:GLN:CD	2.21	0.65
14:f8:175:LEU:HB3	14:f8:177:PHE:CZ	2.32	0.65
3:a2:246:LEU:CG	14:i6:364:GLN:HB2	2.27	0.65
9:a9:165:THR:CB	14:f7:14:GLN:OE1	2.45	0.65
9:c1:165:THR:O	9:c1:165:THR:HG22	1.97	0.65
11:c2:67:THR:HG21	14:k0:218:ARG:N	2.12	0.65
11:c3:10:SER:CB	14:k9:170:TYR:CB	2.75	0.65
12:c8:141:THR:C	14:i0:216:ARG:NH2	2.55	0.65
14:d3:260:LYS:HB2	14:d3:421:TYR:HE1	1.62	0.65
14:g5:182:GLN:CB	14:g5:188:TYR:CD2	2.79	0.65
14:h7:188:TYR:CD1	14:h7:193:ALA:HA	2.31	0.65
14:j3:363:ARG:HA	14:j3:363:ARG:NE	2.12	0.65
14:k5:265:ASN:CG	14:k5:275:TYR:HE1	2.04	0.65
3:a2:246:LEU:HD11	14:i6:364:GLN:HB2	1.79	0.65
10:b6:233:LEU:CD2	14:d7:9:VAL:C	2.70	0.65
14:d8:4:GLY:HA2	14:g6:325:ARG:NH1	2.12	0.65
14:f2:260:LYS:CE	14:f2:360:PRO:C	2.69	0.65
14:f7:182:GLN:HB2	14:f7:188:TYR:CD2	2.32	0.65
14:f8:206:VAL:HG11	14:f8:208:TYR:CZ	2.32	0.65
14:j5:219:PHE:HE1	14:j5:226:TYR:OH	1.80	0.65
14:d6:260:LYS:HE3	14:d6:360:PRO:O	1.96	0.65
14:e3:257:HIS:CE1	14:e3:422:ASN:ND2	2.65	0.65
14:e4:260:LYS:HZ2	14:e4:357:ALA:CB	2.09	0.65
14:e9:60:ILE:HG23	14:e9:208:TYR:CZ	2.32	0.65
14:g9:96:VAL:HG22	14:g9:177:PHE:HD2	1.62	0.65
14:h1:182:GLN:HB2	14:h1:188:TYR:CD2	2.32	0.65
14:h8:210:PHE:HB3	14:k6:8:LEU:CD1	2.27	0.65
14:i8:8:LEU:HD12	14:i8:8:LEU:C	2.22	0.65
14:j0:67:ILE:HG22	14:j0:208:TYR:CD2	2.31	0.65
14:j3:281:ILE:HD11	14:j3:284:ALA:CB	2.09	0.65
2:a1:169:THR:O	14:i6:220:ALA:HB1	1.97	0.64
12:c7:162:THR:CG2	14:e6:435:TYR:HD1	2.09	0.64
14:d3:260:LYS:HD2	14:d3:357:ALA:CB	2.25	0.64
14:d5:363:ARG:NE	14:d5:363:ARG:HA	2.12	0.64
14:d8:114:ARG:NH2	14:d8:117:ASP:OD2	2.30	0.64
14:i2:260:LYS:HD3	14:i2:360:PRO:O	1.96	0.64
9:b7:192:MET:HE2	14:i9:171:HIS:CE1	2.32	0.64
12:c6:63:ALA:O	12:c6:66:TYR:HB2	1.97	0.64
14:d1:96:VAL:HG22	14:d1:177:PHE:HD1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e0:11:TYR:CE1	14:e0:15:ASP:CB	2.81	0.64
14:g2:219:PHE:CD1	14:g2:224:HIS:CE1	2.86	0.64
14:g6:211:LEU:HD22	14:g6:215:GLU:CD	2.23	0.64
14:h1:114:ARG:NH2	14:h1:117:ASP:OD2	2.30	0.64
14:i3:114:ARG:NH2	14:i3:117:ASP:CB	2.57	0.64
8:a8:133:SER:HA	8:a8:136:PHE:CD2	2.33	0.64
12:c8:104:GLY:C	14:f2:430:MET:HE3	2.21	0.64
13:c9:129:TYR:CE2	9:l5:149:LEU:CD2	2.81	0.64
13:c9:165:PHE:CD1	14:f9:432:GLY:C	2.75	0.64
14:d2:27:PHE:HE1	14:i8:209:ILE:HG12	1.60	0.64
14:d5:11:TYR:CE1	14:d5:15:ASP:HB3	2.33	0.64
14:g7:226:TYR:HE1	14:g7:426:ILE:HD13	1.61	0.64
14:h3:182:GLN:HB2	14:h3:188:TYR:CD2	2.32	0.64
14:i2:260:LYS:CE	14:i2:421:TYR:OH	2.42	0.64
14:k5:96:VAL:HG22	14:k5:177:PHE:CD2	2.32	0.64
14:l1:363:ARG:HA	14:l1:363:ARG:NE	2.12	0.64
2:a1:186:LEU:HG	14:i6:434:ALA:HB2	1.79	0.64
3:a2:284:TYR:CE1	14:d1:170:TYR:OH	2.50	0.64
3:a3:247:VAL:HG11	14:d1:30:VAL:HG11	1.77	0.64
5:a5:203:PHE:CD2	13:c9:73:THR:HG22	2.32	0.64
10:b6:341:GLY:C	14:l2:169:GLN:O	2.40	0.64
12:c6:129:ARG:NH2	14:f0:375:ASP:OD2	2.31	0.64
14:d3:363:ARG:NE	14:d3:363:ARG:HA	2.13	0.64
14:d8:188:TYR:CD2	14:d8:193:ALA:HA	2.33	0.64
14:e4:209:ILE:HG23	14:h2:27:PHE:CZ	2.31	0.64
14:g9:96:VAL:HG22	14:g9:177:PHE:CD2	2.32	0.64
14:h5:11:TYR:OH	14:h5:16:VAL:HA	1.97	0.64
14:i4:90:GLU:HG2	14:i4:272:TYR:OH	1.98	0.64
14:j5:329:ARG:NH2	14:j5:333:TYR:CE2	2.66	0.64
14:k7:96:VAL:CG2	14:k7:177:PHE:CE1	2.80	0.64
14:k8:260:LYS:CD	14:k8:421:TYR:HE2	2.05	0.64
14:l2:96:VAL:HG23	14:l2:177:PHE:CD1	2.32	0.64
10:b6:312:SER:O	14:i5:62:ARG:CD	2.46	0.64
12:c7:158:ALA:HB2	14:e5:5:LEU:HD13	1.78	0.64
14:e2:182:GLN:HB2	14:e2:188:TYR:CD1	2.33	0.64
14:f8:215:GLU:OE2	14:i6:25:THR:HG21	1.97	0.64
14:g9:60:ILE:HD11	14:g9:165:LEU:CD2	2.27	0.64
14:h8:99:GLU:OE2	14:h8:102:GLY:HA2	1.98	0.64
14:j2:114:ARG:HH21	14:j2:117:ASP:CB	2.10	0.64
14:l1:188:TYR:CD1	14:l1:193:ALA:HA	2.32	0.64
2:a1:202:THR:O	2:a1:204:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a5:93:PRO:HB3	10:b6:182:VAL:HA	1.79	0.64
9:a9:161:ILE:CD1	14:h7:2:ALA:N	2.54	0.64
11:c2:42:PRO:HB2	14:f2:11:TYR:OH	1.98	0.64
14:e3:306:TYR:HE2	14:e3:346:VAL:HG22	1.62	0.64
14:f1:373:ARG:NH2	14:k7:13:ALA:H	1.94	0.64
14:h4:188:TYR:CD1	14:h4:193:ALA:HA	2.33	0.64
14:h8:210:PHE:HB3	14:k6:8:LEU:HD11	1.78	0.64
14:h8:211:LEU:HD22	14:h8:215:GLU:OE2	1.97	0.64
14:i8:363:ARG:HA	14:i8:363:ARG:HE	1.63	0.64
14:j0:329:ARG:NH2	14:j0:333:TYR:CE2	2.66	0.64
9:b2:164:ASN:HB2	14:e0:437:ASN:OD1	1.98	0.64
11:c5:54:TYR:HE1	14:h8:425:ARG:HH21	1.46	0.64
12:c6:96:SER:CB	14:i4:64:GLY:O	2.46	0.64
12:c6:163:ARG:HD2	14:h4:375:ASP:OD2	1.97	0.64
12:c7:145:ILE:HG21	14:k1:170:TYR:CZ	2.32	0.64
13:c9:19:TYR:CE1	14:g2:225:GLU:OE1	2.50	0.64
14:d7:243:ALA:HA	14:d7:386:CYS:O	1.97	0.64
14:h5:206:VAL:CG1	14:h5:208:TYR:CZ	2.80	0.64
14:l2:35:THR:CG2	14:l2:215:GLU:OE1	2.46	0.64
3:a3:271:GLY:O	14:f9:23:GLN:CG	2.46	0.64
10:b6:198:VAL:CG2	14:d5:13:ALA:HB3	2.24	0.64
10:b6:264:VAL:O	14:e7:9:VAL:CG2	2.23	0.64
10:b6:337:ILE:CD1	14:l2:210:PHE:CD2	2.80	0.64
12:c6:127:ARG:HD3	14:f0:374:ILE:O	1.96	0.64
14:k7:175:LEU:HD13	14:k7:177:PHE:HZ	1.62	0.64
3:a2:284:TYR:OH	14:d1:170:TYR:CE1	2.50	0.64
3:a3:284:TYR:CE2	14:f9:15:ASP:HB2	2.33	0.64
9:b2:175:TYR:CD1	14:e0:321:ASN:HB3	2.33	0.64
9:b4:158:THR:HG21	14:j6:220:ALA:CB	2.28	0.64
10:b6:241:GLY:HA2	14:j3:62:ARG:HG3	1.80	0.64
12:c7:88:VAL:HG21	14:i3:373:ARG:O	1.98	0.64
12:c8:149:LEU:HD23	14:k0:169:GLN:CD	2.23	0.64
14:g7:42:ILE:HG21	14:g7:63:ASN:HD22	1.62	0.64
14:g9:60:ILE:HD11	14:g9:173:VAL:CB	2.24	0.64
14:g9:67:ILE:CG2	14:g9:208:TYR:CD2	2.81	0.64
14:h5:60:ILE:HD12	14:h5:165:LEU:HD21	1.77	0.64
14:i6:121:ARG:NH1	14:i6:129:TYR:CE1	2.65	0.64
14:j2:114:ARG:NH2	14:j2:117:ASP:OD2	2.31	0.64
4:a4:156:CYS:N	4:a4:157:PRO:CA	2.59	0.64
14:f3:14:GLN:HE22	14:i1:257:HIS:CA	1.90	0.64
14:f6:363:ARG:NE	14:f6:363:ARG:HA	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f8:188:TYR:CD2	14:f8:193:ALA:HA	2.33	0.64
14:h8:211:LEU:HB2	14:h8:216:ARG:HG2	1.80	0.64
14:i5:252:ARG:HD2	14:k5:252:ARG:CD	2.28	0.64
14:i7:329:ARG:CZ	14:i7:333:TYR:CD2	2.81	0.64
14:j8:206:VAL:HB	14:j8:208:TYR:HE1	1.61	0.64
14:k3:306:TYR:HE2	14:k3:346:VAL:HG22	1.61	0.64
5:a5:143:MET:HE1	14:g3:170:TYR:CD1	2.33	0.63
10:b6:187:TYR:HE2	14:g3:170:TYR:CD1	2.15	0.63
12:c8:124:ARG:HA	14:k9:375:ASP:OD1	1.98	0.63
13:c9:71:ARG:NH2	13:c9:72:TYR:OH	2.31	0.63
14:e1:90:GLU:OE1	14:e1:114:ARG:CA	2.46	0.63
14:e4:211:LEU:HD22	14:e4:215:GLU:OE2	1.98	0.63
14:h0:67:ILE:HG22	14:h0:208:TYR:CD1	2.33	0.63
14:h6:223:PRO:HB2	14:h6:425:ARG:NH2	2.13	0.63
14:l2:363:ARG:NE	14:l2:363:ARG:HA	2.13	0.63
10:b6:240:GLY:HA2	14:j2:171:HIS:CD2	2.34	0.63
9:b8:205:LEU:HD13	14:d3:9:VAL:HB	1.80	0.63
11:c2:67:THR:HG21	14:k0:217:THR:CB	2.28	0.63
11:c2:93:ASN:O	14:e4:17:TYR:HB2	1.99	0.63
14:e1:90:GLU:HG2	14:e1:272:TYR:OH	1.98	0.63
14:e7:365:PRO:HB2	14:h5:34:TYR:CE1	2.34	0.63
14:h4:214:GLN:HB3	14:h4:218:ARG:HH12	1.54	0.63
14:i5:121:ARG:NH1	14:i5:129:TYR:CZ	2.65	0.63
14:i7:175:LEU:HD13	14:i7:177:PHE:HZ	1.62	0.63
14:k3:306:TYR:CE2	14:k3:346:VAL:HG22	2.32	0.63
14:k7:363:ARG:HA	14:k7:363:ARG:HE	1.63	0.63
5:a5:199:PHE:CE1	14:d5:35:THR:CG2	2.81	0.63
10:b6:215:HIS:ND1	14:d6:62:ARG:HD2	2.14	0.63
12:c7:156:PHE:HA	14:e6:425:ARG:NH1	2.12	0.63
14:d0:72:VAL:HG12	14:d0:74:PHE:CZ	2.20	0.63
14:e1:34:TYR:HE1	14:j7:365:PRO:HB2	1.64	0.63
14:e1:96:VAL:HG22	14:e1:177:PHE:HD1	1.62	0.63
14:f1:33:ARG:HD2	14:h9:20:GLY:O	1.97	0.63
14:f1:363:ARG:NE	14:f1:363:ARG:HA	2.14	0.63
14:f9:114:ARG:HH21	14:f9:117:ASP:CB	2.10	0.63
14:i2:12:GLY:HA3	14:l0:373:ARG:NE	2.12	0.63
14:k5:60:ILE:HD12	14:k5:67:ILE:HD13	1.79	0.63
9:a9:161:ILE:O	14:i5:436:ALA:HA	1.99	0.63
10:b6:215:HIS:HB2	14:d6:62:ARG:HD2	1.80	0.63
11:c3:9:ALA:HB2	14:e4:170:TYR:HE1	1.60	0.63
12:c6:59:SER:CB	14:f5:169:GLN:OE1	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f2:4:GLY:HA2	14:i0:325:ARG:NH1	2.14	0.63
14:f3:211:LEU:HD22	14:f3:215:GLU:OE2	1.97	0.63
14:f7:188:TYR:CD1	14:f7:193:ALA:HA	2.34	0.63
14:g9:158:THR:CG2	14:g9:363:ARG:NE	2.60	0.63
14:g9:206:VAL:HB	14:g9:208:TYR:CE1	2.33	0.63
14:h4:209:ILE:CG1	14:k2:27:PHE:CE1	2.78	0.63
2:a1:117:THR:HG21	14:d2:429:GLY:N	2.12	0.63
4:a4:108:PHE:CE1	4:a4:135:LEU:HD23	2.33	0.63
9:a9:161:ILE:HG13	14:i5:103:GLN:CD	2.24	0.63
14:d6:188:TYR:CD2	14:d6:193:ALA:HA	2.33	0.63
14:d7:99:GLU:OE1	14:d7:176:TYR:CE1	2.51	0.63
14:e5:27:PHE:HE2	14:k1:209:ILE:HG12	1.62	0.63
14:e8:363:ARG:HA	14:e8:363:ARG:NE	2.14	0.63
14:g1:260:LYS:HD2	14:g1:421:TYR:OH	1.98	0.63
14:h1:114:ARG:NH2	14:h1:117:ASP:CB	2.55	0.63
14:h1:363:ARG:NE	14:h1:363:ARG:HA	2.14	0.63
14:i2:243:ALA:N	14:i2:386:CYS:SG	2.72	0.63
14:k6:96:VAL:HG22	14:k6:177:PHE:CD2	2.34	0.63
14:l3:206:VAL:HB	14:l3:208:TYR:CE2	2.33	0.63
3:a2:246:LEU:HD21	14:i6:364:GLN:OE1	1.99	0.63
9:b0:148:ASN:HB2	14:l2:170:TYR:HE1	1.62	0.63
9:b1:161:ILE:HD13	9:b1:161:ILE:N	2.14	0.63
9:b3:161:ILE:CD1	14:h0:5:LEU:HB3	2.29	0.63
11:c4:14:SER:C	11:c4:16:THR:H	2.07	0.63
14:e0:20:GLY:O	14:j6:33:ARG:HD2	1.98	0.63
14:e0:182:GLN:CB	14:e0:188:TYR:CD1	2.82	0.63
14:e9:188:TYR:CD2	14:e9:193:ALA:HA	2.34	0.63
14:f3:260:LYS:CD	14:f3:421:TYR:CZ	2.79	0.63
14:h4:209:ILE:HG23	14:k2:27:PHE:HZ	1.59	0.63
14:h4:260:LYS:HB2	14:h4:421:TYR:HE1	1.64	0.63
14:i2:13:ALA:H	14:l0:373:ARG:HH21	1.47	0.63
14:i6:182:GLN:HB2	14:i6:188:TYR:CD1	2.33	0.63
14:k1:67:ILE:CG2	14:k1:208:TYR:CE2	2.80	0.63
11:c5:42:PRO:CG	14:f0:11:TYR:HE1	2.11	0.63
12:c7:109:MET:CE	14:k8:220:ALA:HB2	2.24	0.63
12:c8:152:ALA:CB	14:e5:430:MET:SD	2.79	0.63
14:e1:329:ARG:NH2	14:e1:333:TYR:CE2	2.67	0.63
14:e1:340:TYR:OH	14:g9:150:PRO:HG3	1.99	0.63
14:e9:260:LYS:HG3	14:e9:357:ALA:CB	2.25	0.63
14:f4:308:GLU:CD	14:f4:336:LYS:HE3	2.23	0.63
14:f8:60:ILE:HD11	14:f8:173:VAL:HG12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i7:260:LYS:NZ	14:i7:360:PRO:O	2.31	0.63
5:a5:210:TYR:CZ	13:c9:116:THR:HG21	2.31	0.63
8:a8:140:ASP:OD2	14:j9:373:ARG:HD3	1.99	0.63
14:d3:175:LEU:HD13	14:d3:177:PHE:CZ	2.32	0.63
14:f2:206:VAL:HB	14:f2:208:TYR:CE1	2.34	0.63
14:f9:243:ALA:HA	14:f9:386:CYS:O	1.99	0.63
14:g0:252:ARG:HD3	14:g0:252:ARG:C	2.23	0.63
14:g2:320:LEU:HD13	14:g2:374:ILE:CD1	2.28	0.63
14:g6:260:LYS:HB2	14:g6:421:TYR:HE1	1.64	0.63
14:i0:175:LEU:HB3	14:i0:177:PHE:CZ	2.34	0.63
14:j1:430:MET:CE	9:l5:191:TRP:CE3	2.81	0.63
14:k5:226:TYR:CE2	14:k5:426:ILE:HD13	2.33	0.63
10:b6:315:GLN:HB3	14:k6:101:GLY:O	1.99	0.63
10:b6:324:GLY:HA3	14:f7:373:ARG:C	2.23	0.63
14:e6:182:GLN:CB	14:e6:188:TYR:CD2	2.82	0.63
14:f4:96:VAL:HG22	14:f4:177:PHE:HD1	1.63	0.63
14:f4:265:ASN:CG	14:f4:275:TYR:HE1	2.06	0.63
14:f6:329:ARG:NH1	14:f6:333:TYR:CZ	2.67	0.63
14:g0:182:GLN:HB2	14:g0:188:TYR:CD1	2.34	0.63
14:g1:182:GLN:HB2	14:g1:188:TYR:CD2	2.33	0.63
14:h4:215:GLU:HA	14:h4:218:ARG:NH2	2.13	0.63
14:h4:260:LYS:CD	14:h4:421:TYR:OH	2.45	0.63
14:j8:188:TYR:CD1	14:j8:193:ALA:HA	2.34	0.63
14:j9:188:TYR:CD2	14:j9:193:ALA:HA	2.34	0.63
14:k1:99:GLU:OE1	14:k1:176:TYR:CE1	2.51	0.63
14:k8:329:ARG:NH2	14:k8:333:TYR:CE2	2.67	0.63
9:a9:161:ILE:CD1	14:i5:103:GLN:HE22	2.12	0.62
9:b1:188:VAL:HG12	9:b8:190:PRO:HG3	1.80	0.62
14:j6:67:ILE:HG22	14:j6:208:TYR:CD2	2.34	0.62
14:k2:96:VAL:HG22	14:k2:177:PHE:HD1	1.64	0.62
3:a2:279:TRP:HZ3	14:d1:430:MET:C	2.07	0.62
3:a3:231:LEU:CD2	14:i7:26:PHE:CD1	2.82	0.62
3:a3:280:ALA:HB1	14:f9:15:ASP:O	1.99	0.62
10:b6:322:THR:OG1	14:l3:9:VAL:HG23	1.99	0.62
11:c2:39:GLU:O	11:c2:43:ASN:ND2	2.32	0.62
11:c5:7:ASP:HB2	14:k2:169:GLN:HB3	1.81	0.62
14:d5:170:TYR:CE1	14:i7:62:ARG:HD2	2.34	0.62
14:e1:306:TYR:OH	14:e1:346:VAL:CG2	2.47	0.62
14:e4:260:LYS:CE	14:e4:357:ALA:CB	2.77	0.62
14:g6:260:LYS:HB2	14:g6:421:TYR:CE1	2.35	0.62
14:h5:187:ASN:ND2	14:h5:188:TYR:CE1	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i6:60:ILE:CD1	14:i6:165:LEU:HD21	2.19	0.62
14:j6:329:ARG:NH2	14:j6:333:TYR:CD2	2.68	0.62
14:k9:260:LYS:CD	14:k9:421:TYR:CZ	2.82	0.62
12:c7:136:SER:HB3	14:k1:434:ALA:C	2.24	0.62
14:e0:90:GLU:HG2	14:e0:272:TYR:OH	2.00	0.62
14:e2:67:ILE:CG2	14:e2:208:TYR:CD2	2.81	0.62
14:g2:321:ASN:CB	9:l5:175:TYR:CE1	2.82	0.62
14:h0:121:ARG:NH2	14:h0:129:TYR:CE1	2.67	0.62
14:h5:182:GLN:CB	14:h5:188:TYR:CD1	2.83	0.62
14:h6:260:LYS:HB2	14:h6:421:TYR:HE1	1.64	0.62
14:l1:260:LYS:HD3	14:l1:421:TYR:CZ	2.33	0.62
2:a1:158:TYR:CE1	3:a2:231:LEU:HD11	2.34	0.62
10:b6:240:GLY:O	14:j2:171:HIS:CD2	2.53	0.62
9:b7:165:THR:HG21	14:j4:14:GLN:HG3	1.80	0.62
12:c6:162:THR:CG2	14:k3:14:GLN:CD	2.73	0.62
14:d0:146:ARG:HE	14:i6:330:LYS:HG3	1.64	0.62
14:e1:60:ILE:CD1	14:e1:173:VAL:HB	2.29	0.62
14:e4:260:LYS:HZ1	14:e4:357:ALA:HB1	1.61	0.62
14:f1:67:ILE:HG22	14:f1:208:TYR:CD1	2.35	0.62
14:f3:206:VAL:HB	14:f3:208:TYR:CE1	2.35	0.62
14:f6:252:ARG:CD	14:k7:252:ARG:NH1	2.63	0.62
14:f7:114:ARG:HH21	14:f7:117:ASP:CB	2.12	0.62
14:g9:60:ILE:CD1	14:g9:165:LEU:CD2	2.78	0.62
14:h4:215:GLU:OE1	14:h4:218:ARG:NE	2.31	0.62
14:h6:260:LYS:HB2	14:h6:421:TYR:CE1	2.35	0.62
14:h9:266:PHE:HE2	14:h9:383:TYR:HH	1.47	0.62
14:i8:260:LYS:CE	14:i8:357:ALA:CB	2.77	0.62
14:j1:329:ARG:NH1	14:j1:333:TYR:CE1	2.67	0.62
14:k5:96:VAL:HG22	14:k5:177:PHE:HD2	1.64	0.62
9:a9:161:ILE:CD1	14:i5:103:GLN:NE2	2.62	0.62
14:f6:62:ARG:CZ	14:f6:165:LEU:HD11	2.29	0.62
14:h6:329:ARG:NH2	14:h6:333:TYR:CE1	2.68	0.62
14:k3:99:GLU:OE1	14:k3:176:TYR:HE1	1.80	0.62
14:l3:329:ARG:NH2	14:l3:333:TYR:CE1	2.67	0.62
10:b6:221:LEU:HD23	14:g4:9:VAL:CG1	2.30	0.62
14:d1:243:ALA:HA	14:d1:386:CYS:O	1.99	0.62
14:d4:306:TYR:CE1	14:d4:346:VAL:HG22	2.34	0.62
14:e4:90:GLU:HG2	14:e4:272:TYR:OH	1.99	0.62
14:e9:20:GLY:O	14:k5:33:ARG:HD2	2.00	0.62
14:g7:188:TYR:CD2	14:g7:193:ALA:HA	2.33	0.62
14:h2:265:ASN:CG	14:h2:275:TYR:HE1	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j8:225:GLU:HG2	14:j8:425:ARG:HG2	1.81	0.62
14:l0:260:LYS:HE2	14:l0:421:TYR:CZ	2.35	0.62
8:a8:136:PHE:CE2	14:e4:435:TYR:CE1	2.88	0.62
12:c6:90:THR:OG1	14:l2:9:VAL:HB	1.99	0.62
12:c7:115:LEU:HD21	14:f1:427:MET:HE3	1.80	0.62
13:c9:71:ARG:NH2	13:c9:72:TYR:CE1	2.67	0.62
14:e1:96:VAL:HG22	14:e1:177:PHE:CD1	2.34	0.62
14:e7:306:TYR:HE2	14:e7:346:VAL:HG22	1.65	0.62
14:f5:329:ARG:NH2	14:f5:333:TYR:CE2	2.68	0.62
14:f8:363:ARG:NE	14:f8:363:ARG:HA	2.14	0.62
14:g8:67:ILE:HG21	14:g8:208:TYR:CE1	2.33	0.62
14:h4:182:GLN:HB2	14:h4:188:TYR:CD2	2.34	0.62
14:i5:260:LYS:HD3	14:i5:421:TYR:CZ	2.34	0.62
14:i7:188:TYR:CD1	14:i7:193:ALA:HA	2.34	0.62
14:j2:188:TYR:CD2	14:j2:193:ALA:HA	2.34	0.62
14:k6:252:ARG:HH11	14:k6:254:ASN:N	1.98	0.62
14:k6:265:ASN:ND2	14:k6:275:TYR:HE1	1.98	0.62
2:a1:194:CYS:HB2	2:a1:201:CYS:SG	2.39	0.62
3:a3:233:MET:CG	14:i7:24:ILE:HD13	2.29	0.62
9:b5:175:TYR:CB	14:g7:63:ASN:OD1	2.48	0.62
10:b6:187:TYR:CD2	14:g3:170:TYR:HD1	2.17	0.62
10:b6:215:HIS:HE1	14:d6:64:GLY:O	1.83	0.62
12:c6:96:SER:HB2	14:i4:64:GLY:O	1.99	0.62
12:c7:43:THR:CB	14:f4:170:TYR:OH	2.48	0.62
12:c8:90:THR:HG22	14:f4:9:VAL:HG21	1.79	0.62
14:d3:182:GLN:CB	14:d3:188:TYR:CD1	2.82	0.62
14:e1:229:GLU:HG2	14:e1:421:TYR:CE1	2.34	0.62
14:f2:171:HIS:CE1	14:f2:430:MET:HB3	2.35	0.62
14:f4:226:TYR:CE2	14:i2:28:LYS:HD3	2.35	0.62
14:l1:363:ARG:HA	14:l1:363:ARG:HE	1.65	0.62
3:a3:231:LEU:HD23	14:i7:26:PHE:CE1	2.35	0.62
12:c8:88:VAL:HG23	14:f4:9:VAL:C	2.25	0.62
14:d1:211:LEU:HD22	14:d1:215:GLU:HG2	1.81	0.62
14:g1:60:ILE:HD11	14:g1:173:VAL:HB	1.81	0.62
14:g2:37:PHE:CE1	14:j0:27:PHE:HZ	2.18	0.62
14:j8:60:ILE:HD11	14:j8:165:LEU:HD21	1.81	0.62
12:c8:115:LEU:CD2	14:f2:431:GLY:C	2.73	0.62
14:d4:306:TYR:OH	14:d4:346:VAL:CG1	2.47	0.62
14:e6:121:ARG:NH1	14:e6:129:TYR:CZ	2.68	0.62
14:g2:17:TYR:HE1	14:j0:435:TYR:HH	1.48	0.62
14:h9:260:LYS:HD3	14:h9:421:TYR:OH	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i3:363:ARG:NE	14:i3:363:ARG:HA	2.15	0.62
14:i9:260:LYS:NZ	14:i9:357:ALA:CB	2.62	0.62
14:k1:260:LYS:HB2	14:k1:421:TYR:HE1	1.64	0.62
14:k5:265:ASN:ND2	14:k5:275:TYR:HE1	1.96	0.62
2:a1:177:PRO:O	14:i6:428:SER:HB3	1.99	0.61
9:b4:160:TRP:NE1	14:d9:427:MET:HB3	2.14	0.61
10:b6:317:ARG:HD3	14:l3:5:LEU:HD11	1.80	0.61
14:d8:363:ARG:HA	14:d8:363:ARG:HE	1.65	0.61
14:e3:325:ARG:NH1	14:j9:4:GLY:HA2	2.15	0.61
14:e5:90:GLU:OE1	14:e5:114:ARG:N	2.34	0.61
14:e6:28:LYS:HD3	14:k2:226:TYR:CE1	2.35	0.61
14:e6:363:ARG:HA	14:e6:363:ARG:NE	2.15	0.61
14:f0:121:ARG:NH1	14:f0:129:TYR:CE1	2.68	0.61
14:f8:60:ILE:CD1	14:f8:165:LEU:HD21	2.30	0.61
14:g7:33:ARG:HD2	14:j5:20:GLY:O	1.99	0.61
14:g7:182:GLN:CB	14:g7:188:TYR:CD1	2.82	0.61
14:i2:260:LYS:CD	14:i2:360:PRO:O	2.48	0.61
14:k5:425:ARG:HB3	14:k5:427:MET:HE3	1.82	0.61
4:a4:144:TRP:HA	4:a4:154:TRP:NE1	2.14	0.61
9:b2:175:TYR:CD1	14:e0:321:ASN:CA	2.81	0.61
14:e6:121:ARG:NH1	14:e6:129:TYR:CE1	2.69	0.61
14:g3:209:ILE:HG23	14:j1:27:PHE:CZ	2.33	0.61
14:j8:96:VAL:HG22	14:j8:177:PHE:HD1	1.64	0.61
7:a7:107:PHE:O	7:a7:110:LEU:HB2	2.00	0.61
9:c0:192:MET:SD	14:g4:436:ALA:HB2	2.39	0.61
14:e2:206:VAL:HB	14:e2:208:TYR:CE1	2.35	0.61
14:f4:175:LEU:HD13	14:f4:177:PHE:HZ	1.65	0.61
14:g6:67:ILE:HG22	14:g6:208:TYR:CD2	2.35	0.61
14:g9:17:TYR:CE2	14:j7:435:TYR:CE2	2.88	0.61
14:h4:215:GLU:CB	14:h4:218:ARG:HH21	2.07	0.61
14:h7:145:LYS:CD	14:h7:147:PHE:CZ	2.83	0.61
14:k1:158:THR:CB	14:k1:363:ARG:CZ	2.79	0.61
14:k6:252:ARG:HD3	14:k6:252:ARG:C	2.24	0.61
3:a3:246:LEU:CD2	14:i7:32:ARG:HD2	2.29	0.61
14:d5:182:GLN:CB	14:d5:188:TYR:CD2	2.84	0.61
14:g9:67:ILE:CG2	14:g9:208:TYR:CE2	2.83	0.61
14:h4:214:GLN:O	14:h4:218:ARG:HG3	2.00	0.61
14:i1:425:ARG:HH21	14:i1:434:ALA:HA	1.63	0.61
14:i7:260:LYS:CE	14:i7:360:PRO:O	2.48	0.61
14:i8:90:GLU:OE1	14:i8:114:ARG:N	2.34	0.61
11:c5:26:LEU:CD1	14:h8:373:ARG:CD	2.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c6:112:SER:HB2	14:f0:430:MET:SD	2.39	0.61
14:e4:90:GLU:OE1	14:e4:114:ARG:CA	2.48	0.61
14:e8:260:LYS:HD3	14:e8:421:TYR:OH	1.99	0.61
14:g5:260:LYS:HB2	14:g5:421:TYR:HE1	1.65	0.61
14:g9:60:ILE:HG12	14:g9:173:VAL:O	2.00	0.61
14:i6:206:VAL:HB	14:i6:208:TYR:CE1	2.36	0.61
14:j4:96:VAL:CG2	14:j4:177:PHE:CE2	2.84	0.61
14:k9:187:ASN:ND2	14:k9:188:TYR:CE2	2.68	0.61
14:l2:175:LEU:HD13	14:l2:177:PHE:HZ	1.65	0.61
1:a0:12:LEU:HD21	1:a0:66:TYR:CE2	2.34	0.61
2:a1:150:LEU:CD1	14:d2:425:ARG:NH1	2.63	0.61
14:d3:260:LYS:CE	14:d3:357:ALA:CB	2.79	0.61
14:e1:33:ARG:HD2	14:g9:20:GLY:O	2.00	0.61
14:e5:329:ARG:NH2	14:e5:333:TYR:CE1	2.69	0.61
14:f6:363:ARG:HA	14:f6:363:ARG:HE	1.65	0.61
14:g8:260:LYS:HD3	14:g8:360:PRO:C	2.26	0.61
14:k2:188:TYR:CE1	14:k2:193:ALA:HB2	2.35	0.61
14:l2:211:LEU:HD22	14:l2:215:GLU:OE2	2.01	0.61
10:b6:190:VAL:HG11	14:g3:430:MET:HE1	1.77	0.61
10:b6:233:LEU:HD22	14:d7:9:VAL:C	2.26	0.61
10:b6:341:GLY:O	14:l2:170:TYR:HA	2.00	0.61
14:d0:27:PHE:HE1	14:i6:209:ILE:CG1	2.14	0.61
14:e1:34:TYR:CE1	14:j7:365:PRO:HB2	2.36	0.61
14:f6:329:ARG:NH2	14:f6:333:TYR:CD2	2.69	0.61
14:g4:363:ARG:NE	14:g4:363:ARG:HA	2.15	0.61
14:h0:329:ARG:NH2	14:h0:333:TYR:CE2	2.68	0.61
14:h6:329:ARG:NH1	14:h6:333:TYR:CE1	2.69	0.61
14:k2:17:TYR:CE2	14:k2:18:LEU:HG	2.35	0.61
9:b5:191:TRP:CD1	14:i9:432:GLY:N	2.69	0.61
11:c3:15:ASP:CG	14:h2:5:LEU:HD22	2.21	0.61
12:c7:75:THR:HG22	14:i3:435:TYR:HD1	1.66	0.61
14:d0:175:LEU:HB3	14:d0:177:PHE:CZ	2.36	0.61
14:d6:175:LEU:HD13	14:d6:177:PHE:CZ	2.30	0.61
14:d6:175:LEU:HB3	14:d6:177:PHE:CZ	2.36	0.61
14:f6:182:GLN:HB2	14:f6:188:TYR:CD1	2.36	0.61
14:f8:35:THR:CG2	14:f8:215:GLU:CD	2.73	0.61
14:g5:206:VAL:HB	14:g5:208:TYR:CE2	2.36	0.61
14:h4:215:GLU:CA	14:h4:218:ARG:CZ	2.78	0.61
14:i4:187:ASN:ND2	14:i4:188:TYR:CE1	2.69	0.61
14:i5:96:VAL:CG2	14:i5:177:PHE:CE1	2.84	0.61
5:a5:121:ILE:HD11	5:a5:145:TYR:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b2:175:TYR:HD1	14:e0:321:ASN:CB	2.14	0.61
14:f4:96:VAL:HG13	14:f4:177:PHE:CE1	2.36	0.61
14:f8:306:TYR:OH	14:f8:346:VAL:HG13	2.01	0.61
14:g0:114:ARG:HH12	14:g0:118:ALA:HB2	1.64	0.61
14:g2:375:ASP:OD1	14:g2:375:ASP:O	2.19	0.61
14:h8:182:GLN:CB	14:h8:188:TYR:CD1	2.84	0.61
14:i6:90:GLU:OE2	14:i6:129:TYR:CE2	2.54	0.61
14:j1:188:TYR:CD2	14:j1:193:ALA:HA	2.36	0.61
14:k6:96:VAL:HG22	14:k6:177:PHE:HD2	1.66	0.61
14:l0:260:LYS:CE	14:l0:421:TYR:OH	2.47	0.61
8:a8:136:PHE:CE2	14:e4:435:TYR:HE1	2.18	0.61
9:b3:161:ILE:HD11	14:h0:5:LEU:HD13	1.83	0.61
13:c9:94:VAL:HG12	9:l5:164:ASN:C	2.26	0.61
14:d5:114:ARG:HH12	14:d5:118:ALA:HB2	1.64	0.61
14:e7:67:ILE:CG2	14:e7:208:TYR:HD2	2.12	0.61
14:e8:363:ARG:HA	14:e8:363:ARG:HE	1.65	0.61
14:g3:209:ILE:CG1	14:j1:27:PHE:CE1	2.78	0.61
14:h2:265:ASN:CG	14:h2:275:TYR:CE1	2.79	0.61
14:h6:211:LEU:HD22	14:h6:215:GLU:OE2	1.99	0.61
14:i1:175:LEU:HD13	14:i1:177:PHE:HZ	1.66	0.61
14:i4:260:LYS:CE	14:i4:357:ALA:CB	2.79	0.61
14:i5:96:VAL:HG21	14:i5:177:PHE:CE1	2.36	0.61
14:i6:329:ARG:NH1	14:i6:333:TYR:CZ	2.69	0.61
14:j7:329:ARG:NH2	14:j7:333:TYR:CD1	2.68	0.61
14:j8:206:VAL:CB	14:j8:208:TYR:CE1	2.82	0.61
14:j8:265:ASN:HB2	14:j8:275:TYR:HD1	1.65	0.61
14:k6:175:LEU:HD13	14:k6:177:PHE:CZ	2.36	0.61
14:k6:265:ASN:HB2	14:k6:275:TYR:CD1	2.36	0.61
14:k7:96:VAL:HG23	14:k7:177:PHE:CE1	2.35	0.61
14:l3:67:ILE:HG21	14:l3:208:TYR:CE1	2.35	0.61
3:a2:284:TYR:HE1	14:d1:170:TYR:OH	1.83	0.60
9:b2:170:LEU:HD11	14:e0:373:ARG:CA	2.31	0.60
10:b6:215:HIS:CG	14:d6:62:ARG:HB3	2.36	0.60
9:c0:162:GLY:CA	14:k4:433:LEU:O	2.49	0.60
12:c7:57:GLY:HA3	14:f4:62:ARG:NE	2.16	0.60
14:e3:329:ARG:NH2	14:e3:333:TYR:CE1	2.69	0.60
14:j3:363:ARG:HA	14:j3:363:ARG:HE	1.65	0.60
14:j5:226:TYR:CE1	14:j5:426:ILE:HD13	2.36	0.60
14:j8:206:VAL:CG1	14:j8:208:TYR:CE1	2.83	0.60
14:k0:206:VAL:HB	14:k0:208:TYR:CE1	2.36	0.60
14:k9:260:LYS:HD3	14:k9:421:TYR:CE1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:l0:260:LYS:CD	14:l0:421:TYR:CE1	2.83	0.60
10:b6:338:ASN:HD22	14:l2:62:ARG:CA	2.14	0.60
9:b8:181:PRO:HG2	14:g6:220:ALA:HB3	1.82	0.60
14:d3:96:VAL:HG22	14:d3:177:PHE:CD1	2.36	0.60
14:d7:26:PHE:CE2	14:g5:366:SER:HA	2.36	0.60
14:d8:17:TYR:HD2	14:g6:227:LEU:HD13	1.57	0.60
14:e9:306:TYR:HE2	14:e9:346:VAL:HG22	1.65	0.60
14:f0:182:GLN:HB2	14:f0:188:TYR:CD2	2.36	0.60
14:f1:260:LYS:HD2	14:f1:261:TYR:CD2	2.36	0.60
14:f2:96:VAL:HG22	14:f2:177:PHE:HD1	1.65	0.60
14:f2:96:VAL:HG22	14:f2:177:PHE:CD1	2.36	0.60
14:f6:188:TYR:CD2	14:f6:193:ALA:HA	2.36	0.60
14:f6:252:ARG:NE	14:k7:252:ARG:HD3	2.14	0.60
14:g4:265:ASN:ND2	14:g4:275:TYR:HE1	1.98	0.60
14:h0:86:TYR:OH	14:h0:114:ARG:NH2	2.34	0.60
14:h4:260:LYS:HB2	14:h4:421:TYR:CE1	2.37	0.60
14:j7:60:ILE:O	14:j7:60:ILE:HG13	2.00	0.60
4:a4:112:VAL:HG23	4:a4:121:PRO:HG3	1.83	0.60
10:b6:187:TYR:CE2	14:g3:170:TYR:HD1	2.17	0.60
11:c4:17:HIS:NE2	14:h9:431:GLY:C	2.58	0.60
12:c8:90:THR:CG2	14:f4:9:VAL:CB	2.78	0.60
12:c8:119:PHE:HE2	14:f2:436:ALA:HB2	1.65	0.60
14:e3:187:ASN:ND2	14:e3:188:TYR:CE1	2.69	0.60
14:e7:188:TYR:CE2	14:e7:193:ALA:HB2	2.36	0.60
14:f4:265:ASN:CG	14:f4:275:TYR:CE1	2.80	0.60
14:f6:306:TYR:CE1	14:f6:346:VAL:HG22	2.36	0.60
14:f7:67:ILE:CG2	14:f7:208:TYR:CD2	2.84	0.60
14:f9:187:ASN:ND2	14:f9:188:TYR:CE1	2.70	0.60
14:i7:363:ARG:HA	14:i7:363:ARG:NE	2.16	0.60
14:i8:90:GLU:HG2	14:i8:272:TYR:OH	2.00	0.60
14:i9:329:ARG:CZ	14:i9:333:TYR:CD2	2.84	0.60
14:j2:363:ARG:NE	14:j2:363:ARG:HA	2.17	0.60
14:j7:114:ARG:HA	14:j7:114:ARG:HE	1.67	0.60
14:k5:230:GLN:NE2	14:k5:433:LEU:HD13	2.14	0.60
14:l0:329:ARG:NH2	14:l0:333:TYR:CE2	2.70	0.60
10:b6:327:ARG:NH1	14:i4:256:ASN:OD1	2.34	0.60
11:c4:6:ARG:O	11:c4:8:THR:N	2.34	0.60
12:c6:123:LEU:HD11	14:f1:9:VAL:O	2.00	0.60
12:c6:137:PHE:CD2	14:k2:436:ALA:CB	2.85	0.60
14:f2:67:ILE:HG21	14:f2:208:TYR:CE2	2.36	0.60
14:f8:187:ASN:ND2	14:f8:188:TYR:HE1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g1:260:LYS:HE3	14:g1:360:PRO:O	1.98	0.60
14:g4:363:ARG:HA	14:g4:363:ARG:HE	1.66	0.60
14:h8:63:ASN:ND2	14:k2:99:GLU:OE2	2.33	0.60
14:i5:363:ARG:NE	14:i5:363:ARG:HA	2.16	0.60
14:j7:187:ASN:ND2	14:j7:188:TYR:CE1	2.70	0.60
9:b3:170:LEU:HD11	14:g9:372:SER:O	2.00	0.60
9:c0:178:ARG:O	9:c0:201:TYR:HE2	1.83	0.60
9:c1:192:MET:C	9:c1:193:MET:O	2.44	0.60
11:c2:5:PHE:N	14:e5:170:TYR:O	2.33	0.60
11:c3:60:LEU:HG	11:c3:60:LEU:O	2.02	0.60
12:c6:149:LEU:HB3	14:k2:169:GLN:CD	2.27	0.60
14:e6:30:VAL:HG13	14:e6:30:VAL:O	2.01	0.60
14:e9:211:LEU:O	14:e9:216:ARG:NH2	2.34	0.60
14:f1:27:PHE:CD1	14:k7:66:LEU:HD12	2.35	0.60
14:f1:96:VAL:CG2	14:f1:177:PHE:CD2	2.81	0.60
14:f4:265:ASN:HB2	14:f4:275:TYR:CD1	2.36	0.60
14:h1:114:ARG:HA	14:h1:114:ARG:HE	1.66	0.60
14:h2:175:LEU:HD13	14:h2:177:PHE:HZ	1.66	0.60
14:k5:265:ASN:HB2	14:k5:275:TYR:CD1	2.36	0.60
9:b4:166:GLN:OE1	14:d9:435:TYR:HE1	1.82	0.60
12:c7:166:LEU:HG	14:j5:375:ASP:OD2	2.01	0.60
12:c8:85:PHE:HE2	14:i2:375:ASP:OD1	1.84	0.60
14:d7:121:ARG:NH1	14:d7:129:TYR:CE1	2.69	0.60
14:d9:182:GLN:HB2	14:d9:188:TYR:CD2	2.37	0.60
14:e5:27:PHE:CE2	14:k1:209:ILE:HG12	2.36	0.60
14:e6:63:ASN:HD22	14:e6:63:ASN:H	1.49	0.60
14:f5:20:GLY:O	14:l1:33:ARG:HD2	2.02	0.60
14:g4:433:LEU:N	14:g4:433:LEU:HD23	2.16	0.60
10:b6:356:SER:OG	14:l2:435:TYR:CE1	2.53	0.60
14:d2:188:TYR:CD1	14:d2:193:ALA:HA	2.36	0.60
14:d5:363:ARG:HA	14:d5:363:ARG:HE	1.67	0.60
14:f9:114:ARG:NH2	14:f9:117:ASP:OD2	2.34	0.60
14:g8:135:TRP:CE2	14:g8:147:PHE:HZ	2.19	0.60
14:i3:312:VAL:HG12	14:i3:408:ALA:HB1	1.84	0.60
14:i5:260:LYS:HB2	14:i5:421:TYR:CE1	2.37	0.60
14:j0:105:ILE:HA	14:j0:433:LEU:CD1	2.24	0.60
14:j7:329:ARG:NH1	14:j7:333:TYR:CZ	2.69	0.60
2:a1:147:ASN:HB2	3:a2:201:GLY:HA3	1.83	0.60
3:a3:222:ILE:HD11	14:d1:214:GLN:NE2	2.17	0.60
4:a4:109:VAL:CG2	4:a4:124:THR:HG21	2.32	0.60
8:a8:136:PHE:HE2	14:e4:435:TYR:CE1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:286:TYR:HE1	14:k3:103:GLN:OE1	1.85	0.60
11:c2:7:ASP:OD2	14:k0:169:GLN:NE2	2.35	0.60
12:c8:104:GLY:C	14:f2:430:MET:HE1	2.26	0.60
14:d0:241:PRO:HB2	14:d0:386:CYS:SG	2.41	0.60
14:e0:187:ASN:ND2	14:e0:188:TYR:HE1	1.98	0.60
14:f0:60:ILE:HD11	14:f0:165:LEU:HD21	1.81	0.60
14:f8:363:ARG:HA	14:f8:363:ARG:HE	1.67	0.60
14:f9:212:ASP:C	14:f9:216:ARG:HH12	2.10	0.60
14:g4:243:ALA:HA	14:g4:386:CYS:O	2.01	0.60
14:g8:375:ASP:N	14:g8:375:ASP:OD1	2.34	0.60
14:i6:329:ARG:NH2	14:i6:333:TYR:CE1	2.70	0.60
14:j8:423:VAL:HB	14:j8:434:ALA:HB3	1.82	0.60
14:k0:67:ILE:HG22	14:k0:208:TYR:CD2	2.37	0.60
14:l2:363:ARG:HA	14:l2:363:ARG:HE	1.67	0.60
3:a2:246:LEU:HG	14:i6:364:GLN:CB	2.30	0.60
4:a4:112:VAL:HG21	4:a4:121:PRO:HG3	1.83	0.60
10:b6:337:ILE:HD13	14:l2:210:PHE:CD2	2.37	0.60
12:c7:115:LEU:HD11	14:f1:427:MET:CG	2.31	0.60
14:d0:96:VAL:CG2	14:d0:177:PHE:CD2	2.84	0.60
14:e6:63:ASN:ND2	14:e6:63:ASN:H	1.99	0.60
14:f8:60:ILE:HD11	14:f8:165:LEU:HD21	1.83	0.60
14:h5:329:ARG:NH2	14:h5:333:TYR:CD2	2.70	0.60
14:h8:96:VAL:HG22	14:h8:177:PHE:HD1	1.66	0.60
14:i1:158:THR:CB	14:i1:363:ARG:CZ	2.80	0.60
14:i7:182:GLN:HB2	14:i7:188:TYR:CD2	2.37	0.60
14:j6:67:ILE:CG2	14:j6:208:TYR:CD2	2.85	0.60
14:k8:329:ARG:NH2	14:k8:333:TYR:CD2	2.70	0.60
14:k9:260:LYS:CE	14:k9:421:TYR:OH	2.50	0.60
4:a4:108:PHE:HD2	4:a4:132:LYS:HA	1.65	0.60
5:a5:143:MET:CE	14:g3:170:TYR:CG	2.78	0.60
5:a5:151:PHE:CZ	5:a5:153:LEU:HD11	2.37	0.60
9:b8:175:TYR:CD2	14:g6:61:SER:HB2	2.36	0.60
12:c8:85:PHE:CE2	14:i2:375:ASP:OD1	2.55	0.60
14:d1:188:TYR:CD1	14:d1:193:ALA:HA	2.37	0.60
14:d2:325:ARG:NH1	14:i8:4:GLY:HA2	2.17	0.60
14:f2:33:ARG:HD2	14:i0:20:GLY:O	2.01	0.60
14:f7:17:TYR:HE2	14:i5:435:TYR:HH	0.70	0.60
14:g2:427:MET:CE	9:l5:152:GLN:HB3	2.31	0.60
14:h6:188:TYR:CD2	14:h6:193:ALA:HA	2.36	0.60
14:i4:329:ARG:NH2	14:i4:333:TYR:CE1	2.69	0.60
14:i8:90:GLU:OE1	14:i8:114:ARG:CA	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j3:67:ILE:CG2	14:j3:208:TYR:CE2	2.85	0.60
10:b6:215:HIS:CD2	14:d6:62:ARG:HB3	2.36	0.59
9:b7:155:LEU:HD21	14:j5:220:ALA:CB	2.31	0.59
11:c3:58:GLN:NE2	14:e4:217:THR:CG2	2.65	0.59
14:d5:40:GLU:HB3	14:d5:210:PHE:HE1	1.66	0.59
14:d9:427:MET:CE	15:l4:47:TRP:CD2	2.85	0.59
14:e6:28:LYS:CD	14:k2:226:TYR:CE1	2.85	0.59
14:f4:265:ASN:HB2	14:f4:275:TYR:HD1	1.66	0.59
14:h0:67:ILE:CG2	14:h0:208:TYR:CD1	2.85	0.59
14:h1:252:ARG:N	14:h1:252:ARG:HD2	2.17	0.59
14:i1:243:ALA:HA	14:i1:386:CYS:O	2.02	0.59
14:i9:260:LYS:HZ1	14:i9:357:ALA:HB1	1.66	0.59
14:j1:260:LYS:CE	14:j1:421:TYR:CE1	2.85	0.59
14:j5:313:LEU:HB3	14:j5:352:TYR:CZ	2.38	0.59
14:k6:182:GLN:HB2	14:k6:188:TYR:CD2	2.36	0.59
3:a3:279:TRP:HB2	14:i7:423:VAL:CG2	2.32	0.59
9:c1:192:MET:CB	14:e8:436:ALA:HB2	2.27	0.59
14:d1:209:ILE:HG23	14:f9:27:PHE:CZ	2.36	0.59
14:d3:260:LYS:HB2	14:d3:421:TYR:CE1	2.36	0.59
14:d6:121:ARG:NH2	14:d6:129:TYR:CE1	2.69	0.59
14:d6:182:GLN:HB2	14:d6:188:TYR:CD1	2.37	0.59
14:e0:67:ILE:CG2	14:e0:208:TYR:CE2	2.84	0.59
14:f2:114:ARG:HA	14:f2:114:ARG:HE	1.67	0.59
14:f7:114:ARG:HA	14:f7:114:ARG:HE	1.68	0.59
14:g2:17:TYR:OH	14:j0:425:ARG:NH2	2.35	0.59
14:g8:241:PRO:HG2	14:g8:386:CYS:SG	2.41	0.59
14:j8:96:VAL:HG22	14:j8:177:PHE:CD1	2.37	0.59
14:k2:96:VAL:HG22	14:k2:177:PHE:CD1	2.37	0.59
12:c8:99:LEU:N	14:l0:169:GLN:O	2.35	0.59
14:f1:206:VAL:HB	14:f1:208:TYR:CE2	2.37	0.59
14:h3:206:VAL:HG11	14:h3:208:TYR:CZ	2.37	0.59
14:h4:66:LEU:HD12	14:k2:27:PHE:CD1	2.37	0.59
14:j3:243:ALA:HA	14:j3:386:CYS:O	2.01	0.59
14:j7:60:ILE:HD12	14:j7:67:ILE:HD13	1.83	0.59
14:k3:363:ARG:HA	14:k3:363:ARG:HE	1.67	0.59
4:a4:142:MET:HG2	4:a4:154:TRP:HB3	1.84	0.59
10:b6:221:LEU:CD2	14:g4:9:VAL:HG12	2.33	0.59
14:f4:265:ASN:ND2	14:f4:275:TYR:HE1	2.00	0.59
14:f5:188:TYR:CE1	14:f5:193:ALA:HB2	2.37	0.59
14:i5:121:ARG:NH2	14:i5:129:TYR:CE1	2.70	0.59
14:i7:99:GLU:OE2	14:i7:102:GLY:CA	2.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j1:430:MET:SD	9:l5:191:TRP:HZ3	2.25	0.59
14:j3:67:ILE:HG21	14:j3:208:TYR:CE2	2.37	0.59
14:k4:329:ARG:NH2	14:k4:333:TYR:CE2	2.70	0.59
14:k9:329:ARG:NH2	14:k9:333:TYR:CE2	2.70	0.59
9:b3:175:TYR:HE1	14:g9:375:ASP:HB3	1.67	0.59
10:b6:297:ARG:HH11	14:e9:256:ASN:HD22	1.49	0.59
10:b6:318:TYR:CD2	14:l3:5:LEU:HD21	2.35	0.59
12:c7:164:GLN:O	12:c7:164:GLN:HG2	2.03	0.59
14:f8:215:GLU:OE2	14:i6:25:THR:HG22	2.01	0.59
14:g4:67:ILE:CG2	14:g4:208:TYR:CD2	2.86	0.59
14:g5:226:TYR:CE2	14:g5:426:ILE:HD13	2.37	0.59
14:i5:252:ARG:HD3	14:k5:252:ARG:HD3	0.71	0.59
14:i7:363:ARG:HA	14:i7:363:ARG:HE	1.68	0.59
14:j1:430:MET:HG3	9:l5:191:TRP:HZ3	1.68	0.59
14:j2:182:GLN:CB	14:j2:188:TYR:CD1	2.86	0.59
14:l3:188:TYR:CD2	14:l3:193:ALA:HA	2.38	0.59
6:a6:4:THR:HB	6:a6:39:TRP:CE3	2.36	0.59
11:c3:9:ALA:CB	14:e4:170:TYR:CE1	2.84	0.59
13:c9:19:TYR:CD2	13:c9:20:LYS:O	2.56	0.59
14:d7:182:GLN:HB2	14:d7:188:TYR:CD2	2.38	0.59
14:d8:182:GLN:HB2	14:d8:188:TYR:CD1	2.37	0.59
14:g6:66:LEU:HD13	14:j4:27:PHE:HB3	1.85	0.59
14:h1:182:GLN:CB	14:h1:188:TYR:CD2	2.84	0.59
14:i1:226:TYR:CE2	14:k9:28:LYS:CD	2.85	0.59
14:k4:121:ARG:NH1	14:k4:129:TYR:CZ	2.70	0.59
2:a1:154:LEU:CD2	3:a2:206:MET:CB	2.75	0.59
7:a7:85:TYR:CE2	7:a7:90:VAL:CG2	2.86	0.59
12:c6:33:TYR:OH	14:f5:427:MET:HE2	2.03	0.59
14:d8:27:PHE:CE1	14:j4:209:ILE:CG1	2.84	0.59
14:f9:99:GLU:OE1	14:f9:102:GLY:CA	2.40	0.59
14:g5:169:GLN:CD	9:l5:183:ILE:HD13	2.27	0.59
14:h7:145:LYS:HD3	14:h7:147:PHE:CE2	2.37	0.59
14:i7:329:ARG:NH2	14:i7:333:TYR:CE2	2.71	0.59
14:j8:265:ASN:HB2	14:j8:275:TYR:CD1	2.38	0.59
14:j9:187:ASN:ND2	14:j9:188:TYR:CE1	2.71	0.59
14:k8:260:LYS:CD	14:k8:421:TYR:CZ	2.80	0.59
3:a2:272:THR:O	3:a2:272:THR:HG22	2.03	0.59
10:b6:306:ILE:HG13	14:k6:64:GLY:O	2.03	0.59
12:c6:117:ARG:HH12	14:f1:5:LEU:CD1	2.14	0.59
14:e6:363:ARG:HA	14:e6:363:ARG:HE	1.68	0.59
14:f1:363:ARG:HA	14:f1:363:ARG:HE	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f2:60:ILE:CD1	14:f2:165:LEU:CD2	2.76	0.59
14:f3:67:ILE:HG22	14:f3:208:TYR:CD2	2.38	0.59
14:f5:34:TYR:HE1	14:l1:365:PRO:HB2	1.68	0.59
14:g5:67:ILE:HG21	14:g5:208:TYR:CE1	2.38	0.59
14:g8:67:ILE:CG2	14:g8:208:TYR:CE1	2.86	0.59
14:h0:206:VAL:HB	14:h0:208:TYR:CE2	2.37	0.59
14:i5:175:LEU:HD13	14:i5:177:PHE:HZ	1.67	0.59
14:i6:90:GLU:OE2	14:i6:129:TYR:HE2	1.86	0.59
14:k4:121:ARG:NH2	14:k4:129:TYR:CE1	2.71	0.59
10:b6:291:ARG:CD	14:k3:256:ASN:OD1	2.50	0.59
10:b6:300:GLU:H	14:e9:436:ALA:HB3	1.67	0.59
11:c3:22:THR:OG1	14:k0:321:ASN:ND2	2.35	0.59
11:c5:42:PRO:HG2	14:f0:11:TYR:CE1	2.33	0.59
14:e4:27:PHE:HE2	14:k0:209:ILE:CD1	2.16	0.59
14:f6:211:LEU:HD22	14:f6:215:GLU:OE2	2.03	0.59
14:f8:67:ILE:CG2	14:f8:208:TYR:HD2	2.13	0.59
14:l2:96:VAL:HG23	14:l2:177:PHE:CE1	2.38	0.59
2:a1:166:GLN:HE21	14:d2:103:GLN:HB2	1.65	0.59
9:b4:175:TYR:CD1	14:d9:321:ASN:CB	2.86	0.59
11:c3:58:GLN:NE2	14:e4:217:THR:HG21	2.17	0.59
12:c7:59:SER:CB	14:f4:169:GLN:CD	2.76	0.59
12:c7:158:ALA:HB1	14:e5:5:LEU:HD13	1.85	0.59
14:f5:363:ARG:HA	14:f5:363:ARG:HE	1.65	0.59
14:g1:187:ASN:ND2	14:g1:188:TYR:CE2	2.71	0.59
14:i5:229:GLU:OE2	14:i5:363:ARG:NH2	2.35	0.59
14:k1:158:THR:HG21	14:k1:363:ARG:NE	2.18	0.59
2:a1:186:LEU:CD2	14:i6:433:LEU:O	2.50	0.58
14:d1:96:VAL:HG22	14:d1:177:PHE:CD1	2.36	0.58
14:d2:260:LYS:HD3	14:d2:421:TYR:OH	2.03	0.58
14:f0:114:ARG:HA	14:f0:114:ARG:HE	1.68	0.58
14:f0:121:ARG:NH1	14:f0:129:TYR:CZ	2.70	0.58
14:f8:60:ILE:CD1	14:f8:165:LEU:CD2	2.81	0.58
14:g1:188:TYR:CD1	14:g1:193:ALA:HA	2.38	0.58
14:i2:260:LYS:HD3	14:i2:360:PRO:C	2.28	0.58
14:k9:166:ILE:CD1	14:k9:219:PHE:HB2	2.33	0.58
9:b0:192:MET:CG	14:l3:103:GLN:HE22	2.16	0.58
12:c7:166:LEU:HB2	14:h3:373:ARG:NH2	2.15	0.58
14:d2:20:GLY:O	14:i8:33:ARG:HD2	2.02	0.58
14:e1:90:GLU:OE1	14:e1:114:ARG:N	2.36	0.58
14:e1:90:GLU:OE1	14:e1:114:ARG:HA	2.03	0.58
14:f2:243:ALA:N	14:f2:386:CYS:SG	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f7:121:ARG:NH2	14:f7:129:TYR:CE1	2.70	0.58
14:f7:182:GLN:CB	14:f7:188:TYR:CD2	2.86	0.58
14:i6:121:ARG:NH1	14:i6:129:TYR:CZ	2.71	0.58
14:i8:219:PHE:HE1	14:i8:226:TYR:OH	1.87	0.58
14:j7:60:ILE:HD11	14:j7:173:VAL:CG1	2.33	0.58
14:k3:182:GLN:HB2	14:k3:188:TYR:CD1	2.38	0.58
2:a1:185:PHE:CZ	14:i6:425:ARG:HD2	2.35	0.58
3:a3:286:LEU:HD23	14:f9:22:PRO:N	2.18	0.58
5:a5:32:PHE:CD2	14:d6:427:MET:HE3	2.37	0.58
5:a5:95:THR:CG2	5:a5:96:ASP:N	2.65	0.58
9:b1:161:ILE:HG12	14:j3:16:VAL:HG21	1.83	0.58
9:b2:175:TYR:HD1	14:e0:321:ASN:HB3	1.69	0.58
12:c7:72:GLN:CB	14:i3:436:ALA:HA	2.34	0.58
14:d4:20:GLY:O	14:j0:33:ARG:CD	2.42	0.58
14:e1:60:ILE:HD11	14:e1:173:VAL:CB	2.31	0.58
14:e4:188:TYR:CD1	14:e4:193:ALA:HA	2.38	0.58
14:e5:27:PHE:CE2	14:k1:209:ILE:CB	2.86	0.58
14:f8:206:VAL:HB	14:f8:208:TYR:CZ	2.38	0.58
14:g2:320:LEU:HD13	14:g2:374:ILE:HD13	1.84	0.58
14:g3:209:ILE:HG21	14:j1:27:PHE:CD1	2.29	0.58
14:h7:114:ARG:HA	14:h7:114:ARG:HE	1.68	0.58
14:i4:329:ARG:CZ	14:i4:333:TYR:CD1	2.86	0.58
14:k1:260:LYS:HB2	14:k1:421:TYR:CE1	2.38	0.58
14:k3:96:VAL:HG13	14:k3:177:PHE:CE1	2.38	0.58
3:a3:233:MET:HG2	14:i7:24:ILE:HD13	1.85	0.58
4:a4:109:VAL:HG22	4:a4:136:VAL:HG22	1.84	0.58
5:a5:95:THR:CG2	5:a5:96:ASP:H	2.16	0.58
9:b2:175:TYR:CD1	14:e0:321:ASN:C	2.81	0.58
10:b6:243:THR:CG2	14:j3:169:GLN:O	2.34	0.58
9:b8:205:LEU:O	9:b8:205:LEU:HD23	2.03	0.58
11:c2:67:THR:CG2	14:k0:217:THR:HG22	2.31	0.58
12:c7:81:SER:HB2	14:k8:373:ARG:O	2.03	0.58
14:d6:40:GLU:HB3	14:d6:210:PHE:HE1	1.68	0.58
14:e0:90:GLU:OE1	14:e0:114:ARG:CA	2.50	0.58
14:e4:27:PHE:CZ	14:k0:209:ILE:HG12	2.38	0.58
14:f0:60:ILE:CG1	14:f0:173:VAL:HB	2.33	0.58
14:f3:308:GLU:OE2	14:f3:332:SER:HB3	2.03	0.58
14:f8:182:GLN:CB	14:f8:188:TYR:CD1	2.87	0.58
14:h3:260:LYS:HD3	14:h3:421:TYR:CZ	2.38	0.58
14:j5:329:ARG:CZ	14:j5:333:TYR:CD2	2.86	0.58
14:j7:226:TYR:CD1	14:j7:426:ILE:HD13	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j8:329:ARG:NH2	14:j8:333:TYR:CD2	2.71	0.58
14:k4:260:LYS:HD3	14:k4:421:TYR:CZ	2.37	0.58
8:a8:124:LEU:HD11	11:c3:65:GLY:N	2.18	0.58
10:b6:233:LEU:HD23	14:d7:9:VAL:O	2.04	0.58
10:b6:282:ALA:O	14:k3:171:HIS:NE2	2.34	0.58
9:b7:154:PHE:HA	14:d8:430:MET:CE	2.34	0.58
14:j6:188:TYR:CE2	14:j6:193:ALA:HB2	2.39	0.58
14:j7:60:ILE:CD1	14:j7:165:LEU:HD21	2.32	0.58
15:l4:96:TYR:O	15:l4:97:THR:C	2.46	0.58
12:c7:150:ALA:HB3	14:k1:169:GLN:OE1	2.03	0.58
14:d0:182:GLN:HB2	14:d0:188:TYR:CD2	2.38	0.58
14:d8:67:ILE:CG2	14:d8:208:TYR:CE2	2.87	0.58
14:f5:96:VAL:HG22	14:f5:177:PHE:HD2	1.66	0.58
14:f7:260:LYS:CE	14:f7:357:ALA:HB1	2.32	0.58
14:g8:188:TYR:CD2	14:g8:193:ALA:HA	2.38	0.58
11:c4:8:THR:O	14:e6:169:GLN:O	2.21	0.58
12:c6:90:THR:OG1	14:l2:9:VAL:HG21	2.04	0.58
14:d4:182:GLN:HB2	14:d4:188:TYR:CD2	2.38	0.58
14:d8:17:TYR:OH	14:g6:227:LEU:HB2	2.03	0.58
14:e3:211:LEU:HD13	14:e3:215:GLU:HG2	1.85	0.58
14:g8:4:GLY:HA2	14:j6:325:ARG:CZ	2.34	0.58
14:g9:14:GLN:CG	14:j7:435:TYR:CD1	2.86	0.58
14:h7:182:GLN:HB2	14:h7:188:TYR:CD2	2.39	0.58
14:h8:219:PHE:HE1	14:h8:226:TYR:OH	1.86	0.58
14:h9:175:LEU:HD13	14:h9:177:PHE:CZ	2.36	0.58
14:i1:158:THR:CB	14:i1:363:ARG:NH1	2.64	0.58
14:i1:211:LEU:HD13	14:i1:215:GLU:HG2	1.86	0.58
14:i2:256:ASN:OD1	14:i2:257:HIS:CD2	2.53	0.58
14:j8:60:ILE:HG13	14:j8:60:ILE:O	2.04	0.58
14:k4:90:GLU:OE2	14:k4:129:TYR:CE2	2.57	0.58
14:k8:99:GLU:OE2	14:k8:102:GLY:O	2.21	0.58
3:a2:273:ALA:HA	14:d1:434:ALA:O	2.03	0.58
5:a5:151:PHE:CG	10:b6:193:THR:O	2.57	0.58
12:c6:117:ARG:NH1	14:f1:5:LEU:CD1	2.66	0.58
12:c7:75:THR:HG22	14:i3:435:TYR:CD1	2.39	0.58
14:f6:258:PRO:CD	14:l2:14:GLN:HE21	2.09	0.58
14:g5:175:LEU:HD13	14:g5:177:PHE:HZ	1.69	0.58
14:h1:329:ARG:NH1	14:h1:333:TYR:CZ	2.72	0.58
14:h3:17:TYR:HE2	14:k1:435:TYR:OH	1.86	0.58
14:h5:11:TYR:CE1	14:h5:15:ASP:CB	2.86	0.58
14:h6:426:ILE:O	14:h6:427:MET:CG	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i8:5:LEU:HD22	14:i8:8:LEU:HD21	1.85	0.58
14:j3:60:ILE:CG1	14:j3:173:VAL:HB	2.33	0.58
5:a5:62:THR:CA	14:g3:427:MET:HE1	2.34	0.58
10:b6:297:ARG:NH1	14:h8:321:ASN:O	2.37	0.58
11:c2:18:GLN:HA	14:i0:433:LEU:O	2.03	0.58
14:d0:27:PHE:CD1	14:i6:66:LEU:HD12	2.39	0.58
14:f7:260:LYS:HB2	14:f7:421:TYR:CE1	2.38	0.58
14:g1:206:VAL:HB	14:g1:208:TYR:CE1	2.39	0.58
14:h0:121:ARG:CZ	14:h0:129:TYR:CD1	2.87	0.58
14:i4:114:ARG:HA	14:i4:114:ARG:HE	1.67	0.58
14:j7:226:TYR:CD1	14:j7:426:ILE:CD1	2.87	0.58
14:j9:260:LYS:HB2	14:j9:421:TYR:CE2	2.39	0.58
14:l1:182:GLN:HB2	14:l1:188:TYR:CD2	2.39	0.58
3:a2:262:GLU:OE1	14:i6:30:VAL:HG11	2.04	0.58
9:a9:162:GLY:HA3	14:i5:436:ALA:N	2.18	0.58
14:d2:27:PHE:CD1	14:i8:209:ILE:HG21	2.34	0.58
14:g9:17:TYR:HE2	14:j7:435:TYR:CE2	2.22	0.58
14:h8:308:GLU:OE1	14:h8:336:LYS:NZ	2.36	0.58
14:i7:114:ARG:HH12	14:i7:118:ALA:HB2	1.68	0.58
14:i9:182:GLN:CB	14:i9:188:TYR:CD2	2.87	0.58
14:j1:329:ARG:NH2	14:j1:333:TYR:CE1	2.71	0.58
14:j4:226:TYR:CD2	14:j4:426:ILE:HD13	2.39	0.58
14:j5:96:VAL:HG22	14:j5:177:PHE:CD2	2.39	0.58
14:l1:114:ARG:HA	14:l1:114:ARG:HE	1.69	0.58
3:a2:252:PHE:CE1	14:d0:364:GLN:HG2	2.39	0.57
13:c9:75:PHE:CD2	9:l5:149:LEU:HD11	2.39	0.57
14:g3:114:ARG:HA	14:g3:114:ARG:HE	1.68	0.57
14:g4:260:LYS:HD3	14:g4:421:TYR:CZ	2.38	0.57
14:g8:423:VAL:HB	14:g8:434:ALA:CB	2.34	0.57
14:j1:266:PHE:HE2	14:j1:383:TYR:HH	1.50	0.57
14:k9:256:ASN:CG	14:k9:257:HIS:CD2	2.82	0.57
9:b5:191:TRP:O	14:i9:433:LEU:O	2.23	0.57
9:b8:168:SER:OG	9:b8:196:VAL:O	2.22	0.57
11:c5:15:ASP:CB	14:h5:5:LEU:HD11	2.34	0.57
14:d1:61:SER:OG	14:d1:63:ASN:ND2	2.37	0.57
14:d2:211:LEU:HD22	14:d2:215:GLU:OE1	2.03	0.57
14:g3:66:LEU:HD12	14:j1:27:PHE:CD1	2.39	0.57
14:g9:182:GLN:HB3	14:g9:188:TYR:CE2	2.39	0.57
14:h4:329:ARG:NH1	14:k2:41:SER:OG	2.37	0.57
14:h6:329:ARG:NH1	14:k4:41:SER:OG	2.36	0.57
14:j3:60:ILE:HG12	14:j3:173:VAL:HB	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k2:99:GLU:OE2	14:k2:102:GLY:CA	2.49	0.57
14:k5:265:ASN:HB2	14:k5:275:TYR:HD1	1.70	0.57
14:l2:170:TYR:HD2	14:l2:429:GLY:HA3	1.68	0.57
3:a2:271:GLY:O	14:d1:435:TYR:HE1	1.88	0.57
9:b3:161:ILE:O	14:g9:436:ALA:CB	2.52	0.57
10:b6:233:LEU:CD2	14:d7:9:VAL:HG23	2.17	0.57
9:b8:205:LEU:CD1	14:d3:9:VAL:HB	2.33	0.57
14:e0:17:TYR:OH	14:g8:425:ARG:NH2	2.37	0.57
14:e8:33:ARG:HD2	14:h6:20:GLY:O	2.05	0.57
14:h7:256:ASN:ND2	14:h7:437:ASN:CG	2.61	0.57
14:i5:260:LYS:HB2	14:i5:421:TYR:HE1	1.69	0.57
14:l2:243:ALA:HA	14:l2:386:CYS:O	2.04	0.57
5:a5:199:PHE:HE1	14:d5:35:THR:CG2	2.17	0.57
12:c6:90:THR:OG1	14:l2:9:VAL:CB	2.52	0.57
14:d1:260:LYS:HD3	14:d1:421:TYR:CZ	2.38	0.57
14:e5:27:PHE:HE2	14:k1:209:ILE:CB	2.18	0.57
14:f6:252:ARG:CD	14:k7:252:ARG:HH11	2.18	0.57
14:i5:363:ARG:HA	14:i5:363:ARG:HE	1.69	0.57
14:i7:99:GLU:OE1	14:i7:104:ARG:NH1	2.36	0.57
14:i7:260:LYS:HE3	14:i7:360:PRO:O	2.04	0.57
14:j3:280:ASN:OD1	14:j3:289:GLY:HA2	2.04	0.57
14:k7:187:ASN:ND2	14:k7:188:TYR:CE1	2.73	0.57
10:b6:306:ILE:CD1	14:k6:65:ASP:OD1	2.45	0.57
11:c5:6:ARG:HB2	14:k2:62:ARG:HD2	1.85	0.57
14:e1:260:LYS:CE	14:e1:357:ALA:CB	2.83	0.57
14:e9:260:LYS:CD	14:e9:360:PRO:HA	2.28	0.57
14:g0:182:GLN:CB	14:g0:188:TYR:CD1	2.87	0.57
14:g0:329:ARG:CZ	14:g0:333:TYR:CE1	2.87	0.57
14:g1:182:GLN:CB	14:g1:188:TYR:CD2	2.88	0.57
14:g5:182:GLN:HB3	14:g5:188:TYR:CE2	2.40	0.57
14:h0:329:ARG:NH2	14:h0:333:TYR:CD2	2.72	0.57
14:h7:145:LYS:HG3	14:h7:147:PHE:CE1	2.39	0.57
14:k8:260:LYS:CD	14:k8:421:TYR:OH	2.34	0.57
14:l2:40:GLU:HB3	14:l2:210:PHE:HE1	1.70	0.57
14:l3:329:ARG:NH1	14:l3:333:TYR:CZ	2.70	0.57
2:a1:157:VAL:HG12	3:a2:282:ILE:HG21	1.86	0.57
2:a1:162:ASN:HB3	14:d2:425:ARG:HH22	1.70	0.57
4:a4:146:ASN:O	4:a4:152:TRP:N	2.37	0.57
5:a5:60:PRO:HB3	10:b6:194:GLU:CB	2.35	0.57
10:b6:323:ARG:O	14:f7:375:ASP:N	2.35	0.57
14:e4:209:ILE:CG1	14:h2:27:PHE:HE1	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e5:4:GLY:HA2	14:h3:325:ARG:NH1	2.19	0.57
14:e6:40:GLU:HB3	14:e6:210:PHE:HE1	1.68	0.57
14:e6:61:SER:HB3	14:e6:63:ASN:HD21	1.54	0.57
14:e8:252:ARG:HH11	14:h7:252:ARG:NH1	2.02	0.57
14:i5:40:GLU:HB3	14:i5:210:PHE:CE1	2.34	0.57
14:j8:252:ARG:NH1	14:j8:254:ASN:OD1	2.38	0.57
14:k1:96:VAL:HG23	14:k1:177:PHE:CE2	2.38	0.57
2:a1:154:LEU:HA	3:a2:284:TYR:HE2	1.69	0.57
5:a5:122:SER:HB2	10:b6:187:TYR:OH	2.04	0.57
9:b0:151:ALA:CB	14:f7:429:GLY:HA3	2.33	0.57
9:b5:181:PRO:HD3	14:g7:216:ARG:HH12	1.69	0.57
10:b6:215:HIS:CG	14:d6:62:ARG:HD2	2.39	0.57
14:e0:60:ILE:HG23	14:e0:208:TYR:HH	1.67	0.57
14:f7:260:LYS:HB2	14:f7:421:TYR:HE1	1.69	0.57
14:h5:11:TYR:CE1	14:h5:15:ASP:HB3	2.39	0.57
14:h5:96:VAL:HG22	14:h5:177:PHE:HD2	1.70	0.57
14:h6:60:ILE:HD11	14:h6:173:VAL:CG1	2.35	0.57
14:i5:329:ARG:CZ	14:i5:333:TYR:CD2	2.86	0.57
14:k0:67:ILE:CG2	14:k0:208:TYR:CD2	2.88	0.57
14:k1:175:LEU:HD13	14:k1:177:PHE:CZ	2.35	0.57
14:k4:260:LYS:HB2	14:k4:421:TYR:HE1	1.69	0.57
14:k9:166:ILE:HD12	14:k9:219:PHE:CB	2.33	0.57
6:a6:13:SER:O	6:a6:16:ARG:HG3	2.05	0.57
9:b3:164:ASN:OD1	14:g9:437:ASN:OD1	2.23	0.57
9:b3:192:MET:HE2	14:j8:436:ALA:HA	1.86	0.57
9:b4:161:ILE:HG13	14:d9:430:MET:HB3	1.86	0.57
11:c2:67:THR:CG2	14:k0:217:THR:CG2	2.83	0.57
12:c6:42:PRO:HD2	14:f5:170:TYR:HE1	1.65	0.57
14:d4:21:ASN:O	14:j0:33:ARG:CD	2.48	0.57
14:d4:188:TYR:CD1	14:d4:193:ALA:HA	2.40	0.57
14:d9:182:GLN:CB	14:d9:188:TYR:CD2	2.88	0.57
14:f8:308:GLU:OE1	14:f8:336:LYS:NZ	2.37	0.57
14:f9:175:LEU:HB3	14:f9:177:PHE:CZ	2.40	0.57
14:g2:222:LEU:HD22	9:l5:151:ALA:HB1	1.86	0.57
14:g2:321:ASN:CB	9:l5:175:TYR:HE1	2.14	0.57
14:j1:182:GLN:HB2	14:j1:188:TYR:CD1	2.39	0.57
14:j4:182:GLN:CB	14:j4:188:TYR:CD2	2.87	0.57
14:k5:100:ILE:CB	14:k5:105:ILE:CD1	2.77	0.57
3:a2:222:ILE:CD1	14:d1:428:SER:HB2	2.35	0.57
3:a3:286:LEU:HD23	14:f9:22:PRO:HD3	1.82	0.57
8:a8:109:GLU:OE2	14:f3:5:LEU:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c2:26:LEU:CD2	14:f2:13:ALA:N	2.64	0.57
12:c6:115:LEU:CD1	14:f0:427:MET:HE3	2.30	0.57
12:c8:85:PHE:CE2	14:i2:375:ASP:CG	2.83	0.57
12:c8:85:PHE:HE2	14:i2:375:ASP:CG	2.12	0.57
13:c9:94:VAL:O	9:l5:165:THR:HA	2.04	0.57
14:d2:243:ALA:HA	14:d2:386:CYS:O	2.05	0.57
14:e1:182:GLN:HB2	14:e1:188:TYR:CD2	2.39	0.57
14:g9:187:ASN:ND2	14:g9:188:TYR:CE2	2.73	0.57
14:h7:312:VAL:HG12	14:h7:408:ALA:HB1	1.85	0.57
14:k5:105:ILE:HA	14:k5:433:LEU:HD11	1.86	0.57
14:k7:164:PRO:HG3	14:k7:226:TYR:CE1	2.40	0.57
14:l0:90:GLU:OE1	14:l0:114:ARG:N	2.38	0.57
2:a1:185:PHE:HE2	14:i6:425:ARG:CD	2.09	0.57
9:b3:164:ASN:ND2	14:h0:9:VAL:CG1	2.65	0.57
9:b7:155:LEU:HD11	14:j5:220:ALA:HB3	1.87	0.57
11:c2:26:LEU:HD13	14:i0:373:ARG:HD3	1.87	0.57
14:d2:211:LEU:HD22	14:d2:215:GLU:OE2	2.04	0.57
14:d6:90:GLU:OE2	14:d6:129:TYR:CE2	2.58	0.57
14:e4:260:LYS:CE	14:e4:357:ALA:HB1	2.35	0.57
14:e5:252:ARG:HH12	14:j6:252:ARG:HD3	1.67	0.57
14:f0:206:VAL:HB	14:f0:208:TYR:HE1	1.68	0.57
14:f2:175:LEU:HD13	14:f2:177:PHE:HZ	1.70	0.57
14:f6:252:ARG:HD3	14:k7:252:ARG:NH1	2.17	0.57
14:i2:187:ASN:ND2	14:i2:188:TYR:CE1	2.72	0.57
14:k4:90:GLU:OE2	14:k4:129:TYR:HE2	1.86	0.57
9:b8:193:MET:O	14:j0:436:ALA:N	2.28	0.56
11:c3:42:PRO:HB2	14:i1:11:TYR:CE1	2.40	0.56
14:f4:175:LEU:HB3	14:f4:177:PHE:CZ	2.40	0.56
14:f9:114:ARG:HA	14:f9:114:ARG:HE	1.67	0.56
14:f9:260:LYS:HD3	14:f9:421:TYR:CE1	2.40	0.56
14:g0:188:TYR:CD2	14:g0:193:ALA:HA	2.40	0.56
14:g8:145:LYS:HB3	14:g8:147:PHE:CE2	2.40	0.56
14:h5:329:ARG:NH1	14:h5:333:TYR:CZ	2.72	0.56
14:h8:33:ARG:HD2	14:k6:20:GLY:O	2.04	0.56
14:i3:363:ARG:HA	14:i3:363:ARG:HE	1.70	0.56
14:k1:188:TYR:CD2	14:k1:193:ALA:HA	2.40	0.56
14:k3:329:ARG:NH1	14:k3:333:TYR:CZ	2.73	0.56
14:k5:60:ILE:HD11	14:k5:173:VAL:HB	1.87	0.56
5:a5:210:TYR:OH	13:c9:120:LYS:NZ	2.29	0.56
7:a7:124:TRP:HB3	9:b1:162:GLY:HA3	1.87	0.56
12:c7:69:VAL:HG21	14:i3:430:MET:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f0:182:GLN:CB	14:f0:188:TYR:CD2	2.88	0.56
14:f2:114:ARG:NH1	14:f2:118:ALA:HB2	2.20	0.56
14:f2:188:TYR:CD2	14:f2:193:ALA:HA	2.39	0.56
14:g1:33:ARG:HD2	14:i9:20:GLY:O	2.05	0.56
14:i1:260:LYS:CD	14:i1:421:TYR:OH	2.28	0.56
14:k4:329:ARG:NH1	14:k4:333:TYR:CZ	2.73	0.56
3:a3:286:LEU:HD21	14:f9:22:PRO:HA	1.86	0.56
5:a5:143:MET:HE3	14:g3:170:TYR:CE1	2.40	0.56
9:b3:164:ASN:HD21	14:h0:9:VAL:HG13	1.65	0.56
9:b3:166:GLN:HE21	14:g9:372:SER:CB	2.19	0.56
10:b6:190:VAL:HG13	14:g3:430:MET:HE2	1.80	0.56
10:b6:240:GLY:O	14:j2:171:HIS:HD2	1.87	0.56
10:b6:247:LYS:HB3	14:j3:170:TYR:O	2.06	0.56
10:b6:286:TYR:HE2	14:h7:63:ASN:O	1.87	0.56
12:c7:71:VAL:O	12:c7:71:VAL:HG12	2.03	0.56
12:c7:159:GLY:HA3	14:e6:436:ALA:HB2	1.87	0.56
14:e8:188:TYR:CD2	14:e8:193:ALA:HA	2.39	0.56
14:f4:90:GLU:HG2	14:f4:272:TYR:OH	2.06	0.56
14:f9:260:LYS:HB2	14:f9:421:TYR:CE1	2.40	0.56
14:g6:66:LEU:CD1	14:j4:27:PHE:HB3	2.35	0.56
14:h4:215:GLU:CD	14:h4:218:ARG:HH21	2.13	0.56
14:h9:164:PRO:HG3	14:h9:226:TYR:CE1	2.40	0.56
14:i0:66:LEU:CD1	14:k8:27:PHE:CD1	2.87	0.56
14:i4:260:LYS:HB2	14:i4:421:TYR:HE1	1.69	0.56
14:i5:30:VAL:HG13	14:i5:30:VAL:O	2.04	0.56
14:i5:182:GLN:CB	14:i5:188:TYR:CD1	2.88	0.56
14:i6:306:TYR:OH	14:i6:346:VAL:HG13	2.06	0.56
14:i7:243:ALA:HA	14:i7:386:CYS:O	2.04	0.56
14:j9:435:TYR:O	14:j9:436:ALA:C	2.48	0.56
14:l0:40:GLU:HB3	14:l0:210:PHE:HE1	1.70	0.56
14:l0:260:LYS:HG2	14:l0:421:TYR:HE1	1.63	0.56
9:b2:175:TYR:CD1	14:e0:321:ASN:HA	2.41	0.56
10:b6:233:LEU:CD2	14:d7:10:ALA:HA	2.28	0.56
11:c4:42:PRO:HG2	14:f1:11:TYR:CE1	2.40	0.56
13:c9:130:ALA:O	9:l5:144:PHE:HZ	1.88	0.56
14:d3:363:ARG:HA	14:d3:363:ARG:HE	1.70	0.56
14:d6:114:ARG:NH2	14:d6:117:ASP:CG	2.63	0.56
14:d8:17:TYR:CE2	14:g6:227:LEU:CB	2.65	0.56
14:f6:182:GLN:CB	14:f6:188:TYR:CD1	2.88	0.56
14:g2:219:PHE:HA	14:g2:224:HIS:CE1	2.41	0.56
14:i1:308:GLU:OE1	14:i1:336:LYS:NZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j1:99:GLU:OE2	14:j1:102:GLY:C	2.49	0.56
14:l1:260:LYS:CD	14:l1:421:TYR:OH	2.46	0.56
2:a1:182:PHE:CZ	14:i6:431:GLY:O	2.57	0.56
5:a5:204:VAL:HG12	13:c9:72:TYR:CD1	2.40	0.56
9:b2:162:GLY:O	14:e0:436:ALA:CB	2.50	0.56
10:b6:252:GLN:HG2	14:j3:103:GLN:NE2	2.20	0.56
9:b7:175:TYR:HB3	14:i9:63:ASN:CG	2.30	0.56
14:f6:211:LEU:HD13	14:f6:215:GLU:CG	2.31	0.56
14:g5:211:LEU:HD13	14:g5:215:GLU:HG2	1.88	0.56
14:h2:265:ASN:HB2	14:h2:275:TYR:CD1	2.40	0.56
14:i6:329:ARG:CZ	14:i6:333:TYR:CD1	2.89	0.56
14:j1:430:MET:HG3	9:l5:191:TRP:CZ3	2.41	0.56
14:k4:121:ARG:CZ	14:k4:129:TYR:CD1	2.89	0.56
14:k7:96:VAL:HG23	14:k7:177:PHE:CD1	2.40	0.56
14:l0:260:LYS:HD3	14:l0:421:TYR:CZ	2.39	0.56
2:a1:154:LEU:HG	3:a2:284:TYR:OH	2.06	0.56
10:b6:206:PRO:HB3	14:d5:12:GLY:O	2.04	0.56
12:c8:115:LEU:HD21	14:f2:431:GLY:C	2.30	0.56
12:c8:115:LEU:CD2	14:f2:431:GLY:CA	2.83	0.56
12:c8:142:TRP:HZ2	14:k0:431:GLY:C	2.14	0.56
14:d0:182:GLN:CB	14:d0:188:TYR:CD2	2.89	0.56
14:e0:363:ARG:HA	14:e0:363:ARG:NE	2.20	0.56
14:e2:188:TYR:CE2	14:e2:193:ALA:HB2	2.41	0.56
14:f1:260:LYS:HD3	14:f1:360:PRO:C	2.30	0.56
14:f2:67:ILE:CG2	14:f2:208:TYR:CE2	2.89	0.56
14:f8:241:PRO:HB2	14:f8:386:CYS:SG	2.45	0.56
14:g2:4:GLY:HA2	14:j0:325:ARG:CZ	2.36	0.56
14:g8:423:VAL:HB	14:g8:434:ALA:HB2	1.88	0.56
14:i1:96:VAL:CG2	14:i1:177:PHE:CD2	2.88	0.56
14:j3:182:GLN:HB2	14:j3:188:TYR:CD1	2.40	0.56
14:k3:182:GLN:CB	14:k3:188:TYR:CD1	2.88	0.56
14:k9:175:LEU:HD13	14:k9:177:PHE:HZ	1.70	0.56
2:a1:162:ASN:O	14:d2:425:ARG:NH2	2.38	0.56
12:c8:123:LEU:CD1	14:i1:10:ALA:HA	2.34	0.56
14:d0:188:TYR:CD1	14:d0:193:ALA:HA	2.41	0.56
14:e1:229:GLU:HG2	14:e1:421:TYR:HE1	1.71	0.56
14:g4:265:ASN:HB2	14:g4:275:TYR:CD1	2.40	0.56
14:g7:308:GLU:OE1	14:g7:336:LYS:NZ	2.39	0.56
14:g9:67:ILE:HG21	14:g9:208:TYR:CE2	2.41	0.56
14:h0:187:ASN:ND2	14:h0:188:TYR:CE1	2.73	0.56
14:k6:265:ASN:HB2	14:k6:275:TYR:HD1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:a9:192:MET:HB3	14:k5:436:ALA:HB2	1.88	0.56
9:b4:192:MET:HG2	14:g8:103:GLN:HE22	1.71	0.56
10:b6:356:SER:OG	14:l2:435:TYR:HE1	1.87	0.56
9:c1:160:TRP:CZ3	14:h7:101:GLY:O	2.59	0.56
12:c7:150:ALA:HB3	14:k1:169:GLN:CD	2.31	0.56
14:e4:260:LYS:HB2	14:e4:421:TYR:HE1	1.70	0.56
14:e5:252:ARG:HH12	14:j6:252:ARG:CD	2.17	0.56
14:g6:67:ILE:CG2	14:g6:208:TYR:CD2	2.89	0.56
14:g8:260:LYS:HE2	14:g8:421:TYR:CZ	2.41	0.56
14:h6:426:ILE:C	14:h6:427:MET:HG3	2.30	0.56
14:k5:423:VAL:O	14:k5:434:ALA:N	2.39	0.56
2:a1:194:CYS:CB	2:a1:201:CYS:SG	2.94	0.56
10:b6:324:GLY:HA2	14:f7:374:ILE:HA	1.88	0.56
12:c7:78:CYS:HB2	12:c7:84:GLY:CA	2.35	0.56
14:d4:26:PHE:CE2	14:j0:34:TYR:HB3	2.40	0.56
14:d4:260:LYS:HE3	14:d4:360:PRO:O	1.97	0.56
14:d6:114:ARG:HA	14:d6:114:ARG:HE	1.71	0.56
14:d7:329:ARG:CZ	14:d7:333:TYR:CD1	2.89	0.56
14:e1:329:ARG:CZ	14:e1:333:TYR:CD2	2.89	0.56
14:f8:175:LEU:HB3	14:f8:177:PHE:CE2	2.41	0.56
14:h5:206:VAL:HB	14:h5:208:TYR:HE1	1.71	0.56
14:i3:312:VAL:CG1	14:i3:408:ALA:HB1	2.35	0.56
14:i6:121:ARG:NH2	14:i6:129:TYR:CE1	2.74	0.56
14:j8:230:GLN:NE2	14:j8:433:LEU:HD11	2.21	0.56
14:j8:329:ARG:NH2	14:j8:333:TYR:CE2	2.73	0.56
14:k0:182:GLN:HB2	14:k0:188:TYR:CD2	2.41	0.56
5:a5:195:PRO:HG2	14:g3:32:ARG:NH2	2.20	0.56
10:b6:273:GLU:HG3	14:k3:166:ILE:HD11	1.88	0.56
12:c7:147:VAL:CG2	14:h9:170:TYR:CE1	2.88	0.56
14:d0:330:LYS:HG3	14:f8:146:ARG:NE	2.21	0.56
14:d4:182:GLN:CB	14:d4:188:TYR:CD2	2.89	0.56
14:d8:114:ARG:HA	14:d8:114:ARG:HE	1.68	0.56
14:f3:132:MET:HE1	14:k9:340:TYR:CG	2.40	0.56
14:h0:30:VAL:HG13	14:h0:30:VAL:O	2.06	0.56
14:i1:4:GLY:HA2	14:k9:325:ARG:CZ	2.35	0.56
14:i5:252:ARG:HD2	14:k5:252:ARG:NE	2.21	0.56
14:i9:260:LYS:HB2	14:i9:421:TYR:HE1	1.71	0.56
14:j9:260:LYS:HB2	14:j9:421:TYR:HE2	1.71	0.56
14:k4:188:TYR:CE1	14:k4:193:ALA:HB2	2.41	0.56
14:k9:166:ILE:HD11	14:k9:219:PHE:CG	2.40	0.56
14:l3:329:ARG:NH2	14:l3:333:TYR:CD1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a3:279:TRP:CB	14:i7:423:VAL:HG21	2.36	0.55
10:b6:303:TYR:CD2	14:f0:5:LEU:HD22	2.40	0.55
12:c8:85:PHE:CZ	14:i2:375:ASP:HA	2.40	0.55
14:f5:34:TYR:CE1	14:l1:365:PRO:HB2	2.40	0.55
14:f7:206:VAL:HB	14:f7:208:TYR:CE1	2.41	0.55
14:g5:169:GLN:HB2	9:l5:183:ILE:HD13	1.86	0.55
14:g8:182:GLN:HB2	14:g8:188:TYR:CD1	2.41	0.55
14:i0:308:GLU:OE1	14:i0:336:LYS:NZ	2.40	0.55
14:j6:206:VAL:HB	14:j6:208:TYR:CE1	2.41	0.55
14:j8:60:ILE:HD12	14:j8:165:LEU:HD21	1.88	0.55
14:j8:423:VAL:HB	14:j8:434:ALA:CB	2.34	0.55
14:k3:30:VAL:HG13	14:k3:30:VAL:O	2.07	0.55
14:k3:329:ARG:NH2	14:k3:333:TYR:CD2	2.75	0.55
14:l2:312:VAL:CG1	14:l2:408:ALA:HB1	2.35	0.55
9:a9:199:ASN:OD1	14:i5:373:ARG:NH2	2.39	0.55
9:b5:178:ARG:HD2	14:j5:5:LEU:CD2	2.36	0.55
11:c4:11:ILE:N	14:e6:62:ARG:NH2	2.55	0.55
12:c7:152:ALA:O	14:k1:216:ARG:NH1	2.31	0.55
14:d0:215:GLU:OE2	14:d0:219:PHE:HE2	1.89	0.55
14:d3:20:GLY:O	14:i9:33:ARG:HD2	2.07	0.55
14:d3:175:LEU:HB3	14:d3:177:PHE:CZ	2.41	0.55
14:e5:20:GLY:O	14:k1:33:ARG:HD2	2.06	0.55
14:e5:221:GLN:HG2	14:e5:221:GLN:O	2.06	0.55
14:f2:375:ASP:OD1	14:f2:375:ASP:N	2.39	0.55
14:j2:114:ARG:HA	14:j2:114:ARG:HE	1.69	0.55
14:k3:175:LEU:HD13	14:k3:177:PHE:CZ	2.40	0.55
10:b6:341:GLY:N	14:l2:169:GLN:O	2.39	0.55
9:b8:175:TYR:CD1	14:g1:321:ASN:HB3	2.40	0.55
14:d7:121:ARG:CZ	14:d7:129:TYR:CD1	2.89	0.55
14:e1:260:LYS:HE2	14:e1:357:ALA:CB	2.36	0.55
14:e1:260:LYS:NZ	14:e1:360:PRO:HA	2.22	0.55
14:e3:182:GLN:HB2	14:e3:188:TYR:CD1	2.42	0.55
14:f3:14:GLN:NE2	14:i1:258:PRO:CD	2.62	0.55
14:f8:96:VAL:CG1	14:f8:177:PHE:CE1	2.89	0.55
14:g0:187:ASN:ND2	14:g0:188:TYR:CE1	2.75	0.55
14:g1:60:ILE:O	14:g1:60:ILE:HG13	2.06	0.55
14:g7:170:TYR:N	14:g7:170:TYR:CD1	2.73	0.55
14:h1:363:ARG:HA	14:h1:363:ARG:HE	1.71	0.55
14:h2:265:ASN:ND2	14:h2:275:TYR:HE1	2.05	0.55
14:i6:219:PHE:CD1	14:i6:224:HIS:CE1	2.93	0.55
14:j2:363:ARG:HA	14:j2:363:ARG:HE	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j7:60:ILE:HD11	14:j7:173:VAL:CB	2.36	0.55
14:j9:182:GLN:CB	14:j9:188:TYR:CD1	2.88	0.55
14:k6:188:TYR:CE1	14:k6:193:ALA:HB2	2.42	0.55
9:b4:163:VAL:CG2	15:l4:39:TYR:CD2	2.81	0.55
14:d3:308:GLU:OE1	14:d3:336:LYS:NZ	2.39	0.55
14:d9:188:TYR:CD1	14:d9:193:ALA:HA	2.41	0.55
14:f0:30:VAL:O	14:f0:30:VAL:HG13	2.05	0.55
14:g4:260:LYS:HB2	14:g4:421:TYR:CE2	2.42	0.55
14:g8:175:LEU:HB3	14:g8:177:PHE:CZ	2.41	0.55
14:i1:33:ARG:HD2	14:k9:20:GLY:O	2.05	0.55
14:i1:188:TYR:CD2	14:i1:193:ALA:HA	2.42	0.55
14:i5:308:GLU:OE1	14:i5:336:LYS:NZ	2.39	0.55
14:j4:182:GLN:HB2	14:j4:188:TYR:HD2	1.70	0.55
14:j6:329:ARG:NH2	14:j6:333:TYR:CE2	2.74	0.55
5:a5:32:PHE:HE2	14:d6:427:MET:HB2	1.72	0.55
9:b3:155:LEU:CG	14:e2:166:ILE:HD11	2.35	0.55
10:b6:215:HIS:CE1	14:d6:64:GLY:O	2.60	0.55
11:c5:60:LEU:HD21	14:e7:220:ALA:CB	2.35	0.55
12:c7:166:LEU:CG	14:j5:375:ASP:OD2	2.55	0.55
13:c9:129:TYR:HD2	9:l5:149:LEU:CD2	2.18	0.55
14:f0:60:ILE:CD1	14:f0:173:VAL:CB	2.75	0.55
14:g1:308:GLU:OE1	14:g1:336:LYS:NZ	2.40	0.55
14:g6:206:VAL:HB	14:g6:208:TYR:CE1	2.41	0.55
14:i0:219:PHE:HE1	14:i0:226:TYR:OH	1.90	0.55
14:i5:241:PRO:HG2	14:i5:386:CYS:SG	2.46	0.55
2:a1:158:TYR:HE1	3:a2:231:LEU:HD11	1.68	0.55
3:a3:224:ASN:HB2	14:f9:30:VAL:HG12	1.88	0.55
3:a3:246:LEU:CD2	14:i7:32:ARG:CD	2.84	0.55
5:a5:35:PRO:HG2	14:j2:16:VAL:CB	2.30	0.55
10:b6:267:TYR:CE2	14:h6:425:ARG:HG2	2.42	0.55
10:b6:318:TYR:HD2	14:l3:5:LEU:HD23	1.47	0.55
12:c7:58:LEU:O	14:f4:169:GLN:CG	2.55	0.55
14:d1:182:GLN:HB2	14:d1:188:TYR:CD2	2.42	0.55
14:e8:175:LEU:HB3	14:e8:177:PHE:CZ	2.42	0.55
14:f4:226:TYR:CE2	14:i2:28:LYS:CD	2.89	0.55
14:g2:17:TYR:HE1	14:j0:435:TYR:OH	1.89	0.55
14:h7:103:GLN:OE1	14:k4:5:LEU:HD12	2.06	0.55
14:i3:114:ARG:HA	14:i3:114:ARG:HE	1.70	0.55
14:i4:260:LYS:HB2	14:i4:421:TYR:CE1	2.41	0.55
14:i5:121:ARG:NH1	14:i5:129:TYR:CE1	2.75	0.55
14:i6:182:GLN:CB	14:i6:188:TYR:CD1	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j3:187:ASN:ND2	14:j3:188:TYR:CE1	2.74	0.55
14:j4:226:TYR:CD2	14:j4:426:ILE:CD1	2.89	0.55
14:j5:212:ASP:O	14:j5:216:ARG:CG	2.55	0.55
14:j6:329:ARG:NH1	14:j6:333:TYR:CZ	2.73	0.55
14:j7:60:ILE:HG12	14:j7:173:VAL:O	2.07	0.55
14:k5:60:ILE:O	14:k5:60:ILE:HG13	2.07	0.55
2:a1:117:THR:HG22	14:d2:170:TYR:CE2	2.41	0.55
8:a8:133:SER:HA	8:a8:136:PHE:CE2	2.42	0.55
12:c6:130:THR:HG22	14:k2:373:ARG:NH1	2.22	0.55
12:c8:105:GLU:N	14:f2:430:MET:HE1	2.22	0.55
12:c8:149:LEU:HD23	14:k0:169:GLN:OE1	2.05	0.55
14:d1:329:ARG:NH1	14:d1:333:TYR:CZ	2.75	0.55
14:d1:329:ARG:NH2	14:d1:333:TYR:CE1	2.74	0.55
14:d2:99:GLU:OE2	14:d2:102:GLY:C	2.50	0.55
14:e4:27:PHE:CD2	14:k0:66:LEU:HD12	2.42	0.55
14:f4:75:VAL:HG22	14:f4:146:ARG:HE	1.72	0.55
14:g0:260:LYS:HD3	14:g0:421:TYR:CZ	2.42	0.55
14:i2:308:GLU:OE1	14:i2:336:LYS:NZ	2.40	0.55
14:j7:308:GLU:H	14:j7:308:GLU:CD	2.07	0.55
14:l2:312:VAL:HG12	14:l2:408:ALA:HB1	1.89	0.55
3:a2:270:PRO:HB3	14:d1:436:ALA:HB3	1.89	0.55
9:b1:161:ILE:HG13	14:j3:16:VAL:HG21	1.89	0.55
9:b3:192:MET:HE3	14:j8:433:LEU:HB2	1.87	0.55
9:b4:162:GLY:CA	14:j6:216:ARG:HH11	2.18	0.55
11:c4:9:ALA:HB2	14:h9:170:TYR:CD1	2.41	0.55
12:c7:53:LEU:HD21	14:i3:169:GLN:HB3	1.86	0.55
14:d0:27:PHE:CE1	14:i6:209:ILE:CD1	2.74	0.55
14:d0:96:VAL:CG1	14:d0:177:PHE:CE2	2.90	0.55
14:d3:188:TYR:CD2	14:d3:193:ALA:HA	2.42	0.55
14:d4:306:TYR:OH	14:d4:346:VAL:HG11	2.07	0.55
14:d5:75:VAL:HG22	14:d5:146:ARG:HE	1.71	0.55
14:d8:114:ARG:HH21	14:d8:117:ASP:CB	2.15	0.55
14:e4:224:HIS:HB3	14:e4:226:TYR:CE1	2.41	0.55
14:e5:219:PHE:HE1	14:e5:226:TYR:OH	1.90	0.55
14:g5:67:ILE:CG2	14:g5:208:TYR:CE1	2.90	0.55
14:g7:211:LEU:HD22	14:g7:215:GLU:OE1	2.05	0.55
14:h2:11:TYR:CE1	14:h2:19:THR:OG1	2.60	0.55
14:i9:260:LYS:HB2	14:i9:421:TYR:CE1	2.41	0.55
9:a9:161:ILE:HD11	14:i5:103:GLN:NE2	2.22	0.55
10:b6:190:VAL:CG1	14:g3:430:MET:HE3	2.33	0.55
10:b6:203:GLY:HA2	14:d5:9:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:233:LEU:CD2	14:d7:9:VAL:O	2.54	0.55
10:b6:238:VAL:CG2	14:j2:101:GLY:O	2.55	0.55
10:b6:328:THR:N	14:i4:375:ASP:OD1	2.35	0.55
12:c8:137:PHE:CZ	14:k0:436:ALA:HB1	2.42	0.55
12:c8:152:ALA:HB2	14:e5:430:MET:HE1	1.89	0.55
14:d2:99:GLU:OE2	14:i6:63:ASN:ND2	2.40	0.55
14:h3:206:VAL:CG1	14:h3:208:TYR:CZ	2.89	0.55
14:h9:175:LEU:HB3	14:h9:177:PHE:CZ	2.41	0.55
3:a2:246:LEU:CD2	14:i6:364:GLN:NE2	2.70	0.55
9:b4:191:TRP:NE1	14:g8:431:GLY:HA2	2.22	0.55
9:b7:161:ILE:CD1	14:d8:103:GLN:CD	2.79	0.55
11:c3:15:ASP:OD2	14:h2:5:LEU:CD1	2.55	0.55
12:c6:96:SER:O	14:i4:62:ARG:CB	2.56	0.55
12:c6:129:ARG:NH2	14:f0:376:ASN:ND2	2.47	0.55
14:d1:260:LYS:HB2	14:d1:421:TYR:HE1	1.71	0.55
14:d6:121:ARG:CZ	14:d6:129:TYR:CD1	2.89	0.55
14:e1:188:TYR:CD1	14:e1:193:ALA:HA	2.42	0.55
14:e5:182:GLN:HB2	14:e5:188:TYR:CD1	2.41	0.55
14:e5:187:ASN:ND2	14:e5:188:TYR:CE1	2.74	0.55
14:f1:67:ILE:CG2	14:f1:208:TYR:CD1	2.90	0.55
14:h1:243:ALA:HA	14:h1:386:CYS:O	2.07	0.55
14:h8:175:LEU:HD13	14:h8:177:PHE:HZ	1.72	0.55
14:h9:96:VAL:HG13	14:h9:177:PHE:CD2	2.42	0.55
14:h9:243:ALA:HA	14:h9:386:CYS:O	2.07	0.55
3:a3:278:GLU:OE2	14:i7:365:PRO:HG2	2.07	0.54
9:b1:189:GLY:HA2	9:b8:189:GLY:HA2	1.89	0.54
10:b6:221:LEU:HD23	14:g4:9:VAL:HG12	1.88	0.54
10:b6:251:GLN:HA	14:e8:5:LEU:CD1	2.35	0.54
12:c7:156:PHE:CD1	12:c7:156:PHE:C	2.85	0.54
14:d1:182:GLN:CB	14:d1:188:TYR:CD2	2.90	0.54
14:d1:329:ARG:CZ	14:d1:333:TYR:CD1	2.90	0.54
14:d3:229:GLU:OE2	14:d3:363:ARG:NH2	2.40	0.54
14:g4:260:LYS:HB2	14:g4:421:TYR:HE2	1.71	0.54
14:g7:35:THR:CG2	14:g7:215:GLU:OE1	2.54	0.54
14:g9:158:THR:HG21	14:g9:363:ARG:HD2	1.89	0.54
14:h5:175:LEU:HB3	14:h5:177:PHE:CZ	2.43	0.54
14:i4:329:ARG:NH1	14:i4:333:TYR:CZ	2.75	0.54
14:j0:433:LEU:HD23	14:j0:433:LEU:N	2.22	0.54
14:j4:96:VAL:HG21	14:j4:177:PHE:CE2	2.41	0.54
14:k5:60:ILE:CD1	14:k5:67:ILE:HD13	2.36	0.54
14:k7:166:ILE:CD1	14:k7:216:ARG:HG3	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k8:329:ARG:NH1	14:k8:333:TYR:CZ	2.75	0.54
14:k9:329:ARG:NH2	14:k9:333:TYR:CD2	2.76	0.54
12:c6:69:VAL:HA	14:f6:431:GLY:O	2.07	0.54
12:c8:108:ASN:CG	14:f2:428:SER:HB3	2.31	0.54
14:e0:224:HIS:HB3	14:e0:226:TYR:CE2	2.42	0.54
14:e3:401:GLU:OE2	14:h1:146:ARG:HB2	2.07	0.54
14:e6:243:ALA:HA	14:e6:386:CYS:O	2.07	0.54
14:e9:260:LYS:HD2	14:e9:421:TYR:OH	2.08	0.54
14:f7:374:ILE:HG22	14:f7:374:ILE:O	2.06	0.54
14:h2:212:ASP:C	14:h2:216:ARG:HH12	2.15	0.54
14:h2:265:ASN:HB2	14:h2:275:TYR:HD1	1.72	0.54
14:h3:182:GLN:CB	14:h3:188:TYR:CD2	2.89	0.54
14:h4:182:GLN:CB	14:h4:188:TYR:CD2	2.90	0.54
14:i6:60:ILE:HD11	14:i6:165:LEU:CD2	2.35	0.54
14:i6:306:TYR:CE2	14:i6:346:VAL:CG2	2.88	0.54
14:i8:260:LYS:CE	14:i8:357:ALA:HB1	2.37	0.54
14:j3:60:ILE:HD11	14:j3:173:VAL:CB	2.35	0.54
14:j6:182:GLN:HB2	14:j6:188:TYR:CD1	2.42	0.54
10:b6:264:VAL:HA	14:h6:436:ALA:C	2.33	0.54
9:c1:162:GLY:HA3	14:h7:436:ALA:HA	1.88	0.54
12:c6:96:SER:OG	14:i4:64:GLY:O	2.26	0.54
12:c7:166:LEU:CB	14:h3:373:ARG:NH2	2.69	0.54
12:c8:132:ILE:HG23	14:k8:9:VAL:HG11	1.88	0.54
14:e9:60:ILE:HG23	14:e9:208:TYR:HH	1.61	0.54
14:g5:4:GLY:HA2	14:j3:325:ARG:NH1	2.23	0.54
14:h3:60:ILE:CD1	14:h3:173:VAL:HB	2.38	0.54
14:h6:60:ILE:HD11	14:h6:173:VAL:CB	2.38	0.54
14:i3:188:TYR:CE1	14:i3:193:ALA:HB2	2.42	0.54
14:k4:260:LYS:HB2	14:k4:421:TYR:CE1	2.42	0.54
14:k9:96:VAL:HG22	14:k9:177:PHE:HD1	1.72	0.54
6:a6:16:ARG:O	6:a6:19:PRO:HD3	2.07	0.54
9:c0:178:ARG:O	9:c0:201:TYR:CE2	2.60	0.54
14:d5:86:TYR:OH	14:d5:114:ARG:NH2	2.41	0.54
14:e4:329:ARG:NH1	14:h2:41:SER:OG	2.40	0.54
14:f2:260:LYS:HB2	14:f2:421:TYR:CE1	2.41	0.54
14:g0:329:ARG:NH1	14:g0:333:TYR:CE1	2.75	0.54
14:h5:206:VAL:CG1	14:h5:208:TYR:CE1	2.90	0.54
14:h9:175:LEU:HB3	14:h9:177:PHE:CE1	2.43	0.54
14:i2:260:LYS:HE2	14:i2:421:TYR:CZ	2.40	0.54
14:i4:260:LYS:HZ2	14:i4:357:ALA:CB	2.14	0.54
14:i7:329:ARG:NH1	14:i7:333:TYR:HE2	2.03	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j5:211:LEU:CB	14:j5:216:ARG:CG	2.84	0.54
2:a1:165:ARG:O	14:i6:216:ARG:NE	2.40	0.54
4:a4:142:MET:CG	4:a4:154:TRP:HB3	2.37	0.54
10:b6:343:ARG:HD3	14:f7:172:GLU:OE2	2.06	0.54
11:c2:58:GLN:CD	14:e5:217:THR:HG23	2.33	0.54
11:c3:63:THR:OG1	11:c3:64:LYS:N	2.41	0.54
14:d6:41:SER:OG	14:j2:329:ARG:NH1	2.41	0.54
14:f7:17:TYR:CE2	14:i5:435:TYR:OH	2.36	0.54
14:f9:96:VAL:HG23	14:f9:177:PHE:CD2	2.42	0.54
14:g2:188:TYR:CE2	14:g2:193:ALA:HB2	2.43	0.54
14:g5:243:ALA:HA	14:g5:386:CYS:O	2.07	0.54
14:g8:187:ASN:ND2	14:g8:188:TYR:CE1	2.76	0.54
14:i0:329:ARG:NH1	14:k8:41:SER:OG	2.40	0.54
14:i8:5:LEU:CD2	14:i8:8:LEU:HD21	2.37	0.54
9:b5:191:TRP:O	14:i9:434:ALA:CA	2.55	0.54
10:b6:221:LEU:HB3	14:g4:9:VAL:CG1	2.38	0.54
10:b6:337:ILE:CD1	14:l2:210:PHE:CE2	2.90	0.54
12:c7:53:LEU:CD2	14:i3:169:GLN:HA	2.38	0.54
12:c8:95:THR:HG22	14:l0:65:ASP:CG	2.33	0.54
14:d3:17:TYR:HE2	14:g1:435:TYR:OH	1.88	0.54
14:d9:33:ARG:HD2	14:g7:20:GLY:O	2.07	0.54
14:e4:20:GLY:O	14:k0:33:ARG:HD2	2.06	0.54
14:e7:329:ARG:NH2	14:e7:333:TYR:CE2	2.75	0.54
14:f0:90:GLU:OE2	14:f0:129:TYR:CE2	2.60	0.54
14:f8:60:ILE:CD1	14:f8:173:VAL:CG1	2.86	0.54
14:h5:187:ASN:ND2	14:h5:188:TYR:HE1	2.06	0.54
14:i1:187:ASN:ND2	14:i1:188:TYR:CE1	2.75	0.54
14:j1:260:LYS:NZ	14:j1:421:TYR:OH	2.41	0.54
14:j3:60:ILE:HD11	14:j3:165:LEU:CD2	2.36	0.54
14:j7:60:ILE:HD11	14:j7:165:LEU:HD21	1.90	0.54
14:j8:329:ARG:NH1	14:j8:333:TYR:HE2	2.03	0.54
14:k3:187:ASN:ND2	14:k3:188:TYR:CE1	2.76	0.54
5:a5:210:TYR:CE1	13:c9:116:THR:CG2	2.68	0.54
10:b6:324:GLY:O	14:f7:375:ASP:CB	2.55	0.54
11:c2:58:GLN:CD	14:e5:217:THR:CG2	2.81	0.54
14:e3:257:HIS:O	14:e3:370:ASN:HA	2.07	0.54
14:e8:252:ARG:NH1	14:h7:252:ARG:NH1	2.48	0.54
14:f7:260:LYS:CE	14:f7:357:ALA:CB	2.85	0.54
14:g6:66:LEU:HD12	14:j4:27:PHE:CD2	2.42	0.54
14:h8:37:PHE:C	14:k6:8:LEU:CD2	2.77	0.54
14:j6:308:GLU:OE1	14:j6:336:LYS:NZ	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j8:245:THR:OG1	14:j8:246:GLN:N	2.41	0.54
14:k7:96:VAL:HG21	14:k7:177:PHE:CE1	2.42	0.54
14:l0:260:LYS:CD	14:l0:421:TYR:CZ	2.91	0.54
14:l3:188:TYR:CE2	14:l3:193:ALA:HB2	2.43	0.54
10:b6:337:ILE:CD1	14:l2:210:PHE:HD2	2.20	0.54
9:b7:161:ILE:CD1	14:d8:103:GLN:NE2	2.70	0.54
9:b7:203:LYS:CE	14:g6:212:ASP:OD2	2.54	0.54
9:c0:165:THR:CG2	14:k4:435:TYR:CE1	2.90	0.54
9:c1:191:TRP:HZ2	14:e8:431:GLY:HA2	1.73	0.54
12:c8:149:LEU:HD13	14:k0:220:ALA:O	2.08	0.54
14:e0:96:VAL:CG2	14:e0:177:PHE:CD2	2.88	0.54
14:f3:132:MET:CE	14:k9:340:TYR:CD2	2.90	0.54
14:f9:33:ARG:HD2	14:i7:20:GLY:O	2.08	0.54
14:i1:375:ASP:N	14:i1:375:ASP:OD1	2.41	0.54
14:i8:90:GLU:OE1	14:i8:114:ARG:HA	2.07	0.54
14:j6:241:PRO:HG2	14:j6:386:CYS:SG	2.47	0.54
14:k3:99:GLU:CD	14:k3:176:TYR:CE1	2.86	0.54
3:a2:273:ALA:C	14:d1:434:ALA:O	2.50	0.54
10:b6:166:THR:OG1	10:b6:167:VAL:N	2.41	0.54
14:e5:329:ARG:CZ	14:e5:333:TYR:CD1	2.91	0.54
14:e6:329:ARG:NH1	14:h4:41:SER:OG	2.41	0.54
14:f9:212:ASP:C	14:f9:216:ARG:NH1	2.66	0.54
14:g6:175:LEU:HD13	14:g6:177:PHE:HZ	1.72	0.54
14:i8:260:LYS:CD	14:i8:357:ALA:CB	2.85	0.54
14:j0:67:ILE:CG2	14:j0:208:TYR:CD2	2.91	0.54
14:j0:100:ILE:CB	14:j0:105:ILE:HD11	2.36	0.54
11:c2:20:GLU:O	14:h3:9:VAL:HG11	2.08	0.54
12:c8:113:ASN:OD1	14:f3:213:THR:CG2	2.39	0.54
14:d4:145:LYS:NZ	14:j0:308:GLU:OE2	2.40	0.54
14:d8:329:ARG:NH1	14:g6:41:SER:OG	2.41	0.54
14:e4:260:LYS:HB2	14:e4:421:TYR:CE1	2.42	0.54
14:e7:329:ARG:NH1	14:e7:333:TYR:CZ	2.74	0.54
14:f0:206:VAL:HG11	14:f0:208:TYR:CZ	2.43	0.54
14:g8:329:ARG:CZ	14:g8:333:TYR:CD2	2.91	0.54
14:j1:427:MET:HG3	9:l5:190:PRO:HD3	1.90	0.54
14:k7:329:ARG:NH2	14:k7:333:TYR:CE1	2.75	0.54
14:k9:166:ILE:HD12	14:k9:219:PHE:HB2	1.90	0.54
9:c0:170:LEU:HB2	14:g4:375:ASP:CG	2.33	0.53
14:d4:306:TYR:OH	14:d4:346:VAL:HG13	2.07	0.53
14:e7:67:ILE:HG22	14:e7:208:TYR:CE2	2.27	0.53
14:f3:67:ILE:CG2	14:f3:208:TYR:CD2	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g5:216:ARG:HH12	9:l5:178:ARG:HD2	1.74	0.53
14:h6:11:TYR:CE1	14:h6:15:ASP:HB2	2.43	0.53
14:h6:260:LYS:CD	14:h6:357:ALA:CB	2.85	0.53
14:i9:260:LYS:HZ2	14:i9:357:ALA:CB	2.19	0.53
14:j0:329:ARG:CZ	14:j0:333:TYR:CD2	2.92	0.53
5:a5:54:THR:HA	10:b6:208:VAL:HA	1.90	0.53
5:a5:199:PHE:O	14:d5:218:ARG:NH1	2.40	0.53
10:b6:324:GLY:CA	14:f7:375:ASP:N	2.69	0.53
9:c1:193:MET:HG2	14:e8:434:ALA:O	2.08	0.53
12:c8:81:SER:CA	14:f3:375:ASP:HB3	2.36	0.53
13:c9:135:ASP:HB2	14:g2:170:TYR:OH	2.08	0.53
14:d1:209:ILE:CG1	14:f9:27:PHE:CE1	2.91	0.53
14:d1:260:LYS:HB2	14:d1:421:TYR:CE1	2.43	0.53
14:e2:182:GLN:CB	14:e2:188:TYR:CD1	2.91	0.53
14:f8:175:LEU:CB	14:f8:177:PHE:CE2	2.91	0.53
14:g3:329:ARG:CZ	14:g3:333:TYR:CE2	2.92	0.53
14:g7:211:LEU:HD13	14:g7:215:GLU:HG2	1.89	0.53
14:g8:260:LYS:HD2	14:g8:261:TYR:CD2	2.43	0.53
14:h3:243:ALA:HA	14:h3:386:CYS:O	2.09	0.53
14:h5:11:TYR:CE1	14:h5:15:ASP:HB2	2.43	0.53
14:i8:5:LEU:HA	14:i8:8:LEU:HD23	1.89	0.53
14:l3:30:VAL:O	14:l3:30:VAL:HG13	2.08	0.53
3:a3:286:LEU:CD2	14:f9:22:PRO:CB	2.85	0.53
12:c7:137:PHE:CE2	14:k1:436:ALA:CB	2.91	0.53
14:f6:187:ASN:ND2	14:f6:188:TYR:CE1	2.77	0.53
14:f7:114:ARG:NH2	14:f7:117:ASP:CB	2.65	0.53
14:f9:226:TYR:CE2	14:i7:28:LYS:HD3	2.42	0.53
14:g4:105:ILE:CD1	14:g4:433:LEU:CD2	2.82	0.53
14:g5:164:PRO:HG3	14:g5:226:TYR:CE2	2.44	0.53
14:h2:12:GLY:HA3	14:k0:373:ARG:HE	1.73	0.53
14:h6:114:ARG:HA	14:h6:114:ARG:HE	1.71	0.53
14:i3:211:LEU:HD13	14:i3:215:GLU:HG2	1.88	0.53
14:j5:72:VAL:CG1	14:j5:74:PHE:HE2	2.14	0.53
14:j7:260:LYS:HD3	14:j7:421:TYR:CZ	2.44	0.53
8:a8:131:ALA:HB1	8:a8:136:PHE:HE1	1.67	0.53
8:a8:144:TYR:CD1	8:a8:144:TYR:C	2.85	0.53
9:b5:195:SER:O	9:b5:195:SER:OG	2.19	0.53
10:b6:324:GLY:O	14:f7:375:ASP:HB2	2.08	0.53
12:c6:149:LEU:HD22	14:k2:169:GLN:HB2	1.89	0.53
13:c9:150:ARG:CD	14:d1:5:LEU:CD2	2.82	0.53
14:e3:312:VAL:CG1	14:e3:408:ALA:HB1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f2:60:ILE:HD11	14:f2:173:VAL:CB	2.33	0.53
14:f4:35:THR:CG2	14:f4:215:GLU:OE1	2.57	0.53
14:g2:321:ASN:HB3	9:l5:175:TYR:CD1	2.43	0.53
14:h3:60:ILE:HD11	14:h3:173:VAL:CB	2.37	0.53
14:h3:60:ILE:HD12	14:h3:165:LEU:CD2	2.34	0.53
14:h5:425:ARG:HH12	14:h5:434:ALA:HB2	1.72	0.53
14:i0:209:ILE:CB	14:k8:27:PHE:CE1	2.92	0.53
14:i4:182:GLN:HB3	14:i4:188:TYR:CE1	2.43	0.53
14:j1:430:MET:CE	9:l5:191:TRP:HZ3	2.19	0.53
14:j8:243:ALA:HA	14:j8:386:CYS:O	2.09	0.53
14:k9:65:ASP:CB	14:k9:166:ILE:CG2	2.85	0.53
14:l3:242:SER:OG	14:l3:243:ALA:N	2.41	0.53
9:b3:160:TRP:HE1	14:g9:171:HIS:CE1	2.27	0.53
10:b6:267:TYR:HB2	14:h6:433:LEU:O	2.09	0.53
11:c2:26:LEU:HD13	14:i0:373:ARG:CD	2.39	0.53
12:c6:138:ILE:HD11	14:k2:433:LEU:N	2.23	0.53
12:c7:123:LEU:CB	14:i0:373:ARG:NH2	2.71	0.53
12:c8:90:THR:HG21	14:f4:9:VAL:CG2	2.35	0.53
13:c9:135:ASP:OD2	14:g2:170:TYR:OH	2.26	0.53
14:d0:27:PHE:CD1	14:i6:209:ILE:HG21	2.38	0.53
14:d9:17:TYR:CE2	14:g7:227:LEU:CB	2.91	0.53
14:e0:187:ASN:HD21	14:e0:188:TYR:HE1	1.55	0.53
14:e3:187:ASN:ND2	14:e3:188:TYR:HE1	2.07	0.53
14:e4:209:ILE:CG1	14:h2:27:PHE:CE1	2.91	0.53
14:f0:188:TYR:CD1	14:f0:193:ALA:HA	2.43	0.53
14:f2:219:PHE:HE1	14:f2:226:TYR:OH	1.92	0.53
14:f4:211:LEU:HD13	14:f4:215:GLU:HG2	1.89	0.53
14:f7:312:VAL:HG12	14:f7:408:ALA:HB1	1.91	0.53
14:f8:206:VAL:CB	14:f8:208:TYR:CE1	2.89	0.53
14:g0:4:GLY:HA2	14:i8:325:ARG:NH1	2.24	0.53
14:g5:169:GLN:OE1	9:l5:183:ILE:HD13	2.08	0.53
14:h2:243:ALA:HA	14:h2:386:CYS:O	2.08	0.53
14:h6:60:ILE:HG12	14:h6:173:VAL:O	2.09	0.53
14:i2:242:SER:CA	14:i2:386:CYS:SG	2.97	0.53
14:i8:5:LEU:HA	14:i8:8:LEU:CD2	2.39	0.53
14:j3:280:ASN:OD1	14:j3:289:GLY:CA	2.56	0.53
14:j4:175:LEU:HD13	14:j4:177:PHE:CZ	2.43	0.53
14:k1:60:ILE:HG23	14:k1:208:TYR:HH	1.66	0.53
2:a1:150:LEU:HD21	2:a1:162:ASN:OD1	2.09	0.53
3:a2:233:MET:HE1	14:d0:21:ASN:HD21	1.74	0.53
4:a4:156:CYS:O	4:a4:160:SER:OG	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b5:185:LYS:CB	9:b5:198:PRO:CG	2.83	0.53
9:b5:191:TRP:NE1	14:i9:431:GLY:CA	2.65	0.53
11:c3:15:ASP:OD2	14:h2:5:LEU:HD11	2.09	0.53
12:c8:98:TYR:HE2	12:c8:101:ARG:HG3	1.74	0.53
13:c9:13:PHE:CE2	9:l5:148:ASN:O	2.62	0.53
13:c9:19:TYR:CE2	13:c9:20:LYS:O	2.62	0.53
14:e4:90:GLU:OE1	14:e4:114:ARG:HA	2.09	0.53
14:e4:260:LYS:CD	14:e4:357:ALA:CB	2.86	0.53
14:e5:238:THR:O	14:e5:239:ALA:C	2.50	0.53
14:e6:260:LYS:HD3	14:e6:421:TYR:CZ	2.44	0.53
14:h1:329:ARG:NH1	14:j9:41:SER:OG	2.42	0.53
14:h6:225:GLU:HG3	14:h6:425:ARG:NH1	2.23	0.53
14:k6:182:GLN:CB	14:k6:188:TYR:CD2	2.91	0.53
2:a1:151:PHE:O	14:i8:13:ALA:HB1	2.08	0.53
3:a3:246:LEU:HD21	14:i7:32:ARG:NH1	2.23	0.53
5:a5:123:VAL:HG22	5:a5:142:PHE:HB3	1.88	0.53
10:b6:246:GLY:HA3	14:k4:62:ARG:CG	2.39	0.53
11:c3:22:THR:CG2	14:k0:375:ASP:OD1	2.46	0.53
12:c7:62:ALA:HB1	14:i3:430:MET:SD	2.49	0.53
14:e3:330:LYS:HG3	14:h1:146:ARG:CD	2.39	0.53
14:e7:206:VAL:HB	14:e7:208:TYR:CZ	2.42	0.53
14:f2:60:ILE:HG12	14:f2:173:VAL:O	2.08	0.53
14:f4:41:SER:OG	14:l0:329:ARG:NH1	2.42	0.53
14:f6:252:ARG:NH1	14:k7:252:ARG:HB3	2.24	0.53
14:h4:260:LYS:HD3	14:h4:421:TYR:CE1	2.43	0.53
5:a5:176:ASN:HD22	14:g3:427:MET:CA	2.21	0.53
10:b6:187:TYR:HE2	14:g3:170:TYR:CE1	2.27	0.53
10:b6:338:ASN:ND2	14:l2:62:ARG:CB	2.72	0.53
14:d9:223:PRO:HB2	14:d9:427:MET:HE3	1.87	0.53
14:e1:260:LYS:CE	14:e1:357:ALA:HB1	2.39	0.53
14:f2:20:GLY:O	14:f2:21:ASN:C	2.51	0.53
14:g7:105:ILE:HA	14:g7:433:LEU:HD11	1.91	0.53
14:h1:206:VAL:HB	14:h1:208:TYR:CE2	2.44	0.53
14:h7:329:ARG:NH1	14:k5:41:SER:OG	2.41	0.53
14:l1:90:GLU:OE1	14:l1:113:PHE:C	2.51	0.53
9:b4:170:LEU:CD2	14:d9:373:ARG:C	2.82	0.53
12:c6:90:THR:OG1	14:l2:9:VAL:CG2	2.57	0.53
12:c6:120:GLU:O	14:f0:435:TYR:HA	2.09	0.53
12:c7:69:VAL:HG21	14:i3:430:MET:CE	2.39	0.53
12:c7:89:ASN:ND2	14:k8:435:TYR:CD1	2.64	0.53
14:e4:28:LYS:HD3	14:k0:226:TYR:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f0:206:VAL:CG1	14:f0:208:TYR:CZ	2.92	0.53
14:g4:265:ASN:HB2	14:g4:275:TYR:HD1	1.73	0.53
14:g9:60:ILE:O	14:g9:60:ILE:HG13	2.09	0.53
14:h0:67:ILE:HG21	14:h0:208:TYR:CE1	2.44	0.53
14:h1:96:VAL:HG22	14:h1:177:PHE:HD1	1.74	0.53
14:h8:4:GLY:HA2	14:k6:325:ARG:NH1	2.23	0.53
14:i7:175:LEU:HD13	14:i7:177:PHE:CZ	2.43	0.53
14:i8:260:LYS:HB2	14:i8:421:TYR:HE1	1.73	0.53
14:k5:423:VAL:HB	14:k5:434:ALA:CB	2.39	0.53
3:a2:233:MET:HE1	14:d0:21:ASN:CG	2.33	0.53
3:a3:284:TYR:CE2	14:f9:15:ASP:CB	2.92	0.53
9:b0:168:SER:HB3	14:l3:372:SER:O	2.08	0.53
9:b4:170:LEU:HD23	14:d9:373:ARG:CA	2.35	0.53
10:b6:193:THR:CG2	14:g3:425:ARG:NH1	2.66	0.53
9:b7:198:PRO:HG3	14:i9:170:TYR:OH	2.08	0.53
12:c7:137:PHE:CZ	14:k1:436:ALA:CB	2.92	0.53
13:c9:165:PHE:CD1	14:f9:433:LEU:O	2.62	0.53
14:d7:182:GLN:CB	14:d7:188:TYR:CD2	2.92	0.53
14:e0:260:LYS:HD3	14:e0:421:TYR:CZ	2.43	0.53
14:e3:256:ASN:CG	14:e3:257:HIS:CD2	2.87	0.53
14:f0:206:VAL:CB	14:f0:208:TYR:CE1	2.91	0.53
14:f1:175:LEU:HD13	14:f1:177:PHE:HZ	1.73	0.53
14:f3:375:ASP:OD1	14:f3:375:ASP:N	2.38	0.53
14:h6:206:VAL:HG11	14:h6:208:TYR:CZ	2.43	0.53
14:h7:145:LYS:CG	14:h7:147:PHE:CE1	2.92	0.53
14:i6:188:TYR:CD2	14:i6:193:ALA:HA	2.44	0.53
14:k4:329:ARG:NH2	14:k4:333:TYR:CD2	2.77	0.53
14:l3:67:ILE:CG2	14:l3:208:TYR:CE1	2.92	0.53
5:a5:32:PHE:CD2	14:d6:427:MET:CE	2.93	0.52
9:b3:191:TRP:HH2	14:j8:430:MET:HB2	1.74	0.52
11:c5:14:SER:CB	14:h8:103:GLN:CB	2.79	0.52
11:c5:17:HIS:ND1	14:h8:425:ARG:HD2	2.24	0.52
11:c5:54:TYR:HE1	14:h8:425:ARG:NH2	2.06	0.52
14:d6:96:VAL:HG22	14:d6:177:PHE:HD1	1.74	0.52
14:d7:26:PHE:HE2	14:g5:366:SER:O	1.91	0.52
14:e1:34:TYR:HE1	14:j7:365:PRO:CB	2.21	0.52
14:e8:182:GLN:HB2	14:e8:188:TYR:CD1	2.44	0.52
14:e8:321:ASN:CB	14:h7:437:ASN:ND2	2.57	0.52
14:f6:306:TYR:HE1	14:f6:346:VAL:HG22	1.74	0.52
14:f7:33:ARG:HD2	14:i5:20:GLY:O	2.09	0.52
14:f9:114:ARG:NH2	14:f9:117:ASP:CB	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f9:219:PHE:CE1	14:f9:226:TYR:OH	2.55	0.52
14:g5:329:ARG:CZ	14:g5:333:TYR:CE1	2.92	0.52
14:h4:214:GLN:C	14:h4:218:ARG:NH1	2.67	0.52
14:i4:329:ARG:NH2	14:i4:333:TYR:CD1	2.76	0.52
14:j0:99:GLU:OE2	14:j0:102:GLY:C	2.51	0.52
14:j3:96:VAL:HG22	14:j3:177:PHE:HD1	1.74	0.52
14:k0:211:LEU:HD13	14:k0:215:GLU:HG2	1.91	0.52
9:c0:205:LEU:HD21	14:h6:5:LEU:HD22	1.91	0.52
12:c7:53:LEU:HG	12:c7:56:MET:CE	2.39	0.52
12:c8:123:LEU:HD11	14:i1:10:ALA:HA	1.89	0.52
13:c9:165:PHE:CE1	14:f9:432:GLY:C	2.87	0.52
14:e1:182:GLN:CB	14:e1:188:TYR:CD2	2.92	0.52
14:e6:17:TYR:OH	14:h4:421:TYR:O	2.21	0.52
14:f0:306:TYR:CE2	14:f0:346:VAL:HG22	2.43	0.52
14:g6:260:LYS:HE3	14:g6:360:PRO:O	2.04	0.52
14:g9:135:TRP:CE2	14:g9:147:PHE:HZ	2.27	0.52
14:h0:14:GLN:HG2	14:j8:435:TYR:CD2	2.44	0.52
14:h5:34:TYR:O	14:k3:19:THR:HG22	2.09	0.52
14:j0:171:HIS:NE2	14:j0:430:MET:HE3	2.23	0.52
14:j2:114:ARG:NH2	14:j2:117:ASP:CB	2.65	0.52
14:l1:114:ARG:NH2	14:l1:117:ASP:CG	2.67	0.52
2:a1:185:PHE:O	14:i6:425:ARG:NH1	2.42	0.52
7:a7:106:PRO:O	9:b1:160:TRP:HB3	2.09	0.52
14:e0:363:ARG:HA	14:e0:363:ARG:HE	1.74	0.52
14:f4:96:VAL:HG13	14:f4:177:PHE:CD1	2.44	0.52
14:g0:252:ARG:HH12	14:g0:377:ALA:H	1.57	0.52
14:h1:96:VAL:HG13	14:h1:177:PHE:CE1	2.44	0.52
14:h5:96:VAL:HG13	14:h5:177:PHE:CE2	2.44	0.52
14:h6:114:ARG:NH2	14:h6:117:ASP:CB	2.69	0.52
14:i3:308:GLU:OE1	14:i3:336:LYS:NZ	2.42	0.52
14:j4:226:TYR:HE2	14:j4:426:ILE:HD13	1.70	0.52
14:j5:72:VAL:HG12	14:j5:74:PHE:CZ	2.35	0.52
14:l2:96:VAL:CG2	14:l2:177:PHE:CD1	2.91	0.52
8:a8:124:LEU:CD1	11:c3:65:GLY:N	2.71	0.52
10:b6:225:ILE:HD11	14:j2:321:ASN:HB3	1.89	0.52
14:d8:182:GLN:CB	14:d8:188:TYR:CD1	2.91	0.52
14:d9:17:TYR:HE2	14:g7:227:LEU:CB	2.22	0.52
14:e2:67:ILE:CG2	14:e2:208:TYR:CE2	2.92	0.52
14:g2:4:GLY:CA	14:j0:325:ARG:NH1	2.70	0.52
14:g2:241:PRO:HG2	14:g2:386:CYS:SG	2.49	0.52
14:g7:241:PRO:HG2	14:g7:386:CYS:SG	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i5:260:LYS:HD3	14:i5:421:TYR:CE1	2.45	0.52
14:j5:96:VAL:HG22	14:j5:177:PHE:HD2	1.72	0.52
14:j7:105:ILE:HD13	14:j7:433:LEU:HG	1.91	0.52
14:j7:171:HIS:CE1	14:j7:430:MET:HB3	2.44	0.52
14:k8:96:VAL:HG13	14:k8:177:PHE:CE1	2.44	0.52
14:k8:188:TYR:CD2	14:k8:193:ALA:HA	2.44	0.52
3:a3:286:LEU:CD2	14:f9:22:PRO:CA	2.87	0.52
4:a4:144:TRP:CB	4:a4:154:TRP:HE1	2.21	0.52
9:b2:175:TYR:CD1	14:e0:321:ASN:CB	2.92	0.52
9:c0:156:THR:O	14:j2:216:ARG:NH1	2.36	0.52
11:c2:30:ILE:HG12	11:c2:38:LYS:HD3	1.90	0.52
14:d2:258:PRO:HG2	14:d2:421:TYR:O	2.09	0.52
14:d8:114:ARG:NH2	14:d8:117:ASP:CB	2.68	0.52
14:e6:121:ARG:NH2	14:e6:129:TYR:CE1	2.77	0.52
14:f4:260:LYS:HE2	14:f4:421:TYR:CE2	2.43	0.52
14:g0:260:LYS:HB2	14:g0:421:TYR:CE1	2.44	0.52
14:g3:114:ARG:HH21	14:g3:117:ASP:CB	2.19	0.52
14:i9:375:ASP:N	14:i9:375:ASP:OD1	2.43	0.52
9:a9:162:GLY:HA3	14:i5:435:TYR:C	2.35	0.52
9:b3:164:ASN:ND2	14:h0:9:VAL:HG13	2.25	0.52
10:b6:353:ASN:ND2	14:l2:435:TYR:HA	2.25	0.52
11:c5:14:SER:HB3	14:h8:103:GLN:CB	2.25	0.52
14:d3:28:LYS:HD3	14:i9:226:TYR:CE2	2.44	0.52
14:d6:187:ASN:ND2	14:d6:188:TYR:CE1	2.77	0.52
14:d8:27:PHE:CE1	14:j4:209:ILE:CG2	2.86	0.52
14:d8:400:THR:OG1	14:d8:401:GLU:N	2.42	0.52
14:e1:20:GLY:O	14:j7:33:ARG:HD2	2.09	0.52
14:e4:27:PHE:HB3	14:k0:66:LEU:HD13	1.91	0.52
14:e7:206:VAL:CB	14:e7:208:TYR:CE1	2.89	0.52
14:f1:187:ASN:ND2	14:f1:188:TYR:CE2	2.78	0.52
14:f1:226:TYR:CE1	14:f1:426:ILE:HD13	2.44	0.52
14:f1:329:ARG:CZ	14:f1:333:TYR:CD1	2.93	0.52
14:f2:60:ILE:O	14:f2:60:ILE:HG13	2.08	0.52
14:f3:188:TYR:HE2	14:f3:193:ALA:HB2	1.74	0.52
14:f6:252:ARG:HD2	14:k7:252:ARG:NH1	2.24	0.52
14:f7:252:ARG:CZ	14:f7:376:ASN:CB	2.87	0.52
14:g5:37:PHE:CE2	14:j3:27:PHE:HZ	2.27	0.52
14:i6:99:GLU:OE2	14:i6:102:GLY:C	2.53	0.52
14:j0:188:TYR:CE1	14:j0:193:ALA:HB2	2.45	0.52
2:a1:150:LEU:O	3:a2:202:ALA:HB1	2.10	0.52
2:a1:193:THR:HG23	2:a1:195:LYS:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:a5:151:PHE:CB	10:b6:193:THR:O	2.58	0.52
10:b6:187:TYR:HD2	14:g3:170:TYR:CD1	2.28	0.52
10:b6:265:LEU:HD21	10:b6:270:ARG:HD3	1.92	0.52
12:c6:130:THR:CG2	14:k2:373:ARG:NH1	2.73	0.52
12:c7:156:PHE:HA	14:e6:425:ARG:NH2	2.25	0.52
14:d4:26:PHE:HE2	14:j0:34:TYR:CG	2.28	0.52
14:e8:321:ASN:HB3	14:h7:437:ASN:HD22	1.70	0.52
14:e9:260:LYS:CG	14:e9:357:ALA:HB2	2.36	0.52
14:f9:187:ASN:ND2	14:f9:188:TYR:HE1	2.07	0.52
14:g3:114:ARG:NH2	14:g3:117:ASP:CB	2.69	0.52
14:h8:329:ARG:NH1	14:k6:41:SER:OG	2.43	0.52
14:i4:33:ARG:HD2	14:l2:20:GLY:O	2.10	0.52
14:l2:175:LEU:HD13	14:l2:177:PHE:CZ	2.43	0.52
9:b1:155:LEU:N	14:d7:225:GLU:OE1	2.42	0.52
12:c6:149:LEU:HD22	14:k2:169:GLN:CG	2.40	0.52
13:c9:14:PRO:O	9:l5:151:ALA:HB2	2.10	0.52
14:d6:182:GLN:CB	14:d6:188:TYR:CD1	2.93	0.52
14:e1:308:GLU:OE1	14:e1:336:LYS:NZ	2.42	0.52
14:e3:258:PRO:CG	14:e3:421:TYR:HB2	2.37	0.52
14:e6:211:LEU:HD13	14:e6:215:GLU:HG2	1.91	0.52
14:e7:182:GLN:HB2	14:e7:188:TYR:CD1	2.45	0.52
14:f4:188:TYR:CE1	14:f4:193:ALA:HB2	2.45	0.52
14:g4:188:TYR:CD1	14:g4:193:ALA:HA	2.44	0.52
14:h0:20:GLY:O	14:h0:21:ASN:C	2.53	0.52
14:i7:182:GLN:CB	14:i7:188:TYR:CD2	2.93	0.52
14:j1:266:PHE:CE2	14:j1:383:TYR:HE1	2.28	0.52
14:j2:99:GLU:OE2	14:j3:63:ASN:ND2	2.39	0.52
14:k1:175:LEU:CD1	14:k1:177:PHE:HZ	2.19	0.52
4:a4:111:ARG:HG3	4:a4:133:GLN:HB3	1.92	0.52
5:a5:93:PRO:HG3	10:b6:179:ALA:O	2.06	0.52
12:c6:162:THR:HG21	14:k3:14:GLN:HB3	1.92	0.52
14:f8:60:ILE:HD13	14:f8:165:LEU:HD11	1.91	0.52
14:g6:33:ARG:HD2	14:j4:20:GLY:O	2.09	0.52
14:h6:225:GLU:HG2	14:h6:425:ARG:HD3	1.92	0.52
14:j3:182:GLN:CB	14:j3:188:TYR:CD1	2.93	0.52
2:a1:154:LEU:HD11	3:a2:284:TYR:CE1	2.45	0.52
10:b6:193:THR:HG21	14:g3:425:ARG:NH1	2.25	0.52
12:c8:96:SER:O	14:l0:62:ARG:HB3	2.09	0.52
14:e0:224:HIS:CB	14:e0:226:TYR:CE2	2.93	0.52
14:e3:329:ARG:NH1	14:e3:333:TYR:CZ	2.78	0.52
14:f0:121:ARG:NH2	14:f0:129:TYR:CE1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h2:187:ASN:ND2	14:h2:188:TYR:CE1	2.78	0.52
14:j5:313:LEU:HB3	14:j5:352:TYR:OH	2.09	0.52
14:j5:329:ARG:NH2	14:j5:333:TYR:CD2	2.78	0.52
14:j6:187:ASN:ND2	14:j6:188:TYR:CE1	2.78	0.52
14:k5:60:ILE:HD11	14:k5:165:LEU:CD2	2.33	0.52
14:k5:433:LEU:N	14:k5:433:LEU:HD23	2.24	0.52
5:a5:53:TYR:O	10:b6:209:ALA:HB3	2.10	0.51
5:a5:151:PHE:CE2	5:a5:153:LEU:CD1	2.88	0.51
10:b6:246:GLY:HA3	14:k4:62:ARG:HG2	1.92	0.51
12:c7:85:PHE:N	12:c7:85:PHE:HD1	2.09	0.51
12:c8:99:LEU:CD1	14:l0:169:GLN:HB3	2.37	0.51
14:d3:96:VAL:HG13	14:d3:177:PHE:CE1	2.45	0.51
14:e7:187:ASN:ND2	14:e7:188:TYR:CE1	2.79	0.51
14:f6:40:GLU:HB3	14:f6:210:PHE:CE1	2.33	0.51
14:g3:340:TYR:CG	14:j1:132:MET:HE1	2.45	0.51
14:j1:182:GLN:CB	14:j1:188:TYR:CD1	2.94	0.51
14:j8:60:ILE:CD1	14:j8:173:VAL:HB	2.39	0.51
3:a3:246:LEU:HD22	14:i7:32:ARG:CD	2.39	0.51
9:b8:180:ASP:HA	14:g6:216:ARG:NH2	2.25	0.51
9:b8:181:PRO:CG	14:g6:220:ALA:CB	2.88	0.51
12:c8:92:LEU:HB3	14:f3:103:GLN:OE1	2.09	0.51
13:c9:165:PHE:CZ	14:f9:425:ARG:HD3	2.45	0.51
14:d0:146:ARG:HB2	14:i6:401:GLU:OE2	2.09	0.51
14:e4:146:ARG:CD	14:k0:330:LYS:HG3	2.40	0.51
14:e5:27:PHE:CE2	14:k1:66:LEU:HD12	2.43	0.51
14:f4:96:VAL:CG1	14:f4:177:PHE:CE1	2.93	0.51
14:g5:96:VAL:HG22	14:g5:177:PHE:HD2	1.73	0.51
14:h3:260:LYS:HB2	14:h3:421:TYR:HE1	1.75	0.51
14:h9:226:TYR:CD1	14:h9:426:ILE:CD1	2.94	0.51
14:i1:182:GLN:HB2	14:i1:188:TYR:CD1	2.45	0.51
14:j1:188:TYR:CE2	14:j1:193:ALA:HB2	2.46	0.51
14:j3:96:VAL:HG22	14:j3:177:PHE:CD1	2.45	0.51
14:j4:188:TYR:CE1	14:j4:193:ALA:HB2	2.45	0.51
14:k0:182:GLN:CB	14:k0:188:TYR:CD2	2.93	0.51
14:k5:423:VAL:HB	14:k5:434:ALA:HB3	1.91	0.51
14:k6:308:GLU:CD	14:k6:311:ALA:HB3	2.35	0.51
10:b6:322:THR:OG1	14:l3:9:VAL:CG2	2.59	0.51
12:c7:58:LEU:O	14:f4:169:GLN:HG3	2.10	0.51
12:c7:150:ALA:CB	14:k1:169:GLN:OE1	2.58	0.51
13:c9:150:ARG:NH2	14:i7:216:ARG:HD2	2.26	0.51
14:d5:11:TYR:CE1	14:d5:15:ASP:CB	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d9:90:GLU:OE1	14:d9:114:ARG:N	2.43	0.51
14:e6:64:GLY:N	14:e6:208:TYR:CD2	2.77	0.51
14:g8:260:LYS:HD3	14:g8:360:PRO:O	2.10	0.51
14:h3:206:VAL:HB	14:h3:208:TYR:HE1	1.72	0.51
14:h9:175:LEU:CB	14:h9:177:PHE:CE1	2.94	0.51
14:h9:188:TYR:CE2	14:h9:193:ALA:HB2	2.44	0.51
14:i0:30:VAL:O	14:i0:30:VAL:HG13	2.10	0.51
14:i6:67:ILE:CG2	14:i6:208:TYR:CD2	2.94	0.51
14:i9:329:ARG:NH2	14:i9:333:TYR:CE2	2.78	0.51
14:j0:182:GLN:HB2	14:j0:188:TYR:CD2	2.45	0.51
2:a1:154:LEU:HD23	3:a2:206:MET:HB3	1.85	0.51
5:a5:176:ASN:HD21	14:g3:427:MET:HA	1.74	0.51
12:c8:78:CYS:HB3	12:c8:84:GLY:HA2	1.92	0.51
13:c9:123:LEU:HB2	13:c9:124:PRO:HD3	1.92	0.51
14:e5:188:TYR:CD2	14:e5:193:ALA:HA	2.46	0.51
14:e5:211:LEU:HD22	14:e5:215:GLU:OE2	2.11	0.51
14:i5:20:GLY:O	14:i5:21:ASN:C	2.53	0.51
14:j7:224:HIS:HB3	14:j7:226:TYR:CE1	2.46	0.51
14:k1:260:LYS:HZ2	14:k1:357:ALA:CB	1.95	0.51
14:k5:164:PRO:HG3	14:k5:226:TYR:CE2	2.45	0.51
14:l0:314:ASP:OD1	14:l0:330:LYS:NZ	2.36	0.51
3:a3:286:LEU:HD21	14:f9:22:PRO:CA	2.40	0.51
5:a5:153:LEU:N	5:a5:153:LEU:CD1	2.73	0.51
9:b4:158:THR:HG21	14:j6:220:ALA:HB1	1.91	0.51
14:d9:427:MET:HE1	15:l4:47:TRP:CG	2.44	0.51
14:e5:27:PHE:HZ	14:k1:209:ILE:HG23	1.72	0.51
14:e8:242:SER:OG	14:e8:243:ALA:N	2.40	0.51
14:f0:33:ARG:HD2	14:h8:20:GLY:O	2.11	0.51
14:h3:188:TYR:CD1	14:h3:193:ALA:HA	2.44	0.51
14:h9:337:VAL:CG2	14:k7:148:TYR:CG	2.93	0.51
14:j3:188:TYR:CD2	14:j3:193:ALA:HA	2.44	0.51
14:j3:281:ILE:HG13	14:j3:284:ALA:CB	2.35	0.51
14:j4:96:VAL:HG23	14:j4:177:PHE:CE2	2.46	0.51
14:j5:188:TYR:CE2	14:j5:193:ALA:HB2	2.45	0.51
14:k8:242:SER:OG	14:k8:243:ALA:N	2.41	0.51
2:a1:147:ASN:OD1	3:a2:202:ALA:HB2	2.10	0.51
6:a6:22:THR:O	6:a6:23:THR:C	2.54	0.51
12:c8:88:VAL:HA	14:f4:9:VAL:CG2	2.39	0.51
14:d0:330:LYS:HG3	14:f8:146:ARG:HE	1.76	0.51
14:d7:329:ARG:NH1	14:d7:333:TYR:CZ	2.78	0.51
14:e5:329:ARG:NH2	14:e5:333:TYR:CD1	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f6:33:ARG:HD2	14:i4:20:GLY:O	2.11	0.51
14:f9:175:LEU:HB3	14:f9:177:PHE:CE1	2.45	0.51
14:f9:386:CYS:SG	14:f9:409:THR:HG22	2.51	0.51
14:g3:340:TYR:CD1	14:j1:132:MET:HE1	2.46	0.51
14:g9:375:ASP:OD1	14:g9:375:ASP:C	2.52	0.51
14:i2:232:GLN:OE1	14:i2:256:ASN:OD1	2.29	0.51
14:j4:211:LEU:HD13	14:j4:215:GLU:HG2	1.93	0.51
14:k0:96:VAL:HG22	14:k0:177:PHE:HD1	1.74	0.51
2:a1:134:ASP:OD2	3:a2:237:ASN:HB3	2.08	0.51
12:c7:119:PHE:HE2	14:f1:436:ALA:CB	2.11	0.51
14:d0:175:LEU:CD1	14:d0:177:PHE:HZ	2.16	0.51
14:d9:90:GLU:HG2	14:d9:272:TYR:OH	2.09	0.51
14:e1:329:ARG:NH2	14:e1:333:TYR:CD2	2.79	0.51
14:e2:67:ILE:HG21	14:e2:208:TYR:CE2	2.45	0.51
14:e2:260:LYS:CE	14:e2:360:PRO:C	2.79	0.51
14:f1:226:TYR:CD1	14:f1:426:ILE:HD13	2.45	0.51
14:f2:182:GLN:HB2	14:f2:188:TYR:CD1	2.46	0.51
14:f3:211:LEU:HD22	14:f3:215:GLU:OE1	2.08	0.51
14:f4:114:ARG:CG	14:f4:275:TYR:OH	2.59	0.51
14:g7:164:PRO:HG3	14:g7:226:TYR:CE1	2.46	0.51
14:i2:245:THR:OG1	14:i2:246:GLN:N	2.44	0.51
14:i6:121:ARG:CZ	14:i6:129:TYR:CD1	2.94	0.51
14:j5:182:GLN:HB2	14:j5:188:TYR:CD1	2.46	0.51
3:a3:233:MET:HG2	14:i7:26:PHE:CD1	2.46	0.51
5:a5:143:MET:CE	14:g3:170:TYR:CD1	2.93	0.51
5:a5:204:VAL:HG21	5:a5:209:LEU:HD13	1.92	0.51
10:b6:240:GLY:HA2	14:j2:171:HIS:NE2	2.25	0.51
10:b6:270:ARG:HH11	14:e7:5:LEU:HD13	1.66	0.51
10:b6:317:ARG:NE	14:l3:5:LEU:HD13	2.24	0.51
12:c8:142:TRP:NE1	14:k0:431:GLY:O	2.43	0.51
14:d2:241:PRO:HG2	14:d2:386:CYS:SG	2.50	0.51
14:d7:121:ARG:NH2	14:d7:129:TYR:HE1	2.08	0.51
14:e8:96:VAL:HG22	14:e8:177:PHE:HD2	1.75	0.51
14:e9:329:ARG:NH2	14:e9:333:TYR:CE2	2.78	0.51
14:g2:65:ASP:OD1	14:g2:216:ARG:NH1	2.44	0.51
14:g3:37:PHE:CD2	14:j1:27:PHE:HZ	2.29	0.51
14:g3:188:TYR:CE2	14:g3:193:ALA:HB2	2.45	0.51
14:g8:182:GLN:CB	14:g8:188:TYR:CD1	2.93	0.51
14:h6:30:VAL:HG13	14:h6:30:VAL:O	2.11	0.51
14:j7:423:VAL:HB	14:j7:434:ALA:HB3	1.93	0.51
14:j8:187:ASN:ND2	14:j8:188:TYR:CE2	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k1:308:GLU:H	14:k1:308:GLU:CD	2.11	0.51
14:k9:211:LEU:HD13	14:k9:215:GLU:HG2	1.92	0.51
3:a2:222:ILE:CD1	14:d1:428:SER:CB	2.89	0.51
3:a2:252:PHE:CD1	14:d0:364:GLN:HG2	2.46	0.51
3:a3:279:TRP:CB	14:i7:423:VAL:CG2	2.89	0.51
8:a8:109:GLU:OE2	14:f3:5:LEU:CB	2.59	0.51
9:b1:193:MET:O	14:g6:435:TYR:HA	2.11	0.51
12:c7:156:PHE:HA	14:e6:425:ARG:HH22	1.73	0.51
14:d4:26:PHE:HE2	14:j0:34:TYR:HB3	1.71	0.51
14:d8:243:ALA:HA	14:d8:386:CYS:O	2.11	0.51
14:f3:400:THR:OG1	14:i1:144:GLN:OE1	2.29	0.51
14:f7:260:LYS:CD	14:f7:357:ALA:CB	2.88	0.51
14:g5:20:GLY:O	14:g5:21:ASN:C	2.54	0.51
14:g5:226:TYR:HE2	14:g5:426:ILE:HD13	1.76	0.51
14:h1:250:ASN:O	14:h1:252:ARG:NH1	2.44	0.51
14:h7:256:ASN:ND2	14:h7:437:ASN:HD21	2.09	0.51
14:j7:187:ASN:ND2	14:j7:188:TYR:HE1	2.09	0.51
14:k9:182:GLN:HB2	14:k9:188:TYR:CD2	2.46	0.51
4:a4:108:PHE:HD2	4:a4:132:LYS:CA	2.24	0.51
11:c3:13:PHE:HA	14:e4:62:ARG:O	2.11	0.51
11:c3:60:LEU:N	11:c3:60:LEU:HD23	2.26	0.51
12:c6:132:ILE:O	14:k2:436:ALA:HB3	2.10	0.51
12:c8:147:VAL:HG23	14:i0:170:TYR:OH	2.10	0.51
14:d0:401:GLU:OE2	14:f8:146:ARG:HB2	2.10	0.51
14:d5:20:GLY:O	14:d5:21:ASN:C	2.54	0.51
14:d7:329:ARG:NH2	14:d7:333:TYR:CE1	2.78	0.51
14:g4:20:GLY:O	14:g4:21:ASN:C	2.54	0.51
14:g6:209:ILE:CD1	14:j4:27:PHE:HE2	2.21	0.51
14:g6:313:LEU:HB3	14:g6:352:TYR:CZ	2.46	0.51
14:h0:329:ARG:NH1	14:h0:333:TYR:CZ	2.78	0.51
14:h4:135:TRP:CE2	14:h4:147:PHE:HZ	2.28	0.51
14:h7:33:ARG:HD2	14:k5:20:GLY:O	2.11	0.51
14:h8:242:SER:OG	14:h8:243:ALA:N	2.42	0.51
14:i4:187:ASN:ND2	14:i4:188:TYR:HE1	2.09	0.51
14:i8:99:GLU:OE2	14:i8:102:GLY:C	2.54	0.51
14:j2:188:TYR:CE2	14:j2:193:ALA:HB2	2.46	0.51
14:j7:226:TYR:HD1	14:j7:426:ILE:CD1	2.24	0.51
14:j8:101:GLY:HA2	14:j8:171:HIS:CD2	2.45	0.51
5:a5:67:ASP:O	5:a5:71:SER:HB2	2.11	0.50
11:c4:9:ALA:HB2	14:h9:170:TYR:CE1	2.46	0.50
14:d1:211:LEU:HD13	14:d1:215:GLU:HG3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d6:329:ARG:NH1	14:g4:41:SER:OG	2.44	0.50
14:e0:24:ILE:HG21	14:j6:32:ARG:HD3	1.92	0.50
14:e1:346:VAL:HG23	14:e1:346:VAL:O	2.10	0.50
14:f0:243:ALA:CB	14:f0:386:CYS:O	2.60	0.50
14:f1:329:ARG:NH2	14:f1:333:TYR:CE1	2.79	0.50
14:g1:245:THR:OG1	14:g1:246:GLN:N	2.43	0.50
14:h7:145:LYS:CD	14:h7:147:PHE:CE2	2.93	0.50
14:j3:20:GLY:O	14:j3:21:ASN:C	2.54	0.50
14:j7:114:ARG:NH2	14:j7:117:ASP:CG	2.69	0.50
14:l3:243:ALA:HA	14:l3:386:CYS:O	2.12	0.50
2:a1:134:ASP:HB2	14:i6:218:ARG:HH12	1.77	0.50
9:b1:160:TRP:HH2	14:j3:21:ASN:HB2	1.63	0.50
10:b6:337:ILE:HD11	14:l2:210:PHE:CE2	2.45	0.50
12:c8:142:TRP:O	14:i0:216:ARG:CZ	2.60	0.50
14:d1:235:GLY:O	14:f8:174:LYS:NZ	2.44	0.50
14:e4:182:GLN:HB2	14:e4:188:TYR:CD2	2.47	0.50
14:e5:187:ASN:ND2	14:e5:188:TYR:HE1	2.09	0.50
14:f8:67:ILE:HG21	14:f8:208:TYR:HE2	1.72	0.50
14:h6:260:LYS:NZ	14:h6:366:SER:OG	2.44	0.50
14:i0:61:SER:OG	14:i0:63:ASN:OD1	2.29	0.50
14:i7:260:LYS:HD3	14:i7:421:TYR:CZ	2.45	0.50
10:b6:262:ALA:HB1	14:h5:374:ILE:HD13	1.94	0.50
10:b6:359:LEU:HD11	14:l2:373:ARG:C	2.37	0.50
12:c7:123:LEU:CB	14:i0:373:ARG:HH21	2.25	0.50
12:c8:158:ALA:O	14:e5:436:ALA:HA	2.12	0.50
14:d0:211:LEU:HD13	14:d0:215:GLU:HG3	1.92	0.50
14:e9:182:GLN:HB2	14:e9:188:TYR:CD1	2.46	0.50
14:e9:260:LYS:CE	14:e9:360:PRO:CA	2.30	0.50
14:f7:67:ILE:CG2	14:f7:208:TYR:CE2	2.95	0.50
14:g6:182:GLN:HG2	14:g6:188:TYR:CE1	2.45	0.50
14:h9:211:LEU:HD22	14:h9:215:GLU:OE2	2.10	0.50
14:j5:329:ARG:NH1	14:j5:333:TYR:CZ	2.80	0.50
14:k5:226:TYR:CD2	14:k5:426:ILE:HD13	2.46	0.50
14:k8:211:LEU:HD22	14:k8:215:GLU:OE1	2.07	0.50
14:l2:30:VAL:O	14:l2:30:VAL:HG13	2.11	0.50
3:a2:233:MET:CE	14:d0:21:ASN:CG	2.84	0.50
3:a3:234:ARG:CD	14:i7:30:VAL:HG23	2.38	0.50
4:a4:108:PHE:HD2	4:a4:132:LYS:CB	2.22	0.50
4:a4:165:SER:OG	4:a4:166:ASP:N	2.45	0.50
9:c0:165:THR:HG21	14:h6:14:GLN:HG3	1.92	0.50
14:e2:211:LEU:HD22	14:e2:215:GLU:OE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e3:258:PRO:CD	14:e3:421:TYR:O	2.58	0.50
14:h0:67:ILE:CG2	14:h0:208:TYR:CE1	2.95	0.50
14:h1:67:ILE:HG22	14:h1:208:TYR:CD1	2.47	0.50
14:h4:20:GLY:O	14:h4:21:ASN:C	2.55	0.50
14:i4:329:ARG:NH1	14:l2:41:SER:OG	2.45	0.50
14:k9:187:ASN:ND2	14:k9:188:TYR:HE2	2.09	0.50
3:a3:231:LEU:CD2	14:i7:26:PHE:CE1	2.94	0.50
10:b6:251:GLN:CA	14:e8:5:LEU:HD13	2.40	0.50
10:b6:297:ARG:NH2	14:e9:254:ASN:HA	2.27	0.50
14:d9:20:GLY:O	14:d9:21:ASN:C	2.54	0.50
14:d9:312:VAL:HG12	14:d9:408:ALA:HB1	1.93	0.50
14:e1:346:VAL:HG12	14:g9:128:ASN:HB2	1.94	0.50
14:e2:260:LYS:HE2	14:e2:360:PRO:O	2.11	0.50
14:f4:90:GLU:OE1	14:f4:114:ARG:CA	2.60	0.50
14:f8:243:ALA:HA	14:f8:386:CYS:O	2.12	0.50
14:h2:20:GLY:O	14:h2:21:ASN:C	2.55	0.50
14:h5:96:VAL:HG22	14:h5:177:PHE:CD2	2.46	0.50
14:j7:60:ILE:HD11	14:j7:173:VAL:HG11	1.93	0.50
14:j7:224:HIS:CB	14:j7:226:TYR:CE1	2.94	0.50
14:j7:226:TYR:HE1	14:j7:426:ILE:HD13	1.71	0.50
14:l2:20:GLY:O	14:l2:21:ASN:C	2.55	0.50
14:l2:135:TRP:CE2	14:l2:147:PHE:HZ	2.29	0.50
2:a1:166:GLN:NE2	14:d0:5:LEU:HD11	2.26	0.50
3:a2:237:ASN:O	3:a2:238:GLU:CB	2.58	0.50
11:c2:14:SER:HB3	14:i0:103:GLN:HB3	1.94	0.50
12:c8:98:TYR:CZ	14:l0:172:GLU:HG3	2.46	0.50
14:f1:260:LYS:HD2	14:f1:261:TYR:CE2	2.47	0.50
14:f2:260:LYS:HB2	14:f2:421:TYR:HE1	1.76	0.50
14:g4:182:GLN:HB3	14:g4:188:TYR:CD2	2.47	0.50
14:g5:329:ARG:NH2	14:g5:333:TYR:CE1	2.80	0.50
14:h1:187:ASN:ND2	14:h1:188:TYR:CE2	2.80	0.50
14:h3:60:ILE:HG12	14:h3:173:VAL:O	2.12	0.50
14:h3:260:LYS:HB2	14:h3:421:TYR:CE1	2.46	0.50
14:h6:206:VAL:CG1	14:h6:208:TYR:CZ	2.94	0.50
14:j0:211:LEU:HD22	14:j0:215:GLU:CD	2.36	0.50
14:j7:230:GLN:NE2	14:j7:433:LEU:HD13	2.26	0.50
14:k1:20:GLY:O	14:k1:21:ASN:C	2.55	0.50
14:k5:188:TYR:CD2	14:k5:193:ALA:HA	2.47	0.50
14:k7:166:ILE:HD12	14:k7:216:ARG:HG3	1.93	0.50
8:a8:136:PHE:HE2	14:e4:435:TYR:CD1	2.29	0.50
9:b2:161:ILE:O	14:e0:436:ALA:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b4:175:TYR:CE1	14:d9:321:ASN:CG	2.90	0.50
10:b6:323:ARG:O	14:f7:321:ASN:ND2	2.44	0.50
10:b6:376:THR:OG1	10:b6:377:GLY:N	2.44	0.50
9:c0:163:VAL:HG12	14:k4:435:TYR:CD1	2.47	0.50
12:c6:41:GLN:HA	14:f5:170:TYR:CZ	2.47	0.50
12:c7:85:PHE:N	12:c7:85:PHE:CD1	2.79	0.50
13:c9:75:PHE:CD2	9:l5:149:LEU:CD1	2.94	0.50
14:e8:182:GLN:CB	14:e8:188:TYR:CD1	2.95	0.50
14:f6:24:ILE:HG21	14:l2:32:ARG:HD3	1.94	0.50
14:g0:97:GLU:OE2	14:g0:99:GLU:OE2	2.29	0.50
14:h6:114:ARG:HH21	14:h6:117:ASP:CB	2.21	0.50
14:h7:145:LYS:HE2	14:h7:147:PHE:CE2	2.47	0.50
14:h9:226:TYR:CD1	14:h9:426:ILE:HD13	2.46	0.50
14:k1:373:ARG:HH11	14:k1:373:ARG:CA	2.20	0.50
3:a3:279:TRP:NE1	14:f9:15:ASP:OD2	2.45	0.50
5:a5:176:ASN:O	14:g3:223:PRO:HD3	2.12	0.50
8:a8:144:TYR:CD1	8:a8:145:VAL:N	2.77	0.50
9:b4:192:MET:HG2	14:g8:103:GLN:NE2	2.25	0.50
9:b8:205:LEU:HD11	14:d3:5:LEU:HB3	1.94	0.50
11:c5:42:PRO:HB2	14:f0:16:VAL:HG22	1.94	0.50
14:d1:20:GLY:O	14:i7:33:ARG:HD2	2.12	0.50
14:d2:27:PHE:HB3	14:i8:66:LEU:HD13	1.94	0.50
14:f0:329:ARG:NH1	14:h8:41:SER:OG	2.45	0.50
14:g6:103:GLN:OE1	14:j0:103:GLN:HG3	2.11	0.50
14:h7:114:ARG:NH2	14:h7:117:ASP:CG	2.70	0.50
14:j4:400:THR:OG1	14:j4:401:GLU:N	2.45	0.50
14:k1:96:VAL:HG23	14:k1:177:PHE:CD2	2.46	0.50
14:k1:158:THR:CG2	14:k1:363:ARG:CD	2.89	0.50
14:k3:260:LYS:HD2	14:k3:421:TYR:OH	2.12	0.50
14:l0:90:GLU:HG2	14:l0:272:TYR:OH	2.11	0.50
14:l1:90:GLU:HG2	14:l1:272:TYR:OH	2.12	0.50
9:b5:191:TRP:CD1	14:i9:432:GLY:CA	2.95	0.50
12:c7:63:ALA:CB	14:f4:220:ALA:CB	2.89	0.50
12:c7:69:VAL:HG22	14:i3:430:MET:HE3	1.93	0.50
12:c7:96:SER:CB	14:l1:166:ILE:HG13	2.41	0.50
14:d0:245:THR:OG1	14:d0:246:GLN:N	2.43	0.50
14:f9:93:LEU:HD11	14:f9:177:PHE:HD2	1.77	0.50
14:f9:260:LYS:HB2	14:f9:421:TYR:HE1	1.77	0.50
14:g0:238:THR:O	14:g0:239:ALA:C	2.55	0.50
14:g1:40:GLU:HB3	14:g1:210:PHE:HE1	1.76	0.50
14:g4:260:LYS:CD	14:g4:421:TYR:OH	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h2:13:ALA:H	14:k0:373:ARG:HH21	1.60	0.50
14:h2:114:ARG:CG	14:h2:275:TYR:OH	2.60	0.50
14:h6:223:PRO:HB2	14:h6:425:ARG:HH22	1.76	0.50
14:i5:75:VAL:HG22	14:i5:146:ARG:HE	1.77	0.50
14:i9:188:TYR:CE1	14:i9:193:ALA:HB2	2.47	0.50
14:k9:175:LEU:HB3	14:k9:177:PHE:CZ	2.46	0.50
14:k9:329:ARG:NH1	14:k9:333:TYR:CZ	2.80	0.50
7:a7:100:PRO:HG2	7:a7:101:PHE:CD2	2.47	0.49
9:b1:172:ASN:ND2	14:j0:172:GLU:CA	2.70	0.49
14:d4:346:VAL:HG13	14:d4:346:VAL:O	2.12	0.49
14:d5:219:PHE:HE1	14:d5:226:TYR:OH	1.95	0.49
14:d6:20:GLY:O	14:d6:21:ASN:C	2.55	0.49
14:d9:400:THR:OG1	14:d9:401:GLU:N	2.45	0.49
14:e7:329:ARG:NH2	14:e7:333:TYR:CD2	2.81	0.49
14:f3:20:GLY:O	14:f3:21:ASN:C	2.54	0.49
14:f4:96:VAL:HG22	14:f4:177:PHE:CD1	2.47	0.49
14:h0:86:TYR:HE2	14:h0:114:ARG:HE	1.59	0.49
14:h6:400:THR:OG1	14:h6:401:GLU:N	2.45	0.49
14:h7:229:GLU:OE2	14:h7:260:LYS:NZ	2.40	0.49
14:i3:243:ALA:HA	14:i3:386:CYS:O	2.12	0.49
14:j1:430:MET:CG	9:l5:191:TRP:HZ3	2.25	0.49
14:j7:423:VAL:O	14:j7:434:ALA:N	2.43	0.49
14:k1:175:LEU:CB	14:k1:177:PHE:CZ	2.93	0.49
14:k8:187:ASN:ND2	14:k8:188:TYR:CE1	2.80	0.49
2:a1:157:VAL:CB	3:a2:282:ILE:CG2	2.88	0.49
10:b6:276:PRO:O	14:h6:172:GLU:HB3	2.12	0.49
9:c1:160:TRP:CZ2	14:k4:5:LEU:HD11	2.48	0.49
12:c8:131:GLN:OE1	14:f2:373:ARG:CZ	2.60	0.49
14:e8:375:ASP:OD1	14:e8:375:ASP:N	2.45	0.49
14:f4:33:ARG:HD2	14:i2:20:GLY:O	2.12	0.49
14:g1:135:TRP:CE2	14:g1:147:PHE:HZ	2.31	0.49
14:g1:175:LEU:HD13	14:g1:177:PHE:HZ	1.78	0.49
14:g6:209:ILE:HG12	14:j4:27:PHE:CZ	2.41	0.49
14:h3:330:LYS:HG3	14:h3:401:GLU:OE2	2.12	0.49
14:i8:188:TYR:CE2	14:i8:193:ALA:HB2	2.47	0.49
14:k2:20:GLY:O	14:k2:21:ASN:C	2.55	0.49
14:k8:211:LEU:HD13	14:k8:215:GLU:HG2	1.94	0.49
4:a4:121:PRO:O	4:a4:124:THR:OG1	2.27	0.49
14:e1:60:ILE:HG12	14:e1:173:VAL:O	2.12	0.49
14:e8:260:LYS:HD3	14:e8:421:TYR:CE1	2.47	0.49
14:f0:114:ARG:NH2	14:f0:117:ASP:CG	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f3:400:THR:OG1	14:f3:401:GLU:N	2.43	0.49
14:f5:245:THR:OG1	14:f5:246:GLN:N	2.45	0.49
14:f8:400:THR:OG1	14:f8:401:GLU:N	2.45	0.49
14:f9:312:VAL:HG12	14:f9:408:ALA:HB1	1.94	0.49
14:g2:37:PHE:CD1	14:j0:27:PHE:HZ	2.30	0.49
14:h5:206:VAL:CB	14:h5:208:TYR:CE1	2.92	0.49
14:h6:306:TYR:CE2	14:h6:346:VAL:CG2	2.92	0.49
14:i7:329:ARG:NH1	14:i7:333:TYR:CZ	2.78	0.49
14:i8:362:GLY:O	14:i8:363:ARG:NH2	2.45	0.49
14:j0:329:ARG:NH2	14:j0:333:TYR:CD2	2.80	0.49
14:j1:313:LEU:HB3	14:j1:352:TYR:CZ	2.47	0.49
14:j3:281:ILE:HD13	14:j3:310:LEU:HD11	1.93	0.49
1:a0:9:CYS:CB	1:a0:101:CYS:SG	3.01	0.49
10:b6:252:GLN:CG	14:j3:103:GLN:NE2	2.75	0.49
10:b6:337:ILE:HD11	14:l2:210:PHE:CD2	2.46	0.49
9:b7:170:LEU:HA	9:b7:173:ALA:HB2	1.95	0.49
12:c7:132:ILE:HD12	14:f1:321:ASN:ND2	2.28	0.49
12:c8:69:VAL:HG21	14:i2:427:MET:HB3	1.95	0.49
12:c8:142:TRP:CZ2	14:k0:431:GLY:C	2.89	0.49
14:d1:99:GLU:CD	14:f8:436:ALA:HB3	2.37	0.49
14:d5:33:ARG:CD	14:g3:20:GLY:O	2.56	0.49
14:d6:114:ARG:HH21	14:d6:117:ASP:CG	2.20	0.49
14:d7:188:TYR:CE1	14:d7:193:ALA:HB2	2.47	0.49
14:d9:223:PRO:HG3	14:d9:427:MET:CE	2.32	0.49
14:e3:86:TYR:OH	14:e3:114:ARG:NH2	2.45	0.49
14:f1:182:GLN:HB2	14:f1:188:TYR:CD2	2.47	0.49
14:f6:252:ARG:CZ	14:k7:252:ARG:CD	2.88	0.49
14:f7:121:ARG:CZ	14:f7:129:TYR:CD1	2.94	0.49
14:g8:260:LYS:CD	14:g8:360:PRO:O	2.60	0.49
14:h3:206:VAL:CB	14:h3:208:TYR:CE1	2.95	0.49
14:h6:182:GLN:HB2	14:h6:188:TYR:CD1	2.46	0.49
14:h9:329:ARG:NH1	14:k7:41:SER:OG	2.45	0.49
14:j0:243:ALA:HA	14:j0:386:CYS:O	2.11	0.49
14:j7:164:PRO:HG3	14:j7:226:TYR:CE1	2.48	0.49
14:k3:375:ASP:OD1	14:k3:375:ASP:N	2.42	0.49
14:k5:60:ILE:HD12	14:k5:165:LEU:HD21	1.93	0.49
1:a0:8:GLN:OE1	1:a0:8:GLN:HA	2.11	0.49
2:a1:112:PRO:HD2	14:d2:427:MET:HB3	1.95	0.49
7:a7:85:TYR:CZ	7:a7:90:VAL:HG22	2.48	0.49
9:b4:160:TRP:HZ2	14:d9:427:MET:N	2.11	0.49
9:b5:191:TRP:CZ3	9:b7:188:VAL:CG1	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:c1:193:MET:CG	14:e8:434:ALA:O	2.61	0.49
11:c2:10:SER:CB	14:i0:170:TYR:O	2.61	0.49
11:c2:67:THR:CG2	14:k0:217:THR:HB	2.36	0.49
12:c6:162:THR:CB	14:k3:14:GLN:CD	2.86	0.49
12:c7:120:GLU:O	14:f1:435:TYR:HA	2.12	0.49
12:c8:145:ILE:HD11	14:k0:170:TYR:CD2	2.47	0.49
14:d3:243:ALA:HA	14:d3:386:CYS:O	2.13	0.49
14:e9:33:ARG:HD2	14:h7:20:GLY:O	2.12	0.49
14:f6:337:VAL:O	14:f6:338:GLN:C	2.55	0.49
14:g2:93:LEU:HD11	14:g2:177:PHE:HD2	1.77	0.49
14:g9:182:GLN:CB	14:g9:188:TYR:CE2	2.96	0.49
14:h1:188:TYR:CD1	14:h1:193:ALA:HA	2.47	0.49
14:h1:260:LYS:HD3	14:h1:421:TYR:OH	2.12	0.49
14:h2:212:ASP:C	14:h2:216:ARG:NH1	2.71	0.49
14:i8:20:GLY:O	14:i8:21:ASN:C	2.55	0.49
14:j7:260:LYS:HB2	14:j7:421:TYR:HE1	1.77	0.49
14:k0:73:GLU:HG3	14:k0:148:TYR:CD1	2.47	0.49
14:k1:175:LEU:CB	14:k1:177:PHE:CE1	2.96	0.49
14:l1:182:GLN:CB	14:l1:188:TYR:CD2	2.95	0.49
9:l5:139:ALA:O	9:l5:140:ASP:C	2.56	0.49
3:a3:284:TYR:HE2	14:f9:15:ASP:HB2	1.77	0.49
11:c4:22:THR:HG22	14:k2:375:ASP:CG	2.37	0.49
14:d4:41:SER:OG	14:j0:329:ARG:NH1	2.46	0.49
14:e5:329:ARG:NH1	14:e5:333:TYR:CZ	2.81	0.49
14:e6:63:ASN:ND2	14:e6:63:ASN:N	2.60	0.49
14:e6:66:LEU:HB2	14:e6:209:ILE:HB	1.94	0.49
14:e6:187:ASN:ND2	14:e6:188:TYR:CE2	2.80	0.49
14:e6:260:LYS:HB2	14:e6:421:TYR:CE1	2.48	0.49
14:f7:20:GLY:O	14:f7:21:ASN:C	2.56	0.49
14:f7:67:ILE:HG21	14:f7:208:TYR:CE2	2.48	0.49
14:h6:60:ILE:HD12	14:h6:165:LEU:HD21	1.92	0.49
14:i8:243:ALA:HA	14:i8:386:CYS:O	2.12	0.49
14:i9:308:GLU:OE1	14:i9:332:SER:HB3	2.13	0.49
14:j0:225:GLU:HG2	14:j0:425:ARG:HG2	1.94	0.49
14:j1:430:MET:CG	9:l5:191:TRP:CZ3	2.96	0.49
14:j7:20:GLY:O	14:j7:21:ASN:C	2.54	0.49
14:k9:20:GLY:O	14:k9:21:ASN:C	2.56	0.49
5:a5:29:VAL:HG11	5:a5:48:PRO:HG3	1.94	0.49
5:a5:55:PHE:CE1	10:b6:209:ALA:HB2	2.48	0.49
10:b6:299:TYR:OH	14:k5:13:ALA:HB3	2.12	0.49
10:b6:313:ALA:CB	14:k6:170:TYR:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:315:GLN:NE2	14:i5:63:ASN:HD22	2.10	0.49
9:c1:191:TRP:NE1	14:e8:432:GLY:N	2.61	0.49
14:e1:60:ILE:HD11	14:e1:165:LEU:CD2	2.40	0.49
14:e7:211:LEU:HD13	14:e7:215:GLU:HG2	1.95	0.49
14:f5:20:GLY:O	14:f5:21:ASN:C	2.55	0.49
14:f9:175:LEU:CB	14:f9:177:PHE:CE1	2.95	0.49
14:g6:209:ILE:HG21	14:j4:27:PHE:CE1	2.36	0.49
14:g9:312:VAL:HG12	14:g9:408:ALA:HB1	1.94	0.49
14:h6:225:GLU:HG3	14:h6:425:ARG:HH11	1.77	0.49
14:i8:5:LEU:C	14:i8:8:LEU:HG	2.33	0.49
14:i9:20:GLY:O	14:i9:21:ASN:C	2.55	0.49
14:j7:188:TYR:CE2	14:j7:193:ALA:HB2	2.47	0.49
14:j9:187:ASN:ND2	14:j9:188:TYR:HE1	2.11	0.49
14:d5:11:TYR:HE1	14:d5:19:THR:OG1	1.95	0.49
14:d8:260:LYS:HE3	14:d8:360:PRO:O	2.11	0.49
14:d9:312:VAL:CG1	14:d9:408:ALA:HB1	2.43	0.49
14:e4:27:PHE:CE2	14:k0:209:ILE:CB	2.96	0.49
14:e7:245:THR:OG1	14:e7:246:GLN:N	2.45	0.49
14:e9:20:GLY:O	14:e9:21:ASN:C	2.55	0.49
14:f5:329:ARG:CZ	14:f5:333:TYR:CD2	2.96	0.49
14:h5:60:ILE:HD11	14:h5:173:VAL:HB	1.94	0.49
14:i1:329:ARG:NH1	14:k9:41:SER:OG	2.46	0.49
3:a3:257:GLY:HA3	14:d1:25:THR:O	2.13	0.49
9:a9:161:ILE:CD1	14:i5:103:GLN:CD	2.86	0.49
9:b0:151:ALA:HB2	14:f7:429:GLY:HA3	1.95	0.49
9:b1:178:ARG:HE	14:d4:5:LEU:HD21	1.78	0.49
9:b3:161:ILE:CG1	14:h0:5:LEU:HB3	2.43	0.49
9:c1:165:THR:O	9:c1:165:THR:CG2	2.60	0.49
11:c4:42:PRO:CG	14:f1:11:TYR:HE1	2.26	0.49
14:e6:37:PHE:CE1	14:h4:26:PHE:HD2	2.31	0.49
14:e9:400:THR:OG1	14:e9:401:GLU:N	2.46	0.49
14:f0:90:GLU:OE2	14:f0:129:TYR:HE2	1.96	0.49
14:f5:400:THR:OG1	14:f5:401:GLU:N	2.45	0.49
14:h0:32:ARG:HD3	14:j8:24:ILE:HG21	1.95	0.49
14:i4:114:ARG:NH2	14:i4:117:ASP:CG	2.70	0.49
14:i4:260:LYS:CD	14:i4:357:ALA:CB	2.90	0.49
14:j1:88:PRO:CG	14:j1:135:TRP:CZ3	2.95	0.49
14:j1:187:ASN:ND2	14:j1:188:TYR:CE1	2.81	0.49
14:j6:260:LYS:HB2	14:j6:421:TYR:CE2	2.48	0.49
5:a5:185:PRO:HA	14:j1:23:GLN:O	2.13	0.49
9:b0:148:ASN:HB2	14:l2:170:TYR:CD1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:316:ALA:HB2	14:k6:430:MET:HE2	1.94	0.49
12:c6:145:ILE:HG22	12:c6:147:VAL:H	1.78	0.49
14:d7:330:LYS:HE2	14:d7:401:GLU:OE2	2.13	0.49
14:f4:318:ILE:O	14:f4:325:ARG:HB3	2.12	0.49
14:f5:34:TYR:HE1	14:l1:365:PRO:CB	2.26	0.49
14:g6:187:ASN:ND2	14:g6:188:TYR:CE1	2.80	0.49
14:g8:20:GLY:O	14:g8:21:ASN:C	2.55	0.49
14:h1:175:LEU:HD13	14:h1:177:PHE:HZ	1.78	0.49
14:h3:206:VAL:CG1	14:h3:208:TYR:CE1	2.96	0.49
14:h7:20:GLY:O	14:h7:21:ASN:C	2.56	0.49
14:i1:158:THR:HG21	14:i1:363:ARG:HD2	1.89	0.49
14:i8:260:LYS:HB2	14:i8:421:TYR:CE1	2.47	0.49
14:j5:74:PHE:CE1	14:j5:202:MET:SD	3.06	0.49
14:j8:20:GLY:O	14:j8:21:ASN:C	2.56	0.49
14:k3:260:LYS:HE3	14:k3:360:PRO:O	2.08	0.49
14:k9:96:VAL:HG13	14:k9:177:PHE:CE1	2.48	0.49
9:b2:161:ILE:O	14:e0:436:ALA:HB2	2.12	0.48
9:b3:161:ILE:HG12	14:h0:5:LEU:HB3	1.95	0.48
9:b7:169:SER:HB3	9:b7:197:ASP:HB2	1.94	0.48
12:c7:57:GLY:CA	14:f4:62:ARG:HE	2.26	0.48
13:c9:13:PHE:CZ	9:l5:151:ALA:HB3	2.47	0.48
14:e3:182:GLN:CB	14:e3:188:TYR:CD1	2.96	0.48
14:e8:260:LYS:HD3	14:e8:421:TYR:CZ	2.48	0.48
14:f4:187:ASN:ND2	14:f4:188:TYR:CE2	2.81	0.48
14:g0:252:ARG:C	14:g0:252:ARG:CD	2.86	0.48
14:g2:312:VAL:CG1	14:g2:408:ALA:HB1	2.43	0.48
14:h2:213:THR:HA	14:h2:216:ARG:NH2	2.28	0.48
14:h3:60:ILE:O	14:h3:60:ILE:HG13	2.13	0.48
14:h6:306:TYR:OH	14:h6:346:VAL:HG13	2.12	0.48
14:k1:206:VAL:CG1	14:k1:208:TYR:CZ	2.96	0.48
11:c4:23:LEU:HD12	11:c4:26:LEU:HD12	1.95	0.48
14:d0:224:HIS:CB	14:d0:226:TYR:CE1	2.96	0.48
14:e1:20:GLY:O	14:e1:21:ASN:C	2.56	0.48
14:e5:182:GLN:CB	14:e5:188:TYR:CD1	2.96	0.48
14:e7:20:GLY:O	14:k3:33:ARG:HD2	2.13	0.48
14:f3:188:TYR:CD2	14:f3:193:ALA:CA	2.93	0.48
14:f6:63:ASN:O	14:f6:210:PHE:CZ	2.67	0.48
14:g2:211:LEU:HD22	14:g2:215:GLU:OE2	2.10	0.48
14:g3:400:THR:OG1	14:g3:401:GLU:N	2.46	0.48
14:g8:96:VAL:HG13	14:g8:177:PHE:CE1	2.48	0.48
14:h3:161:LEU:O	14:h3:162:ALA:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h6:60:ILE:CD1	14:h6:173:VAL:CG1	2.92	0.48
14:h7:145:LYS:HG2	14:h7:147:PHE:CZ	2.46	0.48
14:h7:256:ASN:HD21	14:h7:437:ASN:HD21	1.60	0.48
14:h9:63:ASN:ND2	14:k1:102:GLY:O	2.46	0.48
14:i0:20:GLY:O	14:i0:21:ASN:C	2.55	0.48
14:j0:101:GLY:CA	14:j0:171:HIS:CE1	2.82	0.48
14:k7:337:VAL:O	14:k7:338:GLN:C	2.56	0.48
14:k9:308:GLU:OE1	14:k9:332:SER:HB3	2.13	0.48
14:l1:161:LEU:O	14:l1:162:ALA:C	2.55	0.48
4:a4:142:MET:HE1	4:a4:171:LYS:CE	2.43	0.48
10:b6:208:VAL:HG11	10:b6:211:THR:OG1	2.13	0.48
11:c3:22:THR:CG2	14:k0:375:ASP:OD2	2.59	0.48
11:c4:12:GLY:N	14:e6:62:ARG:O	2.46	0.48
12:c8:127:ARG:CD	14:k9:375:ASP:OD2	2.57	0.48
13:c9:41:LEU:HD13	13:c9:93:TYR:CE1	2.48	0.48
14:d0:74:PHE:HE1	14:d0:202:MET:SD	2.37	0.48
14:d4:99:GLU:CD	14:g0:436:ALA:HB3	2.38	0.48
14:e6:245:THR:OG1	14:e6:246:GLN:N	2.46	0.48
14:e9:60:ILE:CG2	14:e9:208:TYR:CE2	2.96	0.48
14:e9:260:LYS:HB2	14:e9:421:TYR:CE2	2.45	0.48
14:f6:376:ASN:OD1	14:k7:252:ARG:NH1	2.45	0.48
14:g5:211:LEU:HD22	14:g5:215:GLU:OE2	2.11	0.48
14:g5:241:PRO:HG2	14:g5:386:CYS:SG	2.53	0.48
14:h1:329:ARG:NH2	14:h1:333:TYR:HE2	2.11	0.48
14:h7:256:ASN:ND2	14:h7:437:ASN:OD1	2.46	0.48
14:i3:20:GLY:O	14:i3:21:ASN:C	2.56	0.48
14:i6:245:THR:OG1	14:i6:246:GLN:N	2.46	0.48
14:k1:206:VAL:HG11	14:k1:208:TYR:CZ	2.48	0.48
14:k4:400:THR:OG1	14:k4:401:GLU:N	2.46	0.48
4:a4:108:PHE:HZ	4:a4:141:PRO:HD2	1.79	0.48
10:b6:217:PHE:CE1	14:d6:216:ARG:HG2	2.47	0.48
9:b8:188:VAL:CB	14:g6:430:MET:HE3	2.43	0.48
12:c8:90:THR:CG2	14:f4:9:VAL:HB	2.31	0.48
14:d7:96:VAL:HG13	14:d7:177:PHE:CE1	2.48	0.48
14:e0:90:GLU:OE1	14:e0:114:ARG:HA	2.12	0.48
14:e0:211:LEU:HD22	14:e0:215:GLU:OE2	2.12	0.48
14:e4:27:PHE:HB3	14:k0:66:LEU:CD1	2.42	0.48
14:e4:28:LYS:HD3	14:k0:226:TYR:CE1	2.48	0.48
14:e9:329:ARG:CZ	14:e9:333:TYR:CD2	2.96	0.48
14:g2:312:VAL:HG12	14:g2:408:ALA:HB1	1.95	0.48
14:h5:20:GLY:O	14:h5:21:ASN:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i2:20:GLY:O	14:i2:21:ASN:C	2.56	0.48
14:i9:65:ASP:OD1	14:i9:216:ARG:NH1	2.46	0.48
14:j0:20:GLY:O	14:j0:21:ASN:C	2.55	0.48
14:j4:175:LEU:HB3	14:j4:177:PHE:CZ	2.49	0.48
14:k2:238:THR:O	14:k2:239:ALA:C	2.55	0.48
14:k6:164:PRO:HG3	14:k6:226:TYR:CE1	2.48	0.48
14:l2:40:GLU:CB	14:l2:210:PHE:HE1	2.26	0.48
2:a1:107:SER:O	2:a1:145:ASN:ND2	2.46	0.48
9:a9:165:THR:HG1	14:i5:372:SER:CB	2.26	0.48
9:b4:160:TRP:HZ2	14:d9:427:MET:CA	2.25	0.48
11:c4:10:SER:CA	14:e6:62:ARG:NH2	2.76	0.48
12:c6:126:SER:O	14:f0:373:ARG:HD3	2.13	0.48
12:c6:162:THR:HG21	14:k3:14:GLN:CD	2.39	0.48
12:c8:140:TYR:HE1	14:i0:212:ASP:OD1	1.96	0.48
14:d1:241:PRO:HG2	14:d1:386:CYS:SG	2.54	0.48
14:d6:175:LEU:CD1	14:d6:177:PHE:HZ	2.19	0.48
14:d8:363:ARG:NE	14:d8:363:ARG:CA	2.76	0.48
14:e7:206:VAL:CG1	14:e7:208:TYR:CE1	2.96	0.48
14:g1:60:ILE:HD12	14:g1:165:LEU:CD2	2.37	0.48
14:g6:241:PRO:HG2	14:g6:386:CYS:SG	2.53	0.48
14:h5:30:VAL:HG13	14:h5:30:VAL:O	2.13	0.48
14:i6:20:GLY:O	14:i6:21:ASN:C	2.57	0.48
14:i8:224:HIS:HB3	14:i8:226:TYR:CE1	2.48	0.48
14:i8:245:THR:OG1	14:i8:246:GLN:N	2.46	0.48
14:j7:260:LYS:HE2	14:j7:419:LYS:HG2	1.96	0.48
14:k6:20:GLY:O	14:k6:21:ASN:C	2.56	0.48
2:a1:133:TYR:CD1	14:i6:217:THR:HG21	2.47	0.48
3:a3:218:PRO:HG2	14:d1:214:GLN:CG	2.32	0.48
9:c1:191:TRP:CZ2	14:e8:431:GLY:HA2	2.48	0.48
14:d6:260:LYS:HB2	14:d6:421:TYR:HE1	1.79	0.48
14:d9:241:PRO:HG2	14:d9:386:CYS:SG	2.53	0.48
14:e3:312:VAL:HG12	14:e3:408:ALA:HB1	1.95	0.48
14:e7:188:TYR:HE2	14:e7:193:ALA:HB2	1.79	0.48
14:f3:188:TYR:CE2	14:f3:193:ALA:CB	2.97	0.48
14:g4:182:GLN:HB3	14:g4:188:TYR:CE2	2.48	0.48
14:g5:260:LYS:HB2	14:g5:421:TYR:CE1	2.47	0.48
14:i1:158:THR:HB	14:i1:363:ARG:CZ	2.38	0.48
14:i7:329:ARG:CZ	14:i7:333:TYR:HE2	2.22	0.48
14:j3:206:VAL:HB	14:j3:208:TYR:CE1	2.49	0.48
14:k0:175:LEU:HD13	14:k0:177:PHE:HZ	1.78	0.48
14:k3:20:GLY:O	14:k3:21:ASN:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k5:206:VAL:CG1	14:k5:208:TYR:CZ	2.97	0.48
14:k9:65:ASP:OD1	14:k9:166:ILE:HG21	2.14	0.48
14:k9:182:GLN:CB	14:k9:188:TYR:CD2	2.96	0.48
3:a3:279:TRP:HD1	14:f9:15:ASP:OD2	1.91	0.48
9:b0:147:LYS:CB	14:l2:428:SER:O	2.62	0.48
10:b6:217:PHE:HD1	14:d6:166:ILE:HD11	1.78	0.48
10:b6:247:LYS:HB3	14:j3:171:HIS:HD2	1.78	0.48
10:b6:327:ARG:O	14:i4:373:ARG:NH1	2.46	0.48
11:c2:14:SER:HB3	14:i0:103:GLN:CB	2.44	0.48
12:c6:136:SER:HB2	14:k2:434:ALA:O	2.12	0.48
12:c6:158:ALA:O	14:e7:436:ALA:HA	2.13	0.48
12:c8:75:THR:CG2	14:i2:435:TYR:CD1	2.97	0.48
12:c8:121:SER:OG	14:f2:436:ALA:HB3	2.14	0.48
14:d2:309:GLN:OE1	14:g0:145:LYS:NZ	2.47	0.48
14:e2:211:LEU:HD13	14:e2:215:GLU:HG2	1.95	0.48
14:e4:330:LYS:HE2	14:e4:401:GLU:OE1	2.14	0.48
14:e7:33:ARG:HD2	14:h5:20:GLY:O	2.14	0.48
14:g1:60:ILE:HG12	14:g1:173:VAL:O	2.13	0.48
14:g9:318:ILE:O	14:g9:325:ARG:HB3	2.14	0.48
14:h1:400:THR:OG1	14:h1:401:GLU:N	2.47	0.48
14:h5:260:LYS:HD3	14:h5:421:TYR:CZ	2.49	0.48
14:h6:96:VAL:HG22	14:h6:177:PHE:HD2	1.78	0.48
14:j0:182:GLN:CB	14:j0:188:TYR:CD2	2.97	0.48
14:j0:225:GLU:HG2	14:j0:425:ARG:CG	2.44	0.48
14:k3:386:CYS:SG	14:k3:408:ALA:HB3	2.54	0.48
14:k7:219:PHE:HE1	14:k7:226:TYR:OH	1.96	0.48
3:a3:224:ASN:HB2	14:f9:30:VAL:CG1	2.43	0.48
9:b4:191:TRP:CD1	14:g8:432:GLY:CA	2.97	0.48
10:b6:342:GLU:CB	14:l2:171:HIS:C	2.87	0.48
12:c6:68:ASP:CB	14:f6:427:MET:SD	3.01	0.48
12:c8:90:THR:HG22	14:f4:9:VAL:CG2	2.40	0.48
14:d4:435:TYR:O	14:d4:436:ALA:C	2.55	0.48
14:g4:211:LEU:HD22	14:g4:215:GLU:CD	2.39	0.48
14:g7:187:ASN:ND2	14:g7:188:TYR:CE1	2.82	0.48
14:g8:103:GLN:OE1	14:g8:433:LEU:N	2.43	0.48
14:i4:425:ARG:HH12	14:i4:434:ALA:HB2	1.78	0.48
14:j1:329:ARG:NH1	14:j1:333:TYR:CZ	2.82	0.48
14:j9:260:LYS:HD2	14:j9:421:TYR:OH	2.14	0.48
14:k2:219:PHE:HE1	14:k2:226:TYR:OH	1.96	0.48
14:k4:114:ARG:NH1	14:k4:118:ALA:HB2	2.28	0.48
14:k9:256:ASN:OD1	14:k9:257:HIS:CD2	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b8:166:GLN:O	9:b8:169:SER:OG	2.31	0.48
11:c2:58:GLN:HG3	14:e5:217:THR:HG21	1.95	0.48
14:d0:243:ALA:HB2	14:d0:386:CYS:O	2.13	0.48
14:d2:182:GLN:CB	14:d2:188:TYR:CD2	2.97	0.48
14:d8:20:GLY:O	14:d8:21:ASN:C	2.56	0.48
14:d8:114:ARG:NE	14:d8:114:ARG:CA	2.77	0.48
14:e8:20:GLY:O	14:e8:21:ASN:C	2.55	0.48
14:f3:161:LEU:O	14:f3:162:ALA:C	2.57	0.48
14:g0:337:VAL:O	14:g0:338:GLN:C	2.57	0.48
14:g9:158:THR:CB	14:g9:363:ARG:NE	2.77	0.48
14:h3:329:ARG:NH1	14:k1:41:SER:OG	2.46	0.48
14:h6:206:VAL:HB	14:h6:208:TYR:HE1	1.73	0.48
14:i1:175:LEU:HD13	14:i1:177:PHE:CZ	2.48	0.48
14:k8:166:ILE:CD1	14:k8:216:ARG:HG3	2.43	0.48
5:a5:62:THR:CG2	14:g3:425:ARG:NE	2.74	0.48
5:a5:151:PHE:HB2	10:b6:191:LEU:O	2.14	0.48
10:b6:338:ASN:HD21	14:l2:62:ARG:HD2	1.77	0.48
9:c0:165:THR:HG21	14:h6:14:GLN:CG	2.43	0.48
11:c4:20:GLU:O	14:h4:9:VAL:HG21	2.14	0.48
12:c8:99:LEU:HD12	14:l0:169:GLN:HG2	1.95	0.48
14:e1:187:ASN:ND2	14:e1:188:TYR:CE2	2.81	0.48
14:e6:28:LYS:HD2	14:k2:226:TYR:CE1	2.49	0.48
14:f8:96:VAL:CG2	14:f8:177:PHE:CE1	2.97	0.48
14:f9:96:VAL:CG2	14:f9:177:PHE:CD2	2.97	0.48
14:g0:187:ASN:ND2	14:g0:188:TYR:HE1	2.12	0.48
14:g1:187:ASN:ND2	14:g1:188:TYR:HE2	2.10	0.48
14:h0:238:THR:O	14:h0:239:ALA:C	2.57	0.48
14:i5:86:TYR:OH	14:i5:114:ARG:NH2	2.47	0.48
14:i6:329:ARG:NH2	14:i6:333:TYR:CD1	2.82	0.48
14:k4:375:ASP:OD1	14:k4:375:ASP:O	2.31	0.48
14:k5:226:TYR:CD2	14:k5:426:ILE:CD1	2.97	0.48
14:k9:65:ASP:HB3	14:k9:166:ILE:HG21	1.94	0.48
14:l0:245:THR:OG1	14:l0:246:GLN:N	2.46	0.48
5:a5:180:PRO:HD2	14:g3:222:LEU:HD21	1.96	0.47
9:b3:175:TYR:CD1	14:g9:321:ASN:HB3	2.49	0.47
9:b3:192:MET:CE	14:j8:103:GLN:HE22	2.04	0.47
10:b6:221:LEU:HB3	14:g4:9:VAL:HG11	1.96	0.47
14:d4:212:ASP:C	14:d4:216:ARG:HH12	2.22	0.47
14:d5:40:GLU:CB	14:d5:210:PHE:HE1	2.27	0.47
14:e6:260:LYS:HB2	14:e6:421:TYR:HE1	1.80	0.47
14:e8:187:ASN:ND2	14:e8:188:TYR:CE1	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f4:219:PHE:HA	14:f4:224:HIS:NE2	2.29	0.47
14:f8:306:TYR:HH	14:f8:346:VAL:HG13	1.79	0.47
14:g3:400:THR:OG1	14:j1:144:GLN:OE1	2.27	0.47
14:g4:423:VAL:HB	14:g4:434:ALA:HB3	1.95	0.47
14:g5:37:PHE:CD2	14:j3:27:PHE:HZ	2.32	0.47
14:h6:290:THR:OG1	14:h6:291:ALA:N	2.46	0.47
14:h8:175:LEU:HB3	14:h8:177:PHE:CZ	2.48	0.47
14:i4:30:VAL:HG13	14:i4:30:VAL:O	2.13	0.47
14:i5:86:TYR:HE2	14:i5:114:ARG:HE	1.62	0.47
14:j0:290:THR:OG1	14:j0:291:ALA:N	2.47	0.47
14:j1:266:PHE:CE2	14:j1:383:TYR:CE1	3.01	0.47
14:j5:229:GLU:OE2	14:j5:260:LYS:NZ	2.46	0.47
14:j6:20:GLY:O	14:j6:21:ASN:C	2.56	0.47
14:k0:71:VAL:HG12	14:k0:73:GLU:OE2	2.14	0.47
14:k5:105:ILE:HG23	14:k5:433:LEU:HD21	1.96	0.47
14:k5:171:HIS:CE1	14:k5:430:MET:HB3	2.49	0.47
5:a5:35:PRO:HG3	14:j2:16:VAL:CG1	2.38	0.47
8:a8:134:ARG:O	8:a8:138:ARG:HD3	2.14	0.47
10:b6:286:TYR:CE1	14:k3:103:GLN:OE1	2.66	0.47
12:c7:85:PHE:CZ	14:i3:375:ASP:HA	2.47	0.47
14:d0:175:LEU:HB3	14:d0:177:PHE:CE1	2.49	0.47
14:d2:27:PHE:HB3	14:i8:66:LEU:CD1	2.44	0.47
14:d8:27:PHE:CD1	14:j4:66:LEU:HD13	2.46	0.47
14:d8:146:ARG:HB2	14:j4:401:GLU:OE2	2.14	0.47
14:e7:211:LEU:HD22	14:e7:215:GLU:OE2	2.13	0.47
14:f6:24:ILE:CG2	14:l2:32:ARG:HD3	2.43	0.47
14:f7:337:VAL:O	14:f7:338:GLN:C	2.57	0.47
14:g0:86:TYR:OH	14:g0:114:ARG:NH2	2.48	0.47
14:g4:346:VAL:HG23	14:j2:124:ASP:HB3	1.96	0.47
14:g6:20:GLY:O	14:g6:21:ASN:C	2.55	0.47
14:g6:313:LEU:HB3	14:g6:352:TYR:OH	2.14	0.47
14:g7:219:PHE:HE1	14:g7:226:TYR:OH	1.97	0.47
14:g9:60:ILE:CG1	14:g9:173:VAL:HB	2.43	0.47
14:h8:20:GLY:O	14:h8:21:ASN:C	2.56	0.47
14:i1:260:LYS:CD	14:i1:421:TYR:CZ	2.82	0.47
14:j7:105:ILE:HD12	14:j7:433:LEU:CD2	2.44	0.47
14:k5:386:CYS:SG	14:k5:408:ALA:HB3	2.54	0.47
14:k7:363:ARG:NE	14:k7:363:ARG:CA	2.76	0.47
14:k9:211:LEU:HD22	14:k9:215:GLU:OE2	2.12	0.47
5:a5:55:PHE:CZ	10:b6:209:ALA:HA	2.49	0.47
5:a5:204:VAL:CG1	13:c9:72:TYR:CD1	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:262:ALA:HB2	14:h5:373:ARG:O	2.14	0.47
10:b6:338:ASN:HD22	14:l2:62:ARG:HA	1.80	0.47
12:c8:75:THR:HG21	14:f4:14:GLN:OE1	2.14	0.47
14:d3:260:LYS:CD	14:d3:357:ALA:CB	2.93	0.47
14:e4:27:PHE:CE1	14:k0:209:ILE:HG21	2.37	0.47
14:e8:96:VAL:HG22	14:e8:177:PHE:CD2	2.48	0.47
14:f9:175:LEU:CD1	14:f9:177:PHE:HZ	2.18	0.47
14:g3:318:ILE:O	14:g3:325:ARG:HB3	2.14	0.47
14:g5:358:LEU:HB2	14:g5:366:SER:HB2	1.97	0.47
14:g8:329:ARG:NH2	14:g8:333:TYR:CE2	2.82	0.47
14:h6:206:VAL:CG1	14:h6:208:TYR:CE1	2.97	0.47
14:h7:114:ARG:NE	14:h7:114:ARG:CA	2.77	0.47
14:h9:20:GLY:O	14:h9:21:ASN:C	2.55	0.47
14:i0:187:ASN:ND2	14:i0:188:TYR:CE2	2.83	0.47
14:j7:337:VAL:O	14:j7:338:GLN:C	2.57	0.47
14:k4:243:ALA:HA	14:k4:386:CYS:O	2.14	0.47
14:k7:187:ASN:ND2	14:k7:188:TYR:HE1	2.11	0.47
14:k7:329:ARG:CZ	14:k7:333:TYR:CD1	2.97	0.47
14:k9:256:ASN:OD1	14:k9:257:HIS:HD2	1.97	0.47
2:a1:150:LEU:CG	14:d2:425:ARG:NH1	2.77	0.47
3:a2:198:ASP:OD1	3:a2:198:ASP:N	2.47	0.47
8:a8:109:GLU:HG3	8:a8:110:PHE:N	2.29	0.47
9:b1:155:LEU:HB3	14:j3:17:TYR:HB2	1.97	0.47
9:b3:155:LEU:HD12	14:e2:216:ARG:HG2	1.95	0.47
12:c6:137:PHE:CE1	14:k6:9:VAL:CG2	2.78	0.47
14:d7:222:LEU:O	14:d7:224:HIS:CD2	2.67	0.47
14:e2:33:ARG:HD2	14:h0:20:GLY:O	2.14	0.47
14:e4:40:GLU:OE1	14:h2:3:GLY:HA3	2.15	0.47
14:e4:182:GLN:CB	14:e4:188:TYR:CD2	2.97	0.47
14:e7:337:VAL:O	14:e7:338:GLN:C	2.57	0.47
14:e8:175:LEU:HD13	14:e8:177:PHE:CZ	2.41	0.47
14:f0:206:VAL:CG1	14:f0:208:TYR:CE1	2.97	0.47
14:f3:290:THR:OG1	14:f3:291:ALA:N	2.48	0.47
14:f8:60:ILE:HD11	14:f8:173:VAL:CG1	2.44	0.47
14:h4:215:GLU:OE1	14:h4:218:ARG:CZ	2.62	0.47
14:h7:211:LEU:HD22	14:h7:215:GLU:OE2	2.14	0.47
14:i2:187:ASN:ND2	14:i2:188:TYR:HE1	2.11	0.47
14:i6:337:VAL:O	14:i6:338:GLN:C	2.56	0.47
14:j0:105:ILE:HG23	14:j0:433:LEU:HD22	1.96	0.47
14:j1:372:SER:C	9:l5:169:SER:OG	2.58	0.47
14:j2:20:GLY:O	14:j2:21:ASN:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:l0:188:TYR:CE2	14:l0:193:ALA:HB2	2.49	0.47
14:l3:20:GLY:O	14:l3:21:ASN:C	2.57	0.47
5:a5:188:VAL:HG11	14:j1:24:ILE:HD12	1.95	0.47
10:b6:233:LEU:CD2	14:d7:10:ALA:CA	2.92	0.47
9:b7:174:ASN:HA	14:i9:62:ARG:HB2	1.96	0.47
12:c6:88:VAL:HG22	14:l2:9:VAL:HG13	1.96	0.47
12:c6:112:SER:CA	14:f0:430:MET:HE1	2.44	0.47
14:d0:96:VAL:HG13	14:d0:177:PHE:CE2	2.49	0.47
14:d5:175:LEU:HB3	14:d5:177:PHE:CZ	2.49	0.47
14:f9:114:ARG:NE	14:f9:114:ARG:CA	2.77	0.47
14:f9:188:TYR:CE2	14:f9:193:ALA:HB2	2.49	0.47
14:g2:211:LEU:HD13	14:g2:215:GLU:HG2	1.96	0.47
14:h3:96:VAL:HG22	14:h3:177:PHE:HD1	1.79	0.47
14:h4:135:TRP:CD2	14:h4:147:PHE:HZ	2.31	0.47
14:h5:33:ARG:CD	14:k3:20:GLY:O	2.56	0.47
14:i5:121:ARG:CZ	14:i5:129:TYR:CD1	2.97	0.47
14:l1:337:VAL:O	14:l1:338:GLN:C	2.57	0.47
1:a0:12:LEU:CD2	1:a0:66:TYR:HE2	2.21	0.47
3:a2:284:TYR:OH	14:d1:170:TYR:HE1	1.87	0.47
9:a9:161:ILE:CD1	14:i5:103:GLN:OE1	2.59	0.47
9:b0:192:MET:HG2	14:l3:103:GLN:HE22	1.80	0.47
9:b7:166:GLN:HB3	14:g7:375:ASP:OD2	2.14	0.47
11:c2:7:ASP:CB	14:k0:169:GLN:HE21	2.27	0.47
14:d0:96:VAL:CG2	14:d0:177:PHE:HD2	2.15	0.47
14:d3:20:GLY:O	14:d3:21:ASN:C	2.56	0.47
14:d5:290:THR:OG1	14:d5:291:ALA:N	2.47	0.47
14:d6:121:ARG:NH2	14:d6:129:TYR:HE1	2.12	0.47
14:d8:146:ARG:NE	14:j4:330:LYS:HG3	2.29	0.47
14:e3:90:GLU:OE2	14:e3:129:TYR:HE2	1.93	0.47
14:e4:224:HIS:CB	14:e4:226:TYR:CE1	2.97	0.47
14:e9:213:THR:HA	14:e9:216:ARG:NH1	2.29	0.47
14:g9:135:TRP:CD2	14:g9:147:PHE:HZ	2.32	0.47
14:h2:145:LYS:HB3	14:h2:147:PHE:CE2	2.49	0.47
14:h5:188:TYR:CD2	14:h5:193:ALA:HA	2.50	0.47
14:i1:11:TYR:HE2	14:i1:19:THR:OG1	1.97	0.47
14:k1:175:LEU:HB2	14:k1:177:PHE:CE1	2.49	0.47
14:k1:266:PHE:CZ	14:k1:381:LEU:HD13	2.41	0.47
14:k2:188:TYR:CD1	14:k2:193:ALA:CA	2.97	0.47
5:a5:199:PHE:HE1	14:d5:35:THR:HG21	1.79	0.47
5:a5:205:GLN:CB	9:l5:136:PRO:HD3	2.44	0.47
8:a8:36:PRO:O	8:a8:37:ALA:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b1:170:LEU:H	14:g6:375:ASP:HB3	1.79	0.47
10:b6:215:HIS:HB2	14:d6:62:ARG:HG3	1.96	0.47
10:b6:215:HIS:CB	14:d6:62:ARG:HD2	2.44	0.47
10:b6:305:GLY:HA3	14:e9:101:GLY:O	2.14	0.47
10:b6:306:ILE:HD12	14:k6:166:ILE:HG13	1.97	0.47
9:c1:162:GLY:HA3	14:h7:436:ALA:CA	2.44	0.47
11:c5:10:SER:HB3	14:h8:170:TYR:HB3	1.96	0.47
12:c6:68:ASP:CB	14:f6:427:MET:HE3	2.45	0.47
12:c6:95:THR:HG21	14:i4:210:PHE:CE2	2.49	0.47
12:c7:57:GLY:HA3	14:f4:62:ARG:HE	1.79	0.47
12:c8:90:THR:HG23	14:f4:9:VAL:CG2	2.28	0.47
12:c8:115:LEU:HD23	14:f2:431:GLY:C	2.40	0.47
14:d5:187:ASN:ND2	14:d5:188:TYR:CE2	2.83	0.47
14:d8:27:PHE:HE1	14:j4:209:ILE:CD1	2.26	0.47
14:d8:146:ARG:HE	14:j4:330:LYS:HG3	1.79	0.47
14:e6:37:PHE:CE2	14:h4:27:PHE:HZ	2.33	0.47
14:e8:96:VAL:HG13	14:e8:177:PHE:CE2	2.49	0.47
14:e8:337:VAL:O	14:e8:338:GLN:C	2.58	0.47
14:e9:435:TYR:CD2	14:k5:14:GLN:HG2	2.49	0.47
14:f0:114:ARG:NE	14:f0:114:ARG:CA	2.77	0.47
14:f1:329:ARG:NH1	14:f1:333:TYR:CZ	2.83	0.47
14:f4:35:THR:HG21	14:f4:215:GLU:HB2	1.95	0.47
14:f6:20:GLY:O	14:f6:21:ASN:C	2.56	0.47
14:f9:96:VAL:HG21	14:f9:177:PHE:HE2	1.74	0.47
14:g1:60:ILE:CD1	14:g1:173:VAL:HB	2.45	0.47
14:g1:337:VAL:O	14:g1:338:GLN:C	2.57	0.47
14:g4:67:ILE:HG21	14:g4:208:TYR:CE2	2.50	0.47
14:h1:329:ARG:CZ	14:h1:333:TYR:CD2	2.96	0.47
14:h5:238:THR:O	14:h5:239:ALA:C	2.57	0.47
14:h6:96:VAL:HG22	14:h6:177:PHE:CD2	2.49	0.47
14:i7:20:GLY:O	14:i7:21:ASN:C	2.57	0.47
14:j3:60:ILE:HD12	14:j3:67:ILE:HD13	1.95	0.47
14:j4:20:GLY:O	14:j4:21:ASN:C	2.57	0.47
14:j5:211:LEU:C	14:j5:216:ARG:HD2	2.25	0.47
14:k1:96:VAL:CG2	14:k1:177:PHE:CD2	2.98	0.47
14:k2:314:ASP:OD1	14:k2:330:LYS:NZ	2.38	0.47
14:k5:206:VAL:HG11	14:k5:208:TYR:CZ	2.50	0.47
14:k6:226:TYR:CE1	14:k6:426:ILE:HD13	2.50	0.47
14:l0:20:GLY:O	14:l0:21:ASN:C	2.56	0.47
5:a5:143:MET:CE	14:g3:170:TYR:CE1	2.97	0.47
9:c0:163:VAL:CG1	14:k4:435:TYR:CD1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d1:306:TYR:HD1	14:f9:131:ARG:HH12	1.59	0.47
14:e0:161:LEU:O	14:e0:162:ALA:C	2.56	0.47
14:e6:61:SER:HB3	14:e6:63:ASN:ND2	2.19	0.47
14:e9:337:VAL:O	14:e9:338:GLN:C	2.57	0.47
14:f0:20:GLY:O	14:f0:21:ASN:C	2.58	0.47
14:f4:308:GLU:OE1	14:f4:332:SER:HB3	2.15	0.47
14:f8:60:ILE:HD12	14:f8:60:ILE:O	2.15	0.47
14:g8:206:VAL:CG1	14:g8:208:TYR:CZ	2.97	0.47
14:h1:114:ARG:NE	14:h1:114:ARG:CA	2.76	0.47
14:i2:188:TYR:CD2	14:i2:193:ALA:HA	2.50	0.47
14:j0:100:ILE:HB	14:j0:105:ILE:HD11	1.96	0.47
14:j5:20:GLY:O	14:j5:21:ASN:C	2.55	0.47
14:j6:290:THR:OG1	14:j6:291:ALA:N	2.48	0.47
14:k5:96:VAL:CG2	14:k5:177:PHE:CD2	2.98	0.47
14:k6:252:ARG:C	14:k6:252:ARG:CD	2.86	0.47
14:l1:20:GLY:O	14:l1:21:ASN:C	2.56	0.47
14:l3:219:PHE:HE1	14:l3:226:TYR:OH	1.98	0.47
10:b6:217:PHE:HE1	14:d6:216:ARG:HG2	1.79	0.47
9:b8:175:TYR:HD2	14:g6:63:ASN:OD1	1.98	0.47
12:c7:57:GLY:O	14:f4:169:GLN:CG	2.63	0.47
14:e3:20:GLY:O	14:e3:21:ASN:C	2.57	0.47
14:e7:206:VAL:CB	14:e7:208:TYR:CZ	2.98	0.47
14:f1:260:LYS:HE2	14:f1:421:TYR:CZ	2.50	0.47
14:f7:312:VAL:CG1	14:f7:408:ALA:HB1	2.45	0.47
14:g8:260:LYS:HD2	14:g8:261:TYR:HD2	1.80	0.47
14:i9:260:LYS:CE	14:i9:357:ALA:CB	2.93	0.47
14:j6:337:VAL:O	14:j6:338:GLN:C	2.57	0.47
14:j7:114:ARG:NE	14:j7:114:ARG:CA	2.77	0.47
14:k7:188:TYR:CD2	14:k7:193:ALA:HA	2.50	0.47
14:l1:245:THR:OG1	14:l1:246:GLN:N	2.47	0.47
10:b6:489:ASP:OD1	10:b6:489:ASP:N	2.47	0.47
9:b7:202:GLN:HB2	14:j4:11:TYR:HD2	1.79	0.47
11:c5:9:ALA:HB2	12:c6:147:VAL:HG11	1.97	0.47
14:d1:435:TYR:O	14:d1:436:ALA:C	2.59	0.47
14:d3:114:ARG:NH1	14:d3:118:ALA:HB2	2.29	0.47
14:d7:96:VAL:HG22	14:d7:177:PHE:HD1	1.79	0.47
14:e6:20:GLY:O	14:e6:21:ASN:C	2.56	0.47
14:f1:188:TYR:CE1	14:f1:193:ALA:HB2	2.50	0.47
14:f3:239:ALA:O	14:f3:240:THR:C	2.58	0.47
14:g0:99:GLU:OE1	14:g0:176:TYR:CE1	2.68	0.47
14:g2:290:THR:OG1	14:g2:291:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g5:96:VAL:HG22	14:g5:177:PHE:CD2	2.50	0.47
14:g7:20:GLY:O	14:g7:21:ASN:C	2.57	0.47
14:g9:14:GLN:HG2	14:j7:435:TYR:CZ	2.47	0.47
14:h3:20:GLY:O	14:h3:21:ASN:C	2.55	0.47
14:h6:329:ARG:NH1	14:h6:333:TYR:CZ	2.83	0.47
14:h7:182:GLN:CB	14:h7:188:TYR:CD2	2.98	0.47
14:h8:290:THR:OG1	14:h8:291:ALA:N	2.48	0.47
14:i2:182:GLN:HB2	14:i2:188:TYR:CD1	2.50	0.47
14:i7:290:THR:OG1	14:i7:291:ALA:N	2.47	0.47
14:i9:260:LYS:NZ	14:i9:366:SER:OG	2.48	0.47
14:j1:266:PHE:HE2	14:j1:383:TYR:OH	1.98	0.47
14:j7:260:LYS:HB2	14:j7:421:TYR:CE1	2.49	0.47
14:k3:96:VAL:HG13	14:k3:177:PHE:CD1	2.50	0.47
14:k9:114:ARG:NH1	14:k9:118:ALA:HB2	2.30	0.47
5:a5:62:THR:CG2	14:g3:425:ARG:HD2	2.43	0.46
10:b6:215:HIS:HB2	14:d6:62:ARG:CG	2.45	0.46
10:b6:221:LEU:HD23	14:g4:9:VAL:HG13	1.97	0.46
10:b6:285:GLN:CB	14:k3:432:GLY:HA2	2.46	0.46
10:b6:300:GLU:HG2	10:b6:303:TYR:HB2	1.97	0.46
12:c6:140:TYR:HE1	14:h8:213:THR:N	2.12	0.46
14:d1:65:ASP:OD1	14:d1:216:ARG:NH1	2.49	0.46
14:d2:182:GLN:HB2	14:d2:188:TYR:CD2	2.50	0.46
14:d6:260:LYS:HB2	14:d6:421:TYR:CE1	2.49	0.46
14:e4:20:GLY:O	14:e4:21:ASN:C	2.58	0.46
14:g3:33:ARG:HD2	14:j1:20:GLY:O	2.15	0.46
14:g5:170:TYR:CD2	9:l5:165:THR:HB	2.50	0.46
14:g9:35:THR:HG21	14:g9:215:GLU:HB2	1.96	0.46
14:h7:145:LYS:HE2	14:h7:147:PHE:CD2	2.50	0.46
14:i9:329:ARG:NH2	14:i9:333:TYR:CD2	2.83	0.46
14:k3:187:ASN:ND2	14:k3:188:TYR:HE1	2.14	0.46
14:k4:86:TYR:OH	14:k4:114:ARG:NH2	2.48	0.46
14:k5:20:GLY:O	14:k5:21:ASN:C	2.57	0.46
14:k7:20:GLY:O	14:k7:21:ASN:C	2.57	0.46
14:l0:229:GLU:HG2	14:l0:421:TYR:CE2	2.50	0.46
14:l2:290:THR:OG1	14:l2:291:ALA:N	2.49	0.46
3:a3:278:GLU:HG3	14:i7:227:LEU:HD22	1.96	0.46
8:a8:112:ILE:O	8:a8:116:GLU:HG3	2.16	0.46
10:b6:337:ILE:HD13	14:l2:210:PHE:CE2	2.50	0.46
9:b7:160:TRP:HZ2	14:d8:101:GLY:O	1.98	0.46
11:c4:42:PRO:CG	14:f1:11:TYR:CE1	2.98	0.46
12:c6:117:ARG:CZ	14:f1:5:LEU:CD2	2.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c9:91:GLY:HA3	9:l5:160:TRP:HB3	1.97	0.46
14:d2:20:GLY:O	14:d2:21:ASN:C	2.57	0.46
14:f4:211:LEU:O	14:f4:216:ARG:NH2	2.48	0.46
14:f6:241:PRO:HG2	14:f6:386:CYS:SG	2.55	0.46
14:g9:20:GLY:O	14:g9:21:ASN:C	2.57	0.46
14:g9:60:ILE:HD12	14:g9:165:LEU:CD2	2.44	0.46
14:h5:260:LYS:HE2	14:h5:419:LYS:HD2	1.97	0.46
14:i3:114:ARG:NE	14:i3:114:ARG:CA	2.78	0.46
14:i5:252:ARG:CD	14:k5:252:ARG:HD2	2.36	0.46
14:i7:86:TYR:HE2	14:i7:114:ARG:HE	1.62	0.46
14:j9:211:LEU:HD13	14:j9:215:GLU:HG2	1.97	0.46
14:k1:188:TYR:CE2	14:k1:193:ALA:HB2	2.50	0.46
14:k3:175:LEU:HB3	14:k3:177:PHE:CZ	2.50	0.46
14:k8:175:LEU:HD13	14:k8:177:PHE:HZ	1.80	0.46
3:a2:193:TYR:O	3:a2:203:ARG:NH1	2.48	0.46
3:a2:222:ILE:O	3:a2:227:HIS:NE2	2.48	0.46
3:a2:284:TYR:OH	14:d1:170:TYR:OH	2.22	0.46
9:b0:160:TRP:HZ3	14:f7:216:ARG:NH2	2.14	0.46
9:b1:154:PHE:CD1	14:d7:225:GLU:HG3	2.51	0.46
10:b6:285:GLN:HA	14:k3:432:GLY:HA3	1.96	0.46
12:c6:69:VAL:HG12	14:f6:430:MET:HB2	1.98	0.46
12:c7:36:VAL:HG13	14:f4:171:HIS:CE1	2.50	0.46
12:c7:74:THR:N	14:i2:9:VAL:HG21	2.25	0.46
14:d6:96:VAL:HG13	14:d6:177:PHE:CE1	2.50	0.46
14:e1:90:GLU:HG2	14:e1:272:TYR:HH	1.78	0.46
14:f1:27:PHE:HE1	14:k7:209:ILE:CD1	2.28	0.46
14:f1:260:LYS:CD	14:f1:360:PRO:O	2.64	0.46
14:g7:166:ILE:O	14:g7:169:GLN:OE1	2.33	0.46
14:h4:241:PRO:HG2	14:h4:386:CYS:SG	2.55	0.46
14:h6:33:ARG:HD2	14:k4:20:GLY:O	2.15	0.46
14:h6:60:ILE:CD1	14:h6:67:ILE:HD13	2.45	0.46
14:h6:60:ILE:HD11	14:h6:173:VAL:HG11	1.98	0.46
14:h7:161:LEU:O	14:h7:162:ALA:C	2.58	0.46
14:h9:96:VAL:HG11	14:h9:177:PHE:CE2	2.50	0.46
14:i4:20:GLY:O	14:i4:21:ASN:C	2.57	0.46
14:j6:182:GLN:CB	14:j6:188:TYR:CD1	2.98	0.46
14:j6:386:CYS:SG	14:j6:409:THR:HG22	2.56	0.46
9:b3:164:ASN:ND2	14:h0:9:VAL:CG2	2.78	0.46
9:b3:166:GLN:NE2	14:g9:372:SER:CA	2.56	0.46
9:b3:168:SER:CB	14:j8:372:SER:O	2.63	0.46
11:c5:23:LEU:HB2	14:k3:375:ASP:OD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c9:68:GLU:OE1	13:c9:71:ARG:NE	2.44	0.46
14:d1:161:LEU:O	14:d1:162:ALA:C	2.58	0.46
14:e0:260:LYS:HB2	14:e0:421:TYR:CE1	2.50	0.46
14:e5:90:GLU:HG2	14:e5:272:TYR:OH	2.15	0.46
14:e5:329:ARG:NH1	14:h3:41:SER:OG	2.49	0.46
14:g5:169:GLN:CB	9:l5:183:ILE:HD13	2.45	0.46
14:h5:175:LEU:HB3	14:h5:177:PHE:CE1	2.51	0.46
14:h5:290:THR:OG1	14:h5:291:ALA:N	2.48	0.46
14:h6:37:PHE:CE1	14:k4:26:PHE:HD2	2.34	0.46
14:h7:290:THR:OG1	14:h7:291:ALA:N	2.48	0.46
14:i5:252:ARG:HD2	14:k5:252:ARG:CZ	2.45	0.46
14:i5:260:LYS:CD	14:i5:421:TYR:OH	2.59	0.46
14:i8:290:THR:OG1	14:i8:291:ALA:N	2.49	0.46
14:k7:175:LEU:HD13	14:k7:177:PHE:CZ	2.46	0.46
14:l3:99:GLU:OE1	14:l3:102:GLY:CA	2.48	0.46
9:c0:165:THR:OG1	14:k4:437:ASN:O	2.29	0.46
12:c6:130:THR:HG22	14:k2:372:SER:O	2.15	0.46
12:c7:78:CYS:CB	12:c7:84:GLY:CA	2.91	0.46
14:e1:60:ILE:HD12	14:e1:67:ILE:HD13	1.98	0.46
14:e1:340:TYR:CD1	14:g9:132:MET:SD	3.09	0.46
14:e7:329:ARG:NH1	14:e7:333:TYR:HE2	2.05	0.46
14:f8:222:LEU:O	14:f8:224:HIS:CD2	2.69	0.46
14:g2:20:GLY:O	14:g2:21:ASN:C	2.56	0.46
14:g2:187:ASN:ND2	14:g2:188:TYR:CE1	2.83	0.46
14:g3:329:ARG:NH2	14:g3:333:TYR:CE2	2.84	0.46
14:h8:241:PRO:HG2	14:h8:386:CYS:SG	2.56	0.46
14:i4:114:ARG:CA	14:i4:114:ARG:NE	2.77	0.46
14:j3:363:ARG:NE	14:j3:363:ARG:CA	2.78	0.46
14:j6:260:LYS:HB2	14:j6:421:TYR:HE2	1.79	0.46
14:j8:60:ILE:HD11	14:j8:173:VAL:CB	2.43	0.46
7:a7:85:TYR:CE2	7:a7:90:VAL:HG22	2.51	0.46
9:b3:192:MET:HE3	14:j8:433:LEU:CB	2.45	0.46
10:b6:353:ASN:OD1	14:l2:436:ALA:HB3	2.16	0.46
12:c6:102:GLY:HA2	14:k7:169:GLN:HB3	1.97	0.46
14:d6:161:LEU:O	14:d6:162:ALA:C	2.57	0.46
14:d9:290:THR:OG1	14:d9:291:ALA:N	2.49	0.46
14:e0:164:PRO:HG3	14:e0:226:TYR:CE2	2.50	0.46
14:e4:146:ARG:HE	14:k0:330:LYS:HG3	1.79	0.46
14:f2:182:GLN:CB	14:f2:188:TYR:CD1	2.99	0.46
14:f4:337:VAL:O	14:f4:338:GLN:C	2.57	0.46
14:f8:306:TYR:CE2	14:f8:346:VAL:CG2	2.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g0:260:LYS:HB2	14:g0:421:TYR:HE1	1.81	0.46
14:g2:374:ILE:CG2	14:g2:377:ALA:HB2	2.46	0.46
14:g5:37:PHE:CE1	14:j3:26:PHE:HD2	2.34	0.46
14:g5:169:GLN:CD	9:l5:183:ILE:CD1	2.89	0.46
14:g6:96:VAL:HG22	14:g6:177:PHE:HD2	1.81	0.46
14:g7:175:LEU:HB3	14:g7:177:PHE:CZ	2.51	0.46
14:g7:229:GLU:N	14:g7:229:GLU:OE1	2.48	0.46
14:h8:182:GLN:HB3	14:h8:188:TYR:CE1	2.51	0.46
14:i3:337:VAL:O	14:i3:338:GLN:C	2.56	0.46
14:j1:20:GLY:O	14:j1:21:ASN:C	2.55	0.46
14:j7:206:VAL:HB	14:j7:208:TYR:HE1	1.78	0.46
14:l2:375:ASP:OD1	14:l2:375:ASP:N	2.45	0.46
4:a4:156:CYS:HB3	4:a4:160:SER:O	2.15	0.46
10:b6:338:ASN:ND2	14:l2:62:ARG:HD2	2.31	0.46
14:d1:290:THR:OG1	14:d1:291:ALA:N	2.48	0.46
14:d9:329:ARG:NH1	14:g7:41:SER:OG	2.48	0.46
14:e2:20:GLY:O	14:e2:21:ASN:C	2.57	0.46
14:e3:257:HIS:CB	14:e3:258:PRO:CD	2.77	0.46
14:f0:121:ARG:CZ	14:f0:129:TYR:CD1	2.98	0.46
14:f1:67:ILE:HG21	14:f1:208:TYR:CE1	2.51	0.46
14:f2:333:TYR:CD2	14:i0:205:TRP:HZ3	2.34	0.46
14:f8:96:VAL:HG11	14:f8:177:PHE:CE1	2.51	0.46
14:f9:312:VAL:CG1	14:f9:408:ALA:HB1	2.45	0.46
14:g2:386:CYS:SG	14:g2:409:THR:HG22	2.56	0.46
14:g6:175:LEU:HD13	14:g6:177:PHE:CZ	2.50	0.46
14:h4:214:GLN:HB2	14:h4:218:ARG:HH12	1.75	0.46
14:i0:33:ARG:HD2	14:k8:20:GLY:O	2.16	0.46
14:i1:135:TRP:CD2	14:i1:147:PHE:HZ	2.33	0.46
14:i1:375:ASP:CG	14:i1:376:ASN:N	2.74	0.46
14:i6:290:THR:OG1	14:i6:291:ALA:N	2.49	0.46
14:i9:290:THR:OG1	14:i9:291:ALA:N	2.48	0.46
14:j0:187:ASN:ND2	14:j0:188:TYR:CE2	2.84	0.46
14:j4:187:ASN:ND2	14:j4:188:TYR:CE2	2.84	0.46
14:k7:329:ARG:NH1	14:k7:333:TYR:CZ	2.83	0.46
5:a5:53:TYR:O	10:b6:209:ALA:CB	2.64	0.46
5:a5:93:PRO:HB3	10:b6:182:VAL:CA	2.43	0.46
6:a6:87:SER:OG	6:a6:88:ILE:N	2.48	0.46
10:b6:217:PHE:CZ	14:d6:217:THR:HA	2.50	0.46
10:b6:240:GLY:C	14:j2:171:HIS:HD2	2.24	0.46
14:d0:175:LEU:CB	14:d0:177:PHE:CE1	2.98	0.46
14:d4:316:ALA:HB3	14:d4:334:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d7:337:VAL:O	14:d7:338:GLN:C	2.57	0.46
14:d8:188:TYR:CE2	14:d8:193:ALA:HB2	2.51	0.46
14:e1:290:THR:OG1	14:e1:291:ALA:N	2.48	0.46
14:e2:211:LEU:O	14:e2:216:ARG:NH2	2.49	0.46
14:e2:386:CYS:O	14:e2:386:CYS:SG	2.72	0.46
14:e5:229:GLU:OE2	14:e5:260:LYS:NZ	2.45	0.46
14:f1:260:LYS:HD2	14:f1:261:TYR:HD2	1.78	0.46
14:f1:290:THR:OG1	14:f1:291:ALA:N	2.48	0.46
14:f1:363:ARG:NE	14:f1:363:ARG:CA	2.78	0.46
14:f8:290:THR:OG1	14:f8:291:ALA:N	2.48	0.46
14:f9:337:VAL:O	14:f9:338:GLN:C	2.56	0.46
14:g3:209:ILE:CB	14:j1:27:PHE:CE1	2.97	0.46
14:g5:260:LYS:HD3	14:g5:421:TYR:CZ	2.51	0.46
14:g6:63:ASN:O	14:g6:210:PHE:CE2	2.69	0.46
14:g8:33:ARG:HD2	14:j6:20:GLY:O	2.15	0.46
14:h8:187:ASN:ND2	14:h8:188:TYR:CE1	2.84	0.46
14:h9:226:TYR:HE1	14:h9:426:ILE:HD13	1.75	0.46
14:h9:226:TYR:HD1	14:h9:426:ILE:CD1	2.28	0.46
14:i0:243:ALA:HA	14:i0:386:CYS:O	2.16	0.46
14:i9:329:ARG:NH1	14:i9:333:TYR:CZ	2.84	0.46
14:k4:260:LYS:HD3	14:k4:421:TYR:CE1	2.51	0.46
14:l2:170:TYR:CD2	14:l2:429:GLY:HA3	2.50	0.46
3:a2:233:MET:HE3	14:d0:21:ASN:OD1	2.16	0.46
9:b3:164:ASN:OD1	14:g9:436:ALA:CB	2.56	0.46
9:b7:164:ASN:OD1	14:d8:436:ALA:HB3	2.16	0.46
12:c6:91:GLU:HA	14:k7:433:LEU:O	2.15	0.46
12:c7:53:LEU:HD21	14:i3:169:GLN:CB	2.46	0.46
12:c8:156:PHE:O	14:e5:425:ARG:NH2	2.39	0.46
14:e2:188:TYR:HE2	14:e2:193:ALA:HB2	1.81	0.46
14:g0:245:THR:OG1	14:g0:246:GLN:N	2.49	0.46
14:g2:3:GLY:HA2	14:j0:325:ARG:O	2.16	0.46
14:g4:363:ARG:NE	14:g4:363:ARG:CA	2.79	0.46
14:g7:290:THR:OG1	14:g7:291:ALA:N	2.49	0.46
14:g9:290:THR:OG1	14:g9:291:ALA:N	2.48	0.46
14:h0:182:GLN:HB2	14:h0:188:TYR:CD1	2.50	0.46
14:h6:337:VAL:O	14:h6:338:GLN:C	2.58	0.46
14:i5:182:GLN:HB3	14:i5:188:TYR:CE1	2.51	0.46
14:j0:425:ARG:HD2	14:j0:434:ALA:HB2	1.98	0.46
14:j4:224:HIS:CB	14:j4:226:TYR:CE2	2.99	0.46
14:j7:60:ILE:HD12	14:j7:165:LEU:HD21	1.97	0.46
14:k0:175:LEU:HB3	14:k0:177:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:k3:337:VAL:O	14:k3:338:GLN:C	2.58	0.46
14:k9:404:THR:OG1	14:k9:405:ALA:N	2.49	0.46
2:a1:146:PHE:O	2:a1:146:PHE:CD1	2.69	0.46
3:a2:271:GLY:O	14:d1:435:TYR:CE1	2.69	0.46
6:a6:13:SER:O	6:a6:16:ARG:NH1	2.48	0.46
10:b6:318:TYR:HD2	14:l3:5:LEU:HD21	1.69	0.46
10:b6:327:ARG:CZ	14:i4:256:ASN:OD1	2.63	0.46
9:b7:172:ASN:O	14:i9:62:ARG:HD3	2.16	0.46
9:c0:192:MET:HG3	14:g4:103:GLN:NE2	2.30	0.46
11:c4:14:SER:C	11:c4:16:THR:N	2.69	0.46
12:c6:99:LEU:CA	14:k7:170:TYR:CD1	2.96	0.46
12:c6:117:ARG:CZ	14:k7:216:ARG:NH1	2.79	0.46
14:d1:209:ILE:CD1	14:f9:27:PHE:CD1	2.73	0.46
14:d6:60:ILE:O	14:d6:62:ARG:NH1	2.49	0.46
14:d6:114:ARG:NE	14:d6:114:ARG:CA	2.78	0.46
14:e0:20:GLY:O	14:e0:21:ASN:C	2.56	0.46
14:e5:161:LEU:O	14:e5:162:ALA:C	2.58	0.46
14:e5:252:ARG:HH12	14:j6:252:ARG:NE	2.14	0.46
14:e8:363:ARG:NE	14:e8:363:ARG:CA	2.78	0.46
14:f1:229:GLU:OE2	14:f1:363:ARG:NH2	2.49	0.46
14:g1:20:GLY:O	14:g1:21:ASN:C	2.57	0.46
14:g8:206:VAL:HG11	14:g8:208:TYR:CZ	2.50	0.46
14:g9:312:VAL:CG1	14:g9:411:LEU:HD12	2.46	0.46
14:h5:260:LYS:HB2	14:h5:421:TYR:CE1	2.51	0.46
14:h6:211:LEU:O	14:h6:216:ARG:NH2	2.49	0.46
14:i0:290:THR:OG1	14:i0:291:ALA:N	2.49	0.46
14:i1:211:LEU:HD22	14:i1:215:GLU:OE1	2.13	0.46
14:k5:105:ILE:CB	14:k5:433:LEU:HD21	2.46	0.46
14:k5:226:TYR:HD2	14:k5:426:ILE:CD1	2.29	0.46
14:k8:166:ILE:HD12	14:k8:216:ARG:HG3	1.98	0.46
14:l1:363:ARG:NE	14:l1:363:ARG:CA	2.78	0.46
10:b6:252:GLN:NE2	14:j3:103:GLN:CG	2.76	0.45
10:b6:394:THR:HG23	10:b6:397:GLU:H	1.81	0.45
9:b7:195:SER:HB3	14:d9:14:GLN:NE2	2.31	0.45
9:b8:168:SER:HB3	14:j0:372:SER:O	2.16	0.45
11:c3:42:PRO:HB2	14:i1:11:TYR:HE1	1.82	0.45
11:c4:6:ARG:O	11:c4:8:THR:OG1	2.24	0.45
14:d0:211:LEU:HD22	14:d0:215:GLU:HG2	1.97	0.45
14:d4:290:THR:OG1	14:d4:291:ALA:N	2.48	0.45
14:d7:20:GLY:O	14:d7:21:ASN:C	2.59	0.45
14:d7:290:THR:OG1	14:d7:291:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d8:290:THR:OG1	14:d8:291:ALA:N	2.48	0.45
14:e5:290:THR:OG1	14:e5:291:ALA:N	2.48	0.45
14:e6:290:THR:OG1	14:e6:291:ALA:N	2.49	0.45
14:f9:127:TYR:CE2	14:f9:131:ARG:HD2	2.51	0.45
14:f9:213:THR:HA	14:f9:216:ARG:CZ	2.46	0.45
14:f9:213:THR:N	14:f9:216:ARG:HH12	2.14	0.45
14:g1:306:TYR:OH	14:g1:346:VAL:HG13	2.16	0.45
14:g6:290:THR:OG1	14:g6:291:ALA:N	2.49	0.45
14:g7:4:GLY:CA	14:j5:325:ARG:NH1	2.78	0.45
14:g7:226:TYR:CD1	14:g7:426:ILE:CD1	2.99	0.45
14:h0:121:ARG:NH2	14:h0:129:TYR:HE1	2.13	0.45
14:h9:161:LEU:O	14:h9:162:ALA:C	2.57	0.45
14:i1:96:VAL:CG2	14:i1:177:PHE:HD2	2.25	0.45
14:i1:182:GLN:CB	14:i1:188:TYR:CD1	2.99	0.45
14:i1:187:ASN:ND2	14:i1:188:TYR:HE1	2.14	0.45
14:j1:290:THR:OG1	14:j1:291:ALA:N	2.48	0.45
14:k1:96:VAL:HG21	14:k1:177:PHE:HE2	1.76	0.45
5:a5:204:VAL:CG1	13:c9:72:TYR:CG	2.99	0.45
6:a6:4:THR:HG1	6:a6:147:CYS:C	2.19	0.45
9:b3:192:MET:CE	14:j8:436:ALA:HA	2.47	0.45
9:b7:154:PHE:HZ	14:j5:169:GLN:CG	2.29	0.45
12:c8:147:VAL:CG2	14:i0:170:TYR:OH	2.64	0.45
13:c9:95:GLN:OE1	9:l5:160:TRP:HZ3	1.99	0.45
14:d1:337:VAL:O	14:d1:338:GLN:C	2.59	0.45
14:d3:96:VAL:CG1	14:d3:177:PHE:CE1	2.99	0.45
14:e2:290:THR:OG1	14:e2:291:ALA:N	2.48	0.45
14:e8:175:LEU:HB3	14:e8:177:PHE:CE1	2.50	0.45
14:f2:333:TYR:CD2	14:i0:205:TRP:CZ3	3.03	0.45
14:f2:333:TYR:HD2	14:i0:205:TRP:HZ3	1.65	0.45
14:g0:290:THR:OG1	14:g0:291:ALA:N	2.49	0.45
14:g7:168:LEU:O	14:g7:169:GLN:C	2.54	0.45
14:h8:96:VAL:HG22	14:h8:177:PHE:CD1	2.48	0.45
14:i1:226:TYR:CE2	14:k9:28:LYS:HD3	2.50	0.45
14:i9:96:VAL:HG22	14:i9:177:PHE:HD1	1.81	0.45
14:k0:67:ILE:HG21	14:k0:208:TYR:CE2	2.51	0.45
14:k4:290:THR:OG1	14:k4:291:ALA:N	2.49	0.45
2:a1:117:THR:CB	14:d2:169:GLN:HB3	2.42	0.45
2:a1:134:ASP:CG	3:a2:237:ASN:HB3	2.40	0.45
3:a2:268:THR:O	14:f8:427:MET:HE1	2.16	0.45
3:a2:274:THR:O	3:a2:274:THR:HG22	2.15	0.45
9:a9:165:THR:CG2	14:f7:14:GLN:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:291:ARG:HG2	14:k3:372:SER:HA	1.99	0.45
14:d5:337:VAL:O	14:d5:338:GLN:C	2.59	0.45
14:d6:33:ARG:HD2	14:g4:20:GLY:O	2.16	0.45
14:e0:206:VAL:HG11	14:e0:208:TYR:CZ	2.51	0.45
14:e0:260:LYS:HB2	14:e0:421:TYR:HE1	1.81	0.45
14:e3:290:THR:OG1	14:e3:291:ALA:N	2.48	0.45
14:e5:20:GLY:O	14:e5:21:ASN:C	2.60	0.45
14:f0:11:TYR:CE2	14:f0:15:ASP:HB2	2.51	0.45
14:f1:27:PHE:CE1	14:k7:209:ILE:CB	2.99	0.45
14:f7:252:ARG:NE	14:f7:376:ASN:CB	2.79	0.45
14:f8:12:GLY:O	14:f8:13:ALA:C	2.58	0.45
14:f8:35:THR:OG1	14:f8:215:GLU:CD	2.58	0.45
14:g5:337:VAL:O	14:g5:338:GLN:C	2.60	0.45
14:g8:329:ARG:NH1	14:g8:333:TYR:CZ	2.84	0.45
14:g9:206:VAL:HB	14:g9:208:TYR:HE1	1.78	0.45
14:i2:33:ARG:HD2	14:l0:20:GLY:O	2.16	0.45
14:i7:229:GLU:OE2	14:i7:363:ARG:NH2	2.50	0.45
14:i7:363:ARG:NE	14:i7:363:ARG:CA	2.79	0.45
14:i8:363:ARG:NE	14:i8:363:ARG:CA	2.76	0.45
14:j4:188:TYR:HE1	14:j4:193:ALA:HB2	1.81	0.45
14:j6:219:PHE:HA	14:j6:224:HIS:CE1	2.51	0.45
14:j8:60:ILE:CG1	14:j8:173:VAL:HB	2.46	0.45
14:j8:206:VAL:HG12	14:j8:208:TYR:CE1	2.51	0.45
14:j8:329:ARG:NH1	14:j8:333:TYR:CZ	2.80	0.45
14:k1:337:VAL:O	14:k1:338:GLN:C	2.57	0.45
14:l0:329:ARG:NH1	14:l0:333:TYR:CE2	2.84	0.45
2:a1:166:GLN:HE21	14:d0:5:LEU:HD11	1.82	0.45
5:a5:74:THR:HG22	5:a5:172:PHE:HB3	1.98	0.45
5:a5:143:MET:CE	14:g3:170:TYR:CZ	2.85	0.45
9:b0:151:ALA:HB1	14:f7:429:GLY:HA3	1.98	0.45
9:c1:191:TRP:HE1	14:e8:432:GLY:N	2.14	0.45
12:c7:142:TRP:HH2	14:k1:427:MET:HG2	1.81	0.45
14:d0:74:PHE:CE1	14:d0:202:MET:SD	3.10	0.45
14:d0:96:VAL:HG11	14:d0:177:PHE:CE2	2.52	0.45
14:d5:96:VAL:HG22	14:d5:177:PHE:HD2	1.81	0.45
14:e1:325:ARG:O	14:j7:3:GLY:HA2	2.16	0.45
14:f2:114:ARG:NE	14:f2:114:ARG:CA	2.76	0.45
14:h1:290:THR:OG1	14:h1:291:ALA:N	2.50	0.45
14:h7:188:TYR:CE1	14:h7:193:ALA:HB2	2.51	0.45
14:h7:211:LEU:O	14:h7:216:ARG:NH2	2.50	0.45
14:h8:325:ARG:NH2	14:k6:39:ILE:O	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h9:241:PRO:HG2	14:h9:386:CYS:SG	2.56	0.45
14:i3:290:THR:OG1	14:i3:291:ALA:N	2.48	0.45
14:i5:260:LYS:HE3	14:i5:261:TYR:CE2	2.51	0.45
14:j5:72:VAL:HG11	14:j5:74:PHE:HZ	1.71	0.45
14:j7:161:LEU:O	14:j7:162:ALA:C	2.59	0.45
14:k4:86:TYR:O	14:k4:87:TYR:C	2.60	0.45
14:k4:260:LYS:CD	14:k4:421:TYR:OH	2.56	0.45
14:k8:114:ARG:NH1	14:k8:118:ALA:HB2	2.32	0.45
14:k9:260:LYS:CE	14:k9:421:TYR:CZ	3.00	0.45
8:a8:35:GLU:HA	8:a8:36:PRO:HD2	1.83	0.45
9:b5:191:TRP:HD1	14:i9:432:GLY:CA	2.29	0.45
10:b6:124:ARG:O	10:b6:128:LEU:HB2	2.16	0.45
11:c3:22:THR:CG2	11:c3:23:LEU:N	2.42	0.45
12:c6:88:VAL:O	14:l2:9:VAL:HG11	2.16	0.45
12:c8:104:GLY:HA3	14:f2:170:TYR:CG	2.51	0.45
13:c9:132:TYR:HD1	14:g2:170:TYR:HE2	1.65	0.45
14:d2:114:ARG:NH1	14:d2:118:ALA:HB2	2.32	0.45
14:d8:4:GLY:CA	14:g6:325:ARG:NH1	2.80	0.45
14:e0:24:ILE:HG21	14:j6:32:ARG:CD	2.47	0.45
14:e0:206:VAL:CG1	14:e0:208:TYR:CZ	3.00	0.45
14:e3:243:ALA:CB	14:e3:386:CYS:O	2.64	0.45
14:e7:330:LYS:O	14:e7:333:TYR:HB3	2.16	0.45
14:f0:337:VAL:O	14:f0:338:GLN:C	2.60	0.45
14:f5:363:ARG:NE	14:f5:363:ARG:CA	2.79	0.45
14:f6:145:LYS:NZ	14:l2:309:GLN:OE1	2.47	0.45
14:f6:290:THR:OG1	14:f6:291:ALA:N	2.50	0.45
14:f8:363:ARG:NE	14:f8:363:ARG:CA	2.79	0.45
14:g0:260:LYS:CD	14:g0:421:TYR:OH	2.59	0.45
14:i3:182:GLN:CB	14:i3:188:TYR:CD2	2.99	0.45
14:i5:337:VAL:O	14:i5:338:GLN:C	2.60	0.45
14:j2:114:ARG:NE	14:j2:114:ARG:CA	2.77	0.45
14:j3:281:ILE:CD1	14:j3:310:LEU:HD11	2.45	0.45
14:k2:337:VAL:O	14:k2:338:GLN:C	2.58	0.45
14:k5:290:THR:OG1	14:k5:291:ALA:N	2.49	0.45
14:k7:290:THR:OG1	14:k7:291:ALA:N	2.50	0.45
14:k8:20:GLY:O	14:k8:21:ASN:C	2.57	0.45
14:l1:188:TYR:CE1	14:l1:193:ALA:HB2	2.51	0.45
14:l3:337:VAL:O	14:l3:338:GLN:C	2.59	0.45
9:a9:170:LEU:CD2	9:a9:199:ASN:ND2	2.76	0.45
9:b4:199:ASN:CB	14:d9:373:ARG:NH2	2.75	0.45
12:c7:23:LEU:HD11	14:f4:425:ARG:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c7:117:ARG:HH11	14:f2:5:LEU:HD21	1.72	0.45
12:c7:147:VAL:HG22	14:h9:170:TYR:OH	2.13	0.45
14:d5:96:VAL:HG13	14:d5:177:PHE:CE2	2.52	0.45
14:d5:306:TYR:CE1	14:d5:346:VAL:HG22	2.52	0.45
14:e2:20:GLY:O	14:j8:33:ARG:HD2	2.16	0.45
14:f2:290:THR:OG1	14:f2:291:ALA:N	2.49	0.45
14:f6:252:ARG:CD	14:k7:252:ARG:HD3	2.46	0.45
14:g3:337:VAL:O	14:g3:338:GLN:C	2.58	0.45
14:g8:260:LYS:CD	14:g8:360:PRO:CA	2.80	0.45
14:g9:164:PRO:HG3	14:g9:226:TYR:CE2	2.51	0.45
14:h1:20:GLY:O	14:h1:21:ASN:C	2.58	0.45
14:h1:99:GLU:HG2	14:h1:104:ARG:HA	1.98	0.45
14:h2:175:LEU:HD13	14:h2:177:PHE:CZ	2.49	0.45
14:h7:145:LYS:CE	14:h7:147:PHE:CE2	2.99	0.45
14:i0:188:TYR:CE1	14:i0:193:ALA:HB2	2.52	0.45
14:i5:260:LYS:HE3	14:i5:261:TYR:HE2	1.82	0.45
14:i7:329:ARG:NH2	14:i7:333:TYR:CD2	2.85	0.45
14:j5:74:PHE:HE1	14:j5:202:MET:SD	2.39	0.45
14:j6:67:ILE:HG21	14:j6:208:TYR:CE2	2.51	0.45
14:j7:60:ILE:CD1	14:j7:173:VAL:HB	2.44	0.45
14:k3:290:THR:OG1	14:k3:291:ALA:N	2.48	0.45
14:k6:337:VAL:O	14:k6:338:GLN:C	2.58	0.45
3:a2:279:TRP:CZ3	14:d1:430:MET:O	2.70	0.45
5:a5:32:PHE:CE2	14:d6:427:MET:HB2	2.51	0.45
7:a7:73:SER:OG	7:a7:74:ASP:N	2.47	0.45
10:b6:284:THR:HG21	14:k3:430:MET:SD	2.57	0.45
12:c6:124:ARG:O	14:h9:373:ARG:NH1	2.40	0.45
14:d0:20:GLY:O	14:d0:21:ASN:C	2.58	0.45
14:d1:308:GLU:OE2	14:d1:336:LYS:CE	2.53	0.45
14:d1:329:ARG:NH2	14:d1:333:TYR:CD1	2.84	0.45
14:d6:187:ASN:ND2	14:d6:188:TYR:HE1	2.15	0.45
14:e2:37:PHE:CE1	14:h0:26:PHE:HD2	2.35	0.45
14:g3:182:GLN:HB2	14:g3:188:TYR:CD1	2.51	0.45
14:g6:67:ILE:HG21	14:g6:208:TYR:CE2	2.52	0.45
14:g8:187:ASN:ND2	14:g8:188:TYR:HE1	2.15	0.45
14:g9:14:GLN:CG	14:j7:435:TYR:CE1	2.91	0.45
14:h0:290:THR:OG1	14:h0:291:ALA:N	2.48	0.45
14:h7:312:VAL:CG1	14:h7:408:ALA:HB1	2.47	0.45
14:i1:96:VAL:CG1	14:i1:177:PHE:CE2	2.99	0.45
14:i3:386:CYS:SG	14:i3:409:THR:CG2	3.05	0.45
14:i9:337:VAL:O	14:i9:338:GLN:C	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j0:433:LEU:HD23	14:j0:433:LEU:H	1.80	0.45
14:j6:187:ASN:ND2	14:j6:188:TYR:HE1	2.15	0.45
14:k0:73:GLU:N	14:k0:73:GLU:CD	2.74	0.45
14:k2:114:ARG:NH1	14:k2:118:ALA:HB2	2.32	0.45
2:a1:157:VAL:CG1	14:d1:170:TYR:CE1	3.00	0.45
3:a3:234:ARG:HH12	14:i7:28:LYS:HG2	1.79	0.45
4:a4:181:LEU:HB2	4:a4:186:TRP:CZ3	2.51	0.45
4:a4:242:TRP:HZ3	4:a4:248:GLY:HA2	1.81	0.45
5:a5:26:PHE:O	14:d6:221:GLN:HG2	2.16	0.45
9:b7:162:GLY:HA2	14:d8:433:LEU:O	2.16	0.45
11:c5:23:LEU:HD23	14:k3:321:ASN:HD21	1.81	0.45
12:c6:137:PHE:CD1	14:k6:9:VAL:HG21	2.48	0.45
14:d7:175:LEU:HD13	14:d7:177:PHE:HZ	1.82	0.45
14:e4:290:THR:OG1	14:e4:291:ALA:N	2.49	0.45
14:e7:290:THR:OG1	14:e7:291:ALA:N	2.48	0.45
14:e9:114:ARG:NH1	14:e9:118:ALA:HB2	2.31	0.45
14:f0:114:ARG:HH21	14:f0:117:ASP:CG	2.23	0.45
14:f2:372:SER:OG	14:f2:437:ASN:O	2.30	0.45
14:f5:290:THR:OG1	14:f5:291:ALA:N	2.49	0.45
14:f5:425:ARG:NH2	14:l1:17:TYR:HH	2.12	0.45
14:g9:404:THR:OG1	14:g9:405:ALA:N	2.50	0.45
14:h2:290:THR:OG1	14:h2:291:ALA:N	2.49	0.45
14:h5:337:VAL:O	14:h5:338:GLN:C	2.60	0.45
14:h6:114:ARG:NE	14:h6:114:ARG:CA	2.79	0.45
14:i1:337:VAL:O	14:i1:338:GLN:C	2.59	0.45
14:i9:241:PRO:HG2	14:i9:386:CYS:SG	2.57	0.45
14:j2:337:VAL:O	14:j2:338:GLN:C	2.60	0.45
14:j3:187:ASN:ND2	14:j3:188:TYR:HE1	2.13	0.45
14:j4:290:THR:OG1	14:j4:291:ALA:N	2.49	0.45
14:k0:187:ASN:ND2	14:k0:188:TYR:CE2	2.85	0.45
14:k4:20:GLY:O	14:k4:21:ASN:C	2.59	0.45
14:k6:175:LEU:HB3	14:k6:177:PHE:CZ	2.52	0.45
14:k8:93:LEU:HD11	14:k8:177:PHE:HD1	1.82	0.45
14:k9:290:THR:OG1	14:k9:291:ALA:N	2.49	0.45
14:l0:290:THR:OG1	14:l0:291:ALA:N	2.49	0.45
14:l1:290:THR:OG1	14:l1:291:ALA:N	2.50	0.45
5:a5:93:PRO:HA	10:b6:182:VAL:HG23	1.98	0.45
9:b3:155:LEU:CD1	14:e2:216:ARG:CG	2.95	0.45
10:b6:202:LEU:HD21	14:g3:321:ASN:HD22	1.82	0.45
10:b6:243:THR:HG22	14:j3:170:TYR:O	2.14	0.45
9:b8:191:TRP:O	9:b8:191:TRP:CD1	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c5:42:PRO:CB	14:f0:16:VAL:HG22	2.47	0.45
12:c6:117:ARG:NH1	14:f1:5:LEU:HD22	2.31	0.45
12:c7:99:LEU:HB2	14:l1:169:GLN:HB3	1.99	0.45
14:d2:290:THR:OG1	14:d2:291:ALA:N	2.50	0.45
14:d8:27:PHE:CG	14:j4:66:LEU:CD1	3.00	0.45
14:d9:17:TYR:HE2	14:g7:227:LEU:CD2	2.30	0.45
14:e1:7:GLN:OE1	14:g9:325:ARG:NH2	2.48	0.45
14:e3:114:ARG:NH1	14:e3:118:ALA:HB2	2.31	0.45
14:e9:206:VAL:CG1	14:e9:208:TYR:CZ	3.00	0.45
14:f0:306:TYR:HE2	14:f0:346:VAL:HG22	1.81	0.45
14:f5:329:ARG:NH1	14:f5:333:TYR:CZ	2.85	0.45
14:f8:35:THR:CG2	14:f8:215:GLU:OE1	2.58	0.45
14:g2:223:PRO:CG	9:l5:152:GLN:HA	2.34	0.45
14:g7:243:ALA:HA	14:g7:386:CYS:O	2.16	0.45
14:g9:161:LEU:O	14:g9:162:ALA:C	2.59	0.45
14:h1:67:ILE:CG2	14:h1:208:TYR:CD1	3.00	0.45
14:h5:260:LYS:HB2	14:h5:421:TYR:HE1	1.82	0.45
14:i2:290:THR:OG1	14:i2:291:ALA:N	2.48	0.45
14:i7:435:TYR:C	14:j0:2:ALA:HB2	2.42	0.45
14:j7:206:VAL:HG11	14:j7:208:TYR:CZ	2.52	0.45
14:k3:114:ARG:NH1	14:k3:118:ALA:HB2	2.32	0.45
14:k5:337:VAL:O	14:k5:338:GLN:C	2.59	0.45
14:k7:226:TYR:CD1	14:k7:426:ILE:HD13	2.51	0.45
14:k9:260:LYS:HE2	14:k9:421:TYR:CZ	2.52	0.45
14:l1:90:GLU:OE1	14:l1:114:ARG:CA	2.65	0.45
14:l2:164:PRO:HG3	14:l2:226:TYR:CE1	2.52	0.45
2:a1:151:PHE:HZ	3:a2:203:ARG:HH21	1.65	0.45
8:a8:132:PRO:HB2	8:a8:135:LEU:CB	2.46	0.45
10:b6:337:ILE:HD13	14:l2:210:PHE:HD2	1.78	0.45
9:c1:203:LYS:HB2	14:e9:11:TYR:CD2	2.52	0.45
12:c6:70:VAL:CA	14:f6:432:GLY:HA2	2.47	0.45
12:c7:36:VAL:HG13	14:f4:171:HIS:HE1	1.82	0.45
14:d3:175:LEU:CD1	14:d3:177:PHE:HZ	2.25	0.45
14:e2:245:THR:OG1	14:e2:246:GLN:N	2.49	0.45
14:e6:363:ARG:NE	14:e6:363:ARG:CA	2.79	0.45
14:g1:40:GLU:CB	14:g1:210:PHE:HE1	2.29	0.45
14:h4:14:GLN:CD	14:h4:14:GLN:H	2.25	0.45
14:h7:219:PHE:HE1	14:h7:226:TYR:OH	1.99	0.45
14:h8:425:ARG:HH12	14:h8:434:ALA:HA	1.82	0.45
14:i0:114:ARG:NH1	14:i0:118:ALA:HB2	2.32	0.45
14:i0:209:ILE:HG23	14:k8:27:PHE:HZ	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i3:363:ARG:NE	14:i3:363:ARG:CA	2.80	0.45
14:i4:161:LEU:O	14:i4:162:ALA:C	2.60	0.45
14:i5:386:CYS:SG	14:i5:409:THR:HG22	2.57	0.45
14:i7:25:THR:OG1	14:i7:26:PHE:N	2.50	0.45
14:j1:372:SER:O	9:l5:169:SER:OG	2.32	0.45
14:j4:96:VAL:HG23	14:j4:177:PHE:CD2	2.51	0.45
14:k0:20:GLY:O	14:k0:21:ASN:C	2.60	0.45
14:k1:161:LEU:O	14:k1:162:ALA:C	2.60	0.45
14:k1:175:LEU:HB3	14:k1:177:PHE:CE1	2.52	0.45
14:k1:290:THR:OG1	14:k1:291:ALA:N	2.49	0.45
14:k4:373:ARG:HA	14:k4:373:ARG:HD2	1.67	0.45
14:k5:105:ILE:HA	14:k5:433:LEU:HD21	1.98	0.45
14:k6:290:THR:OG1	14:k6:291:ALA:N	2.48	0.45
14:k8:187:ASN:ND2	14:k8:188:TYR:HE1	2.15	0.45
3:a2:222:ILE:HD13	14:d1:428:SER:HB2	1.99	0.44
9:b1:158:THR:OG1	9:b1:159:GLN:N	2.50	0.44
9:b2:161:ILE:O	14:e0:436:ALA:CA	2.66	0.44
10:b6:335:PRO:CD	14:f6:5:LEU:HD11	2.46	0.44
10:b6:418:MET:O	10:b6:422:GLU:CB	2.65	0.44
11:c3:58:GLN:NE2	14:e4:217:THR:HG23	2.31	0.44
11:c3:58:GLN:CD	14:e4:217:THR:HG23	2.42	0.44
11:c4:22:THR:HG22	14:k2:375:ASP:OD2	2.17	0.44
11:c4:23:LEU:HB2	14:k2:375:ASP:OD2	2.17	0.44
14:d4:17:TYR:HE2	14:g2:435:TYR:CZ	2.35	0.44
14:d6:90:GLU:OE2	14:d6:129:TYR:HE2	2.01	0.44
14:f8:130:ARG:HG2	14:f8:136:VAL:HG11	1.99	0.44
14:f8:175:LEU:HB2	14:f8:177:PHE:CE2	2.52	0.44
14:g2:72:VAL:HG21	14:g2:177:PHE:CE2	2.53	0.44
14:g2:435:TYR:O	14:g2:436:ALA:C	2.60	0.44
14:g9:312:VAL:CG1	14:g9:408:ALA:HB1	2.47	0.44
14:h0:161:LEU:O	14:h0:162:ALA:C	2.59	0.44
14:h3:320:LEU:HD12	14:h3:325:ARG:HD3	1.98	0.44
14:h6:219:PHE:HE1	14:h6:226:TYR:OH	1.99	0.44
14:i3:182:GLN:HB2	14:i3:188:TYR:CD2	2.52	0.44
14:k8:425:ARG:HH12	14:k8:434:ALA:HB2	1.81	0.44
14:k9:243:ALA:HB2	14:k9:386:CYS:O	2.17	0.44
2:a1:146:PHE:O	2:a1:146:PHE:CG	2.69	0.44
8:a8:124:LEU:HD11	11:c3:65:GLY:CA	2.46	0.44
9:b3:161:ILE:O	14:g9:436:ALA:CA	2.65	0.44
11:c2:67:THR:CG2	14:k0:217:THR:CB	2.93	0.44
12:c7:156:PHE:O	12:c7:156:PHE:CG	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c8:142:TRP:CH2	14:k0:430:MET:O	2.71	0.44
14:e1:337:VAL:O	14:e1:338:GLN:C	2.57	0.44
14:e4:28:LYS:HD3	14:k0:226:TYR:OH	2.17	0.44
14:e7:20:GLY:O	14:e7:21:ASN:C	2.58	0.44
14:e7:187:ASN:ND2	14:e7:188:TYR:HE1	2.15	0.44
14:g8:161:LEU:O	14:g8:162:ALA:C	2.60	0.44
14:g9:239:ALA:O	14:g9:240:THR:C	2.60	0.44
14:h0:187:ASN:ND2	14:h0:188:TYR:HE1	2.13	0.44
14:h2:182:GLN:HB2	14:h2:188:TYR:CD1	2.51	0.44
14:i3:386:CYS:SG	14:i3:409:THR:HG22	2.57	0.44
14:j5:86:TYR:O	14:j5:87:TYR:C	2.59	0.44
14:k8:290:THR:OG1	14:k8:291:ALA:N	2.49	0.44
9:b1:188:VAL:CG1	9:b8:190:PRO:HG3	2.47	0.44
9:b1:196:VAL:HG21	14:j0:170:TYR:HA	2.00	0.44
9:b4:175:TYR:HE1	14:d9:375:ASP:HB2	1.82	0.44
10:b6:313:ALA:HB2	14:k6:170:TYR:HB3	1.98	0.44
12:c7:56:MET:SD	14:i3:170:TYR:HE1	2.36	0.44
12:c8:143:GLN:OE1	14:k0:170:TYR:HE2	2.00	0.44
14:d3:290:THR:OG1	14:d3:291:ALA:N	2.48	0.44
14:e1:60:ILE:CG1	14:e1:173:VAL:HB	2.47	0.44
14:f2:10:ALA:HB1	14:i0:373:ARG:HB2	2.00	0.44
14:f3:150:PRO:HG3	14:k9:340:TYR:CZ	2.53	0.44
14:f4:161:LEU:O	14:f4:162:ALA:C	2.57	0.44
14:f5:161:LEU:O	14:f5:162:ALA:C	2.60	0.44
14:g4:290:THR:OG1	14:g4:291:ALA:N	2.50	0.44
14:g8:211:LEU:HD13	14:g8:215:GLU:HG2	2.00	0.44
14:h3:260:LYS:CD	14:h3:421:TYR:OH	2.56	0.44
14:h3:400:THR:OG1	14:h3:401:GLU:N	2.51	0.44
14:h7:243:ALA:N	14:h7:386:CYS:SG	2.89	0.44
14:h7:312:VAL:CG1	14:h7:411:LEU:HD12	2.48	0.44
14:k6:161:LEU:O	14:k6:162:ALA:C	2.59	0.44
14:k7:400:THR:OG1	14:k7:401:GLU:N	2.48	0.44
14:k8:182:GLN:HB2	14:k8:188:TYR:CD1	2.52	0.44
14:l2:241:PRO:HG2	14:l2:386:CYS:SG	2.57	0.44
14:l2:363:ARG:NE	14:l2:363:ARG:CA	2.79	0.44
2:a1:105:SER:HB2	2:a1:130:ALA:HA	1.98	0.44
3:a3:276:SER:HB3	14:i7:225:GLU:OE1	2.17	0.44
5:a5:151:PHE:CD2	5:a5:153:LEU:HD11	2.50	0.44
7:a7:85:TYR:O	7:a7:90:VAL:HG23	2.17	0.44
12:c6:49:ALA:HB2	14:f6:220:ALA:HB2	1.98	0.44
12:c7:70:VAL:O	12:c7:70:VAL:HG13	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d5:363:ARG:NE	14:d5:363:ARG:CA	2.80	0.44
14:e8:161:LEU:O	14:e8:162:ALA:C	2.58	0.44
14:f0:60:ILE:O	14:f0:60:ILE:HG13	2.17	0.44
14:f4:290:THR:OG1	14:f4:291:ALA:N	2.49	0.44
14:f7:40:GLU:HB3	14:f7:210:PHE:HE1	1.82	0.44
14:f9:226:TYR:CE2	14:i7:28:LYS:CD	3.01	0.44
14:g5:366:SER:O	14:j3:37:PHE:CZ	2.69	0.44
14:h1:175:LEU:HB3	14:h1:177:PHE:CZ	2.52	0.44
14:h1:252:ARG:N	14:h1:252:ARG:CD	2.81	0.44
14:h2:96:VAL:CG1	14:h2:177:PHE:CE2	3.00	0.44
14:h2:188:TYR:CD2	14:h2:193:ALA:HA	2.52	0.44
14:h7:145:LYS:HG3	14:h7:147:PHE:CZ	2.50	0.44
14:i8:5:LEU:HD23	14:i8:8:LEU:CD2	2.47	0.44
14:j0:337:VAL:O	14:j0:338:GLN:C	2.60	0.44
14:j2:290:THR:OG1	14:j2:291:ALA:N	2.50	0.44
14:k0:386:CYS:SG	14:k0:408:ALA:HB3	2.57	0.44
14:k5:226:TYR:HE2	14:k5:426:ILE:HD13	1.79	0.44
14:k6:243:ALA:HB2	14:k6:386:CYS:O	2.17	0.44
14:l0:211:LEU:O	14:l0:216:ARG:NH2	2.51	0.44
14:l1:314:ASP:OD1	14:l1:330:LYS:NZ	2.40	0.44
3:a2:279:TRP:CZ3	14:d1:430:MET:C	2.92	0.44
3:a3:236:LEU:CD1	14:i7:24:ILE:N	2.79	0.44
11:c3:13:PHE:HA	14:e4:63:ASN:HA	2.00	0.44
11:c4:42:PRO:HB2	14:f1:16:VAL:CG2	2.43	0.44
12:c6:58:LEU:CD1	14:f6:430:MET:CG	2.95	0.44
12:c6:70:VAL:CB	14:f6:432:GLY:HA2	2.48	0.44
14:d8:41:SER:OG	14:j4:329:ARG:NH1	2.51	0.44
14:e0:290:THR:OG1	14:e0:291:ALA:N	2.49	0.44
14:f1:182:GLN:CB	14:f1:188:TYR:CD2	3.00	0.44
14:f4:211:LEU:HD22	14:f4:215:GLU:OE2	2.17	0.44
14:g1:376:ASN:C	14:g1:376:ASN:OD1	2.60	0.44
14:g8:290:THR:OG1	14:g8:291:ALA:N	2.50	0.44
14:h0:90:GLU:OE2	14:h0:129:TYR:CE2	2.70	0.44
14:i3:306:TYR:CE2	14:i3:346:VAL:HG22	2.53	0.44
14:i4:114:ARG:HH21	14:i4:117:ASP:CG	2.25	0.44
14:i4:290:THR:OG1	14:i4:291:ALA:N	2.50	0.44
14:i7:219:PHE:HA	14:i7:224:HIS:NE2	2.33	0.44
14:i8:5:LEU:O	14:i8:8:LEU:CG	2.46	0.44
14:j1:337:VAL:O	14:j1:338:GLN:C	2.61	0.44
14:l0:243:ALA:HB2	14:l0:386:CYS:O	2.18	0.44
3:a2:262:GLU:OE1	14:i6:30:VAL:CG1	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a3:231:LEU:HD23	14:i7:26:PHE:CD1	2.52	0.44
4:a4:181:LEU:HB2	4:a4:186:TRP:CH2	2.52	0.44
9:a9:161:ILE:HD12	14:i5:103:GLN:CD	2.41	0.44
9:a9:161:ILE:CG1	14:i5:103:GLN:CD	2.90	0.44
9:b4:161:ILE:HG13	14:d9:430:MET:CB	2.48	0.44
10:b6:233:LEU:HB3	14:d7:9:VAL:CG2	2.48	0.44
12:c8:104:GLY:CA	14:f2:170:TYR:CD2	2.99	0.44
13:c9:13:PHE:CE1	9:l5:152:GLN:NE2	2.80	0.44
14:d3:337:VAL:O	14:d3:338:GLN:C	2.58	0.44
14:e6:211:LEU:HD22	14:e6:215:GLU:OE2	2.17	0.44
14:f1:187:ASN:ND2	14:f1:188:TYR:HE2	2.15	0.44
14:f4:245:THR:OG1	14:f4:246:GLN:N	2.50	0.44
14:g2:182:GLN:CB	14:g2:188:TYR:CD1	3.00	0.44
14:g4:67:ILE:CG2	14:g4:208:TYR:CE2	3.01	0.44
14:h0:337:VAL:O	14:h0:338:GLN:C	2.60	0.44
14:h7:245:THR:OG1	14:h7:246:GLN:N	2.50	0.44
14:i0:226:TYR:CE1	14:k8:28:LYS:HD3	2.52	0.44
14:j5:161:LEU:O	14:j5:162:ALA:C	2.60	0.44
14:j8:135:TRP:CE2	14:j8:147:PHE:HZ	2.35	0.44
2:a1:154:LEU:HD23	3:a2:206:MET:CB	2.47	0.44
3:a2:233:MET:CE	14:d0:21:ASN:OD1	2.66	0.44
10:b6:265:LEU:N	14:h6:436:ALA:HB3	2.33	0.44
9:b7:154:PHE:CA	14:d8:430:MET:HE1	2.48	0.44
14:d1:209:ILE:CG1	14:f9:27:PHE:HE1	2.30	0.44
14:e0:38:ALA:HB1	14:j6:325:ARG:NH2	2.31	0.44
14:e0:41:SER:OG	14:j6:329:ARG:NH1	2.51	0.44
14:e4:209:ILE:HG21	14:h2:27:PHE:CD1	2.50	0.44
14:e6:37:PHE:CD2	14:h4:27:PHE:HZ	2.35	0.44
14:e6:256:ASN:O	14:e6:257:HIS:HB2	2.18	0.44
14:e7:40:GLU:HB3	14:e7:210:PHE:HE1	1.83	0.44
14:e8:99:GLU:OE2	14:e8:102:GLY:C	2.60	0.44
14:e9:330:LYS:O	14:e9:333:TYR:HB3	2.17	0.44
14:f6:62:ARG:NH2	14:f6:172:GLU:OE1	2.49	0.44
14:f6:404:THR:OG1	14:f6:405:ALA:N	2.50	0.44
14:f8:206:VAL:CB	14:f8:208:TYR:CZ	2.99	0.44
14:g4:337:VAL:O	14:g4:338:GLN:C	2.60	0.44
14:g8:17:TYR:HD2	14:j6:423:VAL:HG21	1.66	0.44
14:h5:60:ILE:O	14:h5:60:ILE:HG13	2.17	0.44
14:h6:20:GLY:O	14:h6:21:ASN:C	2.59	0.44
14:h7:187:ASN:ND2	14:h7:188:TYR:CE2	2.85	0.44
14:i1:158:THR:OG1	14:i1:363:ARG:CZ	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i5:90:GLU:OE2	14:i5:129:TYR:CE2	2.70	0.44
14:j8:135:TRP:CD2	14:j8:147:PHE:HZ	2.36	0.44
14:j8:161:LEU:O	14:j8:162:ALA:C	2.59	0.44
14:k7:329:ARG:NH2	14:k7:333:TYR:CD1	2.85	0.44
4:a4:146:ASN:O	4:a4:152:TRP:HA	2.18	0.44
5:a5:60:PRO:HD2	14:d5:17:TYR:OH	2.18	0.44
6:a6:49:PRO:HD3	6:a6:139:HIS:HB3	1.99	0.44
11:c2:20:GLU:HG3	14:h3:5:LEU:HD23	1.99	0.44
11:c4:13:PHE:CB	14:e6:63:ASN:O	2.65	0.44
12:c7:37:ILE:HD11	14:f4:427:MET:CG	2.48	0.44
12:c8:95:THR:O	14:l0:166:ILE:CD1	2.64	0.44
14:d2:86:TYR:O	14:d2:87:TYR:C	2.60	0.44
14:e1:60:ILE:O	14:e1:60:ILE:HG13	2.18	0.44
14:e1:206:VAL:HG11	14:e1:208:TYR:CZ	2.53	0.44
14:e2:187:ASN:ND2	14:e2:188:TYR:CE1	2.86	0.44
14:e6:86:TYR:O	14:e6:87:TYR:C	2.59	0.44
14:e8:290:THR:OG1	14:e8:291:ALA:N	2.49	0.44
14:f0:290:THR:OG1	14:f0:291:ALA:N	2.49	0.44
14:f2:187:ASN:ND2	14:f2:188:TYR:CE1	2.86	0.44
14:f5:34:TYR:O	14:i3:19:THR:HG22	2.18	0.44
14:f6:329:ARG:NH1	14:i4:41:SER:OG	2.51	0.44
14:f6:363:ARG:NE	14:f6:363:ARG:CA	2.79	0.44
14:f8:33:ARG:HD2	14:i6:20:GLY:O	2.18	0.44
14:g3:290:THR:OG1	14:g3:291:ALA:N	2.49	0.44
14:g5:221:GLN:HA	9:l5:184:PRO:HD2	1.99	0.44
14:h4:209:ILE:HG12	14:k2:27:PHE:HE1	1.78	0.44
14:h4:290:THR:OG1	14:h4:291:ALA:N	2.49	0.44
14:h6:182:GLN:CB	14:h6:188:TYR:CD1	3.00	0.44
14:i1:290:THR:OG1	14:i1:291:ALA:N	2.50	0.44
14:i4:260:LYS:NZ	14:i4:366:SER:OG	2.50	0.44
14:i5:252:ARG:HB2	14:k5:252:ARG:NH1	2.32	0.44
14:j5:290:THR:OG1	14:j5:291:ALA:N	2.50	0.44
14:k2:290:THR:OG1	14:k2:291:ALA:N	2.50	0.44
14:k5:230:GLN:HE22	14:k5:433:LEU:CD1	2.31	0.44
14:k6:135:TRP:CD2	14:k6:147:PHE:HZ	2.36	0.44
2:a1:185:PHE:HE2	14:i6:425:ARG:CB	2.26	0.44
10:b6:327:ARG:NH2	14:i4:256:ASN:OD1	2.51	0.44
9:b7:183:ILE:HB	14:i9:170:TYR:CE2	2.53	0.44
9:b7:183:ILE:HB	14:i9:170:TYR:HE2	1.82	0.44
11:c2:58:GLN:OE1	14:e5:217:THR:HG23	2.17	0.44
11:c2:67:THR:CG2	14:k0:218:ARG:N	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c6:117:ARG:NH1	14:f1:5:LEU:HD11	2.20	0.44
12:c7:30:THR:HG22	14:f4:434:ALA:O	2.18	0.44
13:c9:165:PHE:HD1	14:f9:433:LEU:O	2.01	0.44
14:d9:187:ASN:ND2	14:d9:188:TYR:CE2	2.86	0.44
14:f1:226:TYR:CD1	14:f1:426:ILE:CD1	3.01	0.44
14:f5:96:VAL:CG2	14:f5:177:PHE:CD2	3.01	0.44
14:f7:121:ARG:NH2	14:f7:129:TYR:HE1	2.15	0.44
14:g3:329:ARG:NH1	14:j1:41:SER:OG	2.51	0.44
14:h2:96:VAL:CG2	14:h2:177:PHE:CD2	2.99	0.44
14:h7:386:CYS:SG	14:h7:386:CYS:O	2.75	0.44
14:i4:182:GLN:HB3	14:i4:188:TYR:CD1	2.53	0.44
14:i7:400:THR:OG1	14:i7:401:GLU:N	2.46	0.44
14:i8:337:VAL:O	14:i8:338:GLN:C	2.58	0.44
14:j3:337:VAL:O	14:j3:338:GLN:C	2.61	0.44
14:j4:337:VAL:O	14:j4:338:GLN:C	2.60	0.44
14:j9:260:LYS:HE3	14:j9:360:PRO:O	2.05	0.44
14:k0:96:VAL:HG13	14:k0:177:PHE:CE1	2.53	0.44
14:k1:386:CYS:SG	14:k1:409:THR:CG2	3.06	0.44
14:k5:93:LEU:HD11	14:k5:177:PHE:HB3	2.00	0.44
14:k7:161:LEU:O	14:k7:162:ALA:C	2.59	0.44
14:d6:40:GLU:CB	14:d6:210:PHE:HE1	2.31	0.43
14:e1:306:TYR:OH	14:e1:346:VAL:HG21	2.18	0.43
14:e3:257:HIS:CB	14:e3:258:PRO:HD2	2.30	0.43
14:f2:60:ILE:CG1	14:f2:173:VAL:HB	2.47	0.43
14:f2:175:LEU:HD13	14:f2:177:PHE:CZ	2.50	0.43
14:f6:62:ARG:CZ	14:f6:172:GLU:OE1	2.66	0.43
14:f6:63:ASN:O	14:f6:210:PHE:CE2	2.70	0.43
14:f9:329:ARG:NH1	14:i7:41:SER:OG	2.51	0.43
14:g9:86:TYR:HE2	14:g9:114:ARG:HE	1.66	0.43
14:h4:337:VAL:O	14:h4:338:GLN:C	2.60	0.43
14:i3:211:LEU:HD22	14:i3:215:GLU:OE2	2.13	0.43
14:j7:404:THR:OG1	14:j7:405:ALA:N	2.50	0.43
14:k3:86:TYR:O	14:k3:87:TYR:C	2.59	0.43
14:l0:243:ALA:HA	14:l0:386:CYS:O	2.17	0.43
3:a2:284:TYR:OH	14:d1:170:TYR:CZ	2.70	0.43
10:b6:217:PHE:HZ	14:d6:217:THR:HA	1.83	0.43
10:b6:303:TYR:O	14:e9:103:GLN:OE1	2.36	0.43
11:c2:11:ILE:O	14:e5:62:ARG:O	2.36	0.43
11:c5:14:SER:OG	14:h8:103:GLN:HB3	2.16	0.43
12:c7:127:ARG:NH1	14:f1:256:ASN:OD1	2.50	0.43
12:c8:99:LEU:HD12	14:l0:169:GLN:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d1:260:LYS:HE3	14:d1:261:TYR:HE1	1.83	0.43
14:e0:188:TYR:CD2	14:e0:193:ALA:HA	2.52	0.43
14:e0:238:THR:O	14:e0:239:ALA:C	2.61	0.43
14:e3:329:ARG:CZ	14:e3:333:TYR:CD1	3.00	0.43
14:e4:161:LEU:O	14:e4:162:ALA:C	2.59	0.43
14:g5:216:ARG:NH1	9:l5:178:ARG:HD2	2.31	0.43
14:g8:175:LEU:HB3	14:g8:177:PHE:CE2	2.53	0.43
14:h1:96:VAL:HG13	14:h1:177:PHE:CD1	2.53	0.43
14:h1:211:LEU:HD13	14:h1:215:GLU:HG2	2.00	0.43
14:h8:337:VAL:O	14:h8:338:GLN:C	2.62	0.43
14:h9:182:GLN:HB2	14:h9:188:TYR:CD1	2.53	0.43
14:i4:337:VAL:O	14:i4:338:GLN:C	2.61	0.43
14:i8:5:LEU:CD2	14:i8:8:LEU:CD2	2.95	0.43
14:j0:63:ASN:O	14:j0:210:PHE:CZ	2.71	0.43
14:l1:211:LEU:O	14:l1:216:ARG:NH2	2.51	0.43
3:a3:279:TRP:CG	14:i7:423:VAL:CG2	3.02	0.43
4:a4:109:VAL:HG23	4:a4:134:CYS:HB2	1.99	0.43
9:b2:166:GLN:HG3	14:e0:437:ASN:O	2.18	0.43
12:c6:59:SER:CB	14:f5:169:GLN:HB2	2.40	0.43
12:c6:140:TYR:CE1	14:h8:212:ASP:OD1	2.71	0.43
12:c7:34:LYS:HA	12:c7:37:ILE:HG22	1.99	0.43
12:c7:156:PHE:HA	14:e6:425:ARG:CZ	2.47	0.43
14:d5:14:GLN:HG2	14:g3:435:TYR:CG	2.53	0.43
14:d5:86:TYR:O	14:d5:87:TYR:C	2.60	0.43
14:e3:86:TYR:O	14:e3:87:TYR:C	2.60	0.43
14:e3:161:LEU:O	14:e3:162:ALA:C	2.61	0.43
14:e6:40:GLU:HB3	14:e6:210:PHE:CE1	2.52	0.43
14:f3:187:ASN:ND2	14:f3:188:TYR:CE1	2.86	0.43
14:f6:66:LEU:HB2	14:f6:209:ILE:HB	2.00	0.43
14:g3:329:ARG:NH1	14:g3:333:TYR:CE2	2.86	0.43
14:g4:170:TYR:HD2	14:g4:429:GLY:HA3	1.83	0.43
14:g5:290:THR:OG1	14:g5:291:ALA:N	2.47	0.43
14:h8:61:SER:OG	14:h8:63:ASN:OD1	2.33	0.43
14:i7:187:ASN:ND2	14:i7:188:TYR:CE2	2.87	0.43
14:j6:239:ALA:O	14:j6:240:THR:C	2.60	0.43
14:j7:105:ILE:HA	14:j7:433:LEU:CD1	2.46	0.43
14:j8:211:LEU:CD2	14:j8:215:GLU:CD	2.54	0.43
14:k9:96:VAL:HG13	14:k9:177:PHE:CD1	2.53	0.43
14:l0:260:LYS:CE	14:l0:421:TYR:CZ	3.00	0.43
2:a1:151:PHE:CE2	3:a2:203:ARG:HB2	2.53	0.43
9:b2:166:GLN:OE1	14:j7:375:ASP:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b2:170:LEU:HD11	14:e0:373:ARG:C	2.43	0.43
12:c7:156:PHE:O	14:e6:425:ARG:NH2	2.51	0.43
12:c7:166:LEU:HD21	14:j5:375:ASP:OD2	2.18	0.43
14:d3:211:LEU:HD22	14:d3:215:GLU:CD	2.42	0.43
14:d9:427:MET:CE	15:l4:47:TRP:CE3	3.02	0.43
14:e3:258:PRO:O	14:e3:420:ASN:HB2	2.18	0.43
14:e6:121:ARG:CZ	14:e6:129:TYR:CD1	3.00	0.43
14:e9:260:LYS:CE	14:e9:360:PRO:C	2.85	0.43
14:f1:337:VAL:O	14:f1:338:GLN:C	2.60	0.43
14:f2:245:THR:OG1	14:f2:246:GLN:N	2.51	0.43
14:f8:219:PHE:HA	14:f8:224:HIS:HE2	1.83	0.43
14:g3:20:GLY:O	14:g3:21:ASN:C	2.61	0.43
14:g3:182:GLN:CB	14:g3:188:TYR:CD1	3.02	0.43
14:h0:182:GLN:CB	14:h0:188:TYR:CD1	3.01	0.43
14:h9:63:ASN:O	14:h9:210:PHE:CE2	2.71	0.43
14:i4:238:THR:O	14:i4:239:ALA:C	2.56	0.43
14:i7:337:VAL:O	14:i7:338:GLN:C	2.61	0.43
14:j7:103:GLN:HE21	14:j7:103:GLN:HB2	1.45	0.43
14:j9:290:THR:OG1	14:j9:291:ALA:N	2.49	0.43
14:k0:290:THR:OG1	14:k0:291:ALA:N	2.48	0.43
14:k4:245:THR:OG1	14:k4:246:GLN:N	2.52	0.43
14:l1:114:ARG:NE	14:l1:114:ARG:CA	2.77	0.43
3:a2:258:TYR:CB	14:i6:29:THR:HA	2.48	0.43
9:b5:198:PRO:HB3	14:g7:170:TYR:OH	2.18	0.43
10:b6:306:ILE:HD12	14:k6:166:ILE:CG1	2.49	0.43
10:b6:338:ASN:HD22	14:l2:62:ARG:HB3	1.83	0.43
12:c6:105:GLU:CB	14:k7:169:GLN:HG2	2.48	0.43
12:c7:53:LEU:CD2	14:i3:169:GLN:CA	2.95	0.43
12:c8:163:ARG:NH2	14:e5:256:ASN:HB3	2.34	0.43
14:d5:175:LEU:HB3	14:d5:177:PHE:CE1	2.53	0.43
14:e0:329:ARG:NH1	14:g8:41:SER:OG	2.52	0.43
14:e2:337:VAL:O	14:e2:338:GLN:C	2.60	0.43
14:e5:337:VAL:O	14:e5:338:GLN:C	2.60	0.43
14:f1:20:GLY:O	14:f1:21:ASN:C	2.62	0.43
14:f2:386:CYS:SG	14:f2:386:CYS:O	2.77	0.43
14:g0:20:GLY:O	14:g0:21:ASN:C	2.60	0.43
14:g3:30:VAL:HG13	14:g3:30:VAL:O	2.18	0.43
14:g5:365:PRO:HG2	14:j3:34:TYR:CE1	2.54	0.43
14:h0:90:GLU:OE2	14:h0:129:TYR:HE2	2.02	0.43
14:h1:329:ARG:NH2	14:h1:333:TYR:CD2	2.86	0.43
14:h2:161:LEU:O	14:h2:162:ALA:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h3:290:THR:OG1	14:h3:291:ALA:N	2.49	0.43
14:h6:329:ARG:CZ	14:h6:333:TYR:CD1	3.01	0.43
14:i6:86:TYR:OH	14:i6:114:ARG:NH2	2.51	0.43
14:j4:86:TYR:O	14:j4:87:TYR:C	2.61	0.43
14:j5:182:GLN:CB	14:j5:188:TYR:CD1	3.02	0.43
14:j7:290:THR:OG1	14:j7:291:ALA:N	2.49	0.43
14:k4:219:PHE:HE1	14:k4:226:TYR:HH	1.62	0.43
14:k5:265:ASN:CB	14:k5:275:TYR:CD1	3.02	0.43
14:l0:187:ASN:ND2	14:l0:188:TYR:CE1	2.86	0.43
14:l3:206:VAL:CG1	14:l3:208:TYR:CZ	3.01	0.43
1:a0:12:LEU:HD12	1:a0:101:CYS:SG	2.59	0.43
2:a1:162:ASN:HA	14:d2:434:ALA:O	2.18	0.43
3:a2:273:ALA:CA	14:d1:434:ALA:O	2.65	0.43
9:b3:175:TYR:CG	14:g9:321:ASN:HB3	2.53	0.43
10:b6:262:ALA:HB1	14:h5:321:ASN:HD21	1.70	0.43
12:c6:59:SER:OG	14:f5:169:GLN:OE1	2.30	0.43
14:d0:74:PHE:CE1	14:d0:202:MET:HG3	2.53	0.43
14:d2:188:TYR:CE1	14:d2:193:ALA:HB2	2.54	0.43
14:d2:260:LYS:HD3	14:d2:421:TYR:CZ	2.53	0.43
14:d3:187:ASN:ND2	14:d3:188:TYR:CE1	2.87	0.43
14:e0:11:TYR:HE1	14:e0:19:THR:OG1	2.00	0.43
14:f3:67:ILE:HG21	14:f3:208:TYR:CE2	2.54	0.43
14:f5:362:GLY:O	14:f5:363:ARG:NH2	2.52	0.43
14:h4:243:ALA:HB2	14:h4:386:CYS:O	2.18	0.43
14:h6:206:VAL:CB	14:h6:208:TYR:CE1	2.97	0.43
14:j6:243:ALA:HA	14:j6:386:CYS:O	2.19	0.43
14:j7:206:VAL:CB	14:j7:208:TYR:CE1	3.00	0.43
14:j9:337:VAL:O	14:j9:338:GLN:C	2.62	0.43
14:k6:175:LEU:HB3	14:k6:177:PHE:CE1	2.53	0.43
14:k8:305:THR:OG1	14:k8:306:TYR:N	2.51	0.43
10:b6:275:THR:O	14:h6:170:TYR:O	2.36	0.43
10:b6:286:TYR:HB3	14:k5:5:LEU:CD1	2.48	0.43
9:b7:164:ASN:OD1	14:d8:437:ASN:OD1	2.37	0.43
12:c8:87:ASP:OD1	12:c8:87:ASP:N	2.43	0.43
13:c9:75:PHE:CE2	9:l5:149:LEU:HD11	2.54	0.43
14:e4:318:ILE:O	14:e4:325:ARG:HB3	2.16	0.43
14:f0:386:CYS:SG	14:f0:408:ALA:HB3	2.58	0.43
14:f2:114:ARG:NH2	14:f2:117:ASP:CG	2.77	0.43
14:f3:238:THR:O	14:f3:239:ALA:C	2.57	0.43
14:f5:337:VAL:O	14:f5:338:GLN:C	2.60	0.43
14:f7:86:TYR:O	14:f7:87:TYR:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g3:114:ARG:CA	14:g3:114:ARG:NE	2.77	0.43
14:g8:96:VAL:HG13	14:g8:177:PHE:CD1	2.53	0.43
14:h8:188:TYR:CD2	14:h8:193:ALA:HA	2.53	0.43
14:i0:337:VAL:O	14:i0:338:GLN:C	2.60	0.43
14:j0:245:THR:OG1	14:j0:246:GLN:N	2.52	0.43
14:j3:75:VAL:HG22	14:j3:146:ARG:HE	1.84	0.43
14:j5:175:LEU:HD13	14:j5:177:PHE:HZ	1.84	0.43
14:j7:386:CYS:HB3	14:j7:406:ASN:HA	2.00	0.43
14:j8:86:TYR:O	14:j8:87:TYR:C	2.61	0.43
14:k8:337:VAL:O	14:k8:338:GLN:C	2.60	0.43
14:l0:337:VAL:O	14:l0:338:GLN:C	2.60	0.43
5:a5:55:PHE:CZ	10:b6:198:VAL:HG22	2.54	0.43
5:a5:203:PHE:HE2	13:c9:123:LEU:O	2.01	0.43
9:b0:148:ASN:OD1	10:b6:344:ASP:O	2.37	0.43
9:b1:154:PHE:CE1	14:d7:223:PRO:HB2	2.48	0.43
14:d0:290:THR:OG1	14:d0:291:ALA:N	2.50	0.43
14:d2:260:LYS:HE3	14:d2:261:TYR:HE2	1.84	0.43
14:d7:86:TYR:O	14:d7:87:TYR:C	2.61	0.43
14:e0:25:THR:OG1	14:e0:26:PHE:N	2.46	0.43
14:e5:41:SER:OG	14:k1:329:ARG:NH1	2.52	0.43
14:e8:175:LEU:CB	14:e8:177:PHE:CE1	3.02	0.43
14:e9:260:LYS:HD2	14:e9:421:TYR:CE2	2.54	0.43
14:f1:260:LYS:HD3	14:f1:360:PRO:O	2.18	0.43
14:f5:187:ASN:ND2	14:f5:188:TYR:CE2	2.87	0.43
14:f7:28:LYS:CD	14:l3:226:TYR:CE2	3.02	0.43
14:g0:329:ARG:NH2	14:g0:333:TYR:CE1	2.86	0.43
14:g3:209:ILE:CD1	14:j1:27:PHE:HE1	2.32	0.43
14:h1:245:THR:OG1	14:h1:246:GLN:N	2.52	0.43
14:h1:363:ARG:NE	14:h1:363:ARG:CA	2.82	0.43
14:h5:161:LEU:O	14:h5:162:ALA:C	2.61	0.43
14:h6:60:ILE:CD1	14:h6:173:VAL:HB	2.48	0.43
14:h9:290:THR:OG1	14:h9:291:ALA:N	2.50	0.43
14:i2:256:ASN:ND2	14:i2:257:HIS:HE2	2.17	0.43
14:j1:114:ARG:NH1	14:j1:118:ALA:HB2	2.33	0.43
14:j8:337:VAL:O	14:j8:338:GLN:C	2.61	0.43
14:k0:219:PHE:HE1	14:k0:226:TYR:OH	2.02	0.43
14:k1:386:CYS:SG	14:k1:409:THR:HG22	2.59	0.43
14:k5:265:ASN:ND2	14:k5:275:TYR:CE1	2.81	0.43
14:k6:96:VAL:CG2	14:k6:177:PHE:CD2	3.02	0.43
5:a5:62:THR:HG22	14:g3:425:ARG:CD	2.44	0.43
9:a9:164:ASN:OD1	14:i5:437:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c8:70:VAL:O	14:i2:103:GLN:NE2	2.52	0.43
12:c8:88:VAL:O	14:f4:9:VAL:HG11	2.19	0.43
12:c8:103:ASP:HB3	14:f2:170:TYR:CE1	2.53	0.43
12:c8:140:TYR:CE1	14:i0:213:THR:HG23	2.53	0.43
14:d0:400:THR:OG1	14:d0:401:GLU:N	2.45	0.43
14:d1:20:GLY:O	14:d1:21:ASN:C	2.60	0.43
14:d2:187:ASN:ND2	14:d2:188:TYR:CE2	2.87	0.43
14:d2:260:LYS:HE3	14:d2:261:TYR:CE2	2.54	0.43
14:d3:329:ARG:NH1	14:g1:41:SER:OG	2.52	0.43
14:e1:34:TYR:O	14:g9:19:THR:HG22	2.18	0.43
14:e3:188:TYR:CD2	14:e3:193:ALA:CA	3.01	0.43
14:f0:60:ILE:CD1	14:f0:165:LEU:CD2	2.92	0.43
14:f1:86:TYR:O	14:f1:87:TYR:C	2.62	0.43
14:f8:96:VAL:HG13	14:f8:177:PHE:CE1	2.54	0.43
14:g0:99:GLU:HG2	14:g0:104:ARG:HA	2.00	0.43
14:g2:321:ASN:CG	9:l5:175:TYR:CE1	2.97	0.43
14:g5:175:LEU:HB3	14:g5:177:PHE:CZ	2.53	0.43
14:g8:135:TRP:CD2	14:g8:147:PHE:HZ	2.37	0.43
14:g9:312:VAL:HG13	14:g9:411:LEU:HD12	2.01	0.43
14:h0:86:TYR:O	14:h0:87:TYR:C	2.62	0.43
14:h0:329:ARG:NH1	14:j8:41:SER:OG	2.52	0.43
14:h2:187:ASN:ND2	14:h2:188:TYR:HE1	2.17	0.43
14:i2:182:GLN:CB	14:i2:188:TYR:CD1	3.01	0.43
14:i2:256:ASN:HD21	14:i2:257:HIS:HE2	1.67	0.43
14:i5:40:GLU:OE1	14:i5:210:PHE:CZ	2.72	0.43
14:i5:330:LYS:O	14:i5:333:TYR:HB3	2.18	0.43
14:i7:260:LYS:HD3	14:i7:421:TYR:CE1	2.54	0.43
14:j2:363:ARG:NE	14:j2:363:ARG:CA	2.81	0.43
14:j8:103:GLN:CD	14:j8:433:LEU:HB2	2.43	0.43
14:k1:97:GLU:OE2	14:k1:99:GLU:OE2	2.37	0.43
14:k5:182:GLN:HB2	14:k5:188:TYR:CD1	2.53	0.43
14:k8:425:ARG:HH12	14:k8:434:ALA:CB	2.31	0.43
14:k9:260:LYS:HG2	14:k9:421:TYR:HE1	1.69	0.43
5:a5:124:GLU:OE1	10:b6:185:HIS:CD2	2.71	0.43
10:b6:202:LEU:HD21	14:g3:321:ASN:ND2	2.34	0.43
9:b7:175:TYR:CB	14:i9:63:ASN:CG	2.92	0.43
12:c6:90:THR:HG1	14:l2:9:VAL:CG2	2.32	0.43
14:d0:188:TYR:CE1	14:d0:193:ALA:HB2	2.54	0.43
14:d2:260:LYS:HB2	14:d2:421:TYR:CE1	2.54	0.43
14:d5:188:TYR:CE1	14:d5:193:ALA:HB2	2.54	0.43
14:d6:68:THR:OG1	14:d6:69:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e7:182:GLN:CB	14:e7:188:TYR:CD1	3.02	0.43
14:f0:11:TYR:HE2	14:f0:19:THR:OG1	2.01	0.43
14:f7:320:LEU:CD1	14:f7:374:ILE:HD11	2.39	0.43
14:f9:213:THR:HA	14:f9:216:ARG:NH2	2.34	0.43
14:h2:229:GLU:OE2	14:h2:260:LYS:NZ	2.50	0.43
14:h2:243:ALA:CB	14:h2:386:CYS:O	2.67	0.43
14:i3:86:TYR:O	14:i3:87:TYR:C	2.62	0.43
14:j7:60:ILE:CD1	14:j7:173:VAL:CG1	2.96	0.43
14:k3:308:GLU:CD	14:k3:311:ALA:CB	2.91	0.43
14:k5:60:ILE:CD1	14:k5:173:VAL:HB	2.49	0.43
14:l2:63:ASN:O	14:l2:210:PHE:CE2	2.71	0.43
3:a3:284:TYR:HE2	14:f9:15:ASP:CB	2.31	0.42
7:a7:110:LEU:HD12	7:a7:129:LEU:HD21	2.01	0.42
11:c2:93:ASN:O	14:e4:17:TYR:CB	2.66	0.42
11:c4:17:HIS:CE1	14:h9:431:GLY:HA2	2.44	0.42
12:c7:43:THR:O	12:c7:43:THR:OG1	2.35	0.42
14:d1:346:VAL:CG2	14:f9:131:ARG:NH1	2.65	0.42
14:d2:27:PHE:CE1	14:i8:209:ILE:HG12	2.46	0.42
14:d8:260:LYS:HB2	14:d8:421:TYR:CE2	2.54	0.42
14:e1:238:THR:O	14:e1:239:ALA:C	2.61	0.42
14:e5:27:PHE:CD2	14:k1:66:LEU:HD13	2.51	0.42
14:e6:243:ALA:HA	14:e6:386:CYS:C	2.44	0.42
14:e6:337:VAL:O	14:e6:338:GLN:C	2.60	0.42
14:f5:329:ARG:NH2	14:f5:333:TYR:CD2	2.87	0.42
14:f9:99:GLU:CD	14:f9:102:GLY:HA2	2.39	0.42
14:g5:182:GLN:HB3	14:g5:188:TYR:CD2	2.54	0.42
14:g7:337:VAL:O	14:g7:338:GLN:C	2.59	0.42
14:g8:145:LYS:HB3	14:g8:147:PHE:CZ	2.54	0.42
14:h3:241:PRO:HG2	14:h3:386:CYS:SG	2.58	0.42
14:h4:187:ASN:ND2	14:h4:188:TYR:CE2	2.86	0.42
14:h8:114:ARG:NH1	14:h8:118:ALA:HB2	2.34	0.42
14:i0:245:THR:OG1	14:i0:246:GLN:N	2.51	0.42
14:j0:100:ILE:CG1	14:j0:105:ILE:HD12	2.22	0.42
14:j3:290:THR:OG1	14:j3:291:ALA:N	2.48	0.42
14:k0:376:ASN:C	14:k0:376:ASN:OD1	2.62	0.42
14:k9:166:ILE:HD12	14:k9:219:PHE:HB3	1.95	0.42
5:a5:35:PRO:CG	14:j2:16:VAL:CG1	2.97	0.42
9:b1:175:TYR:CD2	14:j0:61:SER:HB2	2.53	0.42
10:b6:230:LEU:HD21	14:j2:375:ASP:HA	2.00	0.42
9:b7:164:ASN:HD21	14:d9:9:VAL:CG1	2.30	0.42
9:b8:194:SER:HB2	14:j0:436:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:c3:15:ASP:HA	14:h2:5:LEU:CD2	2.49	0.42
14:d8:260:LYS:HB2	14:d8:421:TYR:HE2	1.83	0.42
14:e2:309:GLN:OE1	14:h0:145:LYS:NZ	2.48	0.42
14:e3:245:THR:OG1	14:e3:246:GLN:N	2.52	0.42
14:e9:188:TYR:CE2	14:e9:193:ALA:HB2	2.54	0.42
14:e9:206:VAL:HG11	14:e9:208:TYR:CZ	2.54	0.42
14:e9:260:LYS:CG	14:e9:357:ALA:CB	2.93	0.42
14:f0:60:ILE:HD11	14:f0:165:LEU:CD2	2.47	0.42
14:f3:337:VAL:O	14:f3:338:GLN:C	2.62	0.42
14:f7:114:ARG:NE	14:f7:114:ARG:CA	2.77	0.42
14:f8:29:THR:OG1	14:f8:30:VAL:N	2.52	0.42
14:g2:320:LEU:HD13	14:g2:374:ILE:HD11	2.00	0.42
14:g8:188:TYR:CE2	14:g8:193:ALA:HB2	2.55	0.42
14:g8:305:THR:OG1	14:g8:306:TYR:N	2.52	0.42
14:h1:337:VAL:O	14:h1:338:GLN:C	2.61	0.42
14:h5:60:ILE:HD12	14:h5:165:LEU:CD1	2.48	0.42
14:h5:114:ARG:NH1	14:h5:118:ALA:HB2	2.34	0.42
14:i2:86:TYR:O	14:i2:87:TYR:C	2.62	0.42
14:i6:219:PHE:HA	14:i6:224:HIS:CE1	2.54	0.42
14:j3:86:TYR:O	14:j3:87:TYR:C	2.62	0.42
14:j4:188:TYR:CD1	14:j4:193:ALA:CA	2.95	0.42
14:k7:182:GLN:HB2	14:k7:188:TYR:CD1	2.54	0.42
2:a1:157:VAL:CB	3:a2:282:ILE:HG21	2.49	0.42
5:a5:176:ASN:ND2	14:g3:427:MET:C	2.77	0.42
9:a9:192:MET:CG	14:k5:103:GLN:HE22	2.31	0.42
9:b0:151:ALA:HA	14:f7:169:GLN:CD	2.44	0.42
9:b1:161:ILE:CD1	14:j3:16:VAL:HG11	2.47	0.42
10:b6:338:ASN:HD22	14:l2:62:ARG:CB	2.33	0.42
12:c6:149:LEU:HB3	14:k2:169:GLN:OE1	2.18	0.42
12:c7:57:GLY:CA	14:f4:62:ARG:NE	2.82	0.42
14:d6:243:ALA:HB2	14:d6:386:CYS:O	2.18	0.42
14:d8:376:ASN:C	14:d8:376:ASN:OD1	2.62	0.42
14:e3:337:VAL:O	14:e3:338:GLN:C	2.58	0.42
14:f1:67:ILE:CG2	14:f1:208:TYR:CE1	3.02	0.42
14:f8:161:LEU:O	14:f8:162:ALA:C	2.62	0.42
14:f8:219:PHE:HA	14:f8:224:HIS:NE2	2.34	0.42
14:g1:290:THR:OG1	14:g1:291:ALA:N	2.49	0.42
14:g3:10:ALA:HB1	14:j1:373:ARG:HB2	2.02	0.42
14:h0:211:LEU:O	14:h0:216:ARG:NH2	2.52	0.42
14:h1:166:ILE:CD1	14:h1:216:ARG:HG3	2.49	0.42
14:h8:211:LEU:HB2	14:h8:216:ARG:CG	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i1:145:LYS:HB3	14:i1:147:PHE:CE1	2.54	0.42
14:i5:63:ASN:O	14:i5:210:PHE:CE2	2.72	0.42
14:j0:171:HIS:NE2	14:j0:430:MET:CE	2.82	0.42
14:j7:170:TYR:HD2	14:j7:429:GLY:HA3	1.84	0.42
14:k5:86:TYR:O	14:k5:87:TYR:C	2.62	0.42
14:k5:114:ARG:CG	14:k5:275:TYR:OH	2.68	0.42
14:k5:114:ARG:NH1	14:k5:118:ALA:HB2	2.34	0.42
14:k5:266:PHE:CE1	14:k5:383:TYR:HE1	2.38	0.42
14:k9:86:TYR:O	14:k9:87:TYR:C	2.62	0.42
14:l1:386:CYS:O	14:l1:386:CYS:SG	2.77	0.42
2:a1:147:ASN:N	2:a1:147:ASN:HD22	2.15	0.42
5:a5:62:THR:HG22	14:g3:425:ARG:HD2	2.01	0.42
8:a8:116:GLU:OE2	8:a8:118:TYR:CE1	2.64	0.42
9:b4:170:LEU:CD2	14:d9:373:ARG:O	2.68	0.42
9:b4:192:MET:N	14:g8:433:LEU:O	2.45	0.42
10:b6:221:LEU:HD22	14:g4:9:VAL:HG12	2.01	0.42
12:c6:75:THR:HB	14:l2:14:GLN:OE1	2.18	0.42
14:d0:27:PHE:CE1	14:i6:209:ILE:CG1	3.00	0.42
14:d4:212:ASP:C	14:d4:216:ARG:NH1	2.78	0.42
14:f5:86:TYR:O	14:f5:87:TYR:C	2.62	0.42
14:f6:24:ILE:HG21	14:l2:32:ARG:CD	2.49	0.42
14:f8:60:ILE:HD13	14:f8:165:LEU:HD21	2.00	0.42
14:f8:112:TRP:O	14:f8:113:PHE:C	2.62	0.42
14:f8:206:VAL:HG11	14:f8:208:TYR:CE2	2.54	0.42
14:h9:175:LEU:HB2	14:h9:177:PHE:CE1	2.55	0.42
14:i1:135:TRP:CE2	14:i1:147:PHE:CZ	3.02	0.42
14:j4:386:CYS:SG	14:j4:386:CYS:O	2.77	0.42
14:j5:337:VAL:O	14:j5:338:GLN:C	2.60	0.42
14:k3:308:GLU:OE1	14:k3:311:ALA:HB2	2.19	0.42
14:k8:86:TYR:O	14:k8:87:TYR:C	2.61	0.42
14:l2:86:TYR:O	14:l2:87:TYR:C	2.61	0.42
3:a3:286:LEU:HD23	14:f9:22:PRO:CA	2.49	0.42
5:a5:47:LEU:O	14:d6:430:MET:HE1	2.18	0.42
10:b6:238:VAL:HG21	14:j2:101:GLY:O	2.20	0.42
9:c1:193:MET:HE2	14:e8:435:TYR:HE2	1.74	0.42
11:c5:23:LEU:HD13	11:c5:23:LEU:HA	1.90	0.42
12:c6:51:TRP:CH2	14:f6:210:PHE:HD2	2.37	0.42
12:c6:145:ILE:HD11	14:k2:170:TYR:CG	2.53	0.42
14:d2:309:GLN:NE2	14:d2:403:VAL:O	2.52	0.42
14:d7:338:GLN:HB2	14:d7:339:PRO:HD3	2.02	0.42
14:e0:184:GLN:HG2	14:e0:300:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e3:330:LYS:HG3	14:h1:146:ARG:HE	1.81	0.42
14:e5:221:GLN:O	14:e5:221:GLN:CG	2.67	0.42
14:f2:318:ILE:O	14:f2:325:ARG:HB3	2.20	0.42
14:f4:325:ARG:HG3	14:f4:326:PHE:HD1	1.83	0.42
14:f5:33:ARG:CD	14:i3:20:GLY:O	2.61	0.42
14:f8:86:TYR:O	14:f8:87:TYR:C	2.61	0.42
14:g3:340:TYR:CD1	14:j1:132:MET:CE	3.02	0.42
14:g6:337:VAL:O	14:g6:338:GLN:C	2.62	0.42
14:h1:4:GLY:HA2	14:j9:325:ARG:NH1	2.35	0.42
14:h1:229:GLU:OE2	14:h1:363:ARG:NH2	2.53	0.42
14:h2:145:LYS:HB3	14:h2:147:PHE:CZ	2.55	0.42
14:h8:86:TYR:OH	14:h8:114:ARG:NH2	2.51	0.42
14:i2:337:VAL:O	14:i2:338:GLN:C	2.61	0.42
14:j0:67:ILE:CG2	14:j0:208:TYR:CE2	3.03	0.42
14:k7:86:TYR:O	14:k7:87:TYR:C	2.62	0.42
14:k8:161:LEU:O	14:k8:162:ALA:C	2.63	0.42
14:k8:229:GLU:OE2	14:k8:260:LYS:NZ	2.44	0.42
14:l2:161:LEU:O	14:l2:162:ALA:C	2.60	0.42
2:a1:166:GLN:HG3	14:d2:103:GLN:HB2	2.01	0.42
3:a2:255:LEU:HG	3:a2:255:LEU:O	2.19	0.42
3:a3:247:VAL:HG21	3:a3:272:THR:HG21	2.01	0.42
5:a5:35:PRO:CG	14:j2:16:VAL:HG11	2.40	0.42
9:b0:192:MET:HE3	9:b0:192:MET:HB3	1.79	0.42
10:b6:162:THR:HG23	10:b6:164:ASP:H	1.85	0.42
10:b6:306:ILE:HG21	14:k6:166:ILE:HA	2.01	0.42
10:b6:359:LEU:HD12	14:l2:372:SER:O	2.18	0.42
9:b7:175:TYR:N	14:i9:62:ARG:O	2.51	0.42
13:c9:150:ARG:NH2	14:i7:216:ARG:CD	2.82	0.42
14:d9:260:LYS:HD3	14:d9:421:TYR:CZ	2.54	0.42
14:e0:66:LEU:HD13	14:g8:27:PHE:HB3	2.02	0.42
14:e1:86:TYR:O	14:e1:87:TYR:C	2.62	0.42
14:e1:340:TYR:OH	14:g9:150:PRO:CG	2.65	0.42
14:e3:35:THR:HG21	14:e3:215:GLU:HB2	2.01	0.42
14:e5:245:THR:OG1	14:e5:246:GLN:N	2.53	0.42
14:e6:30:VAL:O	14:e6:30:VAL:CG1	2.67	0.42
14:f7:90:GLU:OE2	14:f7:129:TYR:CE2	2.73	0.42
14:g2:93:LEU:CD1	14:g2:177:PHE:HB3	2.49	0.42
14:g4:206:VAL:CG1	14:g4:208:TYR:CZ	3.02	0.42
14:g6:96:VAL:HG22	14:g6:177:PHE:CD2	2.53	0.42
14:i1:145:LYS:HB3	14:i1:147:PHE:CZ	2.54	0.42
14:i6:60:ILE:CD1	14:i6:173:VAL:CG1	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:j4:114:ARG:NH1	14:j4:118:ALA:HB2	2.34	0.42
14:j7:242:SER:OG	14:j7:243:ALA:N	2.53	0.42
14:j8:114:ARG:CG	14:j8:275:TYR:OH	2.68	0.42
14:k2:112:TRP:O	14:k2:113:PHE:C	2.62	0.42
14:k7:182:GLN:CB	14:k7:188:TYR:CD1	3.02	0.42
14:k9:96:VAL:HG22	14:k9:177:PHE:CD1	2.54	0.42
3:a3:234:ARG:NH1	14:i7:28:LYS:CG	2.79	0.42
4:a4:107:GLU:O	4:a4:136:VAL:HB	2.20	0.42
10:b6:187:TYR:HD2	14:g3:170:TYR:HB3	1.84	0.42
10:b6:193:THR:HG21	14:g3:425:ARG:HB3	2.02	0.42
10:b6:309:ALA:HB3	14:k6:170:TYR:HA	2.01	0.42
9:c0:170:LEU:HB2	14:g4:375:ASP:OD1	2.20	0.42
9:c0:177:LEU:HG	14:k4:323:GLN:NE2	2.27	0.42
11:c4:23:LEU:HA	11:c4:23:LEU:HD13	1.74	0.42
12:c6:136:SER:HB2	14:k2:434:ALA:C	2.45	0.42
14:d4:241:PRO:HG2	14:d4:386:CYS:SG	2.59	0.42
14:e0:211:LEU:O	14:e0:216:ARG:NH2	2.52	0.42
14:e3:243:ALA:HB2	14:e3:386:CYS:O	2.19	0.42
14:e6:90:GLU:OE2	14:e6:129:TYR:HE2	2.02	0.42
14:f0:338:GLN:HB2	14:f0:339:PRO:HD3	2.01	0.42
14:f4:260:LYS:HE2	14:f4:421:TYR:HH	1.79	0.42
14:f7:329:ARG:NH1	14:i5:41:SER:OG	2.52	0.42
14:g3:86:TYR:O	14:g3:87:TYR:C	2.63	0.42
14:h2:245:THR:OG1	14:h2:246:GLN:N	2.53	0.42
14:i1:226:TYR:CE2	14:k9:28:LYS:HD2	2.55	0.42
14:i3:4:GLY:HA2	14:l1:325:ARG:NH1	2.34	0.42
14:i5:290:THR:OG1	14:i5:291:ALA:N	2.48	0.42
14:j0:67:ILE:HG21	14:j0:208:TYR:CE2	2.55	0.42
14:j0:329:ARG:NH1	14:j0:333:TYR:CZ	2.88	0.42
14:k2:17:TYR:CD2	14:k2:18:LEU:HG	2.55	0.42
14:l3:290:THR:OG1	14:l3:291:ALA:N	2.49	0.42
3:a3:278:GLU:CG	14:i7:227:LEU:HD22	2.50	0.42
9:b0:192:MET:CG	14:l3:103:GLN:NE2	2.81	0.42
10:b6:193:THR:CG2	14:g3:425:ARG:HB3	2.50	0.42
10:b6:324:GLY:C	14:f7:375:ASP:HA	2.44	0.42
12:c6:123:LEU:HD23	12:c6:123:LEU:HA	1.90	0.42
12:c8:131:GLN:OE1	14:f2:373:ARG:NH2	2.53	0.42
14:d0:224:HIS:HB3	14:d0:226:TYR:CE1	2.54	0.42
14:d1:260:LYS:HE3	14:d1:261:TYR:CE1	2.55	0.42
14:d2:242:SER:OG	14:d2:243:ALA:N	2.53	0.42
14:d8:27:PHE:HZ	14:j4:209:ILE:HG21	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f1:330:LYS:O	14:f1:333:TYR:HB3	2.19	0.42
14:f5:305:THR:OG1	14:f5:306:TYR:N	2.52	0.42
14:g3:309:GLN:OE1	14:j1:145:LYS:NZ	2.51	0.42
14:h9:114:ARG:NH1	14:h9:118:ALA:HB2	2.34	0.42
14:i0:96:VAL:HG13	14:i0:177:PHE:CE1	2.55	0.42
14:i6:114:ARG:NH1	14:i6:118:ALA:HB2	2.35	0.42
14:i7:86:TYR:OH	14:i7:114:ARG:NH2	2.53	0.42
14:j3:386:CYS:SG	14:j3:409:THR:HG22	2.59	0.42
14:j5:226:TYR:CD1	14:j5:426:ILE:CD1	3.03	0.42
14:k3:363:ARG:NE	14:k3:363:ARG:CA	2.79	0.42
14:l2:211:LEU:O	14:l2:216:ARG:NH2	2.52	0.42
4:a4:144:TRP:CB	4:a4:154:TRP:NE1	2.83	0.42
9:b8:204:PRO:O	9:b8:205:LEU:HB3	2.20	0.42
9:c1:191:TRP:CD1	14:e8:432:GLY:C	2.97	0.42
12:c8:127:ARG:O	14:f2:375:ASP:HB3	2.20	0.42
14:d5:170:TYR:CZ	14:i7:62:ARG:HD2	2.55	0.42
14:d7:242:SER:OG	14:d7:243:ALA:N	2.52	0.42
14:e0:260:LYS:HD3	14:e0:421:TYR:CE1	2.55	0.42
14:e3:188:TYR:HE2	14:e3:193:ALA:HB2	1.82	0.42
14:e4:187:ASN:ND2	14:e4:188:TYR:CE2	2.88	0.42
14:e6:40:GLU:CB	14:e6:210:PHE:HE1	2.33	0.42
14:f1:308:GLU:OE2	14:h9:145:LYS:NZ	2.52	0.42
14:f8:337:VAL:O	14:f8:338:GLN:C	2.61	0.42
14:f9:175:LEU:HB2	14:f9:177:PHE:CE1	2.55	0.42
14:g1:60:ILE:HD11	14:g1:173:VAL:CB	2.48	0.42
14:g1:386:CYS:SG	14:g1:409:THR:HG22	2.60	0.42
14:g2:182:GLN:HB2	14:g2:188:TYR:CD1	2.54	0.42
14:g8:260:LYS:HB2	14:g8:421:TYR:HE1	1.84	0.42
14:h0:99:GLU:OE2	14:h0:102:GLY:C	2.63	0.42
14:h6:60:ILE:O	14:h6:60:ILE:HG13	2.19	0.42
14:h6:224:HIS:O	14:h6:425:ARG:HD2	2.20	0.42
14:h9:211:LEU:HD13	14:h9:215:GLU:HG2	2.02	0.42
14:i3:161:LEU:O	14:i3:162:ALA:C	2.63	0.42
14:i3:241:PRO:HG2	14:i3:386:CYS:SG	2.59	0.42
14:j5:114:ARG:NH1	14:j5:118:ALA:HB2	2.35	0.42
14:k6:188:TYR:HE1	14:k6:193:ALA:HB2	1.82	0.42
1:a0:9:CYS:HB3	1:a0:101:CYS:SG	2.60	0.42
5:a5:54:THR:HB	10:b6:207:GLU:O	2.18	0.42
5:a5:61:ASP:OD1	5:a5:61:ASP:N	2.52	0.42
11:c3:10:SER:CB	14:k9:170:TYR:HB2	2.48	0.42
12:c8:119:PHE:CD2	14:f2:436:ALA:HB2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d2:337:VAL:O	14:d2:338:GLN:C	2.59	0.42
14:d4:243:ALA:HB2	14:d4:386:CYS:O	2.19	0.42
14:d6:175:LEU:CB	14:d6:177:PHE:CZ	3.02	0.42
14:f0:211:LEU:HD13	14:f0:215:GLU:HG2	2.02	0.42
14:f2:226:TYR:CE1	14:i0:28:LYS:CD	3.03	0.42
14:f8:206:VAL:CG1	14:f8:208:TYR:CE1	3.03	0.42
14:g2:321:ASN:HA	14:g2:376:ASN:HB2	2.02	0.42
14:g5:86:TYR:O	14:g5:87:TYR:C	2.63	0.42
14:g6:40:GLU:HB3	14:g6:210:PHE:HE1	1.85	0.42
14:g6:99:GLU:OE2	14:g6:102:GLY:O	2.38	0.42
14:h1:114:ARG:NH2	14:h1:117:ASP:CG	2.78	0.42
14:h2:182:GLN:CB	14:h2:188:TYR:CD1	3.02	0.42
14:h6:210:PHE:CD1	14:h6:210:PHE:N	2.88	0.42
14:i0:161:LEU:O	14:i0:162:ALA:C	2.60	0.42
14:i1:260:LYS:HG2	14:i1:421:TYR:CE1	2.36	0.42
14:i2:114:ARG:NH1	14:i2:118:ALA:HB2	2.35	0.42
14:i3:435:TYR:O	14:i3:436:ALA:C	2.63	0.42
14:i7:330:LYS:O	14:i7:333:TYR:HB3	2.20	0.42
14:j6:86:TYR:O	14:j6:87:TYR:C	2.63	0.42
14:j8:182:GLN:CB	14:j8:188:TYR:CD2	3.03	0.42
14:j9:161:LEU:O	14:j9:162:ALA:C	2.63	0.42
14:k2:14:GLN:O	14:k2:17:TYR:HE1	1.93	0.42
14:k5:425:ARG:HB3	14:k5:427:MET:CE	2.47	0.42
14:l0:112:TRP:O	14:l0:113:PHE:C	2.62	0.42
2:a1:169:THR:O	14:i6:220:ALA:CB	2.66	0.41
10:b6:252:GLN:HG2	14:j3:103:GLN:HE22	1.86	0.41
10:b6:317:ARG:HH21	14:i5:210:PHE:HB3	1.84	0.41
11:c3:8:THR:O	14:e4:62:ARG:NH1	2.52	0.41
12:c6:115:LEU:HD23	14:f0:431:GLY:CA	2.50	0.41
14:d1:260:LYS:HD3	14:d1:421:TYR:CE1	2.55	0.41
14:d9:376:ASN:OD1	14:d9:376:ASN:C	2.63	0.41
14:e1:325:ARG:NH2	14:g9:39:ILE:O	2.53	0.41
14:e2:37:PHE:CD2	14:h0:27:PHE:HZ	2.38	0.41
14:e3:188:TYR:CE2	14:e3:193:ALA:CB	3.01	0.41
14:e6:161:LEU:O	14:e6:162:ALA:C	2.63	0.41
14:e7:206:VAL:HG11	14:e7:208:TYR:CE2	2.54	0.41
14:f6:435:TYR:CG	14:l2:14:GLN:HG2	2.54	0.41
14:f9:241:PRO:HG2	14:f9:386:CYS:SG	2.60	0.41
14:g1:243:ALA:HA	14:g1:386:CYS:O	2.20	0.41
14:g4:114:ARG:CG	14:g4:275:TYR:OH	2.68	0.41
14:g4:161:LEU:O	14:g4:162:ALA:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g9:245:THR:OG1	14:g9:246:GLN:N	2.53	0.41
14:h3:242:SER:OG	14:h3:243:ALA:N	2.53	0.41
14:i1:4:GLY:CA	14:k9:325:ARG:NH1	2.74	0.41
14:i1:16:VAL:HG23	14:i1:17:TYR:CD2	2.55	0.41
14:i6:60:ILE:HD11	14:i6:173:VAL:HG12	2.02	0.41
14:j0:433:LEU:CD2	14:j0:433:LEU:H	2.33	0.41
14:j6:425:ARG:CZ	14:j6:434:ALA:HA	2.49	0.41
14:j7:206:VAL:CG1	14:j7:208:TYR:CZ	3.03	0.41
14:k1:86:TYR:O	14:k1:87:TYR:C	2.62	0.41
14:k4:188:TYR:HE1	14:k4:193:ALA:HB2	1.83	0.41
9:b8:186:ALA:HB3	14:g6:428:SER:HG	1.83	0.41
12:c7:69:VAL:HG21	14:i3:430:MET:SD	2.60	0.41
14:d5:17:TYR:OH	14:g3:425:ARG:NH2	2.53	0.41
14:e0:363:ARG:NE	14:e0:363:ARG:CA	2.83	0.41
14:e1:37:PHE:HA	14:g9:8:LEU:HD21	2.02	0.41
14:e3:329:ARG:NH2	14:e3:333:TYR:CD1	2.88	0.41
14:e9:182:GLN:CB	14:e9:188:TYR:CD1	3.03	0.41
14:f1:4:GLY:HA2	14:h9:325:ARG:NH1	2.35	0.41
14:f2:114:ARG:HH12	14:f2:118:ALA:HB2	1.84	0.41
14:f7:187:ASN:ND2	14:f7:188:TYR:CE2	2.88	0.41
14:g1:86:TYR:O	14:g1:87:TYR:C	2.63	0.41
14:g1:96:VAL:HG13	14:g1:177:PHE:CE1	2.55	0.41
14:h0:33:ARG:CD	14:j8:20:GLY:O	2.64	0.41
14:h3:337:VAL:O	14:h3:338:GLN:C	2.61	0.41
14:i7:96:VAL:HG22	14:i7:177:PHE:HD2	1.85	0.41
14:i8:86:TYR:O	14:i8:87:TYR:C	2.63	0.41
14:j1:329:ARG:CZ	14:j1:333:TYR:CD1	3.03	0.41
14:j5:211:LEU:CB	14:j5:216:ARG:HG3	2.50	0.41
14:j7:86:TYR:O	14:j7:87:TYR:C	2.63	0.41
14:k1:99:GLU:OE1	14:k1:176:TYR:HE1	1.99	0.41
14:k6:171:HIS:CE1	14:k6:431:GLY:H	2.38	0.41
14:l2:96:VAL:HG21	14:l2:177:PHE:HE1	1.80	0.41
8:a8:56:THR:O	8:a8:57:PRO:C	2.61	0.41
9:b0:186:ALA:O	9:b0:188:VAL:HG12	2.19	0.41
9:b2:165:THR:HB	14:j6:14:GLN:OE1	2.20	0.41
12:c6:41:GLN:HA	14:f5:170:TYR:OH	2.20	0.41
14:d5:182:GLN:HB3	14:d5:188:TYR:CD2	2.54	0.41
14:e0:376:ASN:C	14:e0:376:ASN:OD1	2.63	0.41
14:e1:206:VAL:CG1	14:e1:208:TYR:CZ	3.03	0.41
14:e3:112:TRP:O	14:e3:113:PHE:C	2.61	0.41
14:e4:66:LEU:HD13	14:h2:27:PHE:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:f0:240:THR:HA	14:f0:241:PRO:HD3	1.93	0.41
14:f1:161:LEU:O	14:f1:162:ALA:C	2.64	0.41
14:f7:171:HIS:CE1	14:f7:431:GLY:H	2.38	0.41
14:g0:86:TYR:O	14:g0:87:TYR:C	2.63	0.41
14:g9:86:TYR:O	14:g9:87:TYR:C	2.63	0.41
14:h3:187:ASN:ND2	14:h3:188:TYR:CE2	2.88	0.41
14:h9:266:PHE:HE2	14:h9:383:TYR:OH	2.03	0.41
14:i0:17:TYR:HE2	14:k8:435:TYR:OH	2.03	0.41
14:i5:63:ASN:O	14:i5:210:PHE:HE2	2.03	0.41
14:i5:252:ARG:CB	14:k5:252:ARG:NH1	2.83	0.41
14:i7:241:PRO:HG2	14:i7:386:CYS:SG	2.59	0.41
14:j5:226:TYR:HE1	14:j5:426:ILE:HD13	1.82	0.41
14:j7:60:ILE:CG1	14:j7:173:VAL:HB	2.50	0.41
14:j8:101:GLY:CA	14:j8:171:HIS:CD2	3.03	0.41
14:j8:182:GLN:HB2	14:j8:188:TYR:CD2	2.55	0.41
14:k0:337:VAL:O	14:k0:338:GLN:C	2.63	0.41
14:k1:187:ASN:ND2	14:k1:188:TYR:CE1	2.89	0.41
14:k4:188:TYR:CD1	14:k4:193:ALA:CA	3.00	0.41
14:k6:135:TRP:CE2	14:k6:147:PHE:HZ	2.38	0.41
14:k6:265:ASN:CB	14:k6:275:TYR:CD1	3.03	0.41
14:k8:241:PRO:HG2	14:k8:386:CYS:SG	2.60	0.41
14:k8:330:LYS:O	14:k8:333:TYR:HB3	2.20	0.41
14:l3:206:VAL:HG11	14:l3:208:TYR:CZ	2.55	0.41
14:l3:321:ASN:N	14:l3:376:ASN:O	2.53	0.41
15:l4:86:ASN:O	15:l4:87:ASN:C	2.63	0.41
2:a1:158:TYR:OH	3:a2:231:LEU:HD11	2.20	0.41
3:a2:280:ALA:O	14:d1:430:MET:HE1	2.19	0.41
3:a3:218:PRO:HB2	14:d1:214:GLN:HE21	1.85	0.41
10:b6:267:TYR:HB3	14:h6:434:ALA:HA	2.02	0.41
11:c3:30:ILE:HA	11:c3:38:LYS:HD3	2.01	0.41
11:c3:50:LEU:HD11	14:i1:17:TYR:CZ	2.55	0.41
12:c6:62:ALA:O	14:f6:430:MET:HE1	2.21	0.41
14:e5:112:TRP:O	14:e5:113:PHE:C	2.63	0.41
14:e6:90:GLU:OE2	14:e6:129:TYR:CE2	2.73	0.41
14:g0:25:THR:OG1	14:g0:26:PHE:N	2.53	0.41
14:g7:182:GLN:HB3	14:g7:188:TYR:CD1	2.55	0.41
14:g8:337:VAL:O	14:g8:338:GLN:C	2.60	0.41
14:h1:243:ALA:CB	14:h1:386:CYS:O	2.68	0.41
14:h5:330:LYS:O	14:h5:333:TYR:HB3	2.20	0.41
14:i1:242:SER:OG	14:i1:243:ALA:N	2.53	0.41
14:i5:305:THR:OG1	14:i5:306:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:i7:188:TYR:CE1	14:i7:193:ALA:HB2	2.56	0.41
14:i9:260:LYS:CD	14:i9:357:ALA:CB	2.96	0.41
14:j6:188:TYR:HE2	14:j6:193:ALA:HB2	1.84	0.41
10:b6:239:PRO:CG	14:j3:64:GLY:O	2.68	0.41
10:b6:303:TYR:CE2	14:f0:5:LEU:HD22	2.55	0.41
9:c0:165:THR:HG22	14:k4:435:TYR:CE1	2.54	0.41
12:c6:75:THR:CG2	14:f6:372:SER:HB3	2.51	0.41
12:c8:96:SER:HB2	14:l0:166:ILE:HA	2.03	0.41
14:d0:86:TYR:O	14:d0:87:TYR:C	2.62	0.41
14:d8:260:LYS:HE3	14:d8:261:TYR:HE2	1.85	0.41
14:d9:223:PRO:CG	14:d9:427:MET:CE	2.82	0.41
14:e0:226:TYR:CE2	14:e0:426:ILE:HD13	2.55	0.41
14:e1:260:LYS:HZ3	14:e1:360:PRO:HA	1.84	0.41
14:e4:33:ARG:HD2	14:h2:20:GLY:O	2.21	0.41
14:e9:386:CYS:O	14:e9:386:CYS:SG	2.78	0.41
14:f0:245:THR:OG1	14:f0:246:GLN:N	2.53	0.41
14:f5:99:GLU:OE2	14:f5:102:GLY:C	2.63	0.41
14:f5:175:LEU:HD13	14:f5:177:PHE:HZ	1.85	0.41
14:g1:135:TRP:CD2	14:g1:147:PHE:HZ	2.38	0.41
14:g1:306:TYR:CE2	14:g1:346:VAL:CG2	2.99	0.41
14:g7:242:SER:OG	14:g7:243:ALA:N	2.53	0.41
14:h0:114:ARG:NH1	14:h0:118:ALA:HB2	2.36	0.41
14:h1:112:TRP:O	14:h1:113:PHE:C	2.64	0.41
14:h2:75:VAL:HG22	14:h2:146:ARG:HE	1.84	0.41
14:h2:86:TYR:O	14:h2:87:TYR:C	2.63	0.41
14:h3:260:LYS:HE2	14:h3:419:LYS:HD2	2.01	0.41
14:h8:211:LEU:CD2	14:h8:215:GLU:OE2	2.67	0.41
14:j1:314:ASP:OD1	14:j1:330:LYS:NZ	2.38	0.41
14:l0:40:GLU:CB	14:l0:210:PHE:HE1	2.32	0.41
3:a3:264:LEU:O	14:i7:218:ARG:CD	2.57	0.41
8:a8:117:LYS:O	8:a8:118:TYR:C	2.62	0.41
9:b8:170:LEU:O	14:g1:375:ASP:OD1	2.38	0.41
9:c1:197:ASP:O	9:c1:199:ASN:N	2.54	0.41
11:c5:46:LEU:CB	14:f0:21:ASN:CB	2.94	0.41
12:c6:112:SER:HA	14:f0:430:MET:HE1	2.02	0.41
12:c8:136:SER:HB3	14:k0:434:ALA:C	2.43	0.41
14:d3:363:ARG:NE	14:d3:363:ARG:CA	2.82	0.41
14:d5:242:SER:OG	14:d5:243:ALA:N	2.53	0.41
14:e0:260:LYS:HE3	14:e0:261:TYR:CE2	2.55	0.41
14:e6:260:LYS:HE3	14:e6:261:TYR:CE2	2.56	0.41
14:f7:90:GLU:OE2	14:f7:129:TYR:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g4:17:TYR:HE2	14:j2:435:TYR:HE2	1.68	0.41
14:h2:337:VAL:O	14:h2:338:GLN:C	2.60	0.41
14:h3:260:LYS:HD3	14:h3:421:TYR:CE1	2.56	0.41
14:i6:96:VAL:HG22	14:i6:177:PHE:HD1	1.85	0.41
14:j8:99:GLU:OE2	14:j8:102:GLY:C	2.63	0.41
14:k0:305:THR:OG1	14:k0:306:TYR:N	2.52	0.41
14:k4:337:VAL:O	14:k4:338:GLN:C	2.60	0.41
14:l1:187:ASN:ND2	14:l1:188:TYR:CE2	2.88	0.41
14:l2:337:VAL:O	14:l2:338:GLN:C	2.60	0.41
14:l3:114:ARG:NH1	14:l3:118:ALA:HB2	2.35	0.41
9:b1:154:PHE:CD1	14:d7:225:GLU:CG	3.04	0.41
9:c0:192:MET:SD	14:g4:436:ALA:CB	3.08	0.41
11:c4:26:LEU:HD13	14:h9:373:ARG:CD	2.50	0.41
14:d7:329:ARG:NH2	14:d7:333:TYR:CD1	2.89	0.41
14:e0:11:TYR:CE1	14:e0:19:THR:OG1	2.74	0.41
14:e1:260:LYS:HE2	14:e1:360:PRO:CA	2.46	0.41
14:e4:66:LEU:CD1	14:h2:27:PHE:HB3	2.50	0.41
14:e6:28:LYS:HD3	14:k2:226:TYR:CZ	2.55	0.41
14:g1:99:GLU:OE2	14:g1:102:GLY:C	2.64	0.41
14:g1:243:ALA:HB2	14:g1:386:CYS:O	2.20	0.41
14:g9:238:THR:O	14:g9:239:ALA:C	2.60	0.41
14:h0:305:THR:OG1	14:h0:306:TYR:N	2.53	0.41
14:h2:68:THR:OG1	14:h2:69:ASP:N	2.53	0.41
14:h8:238:THR:O	14:h8:239:ALA:C	2.61	0.41
14:i7:96:VAL:HG22	14:i7:177:PHE:CD2	2.56	0.41
14:i8:22:PRO:O	14:i8:24:ILE:N	2.54	0.41
14:i9:242:SER:OG	14:i9:243:ALA:N	2.53	0.41
14:j0:427:MET:HE2	14:j0:427:MET:HB3	1.83	0.41
14:j2:376:ASN:OD1	14:j2:376:ASN:C	2.64	0.41
14:k3:308:GLU:CD	14:k3:311:ALA:HB3	2.46	0.41
14:k4:305:THR:OG1	14:k4:306:TYR:N	2.53	0.41
14:k5:161:LEU:O	14:k5:162:ALA:C	2.61	0.41
14:k5:182:GLN:CB	14:k5:188:TYR:CD1	3.04	0.41
14:l2:29:THR:HG23	14:l2:31:TYR:CE2	2.56	0.41
2:a1:151:PHE:HA	3:a2:203:ARG:O	2.20	0.41
4:a4:211:CYS:O	4:a4:212:ASP:C	2.63	0.41
6:a6:167:GLY:O	6:a6:168:GLY:C	2.64	0.41
9:b1:201:TYR:O	14:j3:11:TYR:CB	2.51	0.41
9:b7:154:PHE:CA	14:d8:430:MET:CE	2.98	0.41
11:c5:20:GLU:HA	14:h8:436:ALA:HB3	2.02	0.41
12:c7:166:LEU:HD12	14:h3:372:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:d6:96:VAL:HG22	14:d6:177:PHE:CD1	2.54	0.41
14:d9:337:VAL:O	14:d9:338:GLN:C	2.62	0.41
14:e2:260:LYS:CE	14:e2:360:PRO:O	2.69	0.41
14:e6:325:ARG:NH1	14:k2:4:GLY:HA2	2.36	0.41
14:f3:338:GLN:HB2	14:f3:339:PRO:HD3	2.03	0.41
14:f8:245:THR:OG1	14:f8:246:GLN:N	2.54	0.41
14:g2:312:VAL:HG13	14:g2:411:LEU:HD12	2.03	0.41
14:g4:206:VAL:HG11	14:g4:208:TYR:CZ	2.55	0.41
14:g5:175:LEU:HD13	14:g5:177:PHE:CZ	2.52	0.41
14:g5:242:SER:OG	14:g5:243:ALA:N	2.54	0.41
14:g7:226:TYR:CD1	14:g7:426:ILE:HD13	2.56	0.41
14:h3:86:TYR:O	14:h3:87:TYR:C	2.63	0.41
14:h6:11:TYR:CD1	14:h6:15:ASP:CB	3.04	0.41
14:h6:175:LEU:HD13	14:h6:177:PHE:HZ	1.86	0.41
14:h6:376:ASN:OD1	14:h6:376:ASN:C	2.64	0.41
14:i0:209:ILE:CD1	14:k8:27:PHE:HE1	2.33	0.41
14:i8:5:LEU:HD23	14:i8:8:LEU:HD23	2.03	0.41
14:j4:226:TYR:HD2	14:j4:426:ILE:CD1	2.31	0.41
14:j8:423:VAL:O	14:j8:434:ALA:CB	2.68	0.41
14:k8:224:HIS:HB3	14:k8:226:TYR:CE1	2.56	0.41
14:k9:96:VAL:CG1	14:k9:177:PHE:CE1	3.04	0.41
14:l3:329:ARG:NH1	14:l3:333:TYR:HE1	2.09	0.41
2:a1:111:ASN:OD1	14:d2:428:SER:HA	2.20	0.41
2:a1:153:ASN:CG	2:a1:153:ASN:O	2.63	0.41
3:a3:276:SER:OG	14:f9:18:LEU:HD13	2.21	0.41
5:a5:54:THR:HA	10:b6:207:GLU:O	2.20	0.41
9:b3:161:ILE:O	14:g9:436:ALA:HA	2.20	0.41
9:b3:161:ILE:HG12	14:h0:5:LEU:CB	2.51	0.41
9:b4:192:MET:CG	14:g8:103:GLN:NE2	2.83	0.41
10:b6:317:ARG:HE	14:l3:5:LEU:HD13	1.86	0.41
9:b8:170:LEU:HD12	14:j0:375:ASP:OD2	2.21	0.41
9:c1:192:MET:HA	14:e8:436:ALA:N	2.35	0.41
11:c2:42:PRO:HG2	14:f2:11:TYR:HE2	1.85	0.41
13:c9:42:HIS:O	13:c9:42:HIS:CG	2.70	0.41
14:d0:175:LEU:CD1	14:d0:177:PHE:CZ	3.00	0.41
14:d4:86:TYR:O	14:d4:87:TYR:C	2.64	0.41
14:d8:241:PRO:HB2	14:d8:386:CYS:SG	2.61	0.41
14:d9:17:TYR:CE2	14:g7:227:LEU:HD22	2.56	0.41
14:e0:243:ALA:HA	14:e0:386:CYS:C	2.46	0.41
14:e0:337:VAL:O	14:e0:338:GLN:C	2.64	0.41
14:e1:175:LEU:HD13	14:e1:177:PHE:HZ	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e4:241:PRO:HG2	14:e4:386:CYS:SG	2.61	0.41
14:e5:27:PHE:HD2	14:k1:66:LEU:CD1	2.24	0.41
14:e6:325:ARG:O	14:k2:3:GLY:HA2	2.21	0.41
14:e6:421:TYR:O	14:k2:17:TYR:OH	2.39	0.41
14:e7:130:ARG:HG2	14:e7:136:VAL:HG11	2.03	0.41
14:e8:243:ALA:HA	14:e8:386:CYS:O	2.20	0.41
14:f0:86:TYR:O	14:f0:87:TYR:C	2.63	0.41
14:f1:329:ARG:NH2	14:f1:333:TYR:CD1	2.89	0.41
14:f5:188:TYR:HE1	14:f5:193:ALA:HB2	1.85	0.41
14:f6:187:ASN:ND2	14:f6:188:TYR:HE1	2.16	0.41
14:f7:365:PRO:O	14:i5:34:TYR:CE1	2.73	0.41
14:f9:114:ARG:NH1	14:f9:118:ALA:HB2	2.35	0.41
14:f9:338:GLN:HB2	14:f9:339:PRO:HD3	2.02	0.41
14:g1:329:ARG:NH1	14:i9:41:SER:OG	2.54	0.41
14:g3:238:THR:O	14:g3:239:ALA:C	2.64	0.41
14:g4:187:ASN:ND2	14:g4:188:TYR:CE2	2.88	0.41
14:g4:265:ASN:ND2	14:g4:275:TYR:CE1	2.84	0.41
14:g5:188:TYR:CD1	14:g5:193:ALA:HA	2.56	0.41
14:g7:68:THR:OG1	14:g7:69:ASP:N	2.53	0.41
14:h0:219:PHE:HE1	14:h0:226:TYR:OH	2.04	0.41
14:h5:96:VAL:CG1	14:h5:177:PHE:CE2	3.04	0.41
14:h7:312:VAL:HG13	14:h7:411:LEU:HD12	2.02	0.41
14:h7:404:THR:OG1	14:h7:405:ALA:N	2.53	0.41
14:h8:68:THR:OG1	14:h8:69:ASP:N	2.53	0.41
14:i1:219:PHE:HE1	14:i1:226:TYR:OH	2.04	0.41
14:i5:86:TYR:O	14:i5:87:TYR:C	2.63	0.41
14:j0:86:TYR:O	14:j0:87:TYR:C	2.64	0.41
14:j1:211:LEU:HD13	14:j1:215:GLU:HG2	2.03	0.41
14:j2:338:GLN:HB2	14:j2:339:PRO:HD3	2.03	0.41
14:j3:112:TRP:O	14:j3:113:PHE:C	2.63	0.41
14:j8:290:THR:OG1	14:j8:291:ALA:N	2.50	0.41
14:k0:71:VAL:CG1	14:k0:73:GLU:OE2	2.69	0.41
14:k0:161:LEU:O	14:k0:162:ALA:C	2.61	0.41
14:k1:25:THR:OG1	14:k1:26:PHE:N	2.53	0.41
14:k5:112:TRP:O	14:k5:113:PHE:C	2.64	0.41
14:k5:243:ALA:CB	14:k5:386:CYS:O	2.69	0.41
14:k7:93:LEU:HD11	14:k7:177:PHE:HD1	1.85	0.41
14:k8:171:HIS:CE1	14:k8:431:GLY:H	2.39	0.41
14:k8:243:ALA:HA	14:k8:386:CYS:O	2.21	0.41
14:k9:318:ILE:O	14:k9:325:ARG:HB3	2.21	0.41
14:l2:175:LEU:CD1	14:l2:177:PHE:HZ	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:a2:236:LEU:HD13	3:a2:236:LEU:HA	1.78	0.41
3:a2:237:ASN:O	3:a2:238:GLU:O	2.39	0.41
3:a2:246:LEU:HD12	14:i6:366:SER:HB3	2.03	0.41
3:a2:284:TYR:HH	14:d1:170:TYR:HH	1.53	0.41
9:b3:161:ILE:CD1	14:h0:5:LEU:HD13	2.50	0.41
9:b5:196:VAL:O	9:b5:196:VAL:HG13	2.21	0.41
9:b8:205:LEU:HD23	9:b8:205:LEU:C	2.46	0.41
11:c3:27:LYS:O	11:c3:31:SER:OG	2.33	0.41
12:c7:56:MET:HE3	12:c7:56:MET:HB3	1.62	0.41
12:c7:59:SER:HA	14:f4:169:GLN:HE21	1.85	0.41
12:c7:88:VAL:HG13	14:f5:9:VAL:HG13	2.02	0.41
14:d3:96:VAL:HG13	14:d3:177:PHE:CD1	2.56	0.41
14:d4:124:ASP:HB3	14:j0:346:VAL:HG23	2.02	0.41
14:d8:337:VAL:O	14:d8:338:GLN:C	2.63	0.41
14:e0:243:ALA:HA	14:e0:386:CYS:O	2.21	0.41
14:e1:260:LYS:HD2	14:e1:357:ALA:CB	2.47	0.41
14:e5:7:GLN:OE1	14:h3:325:ARG:NH2	2.46	0.41
14:e9:60:ILE:CG2	14:e9:208:TYR:CZ	2.98	0.41
14:f2:20:GLY:O	14:k8:33:ARG:HD2	2.21	0.41
14:f2:337:VAL:O	14:f2:338:GLN:C	2.61	0.41
14:f3:112:TRP:O	14:f3:113:PHE:C	2.62	0.41
14:f7:386:CYS:O	14:f7:386:CYS:SG	2.79	0.41
14:g3:242:SER:OG	14:g3:243:ALA:N	2.53	0.41
14:h1:161:LEU:O	14:h1:162:ALA:C	2.61	0.41
14:h4:182:GLN:HB2	14:h4:188:TYR:HD2	1.84	0.41
14:h5:245:THR:OG1	14:h5:246:GLN:N	2.53	0.41
14:i3:203:SER:OG	14:i3:205:TRP:NE1	2.54	0.41
14:i5:210:PHE:CD1	14:l3:4:GLY:HA3	2.55	0.41
14:i6:238:THR:O	14:i6:239:ALA:C	2.63	0.41
14:i6:376:ASN:OD1	14:i6:376:ASN:C	2.64	0.41
14:j2:316:ALA:HB3	14:j2:334:PHE:CE2	2.56	0.41
2:a1:147:ASN:HB2	3:a2:201:GLY:O	2.18	0.40
4:a4:224:TYR:O	4:a4:224:TYR:CD1	2.74	0.40
8:a8:125:TRP:CH2	14:e3:62:ARG:O	2.75	0.40
9:b4:157:ALA:HB1	14:d9:430:MET:HB2	2.03	0.40
10:b6:262:ALA:HB1	14:h5:321:ASN:ND2	2.28	0.40
11:c2:26:LEU:HD13	14:i0:373:ARG:HH11	1.86	0.40
12:c6:108:ASN:ND2	14:f0:428:SER:O	2.54	0.40
14:d1:86:TYR:O	14:d1:87:TYR:C	2.63	0.40
14:d4:337:VAL:O	14:d4:338:GLN:C	2.61	0.40
14:e1:314:ASP:OD1	14:e1:330:LYS:NZ	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:e4:211:LEU:HD13	14:e4:215:GLU:HG2	2.03	0.40
14:e5:239:ALA:O	14:e5:240:THR:C	2.64	0.40
14:f2:86:TYR:O	14:f2:87:TYR:C	2.64	0.40
14:f3:86:TYR:O	14:f3:87:TYR:C	2.64	0.40
14:f5:376:ASN:OD1	14:f5:376:ASN:C	2.63	0.40
14:f6:386:CYS:SG	14:f6:409:THR:HG22	2.61	0.40
14:f8:238:THR:O	14:f8:240:THR:N	2.54	0.40
14:g5:169:GLN:OE1	9:l5:183:ILE:CD1	2.68	0.40
14:g7:86:TYR:O	14:g7:87:TYR:C	2.63	0.40
14:g9:206:VAL:CG1	14:g9:208:TYR:CE1	3.03	0.40
14:h6:37:PHE:CE1	14:k4:26:PHE:CD2	3.09	0.40
14:h6:338:GLN:HB2	14:h6:339:PRO:HD3	2.03	0.40
14:i3:243:ALA:HA	14:i3:386:CYS:C	2.46	0.40
14:i5:175:LEU:HD13	14:i5:177:PHE:CZ	2.52	0.40
14:i5:329:ARG:NH2	14:i5:333:TYR:CD2	2.88	0.40
14:j1:372:SER:HB3	9:l5:167:GLY:O	2.21	0.40
14:j2:114:ARG:NH1	14:j2:118:ALA:HB2	2.37	0.40
14:l0:329:ARG:NH2	14:l0:333:TYR:CD2	2.89	0.40
3:a2:268:THR:HA	3:a2:269:PRO:HD3	1.90	0.40
5:a5:35:PRO:CG	14:j2:16:VAL:HB	2.36	0.40
9:b1:161:ILE:CG1	14:j3:16:VAL:HG11	2.51	0.40
10:b6:230:LEU:HD13	10:b6:230:LEU:HA	1.94	0.40
10:b6:278:GLY:O	14:h7:59:GLN:NE2	2.46	0.40
9:c0:160:TRP:HZ2	14:k4:101:GLY:O	2.03	0.40
11:c4:5:PHE:O	14:k1:169:GLN:HB3	2.21	0.40
12:c6:58:LEU:CD1	14:f6:430:MET:HG2	2.50	0.40
12:c6:145:ILE:CD1	14:k2:170:TYR:CG	3.04	0.40
13:c9:40:ILE:HG23	14:d4:11:TYR:CE2	2.56	0.40
14:d2:29:THR:OG1	14:d2:30:VAL:N	2.54	0.40
14:d5:306:TYR:HE1	14:d5:346:VAL:HG22	1.86	0.40
14:d7:99:GLU:OE1	14:d7:176:TYR:HE1	2.04	0.40
14:e4:209:ILE:HG12	14:h2:27:PHE:HE1	1.81	0.40
14:e8:25:THR:OG1	14:e8:26:PHE:N	2.54	0.40
14:f1:27:PHE:HB3	14:k7:66:LEU:HD13	2.03	0.40
14:f4:219:PHE:CE1	14:f4:226:TYR:OH	2.62	0.40
14:f4:226:TYR:CZ	14:i2:28:LYS:HD3	2.56	0.40
14:f9:242:SER:OG	14:f9:243:ALA:N	2.54	0.40
14:g2:37:PHE:CE1	14:j0:27:PHE:CZ	3.05	0.40
14:g5:96:VAL:HG13	14:g5:177:PHE:CE2	2.57	0.40
14:g5:428:SER:HB3	9:l5:185:LYS:HA	2.03	0.40
14:h2:219:PHE:HA	14:h2:224:HIS:HE2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:h5:325:ARG:NH2	14:k3:39:ILE:O	2.52	0.40
14:h8:175:LEU:HD13	14:h8:177:PHE:CZ	2.53	0.40
14:i0:86:TYR:O	14:i0:87:TYR:C	2.63	0.40
14:i1:96:VAL:HG11	14:i1:177:PHE:CE2	2.55	0.40
14:i8:238:THR:O	14:i8:239:ALA:C	2.62	0.40
14:j3:242:SER:OG	14:j3:243:ALA:N	2.53	0.40
14:j5:226:TYR:CD1	14:j5:426:ILE:HD13	2.57	0.40
14:j6:188:TYR:CD2	14:j6:193:ALA:CA	2.98	0.40
14:k6:96:VAL:CG1	14:k6:177:PHE:CE2	3.04	0.40
3:a3:243:VAL:HG13	3:a3:269:PRO:HB3	2.02	0.40
3:a3:271:GLY:O	14:f9:23:GLN:CB	2.70	0.40
9:b0:147:LYS:O	9:b0:148:ASN:ND2	2.54	0.40
10:b6:240:GLY:HA2	14:j2:171:HIS:HE2	1.86	0.40
9:b8:191:TRP:O	9:b8:191:TRP:HD1	2.02	0.40
12:c6:47:ASN:HB3	14:f6:221:GLN:HG2	2.03	0.40
12:c6:75:THR:HG23	14:f6:372:SER:HB3	2.03	0.40
12:c6:144:MET:O	14:h8:169:GLN:HG2	2.22	0.40
12:c6:158:ALA:O	14:e7:436:ALA:CA	2.70	0.40
12:c7:26:ASN:O	12:c7:30:THR:OG1	2.29	0.40
14:d0:112:TRP:O	14:d0:113:PHE:C	2.64	0.40
14:d2:243:ALA:HA	14:d2:386:CYS:C	2.47	0.40
14:d6:337:VAL:O	14:d6:338:GLN:C	2.63	0.40
14:d9:17:TYR:HE2	14:g7:227:LEU:HD22	1.86	0.40
14:e3:338:GLN:HB2	14:e3:339:PRO:HD3	2.04	0.40
14:f1:373:ARG:CZ	14:k7:12:GLY:HA3	2.48	0.40
14:f4:86:TYR:O	14:f4:87:TYR:C	2.63	0.40
14:f4:238:THR:HG22	14:f4:414:LEU:HB2	2.03	0.40
14:g6:67:ILE:CG2	14:g6:208:TYR:CE2	3.04	0.40
14:g8:386:CYS:SG	14:g8:409:THR:HG22	2.61	0.40
14:h1:182:GLN:HB3	14:h1:188:TYR:CE2	2.56	0.40
14:h2:175:LEU:HB3	14:h2:177:PHE:CZ	2.56	0.40
14:h9:337:VAL:HG21	14:k7:148:TYR:CG	2.55	0.40
14:i5:96:VAL:HG23	14:i5:177:PHE:CE1	2.54	0.40
14:j0:243:ALA:CB	14:j0:386:CYS:O	2.70	0.40
14:j6:161:LEU:O	14:j6:162:ALA:C	2.64	0.40
14:k0:175:LEU:HD13	14:k0:177:PHE:CZ	2.56	0.40
14:k2:17:TYR:CE2	14:k2:18:LEU:CG	3.04	0.40
14:k6:308:GLU:O	14:k6:309:GLN:C	2.65	0.40
2:a1:147:ASN:CB	3:a2:201:GLY:O	2.68	0.40
2:a1:172:VAL:HG13	14:i6:428:SER:C	2.46	0.40
9:b4:178:ARG:HE	9:b4:178:ARG:HB2	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:b6:239:PRO:HG3	14:j3:64:GLY:O	2.20	0.40
10:b6:277:ASN:HD21	14:h6:169:GLN:C	2.30	0.40
14:d0:27:PHE:HE1	14:i6:209:ILE:HG12	1.86	0.40
14:d0:96:VAL:HG13	14:d0:177:PHE:CD2	2.57	0.40
14:f3:308:GLU:OE1	14:f3:336:LYS:NZ	2.55	0.40
14:h1:330:LYS:O	14:h1:333:TYR:HB3	2.22	0.40
14:h5:206:VAL:HG12	14:h5:208:TYR:CE1	2.57	0.40
14:i4:86:TYR:O	14:i4:87:TYR:C	2.65	0.40
14:i4:226:TYR:CE2	14:l2:28:LYS:HD3	2.57	0.40
14:i4:239:ALA:O	14:i4:240:THR:C	2.63	0.40
14:i5:30:VAL:O	14:i5:30:VAL:CG1	2.70	0.40
14:i5:114:ARG:NH1	14:i5:118:ALA:HB2	2.36	0.40
14:i7:347:THR:HA	14:i7:348:PRO:HD3	1.95	0.40
14:j3:60:ILE:CD1	14:j3:67:ILE:HD13	2.51	0.40
14:j7:60:ILE:HD12	14:j7:67:ILE:CD1	2.50	0.40
14:j8:265:ASN:CB	14:j8:275:TYR:CD1	3.03	0.40
14:k0:73:GLU:HG3	14:k0:148:TYR:HD1	1.87	0.40
14:k5:187:ASN:ND2	14:k5:188:TYR:CE1	2.90	0.40
14:k6:219:PHE:HE1	14:k6:226:TYR:OH	2.03	0.40
14:k6:265:ASN:ND2	14:k6:275:TYR:CE1	2.83	0.40
14:k9:114:ARG:HH12	14:k9:118:ALA:HB2	1.87	0.40
14:k9:232:GLN:OE1	14:k9:256:ASN:OD1	2.39	0.40
14:l2:211:LEU:HD13	14:l2:215:GLU:HG2	2.04	0.40
14:l3:86:TYR:O	14:l3:87:TYR:C	2.64	0.40
3:a3:235:SER:HA	14:i7:24:ILE:HG22	2.03	0.40
10:b6:182:VAL:O	10:b6:182:VAL:CG1	2.69	0.40
10:b6:297:ARG:HA	14:h8:321:ASN:ND2	2.36	0.40
9:b7:198:PRO:O	14:i9:169:GLN:NE2	2.49	0.40
9:c0:190:PRO:HB2	14:g4:427:MET:CE	2.51	0.40
9:c1:191:TRP:C	9:c1:193:MET:N	2.80	0.40
12:c7:69:VAL:O	14:i3:425:ARG:NH2	2.54	0.40
14:d0:27:PHE:HD1	14:i6:209:ILE:HD13	1.78	0.40
14:d5:7:GLN:OE1	14:g3:325:ARG:NH2	2.52	0.40
14:d8:238:THR:O	14:d8:240:THR:N	2.54	0.40
14:e0:112:TRP:O	14:e0:113:PHE:C	2.64	0.40
14:e7:188:TYR:CE2	14:e7:193:ALA:CB	3.03	0.40
14:e9:161:LEU:O	14:e9:162:ALA:C	2.62	0.40
14:f1:226:TYR:HD1	14:f1:426:ILE:CD1	2.34	0.40
14:f7:320:LEU:HD22	14:f7:374:ILE:CD1	2.39	0.40
14:f8:60:ILE:CD1	14:f8:173:VAL:HG12	2.46	0.40
14:g0:3:GLY:HA2	14:i8:325:ARG:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g1:175:LEU:HB3	14:g1:177:PHE:CZ	2.57	0.40
14:g2:337:VAL:O	14:g2:338:GLN:C	2.61	0.40
14:g3:184:GLN:HG2	14:g3:300:TYR:CD1	2.57	0.40
14:g5:226:TYR:CD2	14:g5:426:ILE:CD1	3.05	0.40
14:g6:112:TRP:O	14:g6:113:PHE:C	2.64	0.40
14:g8:260:LYS:CE	14:g8:421:TYR:OH	2.45	0.40
14:g8:423:VAL:O	14:g8:434:ALA:N	2.53	0.40
14:h3:96:VAL:HG22	14:h3:177:PHE:CD1	2.57	0.40
14:h3:211:LEU:HD13	14:h3:215:GLU:HG2	2.04	0.40
14:h3:318:ILE:O	14:h3:325:ARG:HB3	2.21	0.40
14:h5:187:ASN:HD21	14:h5:188:TYR:HE1	1.69	0.40
14:h6:223:PRO:HB2	14:h6:425:ARG:CZ	2.51	0.40
14:h7:376:ASN:OD1	14:h7:376:ASN:C	2.63	0.40
14:h8:318:ILE:O	14:h8:325:ARG:HB3	2.21	0.40
14:i2:376:ASN:OD1	14:i2:376:ASN:C	2.65	0.40
14:j1:260:LYS:HB3	14:j1:421:TYR:HE1	1.86	0.40
14:j2:243:ALA:HB2	14:j2:386:CYS:O	2.22	0.40
14:j3:60:ILE:O	14:j3:60:ILE:HG13	2.22	0.40
14:j5:386:CYS:O	14:j5:386:CYS:SG	2.79	0.40
14:j7:260:LYS:HD3	14:j7:421:TYR:CE1	2.56	0.40
14:j8:175:LEU:HB3	14:j8:177:PHE:CZ	2.57	0.40
14:j9:86:TYR:O	14:j9:87:TYR:C	2.64	0.40
14:k1:242:SER:OG	14:k1:243:ALA:N	2.55	0.40
14:k3:258:PRO:HG2	14:k3:421:TYR:O	2.20	0.40
14:k6:175:LEU:CB	14:k6:177:PHE:CE1	3.04	0.40
14:k9:287:GLY:O	14:k9:288:ALA:C	2.64	0.40
14:k9:337:VAL:O	14:k9:338:GLN:C	2.61	0.40
14:l1:130:ARG:HG2	14:l1:136:VAL:HG11	2.04	0.40
14:l2:242:SER:OG	14:l2:243:ALA:N	2.53	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	a0	95/352 (27%)	93 (98%)	2 (2%)	0	100	100
2	a1	105/210 (50%)	85 (81%)	17 (16%)	3 (3%)	3	26
3	a2	92/289 (32%)	76 (83%)	14 (15%)	2 (2%)	5	30
3	a3	72/289 (25%)	60 (83%)	12 (17%)	0	100	100
4	a4	149/256 (58%)	130 (87%)	14 (9%)	5 (3%)	3	23
5	a5	187/216 (87%)	162 (87%)	24 (13%)	1 (0%)	24	57
6	a6	165/170 (97%)	155 (94%)	9 (6%)	1 (1%)	21	54
7	a7	76/151 (50%)	65 (86%)	7 (9%)	4 (5%)	1	14
8	a8	140/146 (96%)	126 (90%)	12 (9%)	2 (1%)	9	38
9	a9	45/207 (22%)	34 (76%)	11 (24%)	0	100	100
9	b0	57/207 (28%)	45 (79%)	10 (18%)	2 (4%)	3	23
9	b1	52/207 (25%)	43 (83%)	8 (15%)	1 (2%)	6	33
9	b2	49/207 (24%)	39 (80%)	10 (20%)	0	100	100
9	b3	49/207 (24%)	38 (78%)	9 (18%)	2 (4%)	2	19
9	b4	50/207 (24%)	40 (80%)	9 (18%)	1 (2%)	6	32
9	b5	55/207 (27%)	36 (66%)	16 (29%)	3 (6%)	1	13
9	b7	50/207 (24%)	45 (90%)	5 (10%)	0	100	100
9	b8	55/207 (27%)	47 (86%)	8 (14%)	0	100	100
9	c0	49/207 (24%)	41 (84%)	6 (12%)	2 (4%)	2	19
9	c1	49/207 (24%)	38 (78%)	7 (14%)	4 (8%)	0	8
9	l5	56/207 (27%)	42 (75%)	13 (23%)	1 (2%)	6	34
10	b6	473/576 (82%)	392 (83%)	77 (16%)	4 (1%)	16	49
11	c2	101/181 (56%)	76 (75%)	25 (25%)	0	100	100
11	c3	58/181 (32%)	40 (69%)	17 (29%)	1 (2%)	7	35
11	c4	56/181 (31%)	46 (82%)	8 (14%)	2 (4%)	2	22
11	c5	56/181 (31%)	42 (75%)	13 (23%)	1 (2%)	6	34
12	c6	139/171 (81%)	114 (82%)	24 (17%)	1 (1%)	18	51
12	c7	145/171 (85%)	111 (77%)	27 (19%)	7 (5%)	2	16
12	c8	114/171 (67%)	100 (88%)	14 (12%)	0	100	100
13	c9	164/173 (95%)	160 (98%)	2 (1%)	2 (1%)	10	41
14	d0	428/437 (98%)	419 (98%)	9 (2%)	0	100	100
14	d1	432/437 (99%)	422 (98%)	10 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	d2	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	d3	432/437 (99%)	424 (98%)	7 (2%)	1 (0%)	43	74
14	d4	432/437 (99%)	422 (98%)	10 (2%)	0	100	100
14	d5	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	d6	433/437 (99%)	427 (99%)	6 (1%)	0	100	100
14	d7	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	d8	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	d9	434/437 (99%)	422 (97%)	12 (3%)	0	100	100
14	e0	433/437 (99%)	424 (98%)	8 (2%)	1 (0%)	43	74
14	e1	432/437 (99%)	424 (98%)	8 (2%)	0	100	100
14	e2	432/437 (99%)	419 (97%)	13 (3%)	0	100	100
14	e3	433/437 (99%)	426 (98%)	6 (1%)	1 (0%)	43	74
14	e4	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	e5	433/437 (99%)	428 (99%)	5 (1%)	0	100	100
14	e6	434/437 (99%)	424 (98%)	10 (2%)	0	100	100
14	e7	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	e8	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	e9	433/437 (99%)	423 (98%)	9 (2%)	1 (0%)	43	74
14	f0	432/437 (99%)	424 (98%)	8 (2%)	0	100	100
14	f1	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	f2	434/437 (99%)	426 (98%)	7 (2%)	1 (0%)	43	74
14	f3	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	f4	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	f5	432/437 (99%)	423 (98%)	9 (2%)	0	100	100
14	f6	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	f7	432/437 (99%)	420 (97%)	12 (3%)	0	100	100
14	f8	431/437 (99%)	421 (98%)	10 (2%)	0	100	100
14	f9	432/437 (99%)	419 (97%)	13 (3%)	0	100	100
14	g0	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	g1	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	g2	432/437 (99%)	423 (98%)	8 (2%)	1 (0%)	43	74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	g3	432/437 (99%)	421 (98%)	11 (2%)	0	100	100
14	g4	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	g5	433/437 (99%)	426 (98%)	6 (1%)	1 (0%)	43	74
14	g6	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	g7	432/437 (99%)	422 (98%)	10 (2%)	0	100	100
14	g8	434/437 (99%)	427 (98%)	7 (2%)	0	100	100
14	g9	433/437 (99%)	427 (99%)	6 (1%)	0	100	100
14	h0	433/437 (99%)	429 (99%)	4 (1%)	0	100	100
14	h1	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	h2	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	h3	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	h4	432/437 (99%)	424 (98%)	8 (2%)	0	100	100
14	h5	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	h6	432/437 (99%)	424 (98%)	8 (2%)	0	100	100
14	h7	434/437 (99%)	427 (98%)	7 (2%)	0	100	100
14	h8	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	h9	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	i0	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	i1	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	i2	432/437 (99%)	424 (98%)	8 (2%)	0	100	100
14	i3	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	i4	433/437 (99%)	427 (99%)	6 (1%)	0	100	100
14	i5	434/437 (99%)	428 (99%)	6 (1%)	0	100	100
14	i6	432/437 (99%)	423 (98%)	9 (2%)	0	100	100
14	i7	432/437 (99%)	425 (98%)	7 (2%)	0	100	100
14	i8	434/437 (99%)	421 (97%)	11 (2%)	2 (0%)	24	57
14	i9	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	j0	434/437 (99%)	426 (98%)	7 (2%)	1 (0%)	43	74
14	j1	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	j2	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	j3	433/437 (99%)	421 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	j4	432/437 (99%)	422 (98%)	10 (2%)	0	100	100
14	j5	432/437 (99%)	423 (98%)	9 (2%)	0	100	100
14	j6	432/437 (99%)	423 (98%)	9 (2%)	0	100	100
14	j7	434/437 (99%)	423 (98%)	11 (2%)	0	100	100
14	j8	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	j9	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	k0	432/437 (99%)	426 (99%)	5 (1%)	1 (0%)	43	74
14	k1	433/437 (99%)	427 (99%)	6 (1%)	0	100	100
14	k2	433/437 (99%)	424 (98%)	8 (2%)	1 (0%)	43	74
14	k3	432/437 (99%)	422 (98%)	10 (2%)	0	100	100
14	k4	434/437 (99%)	426 (98%)	8 (2%)	0	100	100
14	k5	434/437 (99%)	425 (98%)	9 (2%)	0	100	100
14	k6	433/437 (99%)	426 (98%)	7 (2%)	0	100	100
14	k7	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	k8	433/437 (99%)	425 (98%)	8 (2%)	0	100	100
14	k9	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	l0	433/437 (99%)	424 (98%)	9 (2%)	0	100	100
14	l1	433/437 (99%)	423 (98%)	10 (2%)	0	100	100
14	l2	432/437 (99%)	423 (98%)	9 (2%)	0	100	100
14	l3	434/437 (99%)	426 (98%)	8 (2%)	0	100	100
15	l4	64/98 (65%)	63 (98%)	1 (2%)	0	100	100
All	All	39415/43355 (91%)	38213 (97%)	1138 (3%)	64 (0%)	44	74

All (64) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	a1	203	PRO
3	a2	283	ASN
4	a4	199	TRP
9	b0	198	PRO
9	b1	192	MET
9	b5	175	TYR
9	c1	193	MET
9	c1	198	PRO
11	c4	7	ASP

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Mol	Chain	Res	Type
11	c4	15	ASP
12	c7	71	VAL
12	c7	82	GLU
14	e0	25	THR
14	g5	364	GLN
2	a1	137	ASP
4	a4	142	MET
7	a7	114	LYS
10	b6	172	GLY
10	b6	173	ASP
9	c0	198	PRO
11	c3	22	THR
11	c5	34	ILE
14	e3	257	HIS
7	a7	116	ASN
7	a7	121	ASN
9	b3	198	PRO
10	b6	112	GLY
10	b6	171	PRO
9	c1	192	MET
12	c7	69	VAL
13	c9	141	SER
14	d3	399	ASN
4	a4	130	GLU
8	a8	7	ALA
12	c7	101	ARG
13	c9	140	PHE
14	f2	240	THR
14	i8	23	GLN
14	j0	434	ALA
2	a1	130	ALA
3	a2	256	GLN
4	a4	168	TRP
4	a4	251	GLN
5	a5	203	PHE
9	b5	174	ASN
12	c6	162	THR
12	c7	53	LEU
12	c7	150	ALA
14	i8	22	PRO
9	l5	140	ASP
6	a6	133	ILE

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Mol	Chain	Res	Type
9	b3	197	ASP
9	b5	204	PRO
9	c0	197	ASP
9	c1	197	ASP
14	g2	257	HIS
14	e9	257	HIS
7	a7	125	VAL
8	a8	36	PRO
9	b4	204	PRO
12	c7	27	PRO
14	k2	257	HIS
9	b0	197	ASP
14	k0	257	HIS

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a0	78/309 (25%)	77 (99%)	1 (1%)	61	72
2	a1	64/179 (36%)	61 (95%)	3 (5%)	23	49
3	a2	60/249 (24%)	56 (93%)	4 (7%)	15	41
3	a3	42/249 (17%)	42 (100%)	0	100	100
4	a4	92/222 (41%)	88 (96%)	4 (4%)	26	51
5	a5	119/188 (63%)	116 (98%)	3 (2%)	42	63
6	a6	124/145 (86%)	124 (100%)	0	100	100
7	a7	45/139 (32%)	42 (93%)	3 (7%)	15	41
8	a8	87/125 (70%)	86 (99%)	1 (1%)	65	74
9	a9	25/181 (14%)	25 (100%)	0	100	100
9	b0	34/181 (19%)	31 (91%)	3 (9%)	9	32
9	b1	30/181 (17%)	27 (90%)	3 (10%)	7	28
9	b2	31/181 (17%)	31 (100%)	0	100	100
9	b3	26/181 (14%)	26 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	b4	26/181 (14%)	22 (85%)	4 (15%)	2	16
9	b5	25/181 (14%)	23 (92%)	2 (8%)	11	35
9	b7	35/181 (19%)	34 (97%)	1 (3%)	37	60
9	b8	28/181 (16%)	27 (96%)	1 (4%)	31	57
9	c0	29/181 (16%)	29 (100%)	0	100	100
9	c1	27/181 (15%)	27 (100%)	0	100	100
9	l5	29/181 (16%)	29 (100%)	0	100	100
10	b6	264/479 (55%)	255 (97%)	9 (3%)	32	57
11	c2	32/161 (20%)	31 (97%)	1 (3%)	35	59
11	c3	29/161 (18%)	29 (100%)	0	100	100
11	c4	24/161 (15%)	22 (92%)	2 (8%)	10	34
11	c5	31/161 (19%)	30 (97%)	1 (3%)	34	59
12	c6	78/144 (54%)	77 (99%)	1 (1%)	61	72
12	c7	81/144 (56%)	73 (90%)	8 (10%)	7	29
12	c8	73/144 (51%)	73 (100%)	0	100	100
13	c9	114/148 (77%)	114 (100%)	0	100	100
14	d0	355/358 (99%)	355 (100%)	0	100	100
14	d1	356/358 (99%)	356 (100%)	0	100	100
14	d2	356/358 (99%)	356 (100%)	0	100	100
14	d3	356/358 (99%)	356 (100%)	0	100	100
14	d4	356/358 (99%)	356 (100%)	0	100	100
14	d5	355/358 (99%)	355 (100%)	0	100	100
14	d6	356/358 (99%)	356 (100%)	0	100	100
14	d7	355/358 (99%)	355 (100%)	0	100	100
14	d8	357/358 (100%)	357 (100%)	0	100	100
14	d9	357/358 (100%)	357 (100%)	0	100	100
14	e0	357/358 (100%)	357 (100%)	0	100	100
14	e1	356/358 (99%)	356 (100%)	0	100	100
14	e2	356/358 (99%)	356 (100%)	0	100	100
14	e3	356/358 (99%)	356 (100%)	0	100	100
14	e4	356/358 (99%)	356 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	e5	357/358 (100%)	357 (100%)	0	100	100
14	e6	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	e7	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	e8	357/358 (100%)	357 (100%)	0	100	100
14	e9	356/358 (99%)	356 (100%)	0	100	100
14	f0	355/358 (99%)	355 (100%)	0	100	100
14	f1	356/358 (99%)	356 (100%)	0	100	100
14	f2	357/358 (100%)	357 (100%)	0	100	100
14	f3	356/358 (99%)	356 (100%)	0	100	100
14	f4	356/358 (99%)	356 (100%)	0	100	100
14	f5	355/358 (99%)	355 (100%)	0	100	100
14	f6	356/358 (99%)	356 (100%)	0	100	100
14	f7	354/358 (99%)	353 (100%)	1 (0%)	86	83
14	f8	356/358 (99%)	356 (100%)	0	100	100
14	f9	356/358 (99%)	356 (100%)	0	100	100
14	g0	356/358 (99%)	356 (100%)	0	100	100
14	g1	356/358 (99%)	356 (100%)	0	100	100
14	g2	356/358 (99%)	356 (100%)	0	100	100
14	g3	356/358 (99%)	356 (100%)	0	100	100
14	g4	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	g5	356/358 (99%)	356 (100%)	0	100	100
14	g6	356/358 (99%)	356 (100%)	0	100	100
14	g7	355/358 (99%)	355 (100%)	0	100	100
14	g8	357/358 (100%)	357 (100%)	0	100	100
14	g9	357/358 (100%)	357 (100%)	0	100	100
14	h0	356/358 (99%)	356 (100%)	0	100	100
14	h1	356/358 (99%)	356 (100%)	0	100	100
14	h2	356/358 (99%)	356 (100%)	0	100	100
14	h3	357/358 (100%)	357 (100%)	0	100	100
14	h4	356/358 (99%)	356 (100%)	0	100	100
14	h5	356/358 (99%)	356 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	h6	356/358 (99%)	356 (100%)	0	100	100
14	h7	357/358 (100%)	357 (100%)	0	100	100
14	h8	356/358 (99%)	356 (100%)	0	100	100
14	h9	355/358 (99%)	355 (100%)	0	100	100
14	i0	357/358 (100%)	357 (100%)	0	100	100
14	i1	356/358 (99%)	356 (100%)	0	100	100
14	i2	356/358 (99%)	356 (100%)	0	100	100
14	i3	356/358 (99%)	356 (100%)	0	100	100
14	i4	356/358 (99%)	356 (100%)	0	100	100
14	i5	357/358 (100%)	357 (100%)	0	100	100
14	i6	356/358 (99%)	355 (100%)	1 (0%)	86	83
14	i7	356/358 (99%)	356 (100%)	0	100	100
14	i8	356/358 (99%)	356 (100%)	0	100	100
14	i9	356/358 (99%)	356 (100%)	0	100	100
14	j0	356/358 (99%)	354 (99%)	2 (1%)	78	79
14	j1	356/358 (99%)	356 (100%)	0	100	100
14	j2	356/358 (99%)	356 (100%)	0	100	100
14	j3	356/358 (99%)	356 (100%)	0	100	100
14	j4	356/358 (99%)	356 (100%)	0	100	100
14	j5	356/358 (99%)	356 (100%)	0	100	100
14	j6	356/358 (99%)	356 (100%)	0	100	100
14	j7	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	j8	357/358 (100%)	355 (99%)	2 (1%)	78	79
14	j9	356/358 (99%)	356 (100%)	0	100	100
14	k0	356/358 (99%)	356 (100%)	0	100	100
14	k1	356/358 (99%)	356 (100%)	0	100	100
14	k2	356/358 (99%)	356 (100%)	0	100	100
14	k3	356/358 (99%)	356 (100%)	0	100	100
14	k4	357/358 (100%)	357 (100%)	0	100	100
14	k5	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	k6	357/358 (100%)	357 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	k7	356/358 (99%)	355 (100%)	1 (0%)	86	83
14	k8	357/358 (100%)	356 (100%)	1 (0%)	86	83
14	k9	355/358 (99%)	355 (100%)	0	100	100
14	l0	357/358 (100%)	357 (100%)	0	100	100
14	l1	357/358 (100%)	357 (100%)	0	100	100
14	l2	356/358 (99%)	356 (100%)	0	100	100
14	l3	357/358 (100%)	357 (100%)	0	100	100
15	l4	42/79 (53%)	42 (100%)	0	100	100
All	All	31742/35831 (89%)	31674 (100%)	68 (0%)	85	85

All (68) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	a0	67	LEU
2	a1	193	THR
2	a1	201	CYS
2	a1	202	THR
3	a2	198	ASP
3	a2	236	LEU
3	a2	270	PRO
3	a2	274	THR
4	a4	109	VAL
4	a4	112	VAL
4	a4	241	THR
4	a4	242	TRP
5	a5	52	THR
5	a5	54	THR
5	a5	99	VAL
7	a7	110	LEU
7	a7	124	TRP
7	a7	125	VAL
8	a8	144	TYR
9	b0	188	VAL
9	b0	191	TRP
9	b0	192	MET
9	b1	158	THR
9	b1	161	ILE
9	b1	165	THR
9	b4	158	THR

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Mol	Chain	Res	Type
9	b4	183	ILE
9	b4	188	VAL
9	b4	191	TRP
9	b5	195	SER
9	b5	196	VAL
10	b6	182	VAL
10	b6	183	ASN
10	b6	244	THR
10	b6	281	LEU
10	b6	284	THR
10	b6	298	PRO
10	b6	300	GLU
10	b6	358	THR
10	b6	411	THR
9	b7	188	VAL
9	b8	190	PRO
11	c2	70	THR
11	c4	17	HIS
11	c4	22	THR
11	c5	59	LEU
12	c6	95	THR
12	c7	43	THR
12	c7	50	ILE
12	c7	56	MET
12	c7	71	VAL
12	c7	154	THR
12	c7	155	SER
12	c7	162	THR
12	c7	166	LEU
14	e6	63	ASN
14	e7	430	MET
14	f7	374	ILE
14	g4	433	LEU
14	i6	358	LEU
14	j0	171	HIS
14	j0	433	LEU
14	j7	103	GLN
14	j8	427	MET
14	j8	430	MET
14	k5	433	LEU
14	k7	437	ASN
14	k8	437	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (184) such sidechains are listed below:

Mol	Chain	Res	Type
2	a1	166	GLN
3	a2	237	ASN
3	a3	224	ASN
4	a4	210	GLN
4	a4	216	ASN
5	a5	176	ASN
6	a6	7	HIS
6	a6	137	ASN
9	a9	166	GLN
9	b0	148	ASN
9	b0	166	GLN
9	b0	174	ASN
9	b1	172	ASN
9	b3	164	ASN
9	b3	166	GLN
10	b6	195	GLN
10	b6	215	HIS
10	b6	252	GLN
10	b6	338	ASN
10	b6	419	ASN
10	b6	503	ASN
10	b6	508	GLN
9	b7	199	ASN
9	c1	199	ASN
11	c3	58	GLN
12	c6	108	ASN
12	c6	113	ASN
13	c9	42	HIS
14	d1	214	GLN
14	d1	335	ASN
14	d2	36	ASN
14	d2	341	GLN
14	d3	256	ASN
14	d4	36	ASN
14	d4	169	GLN
14	d5	256	ASN
14	d7	265	ASN
14	d7	267	ASN
14	d8	256	ASN
14	e0	171	HIS
14	e0	254	ASN

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Mol	Chain	Res	Type
14	e1	399	ASN
14	e2	254	ASN
14	e2	267	ASN
14	e3	250	ASN
14	e3	257	HIS
14	e6	63	ASN
14	e6	265	ASN
14	e6	267	ASN
14	e6	437	ASN
14	e7	257	HIS
14	e7	267	ASN
14	e9	265	ASN
14	e9	267	ASN
14	f0	267	ASN
14	f0	319	GLN
14	f0	376	ASN
14	f2	256	ASN
14	f2	437	ASN
14	f3	14	GLN
14	f3	321	ASN
14	f3	437	ASN
14	f4	14	GLN
14	f4	221	GLN
14	f4	265	ASN
14	f4	267	ASN
14	f5	14	GLN
14	f6	265	ASN
14	f6	267	ASN
14	f7	265	ASN
14	f7	267	ASN
14	f8	23	GLN
14	f8	36	ASN
14	f8	256	ASN
14	f9	256	ASN
14	f9	265	ASN
14	f9	267	ASN
14	g1	63	ASN
14	g1	267	ASN
14	g1	309	GLN
14	g2	43	GLN
14	g2	169	GLN
14	g2	256	ASN

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Mol	Chain	Res	Type
14	g3	63	ASN
14	g3	250	ASN
14	g3	254	ASN
14	g3	267	ASN
14	g3	323	GLN
14	g4	36	ASN
14	g4	254	ASN
14	g4	265	ASN
14	g4	267	ASN
14	g5	63	ASN
14	g5	157	GLN
14	g6	36	ASN
14	g7	323	GLN
14	g8	36	ASN
14	g8	321	ASN
14	g8	323	GLN
14	h0	14	GLN
14	h0	250	ASN
14	h0	256	ASN
14	h0	265	ASN
14	h0	267	ASN
14	h2	265	ASN
14	h2	267	ASN
14	h2	323	GLN
14	h3	47	ASN
14	h3	323	GLN
14	h5	265	ASN
14	h5	267	ASN
14	h6	265	ASN
14	h6	267	ASN
14	h6	323	GLN
14	h7	36	ASN
14	h7	256	ASN
14	h8	36	ASN
14	h8	256	ASN
14	h8	265	ASN
14	h8	267	ASN
14	h9	256	ASN
14	h9	376	ASN
14	i0	265	ASN
14	i0	267	ASN
14	i0	376	ASN

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Mol	Chain	Res	Type
14	i3	267	ASN
14	i4	265	ASN
14	i4	267	ASN
14	i5	36	ASN
14	i5	63	ASN
14	i5	250	ASN
14	i5	265	ASN
14	i5	267	ASN
14	i5	437	ASN
14	i6	63	ASN
14	i6	108	HIS
14	i6	214	GLN
14	i6	221	GLN
14	i6	265	ASN
14	i6	267	ASN
14	i8	267	ASN
14	i9	36	ASN
14	j1	63	ASN
14	j2	341	GLN
14	j4	63	ASN
14	j6	265	ASN
14	j6	267	ASN
14	j7	103	GLN
14	j7	157	GLN
14	j7	265	ASN
14	j7	267	ASN
14	j9	250	ASN
14	k0	265	ASN
14	k0	267	ASN
14	k1	265	ASN
14	k1	267	ASN
14	k2	265	ASN
14	k2	267	ASN
14	k3	254	ASN
14	k3	415	ASN
14	k4	47	ASN
14	k4	265	ASN
14	k4	267	ASN
14	k4	415	ASN
14	k5	256	ASN
14	k5	265	ASN
14	k5	267	ASN

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Mol	Chain	Res	Type
14	k6	214	GLN
14	k6	265	ASN
14	k6	267	ASN
14	k7	265	ASN
14	k7	267	ASN
14	k8	256	ASN
14	k9	36	ASN
14	k9	267	ASN
14	l0	47	ASN
14	l2	14	GLN
14	l2	250	ASN
14	l2	265	ASN
14	l2	267	ASN
14	l3	36	ASN
14	l3	319	GLN
15	l4	43	ASN
9	l5	166	GLN

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 ⓘ

There are no chain breaks in this entry.

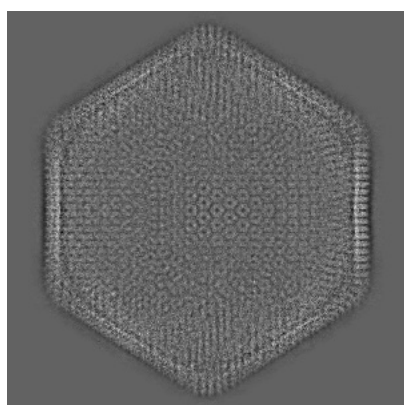
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0436. These allow visual inspection of the internal detail of the map and identification of artifacts.

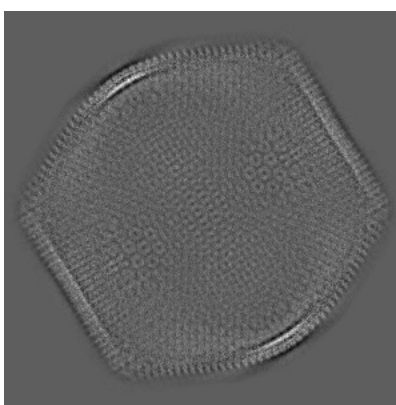
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

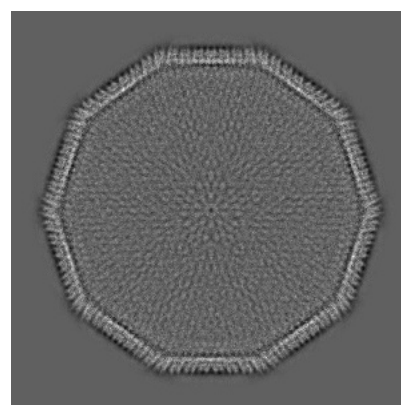
6.1.1 Primary map



X



Y

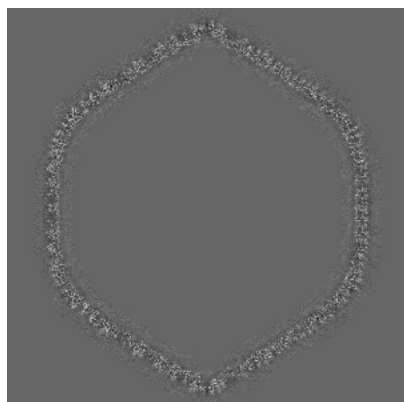


Z

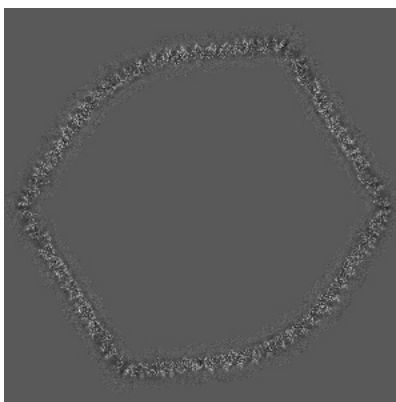
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

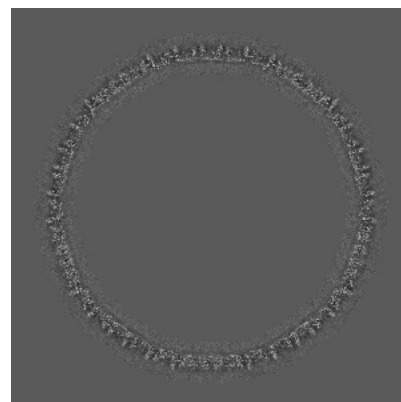
6.2.1 Primary map



X Index: 600



Y Index: 600

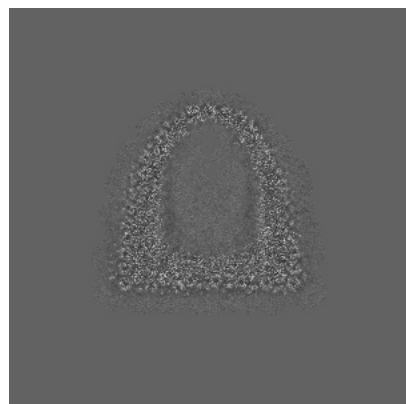


Z Index: 600

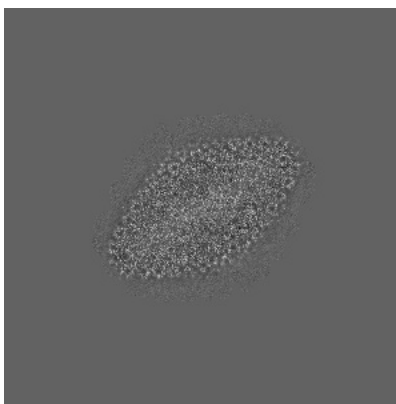
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

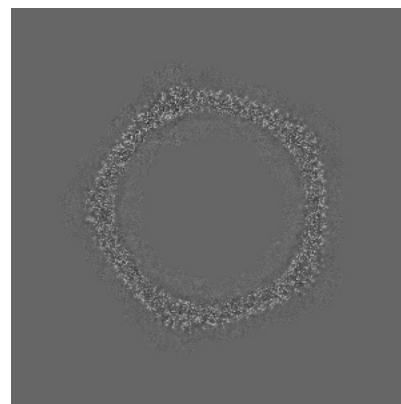
6.3.1 Primary map



X Index: 1020



Y Index: 1050

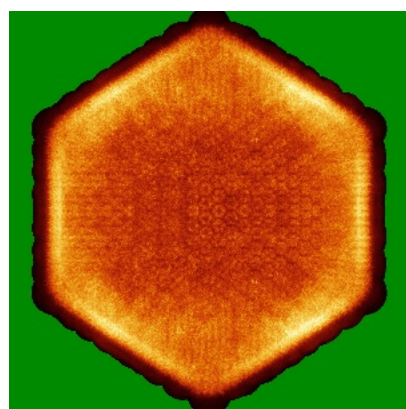


Z Index: 258

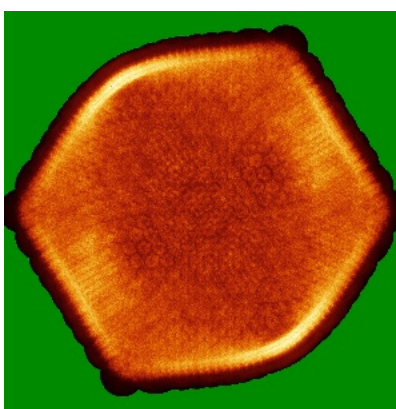
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

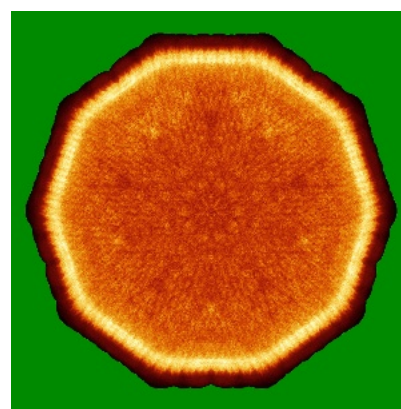
6.4.1 Primary map



X



Y

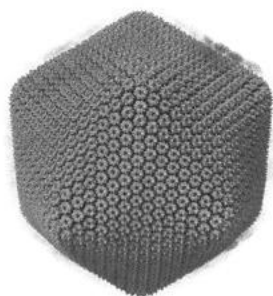


Z

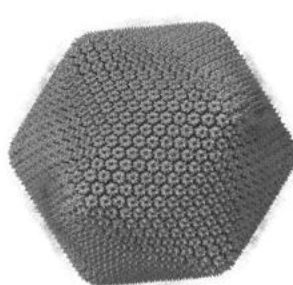
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

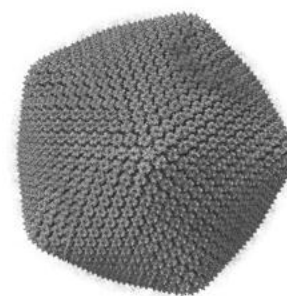
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 7.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

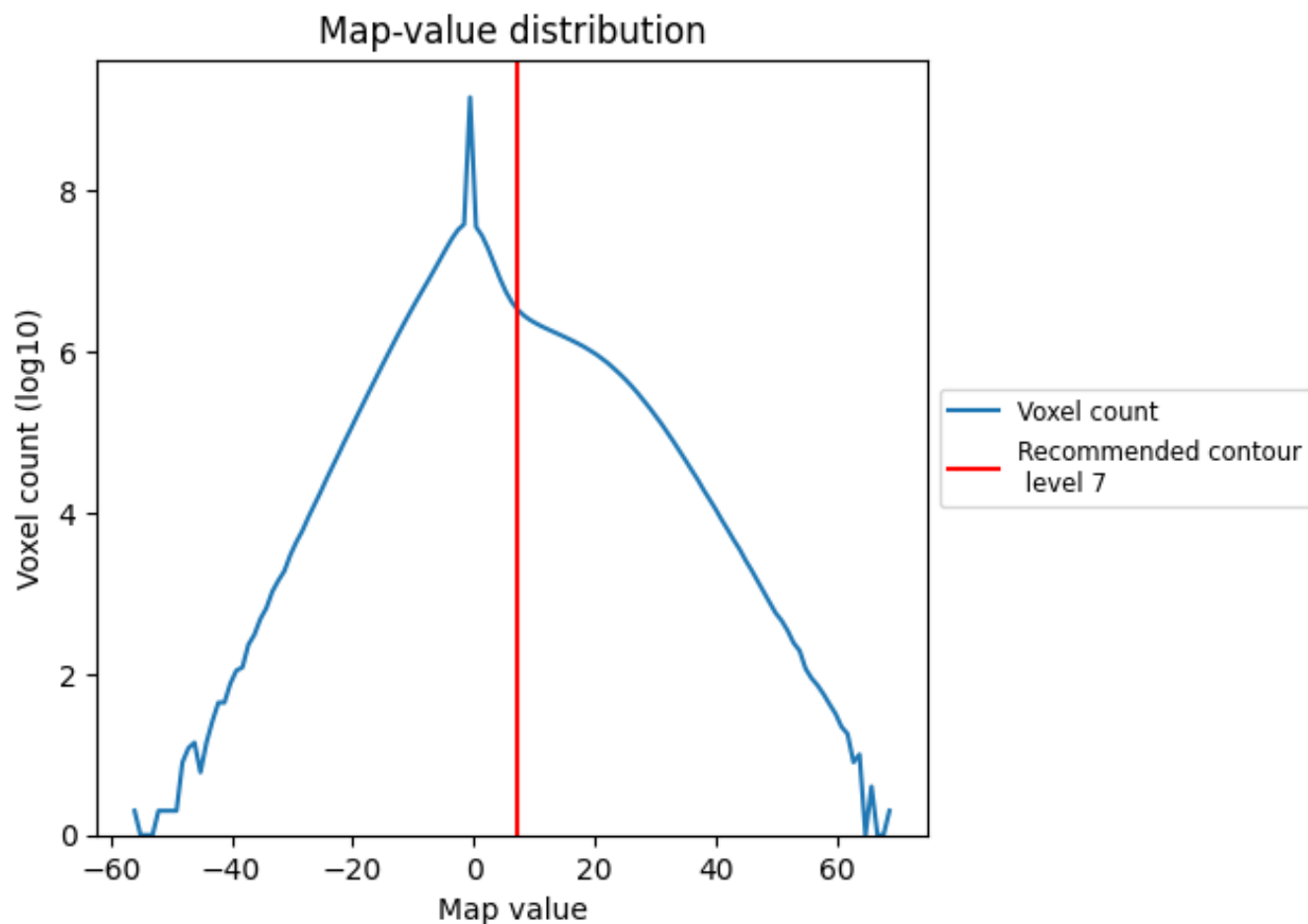
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

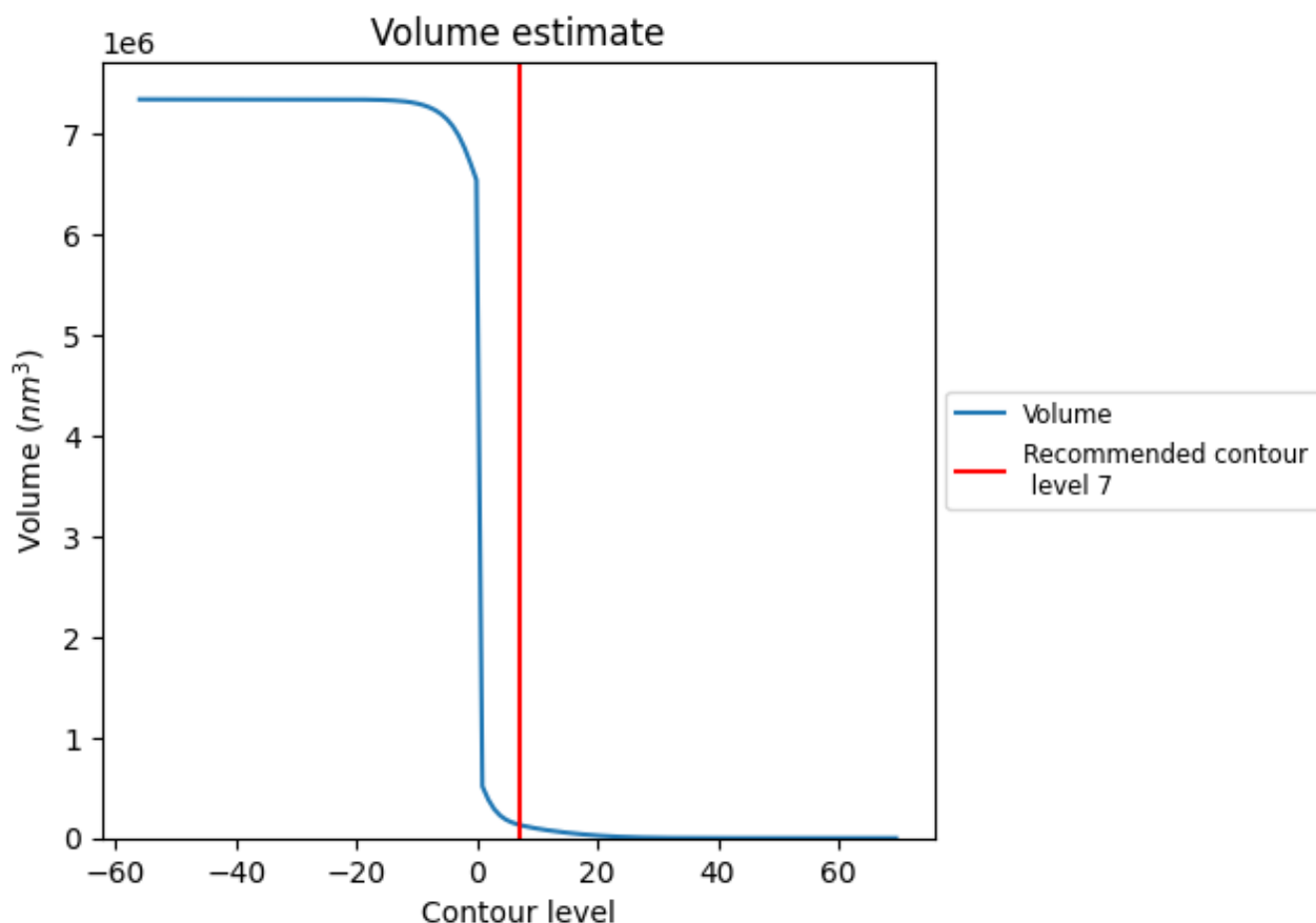
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

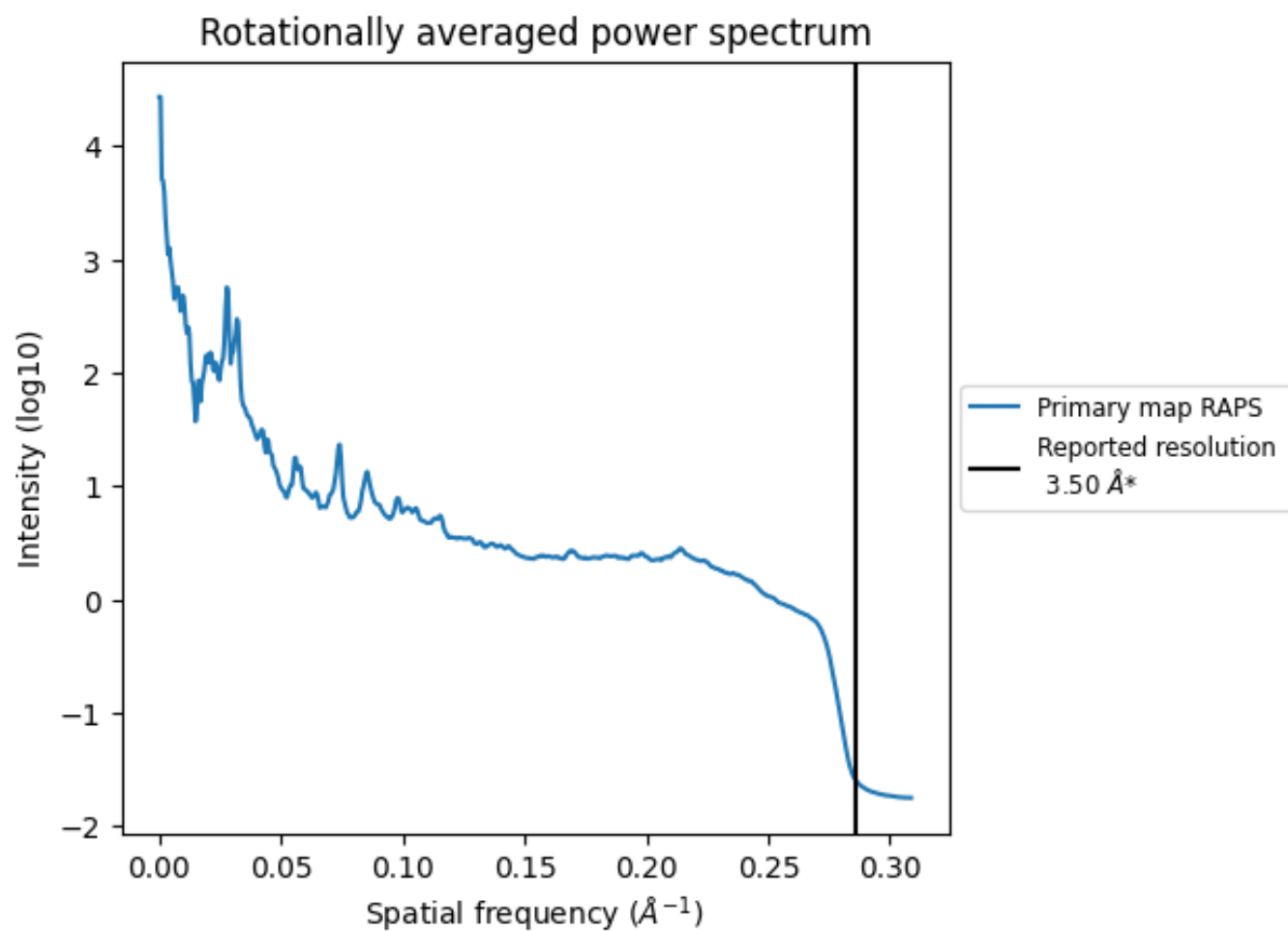
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 132822 nm³; this corresponds to an approximate mass of 119981 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.286 Å⁻¹

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

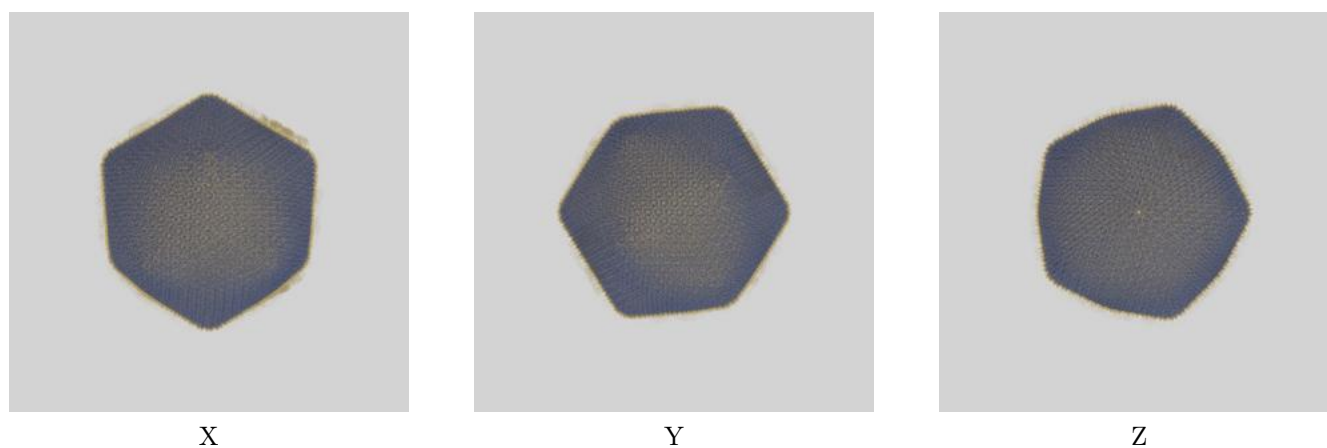
This section contains information regarding the fit between EMDB map EMD-0436 and PDB model 6NCL. Per-residue inclusion information can be found in section 3 on page 15.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

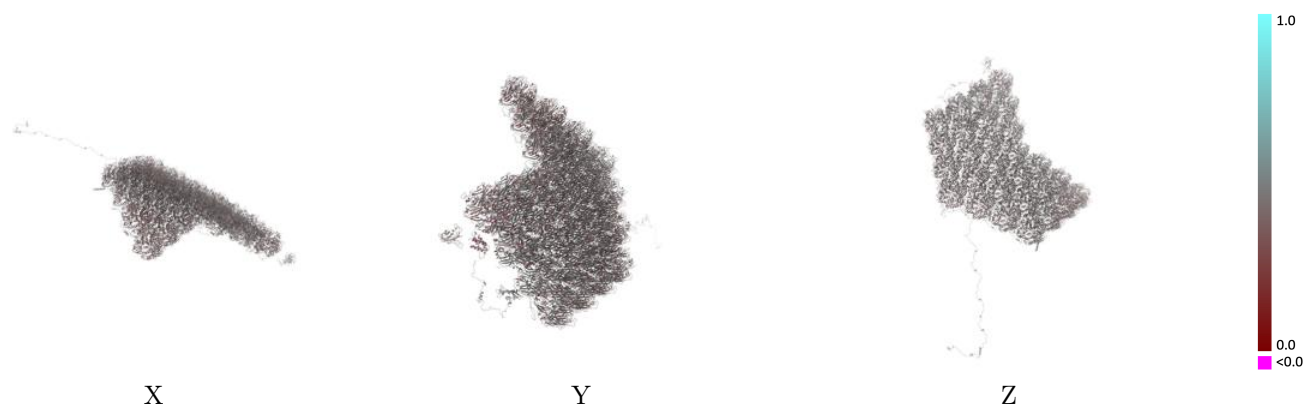


9.1.2 Map-model assembly overlay [i](#)



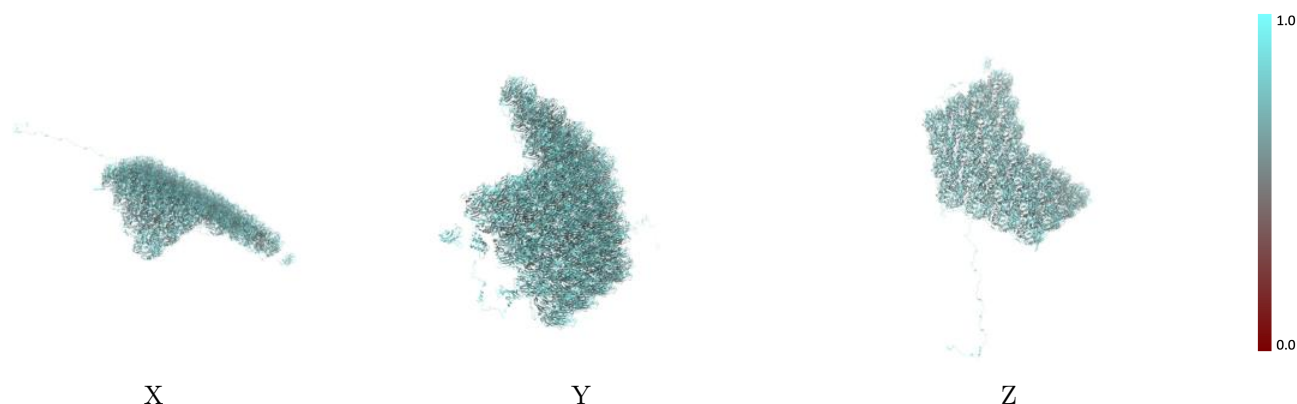
The images above show the 3D surface view of the map at the recommended contour level 7.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



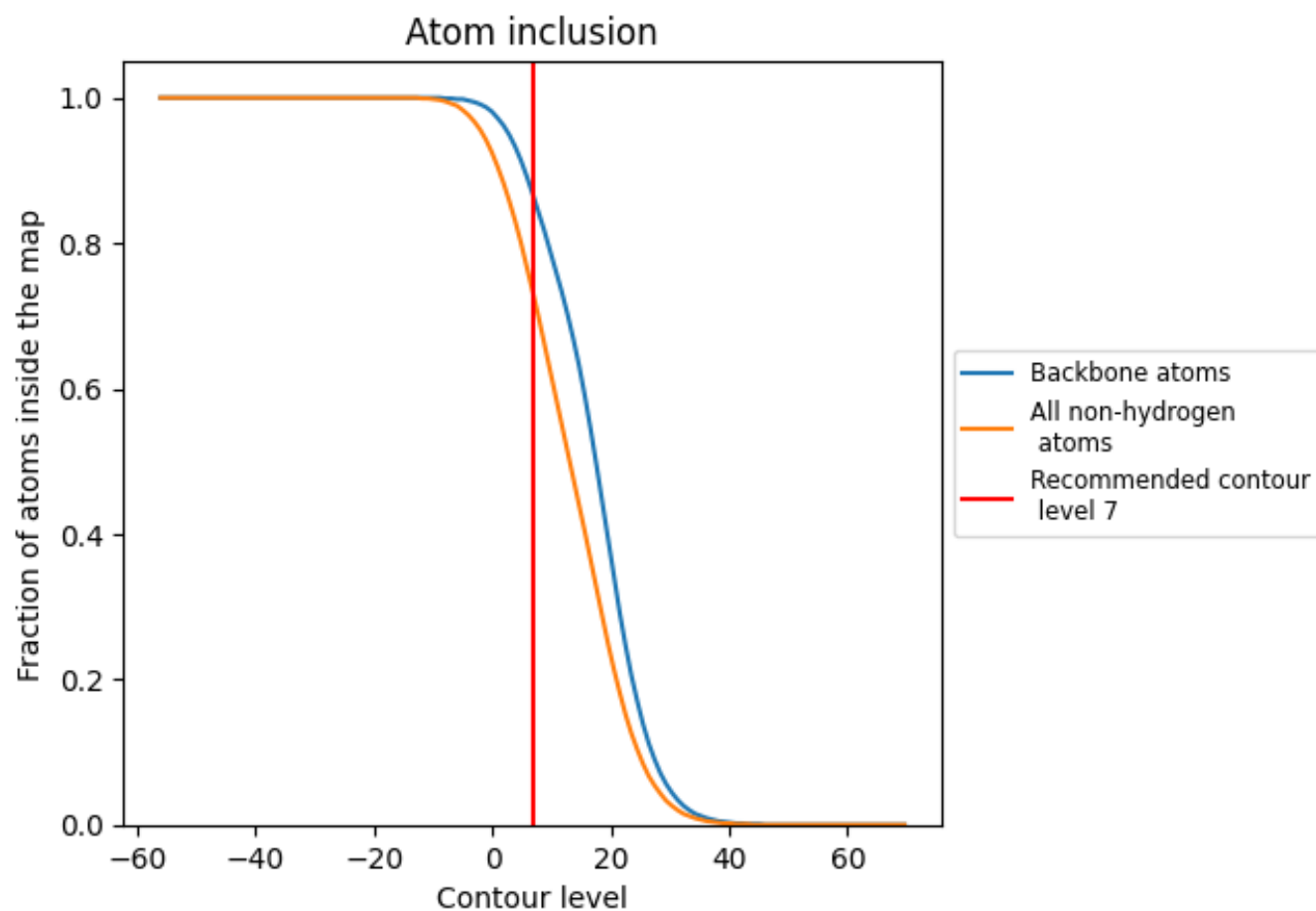
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (7).

9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 73% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7270	 0.4260
a0	 0.6990	 0.3870
a1	 0.7430	 0.4520
a2	 0.7520	 0.4690
a3	 0.7740	 0.4660
a4	 0.7370	 0.4130
a5	 0.7560	 0.4520
a6	 0.7510	 0.4230
a7	 0.8390	 0.4030
a8	 0.7430	 0.4120
a9	 0.8210	 0.4770
b0	 0.8250	 0.4480
b1	 0.8670	 0.4970
b2	 0.8080	 0.4730
b3	 0.8160	 0.4540
b4	 0.7330	 0.4840
b5	 0.7100	 0.4780
b6	 0.7920	 0.4610
b7	 0.8240	 0.4850
b8	 0.8530	 0.4860
c0	 0.8080	 0.4950
c1	 0.8390	 0.4690
c2	 0.8360	 0.4500
c3	 0.8330	 0.4630
c4	 0.8590	 0.4730
c5	 0.8900	 0.4560
c6	 0.8330	 0.4740
c7	 0.8100	 0.4860
c8	 0.7480	 0.4550
c9	 0.8100	 0.4130
d0	 0.6890	 0.4130
d1	 0.6790	 0.4230
d2	 0.7230	 0.4280
d3	 0.7370	 0.4290
d4	 0.7220	 0.4340



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Chain	Atom inclusion	Q-score
d5	 0.7240	 0.4390
d6	 0.7220	 0.4290
d7	 0.7260	 0.4240
d8	 0.7650	 0.4330
d9	 0.7320	 0.4300
e0	 0.7020	 0.4270
e1	 0.7160	 0.4160
e2	 0.7200	 0.4010
e3	 0.6440	 0.3880
e4	 0.7290	 0.4290
e5	 0.7570	 0.4330
e6	 0.7520	 0.4280
e7	 0.7420	 0.4230
e8	 0.7000	 0.4200
e9	 0.7400	 0.4240
f0	 0.7190	 0.4230
f1	 0.7810	 0.4330
f2	 0.7220	 0.4340
f3	 0.7060	 0.4300
f4	 0.7100	 0.4270
f5	 0.6930	 0.4190
f6	 0.6930	 0.4060
f7	 0.7150	 0.4110
f8	 0.6520	 0.4110
f9	 0.7140	 0.4270
g0	 0.7320	 0.4350
g1	 0.7290	 0.4300
g2	 0.7260	 0.4330
g3	 0.7270	 0.4380
g4	 0.7200	 0.4300
g5	 0.7380	 0.4290
g6	 0.7300	 0.4290
g7	 0.7310	 0.4290
g8	 0.7240	 0.4250
g9	 0.6880	 0.4060
h0	 0.7060	 0.4050
h1	 0.6590	 0.3970
h2	 0.7600	 0.4350
h3	 0.7410	 0.4310
h4	 0.7490	 0.4300
h5	 0.7430	 0.4310
h6	 0.7420	 0.4300

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Chain	Atom inclusion	Q-score
h7	 0.7150	 0.4220
h8	 0.7340	 0.4190
h9	 0.7170	 0.4160
i0	 0.7400	 0.4290
i1	 0.6980	 0.4220
i2	 0.7170	 0.4390
i3	 0.7280	 0.4270
i4	 0.7010	 0.4130
i5	 0.6870	 0.4080
i6	 0.6660	 0.4130
i7	 0.7020	 0.4300
i8	 0.7510	 0.4310
i9	 0.7290	 0.4260
j0	 0.7350	 0.4310
j1	 0.7120	 0.4310
j2	 0.7530	 0.4340
j3	 0.7640	 0.4290
j4	 0.7510	 0.4290
j5	 0.7620	 0.4310
j6	 0.7470	 0.4340
j7	 0.6920	 0.4140
j8	 0.7140	 0.4080
j9	 0.6600	 0.3920
k0	 0.7470	 0.4270
k1	 0.7450	 0.4240
k2	 0.7370	 0.4250
k3	 0.7570	 0.4220
k4	 0.7570	 0.4340
k5	 0.7000	 0.4220
k6	 0.7400	 0.4210
k7	 0.7540	 0.4230
k8	 0.7370	 0.4300
k9	 0.7300	 0.4270
l0	 0.7110	 0.4320
l1	 0.7230	 0.4260
l2	 0.7320	 0.4150
l3	 0.6990	 0.4080
l4	 0.7500	 0.4140
l5	 0.8090	 0.4810