Full wwPDB EM Validation Report

Mar 9, 2026 – 11:04 PM UTC

PDB ID	:	7TBI / pdb_00007tbi
EMDB ID	:	EMD-10198
Title	:	Composite structure of the S. cerevisiae nuclear pore complex (NPC)
Authors	:	Petrovic, S.; Samanta, D.; Perriches, T.; Bley, C.J.; Thierbach, K.; Brown, B.; Nie, S.; Mobbs, G.W.; Stevens, T.A.; Liu, X.; Tomaleri, G.P.; Schaus, L.; Hoelz, A.
Deposited on	:	2021-12-22
Resolution	:	25.00 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 (i) symbol.

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

The following versions of software and data (see references (1)) were used in the production of this report:

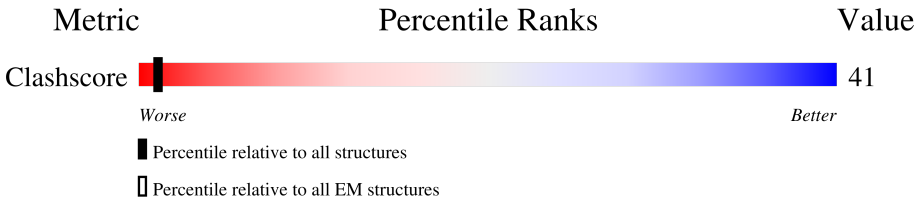
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13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

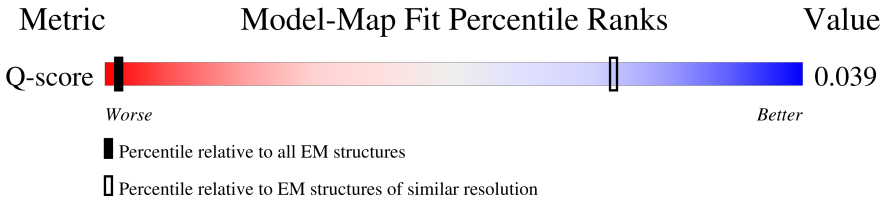
1 Overall quality at a glance

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

The reported resolution of this entry is 25.00 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	-
Q-score	-	25397	11 (25.00 - 25.00)

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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	1316	11% 87% 7% 7%
1	A2	1316	17% 87% 6% 6%
1	A3	1316	17% 87% 6% 6%
1	A4	1316	10% 87% 6% 7%
2	B1	14	57% 86% 14%
2	B2	14	86% 14%

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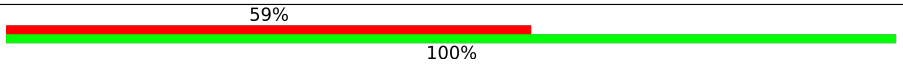
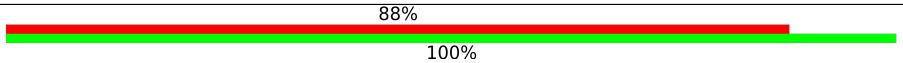
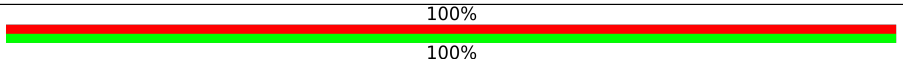
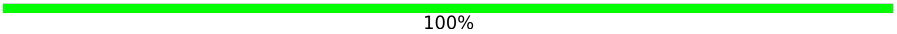
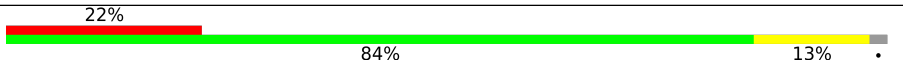
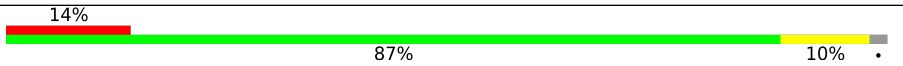
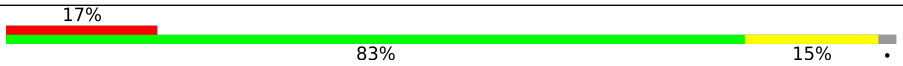
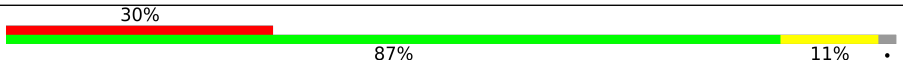
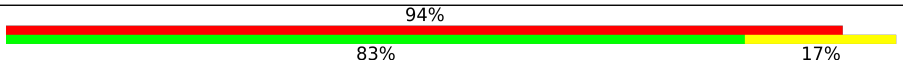
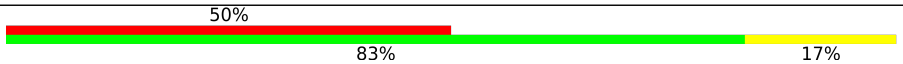
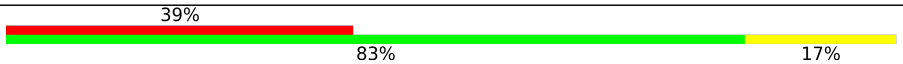
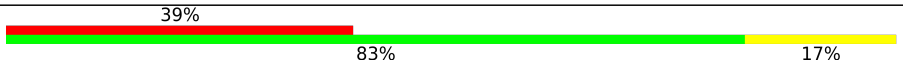
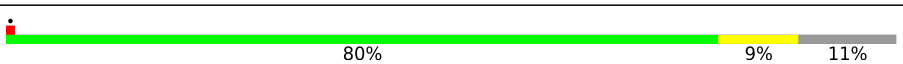
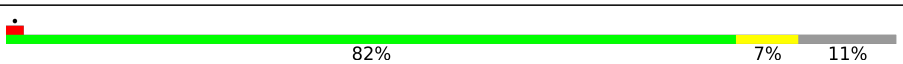
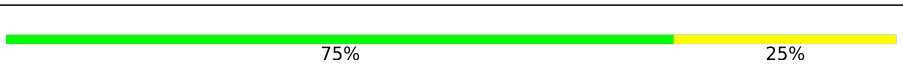
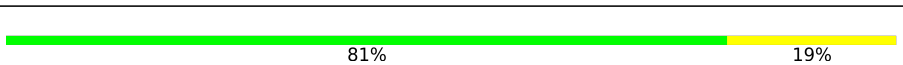
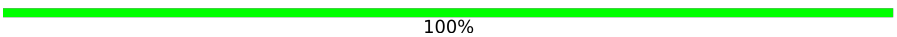
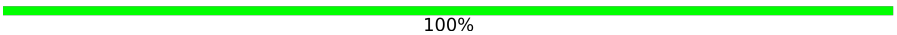
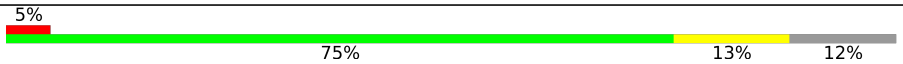
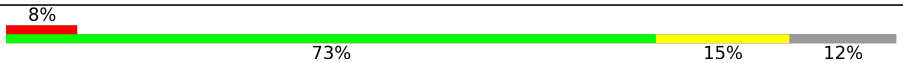
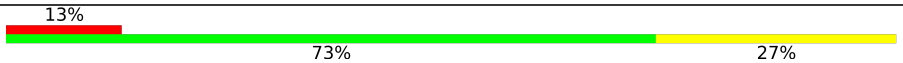
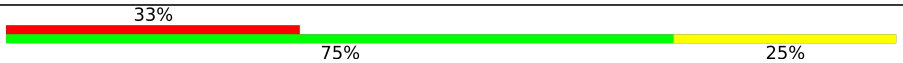
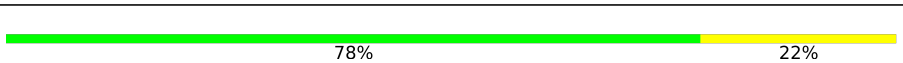
Mol	Chain	Length	Quality of chain
2	B3	14	
2	B4	14	
3	C1	17	
3	C2	17	
3	C3	17	
3	C4	17	
4	D1	720	
4	D2	720	
4	D3	720	
4	D4	720	
5	E1	18	
5	E2	18	
5	E3	18	
5	E4	18	
6	F1	1848	
6	F2	1848	
7	G1	53	
7	G2	53	
8	H1	13	
8	H2	13	
9	I1	1756	
9	I2	1756	
10	J1	63	
10	J2	63	
11	K1	9	

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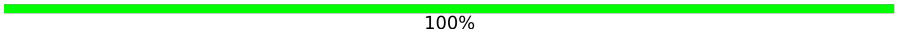
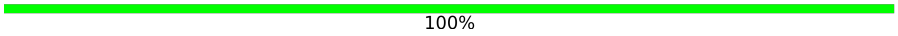
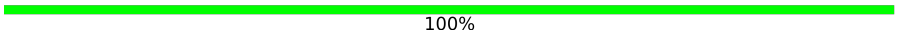
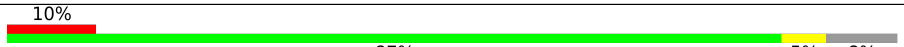
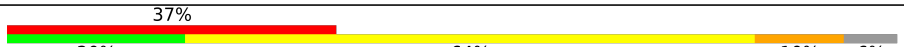
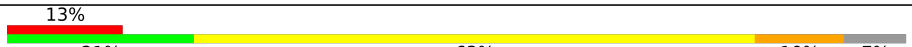
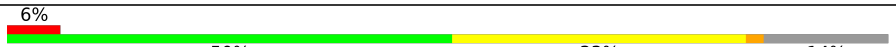
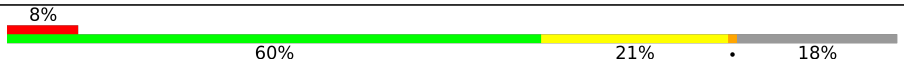
Mol	Chain	Length	Quality of chain
11	K2	9	
12	L1	2	
12	L2	2	
13	M1	183	
13	M2	183	
13	M3	183	
13	M4	183	
14	N1	222	
14	N2	222	
14	N3	222	
14	N4	222	
15	O1	241	
15	O2	241	
15	O3	241	
15	O4	241	
16	P1	40	
16	P2	40	
16	P3	40	
16	P4	40	
17	Q1	1100	
17	Q2	1100	
18	R1	720	
19	R2	726	
20	S1	621	
20	S2	621	

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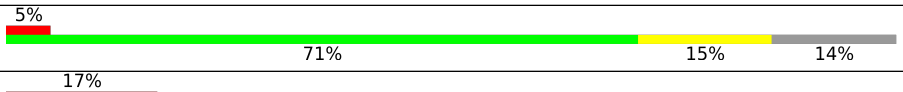
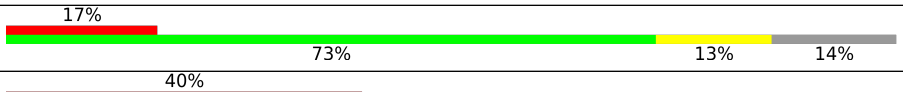
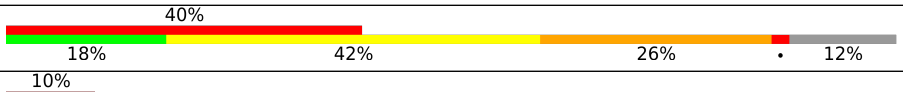
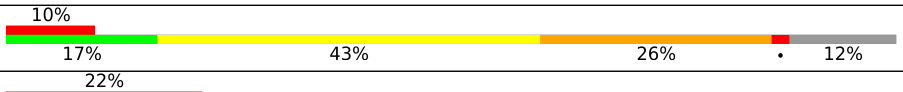
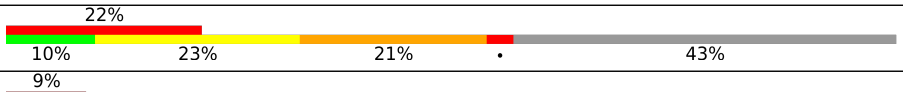
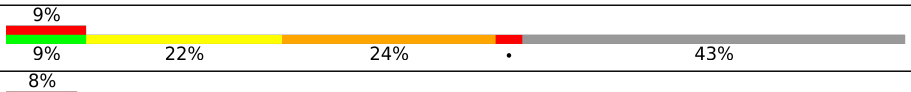
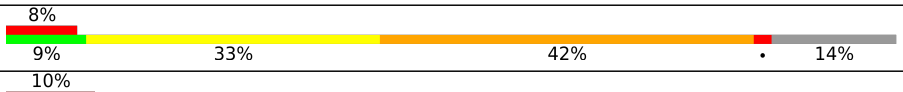
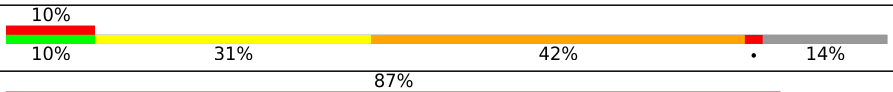
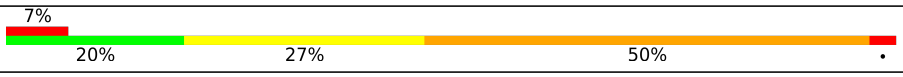
Mol	Chain	Length	Quality of chain
21	T1	286	
21	T2	286	
22	U1	346	
22	U2	346	
23	V1	698	
23	V2	698	
24	W1	1037	
24	W2	1037	
25	X1	187	
25	X2	187	
26	Y1	340	
26	Y2	340	
27	Z1	713	
27	Z2	713	
28	a1	146	
28	a2	146	
29	b1	86	
29	b2	86	

2 Entry composition

There are 29 unique types of molecules in this entry. The entry contains 221308 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 Nup157/Nup170.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A2	1231	Total	C	N	O	S	1	0
			9730	6152	1707	1843	28		
1	A3	1231	Total	C	N	O	S	1	0
			9730	6152	1707	1843	28		
1	A4	1227	Total	C	N	O	S	1	0
			9703	6135	1703	1838	27		
1	A1	1227	Total	C	N	O	S	1	0
			9703	6135	1703	1838	27		

- Molecule 2 is a protein called Nup53/Nup59 R3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
2	B2	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
2	B3	14	Total	C	N	O	S	0	0
			111	73	19	18	1		
2	B4	14	Total	C	N	O	S	0	0
			111	73	19	18	1		

- Molecule 3 is a protein called Nup145N/Nup100/Nup116 R3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C2	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
3	C3	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
3	C1	17	Total	C	N	O	S	0	0
			138	88	24	25	1		
3	C4	17	Total	C	N	O	S	0	0
			138	88	24	25	1		

- Molecule 4 is a protein called Nic96 SOL.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D1	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D2	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D3	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		
4	D4	703	Total	C	N	O	S	1	0
			5589	3520	999	1036	34		

- Molecule 5 is a protein called Nup53/Nup59 R2.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E1	18	Total	C	N	O	0	0
			137	88	22	27		
5	E2	18	Total	C	N	O	0	0
			137	88	22	27		
5	E3	18	Total	C	N	O	0	0
			137	88	22	27		
5	E4	18	Total	C	N	O	0	0
			137	88	22	27		

- Molecule 6 is a protein called Nup188.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F1	1641	Total	C	N	O	S	0	0
			12779	8190	2201	2333	55		
6	F2	1641	Total	C	N	O	S	0	0
			12779	8190	2201	2333	55		

- Molecule 7 is a protein called Nic96 R2.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G1	53	Total	C	N	O	S	0	0
			438	274	75	88	1		
7	G2	53	Total	C	N	O	S	0	0
			438	274	75	88	1		

- Molecule 8 is a protein called Nup145N/Nup100/Nup116 R2.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	H1	13	Total	C	N	O	0	0
			94	58	15	21		

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Mol	Chain	Residues	Atoms				AltConf	Trace
8	H2	13	Total 94	C 58	N 15	O 21	0	0

- Molecule 9 is a protein called Nup192.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I1	1542	Total 12307	C 7880	N 2084	O 2278	S 65	0	0
9	I2	1542	Total 12307	C 7880	N 2084	O 2278	S 65	0	0

- Molecule 10 is a protein called Nic96 R2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J1	63	Total 504	C 315	N 86	O 102	S 1	0	0
10	J2	63	Total 504	C 315	N 86	O 102	S 1	0	0

- Molecule 11 is a protein called Nup145N/Nup100/Nup116 R1.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K1	9	Total 73	C 51	N 10	O 11	S 1	0	0
11	K2	9	Total 73	C 51	N 10	O 11	S 1	0	0

- Molecule 12 is a protein called Nup53/Nup59 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
12	L1	2	Total 15	C 11	N 2	O 2	0	0
12	L2	2	Total 15	C 11	N 2	O 2	0	0

- Molecule 13 is a protein called Nsp1.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M1	169	Total 1372	C 855	N 235	O 276	S 6	0	0
13	M2	169	Total 1372	C 855	N 235	O 276	S 6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	M3	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		
13	M4	169	Total	C	N	O	S	0	0
			1372	855	235	276	6		

- Molecule 14 is a protein called Nup57.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N1	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
14	N2	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
14	N3	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		
14	N4	180	Total	C	N	O	S	0	0
			1401	876	236	282	7		

- Molecule 15 is a protein called Nup49.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O1	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O2	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O3	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		
15	O4	241	Total	C	N	O	S	0	0
			1971	1239	360	368	4		

- Molecule 16 is a protein called Nic96 R1.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P1	40	Total	C	N	O	0	0
			311	195	59	57		
16	P2	40	Total	C	N	O	0	0
			311	195	59	57		
16	P3	40	Total	C	N	O	0	0
			311	195	59	57		
16	P4	40	Total	C	N	O	0	0
			311	195	59	57		

- Molecule 17 is a protein called Nup133.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Q1	1031	Total	C	N	O	S	0	0
			8392	5405	1357	1606	24		
17	Q2	1027	Total	C	N	O	S	0	0
			8359	5382	1352	1601	24		

- Molecule 18 is a protein called Nup84.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R1	669	Total	C	N	O	S	0	0
			5448	3496	892	1043	17		

- Molecule 19 is a protein called Nup84.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	R2	622	Total	C	N	O	S	0	0
			5069	3262	822	970	15		

- Molecule 20 is a protein called Nup145C.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	S1	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		
20	S2	511	Total	C	N	O	S	0	0
			3805	2417	648	730	10		

- Molecule 21 is a protein called Sec13.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	T1	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		
21	T2	274	Total	C	N	O	S	0	0
			2160	1379	369	409	3		

- Molecule 22 is a protein called Seh1.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	U1	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		
22	U2	307	Total	C	N	O	S	0	0
			2438	1543	422	462	11		

- Molecule 23 is a protein called Nup85.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	V1	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		
23	V2	620	Total	C	N	O	S	0	0
			4535	2884	753	877	21		

- Molecule 24 is a protein called Nup120.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	W1	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		
24	W2	896	Total	C	N	O	S	0	0
			6622	4232	1099	1275	16		

- Molecule 25 is a protein called Nsp1.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	X1	164	Total	C	N	O	S	0	0
			1321	817	221	282	1		
25	X2	164	Total	C	N	O	S	0	0
			1321	817	221	282	1		

- Molecule 26 is a protein called Nup159.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Y1	195	Total	C	N	O	S	0	0
			1590	1013	269	300	8		
26	Y2	195	Total	C	N	O	S	0	0
			1590	1013	269	300	8		

- Molecule 27 is a protein called Nup82.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	Z1	610	Total	C	N	O	S	0	0
			4990	3182	826	965	17		
27	Z2	610	Total	C	N	O	S	0	0
			4990	3182	826	965	17		

- Molecule 28 is a protein called Nup116 CTD.

Mol	Chain	Residues	Atoms						AltConf	Trace
28	a1	146	Total	C	N	O	S	Se	0	0
			1165	745	204	212	3	1		

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Mol	Chain	Residues	Atoms						AltConf	Trace
28	a2	146	Total 1165	C 745	N 204	O 212	S 3	Se 1	0	0

- Molecule 29 is a protein called Dyn2.

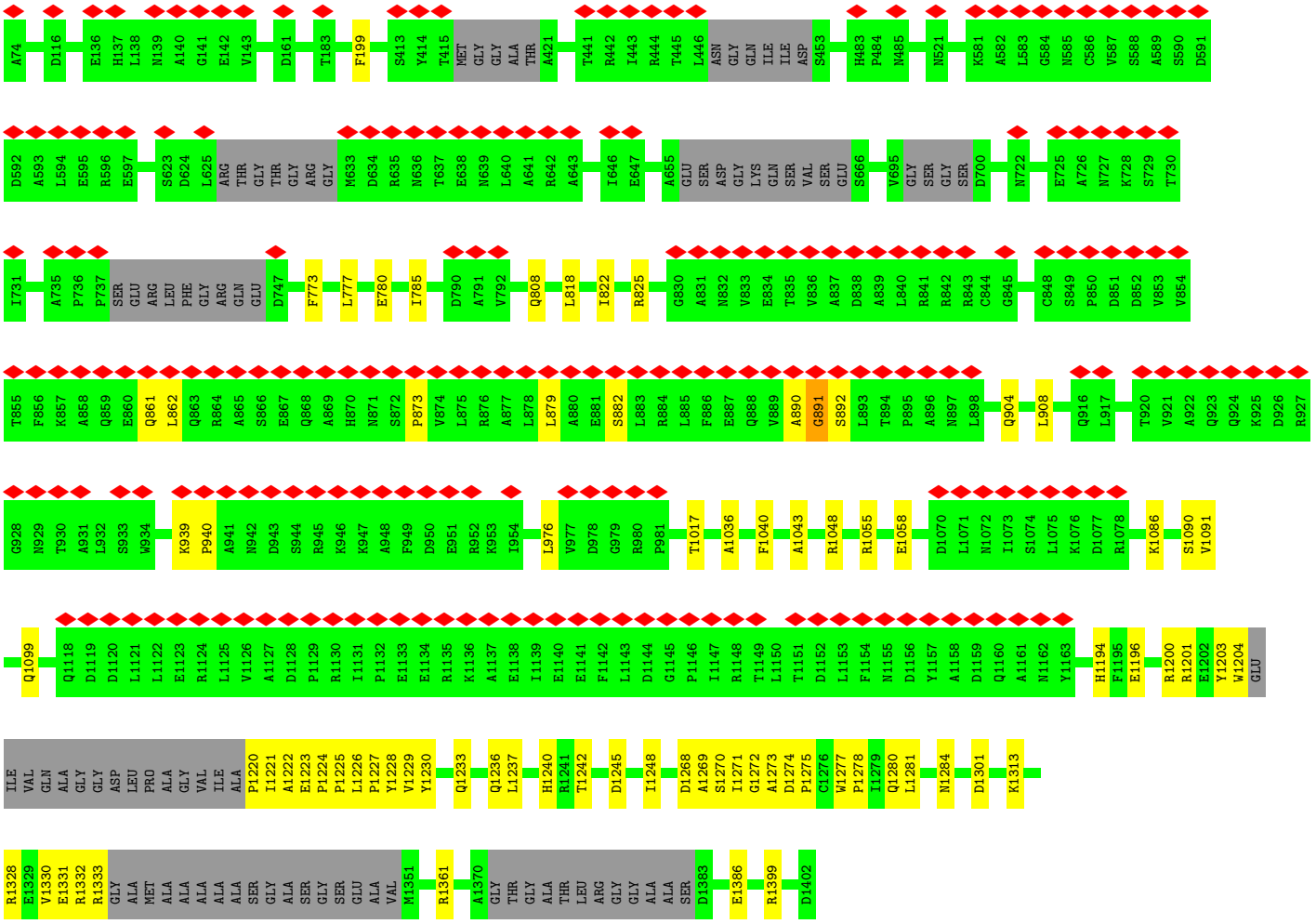
Mol	Chain	Residues	Atoms				AltConf	Trace
29	b1	86	Total 691	C 453	N 111	O 127	0	0
29	b2	86	Total 691	C 453	N 111	O 127	0	0

3 Residue-property plots (i)

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

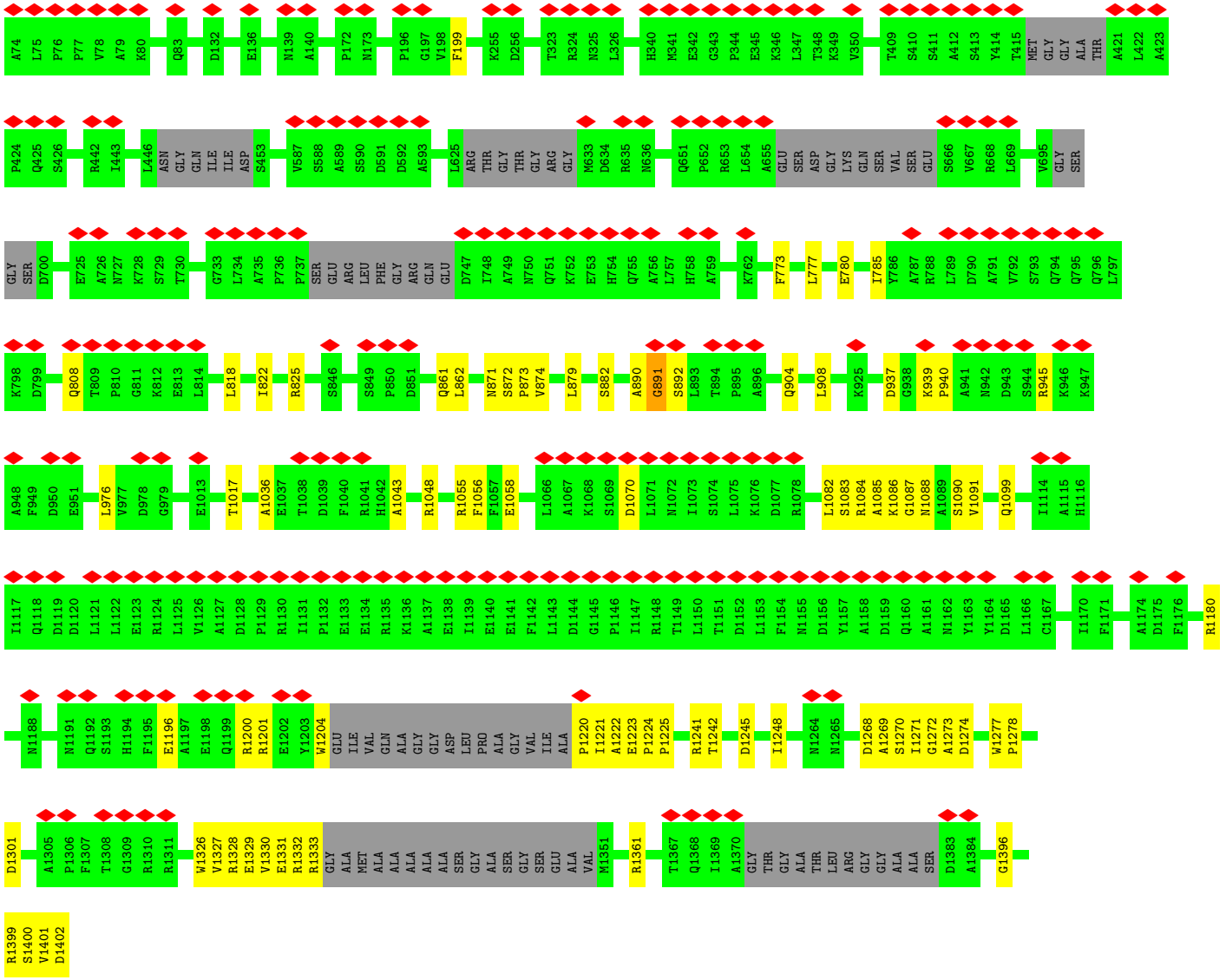
• Molecule 1: Nup157/Nup170

Chain A2:



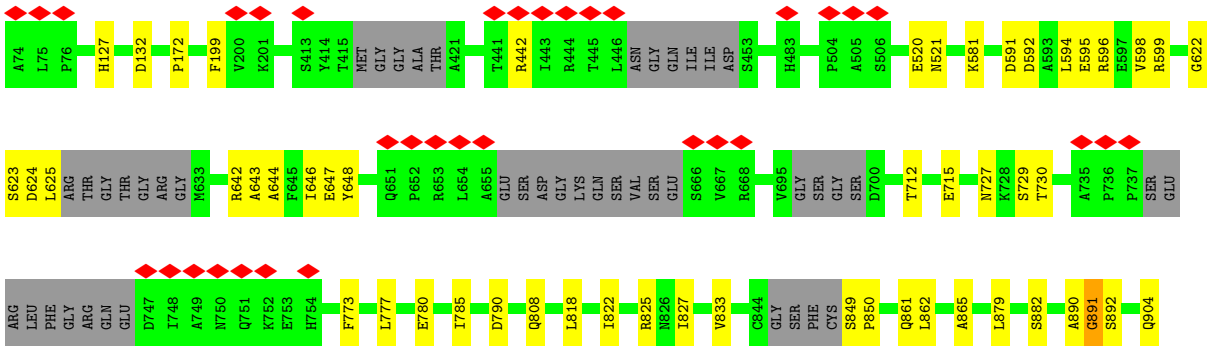
• Molecule 1: Nup157/Nup170

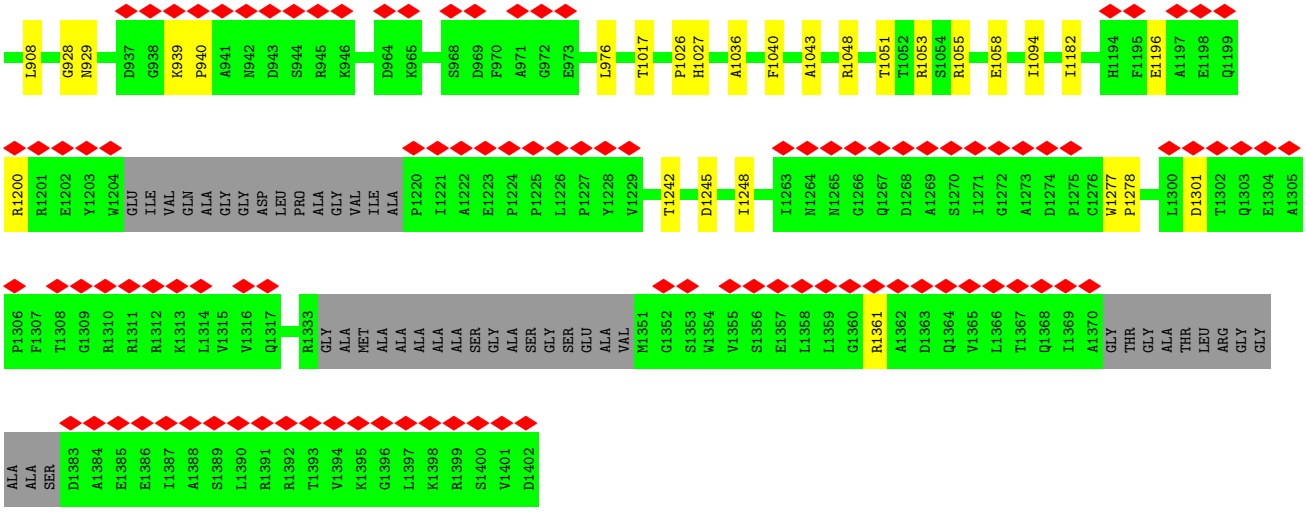
Chain A3:



• Molecule 1: Nup157/Nup170

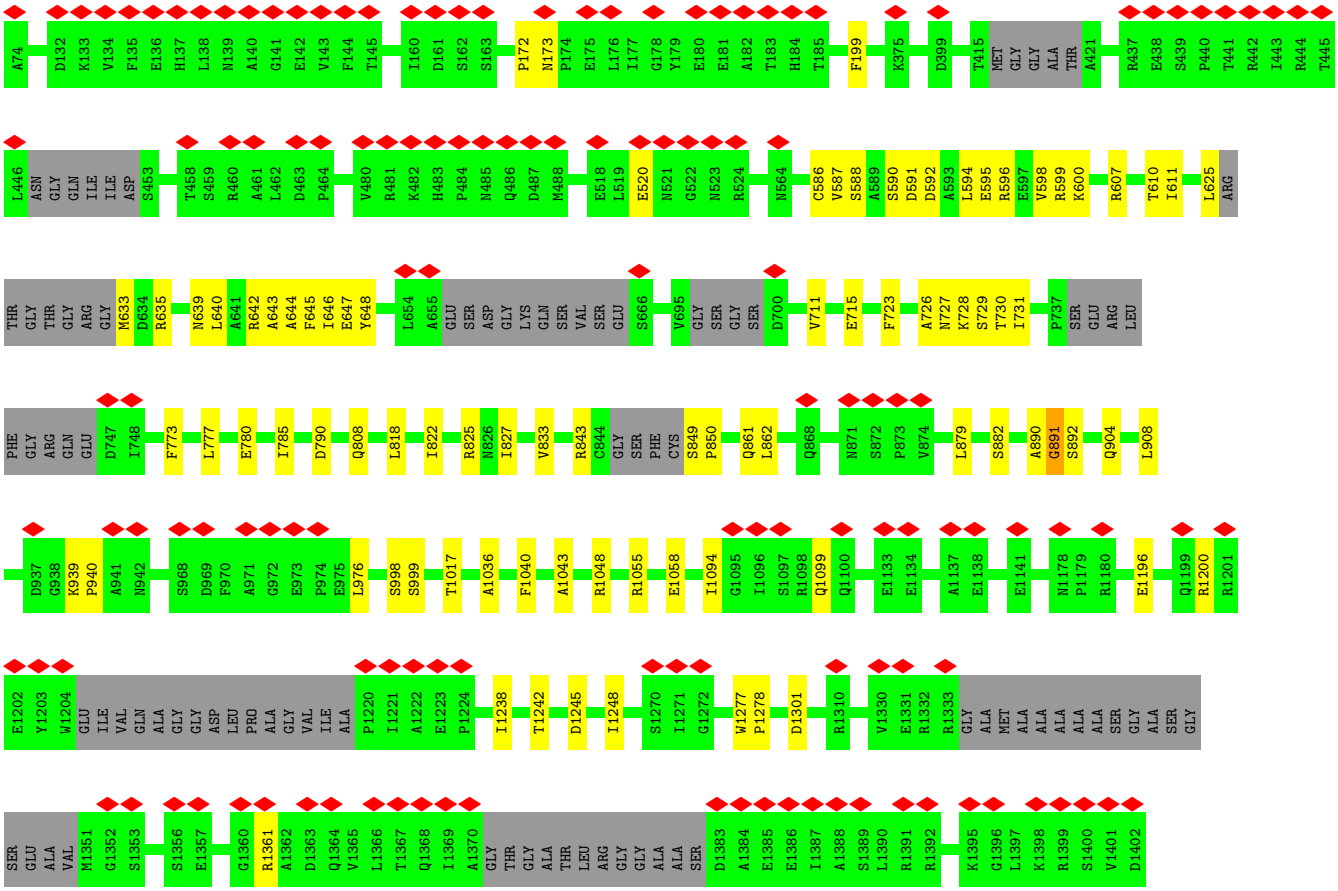
Chain A4:





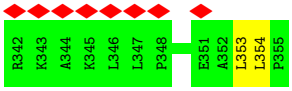
• Molecule 1: Nup157/Nup170

Chain A1:



• Molecule 2: Nup53/Nup59 R3

Chain B1:



• Molecule 2: Nup53/Nup59 R3

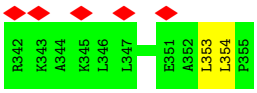
Chain B2:

• Molecule 2: Nup53/Nup59 R3

Chain B3:

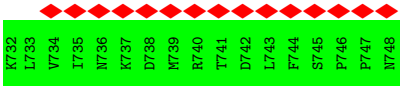
• Molecule 2: Nup53/Nup59 R3

Chain B4:



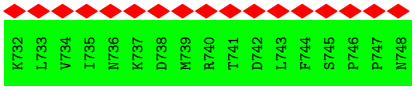
• Molecule 3: Nup145N/Nup100/Nup116 R3

Chain C2:



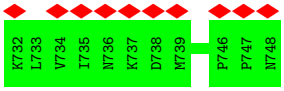
• Molecule 3: Nup145N/Nup100/Nup116 R3

Chain C3:



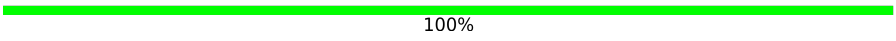
• Molecule 3: Nup145N/Nup100/Nup116 R3

Chain C1:



• Molecule 3: Nup145N/Nup100/Nup116 R3

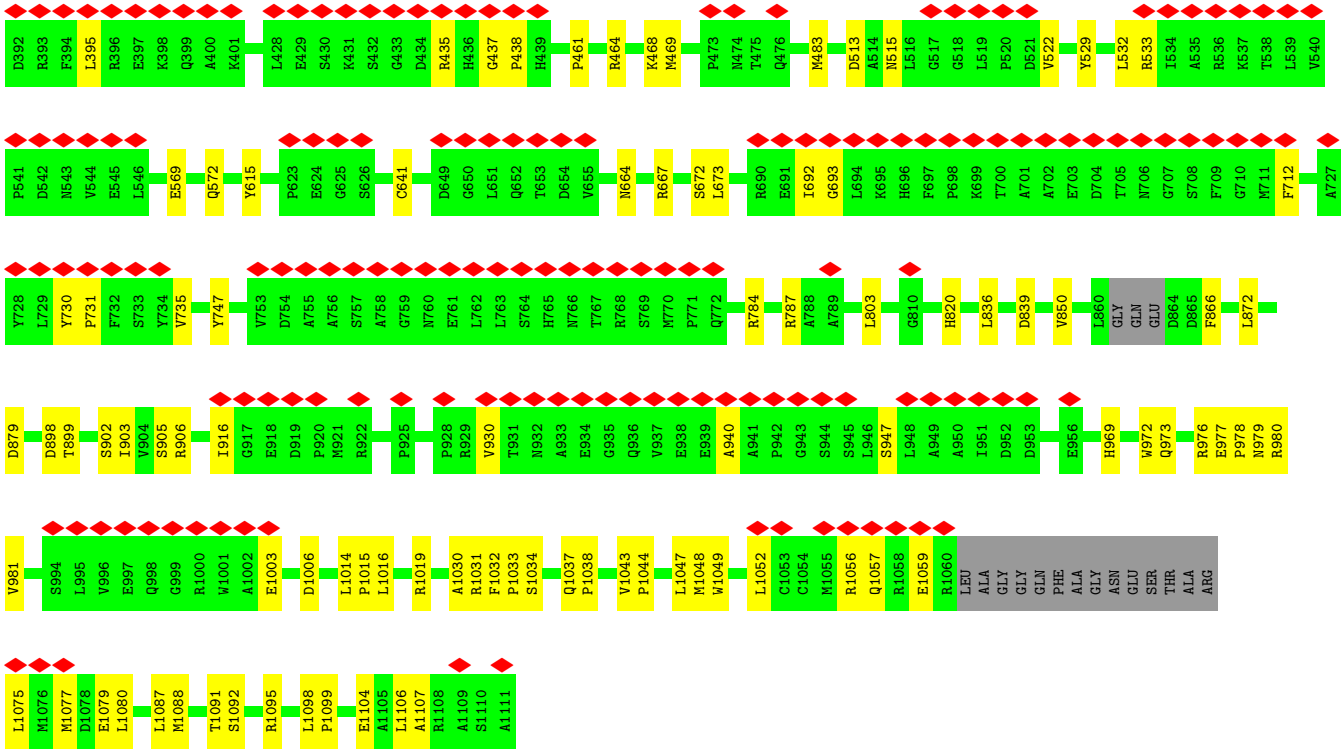
Chain C4:



There are no outlier residues recorded for this chain.

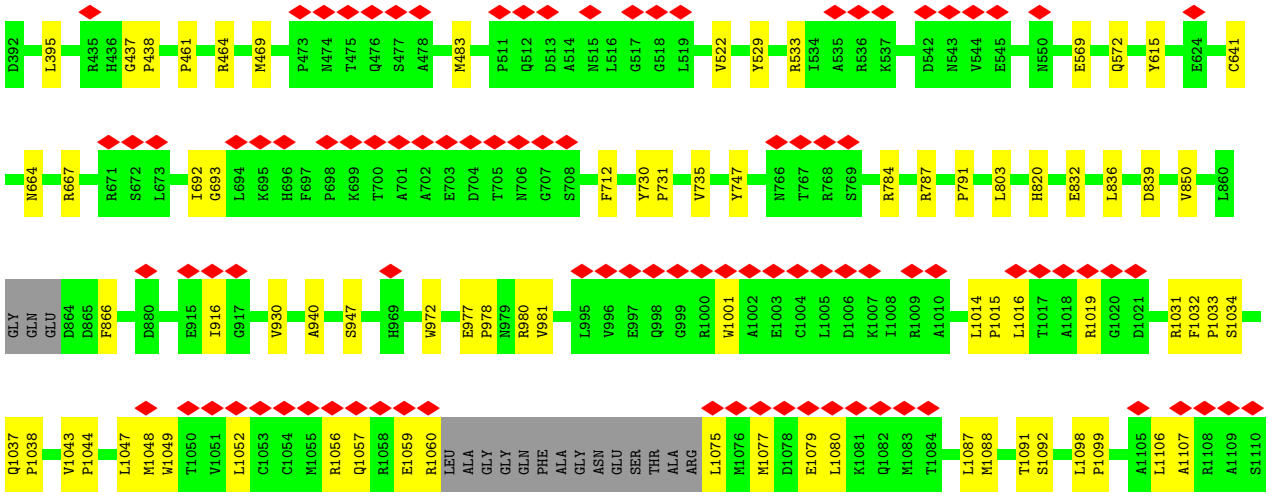
• Molecule 4: Nic96 SOL

Chain D1:



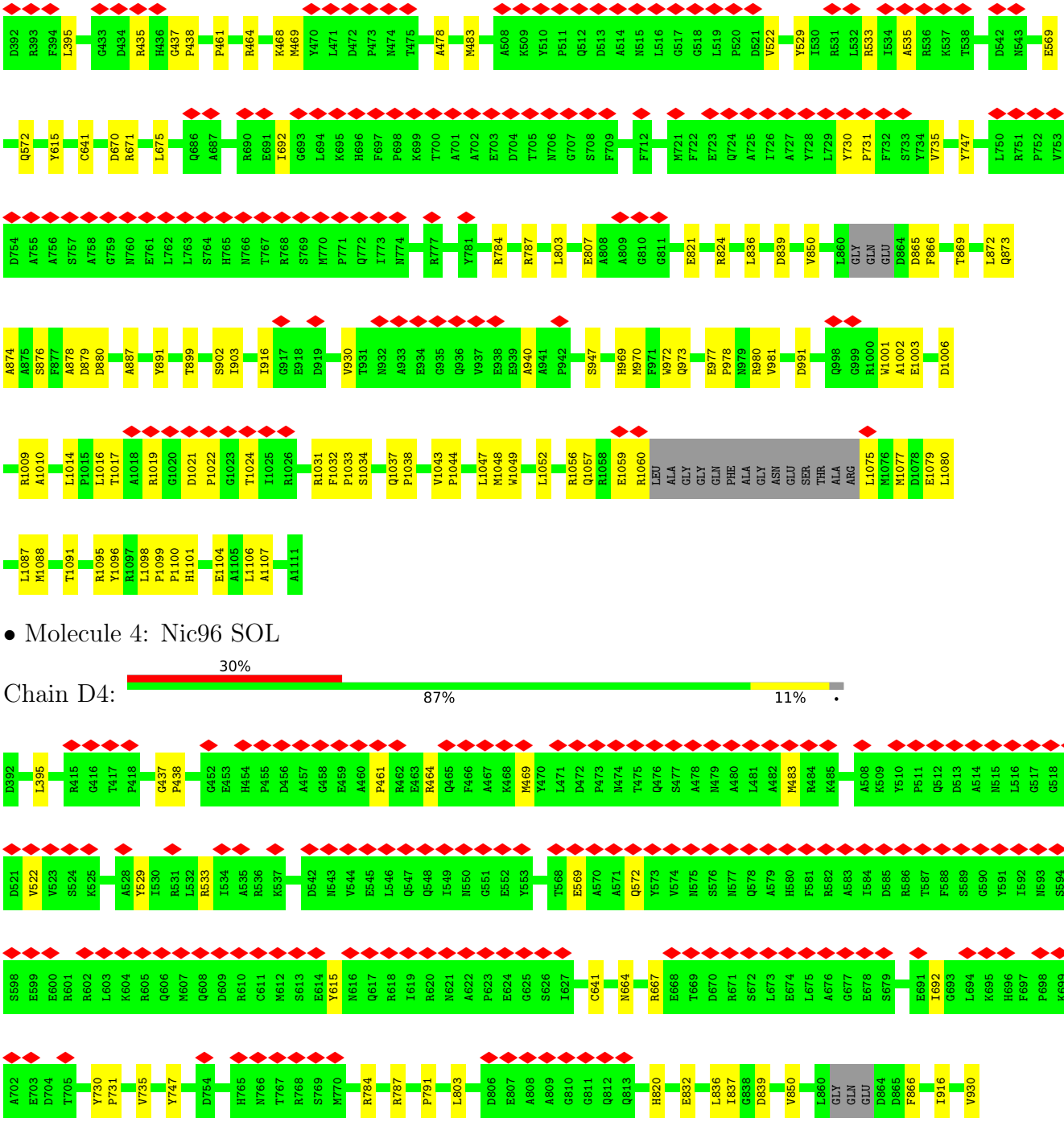
• Molecule 4: Nic96 SOL

Chain D2:



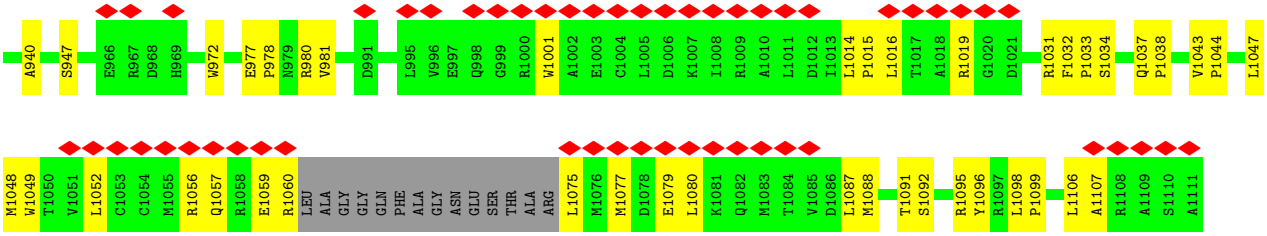
• Molecule 4: Nic96 SOL

Chain D3:

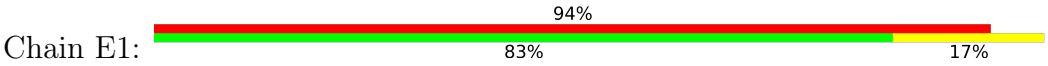


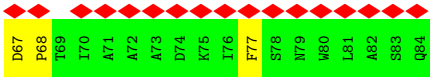
• Molecule 4: Nic96 SOL

Chain D4:

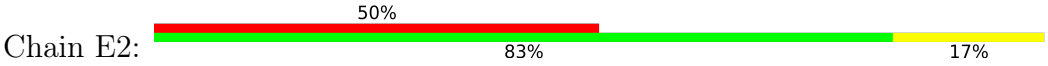


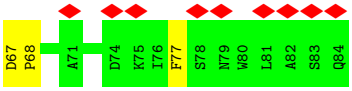
• Molecule 5: Nup53/Nup59 R2



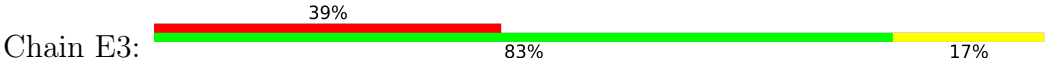


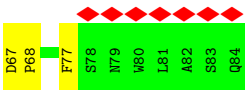
• Molecule 5: Nup53/Nup59 R2



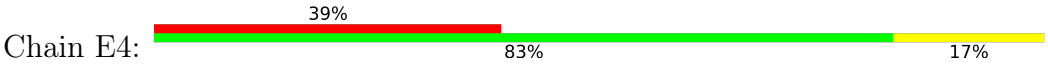


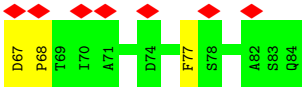
• Molecule 5: Nup53/Nup59 R2



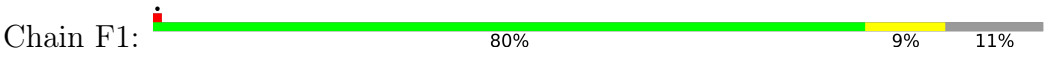


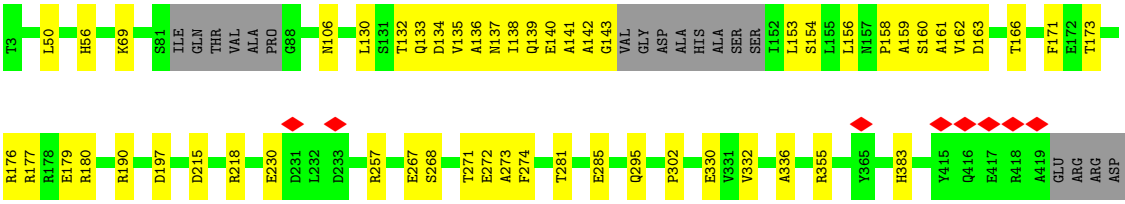
• Molecule 5: Nup53/Nup59 R2

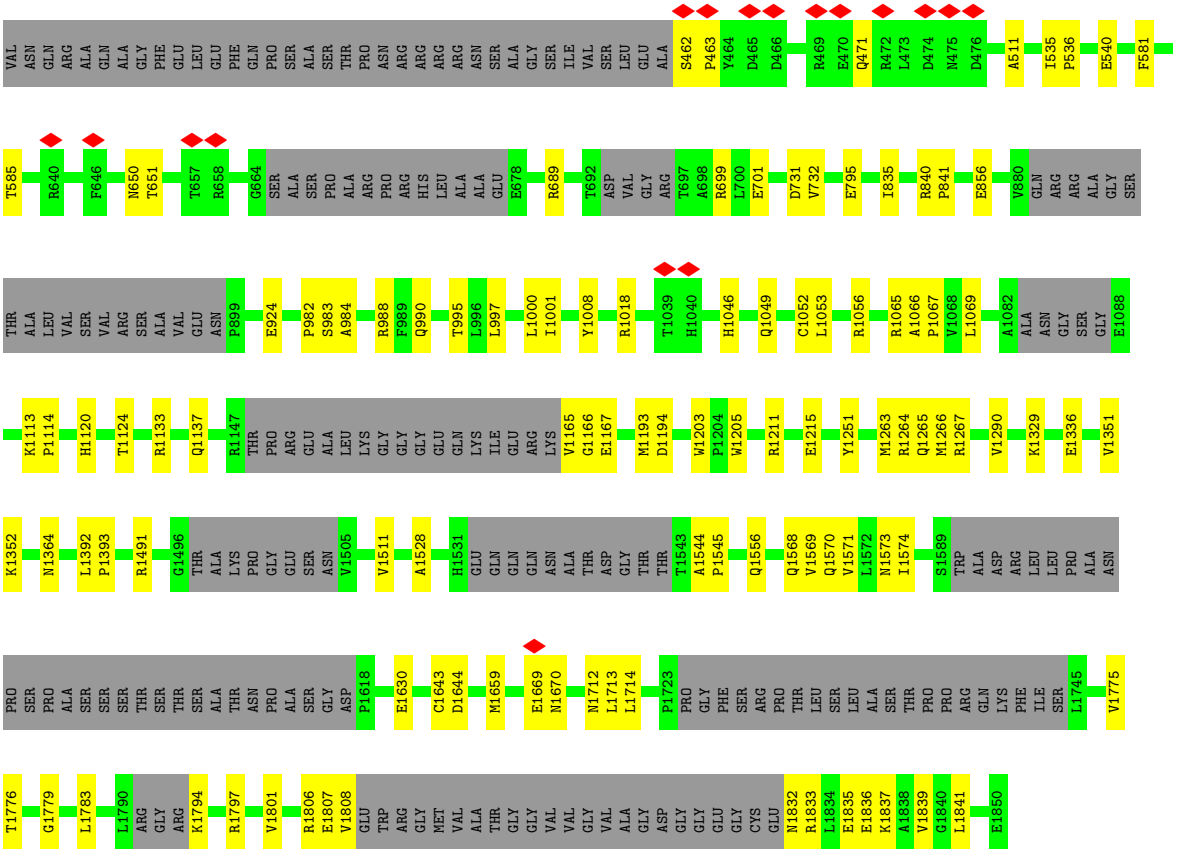




• Molecule 6: Nup188

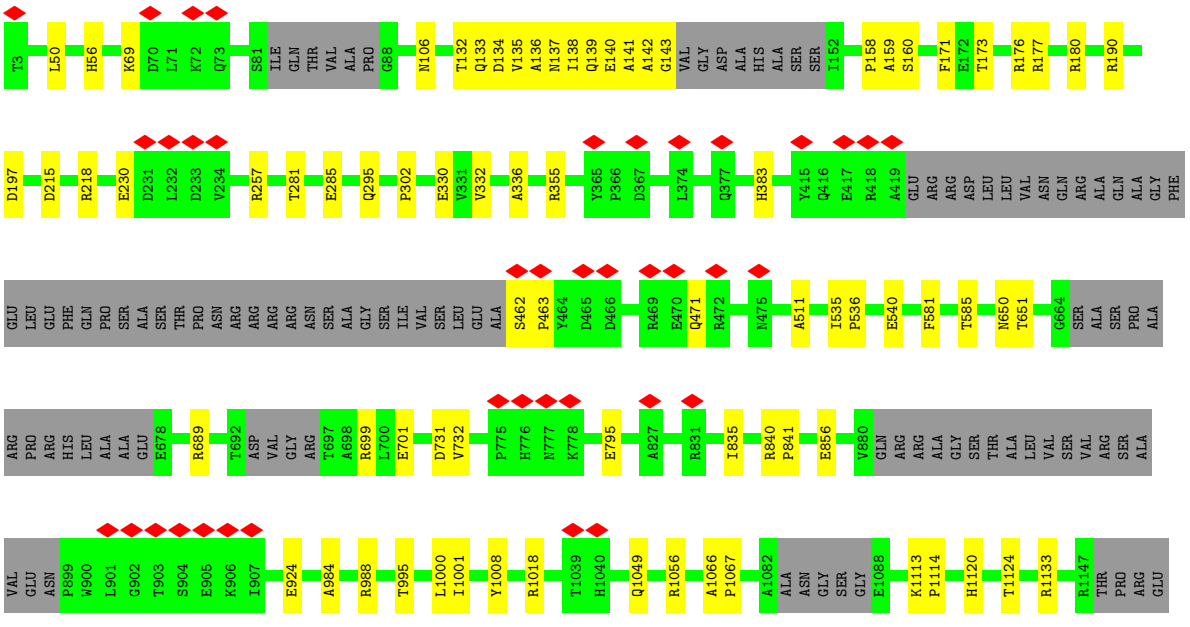


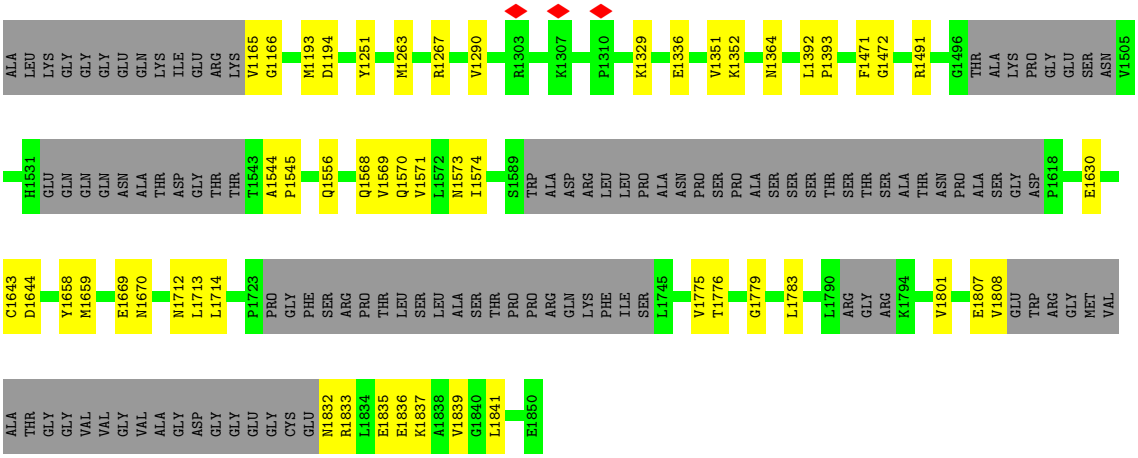




• Molecule 6: Nup188

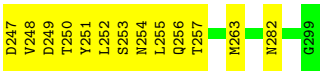
Chain F2:





• Molecule 7: Nic96 R2

Chain G1:



• Molecule 7: Nic96 R2

Chain G2:

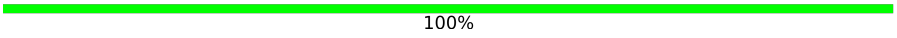
• Molecule 8: Nup145N/Nup100/Nup116 R2

Chain H1:

There are no outlier residues recorded for this chain.

• Molecule 8: Nup145N/Nup100/Nup116 R2

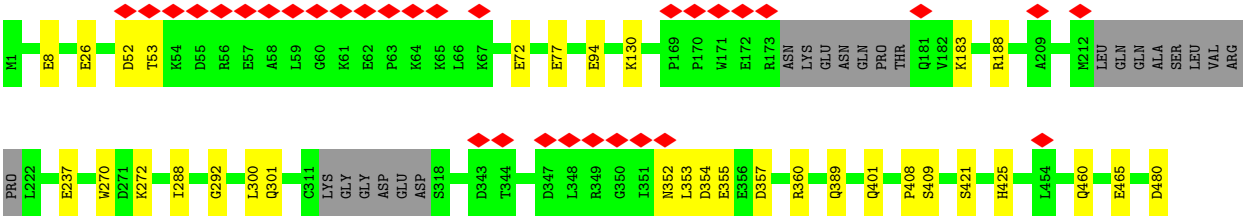
Chain H2:

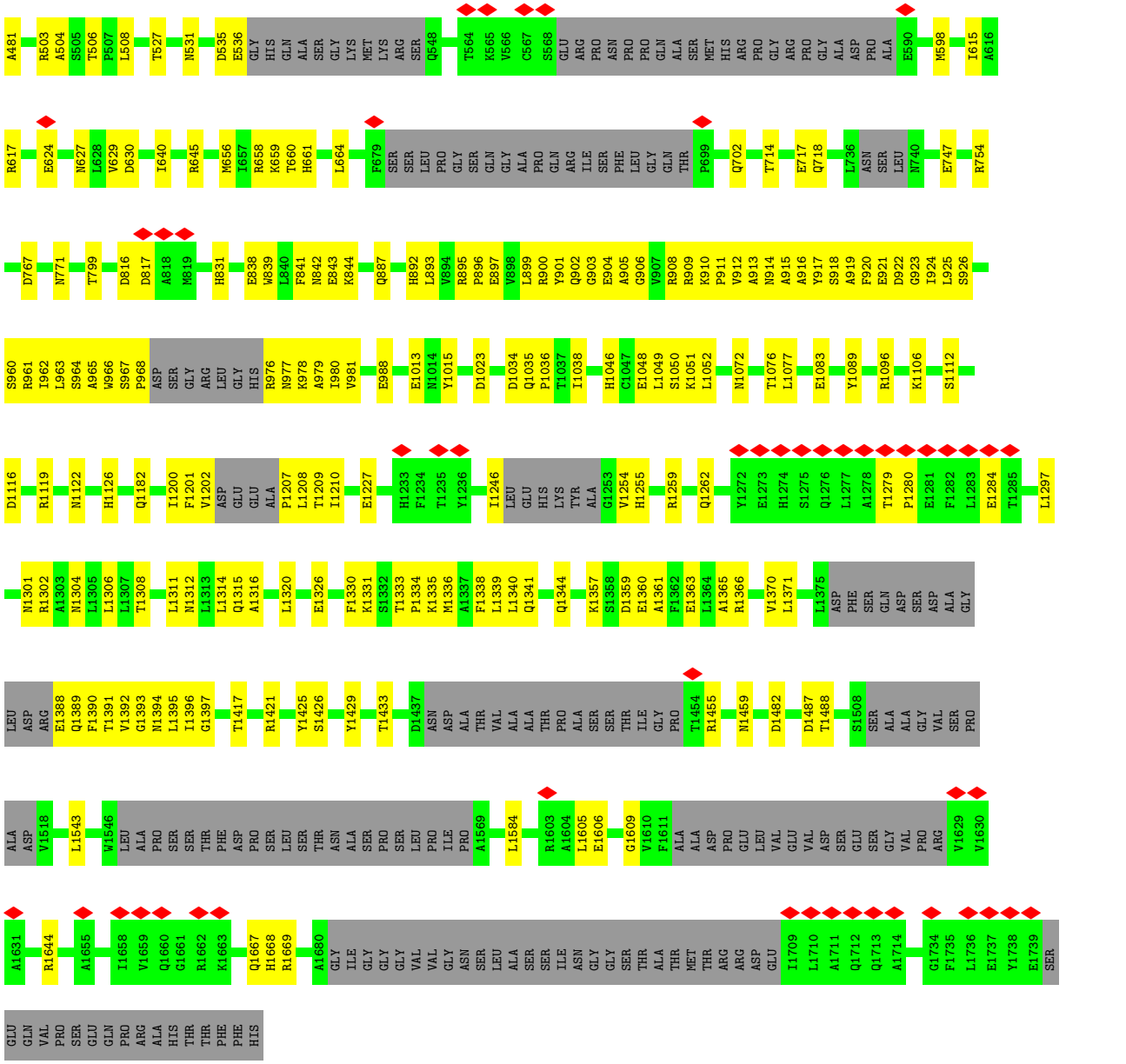


There are no outlier residues recorded for this chain.

• Molecule 9: Nup192

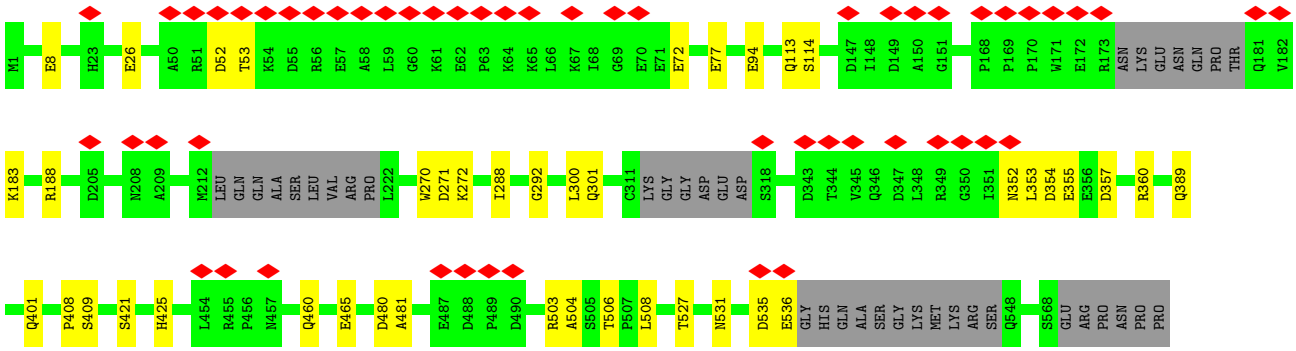
Chain I1:

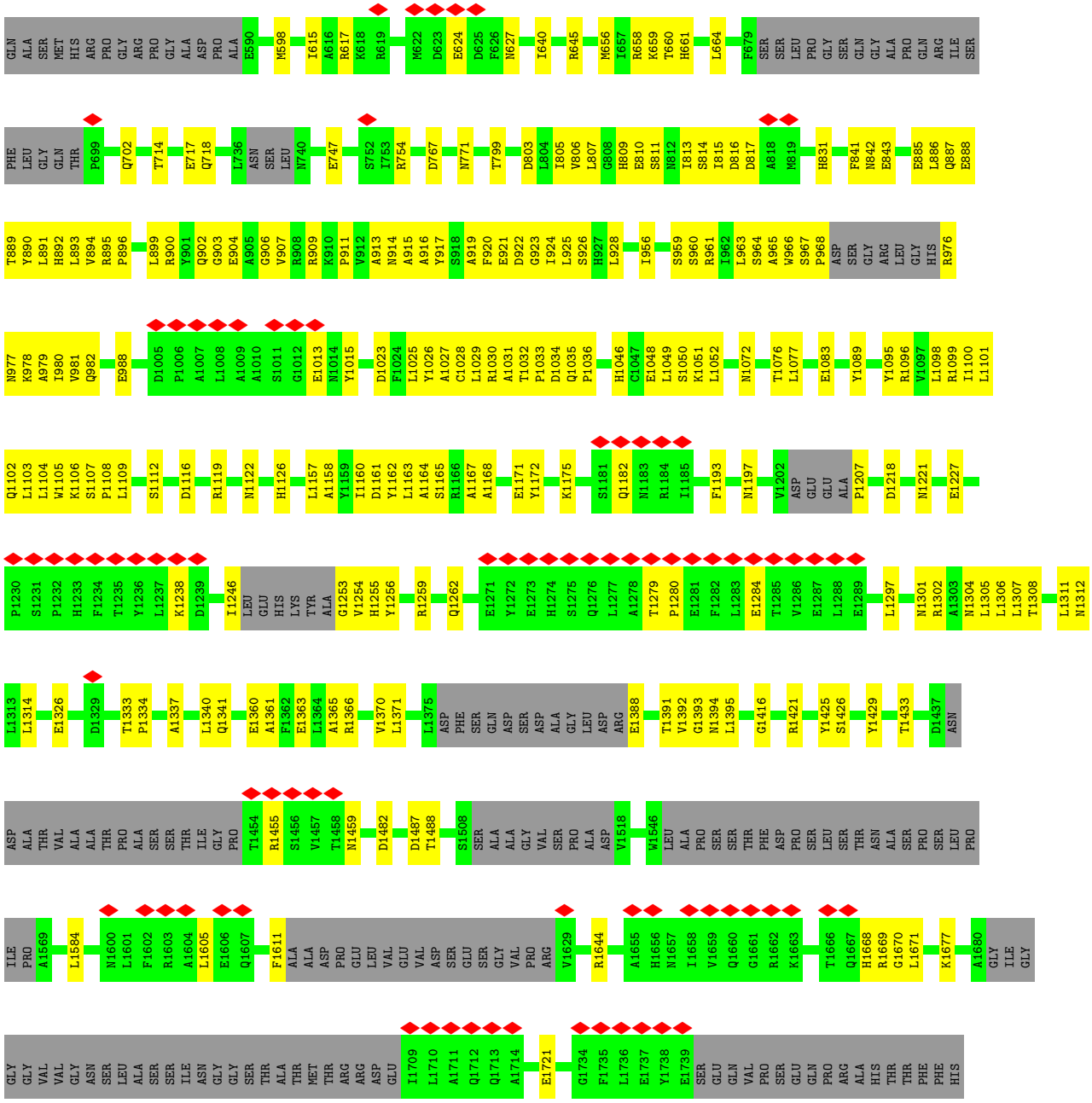




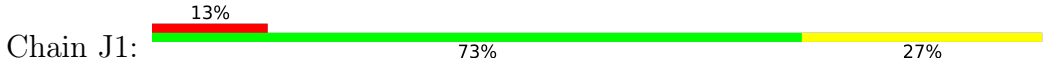
• Molecule 9: Nup192

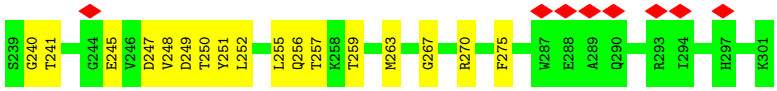
Chain I2:



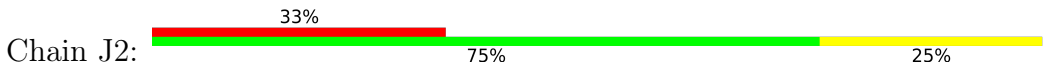


• Molecule 10: Nic96 R2

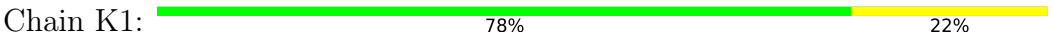




• Molecule 10: Nic96 R2



• Molecule 11: Nup145N/Nup100/Nup116 R1



• Molecule 11: Nup145N/Nup100/Nup116 R1

There are no outlier residues recorded for this chain.

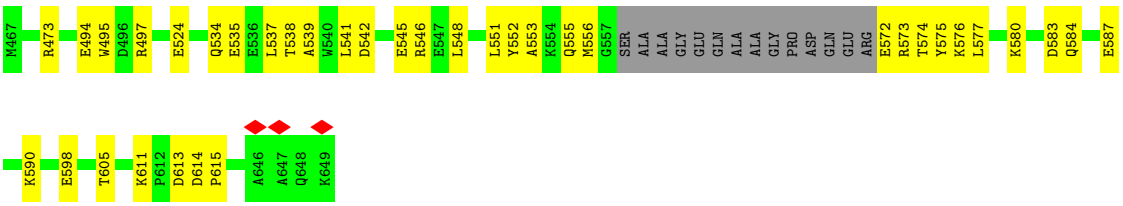
• Molecule 12: Nup53/Nup59 R1

There are no outlier residues recorded for this chain.

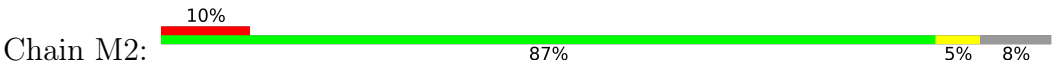
• Molecule 12: Nup53/Nup59 R1

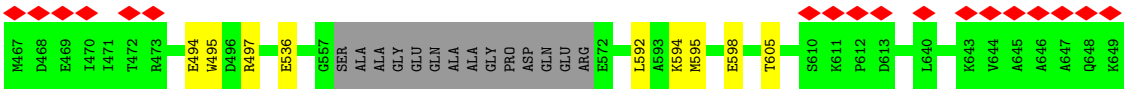
There are no outlier residues recorded for this chain.

• Molecule 13: Nsp1

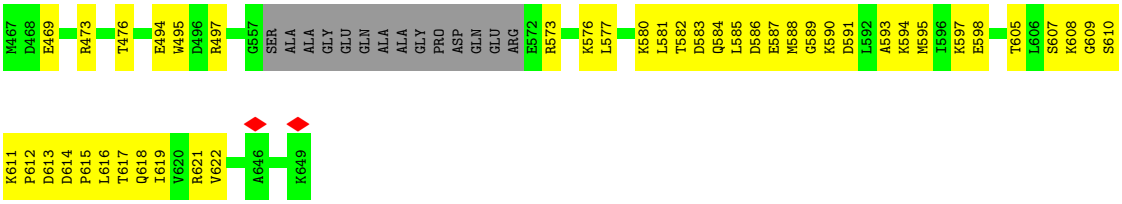


• Molecule 13: Nsp1



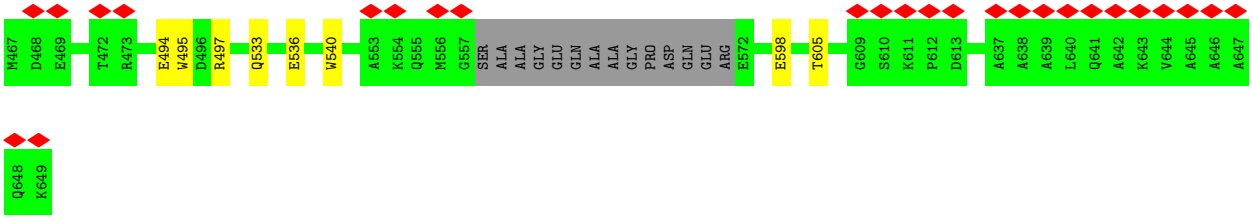


• Molecule 13: Nsp1



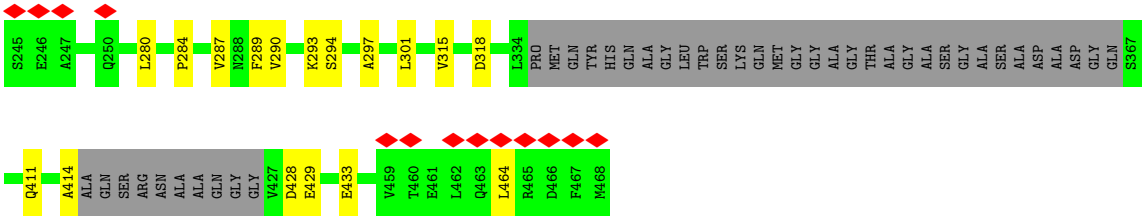
• Molecule 13: Nsp1

Chain M4:



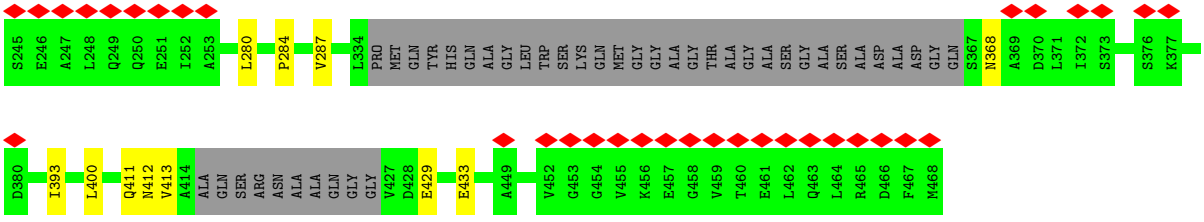
• Molecule 14: Nsp57

Chain N1:



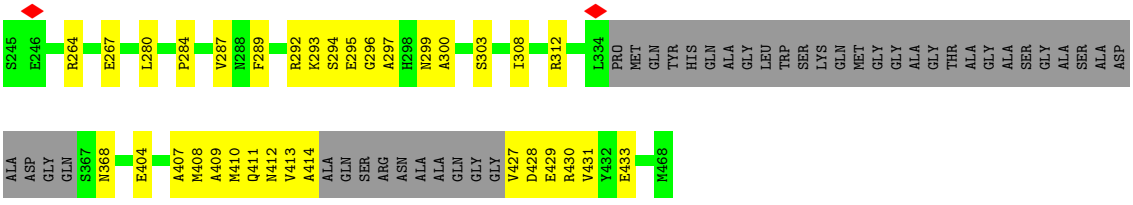
• Molecule 14: Nsp57

Chain N2:



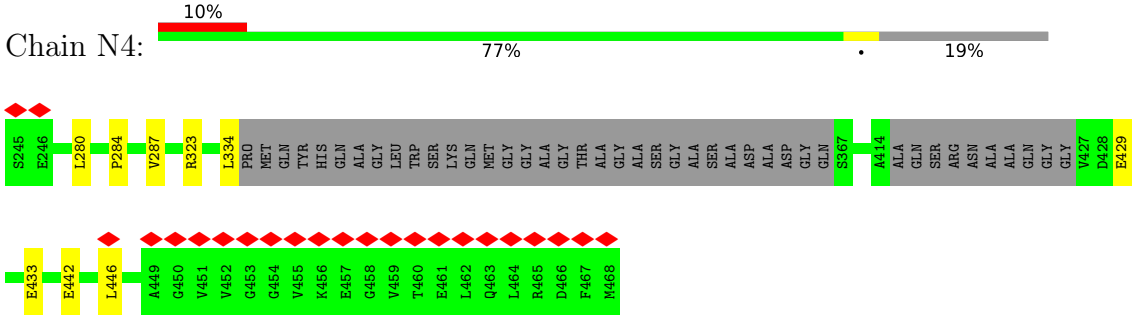
• Molecule 14: Nsp57

Chain N3:



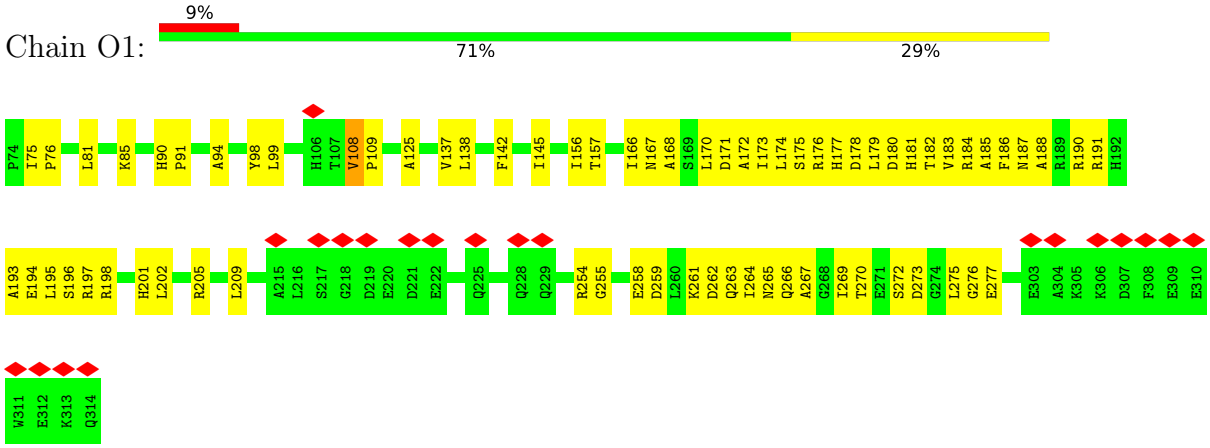
• Molecule 14: Nup57

Chain N4:



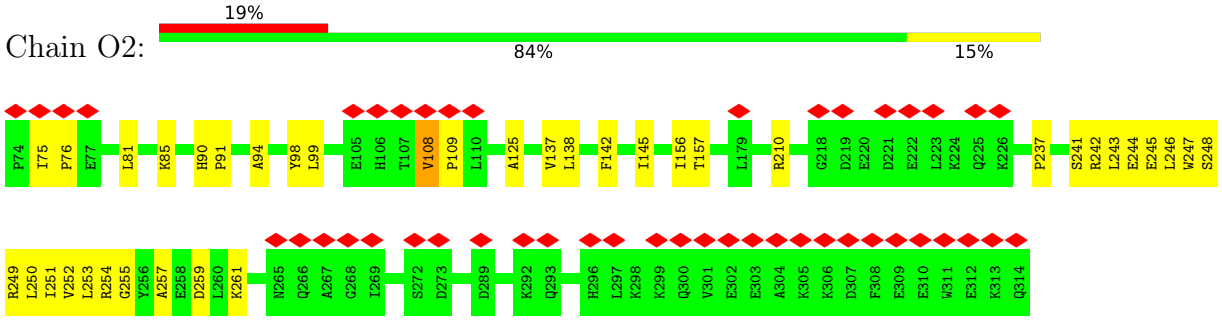
• Molecule 15: Nup49

Chain O1:



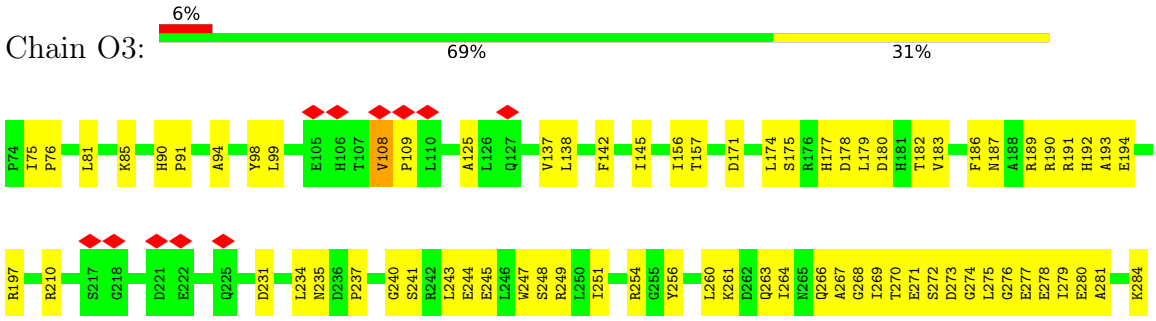
• Molecule 15: Nup49

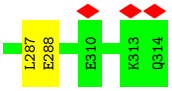
Chain O2:



• Molecule 15: Nup49

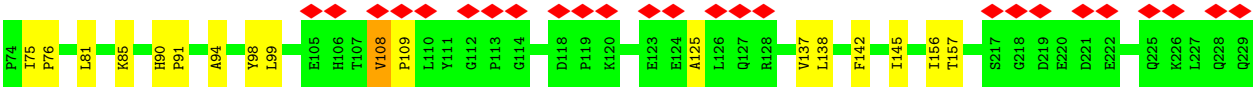
Chain O3:

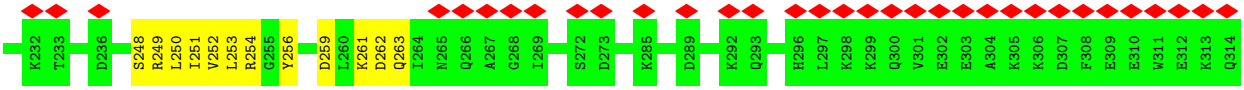




• Molecule 15: Nup49

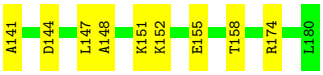
Chain O4:





• Molecule 16: Nic96 R1

Chain P1:



• Molecule 16: Nic96 R1

Chain P2:

• Molecule 16: Nic96 R1

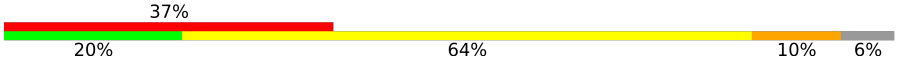
Chain P3:

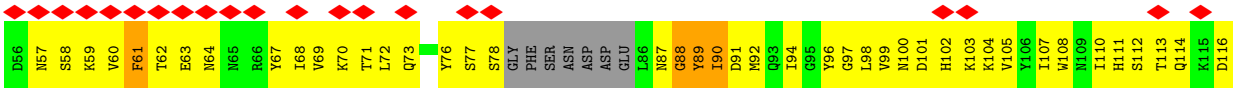
• Molecule 16: Nic96 R1

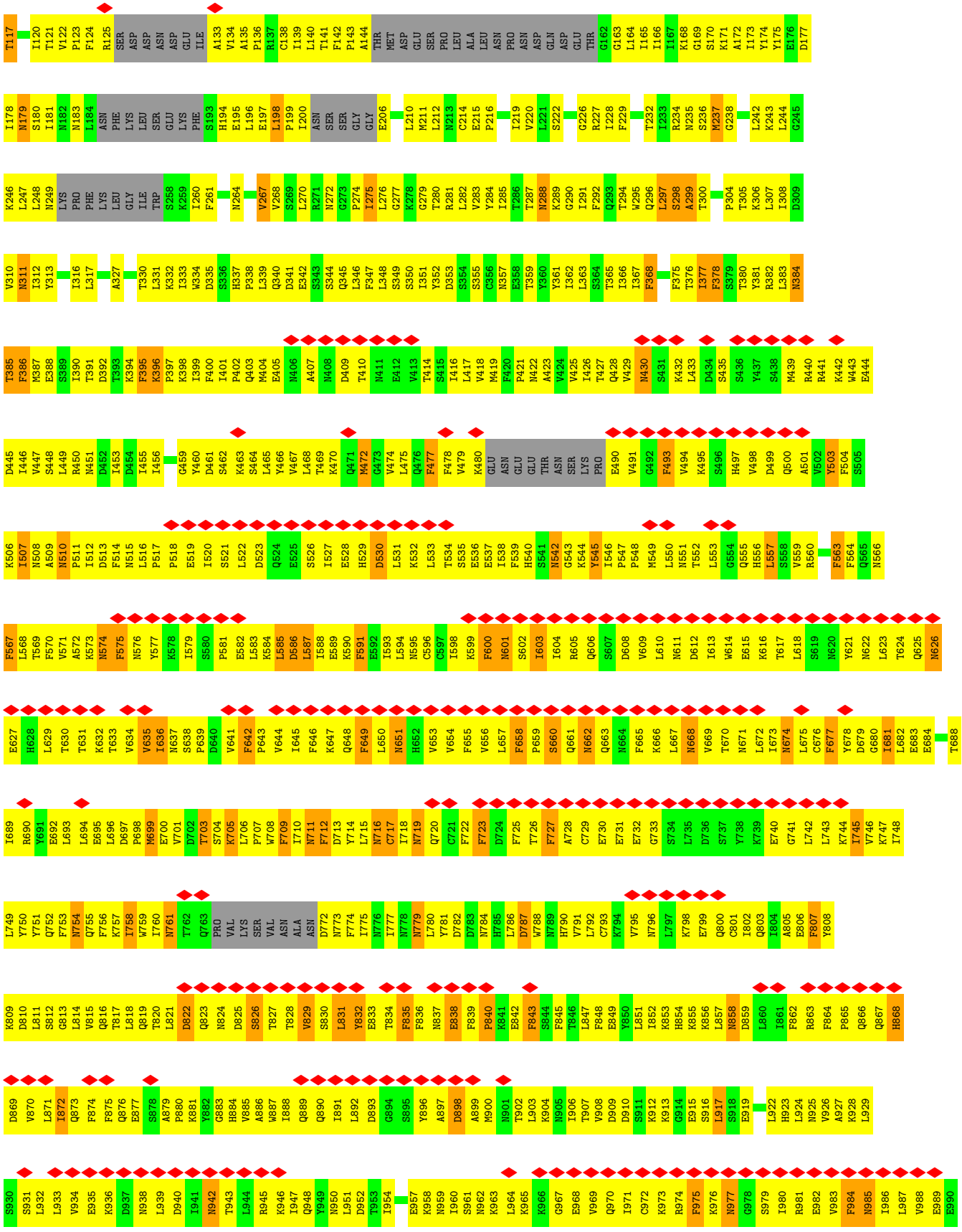
Chain P4:

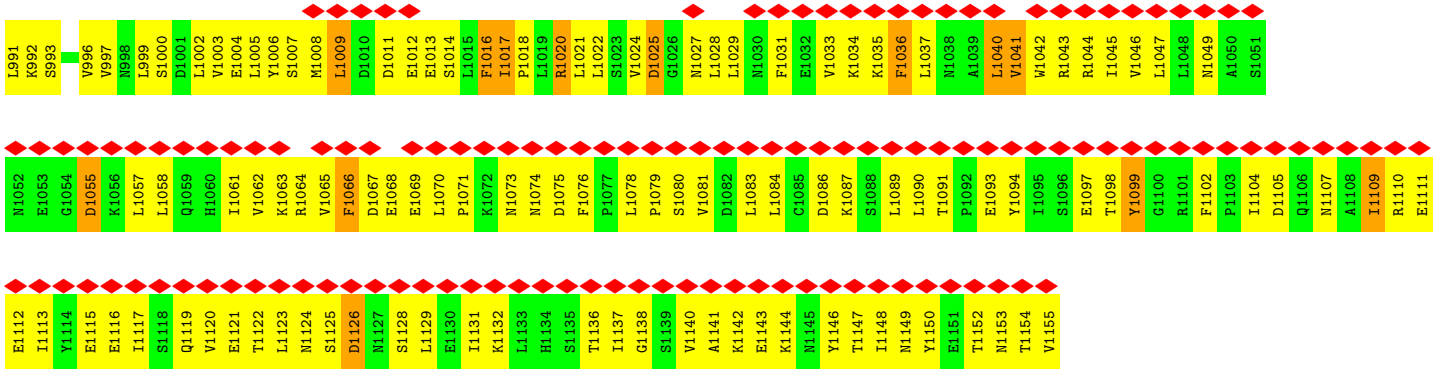
• Molecule 17: Nup133

Chain Q1:



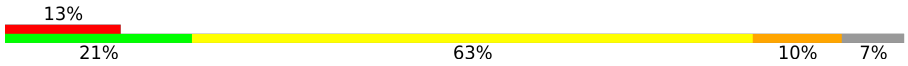


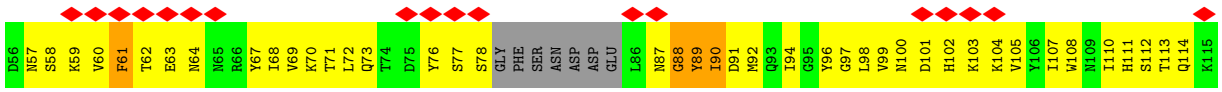


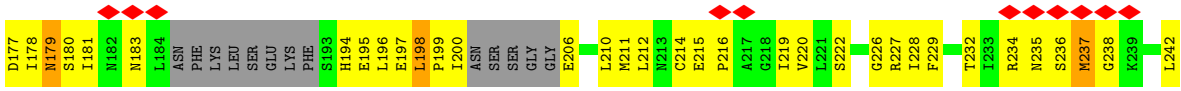


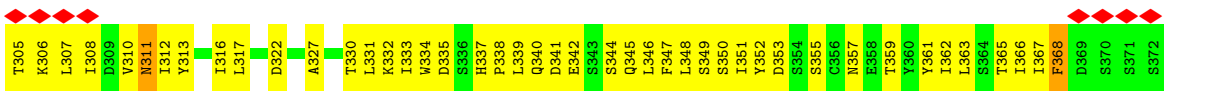
• Molecule 17: Nup133

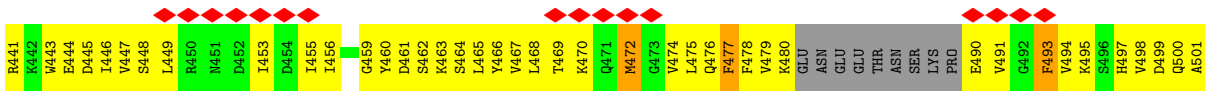
Chain Q2:

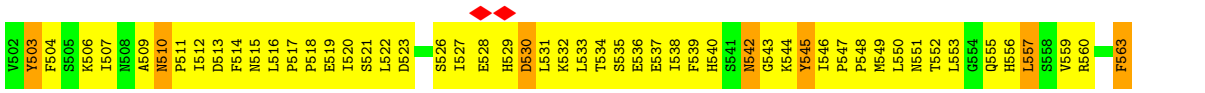


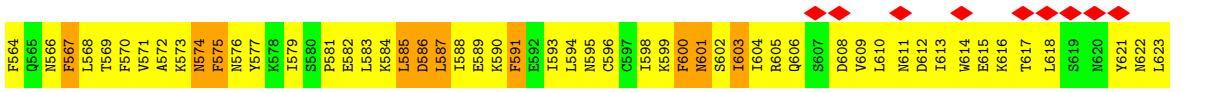


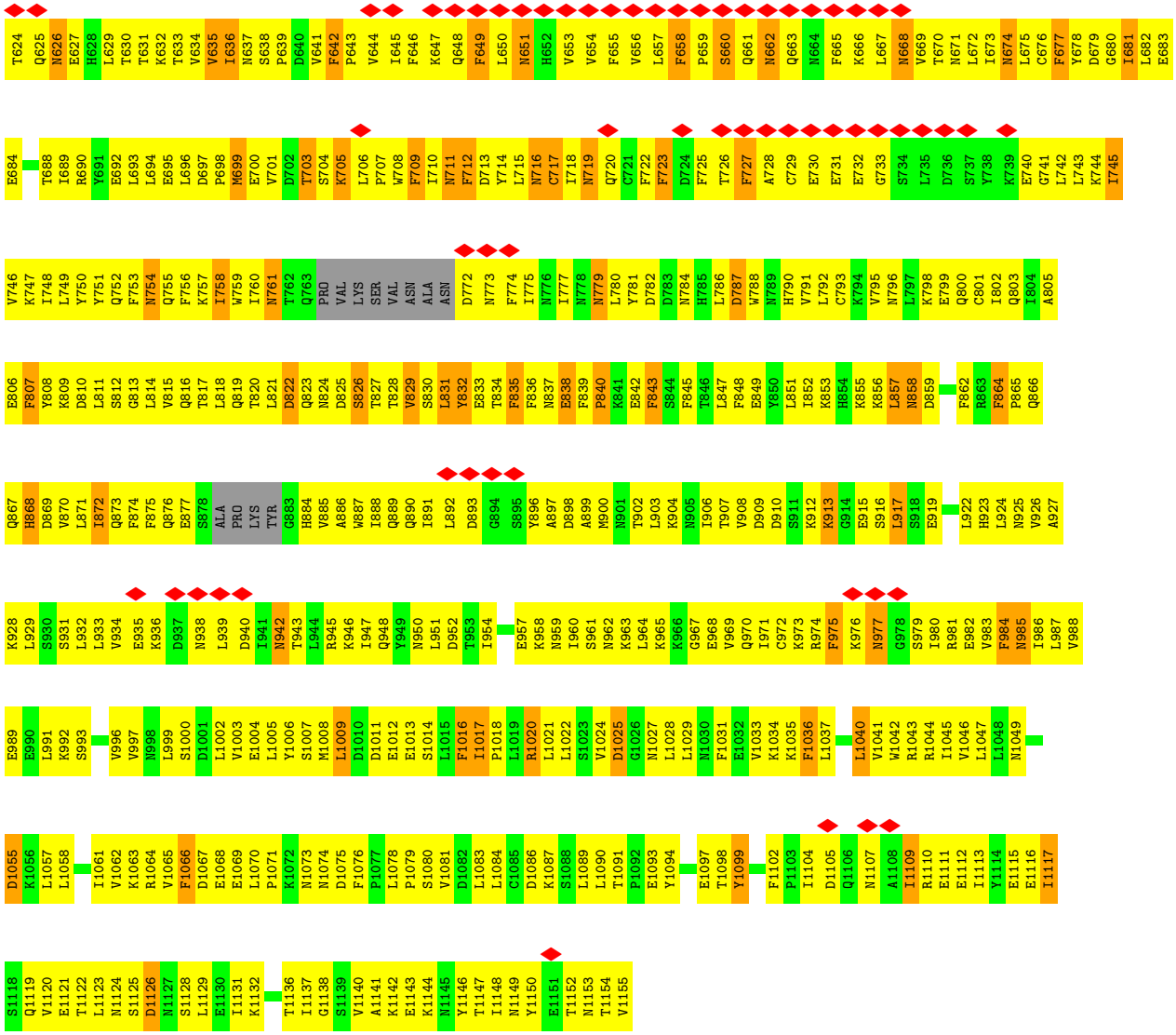






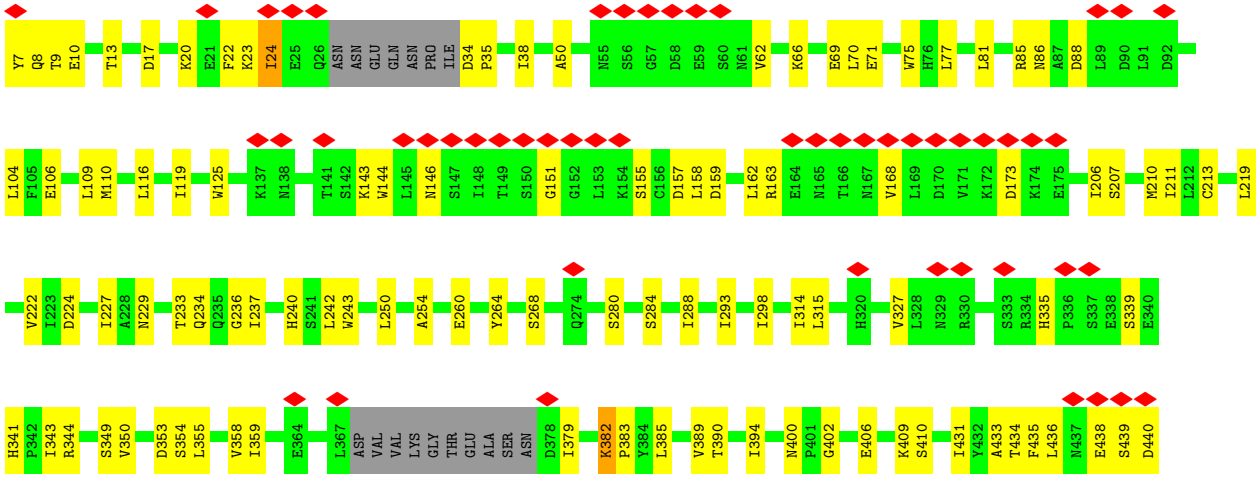


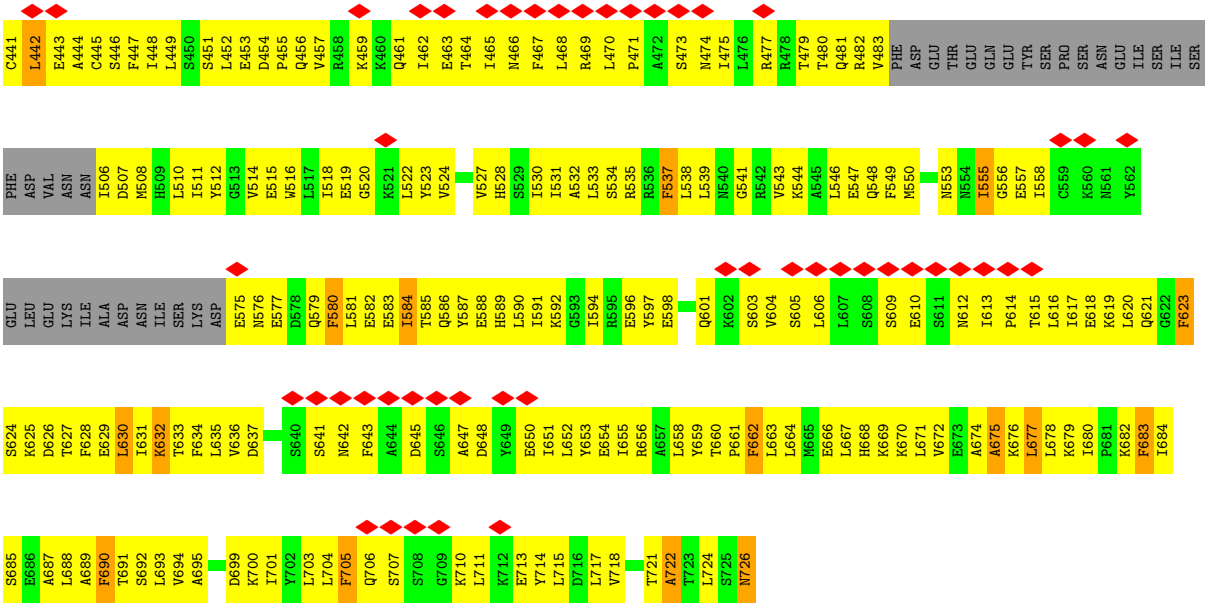




• Molecule 18: Nup84

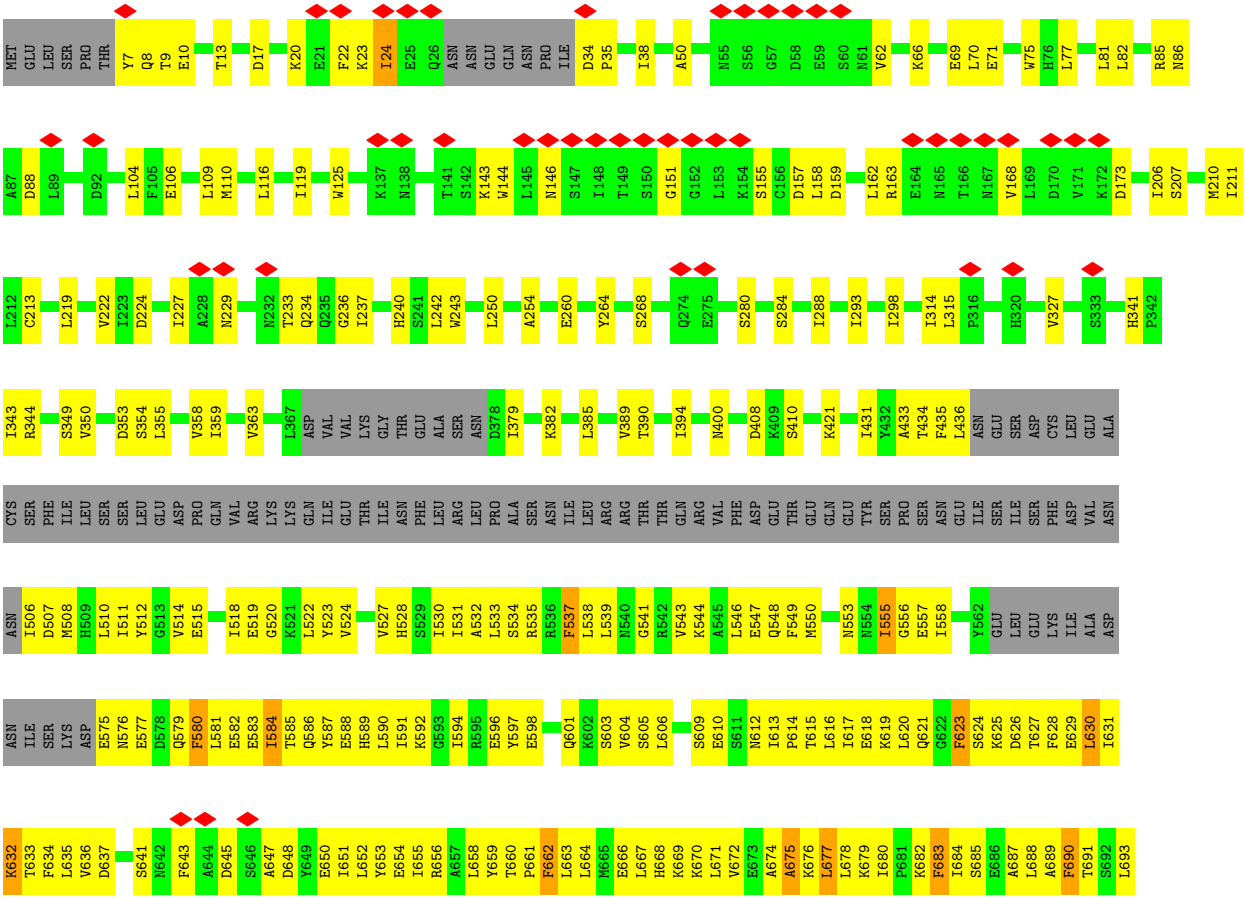
Chain R1:

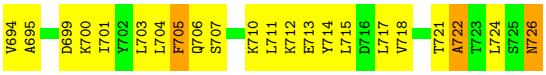




• Molecule 19: Nup84

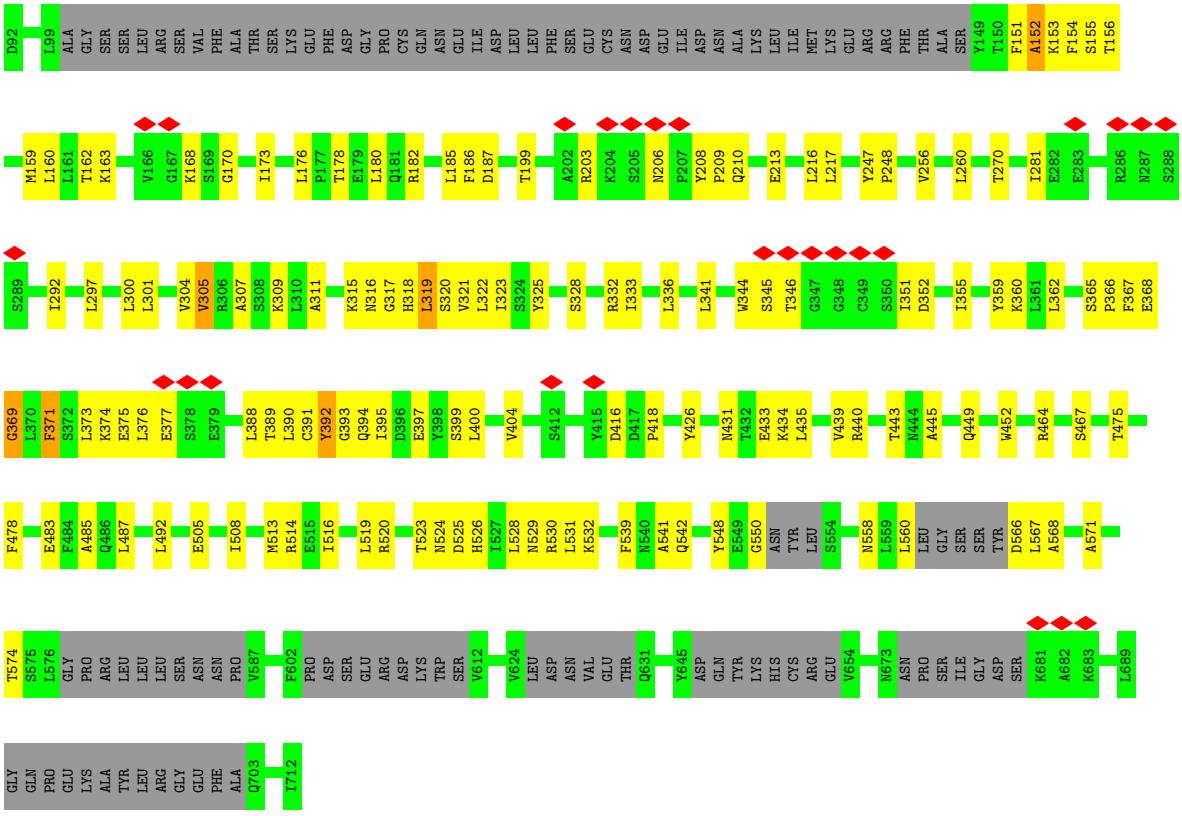
Chain R2:





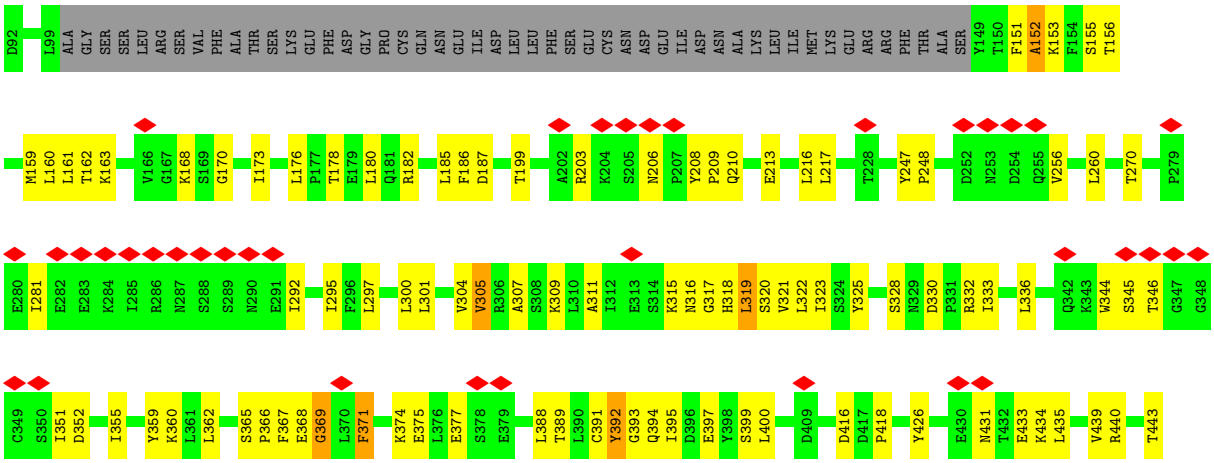
• Molecule 20: Nup145C

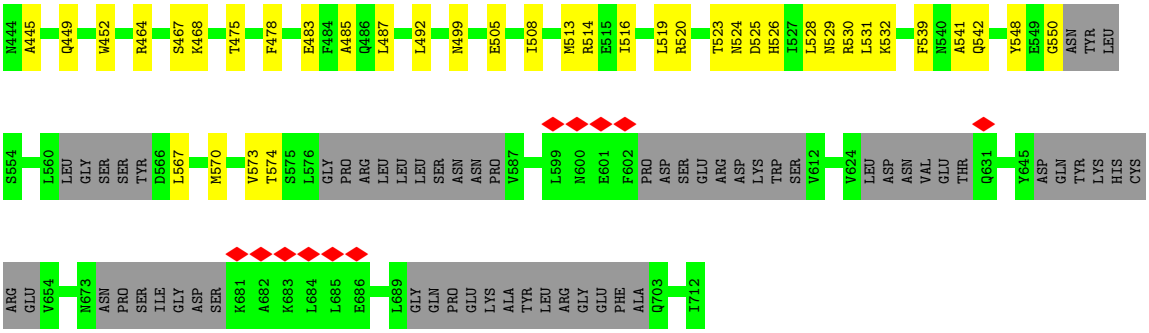
Chain S1:



• Molecule 20: Nup145C

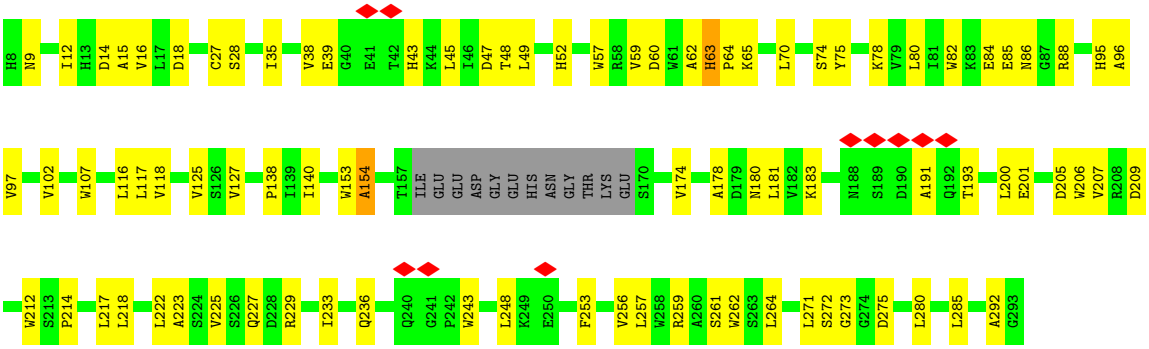
Chain S2:





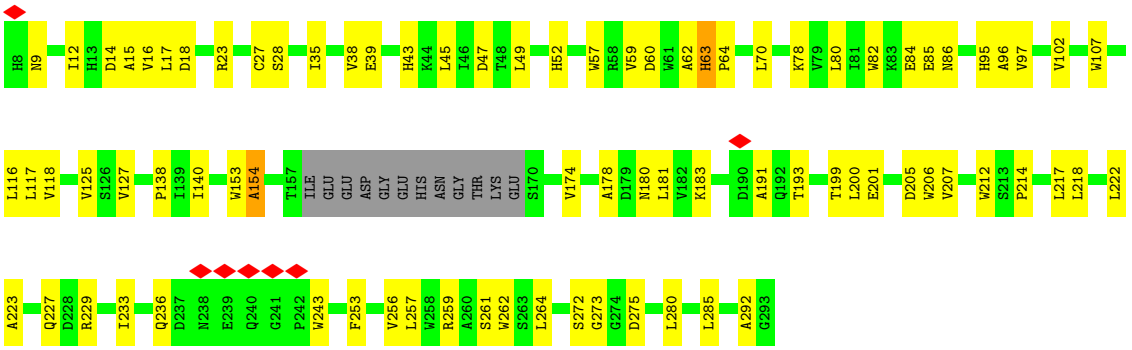
• Molecule 21: Sec13

Chain T1:



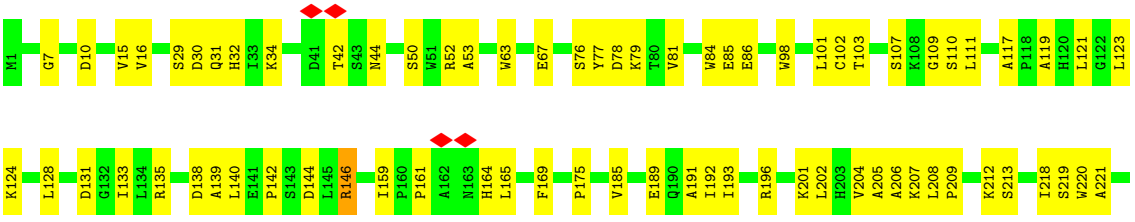
• Molecule 21: Sec13

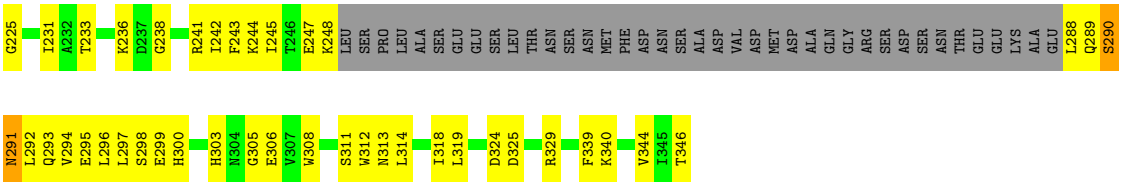
Chain T2:



• Molecule 22: Seh1

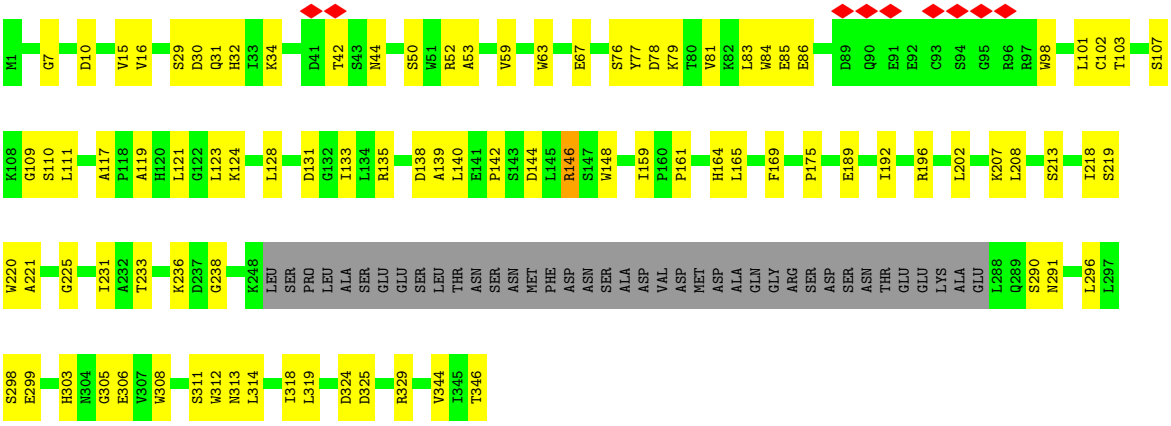
Chain U1:





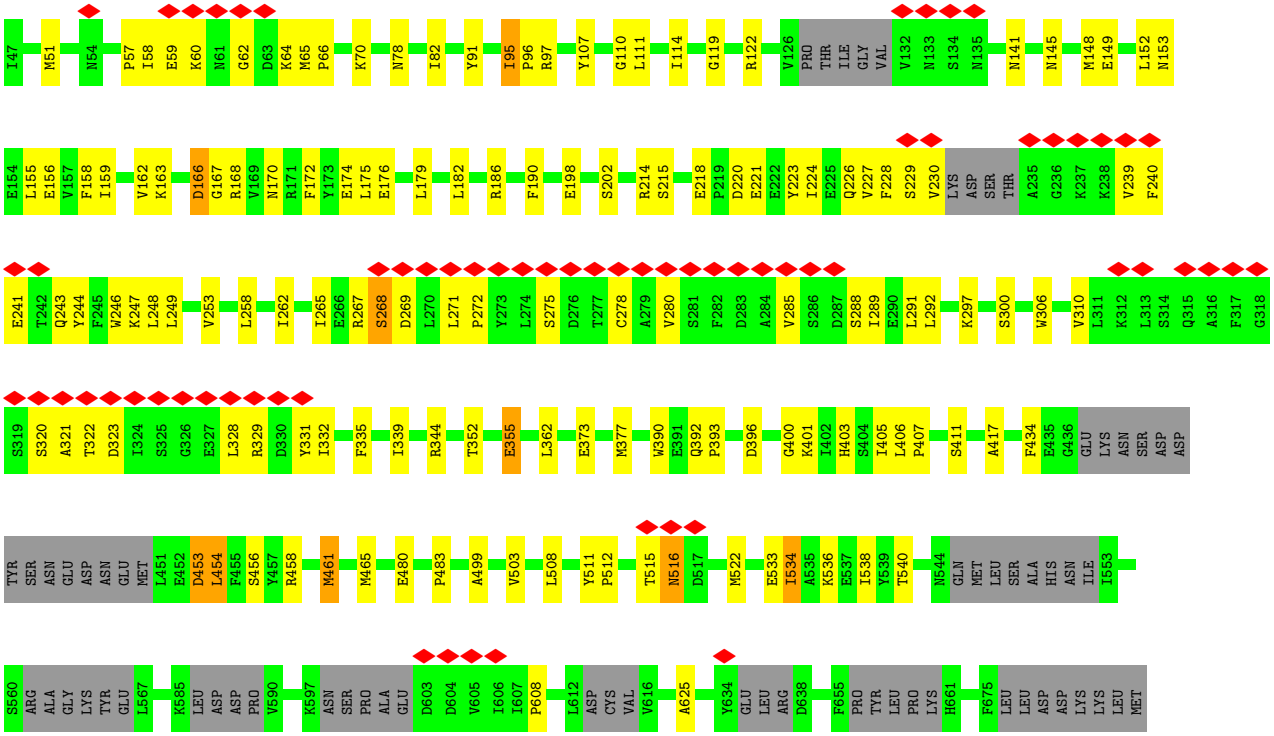
• Molecule 22: Seh1

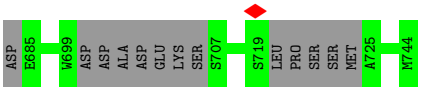
Chain U2:



• Molecule 23: Nup85

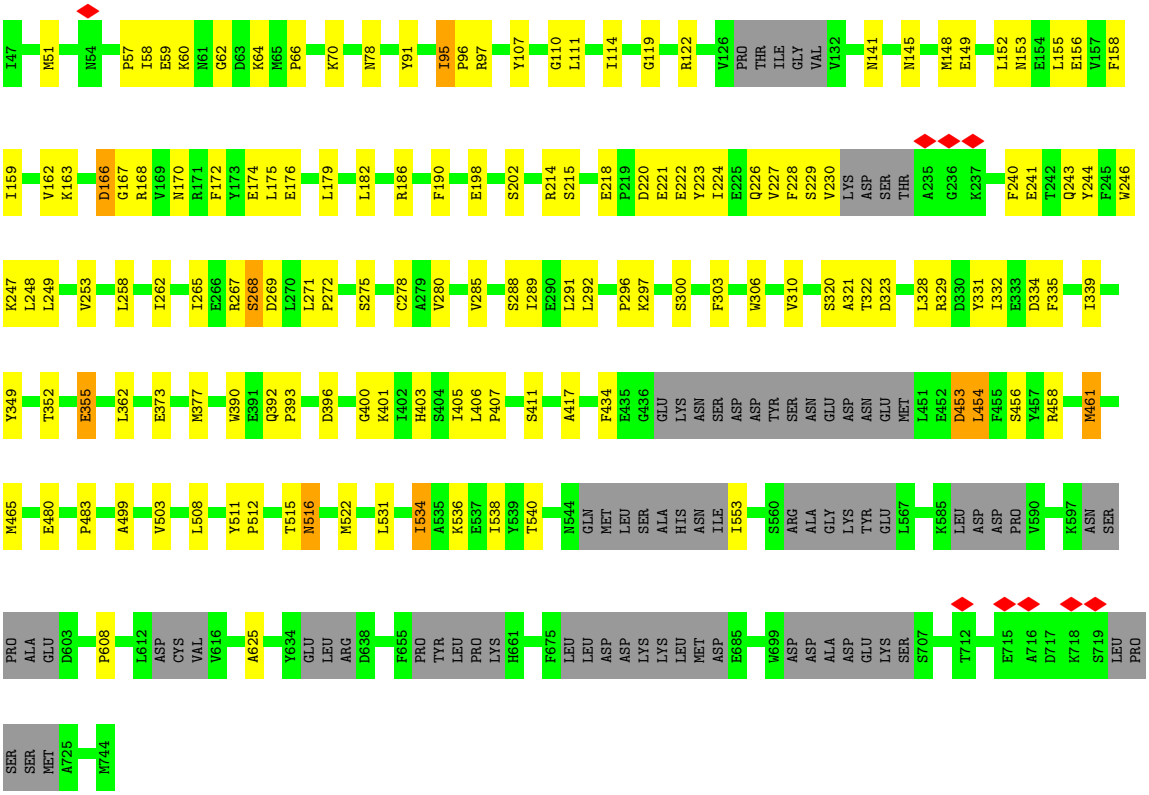
Chain V1:





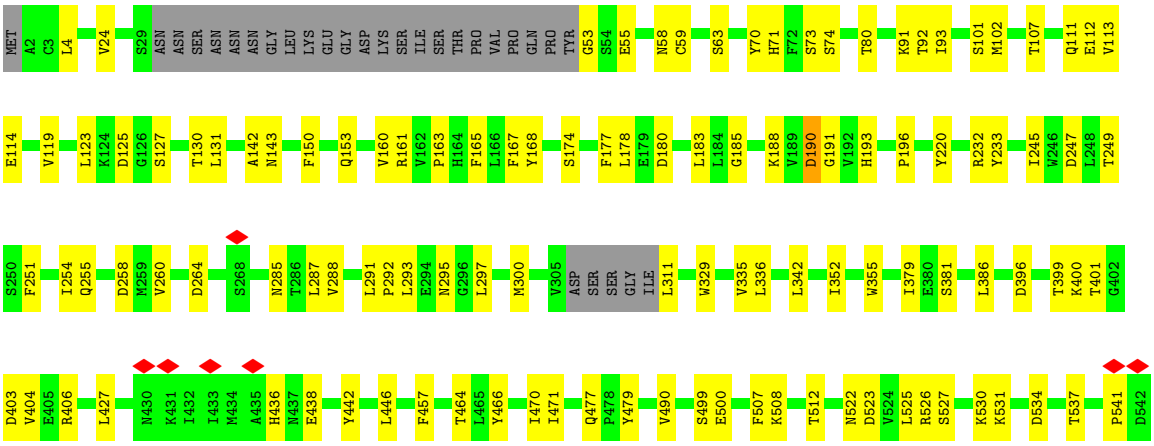
• Molecule 23: Nup85

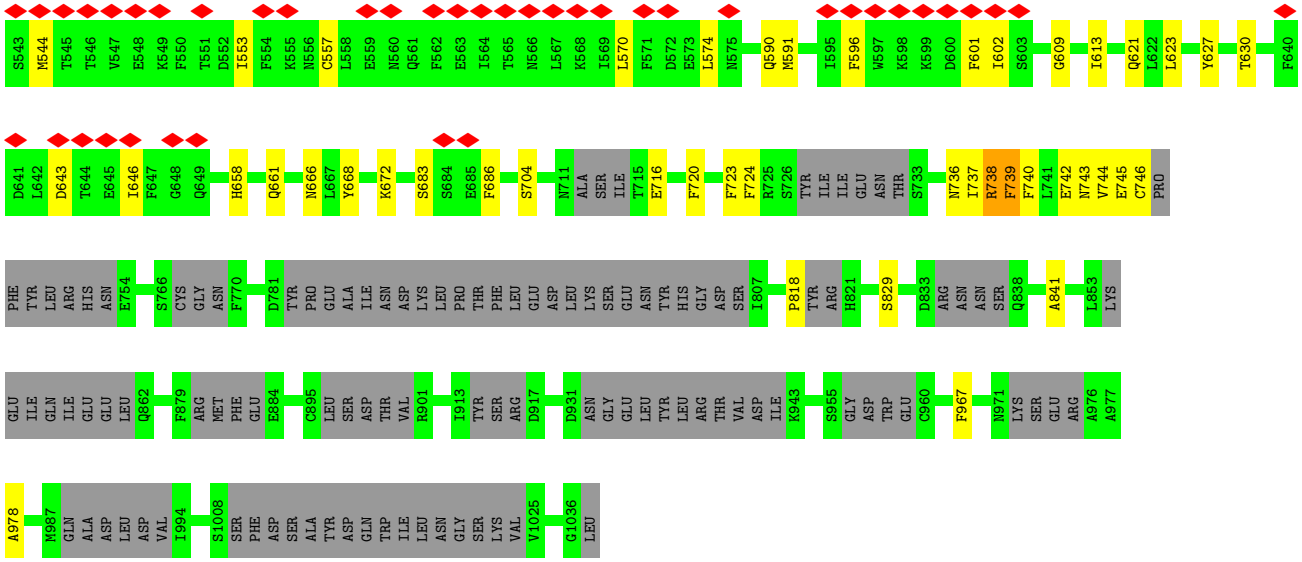
Chain V2:



• Molecule 24: Nup120

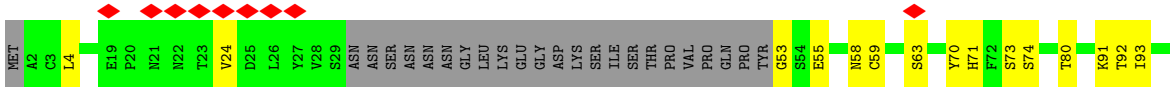
Chain W1:

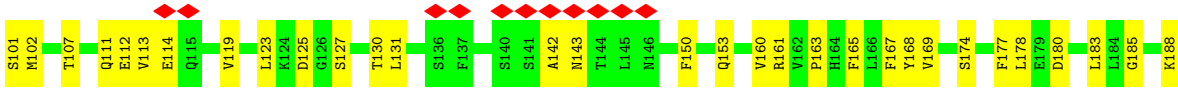


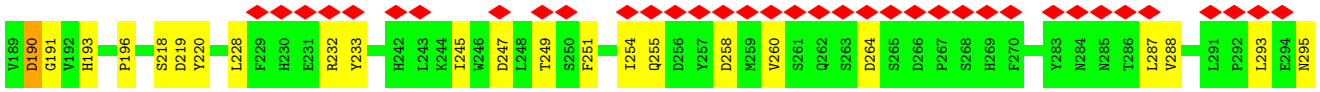


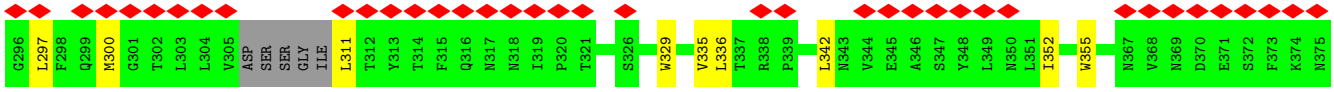
- Molecule 24: Nup120

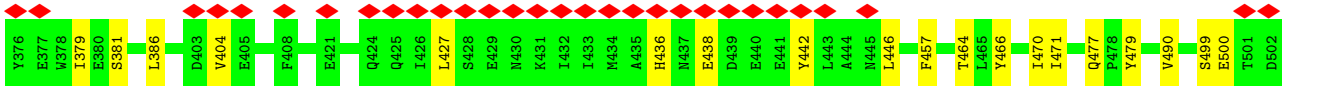
Chain W2:

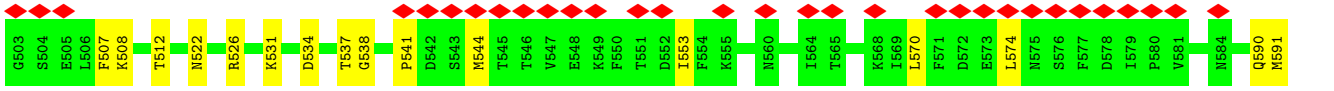


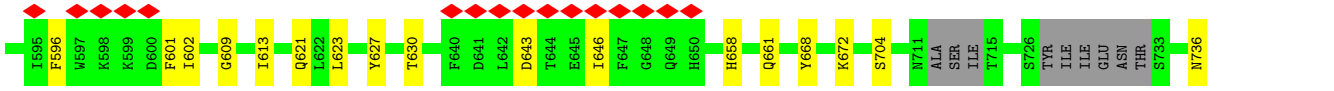


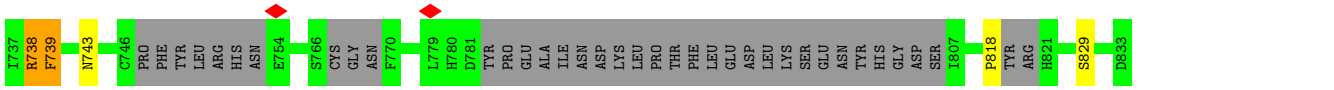


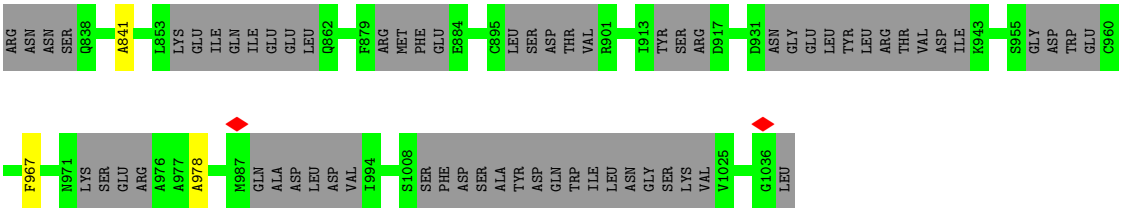






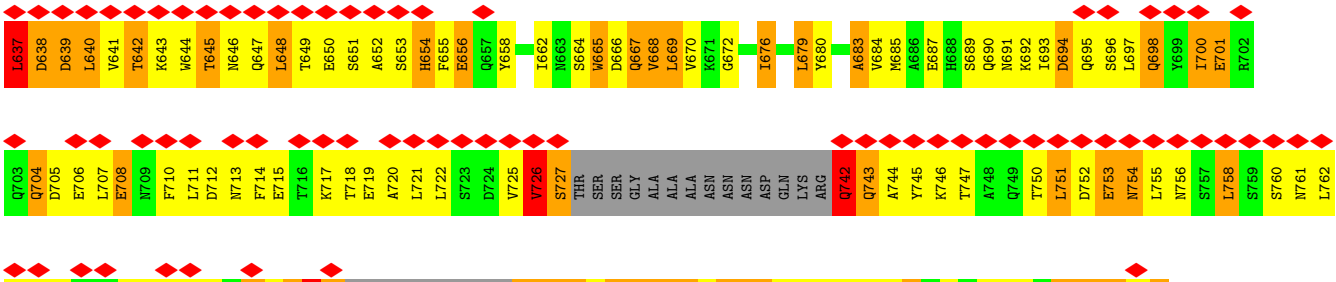






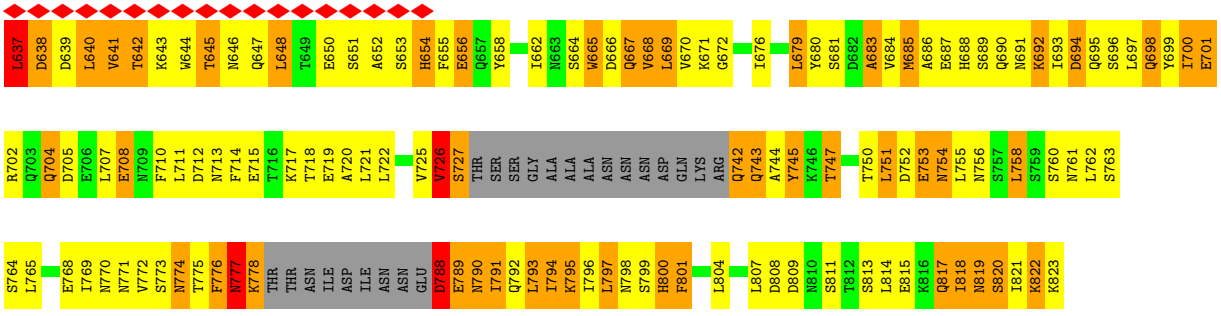
• Molecule 25: Nsp1

Chain X1:



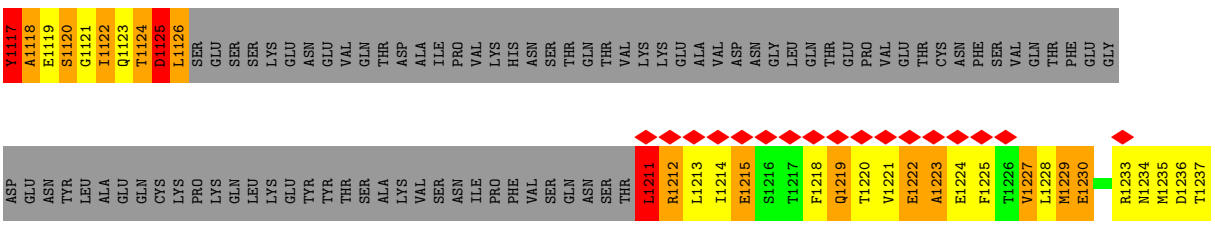
• Molecule 25: Nsp1

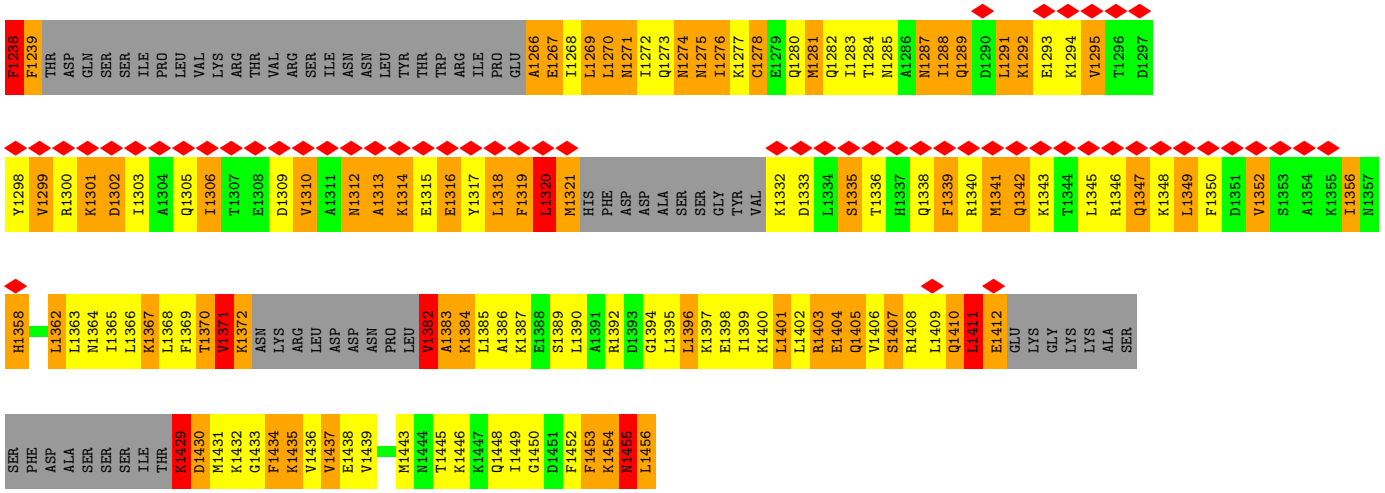
Chain X2:



• Molecule 26: Nup159

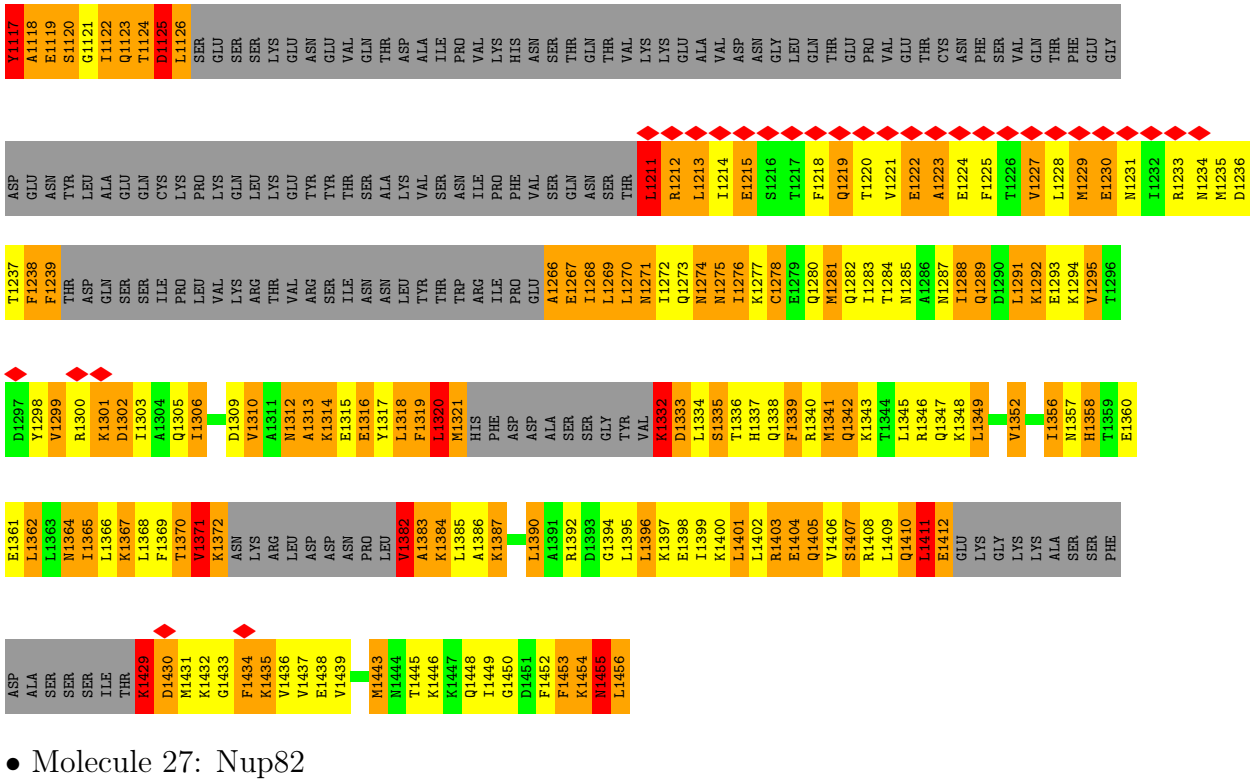
Chain Y1:





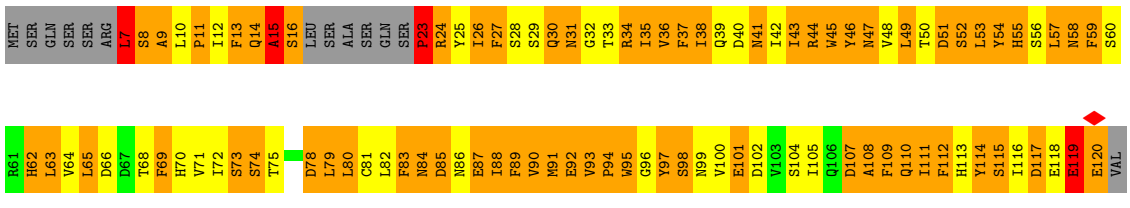
• Molecule 26: Nup159

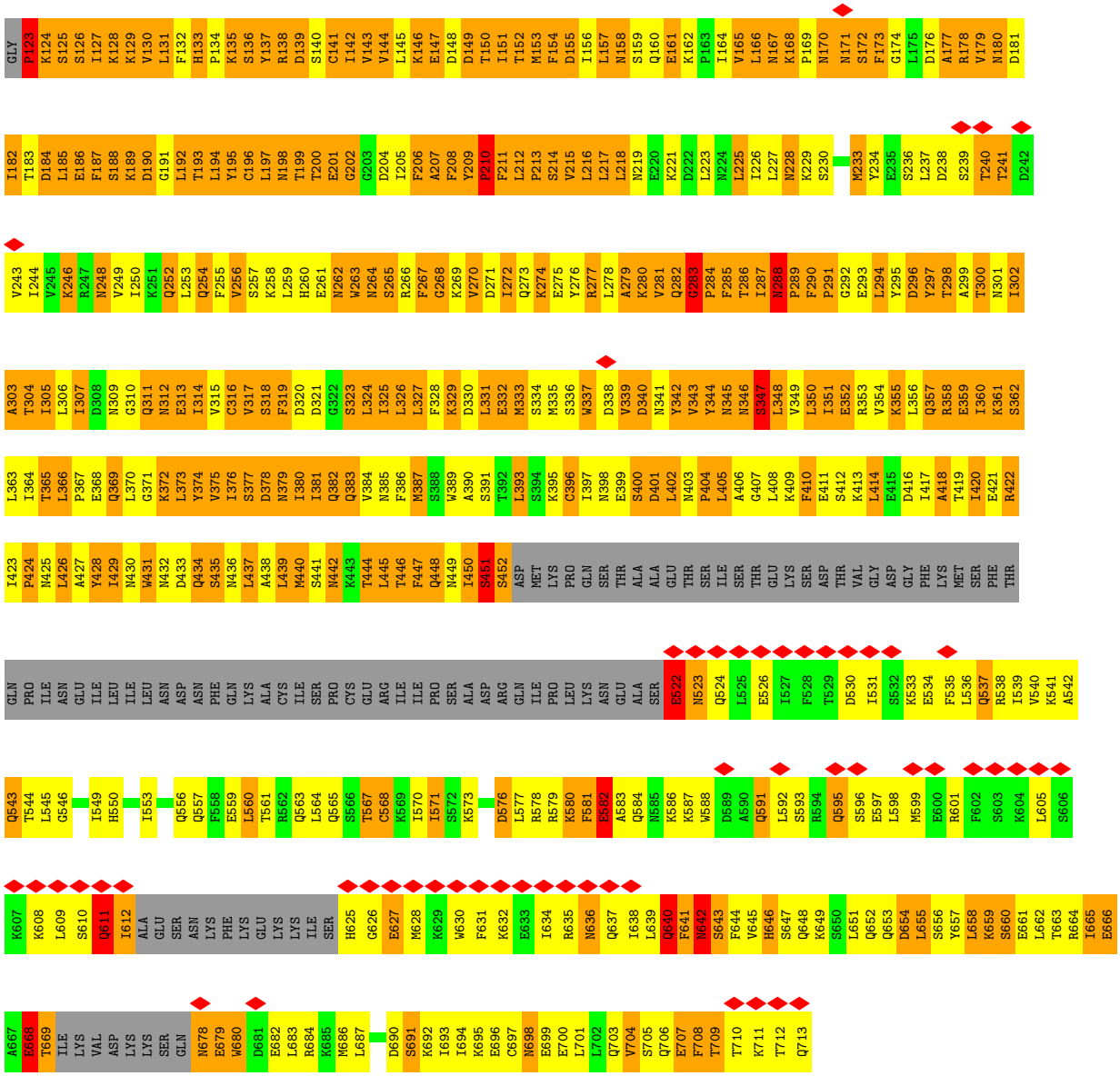
Chain Y2:



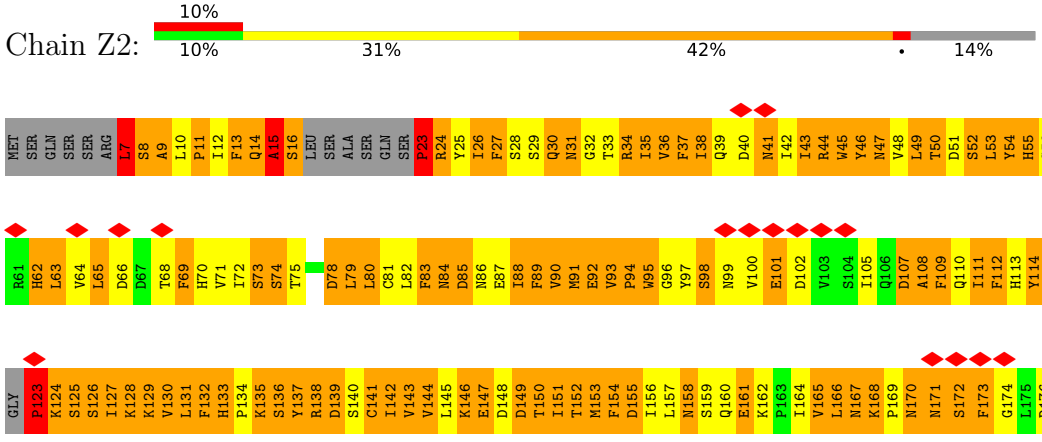
• Molecule 27: Nup82

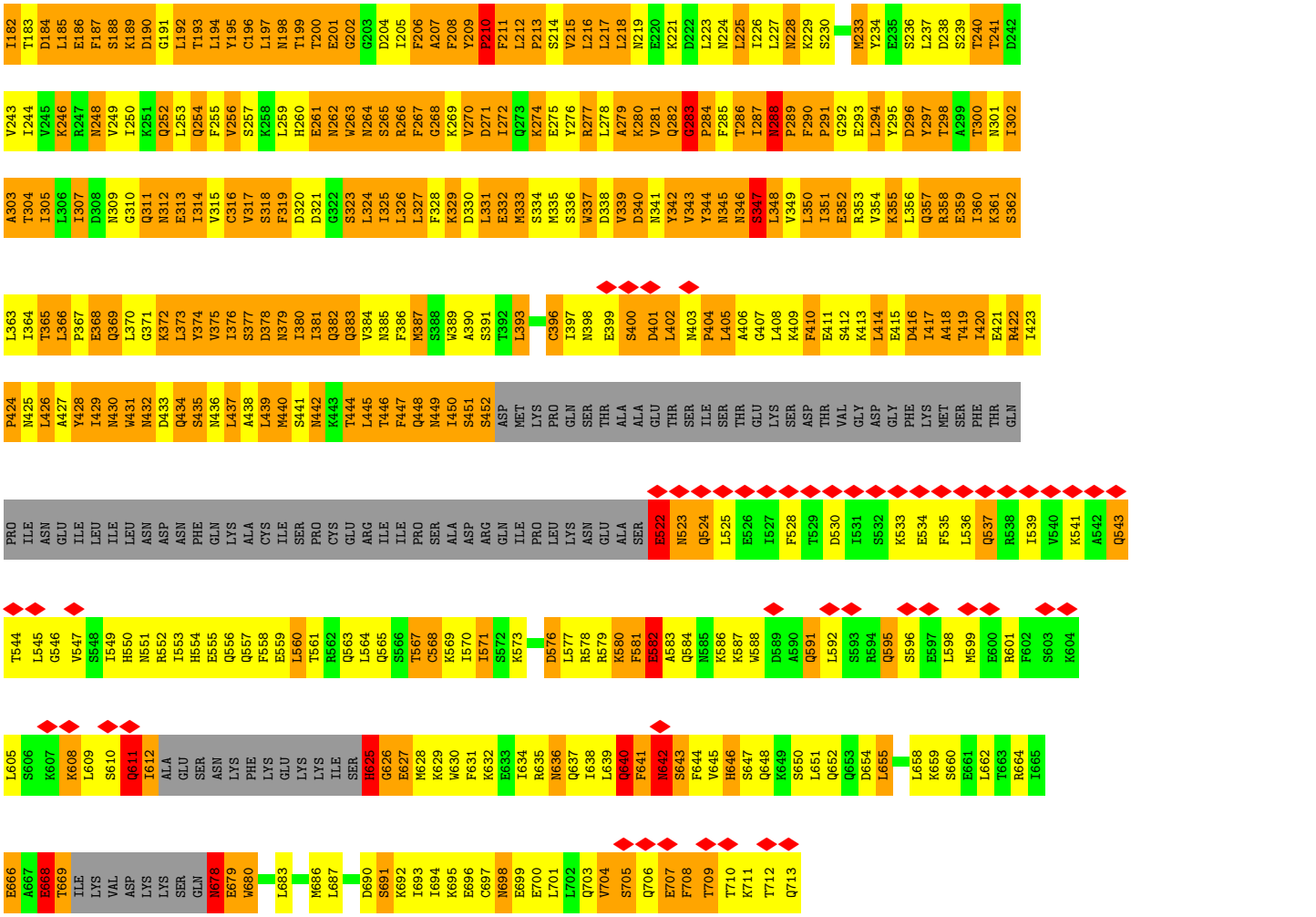
Chain Z1:





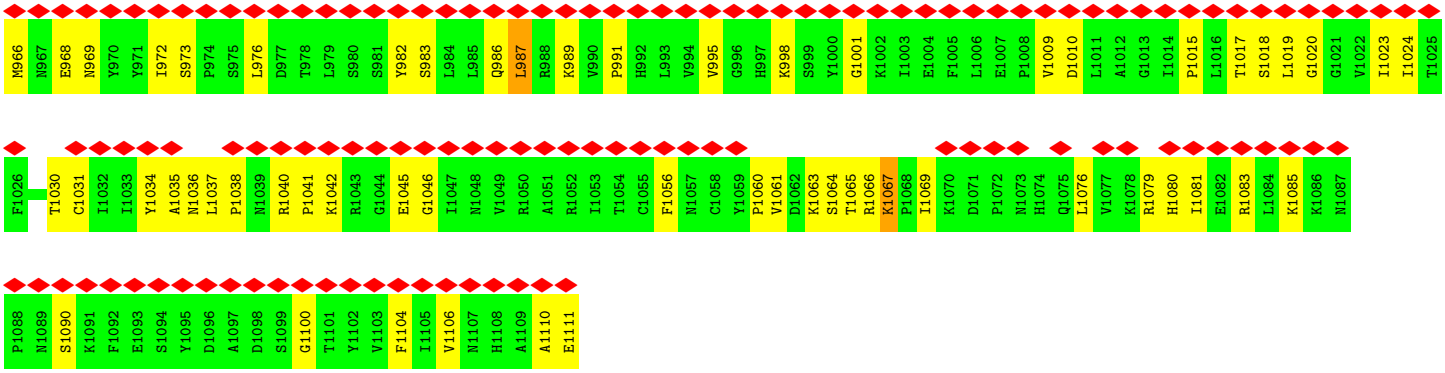
• Molecule 27: Nup82





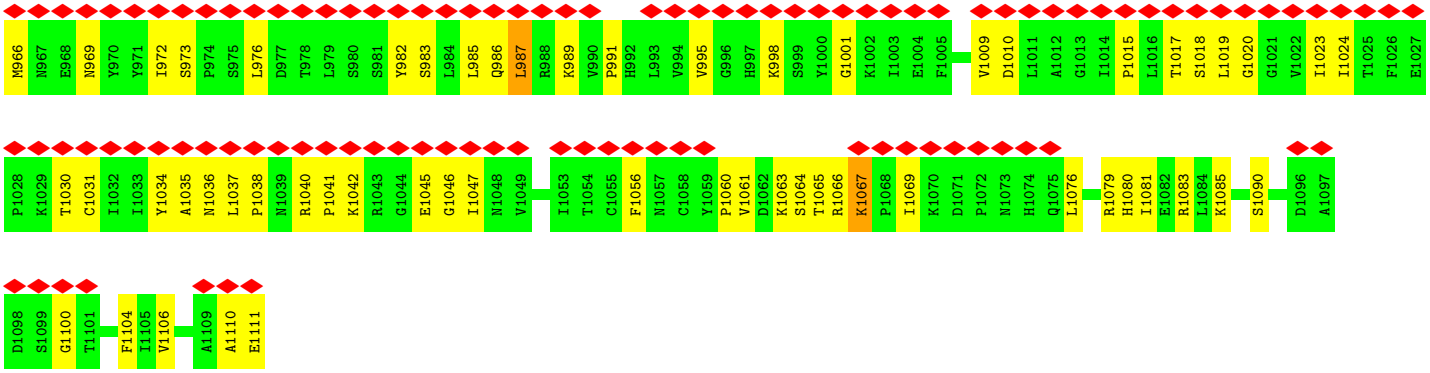
• Molecule 28: Nup116 CTD

Chain a1:

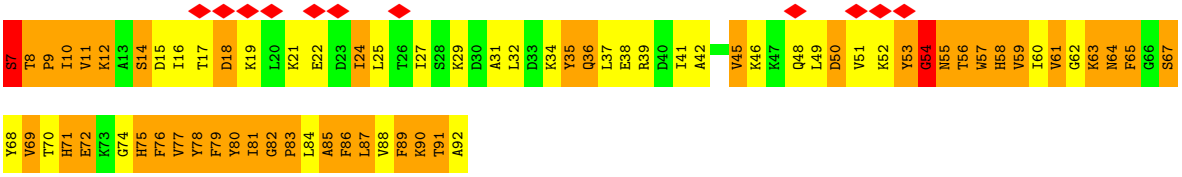


• Molecule 28: Nup116 CTD

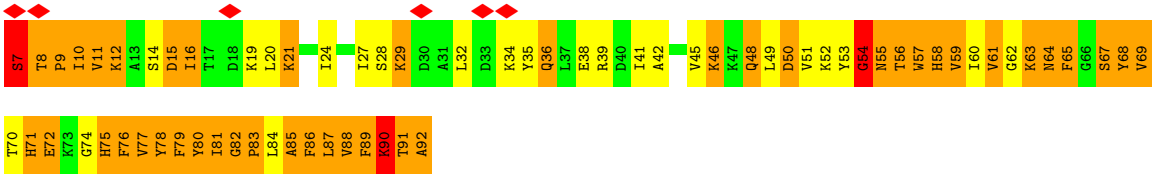
Chain a2:



• Molecule 29: Dyn2



• Molecule 29: Dyn2



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	4000	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 ($e^-/Å^2$)	140	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.515	Depositor
Minimum map value	-0.337	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.032	Depositor
Recommended contour level	0.0606	Depositor
Map size (Å)	1941.1199, 1941.1199, 1941.1199	wwPDB
Map dimensions	288, 288, 288	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	6.74, 6.74, 6.74	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A1	0.22	2/9897 (0.0%)	0.36	0/13434
1	A2	0.21	2/9926 (0.0%)	0.36	0/13474
1	A3	0.21	2/9926 (0.0%)	0.36	0/13474
1	A4	0.21	2/9897 (0.0%)	0.36	0/13434
2	B1	0.19	0/112	0.51	0/149
2	B2	0.18	0/112	0.52	0/149
2	B3	0.18	0/112	0.52	0/149
2	B4	0.18	0/112	0.51	0/149
3	C1	0.28	0/140	0.40	0/188
3	C2	0.28	0/140	0.40	0/188
3	C3	0.28	0/140	0.40	0/188
3	C4	0.28	0/140	0.40	0/188
4	D1	0.29	0/5696	0.66	0/7702
4	D2	0.29	0/5696	0.66	0/7702
4	D3	0.29	0/5696	0.66	0/7702
4	D4	0.29	0/5696	0.66	0/7702
5	E1	0.27	0/140	0.64	0/191
5	E2	0.27	0/140	0.63	0/191
5	E3	0.27	0/140	0.64	0/191
5	E4	0.27	0/140	0.64	0/191
6	F1	0.10	0/13031	0.25	0/17717
6	F2	0.10	0/13031	0.25	0/17717
7	G1	0.11	0/445	0.33	0/600
7	G2	0.12	0/445	0.33	0/600
8	H1	0.13	0/95	0.23	0/128
8	H2	0.12	0/95	0.23	0/128
9	I1	0.09	0/12541	0.20	0/16980
9	I2	0.09	0/12541	0.20	0/16980
10	J1	0.10	0/511	0.18	0/688
10	J2	0.10	0/511	0.18	0/688
11	K1	0.09	0/75	0.23	0/101
11	K2	0.09	0/75	0.23	0/101
12	L1	0.03	0/15	0.07	0/18
12	L2	0.06	0/15	0.06	0/18

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
13	M1	0.30	0/1388	0.66	0/1866
13	M2	0.31	0/1388	0.65	0/1866
13	M3	0.31	0/1388	0.66	0/1866
13	M4	0.31	0/1388	0.66	0/1866
14	N1	0.31	0/1413	0.67	0/1898
14	N2	0.31	0/1413	0.67	0/1898
14	N3	0.31	0/1413	0.67	0/1898
14	N4	0.31	0/1413	0.67	0/1898
15	O1	0.34	0/2011	0.68	1/2715 (0.0%)
15	O2	0.34	0/2011	0.67	1/2715 (0.0%)
15	O3	0.34	0/2011	0.68	1/2715 (0.0%)
15	O4	0.34	0/2011	0.68	1/2715 (0.0%)
16	P1	0.30	0/312	0.62	0/416
16	P2	0.30	0/312	0.63	0/416
16	P3	0.30	0/312	0.63	0/416
16	P4	0.29	0/312	0.63	0/416
17	Q1	1.34	6/8558 (0.1%)	1.73	168/11594 (1.4%)
17	Q2	1.34	6/8522 (0.1%)	1.73	171/11543 (1.5%)
18	R1	0.92	0/5549	1.28	32/7512 (0.4%)
19	R2	0.87	0/5167	1.25	27/6998 (0.4%)
20	S1	0.49	0/3860	1.01	15/5224 (0.3%)
20	S2	0.49	0/3860	1.01	15/5224 (0.3%)
21	T1	0.41	0/2220	0.90	4/3028 (0.1%)
21	T2	0.42	0/2220	0.90	4/3028 (0.1%)
22	U1	0.35	0/2499	0.95	6/3388 (0.2%)
22	U2	0.35	0/2499	0.95	7/3388 (0.2%)
23	V1	0.42	0/4602	1.00	18/6246 (0.3%)
23	V2	0.42	0/4602	1.00	18/6246 (0.3%)
24	W1	0.41	0/6730	0.86	3/9158 (0.0%)
24	W2	0.41	0/6730	0.86	4/9158 (0.0%)
25	X1	16.13	57/1334 (4.3%)	4.05	88/1799 (4.9%)
25	X2	15.69	54/1334 (4.0%)	4.14	90/1799 (5.0%)
26	Y1	22.06	78/1600 (4.9%)	5.42	163/2135 (7.6%)
26	Y2	23.24	89/1600 (5.6%)	5.09	166/2135 (7.8%)
27	Z1	12.76	337/5078 (6.6%)	4.50	772/6856 (11.3%)
27	Z2	12.30	343/5078 (6.8%)	4.50	778/6856 (11.3%)
28	a1	0.43	0/1193	1.02	8/1617 (0.5%)
28	a2	0.43	0/1193	1.02	8/1617 (0.5%)
29	b1	5.51	48/707 (6.8%)	4.04	114/954 (11.9%)
29	b2	4.34	46/707 (6.5%)	4.18	122/954 (12.8%)
All	All	4.21	1072/225362 (0.5%)	1.48	2805/305237 (0.9%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A1	0	2
1	A2	0	2
1	A3	0	2
1	A4	0	2
17	Q1	0	1
17	Q2	0	1
18	R1	0	1
19	R2	0	1
20	S1	0	2
20	S2	0	2
24	W1	0	2
24	W2	0	2
25	X1	1	5
25	X2	1	9
26	Y1	2	16
26	Y2	3	15
27	Z1	9	24
27	Z2	9	25
29	b1	0	4
29	b2	1	4
All	All	26	122

All (1072) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	522	GLU	N-CA	460.48	10.21	1.46
26	Y2	1126	LEU	CA-C	362.44	9.14	1.52
27	Z1	452	SER	CA-C	350.15	8.88	1.52
26	Y1	1126	LEU	CA-C	334.06	8.54	1.52
26	Y2	1429	LYS	N-CA	328.66	7.70	1.46
27	Z2	452	SER	CA-C	322.99	8.31	1.52
25	X2	637	LEU	N-CA	314.67	7.44	1.46
26	Y2	1118	ALA	N-CA	304.48	5.38	1.46
25	X1	637	LEU	N-CA	300.30	7.16	1.46
26	Y2	1117	TYR	N-CA	289.74	6.96	1.46
26	Y1	1382	VAL	N-CA	287.51	6.92	1.46
27	Z1	522	GLU	N-CA	284.39	6.86	1.46
26	Y1	1332	LYS	N-CA	276.72	6.72	1.46
25	X1	638	ASP	N-CA	264.59	4.87	1.46
25	X2	742	GLN	N-CA	257.49	6.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	123	PRO	N-CD	252.96	5.01	1.47
26	Y2	1412	GLU	CA-C	246.59	6.70	1.52
26	Y1	1321	MET	CA-C	246.42	6.70	1.52
27	Z1	625	HIS	N-CA	246.37	6.14	1.46
27	Z1	678	ASN	N-CA	245.22	6.12	1.46
26	Y1	1117	TYR	N-CA	243.16	6.08	1.46
26	Y1	1372	LYS	CA-C	236.87	6.50	1.52
25	X2	638	ASP	N-CA	230.71	4.43	1.46
27	Z1	641	PHE	CA-C	215.90	4.20	1.52
27	Z2	641	PHE	CA-C	215.83	4.20	1.52
27	Z2	625	HIS	N-CA	213.03	5.51	1.46
26	Y2	1211	LEU	N-CA	207.40	5.40	1.46
26	Y2	1212	ARG	N-CA	202.98	4.08	1.46
27	Z1	642	ASN	N-CA	200.28	4.04	1.46
26	Y2	1332	LYS	N-CA	200.20	5.26	1.46
27	Z2	642	ASN	N-CA	200.20	4.04	1.46
25	X1	742	GLN	N-CA	191.35	5.09	1.46
25	X2	637	LEU	CA-C	191.34	5.54	1.52
27	Z1	669	THR	CA-C	190.69	5.53	1.52
26	Y2	1239	PHE	CA-C	189.96	5.51	1.52
25	X1	637	LEU	CA-C	183.90	5.39	1.52
27	Z1	23	PRO	N-CA	176.25	4.11	1.47
25	X1	727	SER	CA-C	175.50	5.21	1.52
26	Y2	1126	LEU	N-CA	174.94	4.78	1.46
26	Y1	1320	LEU	CA-C	174.03	3.53	1.53
26	Y2	1266	ALA	N-CA	171.36	4.71	1.46
26	Y1	1117	TYR	CA-C	171.25	5.12	1.52
26	Y1	1430	ASP	N-CA	170.14	3.55	1.46
26	Y1	1411	LEU	CA-C	168.84	3.79	1.52
25	X1	777	ASN	CA-C	163.49	3.78	1.52
27	Z2	7	LEU	N-CA	159.09	4.48	1.46
26	Y1	1238	PHE	CA-C	153.36	3.58	1.52
26	Y2	1321	MET	CA-C	150.56	4.69	1.52
26	Y1	1239	PHE	CA-C	150.25	4.68	1.52
27	Z2	23	PRO	N-CA	149.87	3.71	1.47
27	Z2	522	GLU	CA-C	149.44	4.66	1.52
27	Z2	16	SER	CA-C	146.67	4.61	1.52
26	Y1	1126	LEU	N-CA	145.57	4.22	1.46
26	Y1	1429	LYS	N-CA	145.50	4.22	1.46
27	Z1	16	SER	CA-C	143.93	4.55	1.52
25	X2	777	ASN	CA-C	143.57	3.45	1.52
26	Y1	1382	VAL	CA-C	142.85	4.53	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	119	GLU	CA-C	141.21	3.16	1.53
27	Z1	612	ILE	CA-C	134.86	4.36	1.52
27	Z1	452	SER	N-CA	133.57	4.00	1.46
25	X1	789	GLU	N-CA	132.73	3.16	1.46
27	Z2	612	ILE	CA-C	131.68	4.29	1.52
27	Z1	626	GLY	N-CA	129.86	3.06	1.45
26	Y1	1412	GLU	CA-C	127.51	4.20	1.52
27	Z1	641	PHE	N-CA	126.19	3.03	1.45
27	Z2	641	PHE	N-CA	126.17	3.03	1.45
26	Y1	1333	ASP	N-CA	125.56	3.08	1.46
25	X1	788	ASP	N-CA	123.54	3.81	1.46
25	X2	778	LYS	CA-C	123.28	4.11	1.52
26	Y2	1372	LYS	CA-C	119.79	3.13	1.52
26	Y2	1382	VAL	N-CA	118.94	3.72	1.46
26	Y1	1372	LYS	N-CA	116.46	3.67	1.46
27	Z1	23	PRO	N-CD	116.23	3.10	1.47
26	Y2	1456	LEU	CA-C	115.20	3.94	1.52
27	Z2	23	PRO	N-CD	114.68	3.08	1.47
27	Z2	612	ILE	N-CA	113.97	3.62	1.46
27	Z1	668	GLU	CA-C	112.41	3.03	1.52
26	Y1	1118	ALA	N-CA	112.22	2.90	1.46
27	Z2	120	GLU	CA-C	112.12	3.88	1.52
26	Y2	1238	PHE	CA-C	109.20	2.99	1.52
26	Y2	1332	LYS	CA-C	105.66	3.74	1.52
27	Z2	7	LEU	CA-C	103.93	3.71	1.52
26	Y2	1117	TYR	CA-C	99.91	3.62	1.52
26	Y2	1211	LEU	CA-C	98.15	3.59	1.52
25	X2	727	SER	N-CA	97.95	3.32	1.46
27	Z1	123	PRO	N-CA	97.04	2.92	1.47
25	X2	727	SER	CA-C	96.29	3.55	1.52
29	b1	7	SER	N-CA	95.37	3.27	1.46
26	Y1	1211	LEU	N-CA	95.28	3.27	1.46
25	X1	726	VAL	CA-C	93.96	2.72	1.52
27	Z1	124	LYS	N-CA	93.82	2.67	1.46
26	Y2	1125	ASP	CA-C	93.75	2.81	1.53
26	Y1	1456	LEU	CA-C	92.95	3.48	1.52
27	Z2	642	ASN	CA-C	92.33	2.76	1.52
27	Z1	642	ASN	CA-C	92.11	2.76	1.52
27	Z1	581	PHE	CA-C	90.97	2.61	1.52
27	Z2	581	PHE	CA-C	90.88	2.61	1.52
27	Z2	120	GLU	N-CA	89.15	3.15	1.46
27	Z2	626	GLY	N-CA	88.81	2.87	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	123	PRO	N-CA	87.59	2.78	1.47
27	Z1	611	GLN	CA-C	85.64	2.64	1.52
26	Y2	1456	LEU	N-CA	85.20	3.08	1.46
27	Z2	669	THR	CA-C	84.92	3.31	1.52
27	Z2	451	SER	CA-C	-84.28	0.39	1.52
27	Z1	582	GLU	N-CA	82.75	2.52	1.46
27	Z2	582	GLU	N-CA	82.73	2.52	1.46
27	Z1	523	ASN	N-CA	82.70	2.52	1.46
26	Y1	1371	VAL	CA-C	80.38	2.54	1.52
26	Y2	1429	LYS	CA-C	78.70	3.18	1.52
25	X1	778	LYS	CA-C	77.45	3.15	1.52
26	Y2	1372	LYS	N-CA	76.88	2.45	1.46
27	Z1	612	ILE	N-CA	75.59	2.89	1.46
27	Z2	452	SER	N-CA	75.53	2.89	1.46
27	Z1	120	GLU	CA-C	74.91	3.10	1.52
26	Y2	1321	MET	N-CA	74.04	2.87	1.46
27	Z1	679	GLU	N-CA	73.30	2.85	1.46
26	Y1	1383	ALA	N-CA	71.49	2.38	1.46
27	Z2	289	PRO	N-CD	70.51	2.46	1.47
27	Z1	289	PRO	N-CD	70.30	2.46	1.47
27	Z1	678	ASN	CA-C	69.61	2.99	1.52
26	Y2	1455	ASN	CA-C	-69.25	0.59	1.52
25	X1	743	GLN	N-CA	68.71	2.76	1.46
25	X2	778	LYS	N-CA	68.13	2.75	1.46
27	Z1	24	ARG	N-CA	-67.53	0.66	1.46
26	Y2	1382	VAL	CA-C	64.11	2.87	1.52
29	b1	7	SER	CA-C	63.77	2.86	1.52
27	Z2	643	SER	N-CA	62.70	2.27	1.46
25	X2	743	GLN	N-CA	62.60	2.65	1.46
27	Z1	643	SER	N-CA	62.53	2.26	1.46
27	Z2	15	ALA	CA-C	62.52	2.36	1.52
27	Z1	23	PRO	CA-C	62.05	2.83	1.52
29	b2	7	SER	N-CA	59.96	2.60	1.46
26	Y1	1456	LEU	N-CA	58.49	2.57	1.46
26	Y2	1412	GLU	N-CA	58.33	2.57	1.46
27	Z2	284	PRO	N-CD	57.42	2.28	1.47
27	Z1	284	PRO	N-CD	57.40	2.28	1.47
26	Y1	1212	ARG	N-CA	56.07	2.11	1.46
26	Y2	1333	ASP	N-CA	55.38	2.17	1.46
26	Y1	1125	ASP	CA-C	-54.39	0.85	1.52
27	Z1	669	THR	N-CA	54.02	2.48	1.46
27	Z2	678	ASN	N-CA	52.90	2.46	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	679	GLU	N-CA	51.43	2.01	1.46
27	Z2	523	ASN	N-CA	-51.10	0.80	1.46
26	Y1	1239	PHE	N-CA	49.58	2.40	1.46
25	X2	726	VAL	CA-C	49.34	2.10	1.52
27	Z1	94	PRO	N-CD	48.12	2.15	1.47
27	Z2	94	PRO	N-CD	47.97	2.15	1.47
29	b2	83	PRO	N-CD	47.62	2.14	1.47
27	Z2	283	GLY	CA-C	-46.89	0.84	1.51
27	Z1	283	GLY	CA-C	-46.87	0.84	1.51
26	Y2	1267	GLU	N-CA	46.06	2.33	1.46
25	X1	727	SER	N-CA	45.32	2.32	1.46
25	X2	788	ASP	N-CA	-45.31	0.60	1.46
27	Z1	15	ALA	CA-C	-45.02	0.92	1.52
29	b1	83	PRO	N-CD	44.65	2.10	1.47
27	Z2	16	SER	N-CA	44.57	2.31	1.46
27	Z1	451	SER	CA-C	44.51	2.12	1.52
27	Z1	640	GLN	CA-C	41.51	2.08	1.52
27	Z2	640	GLN	CA-C	41.39	2.08	1.52
27	Z2	119	GLU	CA-C	40.36	1.86	1.52
27	Z2	668	GLU	CA-C	37.05	2.00	1.52
29	b1	8	THR	N-CA	-36.85	0.79	1.45
25	X2	742	GLN	CA-C	36.41	2.29	1.52
27	Z2	669	THR	N-CA	36.35	2.15	1.46
27	Z1	284	PRO	N-CA	-35.75	1.01	1.47
27	Z2	284	PRO	N-CA	-35.53	1.01	1.47
29	b2	8	THR	N-CA	35.45	2.24	1.45
27	Z2	611	GLN	CA-C	34.77	2.02	1.52
27	Z1	16	SER	N-CA	34.48	2.11	1.46
27	Z2	24	ARG	N-CA	33.88	1.89	1.46
27	Z2	124	LYS	N-CA	-33.11	1.02	1.45
26	Y2	1320	LEU	CA-C	32.37	1.93	1.52
27	Z1	8	SER	N-CA	31.95	1.87	1.46
26	Y1	1455	ASN	CA-C	31.26	1.92	1.52
27	Z2	678	ASN	CA-C	-30.56	0.88	1.52
29	b2	7	SER	CA-C	-30.19	0.89	1.52
26	Y2	1239	PHE	N-CA	29.77	2.02	1.46
27	Z2	123	PRO	N-CD	29.74	1.89	1.47
26	Y2	1383	ALA	N-CA	29.51	1.78	1.46
27	Z1	289	PRO	N-CA	-28.95	1.13	1.47
27	Z2	23	PRO	CA-C	28.59	2.13	1.52
27	Z2	289	PRO	N-CA	-28.58	1.13	1.47
26	Y1	1429	LYS	CA-C	-26.57	0.97	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	39	GLN	CA-C	24.82	1.64	1.52
27	Z1	39	GLN	CA-C	24.74	1.64	1.52
27	Z2	283	GLY	N-CA	22.75	1.75	1.44
27	Z1	283	GLY	N-CA	22.70	1.75	1.44
27	Z1	7	LEU	N-CA	22.09	1.88	1.46
27	Z1	522	GLU	CA-C	21.40	1.97	1.52
25	X1	778	LYS	N-CA	21.16	1.86	1.46
26	Y2	1411	LEU	CA-C	20.62	1.75	1.52
27	Z2	583	ALA	N-CA	-20.37	1.20	1.46
27	Z2	213	PRO	N-CD	20.33	1.76	1.47
27	Z2	581	PHE	N-CA	20.27	1.71	1.46
27	Z1	581	PHE	N-CA	20.25	1.71	1.46
27	Z1	583	ALA	N-CA	-20.25	1.20	1.46
27	Z1	213	PRO	N-CD	20.22	1.76	1.47
29	b1	56	THR	CA-C	19.93	1.76	1.52
26	Y2	1266	ALA	CA-C	-19.89	1.11	1.52
27	Z2	158	ASN	CA-C	-19.77	1.29	1.52
29	b1	55	ASN	N-CA	19.06	1.70	1.46
27	Z1	198	ASN	N-CA	18.19	1.69	1.45
27	Z2	198	ASN	N-CA	18.18	1.69	1.45
29	b2	55	ASN	N-CA	18.18	1.69	1.46
25	X2	789	GLU	N-CA	17.89	1.71	1.46
27	Z1	282	GLN	CA-C	17.82	1.76	1.52
27	Z2	282	GLN	CA-C	17.73	1.76	1.52
27	Z1	288	ASN	CA-C	-17.16	1.31	1.52
27	Z2	288	ASN	CA-C	-17.10	1.31	1.52
27	Z1	91	MET	CA-C	-17.05	1.31	1.52
27	Z2	91	MET	CA-C	-16.98	1.31	1.52
27	Z2	211	PHE	N-CA	16.88	1.68	1.46
25	X1	788	ASP	CA-C	16.87	1.88	1.52
27	Z1	37	PHE	N-CA	16.86	1.66	1.46
27	Z1	211	PHE	N-CA	16.76	1.67	1.46
27	Z2	37	PHE	N-CA	16.72	1.66	1.46
27	Z2	360	ILE	CA-C	16.68	1.71	1.52
27	Z2	123	PRO	CA-C	16.50	1.87	1.52
29	b2	56	THR	N-CA	-16.50	1.25	1.46
27	Z1	360	ILE	CA-C	16.41	1.71	1.52
26	Y2	1371	VAL	CA-C	16.23	1.74	1.52
27	Z2	440	MET	N-CA	16.09	1.65	1.46
25	X2	788	ASP	CA-C	-16.06	1.19	1.52
27	Z1	440	MET	N-CA	16.05	1.65	1.46
27	Z1	99	ASN	CA-C	15.74	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	347	SER	CA-C	15.71	1.71	1.52
29	b2	57	TRP	N-CA	15.70	1.65	1.46
27	Z2	99	ASN	CA-C	15.68	1.72	1.52
26	Y1	1332	LYS	CA-C	15.65	1.85	1.52
29	b2	85	ALA	CA-C	-15.49	1.33	1.52
29	b1	12	LYS	CA-C	15.36	1.67	1.52
29	b2	86	PHE	N-CA	15.33	1.64	1.46
27	Z1	347	SER	CA-C	15.22	1.70	1.52
27	Z1	53	LEU	CA-C	15.17	1.73	1.52
27	Z2	53	LEU	CA-C	15.04	1.73	1.52
27	Z2	329	LYS	CA-C	14.83	1.71	1.52
27	Z1	209	TYR	N-CA	14.79	1.60	1.46
29	b2	9	PRO	N-CD	14.78	1.68	1.47
27	Z2	209	TYR	N-CA	14.68	1.60	1.46
27	Z1	58	ASN	CA-C	14.64	1.71	1.52
27	Z1	329	LYS	CA-C	14.63	1.70	1.52
27	Z2	36	VAL	CA-C	-14.62	1.34	1.52
27	Z2	58	ASN	CA-C	14.55	1.71	1.52
27	Z1	36	VAL	CA-C	-14.48	1.34	1.52
27	Z2	39	GLN	N-CA	14.21	1.62	1.45
29	b2	10	ILE	N-CA	14.07	1.62	1.46
27	Z2	45	TRP	CA-C	14.04	1.70	1.52
27	Z1	39	GLN	N-CA	14.01	1.62	1.45
27	Z2	182	ILE	CA-C	13.97	1.70	1.52
27	Z1	411	GLU	CA-C	13.82	1.69	1.52
27	Z1	339	VAL	CA-C	-13.81	1.37	1.52
27	Z1	45	TRP	CA-C	13.81	1.69	1.52
27	Z1	182	ILE	CA-C	13.79	1.70	1.52
27	Z2	411	GLU	CA-C	13.76	1.69	1.52
27	Z2	34	ARG	CA-C	13.74	1.69	1.52
29	b2	90	LYS	CA-C	13.69	1.69	1.52
29	b2	58	HIS	CA-C	13.64	1.69	1.52
27	Z1	34	ARG	CA-C	13.59	1.69	1.52
29	b1	9	PRO	CA-C	13.56	1.68	1.52
27	Z2	180	ASN	CA-C	13.52	1.69	1.52
27	Z1	150	THR	CA-C	13.46	1.68	1.52
27	Z1	180	ASN	CA-C	13.40	1.69	1.52
27	Z2	290	PHE	CA-C	13.38	1.67	1.52
29	b1	14	SER	CA-C	-13.36	1.36	1.52
27	Z2	165	VAL	CA-C	-13.33	1.36	1.52
27	Z2	316	CYS	N-CA	13.26	1.61	1.45
27	Z2	150	THR	CA-C	13.21	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	290	PHE	CA-C	13.20	1.66	1.52
27	Z1	165	VAL	CA-C	-13.14	1.36	1.52
27	Z2	361	LYS	N-CA	-13.13	1.29	1.46
27	Z1	212	LEU	CA-C	13.13	1.71	1.52
27	Z2	212	LEU	CA-C	13.07	1.71	1.52
27	Z1	316	CYS	N-CA	13.04	1.60	1.45
27	Z2	166	LEU	N-CA	13.02	1.62	1.46
27	Z1	361	LYS	N-CA	-12.99	1.30	1.46
27	Z2	339	VAL	CA-C	-12.99	1.38	1.52
27	Z1	166	LEU	N-CA	12.92	1.62	1.46
27	Z2	71	VAL	N-CA	12.92	1.60	1.46
27	Z1	71	VAL	N-CA	12.90	1.60	1.46
29	b1	67	SER	CA-C	-12.79	1.37	1.52
27	Z2	419	THR	CA-C	-12.76	1.36	1.52
27	Z1	419	THR	CA-C	-12.71	1.36	1.52
27	Z1	380	ILE	CA-C	-12.68	1.36	1.52
27	Z1	340	ASP	N-CA	12.66	1.60	1.45
27	Z2	380	ILE	CA-C	-12.65	1.36	1.52
27	Z1	316	CYS	CA-C	12.64	1.69	1.52
27	Z1	70	HIS	CA-C	-12.63	1.37	1.52
27	Z1	370	LEU	CA-C	-12.63	1.37	1.52
27	Z2	70	HIS	CA-C	-12.62	1.37	1.52
27	Z2	340	ASP	N-CA	12.59	1.60	1.45
27	Z1	45	TRP	N-CA	12.57	1.61	1.45
26	Y2	1430	ASP	N-CA	12.53	1.70	1.46
27	Z2	370	LEU	CA-C	-12.52	1.37	1.52
27	Z2	316	CYS	CA-C	12.45	1.69	1.52
27	Z2	45	TRP	N-CA	12.42	1.61	1.45
29	b1	35	TYR	CA-C	12.28	1.69	1.53
27	Z2	216	LEU	CA-C	12.27	1.67	1.52
27	Z1	216	LEU	CA-C	12.23	1.67	1.52
27	Z2	198	ASN	CA-C	-12.19	1.37	1.52
27	Z1	198	ASN	CA-C	-12.18	1.37	1.52
27	Z2	279	ALA	CA-C	12.14	1.68	1.52
27	Z1	396	CYS	CB-SG	-12.13	1.41	1.81
27	Z2	396	CYS	CB-SG	-12.10	1.41	1.81
27	Z1	185	LEU	CA-C	12.09	1.67	1.52
27	Z1	305	ILE	N-CA	12.07	1.61	1.46
29	b2	67	SER	CA-C	-12.05	1.38	1.52
27	Z2	305	ILE	N-CA	12.04	1.61	1.46
27	Z2	355	LYS	CA-C	12.02	1.67	1.53
27	Z1	279	ALA	CA-C	11.97	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	b1	58	HIS	CA-C	11.96	1.67	1.52
27	Z2	185	LEU	CA-C	11.95	1.67	1.52
27	Z1	355	LYS	CA-C	11.94	1.67	1.53
27	Z2	42	ILE	N-CA	11.88	1.60	1.46
27	Z1	42	ILE	N-CA	11.84	1.60	1.46
27	Z1	315	VAL	CA-C	-11.69	1.41	1.53
27	Z2	315	VAL	CA-C	-11.68	1.41	1.53
27	Z1	84	ASN	CA-C	-11.65	1.39	1.53
27	Z1	196	CYS	CA-C	11.59	1.68	1.52
27	Z2	196	CYS	CA-C	11.53	1.68	1.52
27	Z2	84	ASN	CA-C	-11.48	1.39	1.53
27	Z2	133	HIS	CA-C	11.48	1.66	1.52
27	Z2	91	MET	N-CA	11.43	1.60	1.46
27	Z1	333	MET	CA-C	11.38	1.66	1.52
27	Z1	133	HIS	CA-C	11.36	1.66	1.52
27	Z1	291	PRO	N-CD	11.35	1.63	1.47
27	Z2	291	PRO	N-CD	11.29	1.63	1.47
27	Z2	44	ARG	CA-C	-11.25	1.39	1.52
27	Z1	91	MET	N-CA	11.25	1.60	1.46
29	b1	85	ALA	CA-C	11.23	1.66	1.52
27	Z1	44	ARG	CA-C	-11.17	1.39	1.52
27	Z2	333	MET	CA-C	11.17	1.66	1.52
26	Y1	1267	GLU	N-CA	-11.16	1.32	1.46
29	b2	55	ASN	CA-C	-11.13	1.37	1.52
27	Z1	194	LEU	N-CA	11.07	1.59	1.46
27	Z2	194	LEU	N-CA	11.02	1.59	1.46
27	Z1	367	PRO	N-CD	10.97	1.63	1.47
27	Z1	408	LEU	CA-C	-10.94	1.38	1.52
27	Z2	382	GLN	CA-C	10.94	1.66	1.52
27	Z1	382	GLN	CA-C	10.92	1.66	1.52
27	Z2	625	HIS	CA-C	-10.89	1.30	1.52
29	b2	78	TYR	N-CA	10.86	1.60	1.46
27	Z2	262	ASN	CA-C	-10.83	1.39	1.52
27	Z2	408	LEU	CA-C	-10.83	1.38	1.52
29	b2	11	VAL	CA-C	10.82	1.65	1.52
27	Z1	120	GLU	N-CA	10.81	1.66	1.46
27	Z2	367	PRO	N-CD	10.81	1.62	1.47
29	b2	52	LYS	CA-C	10.79	1.66	1.53
29	b2	56	THR	CA-C	10.76	1.66	1.52
27	Z1	262	ASN	CA-C	-10.74	1.39	1.52
27	Z2	50	THR	CA-C	10.73	1.66	1.53
29	b2	80	TYR	CA-C	-10.68	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	96	GLY	N-CA	10.65	1.59	1.45
27	Z2	304	THR	CA-C	-10.65	1.39	1.52
27	Z2	208	PHE	CA-C	10.64	1.65	1.52
27	Z2	96	GLY	N-CA	10.61	1.59	1.45
27	Z1	50	THR	CA-C	10.58	1.66	1.53
27	Z1	112	PHE	CA-C	-10.57	1.39	1.52
27	Z1	304	THR	CA-C	-10.56	1.39	1.52
27	Z2	180	ASN	N-CA	10.56	1.59	1.45
27	Z1	218	LEU	CA-C	10.51	1.65	1.52
27	Z2	71	VAL	CA-C	10.50	1.65	1.52
27	Z1	207	ALA	N-CA	-10.50	1.33	1.45
27	Z2	112	PHE	CA-C	-10.49	1.39	1.52
27	Z2	207	ALA	N-CA	-10.48	1.33	1.45
27	Z1	208	PHE	CA-C	10.46	1.65	1.52
27	Z1	71	VAL	CA-C	10.44	1.65	1.52
17	Q1	298	SER	CA-C	-10.43	1.40	1.52
27	Z2	218	LEU	CA-C	10.41	1.65	1.52
26	Y1	1283	ILE	N-CA	-10.39	1.34	1.46
27	Z1	200	THR	CA-C	10.37	1.66	1.52
27	Z1	180	ASN	N-CA	10.37	1.59	1.45
17	Q2	298	SER	CA-C	-10.36	1.40	1.52
27	Z1	57	LEU	CA-C	-10.36	1.38	1.53
26	Y2	1283	ILE	N-CA	-10.34	1.34	1.46
27	Z2	270	VAL	CA-C	-10.31	1.39	1.52
27	Z1	69	PHE	CA-C	10.30	1.65	1.52
27	Z1	270	VAL	CA-C	-10.30	1.39	1.52
27	Z2	57	LEU	CA-C	-10.29	1.38	1.53
27	Z2	362	SER	CA-C	-10.26	1.39	1.52
27	Z2	197	LEU	N-CA	-10.24	1.33	1.46
27	Z2	124	LYS	CA-C	-10.23	1.39	1.52
27	Z1	362	SER	CA-C	-10.21	1.39	1.52
27	Z2	69	PHE	CA-C	10.22	1.65	1.52
29	b1	17	THR	CA-C	10.20	1.65	1.52
27	Z1	197	LEU	N-CA	-10.18	1.33	1.46
27	Z2	200	THR	CA-C	10.16	1.66	1.52
27	Z1	209	TYR	CA-C	-10.15	1.40	1.52
29	b2	10	ILE	CA-C	10.12	1.65	1.52
27	Z2	332	GLU	CA-C	10.09	1.66	1.52
29	b1	78	TYR	N-CA	10.02	1.59	1.46
27	Z2	209	TYR	CA-C	-10.02	1.40	1.52
27	Z1	332	GLU	CA-C	10.02	1.66	1.52
27	Z2	344	TYR	N-CA	10.01	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	124	LYS	CA-C	-9.99	1.39	1.52
29	b1	80	TYR	CA-C	-9.99	1.39	1.53
27	Z1	90	VAL	CA-C	-9.94	1.40	1.52
27	Z1	344	TYR	N-CA	9.87	1.58	1.46
29	b2	60	ILE	N-CA	9.85	1.58	1.46
26	Y1	1276	ILE	N-CA	9.82	1.59	1.46
29	b1	77	VAL	CA-C	-9.72	1.40	1.52
26	Y2	1276	ILE	N-CA	9.71	1.59	1.46
27	Z2	90	VAL	CA-C	-9.68	1.41	1.52
29	b2	86	PHE	CA-C	9.67	1.64	1.52
27	Z2	359	GLU	CA-C	-9.63	1.39	1.52
29	b2	88	VAL	N-CA	9.63	1.58	1.46
27	Z1	359	GLU	CA-C	-9.60	1.40	1.52
29	b1	53	TYR	CA-C	9.56	1.64	1.52
27	Z1	281	VAL	CA-C	9.50	1.63	1.52
27	Z1	125	SER	CA-C	9.47	1.65	1.52
27	Z2	281	VAL	CA-C	9.46	1.63	1.52
27	Z2	286	THR	CA-C	9.46	1.64	1.52
27	Z1	286	THR	CA-C	9.44	1.64	1.52
27	Z2	125	SER	CA-C	9.38	1.65	1.52
27	Z2	183	THR	N-CA	-9.35	1.35	1.46
27	Z1	183	THR	N-CA	-9.33	1.35	1.46
29	b2	59	VAL	N-CA	-9.29	1.35	1.46
29	b1	88	VAL	N-CA	9.25	1.58	1.46
26	Y1	1306	ILE	N-CA	-9.22	1.36	1.46
27	Z1	159	SER	N-CA	9.21	1.58	1.45
27	Z1	99	ASN	N-CA	-9.20	1.34	1.46
27	Z1	421	GLU	N-CA	-9.20	1.35	1.47
26	Y2	1306	ILE	N-CA	-9.19	1.36	1.46
27	Z1	196	CYS	N-CA	9.16	1.56	1.45
27	Z1	420	ILE	N-CA	9.11	1.57	1.46
27	Z1	314	ILE	CA-C	9.10	1.64	1.52
27	Z2	407	GLY	CA-C	-9.10	1.39	1.51
27	Z2	314	ILE	CA-C	9.09	1.64	1.52
27	Z2	421	GLU	N-CA	-9.08	1.36	1.47
27	Z2	408	LEU	N-CA	9.08	1.57	1.46
1	A2	891	GLY	C-N	9.06	1.50	1.34
27	Z1	407	GLY	CA-C	-9.04	1.39	1.51
27	Z2	420	ILE	N-CA	9.03	1.57	1.46
1	A1	891	GLY	C-N	9.03	1.50	1.34
29	b2	77	VAL	CA-C	-9.02	1.41	1.52
1	A4	891	GLY	C-N	9.01	1.50	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A3	891	GLY	C-N	9.01	1.50	1.34
27	Z2	305	ILE	CA-C	-9.00	1.41	1.52
29	b1	52	LYS	CA-C	9.00	1.64	1.53
27	Z2	99	ASN	N-CA	-8.99	1.34	1.46
25	X1	742	GLN	CA-C	-8.98	1.34	1.52
27	Z1	42	ILE	CA-C	8.97	1.64	1.52
27	Z1	408	LEU	N-CA	8.96	1.57	1.46
29	b1	11	VAL	CA-C	8.94	1.63	1.52
17	Q2	299	ALA	CA-C	-8.93	1.40	1.52
27	Z2	196	CYS	N-CA	8.92	1.56	1.45
17	Q1	299	ALA	CA-C	-8.91	1.40	1.52
27	Z1	305	ILE	CA-C	-8.91	1.41	1.52
27	Z2	186	GLU	CA-C	8.91	1.64	1.52
26	Y1	1119	GLU	CA-C	8.89	1.63	1.52
27	Z1	238	ASP	N-CA	8.88	1.57	1.45
27	Z2	13	PHE	CA-C	8.87	1.65	1.52
27	Z2	238	ASP	N-CA	8.86	1.57	1.45
26	Y1	1321	MET	N-CA	8.83	1.63	1.46
27	Z1	13	PHE	CA-C	8.83	1.65	1.52
27	Z2	348	LEU	CA-C	8.81	1.62	1.52
29	b1	86	PHE	CA-C	-8.81	1.41	1.52
27	Z1	186	GLU	CA-C	8.78	1.64	1.52
27	Z2	429	ILE	CA-C	8.77	1.63	1.52
27	Z2	42	ILE	CA-C	8.72	1.63	1.52
27	Z1	348	LEU	CA-C	8.67	1.62	1.52
27	Z1	429	ILE	CA-C	8.65	1.63	1.52
27	Z1	360	ILE	N-CA	8.62	1.56	1.46
27	Z2	360	ILE	N-CA	8.62	1.56	1.46
27	Z2	27	PHE	CA-C	8.54	1.63	1.52
27	Z1	154	PHE	CA-C	8.52	1.63	1.52
29	b2	59	VAL	CA-C	-8.48	1.41	1.52
27	Z1	709	THR	N-CA	8.45	1.57	1.46
26	Y2	1124	THR	CA-C	8.42	1.63	1.52
27	Z2	159	SER	N-CA	8.41	1.57	1.46
27	Z1	449	ASN	CA-C	8.41	1.63	1.52
27	Z1	430	ASN	N-CA	-8.40	1.34	1.46
27	Z2	430	ASN	N-CA	-8.40	1.34	1.46
27	Z2	176	ASP	N-CA	8.39	1.57	1.46
27	Z1	350	LEU	CA-C	8.36	1.63	1.52
27	Z2	709	THR	N-CA	8.36	1.57	1.46
27	Z2	154	PHE	CA-C	8.34	1.62	1.52
27	Z1	27	PHE	CA-C	8.32	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	450	ILE	CA-C	-8.27	1.42	1.52
27	Z1	450	ILE	CA-C	-8.27	1.42	1.52
29	b1	60	ILE	N-CA	8.26	1.56	1.46
27	Z1	80	LEU	N-CA	8.26	1.56	1.46
27	Z2	406	ALA	CA-C	8.24	1.63	1.52
27	Z1	406	ALA	CA-C	8.22	1.63	1.52
27	Z2	350	LEU	CA-C	8.22	1.63	1.52
27	Z2	80	LEU	N-CA	8.20	1.56	1.46
29	b2	87	LEU	CA-C	-8.19	1.43	1.52
27	Z1	176	ASP	N-CA	8.18	1.56	1.46
26	Y2	1320	LEU	N-CA	8.16	1.55	1.46
27	Z2	449	ASN	CA-C	8.16	1.62	1.52
25	X1	642	THR	N-CA	-8.14	1.36	1.46
27	Z2	668	GLU	N-CA	-8.13	1.36	1.46
27	Z1	444	THR	CA-C	-8.11	1.41	1.52
27	Z2	192	LEU	CA-C	8.07	1.64	1.52
27	Z2	214	SER	CA-C	8.06	1.63	1.52
26	Y1	1302	ASP	N-CA	8.05	1.56	1.46
29	b1	9	PRO	N-CD	8.03	1.58	1.47
27	Z2	444	THR	CA-C	-8.03	1.42	1.52
26	Y2	1302	ASP	N-CA	8.01	1.56	1.46
27	Z1	192	LEU	CA-C	8.00	1.63	1.52
27	Z1	210	PRO	CA-C	8.00	1.63	1.52
25	X2	642	THR	N-CA	-7.99	1.36	1.46
26	Y2	1227	VAL	N-CA	-7.96	1.37	1.46
26	Y1	1227	VAL	N-CA	-7.95	1.37	1.46
27	Z1	214	SER	CA-C	7.95	1.63	1.52
27	Z1	668	GLU	N-CA	-7.94	1.35	1.46
27	Z1	95	TRP	N-CA	-7.92	1.35	1.46
26	Y1	1435	LYS	N-CA	7.92	1.56	1.46
27	Z2	179	VAL	CA-C	-7.92	1.40	1.52
27	Z2	210	PRO	CA-C	7.91	1.63	1.52
29	b1	59	VAL	CA-C	-7.91	1.42	1.52
27	Z1	178	ARG	N-CA	7.90	1.55	1.46
29	b1	59	VAL	N-CA	-7.89	1.36	1.46
27	Z1	125	SER	N-CA	7.88	1.55	1.46
27	Z1	194	LEU	CA-C	7.87	1.62	1.52
27	Z2	95	TRP	N-CA	-7.87	1.36	1.46
27	Z1	636	ASN	CA-C	7.87	1.62	1.52
27	Z2	448	GLN	CA-C	7.85	1.62	1.52
27	Z2	210	PRO	N-CA	-7.83	1.37	1.47
27	Z2	125	SER	N-CA	7.83	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	179	VAL	CA-C	-7.82	1.40	1.52
29	b1	10	ILE	N-CA	-7.82	1.36	1.46
26	Y2	1435	LYS	N-CA	7.82	1.56	1.46
27	Z1	210	PRO	N-CA	-7.80	1.37	1.47
27	Z2	178	ARG	N-CA	7.76	1.55	1.46
27	Z2	194	LEU	CA-C	7.75	1.62	1.52
27	Z2	241	THR	CA-C	7.75	1.62	1.52
27	Z1	94	PRO	CA-C	7.74	1.63	1.52
27	Z2	267	PHE	N-CA	7.74	1.55	1.45
27	Z1	448	GLN	CA-C	7.72	1.62	1.52
25	X1	701	GLU	CA-C	7.71	1.62	1.52
25	X2	796	ILE	N-CA	7.70	1.55	1.46
27	Z2	636	ASN	CA-C	7.67	1.62	1.52
27	Z1	267	PHE	N-CA	7.66	1.55	1.45
27	Z2	94	PRO	CA-C	7.65	1.63	1.52
29	b1	84	LEU	CA-C	7.64	1.62	1.52
27	Z1	241	THR	CA-C	7.64	1.62	1.52
26	Y1	1320	LEU	N-CA	7.61	1.56	1.46
25	X2	701	GLU	CA-C	7.61	1.62	1.52
25	X1	796	ILE	N-CA	7.61	1.55	1.46
27	Z1	261	GLU	CA-C	7.57	1.62	1.52
27	Z1	225	LEU	CA-C	7.55	1.62	1.52
27	Z1	289	PRO	CA-C	7.55	1.61	1.52
25	X1	669	LEU	CA-C	7.54	1.62	1.52
29	b1	87	LEU	CA-C	-7.54	1.43	1.52
25	X2	669	LEU	CA-C	7.53	1.62	1.52
27	Z2	261	GLU	CA-C	7.53	1.62	1.52
27	Z1	37	PHE	CA-C	7.51	1.60	1.52
27	Z2	404	PRO	N-CA	7.43	1.57	1.47
27	Z2	37	PHE	CA-C	7.41	1.60	1.52
29	b2	84	LEU	N-CA	-7.41	1.36	1.46
29	b1	57	TRP	N-CA	7.41	1.56	1.46
27	Z1	404	PRO	N-CA	7.40	1.57	1.47
27	Z2	412	SER	N-CA	-7.40	1.37	1.46
27	Z2	58	ASN	N-CA	7.36	1.55	1.46
27	Z2	660	SER	N-CA	-7.36	1.37	1.46
27	Z2	423	ILE	CA-C	7.34	1.60	1.52
27	Z2	416	ASP	CA-C	-7.34	1.43	1.52
27	Z1	58	ASN	N-CA	7.30	1.55	1.46
27	Z2	14	GLN	N-CA	-7.30	1.36	1.46
27	Z2	126	SER	N-CA	-7.30	1.36	1.45
27	Z2	289	PRO	CA-C	7.30	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	225	LEU	CA-C	7.29	1.61	1.52
27	Z1	100	VAL	N-CA	-7.26	1.38	1.46
27	Z1	423	ILE	CA-C	7.26	1.60	1.52
27	Z1	155	ASP	N-CA	7.24	1.55	1.46
27	Z2	271	ASP	CA-C	7.23	1.61	1.52
26	Y2	1291	LEU	N-CA	-7.23	1.36	1.46
26	Y2	1219	GLN	CA-C	7.23	1.61	1.52
27	Z1	126	SER	N-CA	-7.23	1.36	1.45
26	Y1	1291	LEU	N-CA	-7.23	1.36	1.46
27	Z2	417	ILE	N-CA	7.22	1.55	1.46
26	Y1	1405	GLN	N-CA	-7.21	1.37	1.46
26	Y1	1213	LEU	N-CA	7.20	1.55	1.46
27	Z1	369	GLN	CA-C	7.20	1.61	1.52
27	Z2	369	GLN	CA-C	7.19	1.61	1.52
25	X2	648	LEU	CA-C	7.16	1.62	1.52
27	Z2	100	VAL	N-CA	-7.16	1.38	1.46
27	Z1	158	ASN	CA-C	-7.15	1.43	1.52
27	Z2	379	ASN	CA-C	7.15	1.61	1.52
29	b1	83	PRO	N-CA	-7.14	1.38	1.47
27	Z1	14	GLN	N-CA	-7.14	1.36	1.46
27	Z2	381	ILE	N-CA	7.14	1.55	1.46
26	Y2	1213	LEU	N-CA	7.12	1.54	1.46
27	Z1	271	ASP	CA-C	7.12	1.61	1.52
27	Z1	660	SER	N-CA	-7.12	1.37	1.46
27	Z1	412	SER	N-CA	-7.12	1.37	1.46
27	Z2	450	ILE	N-CA	-7.11	1.37	1.46
29	b1	36	GLN	CA-C	7.11	1.62	1.52
27	Z1	379	ASN	CA-C	7.10	1.61	1.52
26	Y1	1219	GLN	CA-C	7.09	1.61	1.52
26	Y1	1223	ALA	N-CA	-7.08	1.38	1.46
27	Z2	207	ALA	CA-C	-7.08	1.43	1.52
27	Z1	381	ILE	N-CA	7.08	1.55	1.46
27	Z1	92	GLU	N-CA	7.07	1.55	1.46
27	Z2	155	ASP	N-CA	7.07	1.55	1.46
26	Y2	1274	ASN	N-CA	7.07	1.54	1.46
27	Z1	190	ASP	N-CA	-7.07	1.36	1.46
25	X1	648	LEU	CA-C	7.07	1.61	1.52
25	X2	794	ILE	CA-C	7.06	1.61	1.52
27	Z1	7	LEU	CA-C	-7.05	1.38	1.52
26	Y2	1405	GLN	N-CA	-7.05	1.37	1.46
26	Y2	1223	ALA	N-CA	-7.03	1.38	1.46
27	Z1	450	ILE	N-CA	-7.02	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	333	MET	N-CA	-7.01	1.37	1.46
29	b2	83	PRO	N-CA	-7.01	1.38	1.47
27	Z2	27	PHE	N-CA	7.00	1.54	1.45
26	Y1	1274	ASN	N-CA	7.00	1.54	1.46
27	Z2	291	PRO	CA-C	7.00	1.61	1.52
27	Z2	595	GLN	N-CA	-7.00	1.37	1.46
29	b1	56	THR	N-CA	-6.99	1.38	1.46
25	X1	654	HIS	CA-C	-6.99	1.44	1.52
27	Z2	92	GLU	N-CA	6.97	1.55	1.46
27	Z1	257	SER	N-CA	-6.97	1.38	1.46
27	Z1	27	PHE	N-CA	6.96	1.54	1.45
25	X2	654	HIS	CA-C	-6.96	1.44	1.52
27	Z2	190	ASP	N-CA	-6.96	1.36	1.46
27	Z1	207	ALA	CA-C	-6.95	1.43	1.52
25	X1	754	ASN	N-CA	6.94	1.54	1.46
27	Z1	131	LEU	N-CA	6.94	1.54	1.45
27	Z1	149	ASP	CA-C	-6.94	1.43	1.53
27	Z2	576	ASP	CA-C	6.93	1.61	1.52
27	Z1	291	PRO	CA-C	6.92	1.61	1.52
27	Z2	365	THR	CA-C	6.92	1.60	1.52
29	b2	76	PHE	CA-C	6.91	1.61	1.52
25	X2	653	SER	CA-C	6.91	1.61	1.52
25	X2	754	ASN	N-CA	6.91	1.54	1.46
29	b1	86	PHE	N-CA	-6.91	1.37	1.46
25	X1	653	SER	CA-C	6.91	1.61	1.52
27	Z1	400	SER	N-CA	6.90	1.55	1.46
27	Z2	257	SER	N-CA	-6.90	1.38	1.46
27	Z1	576	ASP	CA-C	6.88	1.61	1.52
25	X1	794	ILE	CA-C	6.87	1.60	1.52
25	X1	685	MET	N-CA	-6.87	1.38	1.46
29	b2	87	LEU	N-CA	-6.87	1.38	1.46
27	Z2	149	ASP	CA-C	-6.86	1.43	1.53
27	Z1	101	GLU	CA-C	6.86	1.61	1.52
26	Y2	1310	VAL	CA-C	-6.86	1.44	1.52
27	Z1	177	ALA	N-CA	6.86	1.54	1.46
27	Z2	424	PRO	N-CA	-6.84	1.39	1.46
27	Z1	233	MET	CA-C	-6.84	1.44	1.52
27	Z2	343	VAL	CA-C	-6.84	1.45	1.53
27	Z2	233	MET	CA-C	-6.83	1.44	1.52
27	Z2	351	ILE	N-CA	-6.83	1.38	1.46
27	Z1	424	PRO	N-CA	-6.83	1.39	1.46
27	Z1	595	GLN	N-CA	-6.83	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A3	808	GLN	C-N	-6.82	1.24	1.33
27	Z1	319	PHE	CA-C	6.82	1.61	1.52
25	X2	685	MET	N-CA	-6.82	1.38	1.46
25	X1	701	GLU	N-CA	-6.81	1.38	1.46
27	Z1	252	GLN	N-CA	-6.81	1.38	1.46
27	Z2	319	PHE	CA-C	6.81	1.61	1.52
27	Z1	351	ILE	N-CA	-6.80	1.38	1.46
27	Z1	333	MET	N-CA	-6.80	1.37	1.46
27	Z2	400	SER	N-CA	6.80	1.54	1.46
1	A2	808	GLN	C-N	-6.78	1.24	1.33
27	Z2	184	ASP	CA-C	-6.77	1.44	1.52
26	Y1	1281	MET	N-CA	-6.77	1.38	1.46
26	Y1	1438	GLU	N-CA	-6.77	1.38	1.46
26	Y1	1310	VAL	CA-C	-6.77	1.44	1.52
26	Y1	1124	THR	CA-C	6.77	1.62	1.53
27	Z2	131	LEU	N-CA	6.77	1.54	1.45
26	Y2	1438	GLU	N-CA	-6.76	1.38	1.46
27	Z2	101	GLU	CA-C	6.76	1.61	1.52
27	Z1	195	TYR	CA-C	-6.74	1.44	1.52
27	Z2	195	TYR	CA-C	-6.73	1.44	1.52
27	Z1	310	GLY	CA-C	6.73	1.61	1.51
25	X2	701	GLU	N-CA	-6.73	1.38	1.46
27	Z2	571	ILE	N-CA	-6.72	1.38	1.46
27	Z2	177	ALA	N-CA	6.71	1.54	1.46
27	Z1	311	GLN	N-CA	-6.70	1.37	1.46
27	Z2	191	GLY	CA-C	6.70	1.61	1.51
27	Z1	343	VAL	CA-C	-6.69	1.46	1.53
27	Z1	191	GLY	CA-C	6.68	1.61	1.51
27	Z1	365	THR	CA-C	6.67	1.60	1.52
25	X2	692	LYS	N-CA	-6.65	1.38	1.46
27	Z1	151	ILE	N-CA	-6.65	1.38	1.46
27	Z1	571	ILE	N-CA	-6.63	1.38	1.46
1	A1	808	GLN	C-N	-6.63	1.25	1.33
27	Z2	85	ASP	CA-C	6.62	1.61	1.52
26	Y2	1281	MET	N-CA	-6.62	1.38	1.46
27	Z1	184	ASP	CA-C	-6.62	1.44	1.52
26	Y1	1300	ARG	N-CA	6.61	1.54	1.46
27	Z2	310	GLY	CA-C	6.61	1.61	1.51
1	A4	808	GLN	C-N	-6.61	1.25	1.33
27	Z2	435	SER	CA-C	-6.59	1.44	1.52
27	Z1	85	ASP	CA-C	6.58	1.61	1.52
27	Z2	265	SER	N-CA	6.58	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	219	ASN	CA-C	-6.57	1.44	1.52
27	Z1	280	LYS	CA-C	6.57	1.60	1.52
26	Y2	1300	ARG	N-CA	6.56	1.54	1.46
27	Z2	152	THR	CA-C	6.55	1.60	1.52
27	Z1	435	SER	CA-C	-6.55	1.44	1.52
27	Z2	219	ASN	CA-C	-6.53	1.44	1.52
27	Z2	311	GLN	N-CA	-6.53	1.38	1.46
27	Z1	265	SER	N-CA	6.53	1.54	1.46
27	Z2	280	LYS	CA-C	6.52	1.60	1.52
25	X1	813	SER	N-CA	-6.52	1.38	1.46
27	Z1	79	LEU	CA-C	-6.52	1.44	1.52
27	Z2	252	GLN	N-CA	-6.50	1.38	1.46
26	Y1	1394	GLY	CA-C	6.50	1.61	1.51
27	Z2	151	ILE	N-CA	-6.50	1.38	1.46
27	Z2	424	PRO	N-CD	6.50	1.56	1.47
27	Z2	268	GLY	N-CA	6.50	1.54	1.45
27	Z2	372	LYS	CA-C	6.50	1.60	1.52
27	Z1	426	LEU	CA-C	-6.49	1.45	1.52
25	X1	751	LEU	N-CA	-6.48	1.38	1.46
27	Z1	268	GLY	N-CA	6.48	1.54	1.45
27	Z1	317	VAL	N-CA	-6.48	1.38	1.46
27	Z2	442	ASN	CA-C	6.47	1.61	1.52
17	Q2	385	THR	C-N	6.45	1.42	1.33
27	Z1	424	PRO	N-CD	6.45	1.56	1.47
29	b1	24	ILE	CA-C	6.45	1.60	1.52
25	X2	751	LEU	N-CA	-6.44	1.38	1.46
27	Z2	567	THR	N-CA	-6.44	1.38	1.46
25	X1	692	LYS	N-CA	-6.44	1.38	1.46
25	X2	774	ASN	CA-C	6.44	1.60	1.52
27	Z2	185	LEU	N-CA	6.43	1.53	1.46
27	Z1	152	THR	CA-C	6.42	1.60	1.52
27	Z2	140	SER	N-CA	-6.42	1.38	1.46
27	Z1	114	TYR	CA-C	-6.42	1.44	1.52
27	Z1	185	LEU	N-CA	6.42	1.53	1.46
26	Y2	1394	GLY	CA-C	6.41	1.60	1.51
25	X1	774	ASN	CA-C	6.40	1.60	1.52
27	Z1	264	ASN	CA-C	-6.39	1.44	1.52
29	b2	20	LEU	N-CA	6.39	1.54	1.46
27	Z2	184	ASP	N-CA	6.39	1.54	1.45
27	Z2	112	PHE	N-CA	6.39	1.53	1.46
25	X2	640	LEU	N-CA	-6.38	1.38	1.46
25	X1	789	GLU	CA-C	6.38	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	X2	813	SER	N-CA	-6.38	1.38	1.46
27	Z1	442	ASN	CA-C	6.37	1.61	1.52
27	Z2	139	ASP	N-CA	6.36	1.55	1.46
26	Y2	1238	PHE	N-CA	6.35	1.54	1.46
27	Z1	567	THR	N-CA	-6.35	1.38	1.46
27	Z1	112	PHE	N-CA	6.35	1.53	1.46
27	Z2	680	TRP	N-CA	6.34	1.54	1.46
27	Z2	317	VAL	N-CA	-6.34	1.39	1.46
27	Z2	426	LEU	CA-C	-6.33	1.45	1.52
25	X1	706	GLU	N-CA	6.33	1.54	1.46
29	b2	84	LEU	CA-C	6.33	1.61	1.52
27	Z1	256	VAL	N-CA	6.33	1.54	1.46
27	Z1	186	GLU	N-CA	-6.32	1.38	1.46
27	Z2	367	PRO	N-CA	6.32	1.55	1.47
17	Q1	385	THR	C-N	6.31	1.42	1.33
26	Y1	1313	ALA	N-CA	6.31	1.54	1.46
27	Z2	79	LEU	CA-C	-6.31	1.45	1.52
27	Z1	56	SER	CA-C	-6.30	1.45	1.52
27	Z1	140	SER	N-CA	-6.30	1.38	1.46
27	Z2	114	TYR	CA-C	-6.29	1.44	1.52
27	Z2	186	GLU	N-CA	-6.29	1.38	1.46
25	X1	640	LEU	N-CA	-6.29	1.38	1.46
27	Z1	372	LYS	CA-C	6.29	1.60	1.52
29	b2	50	ASP	N-CA	6.28	1.53	1.46
26	Y1	1238	PHE	N-CA	6.27	1.54	1.46
29	b2	75	HIS	CD2-NE2	-6.27	1.30	1.37
27	Z2	264	ASN	CA-C	-6.26	1.44	1.52
27	Z2	439	LEU	CA-C	-6.26	1.44	1.53
26	Y2	1397	LYS	N-CA	-6.25	1.38	1.46
27	Z1	139	ASP	N-CA	6.25	1.55	1.46
27	Z1	439	LEU	CA-C	-6.25	1.44	1.53
27	Z2	704	VAL	CA-C	6.25	1.60	1.52
27	Z1	704	VAL	CA-C	6.24	1.60	1.52
27	Z2	256	VAL	N-CA	6.24	1.53	1.46
27	Z2	56	SER	CA-C	-6.22	1.45	1.52
27	Z1	111	ILE	CA-C	6.21	1.60	1.52
26	Y2	1222	GLU	N-CA	6.21	1.53	1.46
26	Y2	1313	ALA	N-CA	6.21	1.54	1.46
27	Z1	184	ASP	N-CA	6.20	1.54	1.45
26	Y1	1397	LYS	N-CA	-6.18	1.38	1.46
27	Z1	582	GLU	CA-C	-6.18	1.44	1.52
27	Z1	367	PRO	N-CA	6.17	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	582	GLU	CA-C	-6.17	1.44	1.52
27	Z1	680	TRP	N-CA	6.16	1.54	1.46
25	X1	656	GLU	N-CA	-6.15	1.39	1.46
27	Z2	89	PHE	N-CA	6.15	1.53	1.46
27	Z2	215	VAL	CA-C	6.15	1.60	1.52
25	X2	694	ASP	N-CA	-6.15	1.39	1.46
27	Z2	272	ILE	N-CA	-6.15	1.38	1.46
27	Z2	115	SER	N-CA	6.14	1.53	1.45
25	X1	694	ASP	N-CA	-6.14	1.39	1.46
25	X1	705	ASP	N-CA	-6.13	1.39	1.46
27	Z1	94	PRO	N-CA	6.13	1.55	1.47
26	Y1	1222	GLU	N-CA	6.13	1.53	1.46
27	Z1	272	ILE	N-CA	-6.13	1.38	1.46
27	Z2	111	ILE	CA-C	6.12	1.60	1.52
25	X2	656	GLU	N-CA	-6.12	1.39	1.46
25	X1	799	SER	N-CA	-6.12	1.39	1.46
25	X2	758	LEU	N-CA	-6.11	1.39	1.46
29	b2	50	ASP	CA-C	6.09	1.60	1.52
25	X2	665	TRP	N-CA	-6.09	1.39	1.46
27	Z2	608	LYS	N-CA	6.08	1.53	1.46
27	Z1	146	LYS	CA-C	6.08	1.61	1.53
27	Z1	89	PHE	N-CA	6.08	1.53	1.46
29	b1	87	LEU	N-CA	6.08	1.53	1.46
27	Z2	72	ILE	CA-C	6.06	1.59	1.52
26	Y2	1454	LYS	CA-C	6.04	1.60	1.52
29	b1	90	LYS	N-CA	6.04	1.53	1.46
27	Z1	608	LYS	N-CA	6.04	1.53	1.46
29	b1	19	LYS	CA-C	6.03	1.60	1.52
27	Z1	215	VAL	CA-C	6.03	1.59	1.52
27	Z2	317	VAL	CA-C	6.03	1.59	1.52
27	Z1	135	LYS	N-CA	-6.03	1.38	1.46
27	Z1	707	GLU	N-CA	-6.03	1.39	1.46
27	Z1	366	LEU	N-CA	-6.02	1.38	1.46
26	Y2	1432	LYS	N-CA	-6.00	1.39	1.46
25	X2	799	SER	N-CA	-6.00	1.39	1.46
25	X1	665	TRP	N-CA	-5.99	1.39	1.46
26	Y2	1365	ILE	C-O	5.99	1.31	1.23
27	Z2	70	HIS	N-CA	-5.99	1.38	1.46
26	Y1	1432	LYS	N-CA	-5.98	1.39	1.46
27	Z2	337	TRP	CA-C	5.97	1.58	1.52
26	Y2	1120	SER	CA-C	-5.97	1.45	1.52
29	b1	76	PHE	CA-C	5.97	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	Y2	1215	GLU	N-CA	5.97	1.53	1.46
29	b1	69	VAL	N-CA	-5.97	1.39	1.46
26	Y1	1365	ILE	C-O	5.97	1.31	1.23
27	Z1	55	HIS	CD2-NE2	-5.97	1.31	1.37
27	Z1	560	LEU	CA-C	5.96	1.60	1.52
27	Z2	144	VAL	N-CA	5.96	1.53	1.46
27	Z2	708	PHE	C-O	5.96	1.31	1.24
26	Y1	1454	LYS	CA-C	5.96	1.60	1.52
27	Z1	70	HIS	N-CA	-5.96	1.38	1.46
27	Z2	560	LEU	CA-C	5.96	1.60	1.52
26	Y2	1314	LYS	N-CA	5.96	1.53	1.46
27	Z1	177	ALA	CA-C	5.96	1.60	1.52
27	Z1	691	SER	N-CA	-5.96	1.39	1.46
27	Z2	113	HIS	N-CA	5.95	1.53	1.45
26	Y2	1271	ASN	N-CA	5.94	1.53	1.46
25	X1	791	ILE	N-CA	5.94	1.54	1.46
27	Z2	177	ALA	CA-C	5.93	1.60	1.52
27	Z1	317	VAL	CA-C	5.93	1.59	1.52
27	Z2	146	LYS	CA-C	5.92	1.61	1.53
27	Z2	94	PRO	N-CA	5.92	1.54	1.47
26	Y2	1227	VAL	CA-C	5.92	1.60	1.52
27	Z2	135	LYS	N-CA	-5.91	1.38	1.46
27	Z2	29	SER	CA-C	5.91	1.60	1.52
26	Y1	1433	GLY	CA-C	5.91	1.58	1.52
27	Z2	88	ILE	N-CA	5.91	1.54	1.46
27	Z1	9	ALA	CA-C	-5.90	1.45	1.52
25	X1	758	LEU	N-CA	-5.90	1.39	1.46
25	X2	800	HIS	CD2-NE2	-5.90	1.31	1.37
27	Z2	707	GLU	N-CA	-5.90	1.39	1.46
27	Z2	691	SER	N-CA	-5.89	1.39	1.46
27	Z1	115	SER	N-CA	5.89	1.53	1.45
26	Y1	1121	GLY	N-CA	5.89	1.53	1.45
27	Z2	366	LEU	N-CA	-5.88	1.38	1.46
26	Y2	1313	ALA	C-O	5.87	1.31	1.24
25	X1	800	HIS	CD2-NE2	-5.86	1.31	1.37
27	Z2	55	HIS	CD2-NE2	-5.86	1.31	1.37
27	Z1	88	ILE	N-CA	5.84	1.54	1.46
27	Z1	113	HIS	CD2-NE2	-5.84	1.31	1.37
27	Z1	271	ASP	N-CA	5.83	1.53	1.46
27	Z1	72	ILE	CA-C	5.83	1.59	1.52
25	X2	791	ILE	N-CA	5.82	1.53	1.46
26	Y1	1314	LYS	N-CA	5.82	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	213	PRO	N-CA	-5.82	1.39	1.47
26	Y2	1120	SER	N-CA	5.81	1.53	1.46
27	Z1	337	TRP	CA-C	5.81	1.58	1.52
27	Z1	55	HIS	CG-ND1	-5.81	1.31	1.38
29	b1	75	HIS	N-CA	5.81	1.54	1.46
26	Y1	1215	GLU	N-CA	5.81	1.53	1.46
26	Y2	1123	GLN	N-CA	5.80	1.53	1.46
27	Z2	55	HIS	CG-ND1	-5.80	1.31	1.38
26	Y1	1401	LEU	N-CA	-5.80	1.39	1.46
27	Z1	708	PHE	C-O	5.80	1.30	1.24
27	Z2	83	PHE	CA-C	5.79	1.59	1.52
17	Q2	298	SER	N-CA	-5.78	1.39	1.46
27	Z1	83	PHE	CA-C	5.78	1.59	1.52
29	b1	31	ALA	N-CA	-5.78	1.39	1.46
26	Y1	1271	ASN	N-CA	5.76	1.53	1.46
29	b1	55	ASN	CA-C	-5.76	1.45	1.52
27	Z2	26	ILE	CA-C	-5.75	1.45	1.52
27	Z2	271	ASP	N-CA	5.75	1.53	1.46
27	Z1	263	TRP	N-CA	5.74	1.53	1.46
26	Y1	1313	ALA	C-O	5.73	1.31	1.24
26	Y2	1383	ALA	CA-C	5.73	1.59	1.53
27	Z1	113	HIS	N-CA	5.73	1.53	1.45
25	X2	705	ASP	N-CA	-5.73	1.38	1.46
27	Z1	140	SER	CA-C	5.73	1.60	1.52
27	Z2	9	ALA	CA-C	-5.72	1.45	1.52
27	Z2	706	GLN	N-CA	5.72	1.53	1.46
27	Z1	213	PRO	N-CA	-5.71	1.40	1.47
26	Y1	1227	VAL	CA-C	5.70	1.59	1.52
27	Z2	113	HIS	CD2-NE2	-5.70	1.31	1.37
26	Y2	1356	ILE	N-CA	-5.69	1.39	1.46
27	Z2	263	TRP	N-CA	5.69	1.53	1.46
17	Q1	386	PHE	N-CA	5.68	1.53	1.46
25	X1	670	VAL	N-CA	5.67	1.53	1.46
25	X1	668	VAL	N-CA	-5.67	1.39	1.46
29	b2	79	PHE	N-CA	-5.67	1.38	1.45
27	Z1	666	GLU	N-CA	-5.66	1.39	1.46
26	Y1	1453	PHE	N-CA	5.66	1.53	1.46
27	Z1	29	SER	CA-C	5.66	1.59	1.52
17	Q1	298	SER	N-CA	-5.64	1.39	1.46
26	Y1	1445	THR	N-CA	5.64	1.53	1.46
26	Y2	1433	GLY	CA-C	5.64	1.58	1.52
29	b1	50	ASP	CA-C	5.64	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	287	ILE	CA-C	5.64	1.60	1.53
27	Z1	366	LEU	CA-C	5.62	1.57	1.52
27	Z1	144	VAL	N-CA	5.62	1.53	1.46
27	Z2	140	SER	CA-C	5.61	1.60	1.52
25	X2	668	VAL	N-CA	-5.60	1.39	1.46
27	Z2	405	LEU	N-CA	-5.60	1.38	1.46
25	X2	726	VAL	N-CA	5.60	1.52	1.46
27	Z1	348	LEU	N-CA	5.60	1.53	1.46
27	Z2	655	LEU	CA-C	-5.60	1.45	1.52
26	Y1	1356	ILE	N-CA	-5.60	1.39	1.46
27	Z1	38	ILE	CA-C	-5.60	1.45	1.52
26	Y2	1123	GLN	CA-C	-5.59	1.45	1.52
27	Z1	655	LEU	CA-C	-5.59	1.45	1.52
26	Y2	1358	HIS	N-CA	-5.58	1.39	1.46
27	Z1	26	ILE	CA-C	-5.58	1.45	1.52
27	Z1	405	LEU	N-CA	-5.56	1.38	1.46
27	Z1	188	SER	CA-C	-5.56	1.45	1.52
26	Y2	1401	LEU	N-CA	-5.55	1.39	1.46
26	Y1	1358	HIS	N-CA	-5.55	1.39	1.46
27	Z1	202	GLY	N-CA	5.55	1.53	1.45
25	X2	763	SER	N-CA	-5.54	1.39	1.46
25	X2	670	VAL	N-CA	5.54	1.53	1.46
27	Z2	267	PHE	CA-C	-5.54	1.45	1.52
27	Z1	267	PHE	CA-C	-5.54	1.45	1.52
27	Z2	188	SER	CA-C	-5.54	1.45	1.52
26	Y2	1384	LYS	N-CA	-5.53	1.39	1.46
17	Q2	386	PHE	N-CA	5.53	1.53	1.46
27	Z2	342	TYR	CA-C	-5.53	1.45	1.53
27	Z2	202	GLY	N-CA	5.51	1.53	1.45
27	Z2	206	PHE	CA-C	5.51	1.60	1.52
27	Z1	706	GLN	N-CA	5.50	1.53	1.46
25	X1	797	LEU	N-CA	-5.49	1.39	1.46
27	Z2	383	GLN	N-CA	-5.49	1.39	1.46
27	Z2	115	SER	CA-C	-5.49	1.46	1.52
27	Z1	174	GLY	CA-C	-5.48	1.44	1.51
27	Z2	211	PHE	CA-C	-5.48	1.45	1.52
27	Z2	666	GLU	N-CA	-5.48	1.39	1.46
27	Z1	218	LEU	N-CA	5.48	1.52	1.46
27	Z1	40	ASP	N-CA	5.47	1.54	1.46
27	Z1	378	ASP	N-CA	5.47	1.53	1.46
27	Z2	40	ASP	N-CA	5.47	1.54	1.46
27	Z2	659	LYS	CA-C	-5.47	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	38	ILE	CA-C	-5.46	1.46	1.52
25	X1	642	THR	CA-C	5.46	1.59	1.52
27	Z1	698	ASN	CA-C	5.45	1.59	1.52
27	Z2	378	ASP	N-CA	5.45	1.53	1.46
26	Y1	1384	LYS	N-CA	-5.44	1.40	1.46
27	Z1	427	ALA	N-CA	5.44	1.52	1.45
27	Z2	218	LEU	N-CA	5.44	1.52	1.46
25	X1	760	SER	CA-C	5.43	1.59	1.52
27	Z2	336	SER	CA-C	5.43	1.59	1.52
26	Y2	1121	GLY	N-CA	5.42	1.53	1.45
26	Y2	1445	THR	N-CA	5.42	1.52	1.46
27	Z1	336	SER	N-CA	5.42	1.52	1.46
25	X2	760	SER	CA-C	5.42	1.59	1.52
27	Z1	336	SER	CA-C	5.41	1.59	1.52
29	b1	10	ILE	CA-C	5.40	1.59	1.52
27	Z2	282	GLN	N-CA	-5.40	1.38	1.45
26	Y2	1453	PHE	N-CA	5.40	1.53	1.46
26	Y1	1299	VAL	CA-C	5.40	1.59	1.52
27	Z1	342	TYR	CA-C	-5.40	1.46	1.53
25	X2	776	PHE	CA-C	5.39	1.59	1.52
25	X1	776	PHE	CA-C	5.39	1.59	1.52
25	X2	642	THR	CA-C	5.39	1.59	1.52
25	X1	763	SER	N-CA	-5.38	1.39	1.46
29	b2	92	ALA	C-OXT	5.38	1.34	1.23
25	X1	704	GLN	N-CA	-5.38	1.39	1.46
29	b2	75	HIS	CG-ND1	-5.37	1.32	1.38
27	Z2	698	ASN	CA-C	5.37	1.59	1.52
29	b1	64	ASN	N-CA	5.37	1.52	1.46
27	Z2	168	LYS	CA-C	-5.37	1.47	1.53
27	Z2	373	LEU	N-CA	5.37	1.52	1.45
27	Z2	174	GLY	CA-C	-5.36	1.44	1.51
27	Z1	378	ASP	CA-C	-5.36	1.45	1.52
27	Z2	427	ALA	N-CA	5.36	1.52	1.45
25	X1	705	ASP	CA-C	5.35	1.59	1.52
27	Z1	287	ILE	CA-C	5.34	1.60	1.53
27	Z2	366	LEU	CA-C	5.34	1.57	1.52
26	Y1	1312	ASN	N-CA	-5.33	1.40	1.46
27	Z1	134	PRO	N-CA	-5.33	1.41	1.47
17	Q2	297	LEU	CA-C	-5.32	1.45	1.52
27	Z2	431	TRP	CA-C	5.32	1.58	1.52
25	X2	745	TYR	N-CA	5.31	1.53	1.46
25	X1	654	HIS	N-CA	-5.31	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	348	LEU	N-CA	5.31	1.53	1.46
27	Z1	282	GLN	N-CA	-5.30	1.39	1.45
27	Z1	327	LEU	N-CA	5.30	1.52	1.45
26	Y2	1312	ASN	N-CA	-5.30	1.40	1.46
27	Z2	336	SER	N-CA	5.30	1.52	1.46
26	Y2	1299	VAL	CA-C	5.29	1.59	1.52
27	Z1	36	VAL	N-CA	5.29	1.53	1.46
27	Z2	327	LEU	N-CA	5.29	1.52	1.45
27	Z1	611	GLN	N-CA	-5.29	1.39	1.46
25	X2	797	LEU	N-CA	-5.29	1.40	1.46
27	Z2	134	PRO	N-CA	-5.29	1.41	1.47
26	Y1	1352	VAL	CA-C	5.29	1.59	1.52
27	Z1	383	GLN	N-CA	-5.28	1.39	1.46
27	Z2	378	ASP	CA-C	-5.28	1.45	1.52
26	Y1	1288	ILE	N-CA	5.27	1.52	1.46
27	Z1	373	LEU	N-CA	5.26	1.52	1.45
27	Z1	659	LYS	CA-C	-5.26	1.46	1.52
27	Z2	437	LEU	CA-C	5.26	1.58	1.52
27	Z1	206	PHE	CA-C	5.26	1.59	1.52
25	X1	726	VAL	N-CA	5.24	1.52	1.46
29	b2	88	VAL	CA-C	5.24	1.59	1.52
25	X1	745	TYR	N-CA	5.24	1.53	1.46
26	Y2	1234	ASN	N-CA	-5.24	1.40	1.46
26	Y2	1352	VAL	CA-C	5.23	1.59	1.52
26	Y2	1288	ILE	N-CA	5.23	1.52	1.46
29	b2	64	ASN	N-CA	5.23	1.52	1.46
27	Z1	294	LEU	N-CA	5.23	1.52	1.46
27	Z1	211	PHE	CA-C	-5.22	1.45	1.52
27	Z2	294	LEU	N-CA	5.22	1.52	1.46
27	Z2	596	SER	CA-C	5.22	1.59	1.52
27	Z1	168	LYS	CA-C	-5.22	1.47	1.53
26	Y1	1234	ASN	N-CA	-5.22	1.40	1.46
27	Z1	286	THR	N-CA	-5.22	1.39	1.46
27	Z2	36	VAL	N-CA	5.22	1.52	1.46
27	Z2	31	ASN	N-CA	5.21	1.54	1.46
29	b2	69	VAL	N-CA	-5.21	1.40	1.46
27	Z1	115	SER	CA-C	-5.21	1.46	1.52
29	b2	48	GLN	CA-C	5.20	1.59	1.52
27	Z1	382	GLN	N-CA	5.20	1.51	1.45
29	b2	34	LYS	CA-C	-5.20	1.46	1.52
29	b2	68	TYR	N-CA	5.19	1.52	1.46
27	Z1	285	PHE	CA-C	5.19	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z1	627	GLU	N-CA	-5.18	1.40	1.46
27	Z2	312	ASN	N-CA	5.18	1.52	1.46
27	Z1	446	THR	N-CA	-5.18	1.39	1.46
27	Z2	409	LYS	N-CA	5.18	1.52	1.46
17	Q1	297	LEU	CA-C	-5.18	1.46	1.52
27	Z1	431	TRP	CA-C	5.17	1.58	1.52
27	Z1	312	ASN	N-CA	5.17	1.52	1.46
27	Z2	446	THR	N-CA	-5.17	1.39	1.46
27	Z2	344	TYR	CA-C	-5.16	1.45	1.52
27	Z1	437	LEU	CA-C	5.16	1.58	1.52
25	X1	641	VAL	N-CA	5.15	1.52	1.46
25	X2	704	GLN	N-CA	-5.15	1.39	1.46
27	Z1	596	SER	CA-C	5.15	1.59	1.52
25	X1	676	ILE	N-CA	5.15	1.52	1.46
26	Y1	1274	ASN	CA-C	5.14	1.59	1.52
25	X2	654	HIS	N-CA	-5.13	1.40	1.46
26	Y2	1456	LEU	C-O	-5.12	1.13	1.23
27	Z1	31	ASN	N-CA	5.12	1.54	1.46
27	Z1	409	LYS	N-CA	5.11	1.52	1.46
27	Z1	344	TYR	CA-C	-5.11	1.46	1.52
25	X1	801	PHE	N-CA	-5.11	1.40	1.46
25	X1	822	LYS	N-CA	-5.11	1.40	1.46
27	Z1	347	SER	N-CA	-5.10	1.39	1.45
25	X2	801	PHE	N-CA	-5.10	1.40	1.46
25	X2	641	VAL	N-CA	5.09	1.52	1.46
27	Z2	611	GLN	N-CA	-5.09	1.39	1.46
29	b1	79	PHE	N-CA	-5.08	1.39	1.45
26	Y2	1274	ASN	CA-C	5.08	1.59	1.52
27	Z1	713	GLN	C-OXT	5.07	1.33	1.23
27	Z2	286	THR	N-CA	-5.07	1.39	1.46
27	Z2	627	GLU	N-CA	-5.07	1.40	1.46
27	Z2	402	LEU	CA-C	5.05	1.59	1.52
29	b1	88	VAL	CA-C	5.05	1.59	1.52
27	Z2	131	LEU	CA-C	5.04	1.58	1.52
27	Z2	153	MET	CA-C	5.04	1.58	1.52
27	Z2	382	GLN	N-CA	5.04	1.51	1.45
27	Z1	143	VAL	CA-C	-5.04	1.48	1.53
27	Z2	705	SER	N-CA	-5.04	1.40	1.46
27	Z1	153	MET	CA-C	5.03	1.58	1.52
26	Y2	1387	LYS	CA-C	-5.03	1.46	1.52
26	Y2	1443	MET	CA-C	5.02	1.59	1.52
27	Z1	402	LEU	CA-C	5.02	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	Z2	279	ALA	N-CA	-5.02	1.39	1.45
27	Z2	347	SER	N-CA	-5.01	1.40	1.45
25	X2	822	LYS	N-CA	-5.01	1.40	1.46
25	X2	671	LYS	N-CA	5.01	1.52	1.46
27	Z2	368	GLU	CA-C	5.01	1.59	1.52
27	Z2	111	ILE	N-CA	5.00	1.52	1.46
27	Z2	143	VAL	CA-C	-5.00	1.48	1.53

All (2805) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	123	PRO	CA-N-CD	-67.19	17.93	112.00
25	X1	777	ASN	CA-C-N	-59.10	15.32	121.70
25	X1	777	ASN	C-N-CA	-59.10	15.32	121.70
26	Y1	1238	PHE	CA-C-N	-56.08	20.76	121.70
26	Y1	1238	PHE	C-N-CA	-56.08	20.76	121.70
27	Z2	625	HIS	CA-C-O	-55.33	26.73	120.80
26	Y1	1125	ASP	CA-C-N	-55.06	22.60	121.70
26	Y1	1125	ASP	C-N-CA	-55.06	22.60	121.70
27	Z1	23	PRO	CA-N-CD	-54.48	35.72	112.00
26	Y1	1411	LEU	CA-C-N	-53.97	24.55	121.70
26	Y1	1411	LEU	C-N-CA	-53.97	24.55	121.70
25	X2	777	ASN	CA-C-N	-53.91	24.66	121.70
25	X2	777	ASN	C-N-CA	-53.91	24.66	121.70
25	X2	742	GLN	CA-C-O	-53.27	30.24	120.80
25	X1	742	GLN	CA-C-O	-52.09	32.25	120.80
27	Z1	641	PHE	N-CA-C	-52.04	31.42	108.96
27	Z2	641	PHE	N-CA-C	-52.03	31.43	108.96
27	Z1	451	SER	CA-C-N	-51.50	29.00	121.70
27	Z1	451	SER	C-N-CA	-51.50	29.00	121.70
27	Z2	23	PRO	CA-N-CD	-51.00	40.59	112.00
27	Z1	678	ASN	CA-C-O	-50.11	35.60	120.80
26	Y2	1125	ASP	CA-C-N	-49.27	33.01	121.70
26	Y2	1125	ASP	C-N-CA	-49.27	33.01	121.70
26	Y1	1371	VAL	CA-C-N	-49.03	33.44	121.70
26	Y1	1371	VAL	C-N-CA	-49.03	33.44	121.70
26	Y1	1320	LEU	CA-C-N	-48.86	33.75	121.70
26	Y1	1320	LEU	C-N-CA	-48.86	33.75	121.70
27	Z2	640	GLN	CA-C-N	-48.83	41.79	121.87
27	Z2	640	GLN	C-N-CA	-48.83	41.79	121.87
27	Z1	640	GLN	CA-C-N	-48.78	41.87	121.87
27	Z1	640	GLN	C-N-CA	-48.78	41.87	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	611	GLN	CA-C-N	-48.17	35.00	121.70
27	Z2	611	GLN	C-N-CA	-48.17	35.00	121.70
26	Y2	1238	PHE	CA-C-N	-48.10	35.12	121.70
26	Y2	1238	PHE	C-N-CA	-48.10	35.12	121.70
27	Z1	668	GLU	CA-C-N	-47.38	36.42	121.70
27	Z1	668	GLU	C-N-CA	-47.38	36.42	121.70
27	Z2	15	ALA	N-CA-CB	-47.33	30.51	110.49
26	Y2	1321	MET	CB-CA-C	-46.83	21.12	110.10
26	Y2	1320	LEU	N-CA-C	46.48	161.63	110.97
27	Z1	124	LYS	CB-CA-C	-46.31	18.27	110.42
26	Y1	1456	LEU	CB-CA-C	-44.42	25.70	110.10
26	Y1	1455	ASN	N-CA-C	44.39	159.08	111.14
27	Z2	119	GLU	CA-C-N	-42.86	44.55	121.70
27	Z2	119	GLU	C-N-CA	-42.86	44.55	121.70
27	Z1	23	PRO	N-CD-CG	41.91	166.06	103.20
26	Y2	1321	MET	N-CA-CB	-41.68	39.64	110.50
27	Z2	678	ASN	CA-C-O	-41.49	50.26	120.80
27	Z1	611	GLN	CA-C-N	-40.43	48.93	121.70
27	Z1	611	GLN	C-N-CA	-40.43	48.93	121.70
26	Y2	1125	ASP	N-CA-C	37.93	161.75	110.55
17	Q1	626	ASN	CB-CG-OD1	-37.90	45.00	120.80
17	Q2	626	ASN	CB-CG-OD1	-37.87	45.07	120.80
27	Z2	123	PRO	CA-N-CD	-37.69	59.23	112.00
27	Z1	642	ASN	N-CA-C	-37.47	30.99	110.80
27	Z2	642	ASN	N-CA-C	-37.47	30.99	110.80
26	Y2	1266	ALA	CA-C-O	-37.04	57.84	120.80
26	Y2	1455	ASN	CA-C-O	36.97	173.37	120.51
26	Y2	1266	ALA	CB-CA-C	36.39	165.08	110.50
27	Z2	7	LEU	CA-C-N	-36.20	58.70	125.66
27	Z2	7	LEU	C-N-CA	-36.20	58.70	125.66
26	Y2	1211	LEU	N-CA-C	-36.18	9.69	111.00
25	X2	742	GLN	N-CA-C	-36.09	9.94	111.00
27	Z1	678	ASN	N-CA-C	-35.92	10.42	111.00
27	Z1	15	ALA	CA-C-O	-35.59	69.61	120.51
26	Y2	1212	ARG	N-CA-CB	35.21	170.00	110.49
26	Y1	1412	GLU	CB-CA-C	-34.87	43.85	110.10
26	Y2	1411	LEU	CB-CA-C	-34.73	59.54	110.24
25	X1	726	VAL	CA-C-N	-34.61	59.41	121.70
25	X1	726	VAL	C-N-CA	-34.61	59.41	121.70
27	Z2	452	SER	N-CA-C	-34.51	14.37	111.00
25	X1	742	GLN	N-CA-C	-34.40	14.68	111.00
25	X2	726	VAL	CA-C-N	-34.20	60.13	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	X2	726	VAL	C-N-CA	-34.20	60.13	121.70
25	X1	638	ASP	N-CA-CB	34.12	168.16	110.49
26	Y1	1126	LEU	N-CA-C	-34.06	15.62	111.00
25	X2	797	LEU	N-CA-CB	33.80	159.81	110.12
25	X1	637	LEU	N-CA-C	-33.72	16.58	111.00
27	Z2	23	PRO	N-CD-CG	33.72	153.78	103.20
26	Y2	1430	ASP	N-CA-CB	-33.61	53.36	110.50
26	Y2	1117	TYR	N-CA-C	-33.16	18.15	111.00
27	Z1	581	PHE	N-CA-C	-33.03	50.23	108.69
27	Z2	581	PHE	N-CA-C	-32.99	50.29	108.69
27	Z1	23	PRO	N-CA-C	-32.63	30.52	112.10
25	X2	637	LEU	N-CA-C	-32.62	19.67	111.00
26	Y2	1372	LYS	N-CA-C	-32.33	41.94	110.80
27	Z2	7	LEU	N-CA-C	-32.20	20.84	111.00
27	Z1	209	TYR	CA-C-O	32.10	150.19	118.73
27	Z2	209	TYR	CA-C-O	32.03	150.12	118.73
27	Z2	625	HIS	CB-CA-C	31.99	170.88	110.10
27	Z2	23	PRO	N-CA-C	-31.83	32.53	112.10
27	Z2	451	SER	CA-C-O	-31.81	75.03	120.51
25	X2	727	SER	N-CA-CB	31.67	164.34	110.50
27	Z1	452	SER	N-CA-C	-31.66	22.34	111.00
29	b2	7	SER	CA-C-O	-31.65	66.99	120.80
27	Z2	523	ASN	N-CA-CB	-31.47	57.30	110.49
27	Z1	124	LYS	N-CA-CB	31.46	163.66	110.49
27	Z2	522	GLU	N-CA-C	-31.37	23.16	111.00
27	Z2	15	ALA	CB-CA-C	31.12	172.35	110.42
27	Z1	123	PRO	CB-CA-C	30.89	168.79	110.10
27	Z2	16	SER	N-CA-C	-30.82	24.70	111.00
26	Y1	1117	TYR	N-CA-C	-30.79	24.79	111.00
27	Z1	120	GLU	N-CA-C	-30.40	25.87	111.00
27	Z2	15	ALA	CA-C-N	-30.38	67.02	121.70
27	Z2	15	ALA	C-N-CA	-30.38	67.02	121.70
27	Z2	158	ASN	CA-C-O	-29.95	87.98	120.33
25	X1	727	SER	CB-CA-C	-29.86	53.37	110.10
27	Z2	120	GLU	N-CA-C	-29.80	27.55	111.00
27	Z2	678	ASN	N-CA-CB	-29.70	60.00	110.50
25	X1	788	ASP	N-CA-C	-29.68	27.90	111.00
26	Y1	1372	LYS	CB-CA-C	29.58	166.30	110.10
25	X2	778	LYS	N-CA-C	-29.50	28.39	111.00
25	X2	788	ASP	N-CA-C	-29.48	28.47	111.00
25	X2	638	ASP	N-CA-CB	29.39	160.16	110.49
27	Z1	343	VAL	N-CA-C	29.10	137.81	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	343	VAL	N-CA-C	29.06	137.77	111.91
25	X2	788	ASP	CB-CA-C	28.97	165.14	110.10
27	Z2	123	PRO	N-CD-CG	28.89	146.53	103.20
29	b1	55	ASN	N-CA-CB	28.81	159.18	110.49
26	Y2	1126	LEU	N-CA-C	-28.57	31.00	111.00
29	b1	55	ASN	CA-C-O	28.42	161.15	120.51
27	Z2	582	GLU	CA-C-O	-28.34	79.99	120.51
27	Z1	582	GLU	CA-C-O	-28.32	80.01	120.51
27	Z2	668	GLU	CB-CA-C	-28.30	64.66	110.79
29	b2	7	SER	CB-CA-C	28.27	163.81	110.10
29	b1	55	ASN	CB-CA-C	-28.22	54.26	110.42
27	Z1	16	SER	N-CA-CB	27.89	157.91	110.50
27	Z2	669	THR	N-CA-CB	27.79	158.75	111.50
26	Y1	1382	VAL	N-CA-C	-27.76	33.27	111.00
25	X1	788	ASP	N-CA-CB	-27.14	64.36	110.50
27	Z2	289	PRO	CA-N-CD	-27.12	74.03	112.00
26	Y1	1429	LYS	CA-C-O	-27.09	74.74	120.80
27	Z1	289	PRO	CA-N-CD	-27.01	74.19	112.00
26	Y1	1211	LEU	N-CA-CB	-26.75	65.02	110.50
26	Y1	1332	LYS	CB-CA-C	26.72	160.88	110.10
27	Z1	611	GLN	CB-CA-C	26.71	154.10	110.29
27	Z2	523	ASN	CB-CA-C	26.59	163.33	110.42
29	b2	56	THR	CB-CA-C	-26.36	67.83	110.79
27	Z2	209	TYR	CA-C-N	-25.83	87.55	119.84
27	Z2	209	TYR	C-N-CA	-25.83	87.55	119.84
26	Y2	1239	PHE	CB-CA-C	25.82	159.17	110.10
27	Z2	611	GLN	CB-CA-C	25.82	147.34	110.16
27	Z1	209	TYR	CA-C-N	-25.72	87.69	119.84
27	Z1	209	TYR	C-N-CA	-25.72	87.69	119.84
27	Z2	7	LEU	N-CA-CB	-25.44	67.25	110.50
27	Z2	210	PRO	CB-CA-C	-25.34	69.74	111.56
27	Z1	16	SER	N-CA-C	-25.34	40.06	111.00
27	Z1	210	PRO	CB-CA-C	-25.30	69.82	111.56
27	Z2	40	ASP	N-CA-CB	-25.28	82.04	110.35
27	Z1	40	ASP	N-CA-CB	-25.26	82.06	110.35
25	X2	726	VAL	CB-CA-C	-25.12	72.62	110.81
27	Z1	123	PRO	N-CA-C	-25.03	49.53	112.10
27	Z1	625	HIS	N-CA-CB	-24.69	68.53	110.50
26	Y2	1456	LEU	N-CA-C	-24.62	42.06	111.00
27	Z2	284	PRO	N-CA-CB	24.59	129.07	103.25
27	Z1	284	PRO	N-CA-CB	24.59	129.06	103.25
26	Y1	1212	ARG	N-CA-C	24.58	141.01	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b2	55	ASN	CA-C-N	-24.57	88.22	123.11
29	b2	55	ASN	C-N-CA	-24.57	88.22	123.11
29	b2	72	GLU	CB-CA-C	-24.35	69.87	109.80
26	Y1	1429	LYS	N-CA-C	-24.05	43.65	111.00
26	Y2	1212	ARG	CB-CA-C	-24.01	62.63	110.42
27	Z1	119	GLU	CA-C-N	-23.97	78.56	121.70
27	Z1	119	GLU	C-N-CA	-23.97	78.56	121.70
26	Y2	1239	PHE	N-CA-C	-23.95	43.95	111.00
27	Z1	94	PRO	N-CA-CB	23.70	128.14	103.25
27	Z2	94	PRO	N-CA-CB	23.70	128.14	103.25
25	X1	788	ASP	CA-C-O	23.60	160.92	120.80
29	b1	7	SER	N-CA-C	-23.58	44.98	111.00
26	Y2	1125	ASP	CB-CA-C	-23.46	63.07	109.76
26	Y2	1371	VAL	CB-CA-C	-23.12	82.81	111.94
26	Y1	1321	MET	N-CA-C	-23.11	46.28	111.00
25	X1	777	ASN	N-CA-C	-23.11	85.28	113.01
27	Z1	641	PHE	N-CA-CB	23.09	148.05	111.56
27	Z2	641	PHE	N-CA-CB	23.04	147.96	111.56
26	Y1	1412	GLU	N-CA-CB	-22.95	71.48	110.50
29	b1	83	PRO	N-CA-CB	22.95	127.35	103.25
27	Z1	24	ARG	N-CA-C	22.80	142.79	108.14
26	Y1	1239	PHE	CB-CA-C	22.79	153.41	110.10
27	Z2	23	PRO	N-CA-CB	22.79	128.07	103.00
27	Z1	680	TRP	N-CA-CB	22.77	144.19	110.26
26	Y2	1333	ASP	N-CA-CB	22.76	148.96	110.49
29	b2	83	PRO	N-CA-CB	22.73	127.11	103.25
27	Z2	123	PRO	N-CA-C	-22.72	55.30	112.10
27	Z1	283	GLY	N-CA-C	22.42	158.07	112.34
26	Y2	1382	VAL	N-CA-C	-22.41	48.26	111.00
27	Z2	283	GLY	N-CA-C	22.38	157.99	112.34
27	Z2	123	PRO	CB-CA-C	22.35	152.57	110.10
26	Y1	1383	ALA	N-CA-C	-22.31	63.28	110.80
27	Z1	94	PRO	CA-N-CD	-22.31	80.77	112.00
27	Z2	94	PRO	CA-N-CD	-22.28	80.81	112.00
26	Y2	1332	LYS	N-CA-C	-22.26	48.68	111.00
26	Y1	1332	LYS	CA-C-O	22.16	158.47	120.80
26	Y2	1333	ASP	CB-CA-C	-22.01	66.61	110.42
27	Z1	522	GLU	CB-CA-C	-21.81	68.66	110.10
27	Z1	625	HIS	CA-C-O	21.80	157.86	120.80
27	Z1	288	ASN	CB-CA-C	21.69	152.90	110.17
27	Z2	288	ASN	CB-CA-C	21.66	152.83	110.17
25	X2	638	ASP	CB-CA-C	-21.62	67.40	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b1	55	ASN	CA-C-N	-21.52	91.65	123.07
29	b1	55	ASN	C-N-CA	-21.52	91.65	123.07
26	Y2	1382	VAL	CA-C-O	21.41	157.19	120.80
26	Y1	1117	TYR	CA-C-O	21.26	156.94	120.80
26	Y2	1430	ASP	N-CA-C	21.08	170.03	111.00
27	Z2	582	GLU	CA-C-N	21.03	152.28	120.31
27	Z2	582	GLU	C-N-CA	21.03	152.28	120.31
27	Z1	282	GLN	CA-C-N	-21.03	88.86	121.87
27	Z1	282	GLN	C-N-CA	-21.03	88.86	121.87
26	Y1	1372	LYS	N-CA-C	-20.96	52.30	111.00
27	Z2	282	GLN	CA-C-N	-20.95	88.97	121.87
27	Z2	282	GLN	C-N-CA	-20.95	88.97	121.87
27	Z1	582	GLU	CA-C-N	20.91	152.10	120.31
27	Z1	582	GLU	C-N-CA	20.91	152.10	120.31
27	Z1	289	PRO	N-CA-CB	20.91	122.00	103.19
26	Y2	1371	VAL	CA-C-N	-20.88	81.66	121.54
26	Y2	1371	VAL	C-N-CA	-20.88	81.66	121.54
27	Z1	612	ILE	CB-CA-C	-20.86	69.89	111.60
29	b1	56	THR	CB-CA-C	-20.81	77.23	110.74
25	X2	797	LEU	CB-CA-C	-20.77	76.31	110.79
26	Y1	1332	LYS	N-CA-C	-20.76	52.86	111.00
27	Z2	289	PRO	N-CA-CB	20.76	121.88	103.19
26	Y1	1266	ALA	N-CA-CB	20.73	141.50	110.40
26	Y2	1429	LYS	N-CA-C	-20.72	52.99	111.00
25	X2	727	SER	N-CA-C	-20.68	53.10	111.00
27	Z2	582	GLU	N-CA-C	-20.62	66.88	110.80
27	Z1	582	GLU	N-CA-C	-20.61	66.91	110.80
26	Y1	1239	PHE	N-CA-C	-20.60	53.31	111.00
26	Y1	1429	LYS	N-CA-CB	20.56	145.45	110.50
27	Z1	167	ASN	N-CA-CB	-20.55	85.45	110.53
26	Y1	1117	TYR	CA-C-N	20.52	160.73	121.54
26	Y1	1117	TYR	C-N-CA	20.52	160.73	121.54
27	Z2	167	ASN	N-CA-CB	-20.48	85.55	110.53
29	b2	55	ASN	CB-CA-C	-20.29	70.03	110.42
27	Z2	209	TYR	N-CA-C	20.23	140.27	112.75
27	Z1	123	PRO	CA-C-O	-20.22	58.34	119.00
27	Z1	209	TYR	N-CA-C	20.15	140.16	112.75
29	b2	55	ASN	CA-C-O	20.10	149.25	120.51
26	Y2	1429	LYS	CB-CA-C	20.05	148.21	110.10
27	Z1	642	ASN	CA-C-O	20.04	149.17	120.51
27	Z2	642	ASN	CA-C-O	20.00	149.11	120.51
26	Y2	1412	GLU	CB-CA-C	-19.69	72.69	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b1	56	THR	CA-C-O	19.46	140.83	120.40
26	Y2	1372	LYS	N-CA-CB	19.36	143.21	110.49
27	Z2	124	LYS	N-CA-CB	-19.34	80.90	110.29
27	Z2	612	ILE	N-CA-C	-19.29	56.99	111.00
27	Z2	284	PRO	CA-N-CD	-19.20	85.12	112.00
27	Z2	625	HIS	N-CA-C	-19.19	57.26	111.00
27	Z1	284	PRO	CA-N-CD	-19.09	85.27	112.00
27	Z2	612	ILE	CB-CA-C	-19.09	73.42	111.60
26	Y2	1332	LYS	CA-C-O	19.02	153.14	120.80
27	Z1	209	TYR	N-CA-CB	-18.95	82.06	110.30
27	Z2	209	TYR	N-CA-CB	-18.93	82.09	110.30
26	Y2	1320	LEU	CB-CA-C	-18.93	81.81	110.96
26	Y2	1321	MET	N-CA-C	-18.83	58.28	111.00
26	Y1	1456	LEU	N-CA-C	-18.83	58.29	111.00
27	Z2	208	PHE	CA-C-N	-18.82	95.04	120.26
27	Z2	208	PHE	C-N-CA	-18.82	95.04	120.26
27	Z1	208	PHE	CA-C-N	-18.81	95.05	120.26
27	Z1	208	PHE	C-N-CA	-18.81	95.05	120.26
26	Y1	1118	ALA	N-CA-CB	18.62	141.96	110.49
27	Z2	346	ASN	N-CA-CB	-18.59	87.03	110.45
27	Z1	346	ASN	N-CA-CB	-18.53	87.11	110.45
27	Z1	522	GLU	N-CA-C	-18.40	59.47	111.00
26	Y1	1118	ALA	CB-CA-C	-18.36	73.88	110.42
27	Z1	625	HIS	CB-CA-C	-18.33	75.27	110.10
29	b2	83	PRO	CA-N-CD	-18.33	86.34	112.00
26	Y2	1126	LEU	CB-CA-C	18.27	144.81	110.10
29	b2	56	THR	CA-C-O	18.26	140.00	120.46
26	Y1	1455	ASN	CB-CA-C	-18.21	82.13	110.90
26	Y1	1456	LEU	CA-C-O	-18.18	89.89	120.80
25	X1	788	ASP	CB-CA-C	-18.11	75.69	110.10
26	Y1	1429	LYS	CB-CA-C	18.06	144.41	110.10
29	b1	83	PRO	CA-N-CD	-18.03	86.75	112.00
26	Y2	1411	LEU	CA-C-O	17.93	144.68	120.11
27	Z2	134	PRO	CB-CA-C	-17.93	89.40	112.89
27	Z1	134	PRO	CB-CA-C	-17.89	89.45	112.89
26	Y2	1382	VAL	N-CA-CB	-17.85	81.16	111.50
27	Z1	678	ASN	N-CA-CB	-17.82	80.20	110.50
25	X1	726	VAL	CB-CA-C	-17.73	82.20	111.29
27	Z1	283	GLY	CA-C-O	-17.57	96.39	121.52
25	X2	777	ASN	CB-CA-C	17.57	145.39	110.42
27	Z1	54	TYR	CA-C-N	17.53	147.13	121.72
27	Z1	54	TYR	C-N-CA	17.53	147.13	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	54	TYR	CA-C-N	17.48	147.07	121.72
27	Z2	54	TYR	C-N-CA	17.48	147.07	121.72
27	Z2	283	GLY	CA-C-O	-17.48	96.52	121.52
26	Y1	1456	LEU	N-CA-CB	-17.48	80.79	110.50
27	Z2	111	ILE	N-CA-C	17.38	128.35	110.62
29	b1	75	HIS	N-CA-C	17.32	133.80	113.01
27	Z1	111	ILE	N-CA-C	17.32	128.28	110.62
25	X2	726	VAL	N-CA-C	17.30	133.62	108.53
27	Z1	669	THR	N-CA-C	-17.24	62.74	111.00
29	b2	75	HIS	N-CA-C	17.19	133.98	113.18
27	Z1	348	LEU	N-CA-CB	17.06	135.27	110.37
27	Z2	582	GLU	N-CA-CB	17.03	139.28	110.49
27	Z2	348	LEU	N-CA-CB	17.03	135.23	110.37
25	X2	788	ASP	CA-C-O	-17.02	91.87	120.80
26	Y2	1239	PHE	CA-C-O	-17.02	91.87	120.80
27	Z1	582	GLU	N-CA-CB	17.01	139.24	110.49
29	b1	77	VAL	CB-CA-C	-16.98	83.44	111.29
26	Y1	1239	PHE	CA-C-O	-16.85	92.15	120.80
25	X2	637	LEU	CB-CA-C	16.78	141.97	110.10
27	Z1	642	ASN	CB-CA-C	16.76	143.76	110.42
27	Z2	522	GLU	CA-C-N	-16.75	89.54	121.54
27	Z2	522	GLU	C-N-CA	-16.75	89.54	121.54
27	Z2	642	ASN	CB-CA-C	16.75	143.76	110.42
27	Z1	201	GLU	CB-CA-C	-16.66	82.79	111.45
27	Z1	452	SER	CA-C-O	-16.64	92.52	120.80
27	Z2	201	GLU	CB-CA-C	-16.63	82.85	111.45
29	b2	82	GLY	C-N-CD	-16.61	56.91	125.00
27	Z2	93	VAL	C-N-CD	-16.61	56.92	125.00
27	Z1	93	VAL	C-N-CD	-16.60	56.95	125.00
27	Z2	124	LYS	N-CA-C	16.59	135.03	110.48
27	Z1	75	THR	N-CA-CB	16.58	138.51	110.49
25	X1	637	LEU	CB-CA-C	16.57	141.58	110.10
27	Z1	522	GLU	CA-C-O	16.54	148.92	120.80
27	Z1	124	LYS	N-CA-C	16.52	145.99	110.80
27	Z2	75	THR	N-CA-CB	16.48	138.35	110.49
27	Z2	197	LEU	CA-C-N	-16.43	96.99	122.62
27	Z2	197	LEU	C-N-CA	-16.43	96.99	122.62
27	Z1	197	LEU	CA-C-N	-16.43	96.99	122.62
27	Z1	197	LEU	C-N-CA	-16.43	96.99	122.62
27	Z1	346	ASN	CB-CA-C	-16.34	88.83	111.88
27	Z2	346	ASN	CB-CA-C	-16.32	88.87	111.88
29	b2	77	VAL	CB-CA-C	-16.31	84.54	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	452	SER	CB-CA-C	-16.29	79.15	110.10
29	b2	55	ASN	N-CA-CB	16.19	137.85	110.49
27	Z1	679	GLU	N-CA-C	-16.18	65.70	111.00
27	Z1	123	PRO	N-CD-CG	-16.16	78.96	103.20
26	Y2	1117	TYR	CA-C-N	16.09	152.27	121.54
26	Y2	1117	TYR	C-N-CA	16.09	152.27	121.54
27	Z1	342	TYR	CB-CA-C	-16.05	84.35	111.31
27	Z2	342	TYR	CB-CA-C	-15.99	84.44	111.31
26	Y1	1266	ALA	CA-C-O	-15.98	93.64	120.80
26	Y2	1332	LYS	CB-CA-C	15.94	140.38	110.10
27	Z2	123	PRO	CA-C-O	-15.91	71.27	119.00
27	Z1	680	TRP	CB-CA-C	-15.90	80.06	110.11
27	Z2	120	GLU	N-CA-CB	15.86	137.46	110.50
27	Z1	625	HIS	N-CA-C	-15.80	66.77	111.00
17	Q1	626	ASN	CB-CG-ND2	-15.78	92.73	116.40
27	Z1	612	ILE	N-CA-C	-15.77	66.84	111.00
27	Z1	669	THR	N-CA-CB	15.77	138.31	111.50
29	b1	82	GLY	C-N-CD	-15.77	60.36	125.00
27	Z2	366	LEU	CA-C-O	15.76	131.88	119.59
27	Z1	15	ALA	N-CA-C	15.72	144.28	110.80
26	Y2	1371	VAL	N-CA-C	15.71	128.23	111.58
29	b2	56	THR	N-CA-C	15.71	135.80	107.99
17	Q2	626	ASN	CB-CG-ND2	-15.71	92.84	116.40
27	Z1	366	LEU	CA-C-O	15.70	131.84	119.59
25	X1	743	GLN	CB-CA-C	15.61	139.75	110.10
27	Z2	452	SER	CA-C-O	-15.54	94.38	120.80
25	X2	743	GLN	CB-CA-C	15.54	139.62	110.10
27	Z1	679	GLU	N-CA-CB	-15.53	84.09	110.50
26	Y2	1412	GLU	N-CA-C	-15.48	67.67	111.00
25	X1	778	LYS	N-CA-C	-15.46	67.71	111.00
25	X2	788	ASP	N-CA-CB	15.42	136.72	110.50
27	Z1	123	PRO	N-CA-CB	15.40	119.94	103.00
27	Z2	410	PHE	CB-CA-C	-15.35	85.89	111.68
27	Z1	410	PHE	CB-CA-C	-15.34	85.91	111.68
27	Z2	154	PHE	CA-C-O	15.34	138.30	120.66
27	Z1	154	PHE	CA-C-O	15.33	138.28	120.66
17	Q2	626	ASN	OD1-CG-ND2	15.30	137.91	122.60
27	Z2	278	LEU	CB-CA-C	-15.26	81.61	111.97
27	Z1	278	LEU	CB-CA-C	-15.22	81.69	111.97
27	Z1	24	ARG	CB-CA-C	-15.19	83.60	110.95
17	Q1	626	ASN	OD1-CG-ND2	15.13	137.73	122.60
26	Y1	1321	MET	CA-C-O	-15.12	95.09	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1125	ASP	CB-CA-C	-15.10	84.12	109.48
26	Y1	1412	GLU	N-CA-C	-15.07	68.81	111.00
27	Z2	24	ARG	N-CA-C	15.05	142.86	110.80
27	Z1	24	ARG	N-CA-CB	-14.97	86.42	111.57
27	Z2	16	SER	N-CA-CB	14.97	135.95	110.50
25	X2	700	ILE	CB-CA-C	14.91	130.73	111.94
29	b2	55	ASN	N-CA-C	14.90	142.53	110.80
26	Y1	1126	LEU	CA-C-O	-14.86	95.54	120.80
25	X1	700	ILE	CB-CA-C	14.85	130.65	111.94
27	Z2	678	ASN	CB-CA-C	-14.81	81.95	110.10
25	X2	743	GLN	N-CA-CB	-14.79	85.35	110.50
27	Z1	56	SER	N-CA-C	14.78	133.45	109.95
27	Z2	15	ALA	N-CA-C	14.75	142.22	110.80
27	Z1	625	HIS	CA-C-N	14.70	136.17	120.00
27	Z1	625	HIS	C-N-CA	14.70	136.17	120.00
26	Y1	1211	LEU	CB-CA-C	14.64	137.91	110.10
27	Z2	56	SER	N-CA-C	14.59	133.15	109.95
27	Z1	216	LEU	CA-C-O	14.55	136.29	120.43
27	Z1	119	GLU	CA-C-O	-14.54	105.96	119.91
26	Y2	1383	ALA	CB-CA-C	14.50	134.44	111.39
25	X1	705	ASP	CB-CA-C	14.49	134.76	110.86
27	Z2	216	LEU	CA-C-O	14.48	136.21	120.43
29	b1	8	THR	N-CA-C	14.42	131.02	110.40
25	X1	743	GLN	N-CA-CB	-14.41	85.99	110.50
27	Z1	611	GLN	N-CA-C	-14.41	87.20	109.25
26	Y2	1270	LEU	CB-CA-C	14.35	134.54	110.86
27	Z2	74	SER	N-CA-C	14.34	141.34	110.80
27	Z1	74	SER	N-CA-C	14.33	141.32	110.80
27	Z1	277	ARG	CB-CA-C	-14.32	93.02	111.50
27	Z2	277	ARG	CB-CA-C	-14.30	93.05	111.50
27	Z1	643	SER	CB-CA-C	14.29	138.85	110.42
26	Y1	1270	LEU	CB-CA-C	14.24	134.36	110.86
27	Z2	643	SER	CB-CA-C	14.24	138.76	110.42
25	X1	774	ASN	CB-CA-C	14.23	133.22	110.88
25	X2	774	ASN	CB-CA-C	14.22	133.20	110.88
27	Z1	137	TYR	N-CA-CB	-14.18	88.65	110.06
27	Z2	137	TYR	N-CA-CB	-14.15	88.70	110.06
26	Y2	1371	VAL	CA-C-O	14.13	136.14	120.46
26	Y1	1455	ASN	CA-C-O	14.08	135.20	120.70
27	Z2	99	ASN	N-CA-C	-14.07	85.74	109.24
27	Z1	99	ASN	N-CA-C	-14.07	85.74	109.24
27	Z1	451	SER	CB-CA-C	14.05	138.38	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y2	1382	VAL	CB-CA-C	-14.00	84.80	111.40
29	b1	45	VAL	CB-CA-C	13.93	129.80	111.97
27	Z1	88	ILE	CA-C-O	-13.89	105.20	120.48
26	Y2	1320	LEU	CA-C-O	13.87	135.56	121.00
25	X2	726	VAL	CA-C-O	13.79	136.44	120.72
27	Z2	88	ILE	CA-C-O	-13.78	105.32	120.48
27	Z2	452	SER	N-CA-CB	-13.76	87.11	110.50
27	Z2	372	LYS	CA-C-N	-13.73	101.03	122.59
27	Z2	372	LYS	C-N-CA	-13.73	101.03	122.59
27	Z1	372	LYS	CA-C-N	-13.69	101.09	122.59
27	Z1	372	LYS	C-N-CA	-13.69	101.09	122.59
26	Y1	1126	LEU	CB-CA-C	-13.60	84.25	110.10
26	Y2	1266	ALA	N-CA-C	-13.58	72.98	111.00
27	Z1	282	GLN	CA-C-O	13.52	137.02	121.47
27	Z2	640	GLN	CB-CA-C	13.51	137.31	110.42
27	Z1	640	GLN	CB-CA-C	13.49	137.27	110.42
27	Z1	138	ARG	N-CA-CB	13.47	135.11	113.15
27	Z2	138	ARG	N-CA-CB	13.47	135.10	113.15
26	Y2	1230	GLU	CB-CA-C	13.40	133.30	110.79
26	Y1	1230	GLU	CB-CA-C	13.39	133.29	110.79
27	Z1	149	ASP	CB-CA-C	13.39	132.69	111.66
27	Z2	282	GLN	CA-C-O	13.39	136.87	121.47
26	Y1	1212	ARG	N-CA-CB	-13.37	89.50	109.82
27	Z2	643	SER	N-CA-C	-13.37	82.31	110.80
27	Z2	149	ASP	CB-CA-C	13.37	132.65	111.66
27	Z2	679	GLU	N-CA-C	-13.37	94.12	112.30
27	Z1	275	GLU	CB-CA-C	13.35	131.98	110.90
27	Z1	643	SER	N-CA-C	-13.34	82.38	110.80
27	Z2	275	GLU	CB-CA-C	13.34	131.98	110.90
29	b1	34	LYS	CB-CA-C	-13.29	89.22	109.29
27	Z2	98	SER	N-CA-CB	13.25	132.88	110.49
27	Z1	125	SER	CB-CA-C	-13.24	88.71	109.89
26	Y2	1411	LEU	CA-C-N	-13.23	97.89	121.70
26	Y2	1411	LEU	C-N-CA	-13.23	97.89	121.70
26	Y1	1429	LYS	O-C-N	-13.22	101.85	123.00
27	Z2	125	SER	CB-CA-C	-13.19	88.78	109.89
26	Y1	1239	PHE	N-CA-CB	13.19	132.92	110.50
26	Y2	1429	LYS	O-C-N	-13.19	101.90	123.00
27	Z2	94	PRO	CB-CA-C	-13.17	89.83	111.56
26	Y2	1266	ALA	O-C-N	-13.17	101.93	123.00
27	Z1	94	PRO	CB-CA-C	-13.17	89.83	111.56
27	Z1	98	SER	N-CA-CB	13.16	132.73	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1211	LEU	O-C-N	-13.14	101.97	123.00
27	Z2	7	LEU	CB-CA-C	-13.14	85.14	110.10
27	Z2	439	LEU	CA-C-N	-13.13	103.25	122.94
27	Z2	439	LEU	C-N-CA	-13.13	103.25	122.94
27	Z1	452	SER	N-CA-CB	-13.12	88.20	110.50
26	Y1	1429	LYS	CA-C-N	13.10	138.33	120.38
26	Y1	1429	LYS	C-N-CA	13.10	138.33	120.38
27	Z1	439	LEU	CA-C-N	-13.08	103.31	122.94
27	Z1	439	LEU	C-N-CA	-13.08	103.31	122.94
27	Z2	7	LEU	CA-C-O	12.99	142.88	120.80
27	Z1	207	ALA	N-CA-C	12.95	130.50	110.42
25	X1	788	ASP	CA-C-N	12.93	142.46	122.42
25	X1	788	ASP	C-N-CA	12.93	142.46	122.42
27	Z2	207	ALA	N-CA-C	12.88	130.38	110.42
27	Z2	679	GLU	N-CA-CB	-12.83	90.20	111.49
27	Z2	240	THR	CB-CA-C	-12.78	84.98	110.42
27	Z1	240	THR	CB-CA-C	-12.77	85.01	110.42
27	Z2	264	ASN	CA-C-O	-12.74	107.22	120.98
29	b1	11	VAL	N-CA-CB	12.70	128.53	111.25
27	Z2	372	LYS	CA-C-O	-12.68	106.22	120.54
27	Z2	311	GLN	N-CA-CB	12.67	128.61	114.17
27	Z2	157	LEU	CB-CA-C	-12.65	89.34	110.72
27	Z1	311	GLN	N-CA-CB	12.64	128.58	114.17
27	Z1	157	LEU	CB-CA-C	-12.63	89.37	110.72
27	Z1	264	ASN	CA-C-O	-12.63	107.34	120.98
27	Z1	380	ILE	N-CA-CB	-12.62	95.93	112.34
27	Z2	380	ILE	N-CA-CB	-12.62	95.93	112.34
26	Y2	1455	ASN	CA-C-N	12.62	144.41	121.70
26	Y2	1455	ASN	C-N-CA	12.62	144.41	121.70
27	Z1	678	ASN	CA-C-N	12.60	144.39	121.70
27	Z1	678	ASN	C-N-CA	12.60	144.39	121.70
27	Z1	372	LYS	CA-C-O	-12.60	106.30	120.54
27	Z2	101	GLU	N-CA-CB	-12.60	89.20	110.49
27	Z1	8	SER	N-CA-CB	12.59	131.76	110.49
27	Z1	101	GLU	N-CA-CB	-12.57	89.25	110.49
29	b2	56	THR	N-CA-CB	-12.53	89.67	110.47
29	b2	7	SER	N-CA-C	-12.53	75.92	111.00
29	b2	9	PRO	CA-C-N	-12.53	105.53	122.94
29	b2	9	PRO	C-N-CA	-12.53	105.53	122.94
26	Y2	1456	LEU	N-CA-CB	12.46	131.68	110.50
27	Z1	23	PRO	CB-CA-C	12.45	133.75	110.10
27	Z1	582	GLU	CB-CA-C	12.45	135.19	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	R2	584	ILE	CB-CA-C	-12.43	96.06	111.97
18	R1	584	ILE	CB-CA-C	-12.43	96.06	111.97
26	Y2	1119	GLU	CA-C-O	-12.43	106.51	120.43
27	Z2	582	GLU	CB-CA-C	12.42	135.13	110.42
27	Z2	39	GLN	CA-C-O	12.42	126.85	119.77
27	Z1	254	GLN	CB-CA-C	12.41	130.36	110.88
27	Z1	119	GLU	CB-CA-C	-12.37	98.94	114.40
27	Z2	254	GLN	CB-CA-C	12.35	130.27	110.88
27	Z1	351	ILE	N-CA-C	12.34	123.20	110.62
26	Y2	1211	LEU	CA-C-N	12.34	145.10	121.54
26	Y2	1211	LEU	C-N-CA	12.34	145.10	121.54
27	Z2	351	ILE	N-CA-C	12.33	123.19	110.62
27	Z1	37	PHE	CB-CA-C	-12.28	92.32	110.24
27	Z2	37	PHE	CB-CA-C	-12.27	92.33	110.24
26	Y1	1120	SER	CB-CA-C	-12.26	84.50	109.38
27	Z1	39	GLN	CA-C-O	12.25	126.75	119.77
27	Z2	428	TYR	CB-CA-C	-12.22	90.20	111.22
27	Z2	16	SER	CA-C-O	-12.22	100.03	120.80
27	Z1	428	TYR	CB-CA-C	-12.20	90.24	111.22
25	X2	778	LYS	N-CA-CB	12.18	131.21	110.50
29	b2	80	TYR	N-CA-C	12.18	133.80	107.49
29	b2	57	TRP	N-CA-CB	12.18	129.57	110.21
27	Z1	345	ASN	N-CA-CB	-12.15	89.95	110.49
27	Z2	345	ASN	N-CA-CB	-12.13	89.98	110.49
27	Z1	188	SER	CB-CA-C	12.13	131.33	109.62
27	Z2	188	SER	CB-CA-C	12.11	131.30	109.62
27	Z1	100	VAL	CB-CA-C	12.11	122.78	110.91
25	X1	778	LYS	CB-CA-C	-12.05	87.19	110.10
29	b1	10	ILE	CA-C-N	12.05	138.13	123.19
29	b1	10	ILE	C-N-CA	12.05	138.13	123.19
26	Y1	1238	PHE	N-CA-C	-12.04	85.15	110.80
27	Z1	581	PHE	N-CA-CB	12.01	130.99	110.81
27	Z2	100	VAL	CB-CA-C	11.99	122.66	110.91
27	Z1	23	PRO	CA-C-N	11.96	144.33	122.09
27	Z1	23	PRO	C-N-CA	11.96	144.33	122.09
27	Z2	8	SER	N-CA-C	-11.95	89.39	113.29
27	Z1	452	SER	CB-CA-C	-11.94	87.42	110.10
27	Z2	581	PHE	N-CA-CB	11.94	130.87	110.81
27	Z2	326	LEU	CB-CA-C	11.93	129.69	109.53
27	Z2	39	GLN	CA-C-N	-11.92	105.49	122.06
27	Z2	39	GLN	C-N-CA	-11.92	105.49	122.06
26	Y2	1211	LEU	CA-C-O	11.92	141.06	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	326	LEU	CB-CA-C	11.90	129.64	109.53
27	Z1	39	GLN	CA-C-N	-11.89	105.53	122.06
27	Z1	39	GLN	C-N-CA	-11.89	105.53	122.06
29	b2	34	LYS	N-CA-C	11.89	127.09	112.59
26	Y2	1405	GLN	CB-CA-C	11.87	129.81	110.81
27	Z1	57	LEU	CB-CA-C	-11.85	94.76	111.95
26	Y1	1405	GLN	CB-CA-C	11.84	129.75	110.81
27	Z2	57	LEU	CB-CA-C	-11.83	94.80	111.95
27	Z2	111	ILE	N-CA-CB	-11.83	94.45	110.54
26	Y2	1383	ALA	N-CA-C	11.82	129.37	111.04
26	Y1	1119	GLU	CA-C-N	-11.81	102.05	122.37
26	Y1	1119	GLU	C-N-CA	-11.81	102.05	122.37
27	Z2	678	ASN	N-CA-C	-11.81	77.94	111.00
27	Z2	669	THR	N-CA-C	-11.80	77.94	111.00
27	Z2	451	SER	N-CA-C	11.80	135.93	110.80
29	b1	56	THR	CA-C-N	11.78	140.58	123.14
29	b1	56	THR	C-N-CA	11.78	140.58	123.14
26	Y1	1382	VAL	CB-CA-C	-11.77	89.03	111.40
29	b2	10	ILE	N-CA-C	-11.77	90.93	108.46
27	Z1	111	ILE	N-CA-CB	-11.75	94.56	110.54
27	Z1	367	PRO	N-CA-CB	11.75	116.46	103.30
27	Z1	669	THR	CA-C-O	-11.75	100.83	120.80
27	Z1	380	ILE	CB-CA-C	-11.72	97.05	110.41
26	Y1	1289	GLN	CB-CA-C	11.71	130.23	110.79
26	Y2	1120	SER	CB-CA-C	-11.70	86.18	109.35
27	Z2	34	ARG	CA-C-N	-11.69	106.69	122.94
27	Z2	34	ARG	C-N-CA	-11.69	106.69	122.94
27	Z1	34	ARG	CA-C-N	-11.68	106.70	122.94
27	Z1	34	ARG	C-N-CA	-11.68	106.70	122.94
27	Z2	367	PRO	N-CA-CB	11.68	116.38	103.30
27	Z2	380	ILE	CB-CA-C	-11.68	97.10	110.41
26	Y2	1289	GLN	CB-CA-C	11.68	130.17	110.79
29	b2	91	THR	N-CA-CB	11.67	130.22	110.49
27	Z2	162	LYS	N-CA-C	-11.66	95.14	109.72
27	Z1	162	LYS	N-CA-C	-11.64	95.17	109.72
26	Y1	1320	LEU	CA-C-O	-11.63	108.29	122.36
25	X1	778	LYS	CA-C-O	-11.62	101.05	120.80
26	Y2	1119	GLU	CA-C-N	-11.60	103.93	122.73
26	Y2	1119	GLU	C-N-CA	-11.60	103.93	122.73
26	Y2	1238	PHE	N-CA-C	-11.59	86.11	110.80
29	b1	80	TYR	N-CA-C	11.58	132.49	107.49
27	Z2	215	VAL	N-CA-C	-11.55	90.57	107.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q1	88	GLY	CA-C-N	11.55	140.31	120.68
17	Q1	88	GLY	C-N-CA	11.55	140.31	120.68
27	Z1	215	VAL	N-CA-C	-11.53	90.59	107.78
17	Q2	88	GLY	CA-C-N	11.51	140.24	120.68
17	Q2	88	GLY	C-N-CA	11.51	140.24	120.68
27	Z1	297	TYR	N-CA-C	11.49	128.17	110.36
17	Q2	89	TYR	N-CA-C	11.46	126.67	112.23
27	Z2	297	TYR	N-CA-C	11.43	128.07	110.36
17	Q1	89	TYR	N-CA-C	11.40	126.59	112.23
29	b1	10	ILE	CA-C-O	11.38	131.52	120.25
29	b1	53	TYR	N-CA-C	-11.37	88.12	108.02
27	Z2	252	GLN	CB-CA-C	11.36	128.71	110.88
27	Z1	279	ALA	N-CA-CB	-11.35	93.04	110.29
27	Z2	423	ILE	CB-CA-C	-11.35	90.71	111.36
25	X1	777	ASN	CB-CA-C	11.35	133.31	110.17
25	X2	667	GLN	CB-CA-C	11.33	129.60	110.79
26	Y2	1239	PHE	N-CA-CB	11.33	129.76	110.50
27	Z1	252	GLN	CB-CA-C	11.33	128.66	110.88
27	Z1	423	ILE	CB-CA-C	-11.33	90.74	111.36
25	X2	742	GLN	CA-C-N	11.31	142.05	121.70
25	X2	742	GLN	C-N-CA	11.31	142.05	121.70
29	b2	59	VAL	CB-CA-C	-11.30	90.76	110.65
27	Z2	279	ALA	N-CA-CB	-11.30	93.12	110.29
25	X1	667	GLN	CB-CA-C	11.29	129.54	110.79
27	Z1	109	PHE	CB-CA-C	-11.28	89.71	110.01
27	Z2	109	PHE	CB-CA-C	-11.28	89.71	110.01
17	Q1	385	THR	CA-C-N	11.17	142.87	121.54
17	Q1	385	THR	C-N-CA	11.17	142.87	121.54
17	Q2	385	THR	CA-C-N	11.14	142.82	121.54
17	Q2	385	THR	C-N-CA	11.14	142.82	121.54
27	Z1	451	SER	N-CA-CB	-11.13	91.68	110.49
27	Z2	15	ALA	CA-C-O	-11.11	104.62	120.51
25	X2	645	THR	CB-CA-C	11.11	128.32	110.88
25	X1	727	SER	N-CA-C	-11.10	79.93	111.00
25	X1	645	THR	CB-CA-C	11.07	128.26	110.88
29	b2	77	VAL	N-CA-CB	11.06	129.49	111.23
27	Z1	352	GLU	CB-CA-C	-11.03	88.47	110.42
27	Z1	669	THR	CB-CA-C	-11.02	84.86	109.10
27	Z2	314	ILE	CA-C-O	11.01	131.84	120.39
27	Z1	241	THR	N-CA-C	-11.01	89.92	108.75
29	b1	54	GLY	CA-C-N	-11.01	100.52	121.54
29	b1	54	GLY	C-N-CA	-11.01	100.52	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	522	GLU	CA-C-O	11.01	139.51	120.80
27	Z1	314	ILE	CA-C-O	11.00	131.83	120.39
27	Z2	241	THR	N-CA-C	-10.98	89.98	108.75
27	Z2	352	GLU	CB-CA-C	-10.96	88.61	110.42
19	R2	643	PHE	CA-CB-CG	-10.95	102.85	113.80
27	Z2	343	VAL	CB-CA-C	-10.89	99.66	112.19
27	Z1	343	VAL	CB-CA-C	-10.87	99.69	112.19
27	Z1	591	GLN	CB-CA-C	10.87	128.83	110.79
18	R1	643	PHE	CA-CB-CG	-10.85	102.95	113.80
27	Z1	355	LYS	CB-CA-C	-10.85	94.91	111.73
17	Q1	585	LEU	N-CA-C	-10.85	99.23	111.82
27	Z2	591	GLN	CB-CA-C	10.85	128.80	110.79
27	Z2	668	GLU	N-CA-C	10.83	127.15	107.99
27	Z2	355	LYS	CB-CA-C	-10.82	94.95	111.73
26	Y2	1332	LYS	N-CA-CB	-10.82	92.10	110.50
27	Z1	53	LEU	CA-C-O	10.79	135.94	120.51
27	Z1	279	ALA	CA-C-O	10.79	133.88	121.47
17	Q2	585	LEU	N-CA-C	-10.79	99.31	111.82
27	Z2	23	PRO	CA-C-O	10.79	151.36	119.00
27	Z1	211	PHE	N-CA-CB	10.77	128.70	110.49
27	Z1	63	LEU	CA-C-O	-10.73	109.08	120.89
27	Z2	53	LEU	CA-C-O	10.73	135.86	120.51
27	Z2	378	ASP	CB-CA-C	10.73	131.77	110.42
27	Z1	208	PHE	CB-CA-C	10.73	127.78	110.19
27	Z2	208	PHE	CA-C-O	-10.71	108.54	120.32
27	Z1	378	ASP	CB-CA-C	10.70	131.72	110.42
27	Z1	208	PHE	CA-C-O	-10.69	108.56	120.32
27	Z2	208	PHE	CB-CA-C	10.69	127.71	110.19
27	Z2	211	PHE	N-CA-CB	10.68	128.54	110.49
27	Z2	137	TYR	CB-CA-C	10.67	127.57	109.53
27	Z2	31	ASN	CB-CA-C	-10.67	98.16	111.82
27	Z1	31	ASN	CB-CA-C	-10.66	98.18	111.82
26	Y2	1383	ALA	N-CA-CB	-10.65	94.97	110.10
27	Z2	380	ILE	N-CA-C	10.65	125.60	107.18
26	Y2	1318	LEU	CB-CA-C	10.64	128.94	110.85
27	Z1	595	GLN	CB-CA-C	10.63	128.44	110.79
27	Z2	595	GLN	CB-CA-C	10.62	128.43	110.79
27	Z1	137	TYR	CB-CA-C	10.61	127.47	109.53
27	Z2	279	ALA	CA-C-O	10.61	133.67	121.47
29	b2	91	THR	CA-C-N	10.61	140.79	121.70
29	b2	91	THR	C-N-CA	10.61	140.79	121.70
26	Y1	1318	LEU	CB-CA-C	10.59	128.85	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	329	LYS	N-CA-C	-10.59	92.40	109.76
27	Z1	329	LYS	N-CA-C	-10.58	92.42	109.76
27	Z2	182	ILE	CB-CA-C	-10.55	93.98	111.29
29	b1	59	VAL	CB-CA-C	-10.55	92.08	110.65
27	Z1	289	PRO	N-CA-C	-10.53	94.09	111.26
27	Z2	420	ILE	CA-C-O	-10.53	109.63	120.90
27	Z1	380	ILE	N-CA-C	10.53	125.40	107.18
27	Z1	49	LEU	CB-CA-C	10.53	128.45	109.29
27	Z2	289	PRO	N-CA-C	-10.52	94.11	111.26
26	Y1	1117	TYR	CB-CA-C	10.51	130.07	110.10
27	Z2	581	PHE	CA-C-N	-10.50	101.48	121.54
27	Z2	581	PHE	C-N-CA	-10.50	101.48	121.54
27	Z1	581	PHE	CA-C-N	-10.50	101.49	121.54
27	Z1	581	PHE	C-N-CA	-10.50	101.49	121.54
27	Z1	182	ILE	CB-CA-C	-10.49	94.08	111.29
27	Z2	49	LEU	CB-CA-C	10.49	128.38	109.29
27	Z2	669	THR	CA-C-O	-10.49	102.97	120.80
26	Y2	1118	ALA	N-CA-C	10.46	133.08	110.80
27	Z1	420	ILE	CA-C-O	-10.45	109.72	120.90
27	Z2	23	PRO	CA-C-N	10.45	141.50	121.54
27	Z2	23	PRO	C-N-CA	10.45	141.50	121.54
25	X1	789	GLU	N-CA-CB	10.44	128.96	110.27
29	b1	86	PHE	CA-C-O	-10.43	109.69	120.54
27	Z1	288	ASN	CA-C-O	10.42	134.44	120.16
29	b2	57	TRP	CA-C-O	-10.41	109.44	120.58
27	Z2	288	ASN	CA-C-O	10.40	134.41	120.16
27	Z2	333	MET	CA-C-O	10.40	132.29	120.54
27	Z2	181	ASP	N-CA-C	10.38	125.60	111.90
27	Z2	333	MET	CA-C-N	10.36	136.80	122.19
27	Z2	333	MET	C-N-CA	10.36	136.80	122.19
27	Z2	206	PHE	N-CA-CB	10.35	127.98	110.49
27	Z1	206	PHE	N-CA-CB	10.35	127.97	110.49
27	Z2	88	ILE	CA-C-N	-10.34	105.98	122.73
27	Z2	88	ILE	C-N-CA	-10.34	105.98	122.73
27	Z1	88	ILE	CA-C-N	-10.33	106.00	122.73
27	Z1	88	ILE	C-N-CA	-10.33	106.00	122.73
29	b1	55	ASN	N-CA-C	10.31	132.76	110.80
29	b2	58	HIS	N-CA-CB	-10.28	95.01	110.85
27	Z1	7	LEU	CA-C-O	10.28	138.27	120.80
27	Z1	333	MET	CA-C-N	10.27	136.67	122.19
27	Z1	333	MET	C-N-CA	10.27	136.67	122.19
27	Z1	678	ASN	CB-CA-C	-10.27	90.59	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	119	GLU	N-CA-C	-10.26	98.07	112.13
27	Z1	581	PHE	CA-C-O	10.25	132.89	120.28
27	Z2	42	ILE	CA-C-O	10.24	132.03	120.76
27	Z2	347	SER	CA-C-O	10.24	133.95	121.56
27	Z1	612	ILE	N-CA-CB	10.23	128.89	111.50
27	Z2	411	GLU	N-CA-C	-10.23	92.16	109.24
27	Z1	333	MET	CA-C-O	10.22	132.09	120.54
27	Z1	181	ASP	N-CA-C	10.22	125.39	111.90
27	Z2	581	PHE	CA-C-O	10.21	132.84	120.28
27	Z1	155	ASP	N-CA-CB	10.18	125.56	110.49
27	Z1	411	GLU	N-CA-C	-10.17	92.25	109.24
27	Z1	42	ILE	CA-C-O	10.17	131.95	120.76
29	b1	77	VAL	N-CA-CB	10.17	128.01	111.23
27	Z2	155	ASP	N-CA-CB	10.17	125.54	110.49
23	V1	454	LEU	N-CA-C	10.17	124.35	111.24
27	Z1	141	CYS	CB-CA-C	-10.16	92.14	109.72
29	b1	58	HIS	N-CA-CB	-10.15	95.21	110.85
27	Z2	283	GLY	CA-C-N	10.15	132.53	119.84
27	Z2	283	GLY	C-N-CA	10.15	132.53	119.84
23	V2	454	LEU	N-CA-C	10.15	124.33	111.24
27	Z1	283	GLY	CA-C-N	10.15	132.53	119.84
27	Z1	283	GLY	C-N-CA	10.15	132.53	119.84
29	b2	80	TYR	CB-CA-C	-10.15	94.66	111.51
27	Z1	150	THR	N-CA-CB	10.11	126.44	110.57
27	Z1	347	SER	CA-C-O	10.11	133.79	121.56
25	X2	789	GLU	N-CA-C	-10.10	101.73	114.56
19	R2	677	LEU	N-CA-C	-10.10	100.27	111.28
27	Z2	141	CYS	CB-CA-C	-10.08	92.29	109.72
27	Z2	150	THR	N-CA-CB	10.07	126.39	110.57
27	Z2	625	HIS	CA-C-N	10.07	139.83	121.70
27	Z2	625	HIS	C-N-CA	10.07	139.83	121.70
27	Z2	271	ASP	CB-CA-C	-10.07	93.29	109.80
18	R1	677	LEU	N-CA-C	-10.05	100.33	111.28
26	Y1	1238	PHE	CB-CA-C	10.05	130.41	110.42
29	b1	36	GLN	N-CA-C	-10.05	89.39	110.80
27	Z1	271	ASP	CB-CA-C	-10.04	93.33	109.80
25	X2	727	SER	CB-CA-C	10.03	129.16	110.10
24	W1	738	ARG	N-CA-C	-10.02	100.60	113.12
24	W2	738	ARG	N-CA-C	-9.98	100.64	113.12
25	X1	742	GLN	CA-C-N	9.98	139.66	121.70
25	X1	742	GLN	C-N-CA	9.98	139.66	121.70
24	W2	739	PHE	N-CA-C	-9.96	100.50	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1119	GLU	CA-C-O	-9.95	109.58	120.43
27	Z2	713	GLN	OE1-CD-NE2	-9.95	112.65	122.60
27	Z1	537	GLN	CB-CA-C	9.94	127.29	110.79
25	X1	761	ASN	CB-CA-C	9.93	127.28	110.79
27	Z1	93	VAL	N-CA-C	9.92	130.31	108.88
27	Z1	713	GLN	OE1-CD-NE2	-9.91	112.69	122.60
24	W1	739	PHE	N-CA-C	-9.91	100.56	111.36
27	Z1	65	LEU	CA-C-O	-9.91	109.00	120.49
27	Z1	64	VAL	N-CA-C	-9.89	93.72	108.46
27	Z2	93	VAL	N-CA-C	9.89	130.24	108.88
27	Z2	296	ASP	CB-CA-C	9.89	128.81	110.11
27	Z2	64	VAL	N-CA-C	-9.88	93.73	108.46
29	b2	9	PRO	CA-C-O	-9.88	110.19	121.36
29	b1	57	TRP	CA-C-O	-9.88	109.44	120.70
25	X1	742	GLN	N-CA-CB	9.87	127.28	110.50
26	Y1	1212	ARG	CB-CA-C	9.86	126.60	110.92
27	Z2	537	GLN	CB-CA-C	9.86	127.16	110.79
25	X2	761	ASN	CB-CA-C	9.86	127.16	110.79
27	Z1	218	LEU	CA-C-O	9.85	132.43	120.60
27	Z1	296	ASP	CB-CA-C	9.85	128.73	110.11
27	Z2	126	SER	N-CA-C	9.85	123.53	110.53
27	Z1	169	PRO	CB-CA-C	-9.82	98.15	111.21
27	Z1	522	GLU	N-CA-CB	9.81	127.18	110.50
27	Z2	186	GLU	CA-C-O	9.81	134.54	120.51
27	Z2	218	LEU	CA-C-O	9.81	132.38	120.60
27	Z2	444	THR	N-CA-C	9.81	123.27	108.46
26	Y1	1211	LEU	CA-C-N	9.80	134.42	120.79
26	Y1	1211	LEU	C-N-CA	9.80	134.42	120.79
27	Z1	543	GLN	CB-CA-C	9.80	127.05	110.79
29	b1	67	SER	N-CA-C	9.80	125.37	109.40
29	b1	8	THR	N-CA-CB	-9.79	88.33	110.56
27	Z1	126	SER	N-CA-C	9.79	123.45	110.53
27	Z2	543	GLN	CB-CA-C	9.79	127.03	110.79
27	Z2	65	LEU	CA-C-O	-9.77	109.16	120.49
27	Z1	444	THR	N-CA-C	9.76	123.20	108.46
27	Z2	282	GLN	CB-CA-C	9.74	127.39	109.46
27	Z1	186	GLU	CA-C-O	9.74	134.43	120.51
27	Z2	350	LEU	N-CA-C	9.73	125.12	107.99
27	Z2	668	GLU	CA-C-N	-9.73	104.18	121.70
27	Z2	668	GLU	C-N-CA	-9.73	104.18	121.70
27	Z2	169	PRO	CB-CA-C	-9.71	98.29	111.21
25	X2	809	ASP	CB-CA-C	9.70	126.11	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	282	GLN	CB-CA-C	9.70	127.31	109.46
27	Z2	53	LEU	CA-C-N	9.67	135.63	122.77
27	Z2	53	LEU	C-N-CA	9.67	135.63	122.77
26	Y1	1332	LYS	CA-C-N	9.66	140.00	121.54
26	Y1	1332	LYS	C-N-CA	9.66	140.00	121.54
27	Z1	350	LEU	N-CA-C	9.66	125.00	107.99
27	Z2	63	LEU	CA-C-O	-9.65	109.04	120.43
27	Z2	265	SER	N-CA-CB	-9.65	95.36	110.22
17	Q1	299	ALA	N-CA-C	-9.63	90.28	110.80
27	Z2	439	LEU	CA-C-O	-9.63	110.44	120.84
17	Q2	299	ALA	N-CA-C	-9.62	90.31	110.80
27	Z1	265	SER	N-CA-CB	-9.62	95.40	110.22
27	Z1	302	ILE	CB-CA-C	-9.62	97.03	110.12
27	Z2	178	ARG	N-CA-C	-9.62	93.51	108.14
27	Z1	524	GLN	CB-CA-C	9.62	126.76	110.79
27	Z1	101	GLU	CB-CA-C	9.62	129.56	110.42
27	Z2	101	GLU	CB-CA-C	9.62	129.55	110.42
27	Z2	524	GLN	CB-CA-C	9.61	126.74	110.79
27	Z1	178	ARG	N-CA-C	-9.60	93.55	108.14
27	Z2	142	ILE	CA-C-N	9.60	134.48	122.48
27	Z2	142	ILE	C-N-CA	9.60	134.48	122.48
29	b2	86	PHE	N-CA-CB	9.60	126.81	110.68
26	Y2	1266	ALA	CA-C-N	9.59	138.96	121.70
26	Y2	1266	ALA	C-N-CA	9.59	138.96	121.70
27	Z1	439	LEU	CA-C-O	-9.58	110.49	120.84
25	X1	809	ASP	CB-CA-C	9.57	125.91	110.88
27	Z2	302	ILE	CB-CA-C	-9.56	97.12	110.12
27	Z1	401	ASP	CB-CA-C	-9.54	95.28	111.31
27	Z1	142	ILE	CA-C-N	9.51	134.37	122.48
27	Z1	142	ILE	C-N-CA	9.51	134.37	122.48
27	Z2	401	ASP	CB-CA-C	-9.50	95.35	111.31
17	Q1	600	PHE	CA-CB-CG	-9.49	104.31	113.80
27	Z1	367	PRO	CA-N-CD	-9.49	98.72	112.00
27	Z1	53	LEU	CA-C-N	9.48	135.38	122.77
27	Z1	53	LEU	C-N-CA	9.48	135.38	122.77
26	Y1	1382	VAL	N-CA-CB	-9.48	95.39	111.50
27	Z2	367	PRO	CA-N-CD	-9.47	98.74	112.00
27	Z2	161	GLU	CA-C-O	9.44	130.56	120.36
17	Q2	600	PHE	CA-CB-CG	-9.44	104.36	113.80
29	b1	7	SER	CA-C-N	-9.43	89.42	122.15
29	b1	7	SER	C-N-CA	-9.43	89.42	122.15
26	Y2	1455	ASN	N-CA-C	9.42	130.86	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1434	PHE	N-CA-C	9.41	122.72	111.33
27	Z1	199	THR	CB-CA-C	-9.40	98.08	111.14
27	Z2	199	THR	CB-CA-C	-9.39	98.08	111.14
26	Y2	1434	PHE	N-CA-C	9.39	122.69	111.33
27	Z1	426	LEU	N-CA-C	9.38	124.70	109.59
27	Z2	63	LEU	CB-CA-C	9.37	126.72	109.86
27	Z1	440	MET	N-CA-CB	-9.36	94.54	110.83
27	Z2	73	SER	CB-CA-C	-9.35	93.77	109.48
27	Z1	288	ASN	CA-C-N	-9.35	109.93	119.93
27	Z1	288	ASN	C-N-CA	-9.35	109.93	119.93
25	X2	712	ASP	CB-CA-C	9.34	127.77	110.11
25	X1	712	ASP	CB-CA-C	9.34	127.79	110.70
18	R1	24	ILE	N-CA-C	9.33	125.85	113.07
27	Z1	86	ASN	N-CA-C	9.33	125.80	113.30
27	Z2	426	LEU	N-CA-C	9.33	124.61	109.59
29	b1	14	SER	N-CA-C	9.33	123.25	109.07
27	Z2	288	ASN	CA-C-N	-9.31	109.97	119.93
27	Z2	288	ASN	C-N-CA	-9.31	109.97	119.93
27	Z2	86	ASN	N-CA-C	9.30	125.77	113.30
26	Y2	1126	LEU	CA-C-O	-9.30	104.99	120.80
27	Z1	73	SER	CB-CA-C	-9.30	93.86	109.48
27	Z1	161	GLU	CA-C-O	9.29	130.40	120.36
27	Z2	147	GLU	CB-CA-C	9.29	125.47	110.88
26	Y2	1117	TYR	N-CA-CB	-9.27	94.73	110.50
27	Z2	53	LEU	N-CA-CB	9.27	126.15	110.49
26	Y2	1349	LEU	CB-CA-C	9.27	126.60	110.85
17	Q2	298	SER	O-C-N	9.26	134.97	123.21
27	Z1	213	PRO	N-CA-CB	9.26	112.98	103.25
17	Q2	826	SER	N-CA-C	-9.26	101.27	111.36
26	Y1	1349	LEU	CB-CA-C	9.26	126.59	110.85
27	Z1	147	GLU	CB-CA-C	9.25	125.40	110.88
25	X1	705	ASP	CA-C-O	9.24	130.50	120.80
27	Z2	213	PRO	N-CA-CB	9.24	112.95	103.25
27	Z2	59	PHE	N-CA-CB	9.24	123.17	110.98
27	Z1	59	PHE	N-CA-CB	9.24	123.17	110.98
27	Z1	135	LYS	N-CA-CB	9.23	126.09	110.49
27	Z1	53	LEU	N-CA-CB	9.23	126.09	110.49
27	Z1	199	THR	N-CA-C	9.23	124.80	112.25
27	Z1	46	TYR	N-CA-CB	9.22	126.08	110.49
27	Z1	290	PHE	N-CA-C	-9.21	94.66	109.40
27	Z1	612	ILE	CA-C-O	-9.21	105.15	120.80
17	Q1	298	SER	O-C-N	9.20	134.89	123.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	135	LYS	N-CA-CB	9.19	126.02	110.49
27	Z2	290	PHE	N-CA-C	-9.19	94.70	109.40
27	Z2	46	TYR	N-CA-CB	9.18	126.01	110.49
17	Q1	826	SER	N-CA-C	-9.18	101.36	111.36
29	b2	71	HIS	N-CA-CB	-9.18	97.02	110.70
27	Z2	281	VAL	CB-CA-C	-9.17	97.32	111.26
27	Z2	290	PHE	N-CA-CB	9.17	126.46	110.23
29	b2	16	ILE	N-CA-C	9.17	121.94	108.65
27	Z2	65	LEU	N-CA-C	9.16	123.27	109.25
27	Z1	65	LEU	N-CA-C	9.15	123.26	109.25
27	Z1	281	VAL	CB-CA-C	-9.14	97.36	111.26
27	Z1	286	THR	CA-C-O	9.12	130.85	120.54
27	Z1	290	PHE	N-CA-CB	9.12	126.38	110.23
25	X2	754	ASN	CB-CA-C	9.12	125.93	110.79
27	Z2	199	THR	N-CA-C	9.11	124.64	112.25
29	b1	80	TYR	CA-C-O	-9.10	105.65	120.85
29	b1	10	ILE	N-CA-C	-9.10	94.22	107.78
27	Z2	286	THR	CA-C-O	9.10	130.82	120.54
27	Z1	379	ASN	CA-C-N	-9.09	109.20	122.84
27	Z1	379	ASN	C-N-CA	-9.09	109.20	122.84
25	X1	754	ASN	CB-CA-C	9.09	125.88	110.79
27	Z2	286	THR	CA-C-N	9.08	134.89	120.82
27	Z2	286	THR	C-N-CA	9.08	134.89	120.82
27	Z1	211	PHE	CB-CA-C	-9.06	92.40	110.42
27	Z2	302	ILE	N-CA-CB	9.05	125.39	111.99
27	Z1	193	THR	CA-C-O	9.05	130.47	120.70
27	Z1	302	ILE	N-CA-CB	9.05	125.38	111.99
27	Z1	63	LEU	CB-CA-C	9.03	126.68	110.16
17	Q2	567	PHE	CA-CB-CG	-9.03	104.78	113.80
25	X1	638	ASP	CB-CA-C	-9.02	92.47	110.42
27	Z1	45	TRP	CA-C-O	9.01	131.09	120.99
27	Z1	185	LEU	CA-C-N	9.01	138.75	121.54
27	Z1	185	LEU	C-N-CA	9.01	138.75	121.54
27	Z2	211	PHE	CB-CA-C	-9.01	92.50	110.42
17	Q1	567	PHE	CA-CB-CG	-9.00	104.80	113.80
27	Z1	286	THR	CA-C-N	9.00	134.77	120.82
27	Z1	286	THR	C-N-CA	9.00	134.77	120.82
27	Z2	193	THR	CA-C-O	8.99	130.41	120.70
27	Z2	379	ASN	CA-C-N	-8.98	109.37	122.84
27	Z2	379	ASN	C-N-CA	-8.98	109.37	122.84
27	Z1	186	GLU	CA-C-N	8.97	134.41	122.30
27	Z1	186	GLU	C-N-CA	8.97	134.41	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	45	TRP	CA-C-O	8.96	131.03	120.99
27	Z1	162	LYS	CB-CA-C	8.96	122.43	109.08
27	Z2	185	LEU	CA-C-N	8.94	138.61	121.54
27	Z2	185	LEU	C-N-CA	8.94	138.61	121.54
27	Z2	186	GLU	CA-C-N	8.91	134.32	122.30
27	Z2	186	GLU	C-N-CA	8.91	134.32	122.30
25	X2	789	GLU	CB-CA-C	8.90	123.02	109.13
27	Z1	154	PHE	CA-C-N	8.90	136.59	122.34
27	Z1	154	PHE	C-N-CA	8.90	136.59	122.34
27	Z2	162	LYS	CB-CA-C	8.90	122.34	109.08
17	Q2	857	LEU	N-CA-C	-8.89	101.56	111.07
27	Z2	154	PHE	CA-C-N	8.89	136.56	122.34
27	Z2	154	PHE	C-N-CA	8.89	136.56	122.34
27	Z1	150	THR	CB-CA-C	-8.89	94.34	109.72
26	Y2	1292	LYS	CB-CA-C	8.88	124.93	110.90
26	Y1	1238	PHE	CA-C-O	-8.87	107.82	120.51
27	Z2	183	THR	CA-C-N	-8.87	108.17	122.36
27	Z2	183	THR	C-N-CA	-8.87	108.17	122.36
29	b1	57	TRP	N-CA-CB	8.87	125.45	110.46
27	Z2	150	THR	CB-CA-C	-8.86	94.39	109.72
26	Y1	1292	LYS	CB-CA-C	8.84	124.87	110.90
27	Z1	45	TRP	N-CA-C	-8.84	95.11	108.99
29	b2	90	LYS	CA-C-O	8.84	131.21	120.60
17	Q1	582	GLU	N-CA-C	-8.84	101.55	111.71
27	Z2	45	TRP	N-CA-C	-8.83	95.13	108.99
27	Z2	421	GLU	CB-CA-C	8.81	127.78	112.00
27	Z1	421	GLU	CB-CA-C	8.81	127.77	112.00
27	Z1	71	VAL	CA-C-N	-8.80	109.56	122.58
27	Z1	71	VAL	C-N-CA	-8.80	109.56	122.58
17	Q2	582	GLU	N-CA-C	-8.79	101.60	111.71
29	b2	67	SER	N-CA-C	8.79	123.39	109.50
17	Q1	857	LEU	N-CA-C	-8.79	101.66	111.07
27	Z2	71	VAL	CA-C-N	-8.79	109.57	122.58
27	Z2	71	VAL	C-N-CA	-8.79	109.57	122.58
17	Q2	124	PHE	CA-CB-CG	-8.78	105.02	113.80
25	X1	637	LEU	N-CA-CB	8.78	125.42	110.50
29	b1	79	PHE	CA-C-O	-8.77	111.69	121.51
27	Z1	186	GLU	CB-CA-C	-8.76	92.99	110.42
29	b2	8	THR	N-CA-C	-8.76	82.97	107.84
26	Y2	1238	PHE	CA-C-O	-8.75	107.99	120.51
27	Z2	186	GLU	CB-CA-C	-8.75	93.00	110.42
17	Q1	124	PHE	CA-CB-CG	-8.75	105.05	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	183	THR	CA-C-N	-8.74	108.37	122.36
27	Z1	183	THR	C-N-CA	-8.74	108.37	122.36
27	Z2	411	GLU	CA-C-O	8.73	130.70	120.66
27	Z1	411	GLU	CA-C-O	8.71	130.68	120.66
27	Z1	56	SER	CA-C-O	-8.71	111.32	121.16
27	Z2	312	ASN	CA-C-N	8.71	137.26	121.85
27	Z2	312	ASN	C-N-CA	8.71	137.26	121.85
27	Z1	89	PHE	N-CA-CB	-8.70	95.26	111.00
27	Z2	78	ASP	CB-CA-C	8.69	123.90	109.56
27	Z1	78	ASP	CB-CA-C	8.69	123.90	109.56
27	Z1	217	LEU	N-CA-CB	8.69	123.09	110.58
26	Y2	1316	GLU	CB-CA-C	8.69	123.89	109.56
29	b2	59	VAL	N-CA-C	8.68	120.16	108.27
27	Z1	312	ASN	CA-C-N	8.67	137.20	121.85
27	Z1	312	ASN	C-N-CA	8.67	137.20	121.85
29	b1	80	TYR	CB-CA-C	-8.67	97.11	111.51
27	Z2	212	LEU	CA-C-O	8.66	130.01	120.05
27	Z2	217	LEU	N-CA-CB	8.65	123.04	110.58
26	Y1	1316	GLU	CB-CA-C	8.65	123.83	109.56
29	b2	10	ILE	CA-C-O	8.64	130.34	120.67
27	Z2	393	LEU	CB-CA-C	8.63	125.12	110.79
27	Z2	451	SER	N-CA-CB	-8.63	95.90	110.49
27	Z2	157	LEU	CA-C-N	-8.61	110.63	122.86
27	Z2	157	LEU	C-N-CA	-8.61	110.63	122.86
27	Z1	101	GLU	N-CA-C	8.61	129.14	110.80
27	Z1	393	LEU	CB-CA-C	8.60	125.07	110.79
27	Z2	307	ILE	N-CA-C	8.60	122.69	112.80
27	Z2	89	PHE	N-CA-CB	-8.60	95.44	111.00
27	Z2	101	GLU	N-CA-C	8.59	129.10	110.80
27	Z1	212	LEU	CA-C-O	8.59	129.92	120.05
27	Z2	56	SER	CA-C-O	-8.58	111.46	121.16
29	b1	89	PHE	CA-C-N	8.58	134.88	122.44
29	b1	89	PHE	C-N-CA	8.58	134.88	122.44
29	b2	82	GLY	CA-C-N	8.57	130.55	119.84
29	b2	82	GLY	C-N-CA	8.57	130.55	119.84
27	Z1	130	VAL	CB-CA-C	-8.56	97.25	111.29
27	Z1	170	ASN	CA-C-O	-8.56	111.09	121.36
27	Z1	307	ILE	N-CA-C	8.56	122.64	112.80
27	Z2	170	ASN	CA-C-O	-8.56	111.09	121.36
27	Z1	213	PRO	CA-N-CD	-8.54	100.04	112.00
27	Z2	184	ASP	N-CA-CB	-8.54	97.78	111.62
27	Z1	55	HIS	N-CA-C	8.54	122.31	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	130	VAL	CB-CA-C	-8.54	97.29	111.29
25	X2	679	LEU	CB-CA-C	8.53	125.35	110.85
29	b1	63	LYS	CB-CA-C	8.53	123.35	109.02
27	Z2	373	LEU	N-CA-CB	-8.53	96.72	111.55
29	b2	52	LYS	CB-CA-C	8.52	126.97	111.03
27	Z2	213	PRO	CA-N-CD	-8.52	100.08	112.00
26	Y2	1124	THR	CB-CA-C	-8.51	95.49	109.53
27	Z1	366	LEU	CA-C-N	8.51	129.34	119.47
27	Z1	366	LEU	C-N-CA	8.51	129.34	119.47
27	Z1	184	ASP	N-CA-CB	-8.50	97.86	111.62
25	X1	679	LEU	CB-CA-C	8.49	125.29	110.85
26	Y2	1126	LEU	N-CA-CB	8.49	124.94	110.50
19	R2	24	ILE	N-CA-C	8.48	125.79	113.16
29	b2	79	PHE	CA-C-O	-8.48	112.02	121.51
25	X2	720	ALA	CB-CA-C	8.47	125.26	110.85
27	Z2	186	GLU	N-CA-CB	8.47	124.81	110.49
27	Z2	38	ILE	N-CA-C	8.47	120.13	107.51
27	Z1	369	GLN	N-CA-C	-8.46	93.72	108.69
27	Z1	373	LEU	N-CA-CB	-8.45	96.85	111.55
27	Z1	38	ILE	N-CA-C	8.44	120.09	107.51
27	Z1	159	SER	N-CA-C	-8.44	102.75	113.72
27	Z2	55	HIS	N-CA-C	8.44	122.16	109.25
27	Z2	411	GLU	CA-C-N	8.44	134.37	122.72
27	Z2	411	GLU	C-N-CA	8.44	134.37	122.72
27	Z2	655	LEU	CB-CA-C	8.44	125.20	110.85
27	Z2	379	ASN	CB-CA-C	8.44	124.43	110.17
27	Z1	186	GLU	N-CA-CB	8.43	124.74	110.49
29	b2	91	THR	CB-CA-C	-8.41	93.69	110.42
17	Q1	674	ASN	CA-CB-CG	-8.41	104.19	112.60
27	Z1	655	LEU	CB-CA-C	8.40	125.13	110.85
27	Z2	369	GLN	N-CA-C	-8.40	93.82	108.69
26	Y1	1230	GLU	N-CA-C	-8.40	101.15	111.40
25	X1	720	ALA	CB-CA-C	8.39	125.11	110.85
27	Z1	206	PHE	CB-CA-C	-8.38	93.75	110.42
27	Z2	206	PHE	CB-CA-C	-8.37	93.76	110.42
26	Y2	1122	ILE	CB-CA-C	-8.37	97.30	110.69
27	Z2	65	LEU	CA-C-N	-8.37	106.05	123.20
27	Z2	65	LEU	C-N-CA	-8.37	106.05	123.20
27	Z2	434	GLN	CB-CA-C	-8.37	96.08	109.80
27	Z1	141	CYS	N-CA-C	8.36	122.54	109.07
27	Z2	366	LEU	CA-C-N	8.36	129.17	119.47
27	Z2	366	LEU	C-N-CA	8.36	129.17	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	444	THR	CB-CA-C	-8.36	96.26	109.72
27	Z1	127	ILE	N-CA-C	8.36	119.87	108.84
27	Z1	434	GLN	CB-CA-C	-8.36	96.10	109.80
17	Q2	674	ASN	CA-CB-CG	-8.35	104.25	112.60
26	Y2	1230	GLU	N-CA-C	-8.35	101.21	111.40
29	b1	79	PHE	N-CA-C	8.35	121.58	109.14
25	X2	700	ILE	N-CA-C	-8.35	102.73	111.58
26	Y1	1316	GLU	N-CA-C	-8.35	102.69	113.12
26	Y1	1383	ALA	N-CA-CB	-8.34	96.39	110.49
29	b2	57	TRP	CA-C-N	-8.34	108.24	122.92
29	b2	57	TRP	C-N-CA	-8.34	108.24	122.92
27	Z1	444	THR	CB-CA-C	-8.34	96.30	109.72
27	Z1	42	ILE	N-CA-C	-8.33	96.12	108.45
26	Y2	1267	GLU	N-CA-CB	-8.33	96.34	110.50
26	Y2	1211	LEU	N-CA-CB	8.32	124.65	110.50
27	Z2	143	VAL	CA-C-N	-8.32	112.37	123.10
27	Z2	143	VAL	C-N-CA	-8.32	112.37	123.10
17	Q1	61	PHE	CA-CB-CG	-8.32	105.48	113.80
27	Z1	65	LEU	CA-C-N	-8.32	106.15	123.20
27	Z1	65	LEU	C-N-CA	-8.32	106.15	123.20
27	Z2	23	PRO	CB-CA-C	8.32	125.90	110.10
27	Z1	181	ASP	N-CA-CB	8.31	124.63	112.08
27	Z1	422	ARG	CB-CA-C	8.31	126.72	109.68
25	X1	700	ILE	N-CA-C	-8.31	102.78	111.58
27	Z2	42	ILE	N-CA-C	-8.31	96.16	108.45
26	Y1	1122	ILE	CB-CA-C	-8.29	98.22	110.33
27	Z1	409	LYS	CA-C-O	-8.29	111.27	120.81
27	Z2	422	ARG	CB-CA-C	8.29	126.67	109.68
27	Z2	659	LYS	CA-C-O	-8.29	111.77	120.55
27	Z1	411	GLU	CA-C-N	8.28	134.15	122.72
27	Z1	411	GLU	C-N-CA	8.28	134.15	122.72
26	Y2	1316	GLU	N-CA-C	-8.28	102.78	113.12
29	b2	9	PRO	N-CA-CB	8.28	110.53	103.25
26	Y2	1429	LYS	N-CA-CB	-8.25	96.47	110.50
27	Z2	409	LYS	CA-C-O	-8.25	111.32	120.81
18	R1	580	PHE	CA-CB-CG	-8.24	105.56	113.80
17	Q2	848	PHE	CA-CB-CG	-8.24	105.56	113.80
17	Q2	61	PHE	CA-CB-CG	-8.23	105.57	113.80
27	Z1	659	LYS	CA-C-O	-8.23	111.83	120.55
27	Z2	141	CYS	N-CA-C	8.23	122.32	109.07
27	Z1	418	ALA	N-CA-CB	8.22	124.39	110.49
29	b2	54	GLY	CA-C-N	-8.22	105.84	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b2	54	GLY	C-N-CA	-8.22	105.84	121.54
19	R2	580	PHE	CA-CB-CG	-8.22	105.58	113.80
27	Z2	181	ASP	N-CA-CB	8.22	124.49	112.08
29	b1	11	VAL	N-CA-C	-8.22	96.67	108.17
29	b1	12	LYS	N-CA-C	-8.21	101.12	112.12
29	b1	86	PHE	N-CA-C	8.21	122.24	108.20
17	Q1	848	PHE	CA-CB-CG	-8.21	105.59	113.80
29	b2	63	LYS	CB-CA-C	8.19	122.78	109.02
27	Z2	332	GLU	CA-C-N	8.18	133.73	122.19
27	Z2	332	GLU	C-N-CA	8.18	133.73	122.19
26	Y1	1453	PHE	N-CA-C	-8.18	101.80	112.68
27	Z1	143	VAL	CA-C-N	-8.18	112.55	123.10
27	Z1	143	VAL	C-N-CA	-8.18	112.55	123.10
27	Z1	142	ILE	CA-C-O	8.18	130.24	120.67
27	Z1	240	THR	N-CA-CB	8.18	124.31	110.49
27	Z2	127	ILE	N-CA-C	8.18	119.64	108.84
27	Z1	332	GLU	CA-C-N	8.17	133.71	122.19
27	Z1	332	GLU	C-N-CA	8.17	133.71	122.19
27	Z1	143	VAL	N-CA-CB	8.16	120.96	111.66
29	b2	79	PHE	N-CA-C	8.16	121.29	109.14
27	Z1	348	LEU	CA-C-N	-8.15	110.46	122.68
27	Z1	348	LEU	C-N-CA	-8.15	110.46	122.68
27	Z2	193	THR	CB-CA-C	-8.14	93.83	109.37
26	Y1	1267	GLU	N-CA-CB	-8.13	97.70	110.22
27	Z2	240	THR	N-CA-CB	8.13	124.23	110.49
26	Y2	1453	PHE	N-CA-C	-8.13	101.87	112.68
27	Z1	193	THR	CB-CA-C	-8.12	93.87	109.37
27	Z2	142	ILE	CA-C-O	8.11	130.16	120.67
29	b2	15	ASP	CB-CA-C	-8.11	98.49	112.44
26	Y1	1411	LEU	CA-C-O	-8.11	108.92	120.51
27	Z1	95	TRP	CA-C-O	8.10	132.09	120.51
27	Z1	193	THR	N-CA-CB	-8.10	96.74	110.83
27	Z2	362	SER	CA-C-O	-8.10	108.93	120.51
27	Z2	37	PHE	N-CA-CB	8.08	123.93	110.59
27	Z1	37	PHE	N-CA-CB	8.07	123.91	110.59
27	Z2	193	THR	N-CA-CB	-8.07	96.79	110.83
27	Z1	442	ASN	CB-CA-C	8.07	124.18	110.79
27	Z2	143	VAL	N-CA-CB	8.06	120.86	111.66
29	b1	57	TRP	CA-C-N	-8.06	108.72	122.92
29	b1	57	TRP	C-N-CA	-8.06	108.72	122.92
17	Q2	297	LEU	CA-C-N	-8.06	111.24	122.93
17	Q2	297	LEU	C-N-CA	-8.06	111.24	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q1	297	LEU	CA-C-N	-8.06	111.24	122.93
17	Q1	297	LEU	C-N-CA	-8.06	111.24	122.93
27	Z1	280	LYS	N-CA-CB	8.05	123.44	110.16
27	Z1	177	ALA	N-CA-C	-8.05	101.26	112.45
27	Z2	26	ILE	N-CA-C	8.05	119.30	108.27
27	Z2	377	SER	CB-CA-C	8.05	124.10	109.37
27	Z1	377	SER	CB-CA-C	8.04	124.09	109.37
21	T1	154	ALA	CA-C-N	-8.04	112.43	120.31
21	T1	154	ALA	C-N-CA	-8.04	112.43	120.31
27	Z2	248	ASN	CB-CA-C	8.04	123.50	110.88
27	Z1	248	ASN	CB-CA-C	8.04	123.50	110.88
26	Y1	1287	ASN	CB-CA-C	8.03	124.28	110.79
27	Z2	95	TRP	CA-C-O	8.03	132.00	120.51
21	T2	154	ALA	CA-C-N	-8.03	112.44	120.31
21	T2	154	ALA	C-N-CA	-8.03	112.44	120.31
27	Z2	149	ASP	CA-C-N	8.03	134.08	123.00
27	Z2	149	ASP	C-N-CA	8.03	134.08	123.00
27	Z2	442	ASN	CB-CA-C	8.02	124.11	110.79
27	Z1	362	SER	CA-C-O	-8.02	109.04	120.51
27	Z2	348	LEU	CA-C-N	-8.02	110.65	122.68
27	Z2	348	LEU	C-N-CA	-8.02	110.65	122.68
27	Z2	291	PRO	N-CA-C	-8.01	97.62	111.32
17	Q2	261	PHE	CA-CB-CG	-8.01	105.79	113.80
27	Z1	207	ALA	N-CA-CB	-8.01	98.07	110.56
27	Z1	26	ILE	N-CA-C	8.01	119.24	108.27
27	Z2	280	LYS	N-CA-CB	8.01	123.37	110.16
27	Z2	318	SER	CB-CA-C	-8.00	94.97	109.38
26	Y2	1287	ASN	CB-CA-C	8.00	124.23	110.79
27	Z1	382	GLN	CA-C-O	8.00	130.72	121.28
27	Z1	291	PRO	N-CA-C	-8.00	97.65	111.32
17	Q1	872	ILE	CB-CA-C	-7.99	101.75	111.97
27	Z2	211	PHE	N-CA-C	7.99	127.81	110.80
29	b1	77	VAL	N-CA-C	7.98	125.95	109.34
27	Z1	216	LEU	CA-C-N	7.98	135.03	122.26
27	Z1	216	LEU	C-N-CA	7.98	135.03	122.26
29	b2	9	PRO	CA-N-CD	-7.98	100.83	112.00
17	Q2	975	PHE	CA-CB-CG	-7.98	105.82	113.80
27	Z2	177	ALA	N-CA-C	-7.98	101.36	112.45
17	Q2	807	PHE	CA-CB-CG	-7.97	105.83	113.80
27	Z2	197	LEU	CA-C-O	-7.97	111.93	120.46
27	Z1	149	ASP	CA-C-N	7.97	134.00	123.00
27	Z1	149	ASP	C-N-CA	7.97	134.00	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	211	PHE	N-CA-C	7.97	127.77	110.80
27	Z1	318	SER	CB-CA-C	-7.96	95.05	109.38
17	Q1	261	PHE	CA-CB-CG	-7.96	105.84	113.80
27	Z2	216	LEU	CA-C-N	7.96	135.00	122.26
27	Z2	216	LEU	C-N-CA	7.96	135.00	122.26
27	Z1	197	LEU	CA-C-O	-7.96	111.95	120.46
26	Y1	1453	PHE	CB-CA-C	7.95	123.51	110.24
17	Q1	807	PHE	CA-CB-CG	-7.95	105.86	113.80
26	Y2	1454	LYS	CB-CA-C	7.94	123.52	110.81
27	Z1	523	ASN	N-CA-C	7.94	127.71	110.80
27	Z1	218	LEU	CB-CA-C	-7.94	93.27	109.38
27	Z1	372	LYS	N-CA-C	7.94	122.63	109.46
25	X2	705	ASP	CB-CA-C	7.93	125.11	110.11
27	Z2	326	LEU	N-CA-C	-7.93	97.66	110.20
27	Z1	326	LEU	N-CA-C	-7.93	97.67	110.20
26	Y2	1453	PHE	CB-CA-C	7.92	123.47	110.24
26	Y1	1454	LYS	CB-CA-C	7.92	123.48	110.81
27	Z2	382	GLN	CA-C-O	7.91	130.62	121.28
27	Z2	46	TYR	CB-CA-C	-7.91	94.69	110.42
27	Z1	46	TYR	CB-CA-C	-7.90	94.69	110.42
17	Q1	717	CYS	N-CA-C	-7.90	102.75	111.36
17	Q2	872	ILE	CB-CA-C	-7.90	101.86	111.97
27	Z2	207	ALA	N-CA-CB	-7.90	98.24	110.56
17	Q1	975	PHE	CA-CB-CG	-7.90	105.90	113.80
27	Z2	218	LEU	CB-CA-C	-7.88	93.38	109.38
17	Q2	717	CYS	N-CA-C	-7.88	102.77	111.36
27	Z1	611	GLN	CA-C-O	-7.88	111.35	120.49
27	Z2	198	ASN	CA-C-O	-7.87	111.91	121.11
27	Z1	324	LEU	CA-C-O	7.86	129.69	120.66
27	Z2	372	LYS	N-CA-C	7.86	122.50	109.46
29	b1	35	TYR	CB-CA-C	7.86	127.09	111.22
26	Y2	1238	PHE	CB-CA-C	7.86	126.05	110.42
25	X2	771	ASN	CB-CA-C	7.84	123.19	110.88
27	Z1	198	ASN	CA-C-O	-7.84	111.94	121.11
17	Q1	1031	PHE	CA-CB-CG	-7.83	105.97	113.80
27	Z2	324	LEU	CA-C-O	7.83	129.66	120.66
27	Z2	425	ASN	CA-C-N	-7.83	111.58	122.93
27	Z2	425	ASN	C-N-CA	-7.83	111.58	122.93
27	Z2	612	ILE	N-CA-CB	7.82	124.80	111.50
27	Z1	425	ASN	CA-C-N	-7.82	111.59	122.93
27	Z1	425	ASN	C-N-CA	-7.82	111.59	122.93
25	X1	771	ASN	CB-CA-C	7.79	123.11	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	287	ILE	N-CA-CB	7.79	127.12	111.24
29	b1	17	THR	CA-C-O	7.78	129.87	120.92
17	Q1	712	PHE	CA-CB-CG	-7.78	106.02	113.80
17	Q2	712	PHE	CA-CB-CG	-7.77	106.03	113.80
27	Z2	339	VAL	CA-C-O	-7.77	112.92	121.23
29	b1	59	VAL	N-CA-C	7.76	118.90	108.27
25	X1	637	LEU	CA-C-N	7.75	136.35	121.54
25	X1	637	LEU	C-N-CA	7.75	136.35	121.54
27	Z1	42	ILE	CB-CA-C	-7.75	97.30	110.71
29	b1	36	GLN	N-CA-CB	7.75	123.58	110.49
17	Q2	1031	PHE	CA-CB-CG	-7.74	106.06	113.80
26	Y2	1333	ASP	N-CA-C	7.74	127.29	110.80
27	Z2	241	THR	N-CA-CB	7.74	125.13	111.13
26	Y2	1332	LYS	CA-C-N	7.73	136.31	121.54
26	Y2	1332	LYS	C-N-CA	7.73	136.31	121.54
17	Q2	603	ILE	N-CA-C	-7.73	102.91	110.72
17	Q1	603	ILE	N-CA-C	-7.73	102.92	110.72
27	Z1	11	PRO	N-CA-C	7.72	128.38	112.47
27	Z2	188	SER	N-CA-C	-7.72	99.85	110.35
27	Z1	241	THR	N-CA-CB	7.71	125.08	111.13
27	Z2	11	PRO	N-CA-C	7.70	128.34	112.47
27	Z1	287	ILE	N-CA-CB	7.70	126.94	111.24
27	Z1	188	SER	N-CA-C	-7.69	99.89	110.35
27	Z2	42	ILE	CB-CA-C	-7.68	97.42	110.71
27	Z1	184	ASP	CB-CA-C	-7.66	93.60	110.67
27	Z2	184	ASP	CB-CA-C	-7.64	93.63	110.67
27	Z1	8	SER	CB-CA-C	-7.62	95.25	110.42
29	b1	71	HIS	N-CA-CB	-7.61	98.86	111.20
27	Z1	401	ASP	N-CA-C	7.61	121.90	107.75
27	Z1	408	LEU	N-CA-C	7.60	127.00	110.80
27	Z2	8	SER	CB-CA-C	7.59	124.86	110.35
27	Z1	213	PRO	CB-CA-C	-7.59	99.04	111.56
26	Y1	1120	SER	N-CA-CB	-7.58	97.55	111.13
29	b2	80	TYR	CA-C-O	-7.58	108.19	120.85
27	Z1	14	GLN	CA-C-N	7.58	136.01	121.54
27	Z1	14	GLN	C-N-CA	7.58	136.01	121.54
25	X1	708	GLU	N-CA-C	7.58	119.62	111.36
27	Z1	56	SER	N-CA-CB	-7.58	98.73	110.85
27	Z2	14	GLN	CA-C-N	7.58	136.01	121.54
27	Z2	14	GLN	C-N-CA	7.58	136.01	121.54
27	Z2	213	PRO	CB-CA-C	-7.57	99.07	111.56
29	b2	12	LYS	N-CA-C	-7.57	103.03	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b2	36	GLN	CB-CA-C	-7.57	99.32	111.28
27	Z2	408	LEU	N-CA-C	7.57	126.92	110.80
17	Q1	87	ASN	CA-C-N	7.57	128.24	120.60
17	Q1	87	ASN	C-N-CA	7.57	128.24	120.60
25	X2	743	GLN	N-CA-C	-7.57	89.82	111.00
26	Y1	1125	ASP	CA-C-O	7.56	129.19	120.80
26	Y2	1412	GLU	CA-C-O	-7.56	107.95	120.80
27	Z1	218	LEU	CA-C-N	7.56	133.15	122.72
27	Z1	218	LEU	C-N-CA	7.56	133.15	122.72
27	Z2	47	ASN	CA-CB-CG	7.55	120.15	112.60
26	Y1	1382	VAL	CA-C-O	7.55	133.64	120.80
27	Z1	41	ASN	CA-C-N	-7.55	111.83	122.71
27	Z1	41	ASN	C-N-CA	-7.55	111.83	122.71
25	X2	708	GLU	N-CA-C	7.55	119.58	111.36
27	Z2	413	LYS	CB-CA-C	-7.54	98.17	110.77
27	Z2	38	ILE	CA-C-N	-7.53	111.62	121.79
27	Z2	38	ILE	C-N-CA	-7.53	111.62	121.79
27	Z2	344	TYR	N-CA-CB	-7.53	97.76	110.49
27	Z2	279	ALA	CA-C-N	7.53	132.81	122.19
27	Z2	279	ALA	C-N-CA	7.53	132.81	122.19
27	Z2	162	LYS	N-CA-CB	7.52	121.45	110.32
17	Q2	87	ASN	CA-C-N	7.52	128.19	120.60
17	Q2	87	ASN	C-N-CA	7.52	128.19	120.60
27	Z1	138	ARG	CB-CA-C	-7.51	96.86	111.06
29	b2	35	TYR	CA-C-O	-7.51	112.58	120.99
27	Z1	413	LYS	CB-CA-C	-7.51	98.23	110.77
26	Y2	1390	LEU	N-CA-C	-7.50	102.70	112.68
23	V1	288	SER	N-CA-C	-7.50	102.25	111.40
27	Z1	38	ILE	CA-C-N	-7.49	111.67	121.79
27	Z1	38	ILE	C-N-CA	-7.49	111.67	121.79
27	Z1	323	SER	CA-C-N	-7.49	110.59	122.73
27	Z1	323	SER	C-N-CA	-7.49	110.59	122.73
17	Q2	288	ASN	CA-CB-CG	-7.49	105.11	112.60
27	Z1	217	LEU	CA-C-N	-7.49	109.49	122.37
27	Z1	217	LEU	C-N-CA	-7.49	109.49	122.37
27	Z2	41	ASN	CA-C-N	-7.49	111.93	122.71
27	Z2	41	ASN	C-N-CA	-7.49	111.93	122.71
27	Z1	45	TRP	CA-C-N	7.48	135.82	121.54
27	Z1	45	TRP	C-N-CA	7.48	135.82	121.54
27	Z1	660	SER	CB-CA-C	7.48	123.35	110.79
27	Z2	218	LEU	CA-C-N	7.48	133.04	122.72
27	Z2	218	LEU	C-N-CA	7.48	133.04	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b1	76	PHE	CB-CA-C	-7.47	96.87	109.50
26	Y1	1390	LEU	N-CA-C	-7.47	102.75	112.68
27	Z2	46	TYR	N-CA-C	7.47	126.71	110.80
27	Z2	56	SER	N-CA-CB	-7.47	98.90	110.85
27	Z2	45	TRP	CA-C-N	7.46	135.78	121.54
27	Z2	45	TRP	C-N-CA	7.46	135.78	121.54
27	Z2	660	SER	CB-CA-C	7.46	123.31	110.79
27	Z1	139	ASP	CA-CB-CG	7.45	120.05	112.60
27	Z2	138	ARG	CB-CA-C	-7.45	96.97	111.06
27	Z2	401	ASP	N-CA-C	7.45	121.61	107.75
26	Y2	1411	LEU	N-CA-C	7.45	120.94	108.13
27	Z2	99	ASN	CA-C-O	7.45	129.22	120.66
27	Z1	344	TYR	N-CA-CB	-7.45	97.91	110.49
27	Z2	448	GLN	CA-C-N	-7.45	111.56	122.65
27	Z2	448	GLN	C-N-CA	-7.45	111.56	122.65
27	Z1	162	LYS	N-CA-CB	7.44	121.33	110.32
29	b2	86	PHE	CA-C-O	-7.44	112.33	120.36
26	Y1	1274	ASN	CA-CB-CG	-7.44	105.16	112.60
25	X1	638	ASP	N-CA-C	-7.44	94.96	110.80
27	Z2	304	THR	CA-C-O	-7.44	112.14	120.32
27	Z1	279	ALA	CA-C-N	7.43	132.67	122.19
27	Z1	279	ALA	C-N-CA	7.43	132.67	122.19
27	Z1	100	VAL	N-CA-C	-7.43	105.88	112.12
27	Z2	361	LYS	N-CA-C	7.43	120.25	111.71
27	Z2	658	LEU	CA-C-N	7.43	130.24	120.28
27	Z2	658	LEU	C-N-CA	7.43	130.24	120.28
27	Z1	304	THR	CA-C-O	-7.43	112.15	120.32
23	V2	288	SER	N-CA-C	-7.43	102.34	111.40
27	Z2	217	LEU	CA-C-N	-7.43	109.60	122.37
27	Z2	217	LEU	C-N-CA	-7.43	109.60	122.37
27	Z2	139	ASP	CA-CB-CG	7.42	120.02	112.60
17	Q1	288	ASN	CA-CB-CG	-7.42	105.18	112.60
27	Z1	46	TYR	N-CA-C	7.42	126.60	110.80
27	Z1	398	ASN	N-CA-C	-7.42	102.81	112.68
27	Z2	611	GLN	N-CA-CB	-7.42	97.79	109.51
27	Z1	658	LEU	CA-C-N	7.41	130.21	120.28
27	Z1	658	LEU	C-N-CA	7.41	130.21	120.28
27	Z2	100	VAL	N-CA-C	-7.41	105.89	112.12
26	Y2	1274	ASN	CA-CB-CG	-7.41	105.19	112.60
25	X2	637	LEU	CA-C-O	7.41	133.39	120.80
27	Z1	708	PHE	N-CA-C	7.40	119.35	111.28
27	Z2	323	SER	CA-C-N	-7.40	110.74	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	323	SER	C-N-CA	-7.40	110.74	122.73
29	b1	82	GLY	CA-C-N	7.40	129.09	119.84
29	b1	82	GLY	C-N-CA	7.40	129.09	119.84
17	Q1	864	PHE	CA-CB-CG	-7.40	106.40	113.80
29	b2	11	VAL	CA-C-O	7.40	128.49	120.57
26	Y2	1396	LEU	CB-CA-C	7.39	123.07	110.79
27	Z2	71	VAL	CB-CA-C	7.39	121.64	110.62
17	Q2	864	PHE	CA-CB-CG	-7.39	106.41	113.80
27	Z2	289	PRO	CB-CA-C	7.39	121.02	111.64
27	Z2	406	ALA	CA-C-O	7.38	131.07	120.51
27	Z2	398	ASN	N-CA-C	-7.38	102.86	112.68
27	Z1	448	GLN	CA-C-N	-7.38	111.65	122.65
27	Z1	448	GLN	C-N-CA	-7.38	111.65	122.65
27	Z2	435	SER	CB-CA-C	7.37	121.69	109.53
27	Z1	362	SER	CB-CA-C	-7.37	95.76	110.42
26	Y1	1396	LEU	CB-CA-C	7.36	123.01	110.79
29	b2	52	LYS	CA-C-N	-7.36	110.97	122.67
29	b2	52	LYS	C-N-CA	-7.36	110.97	122.67
26	Y1	1301	LYS	CA-C-O	7.36	128.48	120.90
27	Z2	185	LEU	CB-CA-C	-7.36	95.11	109.68
27	Z2	210	PRO	N-CD-CG	-7.35	92.17	103.20
27	Z1	185	LEU	CB-CA-C	-7.35	95.13	109.68
27	Z1	210	PRO	N-CD-CG	-7.35	92.18	103.20
27	Z2	58	ASN	CA-C-O	7.35	129.27	121.19
27	Z1	289	PRO	CB-CA-C	7.34	120.97	111.64
28	a1	987	LEU	N-CA-C	-7.34	104.35	112.72
17	Q1	237	MET	N-CA-C	-7.34	98.96	109.96
27	Z1	47	ASN	CA-CB-CG	7.34	119.94	112.60
27	Z2	433	ASP	CB-CA-C	7.33	125.01	110.42
17	Q2	507	ILE	N-CA-C	-7.33	100.12	109.58
27	Z1	406	ALA	CA-C-O	7.33	130.99	120.51
29	b1	52	LYS	CB-CA-C	7.33	124.73	111.03
27	Z1	71	VAL	CB-CA-C	7.32	121.53	110.62
27	Z1	659	LYS	CA-C-N	7.32	132.94	120.71
27	Z1	659	LYS	C-N-CA	7.32	132.94	120.71
27	Z2	344	TYR	N-CA-C	7.32	126.39	110.80
27	Z2	373	LEU	CA-C-O	7.32	130.00	121.44
17	Q2	237	MET	N-CA-C	-7.32	98.98	109.96
27	Z1	344	TYR	N-CA-C	7.32	126.39	110.80
28	a2	987	LEU	N-CA-C	-7.32	104.38	112.72
27	Z1	99	ASN	CA-C-O	7.32	129.07	120.66
29	b2	76	PHE	CB-CA-C	-7.31	97.14	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	120	GLU	CA-C-O	-7.31	108.38	120.80
27	Z1	433	ASP	CB-CA-C	7.31	124.97	110.42
26	Y2	1342	GLN	CB-CA-C	7.31	123.93	110.56
27	Z1	361	LYS	N-CA-C	7.31	120.11	111.71
27	Z2	659	LYS	CA-C-N	7.30	132.91	120.71
27	Z2	659	LYS	C-N-CA	7.30	132.91	120.71
27	Z2	708	PHE	N-CA-C	7.30	119.24	111.28
29	b1	12	LYS	CA-C-N	-7.30	109.82	122.37
29	b1	12	LYS	C-N-CA	-7.30	109.82	122.37
27	Z1	435	SER	CB-CA-C	7.29	121.56	109.53
27	Z1	267	PHE	N-CA-C	-7.29	104.64	113.97
29	b2	65	PHE	CB-CA-C	-7.29	95.92	110.42
26	Y2	1119	GLU	N-CA-C	7.28	120.54	108.96
27	Z2	128	LYS	CB-CA-C	-7.28	98.41	110.72
17	Q1	507	ILE	N-CA-C	-7.28	100.19	109.58
27	Z1	289	PRO	N-CD-CG	-7.28	92.28	103.20
27	Z1	373	LEU	CA-C-O	7.28	129.95	121.44
17	Q2	723	PHE	CA-CB-CG	-7.27	106.53	113.80
27	Z1	341	ASN	CA-C-N	-7.27	112.75	122.85
27	Z1	341	ASN	C-N-CA	-7.27	112.75	122.85
27	Z1	128	LYS	CB-CA-C	-7.26	98.45	110.72
26	Y2	1362	LEU	N-CA-C	7.26	119.27	111.36
27	Z1	340	ASP	N-CA-C	-7.26	98.49	110.17
27	Z2	362	SER	CB-CA-C	-7.25	95.98	110.42
27	Z1	58	ASN	CA-C-O	7.25	129.17	121.19
27	Z2	180	ASN	N-CA-C	-7.25	98.04	109.07
26	Y1	1342	GLN	CB-CA-C	7.24	123.81	110.56
27	Z2	289	PRO	N-CD-CG	-7.24	92.34	103.20
17	Q2	912	LYS	CA-C-N	-7.24	111.67	122.24
17	Q2	912	LYS	C-N-CA	-7.24	111.67	122.24
29	b1	81	ILE	N-CA-CB	-7.23	102.65	110.53
27	Z2	267	PHE	N-CA-C	-7.23	104.72	113.97
25	X2	637	LEU	N-CA-CB	7.23	122.79	110.50
27	Z2	340	ASP	N-CA-C	-7.23	98.53	110.17
26	Y1	1275	ASN	N-CA-CB	7.22	122.60	110.32
27	Z2	323	SER	N-CA-C	7.22	121.01	109.24
25	X2	794	ILE	N-CA-CB	7.22	118.49	110.62
26	Y1	1435	LYS	CA-C-N	7.22	130.67	120.42
26	Y1	1435	LYS	C-N-CA	7.22	130.67	120.42
26	Y2	1275	ASN	N-CA-CB	7.21	122.58	110.32
25	X1	820	SER	CB-CA-C	7.20	123.87	110.70
27	Z1	47	ASN	N-CA-CB	-7.20	98.33	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	636	ASN	CA-C-O	7.20	128.56	121.00
29	b2	14	SER	N-CA-C	7.20	119.68	108.96
26	Y2	1301	LYS	CA-C-O	7.19	128.55	121.00
17	Q1	912	LYS	CA-C-N	-7.19	111.75	122.24
17	Q1	912	LYS	C-N-CA	-7.19	111.75	122.24
27	Z2	237	LEU	N-CA-C	7.18	120.24	109.25
27	Z2	281	VAL	CA-C-O	7.18	128.91	121.23
27	Z1	358	ARG	N-CA-C	7.18	120.62	110.50
26	Y2	1435	LYS	CA-C-N	7.17	130.61	120.42
26	Y2	1435	LYS	C-N-CA	7.17	130.61	120.42
29	b2	52	LYS	CA-C-O	7.17	129.24	120.56
27	Z1	180	ASN	N-CA-C	-7.17	98.17	109.07
27	Z1	323	SER	N-CA-C	7.17	120.92	109.24
17	Q1	723	PHE	CA-CB-CG	-7.16	106.64	113.80
17	Q2	236	SER	N-CA-C	-7.16	103.41	111.07
17	Q2	1040	LEU	CB-CA-C	-7.16	99.64	110.88
26	Y1	1295	VAL	CB-CA-C	-7.16	100.49	112.16
25	X2	669	LEU	CA-C-O	7.16	128.94	121.07
25	X2	820	SER	CB-CA-C	7.15	123.79	110.70
27	Z1	636	ASN	CA-C-O	7.15	128.51	121.00
27	Z1	447	PHE	N-CA-CB	-7.15	99.18	110.69
27	Z2	358	ARG	N-CA-C	7.14	120.58	110.50
27	Z1	23	PRO	N-CA-CB	7.14	110.85	103.00
27	Z2	341	ASN	CA-C-N	-7.14	112.93	122.85
27	Z2	341	ASN	C-N-CA	-7.14	112.93	122.85
26	Y2	1295	VAL	CB-CA-C	-7.13	100.53	112.16
26	Y1	1362	LEU	N-CA-C	7.13	119.14	111.36
27	Z1	119	GLU	N-CA-C	-7.13	99.24	109.29
27	Z2	447	PHE	N-CA-CB	-7.12	99.22	110.69
29	b2	82	GLY	CA-C-O	-7.12	111.33	121.52
17	Q1	236	SER	N-CA-C	-7.11	103.46	111.07
27	Z1	7	LEU	CA-C-N	7.11	135.12	121.54
27	Z1	7	LEU	C-N-CA	7.11	135.12	121.54
27	Z2	522	GLU	CB-CA-C	-7.11	96.60	110.10
27	Z2	47	ASN	N-CA-CB	-7.11	98.48	110.49
27	Z1	50	THR	CB-CA-C	7.10	124.31	111.03
27	Z1	339	VAL	CA-C-O	-7.10	112.95	121.04
27	Z1	281	VAL	CA-C-O	7.10	128.82	121.23
29	b1	67	SER	CA-C-O	-7.09	113.04	120.70
29	b2	11	VAL	N-CA-C	-7.09	98.22	108.36
17	Q1	1040	LEU	CB-CA-C	-7.09	99.74	110.88
29	b2	89	PHE	CA-C-N	7.09	134.57	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b2	89	PHE	C-N-CA	7.09	134.57	122.37
29	b2	77	VAL	N-CA-C	7.09	124.09	109.34
27	Z1	237	LEU	N-CA-C	7.09	120.09	109.25
17	Q2	840	PRO	N-CA-C	7.08	127.06	112.47
27	Z2	187	PHE	CA-C-N	7.08	131.44	120.75
27	Z2	187	PHE	C-N-CA	7.08	131.44	120.75
29	b2	71	HIS	N-CA-C	7.08	120.55	110.14
27	Z2	272	ILE	N-CA-C	7.08	117.84	107.37
27	Z2	50	THR	CB-CA-C	7.07	124.25	111.03
17	Q1	89	TYR	CA-C-N	-7.07	111.51	122.68
17	Q1	89	TYR	C-N-CA	-7.07	111.51	122.68
27	Z1	187	PHE	CA-C-N	7.07	131.43	120.75
27	Z1	187	PHE	C-N-CA	7.07	131.43	120.75
27	Z2	446	THR	CA-C-N	-7.06	112.69	122.93
27	Z2	446	THR	C-N-CA	-7.06	112.69	122.93
27	Z2	198	ASN	N-CA-CB	-7.06	98.52	111.37
27	Z2	182	ILE	N-CA-C	7.06	124.02	109.34
25	X1	669	LEU	CA-C-O	7.03	128.81	121.07
29	b2	86	PHE	CA-C-N	-7.03	112.25	122.44
29	b2	86	PHE	C-N-CA	-7.03	112.25	122.44
17	Q2	89	TYR	CA-C-N	-7.03	111.58	122.68
17	Q2	89	TYR	C-N-CA	-7.03	111.58	122.68
27	Z1	290	PHE	CA-C-O	7.02	126.85	119.69
17	Q1	840	PRO	N-CA-C	7.02	126.93	112.47
26	Y1	1404	GLU	CB-CA-C	-7.02	98.92	110.85
27	Z1	35	ILE	N-CA-CB	-7.01	99.95	111.44
25	X1	727	SER	CA-C-O	-7.01	108.89	120.80
27	Z1	182	ILE	N-CA-C	7.00	123.91	109.34
25	X1	683	ALA	CB-CA-C	7.00	121.88	110.88
27	Z1	272	ILE	N-CA-C	7.00	117.73	107.37
27	Z1	72	ILE	N-CA-CB	-7.00	98.84	111.92
29	b1	14	SER	CA-C-O	-7.00	113.78	121.33
26	Y2	1455	ASN	CB-CA-C	-6.99	96.50	110.42
27	Z2	73	SER	N-CA-C	6.99	121.22	109.76
27	Z1	198	ASN	N-CA-CB	-6.99	98.66	111.37
25	X2	777	ASN	CA-C-O	-6.98	110.53	120.51
27	Z1	29	SER	CB-CA-C	-6.98	97.94	110.36
27	Z1	446	THR	CA-C-N	-6.98	112.81	122.93
27	Z1	446	THR	C-N-CA	-6.98	112.81	122.93
27	Z1	73	SER	N-CA-C	6.97	121.20	109.76
27	Z2	29	SER	CB-CA-C	-6.97	97.95	110.36
27	Z2	35	ILE	N-CA-CB	-6.97	100.01	111.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	72	ILE	N-CA-CB	-6.97	98.89	111.92
27	Z1	336	SER	CA-C-O	6.97	129.11	120.54
27	Z2	212	LEU	CA-C-N	6.97	128.55	119.84
27	Z2	212	LEU	C-N-CA	6.97	128.55	119.84
27	Z2	290	PHE	CA-C-O	6.97	126.80	119.69
27	Z1	212	LEU	CA-C-N	6.96	128.54	119.84
27	Z1	212	LEU	C-N-CA	6.96	128.54	119.84
25	X2	683	ALA	CB-CA-C	6.96	121.81	110.88
27	Z2	341	ASN	N-CA-C	-6.96	101.89	111.28
26	Y1	1333	ASP	CB-CA-C	6.96	124.26	110.42
26	Y2	1404	GLU	CB-CA-C	-6.96	99.03	110.85
17	Q1	967	GLY	N-CA-C	-6.94	105.64	115.43
27	Z2	214	SER	CA-C-N	-6.94	112.08	122.70
27	Z2	214	SER	C-N-CA	-6.94	112.08	122.70
27	Z1	434	GLN	CA-C-O	6.94	128.38	120.54
26	Y1	1321	MET	CB-CA-C	-6.94	96.92	110.10
17	Q2	642	PHE	CA-CB-CG	-6.93	106.87	113.80
28	a1	1100	GLY	N-CA-C	-6.93	105.66	115.30
27	Z2	225	LEU	CB-CA-C	6.93	121.69	110.95
28	a2	1100	GLY	N-CA-C	-6.93	105.67	115.30
27	Z1	207	ALA	CA-C-O	-6.92	113.21	121.66
26	Y1	1321	MET	N-CA-CB	-6.92	98.73	110.50
26	Y2	1120	SER	N-CA-CB	-6.91	98.49	111.00
17	Q1	642	PHE	CA-CB-CG	-6.90	106.90	113.80
17	Q2	649	PHE	CA-CB-CG	-6.90	106.90	113.80
22	U2	146	ARG	N-CA-C	-6.90	106.06	114.75
29	b1	18	ASP	N-CA-CB	6.90	121.02	109.78
29	b2	81	ILE	N-CA-CB	-6.90	103.16	110.82
27	Z1	89	PHE	CA-C-O	6.90	128.59	120.66
17	Q2	1009	LEU	CA-C-N	6.89	130.08	120.29
17	Q2	1009	LEU	C-N-CA	6.89	130.08	120.29
27	Z1	214	SER	CA-C-N	-6.89	112.15	122.70
27	Z1	214	SER	C-N-CA	-6.89	112.15	122.70
22	U1	146	ARG	N-CA-C	-6.89	106.06	114.75
27	Z2	300	THR	N-CA-C	6.89	123.19	114.31
27	Z2	225	LEU	CA-C-O	6.89	127.99	120.90
22	U1	314	LEU	N-CA-C	-6.88	104.69	113.23
27	Z2	207	ALA	CA-C-O	-6.88	113.26	121.66
29	b1	12	LYS	CA-C-O	6.88	128.13	119.61
27	Z2	309	ASN	N-CA-C	6.87	125.44	110.80
17	Q1	649	PHE	CA-CB-CG	-6.87	106.93	113.80
27	Z2	80	LEU	CB-CA-C	-6.87	99.56	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	89	PHE	CA-C-O	6.87	128.56	120.66
17	Q2	967	GLY	N-CA-C	-6.86	105.76	115.43
27	Z2	211	PHE	CA-C-N	6.86	147.59	121.95
27	Z2	211	PHE	C-N-CA	6.86	147.59	121.95
29	b2	90	LYS	CA-C-N	6.85	134.63	121.54
29	b2	90	LYS	C-N-CA	6.85	134.63	121.54
27	Z1	211	PHE	CA-C-N	6.85	147.58	121.95
27	Z1	211	PHE	C-N-CA	6.85	147.58	121.95
27	Z2	336	SER	CA-C-O	6.84	128.96	120.54
29	b1	91	THR	CA-C-N	-6.84	109.39	121.70
29	b1	91	THR	C-N-CA	-6.84	109.39	121.70
27	Z1	347	SER	CA-C-N	6.84	131.79	121.40
27	Z1	347	SER	C-N-CA	6.84	131.79	121.40
27	Z2	406	ALA	CB-CA-C	6.83	124.02	110.42
22	U2	314	LEU	N-CA-C	-6.83	104.76	113.23
18	R1	474	ASN	N-CA-C	-6.82	104.43	112.89
27	Z1	192	LEU	N-CA-C	6.82	120.86	112.54
27	Z1	225	LEU	CB-CA-C	6.82	121.53	110.95
29	b1	34	LYS	N-CA-CB	6.82	121.90	111.06
27	Z1	98	SER	CB-CA-C	6.81	123.98	110.42
27	Z1	309	ASN	N-CA-C	6.81	125.31	110.80
27	Z1	341	ASN	N-CA-C	-6.81	101.84	111.24
27	Z1	80	LEU	CB-CA-C	-6.81	99.66	110.14
27	Z1	91	MET	CA-C-O	-6.81	112.43	120.60
27	Z1	300	THR	N-CA-C	6.80	123.08	114.31
27	Z2	304	THR	N-CA-C	6.80	119.60	108.52
27	Z2	400	SER	CB-CA-C	6.80	123.95	110.42
17	Q1	1009	LEU	CA-C-N	6.79	129.94	120.29
17	Q1	1009	LEU	C-N-CA	6.79	129.94	120.29
29	b2	14	SER	CA-C-O	-6.79	114.18	121.45
29	b2	29	LYS	CB-CA-C	6.79	122.06	110.79
23	V1	167	GLY	N-CA-C	-6.79	97.09	113.18
27	Z1	402	LEU	N-CA-C	6.79	121.02	112.87
27	Z2	54	TYR	N-CA-CB	6.78	121.48	110.42
27	Z1	28	SER	N-CA-C	6.78	119.52	108.26
23	V2	167	GLY	N-CA-C	-6.78	97.12	113.18
29	b1	65	PHE	CB-CA-C	-6.77	96.94	110.42
27	Z2	347	SER	CA-C-N	6.77	131.69	121.40
27	Z2	347	SER	C-N-CA	6.77	131.69	121.40
27	Z2	713	GLN	CG-CD-NE2	6.77	126.55	116.40
26	Y2	1299	VAL	CA-C-O	6.77	129.03	121.18
27	Z2	98	SER	CB-CA-C	6.77	123.89	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	R2	690	PHE	CA-CB-CG	-6.76	107.04	113.80
29	b1	52	LYS	CA-C-N	-6.76	113.20	123.07
29	b1	52	LYS	C-N-CA	-6.76	113.20	123.07
27	Z1	400	SER	CB-CA-C	6.76	123.87	110.42
17	Q1	385	THR	CA-C-O	-6.76	111.31	119.49
27	Z1	406	ALA	CB-CA-C	6.75	123.86	110.42
17	Q2	267	VAL	CA-C-N	6.75	131.90	120.29
17	Q2	267	VAL	C-N-CA	6.75	131.90	120.29
27	Z1	225	LEU	CA-C-O	6.75	127.85	120.90
18	R1	442	LEU	N-CA-C	-6.75	103.92	111.28
27	Z2	680	TRP	N-CA-C	-6.75	103.07	112.45
27	Z2	237	LEU	CA-C-N	-6.74	110.81	121.87
27	Z2	237	LEU	C-N-CA	-6.74	110.81	121.87
27	Z1	237	LEU	CA-C-N	-6.74	110.82	121.87
27	Z1	237	LEU	C-N-CA	-6.74	110.82	121.87
29	b1	89	PHE	N-CA-CB	-6.74	99.96	111.21
27	Z1	54	TYR	N-CA-CB	6.74	121.40	110.42
27	Z2	434	GLN	CA-C-O	6.74	128.15	120.54
27	Z1	332	GLU	CA-C-O	6.74	128.37	120.69
17	Q2	385	THR	CA-C-O	-6.73	111.34	119.49
27	Z2	171	ASN	CB-CA-C	-6.73	102.52	111.74
26	Y2	1274	ASN	N-CA-C	-6.73	103.87	111.07
27	Z1	171	ASN	CB-CA-C	-6.72	102.53	111.74
27	Z1	39	GLN	N-CA-C	6.72	118.79	108.30
27	Z2	192	LEU	N-CA-C	6.72	120.74	112.54
29	b2	35	TYR	N-CA-CB	6.71	124.01	111.52
27	Z1	713	GLN	CG-CD-NE2	6.71	126.47	116.40
27	Z2	91	MET	CA-C-O	-6.71	112.55	120.60
17	Q2	378	PHE	CA-CB-CG	-6.71	107.09	113.80
29	b1	83	PRO	CB-CA-C	-6.70	100.50	111.56
26	Y1	1299	VAL	CA-C-O	6.70	128.96	121.18
27	Z2	315	VAL	CA-C-N	-6.70	110.54	122.74
27	Z2	315	VAL	C-N-CA	-6.70	110.54	122.74
17	Q1	267	VAL	CA-C-N	6.70	131.81	120.29
17	Q1	267	VAL	C-N-CA	6.70	131.81	120.29
18	R1	382	LYS	CA-C-N	6.70	128.21	119.84
18	R1	382	LYS	C-N-CA	6.70	128.21	119.84
27	Z2	89	PHE	CB-CA-C	-6.69	96.10	109.35
27	Z1	89	PHE	CB-CA-C	-6.69	96.10	109.35
17	Q2	90	ILE	N-CA-C	6.69	119.98	108.95
26	Y1	1266	ALA	CB-CA-C	-6.69	100.47	110.50
27	Z2	678	ASN	CA-C-N	6.69	133.31	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	678	ASN	C-N-CA	6.69	133.31	122.14
27	Z1	315	VAL	CA-C-N	-6.68	110.58	122.74
27	Z1	315	VAL	C-N-CA	-6.68	110.58	122.74
27	Z2	43	ILE	N-CA-CB	6.68	118.62	111.00
26	Y1	1126	LEU	N-CA-CB	-6.68	99.14	110.50
27	Z1	680	TRP	N-CA-C	-6.68	103.17	112.45
27	Z2	154	PHE	N-CA-C	-6.68	98.09	109.24
27	Z2	39	GLN	N-CA-C	6.67	118.71	108.30
17	Q1	1066	PHE	CA-CB-CG	-6.67	107.13	113.80
23	V2	400	GLY	N-CA-C	6.67	124.08	114.67
23	V2	608	PRO	N-CA-CB	6.67	110.67	103.33
27	Z1	315	VAL	CA-C-O	-6.66	111.90	120.89
27	Z1	43	ILE	N-CA-CB	6.66	118.59	111.00
25	X2	637	LEU	CA-C-N	6.65	134.25	121.54
25	X2	637	LEU	C-N-CA	6.65	134.25	121.54
27	Z2	28	SER	N-CA-C	6.65	119.31	108.26
27	Z1	154	PHE	N-CA-C	-6.65	98.14	109.24
19	R2	623	PHE	CA-CB-CG	-6.65	107.15	113.80
27	Z2	313	GLU	CA-C-N	6.65	131.94	123.10
27	Z2	313	GLU	C-N-CA	6.65	131.94	123.10
27	Z1	55	HIS	CB-CA-C	-6.64	99.40	110.29
27	Z2	62	HIS	N-CA-C	6.63	121.66	113.50
19	R2	382	LYS	CA-C-N	6.63	128.13	119.84
19	R2	382	LYS	C-N-CA	6.63	128.13	119.84
17	Q1	90	ILE	N-CA-C	6.63	119.89	108.95
24	W2	818	PRO	N-CA-CB	6.63	110.29	103.00
27	Z1	167	ASN	CB-CA-C	-6.63	102.17	112.12
27	Z1	304	THR	N-CA-C	6.63	119.33	108.52
29	b2	84	LEU	N-CA-C	6.62	120.08	110.28
17	Q1	977	ASN	CA-CB-CG	-6.62	105.98	112.60
26	Y1	1274	ASN	N-CA-C	-6.62	103.99	111.07
23	V1	608	PRO	N-CA-CB	6.62	110.61	103.33
17	Q2	1066	PHE	CA-CB-CG	-6.62	107.19	113.80
27	Z2	402	LEU	N-CA-C	6.62	120.81	112.87
29	b1	76	PHE	CA-C-N	6.62	133.88	121.97
29	b1	76	PHE	C-N-CA	6.62	133.88	121.97
27	Z1	55	HIS	ND1-CG-CD2	6.61	112.71	106.10
27	Z2	315	VAL	CA-C-O	-6.61	111.96	120.89
27	Z2	316	CYS	CA-C-N	-6.61	112.80	122.58
27	Z2	316	CYS	C-N-CA	-6.61	112.80	122.58
29	b1	53	TYR	N-CA-CB	-6.61	100.20	110.65
17	Q1	378	PHE	CA-CB-CG	-6.61	107.19	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	332	GLU	CA-C-O	6.61	128.22	120.69
27	Z2	314	ILE	CA-C-N	6.60	132.96	122.33
27	Z2	314	ILE	C-N-CA	6.60	132.96	122.33
27	Z1	111	ILE	CA-C-N	-6.60	110.33	121.94
27	Z1	111	ILE	C-N-CA	-6.60	110.33	121.94
23	V1	400	GLY	N-CA-C	6.59	123.96	114.67
27	Z2	55	HIS	CB-CA-C	-6.59	99.48	110.29
27	Z2	111	ILE	CA-C-N	-6.59	110.34	121.94
27	Z2	111	ILE	C-N-CA	-6.59	110.34	121.94
27	Z2	669	THR	CB-CA-C	-6.59	94.60	109.10
26	Y2	1370	THR	N-CA-C	-6.59	104.27	112.90
27	Z1	314	ILE	CA-C-N	6.59	132.94	122.33
27	Z1	314	ILE	C-N-CA	6.59	132.94	122.33
27	Z2	55	HIS	ND1-CG-CD2	6.59	112.69	106.10
27	Z1	52	SER	CB-CA-C	-6.58	100.53	111.13
27	Z1	115	SER	CA-C-O	-6.58	113.42	121.06
27	Z2	266	ARG	CA-C-O	6.58	127.47	119.38
18	R1	623	PHE	CA-CB-CG	-6.58	107.22	113.80
25	X1	637	LEU	CA-C-O	6.57	131.97	120.80
27	Z1	266	ARG	CA-C-O	6.57	127.47	119.38
27	Z2	167	ASN	CB-CA-C	-6.57	102.26	112.12
17	Q2	977	ASN	CA-CB-CG	-6.57	106.03	112.60
27	Z2	124	LYS	CB-CA-C	-6.57	97.37	109.46
27	Z1	313	GLU	CA-C-N	6.57	131.83	123.10
27	Z1	313	GLU	C-N-CA	6.57	131.83	123.10
27	Z2	185	LEU	CA-C-O	6.57	128.62	120.54
27	Z2	451	SER	CA-C-N	-6.56	109.89	121.70
27	Z2	451	SER	C-N-CA	-6.56	109.89	121.70
27	Z2	119	GLU	CA-C-O	6.55	129.92	120.16
17	Q2	395	PHE	CA-CB-CG	-6.55	107.25	113.80
27	Z1	62	HIS	N-CA-C	6.55	121.55	113.50
27	Z1	219	ASN	CB-CA-C	6.55	120.55	109.75
27	Z1	315	VAL	N-CA-C	6.54	116.66	107.37
18	R1	675	ALA	N-CA-C	-6.54	105.25	113.23
27	Z1	373	LEU	N-CA-C	-6.54	99.39	109.52
18	R1	690	PHE	CA-CB-CG	-6.53	107.27	113.80
25	X2	648	LEU	CA-C-O	6.53	128.25	121.07
27	Z2	24	ARG	CB-CA-C	-6.53	97.43	110.42
27	Z2	219	ASN	CB-CA-C	6.53	120.52	109.75
27	Z2	315	VAL	N-CA-C	6.52	116.63	107.37
24	W1	818	PRO	N-CA-CB	6.52	110.17	103.00
25	X1	648	LEU	CA-C-O	6.52	128.24	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	316	CYS	CA-C-N	-6.52	112.93	122.58
27	Z1	316	CYS	C-N-CA	-6.52	112.93	122.58
29	b1	19	LYS	CB-CA-C	6.52	121.00	110.96
27	Z1	170	ASN	N-CA-C	6.51	120.68	110.32
27	Z2	52	SER	CB-CA-C	-6.51	100.64	111.13
27	Z2	28	SER	CB-CA-C	-6.51	100.12	110.14
27	Z2	115	SER	CA-C-O	-6.50	113.53	121.06
27	Z2	373	LEU	N-CA-C	-6.49	99.45	109.52
27	Z1	355	LYS	CA-C-O	6.49	129.63	121.58
17	Q2	275	ILE	CA-C-N	6.49	133.09	121.66
17	Q2	275	ILE	C-N-CA	6.49	133.09	121.66
29	b2	19	LYS	CA-C-O	6.49	127.38	120.70
27	Z1	185	LEU	CA-C-O	6.48	128.51	120.54
27	Z2	445	LEU	N-CA-C	-6.48	98.34	108.90
17	Q1	275	ILE	CA-C-N	6.47	133.05	121.66
17	Q1	275	ILE	C-N-CA	6.47	133.05	121.66
17	Q1	832	TYR	N-CA-C	6.47	118.02	110.97
26	Y1	1370	THR	N-CA-C	-6.47	104.42	112.90
27	Z1	445	LEU	N-CA-C	-6.47	98.36	108.90
27	Z2	42	ILE	CA-C-N	6.47	130.46	122.37
27	Z2	42	ILE	C-N-CA	6.47	130.46	122.37
23	V2	453	ASP	N-CA-C	6.47	118.04	108.60
27	Z1	28	SER	CB-CA-C	-6.46	100.19	110.14
27	Z1	51	ASP	CB-CA-C	-6.46	98.46	109.51
26	Y1	1268	ILE	CA-C-O	-6.45	113.66	120.57
27	Z2	355	LYS	CA-C-O	6.45	129.58	121.58
17	Q1	563	PHE	CA-CB-CG	-6.45	107.35	113.80
19	R2	675	ALA	N-CA-C	-6.45	105.36	113.23
27	Z2	170	ASN	N-CA-C	6.45	120.58	110.32
26	Y2	1276	ILE	CB-CA-C	-6.45	103.81	111.94
27	Z2	51	ASP	CB-CA-C	-6.44	98.50	109.51
27	Z1	423	ILE	N-CA-C	-6.44	94.98	108.88
26	Y2	1237	THR	N-CA-C	6.43	118.29	111.28
26	Y2	1434	PHE	CA-C-O	6.43	127.57	120.63
27	Z1	157	LEU	CA-C-N	-6.42	110.63	121.94
27	Z1	157	LEU	C-N-CA	-6.42	110.63	121.94
28	a1	976	LEU	N-CA-C	-6.42	104.70	112.54
26	Y1	1276	ILE	CB-CA-C	-6.42	103.85	111.94
26	Y1	1237	THR	N-CA-C	6.42	118.27	111.28
17	Q1	472	MET	N-CA-C	6.41	118.07	111.14
27	Z2	423	ILE	N-CA-C	-6.41	95.03	108.88
27	Z2	327	LEU	N-CA-C	-6.41	99.33	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	a2	976	LEU	N-CA-C	-6.41	104.72	112.54
27	Z2	298	THR	N-CA-CB	-6.40	99.69	110.83
17	Q1	575	PHE	CA-CB-CG	-6.40	107.40	113.80
17	Q2	575	PHE	CA-CB-CG	-6.40	107.40	113.80
26	Y2	1347	GLN	N-CA-CB	6.39	120.20	110.42
29	b2	88	VAL	CA-C-N	-6.39	111.95	122.11
29	b2	88	VAL	C-N-CA	-6.39	111.95	122.11
25	X2	791	ILE	CB-CA-C	-6.39	97.91	111.32
17	Q1	1016	PHE	CA-CB-CG	-6.38	107.42	113.80
27	Z1	291	PRO	CA-C-N	6.38	127.02	120.00
27	Z1	291	PRO	C-N-CA	6.38	127.02	120.00
27	Z1	366	LEU	N-CA-C	-6.38	94.83	107.91
17	Q2	563	PHE	CA-CB-CG	-6.38	107.42	113.80
27	Z1	111	ILE	CA-C-O	6.38	127.58	120.95
27	Z1	327	LEU	N-CA-C	-6.37	99.38	109.07
26	Y2	1275	ASN	CA-CB-CG	-6.37	106.23	112.60
27	Z2	111	ILE	CA-C-O	6.37	127.58	120.95
27	Z1	298	THR	N-CA-CB	-6.37	99.75	110.83
27	Z2	80	LEU	N-CA-CB	6.37	121.15	110.77
25	X1	791	ILE	CB-CA-C	-6.36	97.96	111.32
29	b2	75	HIS	ND1-CG-CD2	6.36	112.46	106.10
17	Q1	395	PHE	CA-CB-CG	-6.36	107.44	113.80
27	Z2	366	LEU	N-CA-C	-6.36	94.87	107.91
26	Y1	1434	PHE	CA-C-O	6.36	127.50	120.63
27	Z1	123	PRO	CA-C-N	-6.36	109.40	121.54
27	Z1	123	PRO	C-N-CA	-6.36	109.40	121.54
27	Z2	159	SER	CB-CA-C	-6.36	98.57	110.01
26	Y1	1275	ASN	CA-CB-CG	-6.35	106.25	112.60
29	b2	76	PHE	CA-C-N	6.35	133.40	121.97
29	b2	76	PHE	C-N-CA	6.35	133.40	121.97
17	Q1	355	SER	N-CA-C	-6.35	100.29	109.31
29	b2	56	THR	CA-C-N	6.34	130.86	122.42
29	b2	56	THR	C-N-CA	6.34	130.86	122.42
26	Y1	1347	GLN	N-CA-CB	6.34	120.12	110.42
26	Y2	1455	ASN	N-CA-CB	-6.34	99.78	110.49
26	Y1	1407	SER	CB-CA-C	-6.33	97.25	110.17
27	Z2	291	PRO	CA-C-N	6.33	126.97	120.00
27	Z2	291	PRO	C-N-CA	6.33	126.97	120.00
26	Y1	1372	LYS	CA-C-O	-6.33	110.04	120.80
27	Z2	357	GLN	CB-CA-C	6.33	123.02	110.42
17	Q1	681	ILE	N-CA-C	-6.33	104.33	110.72
26	Y1	1269	LEU	N-CA-C	6.32	120.45	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1411	LEU	N-CA-C	-6.32	97.34	110.80
26	Y2	1269	LEU	N-CA-C	6.32	120.45	112.87
26	Y2	1268	ILE	CA-C-O	-6.32	113.81	120.57
22	U2	291	ASN	N-CA-C	-6.32	103.61	113.02
20	S2	319	LEU	N-CA-C	-6.31	104.09	110.97
27	Z1	83	PHE	N-CA-C	6.31	119.00	109.41
17	Q2	1016	PHE	CA-CB-CG	-6.30	107.50	113.80
29	b2	89	PHE	N-CA-CB	-6.30	100.68	111.21
17	Q1	622	ASN	CA-CB-CG	-6.30	106.30	112.60
17	Q2	355	SER	N-CA-C	-6.30	100.36	109.31
20	S2	307	ALA	N-CA-C	-6.29	104.34	111.14
27	Z2	83	PHE	N-CA-C	6.29	118.98	109.41
17	Q2	472	MET	N-CA-C	6.29	118.01	111.03
25	X1	727	SER	N-CA-CB	-6.29	99.81	110.50
26	Y2	1407	SER	CB-CA-C	-6.29	97.33	110.17
29	b2	8	THR	CA-C-N	6.29	126.32	119.90
29	b2	8	THR	C-N-CA	6.29	126.32	119.90
27	Z2	74	SER	CB-CA-C	-6.29	97.91	110.42
29	b2	53	TYR	N-CA-CB	-6.29	100.86	110.92
17	Q2	832	TYR	N-CA-C	6.28	117.82	110.97
23	V1	461	MET	N-CA-C	-6.28	105.44	113.23
27	Z1	42	ILE	CA-C-N	6.28	130.22	122.37
27	Z1	42	ILE	C-N-CA	6.28	130.22	122.37
27	Z1	357	GLN	CB-CA-C	6.27	122.90	110.42
25	X2	800	HIS	CA-CB-CG	-6.27	107.53	113.80
27	Z1	192	LEU	CA-C-N	-6.27	113.54	122.94
27	Z1	192	LEU	C-N-CA	-6.27	113.54	122.94
29	b1	11	VAL	CA-C-O	6.27	127.12	120.48
27	Z1	51	ASP	N-CA-C	6.26	120.28	110.32
29	b1	83	PRO	CA-C-N	6.26	131.02	122.19
29	b1	83	PRO	C-N-CA	6.26	131.02	122.19
23	V2	461	MET	N-CA-C	-6.26	105.47	113.23
20	S1	516	ILE	N-CA-C	6.25	117.75	110.62
27	Z2	51	ASP	N-CA-C	6.25	120.26	110.32
27	Z2	381	ILE	CA-C-N	-6.25	112.01	122.64
27	Z2	381	ILE	C-N-CA	-6.25	112.01	122.64
22	U1	291	ASN	N-CA-C	-6.25	103.71	113.02
27	Z1	80	LEU	N-CA-CB	6.25	120.96	110.77
27	Z2	192	LEU	CA-C-N	-6.25	113.57	122.94
27	Z2	192	LEU	C-N-CA	-6.25	113.57	122.94
27	Z1	74	SER	CB-CA-C	-6.24	98.00	110.42
27	Z1	381	ILE	CA-C-N	-6.24	112.03	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	381	ILE	C-N-CA	-6.24	112.03	122.64
17	Q2	655	PHE	CA-CB-CG	-6.24	107.56	113.80
29	b1	36	GLN	CB-CA-C	6.24	122.84	110.42
20	S1	307	ALA	N-CA-C	-6.24	104.40	111.14
27	Z1	160	GLN	CG-CD-NE2	6.24	125.75	116.40
27	Z1	419	THR	N-CA-C	-6.24	101.25	110.48
17	Q1	655	PHE	CA-CB-CG	-6.23	107.57	113.80
27	Z1	409	LYS	CA-C-N	-6.23	112.37	122.34
27	Z1	409	LYS	C-N-CA	-6.23	112.37	122.34
26	Y2	1347	GLN	N-CA-C	-6.23	105.34	113.12
26	Y1	1212	ARG	CA-C-O	6.22	127.92	121.07
18	R1	662	PHE	CA-CB-CG	-6.22	107.58	113.80
29	b2	9	PRO	CB-CA-C	6.22	119.46	111.56
17	Q1	984	PHE	CA-CB-CG	-6.22	107.58	113.80
17	Q2	681	ILE	N-CA-C	-6.22	104.44	110.72
17	Q1	733	GLY	N-CA-C	-6.21	104.58	112.54
17	Q2	622	ASN	CA-CB-CG	-6.21	106.39	112.60
27	Z2	37	PHE	CA-C-O	6.21	128.62	120.11
27	Z2	324	LEU	N-CA-CB	-6.21	99.75	111.00
19	R2	662	PHE	CA-CB-CG	-6.21	107.59	113.80
20	S1	319	LEU	N-CA-C	-6.21	104.21	110.97
27	Z2	409	LYS	CA-C-N	-6.21	112.41	122.34
27	Z2	409	LYS	C-N-CA	-6.21	112.41	122.34
27	Z2	160	GLN	CG-CD-NE2	6.20	125.71	116.40
27	Z2	284	PRO	N-CA-C	-6.20	99.69	112.47
27	Z2	359	GLU	CA-C-O	-6.20	113.38	120.58
27	Z2	435	SER	N-CA-C	-6.19	99.56	109.96
29	b1	82	GLY	CA-C-O	-6.19	112.66	121.52
27	Z1	147	GLU	N-CA-C	-6.19	104.45	111.07
27	Z1	291	PRO	N-CA-CB	6.19	109.07	103.19
29	b2	88	VAL	CA-C-O	-6.19	113.42	120.66
27	Z2	419	THR	N-CA-C	-6.19	101.32	110.48
27	Z2	281	VAL	CA-C-N	6.19	131.66	121.39
27	Z2	281	VAL	C-N-CA	6.19	131.66	121.39
27	Z1	284	PRO	N-CA-C	-6.18	99.73	112.47
27	Z2	147	GLU	N-CA-C	-6.18	104.45	111.07
27	Z1	324	LEU	N-CA-CB	-6.18	99.81	111.00
27	Z1	362	SER	N-CA-C	6.18	123.95	110.80
26	Y1	1229	MET	CB-CA-C	-6.17	97.66	109.95
29	b2	10	ILE	CA-C-N	6.17	130.71	122.93
29	b2	10	ILE	C-N-CA	6.17	130.71	122.93
26	Y2	1229	MET	CB-CA-C	-6.17	97.67	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1347	GLN	N-CA-C	-6.17	105.41	113.12
27	Z2	291	PRO	N-CA-CB	6.17	109.05	103.19
26	Y2	1278	CYS	CB-CA-C	-6.17	97.59	110.17
17	Q2	754	ASN	CA-CB-CG	-6.17	106.43	112.60
27	Z1	413	LYS	N-CA-CB	6.17	119.81	109.94
27	Z2	362	SER	N-CA-C	6.17	123.94	110.80
27	Z2	413	LYS	N-CA-CB	6.16	119.79	109.94
17	Q2	545	TYR	CA-C-N	6.15	133.51	122.13
17	Q2	545	TYR	C-N-CA	6.15	133.51	122.13
27	Z2	291	PRO	CA-N-CD	-6.15	103.39	112.00
27	Z1	435	SER	N-CA-C	-6.15	99.63	109.96
25	X1	800	HIS	CA-CB-CG	-6.15	107.65	113.80
17	Q2	984	PHE	CA-CB-CG	-6.15	107.65	113.80
26	Y1	1278	CYS	CB-CA-C	-6.15	97.63	110.17
17	Q1	754	ASN	CA-CB-CG	-6.14	106.46	112.60
20	S2	516	ILE	N-CA-C	6.14	117.62	110.62
17	Q2	733	GLY	N-CA-C	-6.14	104.68	112.54
17	Q1	545	TYR	CA-C-N	6.14	133.48	122.13
17	Q1	545	TYR	C-N-CA	6.14	133.48	122.13
27	Z1	291	PRO	CA-N-CD	-6.14	103.41	112.00
25	X1	818	ILE	CB-CA-C	-6.13	103.86	112.14
17	Q1	1017	ILE	CB-CA-C	-6.13	107.85	114.35
27	Z2	383	GLN	CB-CA-C	-6.13	100.26	110.19
29	b1	65	PHE	N-CA-CB	6.13	120.85	110.49
27	Z2	54	TYR	CB-CA-C	-6.13	100.27	110.19
27	Z2	140	SER	N-CA-C	6.12	123.84	110.80
27	Z1	37	PHE	CA-C-O	6.12	128.49	120.11
27	Z1	346	ASN	N-CA-C	-6.12	102.18	110.68
29	b1	91	THR	CB-CA-C	6.12	121.53	109.66
27	Z1	281	VAL	CA-C-N	6.11	131.54	121.39
27	Z1	281	VAL	C-N-CA	6.11	131.54	121.39
27	Z2	169	PRO	CA-C-N	6.11	132.52	122.07
27	Z2	169	PRO	C-N-CA	6.11	132.52	122.07
27	Z1	140	SER	N-CA-C	6.11	123.81	110.80
27	Z2	215	VAL	CA-C-O	6.11	126.30	120.25
27	Z1	659	LYS	N-CA-C	6.11	117.94	111.28
27	Z2	8	SER	N-CA-CB	-6.11	104.25	114.27
17	Q1	835	PHE	CA-CB-CG	-6.10	107.70	113.80
27	Z2	180	ASN	CA-C-O	6.10	127.92	121.33
27	Z2	346	ASN	N-CA-C	-6.10	102.20	110.68
29	b1	54	GLY	N-CA-C	6.10	127.63	113.18
27	Z1	54	TYR	CB-CA-C	-6.09	100.32	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	359	GLU	CA-C-O	-6.09	113.51	120.58
27	Z2	139	ASP	CA-C-N	6.09	133.18	121.54
27	Z2	139	ASP	C-N-CA	6.09	133.18	121.54
17	Q2	835	PHE	CA-CB-CG	-6.09	107.71	113.80
25	X2	777	ASN	N-CA-C	-6.09	97.83	110.80
27	Z2	659	LYS	N-CA-C	6.09	117.92	111.28
26	Y1	1412	GLU	CA-C-O	-6.09	110.45	120.80
27	Z1	173	PHE	N-CA-CB	-6.09	100.89	110.69
27	Z2	173	PHE	N-CA-CB	-6.08	100.89	110.69
20	S2	399	SER	N-CA-C	-6.08	102.34	110.55
25	X2	818	ILE	CB-CA-C	-6.08	103.93	112.14
27	Z1	383	GLN	CB-CA-C	-6.08	100.35	110.19
27	Z1	176	ASP	N-CA-C	6.07	123.74	110.80
19	R2	683	PHE	CA-CB-CG	-6.07	107.73	113.80
27	Z1	289	PRO	CA-C-N	6.07	134.72	122.70
27	Z1	289	PRO	C-N-CA	6.07	134.72	122.70
17	Q2	1017	ILE	CB-CA-C	-6.07	107.91	114.35
23	V2	166	ASP	N-CA-C	6.07	118.35	108.76
27	Z1	169	PRO	CA-C-N	6.07	132.45	122.07
27	Z1	169	PRO	C-N-CA	6.07	132.45	122.07
27	Z2	289	PRO	CA-C-N	6.07	134.72	122.70
27	Z2	289	PRO	C-N-CA	6.07	134.72	122.70
25	X1	793	LEU	CB-CA-C	6.07	121.17	110.85
27	Z2	117	ASP	CB-CA-C	6.06	123.11	110.32
17	Q1	1020	ARG	CB-CA-C	-6.06	101.36	110.88
23	V1	453	ASP	N-CA-C	6.06	118.07	108.79
27	Z1	215	VAL	CA-C-O	6.06	126.25	120.25
17	Q2	1020	ARG	CB-CA-C	-6.06	101.36	110.88
17	Q1	838	GLU	N-CA-C	-6.05	104.68	111.28
17	Q2	745	ILE	CB-CA-C	-6.05	104.22	111.97
29	b1	19	LYS	CA-C-O	6.05	127.35	121.00
20	S1	399	SER	N-CA-C	-6.05	102.39	110.55
27	Z2	197	LEU	CB-CA-C	6.04	120.64	110.79
25	X2	795	LYS	CA-C-O	6.04	127.17	120.82
27	Z1	139	ASP	CA-C-N	6.04	133.08	121.54
27	Z1	139	ASP	C-N-CA	6.04	133.08	121.54
27	Z2	686	MET	CA-C-N	6.04	128.29	120.44
27	Z2	686	MET	C-N-CA	6.04	128.29	120.44
27	Z2	176	ASP	N-CA-C	6.03	123.65	110.80
25	X2	793	LEU	CB-CA-C	6.03	121.10	110.85
27	Z1	117	ASP	CB-CA-C	6.03	123.04	110.32
27	Z2	339	VAL	CB-CA-C	6.03	120.42	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q2	179	ASN	CA-CB-CG	-6.02	106.58	112.60
27	Z1	180	ASN	CA-C-O	6.02	127.83	121.33
27	Z2	180	ASN	N-CA-CB	6.02	121.72	111.66
29	b1	53	TYR	CA-C-O	6.02	126.72	120.40
18	R1	683	PHE	CA-CB-CG	-6.02	107.78	113.80
21	T2	63	HIS	CA-C-N	6.01	125.69	119.56
21	T2	63	HIS	C-N-CA	6.01	125.69	119.56
27	Z1	180	ASN	N-CA-CB	6.01	121.70	111.66
20	S2	369	GLY	N-CA-C	6.01	120.08	111.12
26	Y2	1362	LEU	N-CA-CB	-6.01	101.27	110.16
27	Z1	686	MET	CA-C-N	6.00	128.25	120.44
27	Z1	686	MET	C-N-CA	6.00	128.25	120.44
17	Q2	838	GLU	N-CA-C	-6.00	104.74	111.28
17	Q1	179	ASN	CA-CB-CG	-6.00	106.60	112.60
17	Q2	1027	ASN	CA-CB-CG	-5.99	106.61	112.60
27	Z1	339	VAL	CB-CA-C	5.99	120.26	111.33
20	S1	369	GLY	N-CA-C	5.99	120.04	111.12
23	V1	166	ASP	N-CA-C	5.99	118.22	108.76
27	Z1	36	VAL	CB-CA-C	5.99	119.42	110.98
27	Z1	197	LEU	CB-CA-C	5.99	120.55	110.79
19	R2	632	LYS	N-CA-C	-5.99	103.54	111.02
27	Z2	166	LEU	N-CA-C	5.98	123.55	110.80
17	Q1	1027	ASN	CA-CB-CG	-5.98	106.62	112.60
27	Z1	381	ILE	N-CA-C	5.98	121.78	109.34
27	Z2	30	GLN	CA-C-N	-5.98	113.57	122.36
27	Z2	30	GLN	C-N-CA	-5.98	113.57	122.36
25	X2	819	ASN	CB-CA-C	5.98	123.30	110.21
27	Z2	150	THR	CA-C-O	5.97	126.89	120.38
27	Z2	168	LYS	CB-CA-C	5.97	119.26	109.46
27	Z1	704	VAL	N-CA-CB	5.97	117.14	110.51
27	Z2	381	ILE	N-CA-C	5.97	121.76	109.34
27	Z2	327	LEU	CA-C-O	5.97	127.77	121.33
27	Z1	327	LEU	CA-C-O	5.96	127.77	121.33
29	b2	75	HIS	CB-CA-C	-5.96	98.08	109.95
27	Z1	265	SER	N-CA-C	5.96	118.57	111.71
26	Y1	1362	LEU	N-CA-CB	-5.96	101.34	110.16
27	Z1	166	LEU	N-CA-C	5.96	123.49	110.80
27	Z1	107	ASP	CB-CA-C	-5.95	98.10	109.95
26	Y2	1315	GLU	CB-CA-C	5.95	121.15	109.72
25	X2	712	ASP	CA-C-N	5.95	128.18	120.44
25	X2	712	ASP	C-N-CA	5.95	128.18	120.44
27	Z1	416	ASP	N-CA-C	-5.95	99.54	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q1	913	LYS	N-CA-C	-5.95	103.15	110.65
27	Z2	36	VAL	CB-CA-C	5.95	119.37	110.98
17	Q1	745	ILE	CB-CA-C	-5.94	104.36	111.97
25	X1	705	ASP	CA-C-N	-5.94	112.31	120.28
25	X1	705	ASP	C-N-CA	-5.94	112.31	120.28
25	X1	819	ASN	CB-CA-C	5.94	123.23	110.21
26	Y1	1315	GLU	CB-CA-C	5.94	121.13	109.72
17	Q1	834	THR	N-CA-C	5.94	117.56	111.14
27	Z2	53	LEU	N-CA-C	-5.94	98.15	110.80
17	Q2	206	GLU	N-CA-CB	5.94	120.60	110.50
18	R1	632	LYS	N-CA-C	-5.94	103.60	111.02
27	Z1	342	TYR	N-CA-CB	-5.93	100.60	110.39
27	Z2	107	ASP	CB-CA-C	-5.93	98.14	109.95
27	Z2	128	LYS	N-CA-CB	-5.93	101.53	110.73
25	X1	817	GLN	CA-C-N	5.93	128.59	120.46
25	X1	817	GLN	C-N-CA	5.93	128.59	120.46
27	Z2	704	VAL	N-CA-CB	5.93	117.09	110.51
21	T1	63	HIS	CA-C-N	5.92	125.60	119.56
21	T1	63	HIS	C-N-CA	5.92	125.60	119.56
29	b1	52	LYS	CA-C-O	5.92	127.73	120.56
27	Z1	128	LYS	N-CA-CB	-5.92	101.55	110.73
17	Q2	493	PHE	CA-CB-CG	-5.92	107.88	113.80
27	Z1	53	LEU	N-CA-C	-5.92	98.20	110.80
29	b1	89	PHE	N-CA-C	-5.92	100.58	108.74
17	Q1	493	PHE	CA-CB-CG	-5.92	107.89	113.80
17	Q2	913	LYS	N-CA-C	-5.92	103.20	110.65
26	Y1	1211	LEU	CA-C-O	5.91	130.85	120.80
27	Z2	342	TYR	N-CA-CB	-5.91	100.64	110.39
17	Q1	206	GLU	N-CA-CB	5.91	120.54	110.50
27	Z2	27	PHE	N-CA-C	-5.91	100.37	109.52
25	X2	817	GLN	CA-C-N	5.90	128.54	120.46
25	X2	817	GLN	C-N-CA	5.90	128.54	120.46
27	Z2	315	VAL	N-CA-CB	5.89	118.27	111.90
25	X1	712	ASP	CA-C-N	5.89	128.10	120.44
25	X1	712	ASP	C-N-CA	5.89	128.10	120.44
27	Z1	339	VAL	N-CA-C	5.89	116.67	109.30
27	Z2	26	ILE	CB-CA-C	-5.89	100.28	110.65
25	X2	648	LEU	CB-CA-C	5.89	120.28	110.92
27	Z1	168	LYS	CB-CA-C	5.89	119.11	109.46
29	b1	88	VAL	CA-C-O	-5.89	113.77	120.66
17	Q2	834	THR	N-CA-C	5.88	117.49	111.14
17	Q1	868	HIS	N-CA-C	-5.88	104.87	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	X1	795	LYS	CA-C-O	5.88	126.99	120.82
25	X1	639	ASP	CB-CA-C	5.88	120.22	110.81
27	Z1	150	THR	CA-C-O	5.88	126.79	120.38
27	Z1	78	ASP	N-CA-C	-5.88	105.77	113.12
27	Z1	15	ALA	CB-CA-C	-5.87	98.73	110.42
17	Q2	942	ASN	CA-CB-CG	-5.87	106.73	112.60
29	b2	61	VAL	CA-C-N	-5.87	115.78	122.42
29	b2	61	VAL	C-N-CA	-5.87	115.78	122.42
27	Z2	110	GLN	CA-C-N	-5.86	112.43	120.46
27	Z2	110	GLN	C-N-CA	-5.86	112.43	120.46
29	b1	7	SER	CB-CA-C	5.86	121.24	110.10
27	Z2	37	PHE	CA-CB-CG	5.86	119.66	113.80
17	Q2	868	HIS	N-CA-C	-5.86	104.90	111.28
25	X1	648	LEU	CB-CA-C	5.85	120.22	110.92
27	Z1	262	ASN	N-CA-C	5.85	117.46	111.14
27	Z2	262	ASN	N-CA-C	5.85	117.46	111.14
29	b2	72	GLU	N-CA-CB	-5.85	100.51	110.16
27	Z2	265	SER	N-CA-C	5.85	118.43	111.71
17	Q2	384	ASN	CA-CB-CG	-5.84	106.75	112.60
27	Z1	304	THR	CA-C-N	-5.84	113.23	122.64
27	Z1	304	THR	C-N-CA	-5.84	113.23	122.64
17	Q2	1036	PHE	CA-CB-CG	-5.83	107.97	113.80
29	b1	90	LYS	CB-CA-C	-5.83	102.10	110.62
27	Z1	284	PRO	N-CD-CG	-5.83	94.45	103.20
27	Z2	369	GLN	CA-C-O	5.83	127.45	120.28
27	Z1	26	ILE	CB-CA-C	-5.83	100.39	110.65
19	R2	705	PHE	CA-CB-CG	-5.83	107.97	113.80
19	R2	555	ILE	CA-C-N	5.82	127.42	120.14
19	R2	555	ILE	C-N-CA	5.82	127.42	120.14
17	Q1	542	ASN	CA-CB-CG	-5.82	106.78	112.60
27	Z2	123	PRO	N-CA-CB	5.82	109.41	103.00
17	Q1	942	ASN	CA-CB-CG	-5.82	106.78	112.60
17	Q1	1036	PHE	CA-CB-CG	-5.82	107.98	113.80
27	Z2	291	PRO	CA-C-O	5.81	128.46	121.48
18	R1	456	GLN	N-CA-C	-5.81	104.94	111.28
27	Z1	315	VAL	N-CA-CB	5.81	118.17	111.90
17	Q1	591	PHE	CA-CB-CG	-5.81	107.99	113.80
27	Z1	27	PHE	N-CA-C	-5.81	100.52	109.52
27	Z1	30	GLN	CA-C-N	-5.81	113.82	122.36
27	Z1	30	GLN	C-N-CA	-5.81	113.82	122.36
27	Z1	110	GLN	CA-C-N	-5.81	112.50	120.46
27	Z1	110	GLN	C-N-CA	-5.81	112.50	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	304	THR	CA-C-N	-5.81	113.29	122.64
27	Z2	304	THR	C-N-CA	-5.81	113.29	122.64
27	Z2	658	LEU	N-CA-C	-5.81	105.29	112.90
17	Q2	542	ASN	CA-CB-CG	-5.80	106.80	112.60
17	Q2	591	PHE	CA-CB-CG	-5.80	108.00	113.80
27	Z2	298	THR	N-CA-C	5.80	118.86	109.40
27	Z2	432	ASN	CB-CA-C	-5.80	103.25	111.95
27	Z1	172	SER	CA-C-O	-5.80	113.99	120.66
29	b2	11	VAL	N-CA-CB	5.80	117.95	110.99
29	b2	86	PHE	CA-CB-CG	5.80	119.60	113.80
26	Y1	1371	VAL	CB-CA-C	5.80	120.80	111.29
25	X2	639	ASP	CB-CA-C	5.79	120.08	110.81
26	Y2	1367	LYS	N-CA-C	-5.79	104.56	111.69
26	Y2	1118	ALA	CA-C-N	5.79	130.11	122.30
26	Y2	1118	ALA	C-N-CA	5.79	130.11	122.30
27	Z1	658	LEU	N-CA-C	-5.79	105.32	112.90
27	Z2	172	SER	CA-C-O	-5.79	114.00	120.66
27	Z2	279	ALA	N-CA-C	5.79	119.05	110.48
26	Y2	1268	ILE	CA-C-N	5.78	131.74	120.99
26	Y2	1268	ILE	C-N-CA	5.78	131.74	120.99
27	Z1	291	PRO	CA-C-O	5.78	128.41	121.48
25	X2	669	LEU	CB-CA-C	5.78	120.11	110.92
17	Q1	384	ASN	CA-CB-CG	-5.78	106.82	112.60
27	Z1	369	GLN	CA-C-O	5.77	127.38	120.28
18	R1	555	ILE	CA-C-N	5.77	127.36	120.14
18	R1	555	ILE	C-N-CA	5.77	127.36	120.14
17	Q2	601	ASN	N-CA-C	-5.77	103.31	110.41
25	X1	669	LEU	CB-CA-C	5.77	120.09	110.92
26	Y2	1335	SER	CB-CA-C	5.77	120.37	110.79
29	b2	89	PHE	N-CA-C	-5.77	100.78	108.74
27	Z2	78	ASP	N-CA-C	-5.77	105.91	113.12
27	Z1	410	PHE	N-CA-CB	-5.77	101.96	110.49
27	Z1	568	CYS	CB-CA-C	-5.76	101.06	110.85
27	Z1	37	PHE	CA-CB-CG	5.76	119.56	113.80
27	Z2	612	ILE	CA-C-O	-5.76	111.01	120.80
27	Z2	119	GLU	CB-CA-C	-5.76	101.73	110.83
29	b1	35	TYR	N-CA-C	-5.76	101.40	109.69
26	Y1	1335	SER	CB-CA-C	5.76	120.47	110.68
27	Z2	261	GLU	CA-C-O	5.76	127.40	121.07
29	b1	72	GLU	N-CA-C	-5.76	102.39	110.50
27	Z1	398	ASN	CB-CA-C	5.75	119.85	110.24
17	Q1	711	ASN	CA-CB-CG	-5.75	106.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	438	ALA	CA-C-O	5.75	126.51	120.36
25	X2	790	ASN	N-CA-C	5.75	117.23	110.97
27	Z1	171	ASN	CA-C-N	-5.75	113.42	122.73
27	Z1	171	ASN	C-N-CA	-5.75	113.42	122.73
27	Z2	284	PRO	N-CD-CG	-5.75	94.58	103.20
26	Y1	1268	ILE	CA-C-N	5.74	131.67	120.99
26	Y1	1268	ILE	C-N-CA	5.74	131.67	120.99
27	Z1	261	GLU	CA-C-O	5.74	127.39	121.07
27	Z2	374	TYR	N-CA-CB	5.74	119.78	110.42
27	Z1	200	THR	N-CA-C	-5.74	105.02	111.28
27	Z2	417	ILE	N-CA-CB	5.74	121.91	111.98
17	Q2	711	ASN	CA-CB-CG	-5.74	106.86	112.60
27	Z2	398	ASN	CB-CA-C	5.74	119.82	110.24
17	Q1	601	ASN	N-CA-C	-5.74	103.35	110.41
17	Q2	829	VAL	N-CA-C	-5.73	103.88	111.05
25	X1	790	ASN	N-CA-C	5.73	117.22	110.97
17	Q1	829	VAL	N-CA-C	-5.72	103.89	111.05
18	R1	705	PHE	CA-CB-CG	-5.72	108.08	113.80
27	Z1	298	THR	N-CA-C	5.72	118.73	109.40
26	Y1	1367	LYS	N-CA-C	-5.72	104.65	111.69
27	Z1	279	ALA	N-CA-C	5.72	118.95	110.48
27	Z2	286	THR	N-CA-C	-5.72	99.97	109.46
29	b2	65	PHE	N-CA-CB	5.72	120.15	110.49
27	Z2	410	PHE	N-CA-CB	-5.71	102.03	110.49
27	Z2	171	ASN	CA-C-N	-5.71	113.47	122.73
27	Z2	171	ASN	C-N-CA	-5.71	113.47	122.73
17	Q2	668	ASN	CA-CB-CG	-5.71	106.89	112.60
27	Z2	58	ASN	N-CA-C	-5.71	101.95	110.23
27	Z2	200	THR	N-CA-C	-5.71	105.06	111.28
27	Z2	568	CYS	CB-CA-C	-5.71	101.15	110.85
27	Z1	437	LEU	CA-C-O	5.71	126.60	120.38
26	Y2	1341	MET	CB-CA-C	-5.71	97.40	110.18
27	Z1	286	THR	N-CA-C	-5.70	99.99	109.46
27	Z1	432	ASN	CB-CA-C	-5.70	103.40	111.95
20	S1	305	VAL	N-CA-C	5.70	116.43	110.62
27	Z2	438	ALA	CA-C-O	5.70	126.45	120.36
28	a1	1037	LEU	CA-C-N	5.70	125.63	119.76
28	a1	1037	LEU	C-N-CA	5.70	125.63	119.76
27	Z1	189	LYS	CB-CA-C	5.69	121.78	110.17
20	S2	305	VAL	N-CA-C	5.69	116.43	110.62
27	Z1	57	LEU	N-CA-C	5.69	119.68	107.67
27	Z1	374	TYR	N-CA-CB	5.69	119.70	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q1	1099	TYR	CA-CB-CG	-5.69	103.66	113.90
27	Z2	54	TYR	CA-C-O	5.68	126.44	120.36
27	Z1	206	PHE	CA-CB-CG	5.68	119.48	113.80
27	Z2	189	LYS	CB-CA-C	5.68	121.76	110.17
27	Z2	215	VAL	CA-C-N	5.67	130.55	122.72
27	Z2	215	VAL	C-N-CA	5.67	130.55	122.72
17	Q2	1099	TYR	CA-CB-CG	-5.67	103.69	113.90
27	Z1	83	PHE	N-CA-CB	-5.67	102.41	111.43
29	b1	57	TRP	N-CA-C	5.67	118.79	107.62
28	a2	1037	LEU	CA-C-N	5.67	125.60	119.76
28	a2	1037	LEU	C-N-CA	5.67	125.60	119.76
27	Z1	215	VAL	CA-C-N	5.66	130.54	122.72
27	Z1	215	VAL	C-N-CA	5.66	130.54	122.72
27	Z1	290	PHE	CA-C-N	5.66	126.10	119.99
27	Z1	290	PHE	C-N-CA	5.66	126.10	119.99
27	Z2	193	THR	CA-C-N	5.66	130.98	123.05
27	Z2	193	THR	C-N-CA	5.66	130.98	123.05
27	Z1	193	THR	CA-C-N	5.66	130.97	123.05
27	Z1	193	THR	C-N-CA	5.66	130.97	123.05
26	Y1	1341	MET	CB-CA-C	-5.65	97.52	110.18
27	Z2	406	ALA	CA-C-N	-5.65	110.33	121.41
27	Z2	406	ALA	C-N-CA	-5.65	110.33	121.41
27	Z1	58	ASN	N-CA-C	-5.65	102.04	110.23
17	Q1	716	ASN	CA-CB-CG	-5.64	106.96	112.60
27	Z1	159	SER	CB-CA-C	5.64	119.03	109.55
27	Z2	432	ASN	N-CA-C	5.64	118.98	111.30
27	Z1	444	THR	CA-C-N	5.64	130.95	122.99
27	Z1	444	THR	C-N-CA	5.64	130.95	122.99
17	Q2	716	ASN	CA-CB-CG	-5.64	106.96	112.60
29	b1	91	THR	CA-C-O	-5.64	114.86	121.46
27	Z2	210	PRO	CA-C-O	5.64	130.86	120.60
23	V2	95	ILE	CA-C-N	5.64	126.89	119.84
23	V2	95	ILE	C-N-CA	5.64	126.89	119.84
27	Z2	57	LEU	N-CA-C	5.64	119.56	107.67
27	Z2	206	PHE	CA-CB-CG	5.63	119.43	113.80
17	Q1	883	GLY	N-CA-C	-5.63	106.42	115.08
27	Z2	83	PHE	N-CA-CB	-5.62	102.49	111.43
17	Q1	668	ASN	CA-CB-CG	-5.62	106.98	112.60
17	Q1	677	PHE	CA-CB-CG	-5.62	108.19	113.80
17	Q1	779	ASN	N-CA-C	-5.61	105.08	111.14
27	Z1	400	SER	N-CA-CB	5.61	119.97	110.49
27	Z1	54	TYR	CA-C-O	5.61	126.36	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b1	88	VAL	CA-C-N	-5.61	113.19	122.11
29	b1	88	VAL	C-N-CA	-5.61	113.19	122.11
27	Z2	437	LEU	CA-C-O	5.61	126.49	120.38
27	Z2	97	TYR	N-CA-C	-5.61	102.61	110.35
27	Z1	406	ALA	CA-C-N	-5.60	110.43	121.41
27	Z1	406	ALA	C-N-CA	-5.60	110.43	121.41
29	b1	61	VAL	CA-C-N	-5.60	116.09	122.42
29	b1	61	VAL	C-N-CA	-5.60	116.09	122.42
29	b2	7	SER	N-CA-CB	5.60	120.03	110.50
27	Z1	183	THR	CA-C-O	5.60	127.23	121.07
27	Z2	243	VAL	N-CA-C	5.60	120.99	109.34
17	Q2	477	PHE	CA-CB-CG	-5.60	108.20	113.80
18	R1	722	ALA	CA-C-N	-5.60	114.15	123.33
18	R1	722	ALA	C-N-CA	-5.60	114.15	123.33
17	Q1	430	ASN	CA-CB-CG	-5.59	107.00	112.60
19	R2	722	ALA	CA-C-N	-5.59	114.15	123.33
19	R2	722	ALA	C-N-CA	-5.59	114.15	123.33
27	Z1	376	ILE	CB-CA-C	-5.59	105.51	112.45
17	Q2	430	ASN	CA-CB-CG	-5.59	107.01	112.60
27	Z1	375	VAL	CA-C-O	5.59	126.26	120.39
26	Y1	1370	THR	N-CA-CB	-5.59	101.95	110.33
26	Y2	1125	ASP	N-CA-CB	5.59	118.94	110.45
27	Z1	210	PRO	CA-C-O	5.58	130.76	120.60
27	Z1	432	ASN	N-CA-C	5.58	118.89	111.30
17	Q2	779	ASN	N-CA-C	-5.58	105.11	111.14
27	Z1	97	TYR	N-CA-C	-5.58	102.65	110.35
27	Z2	290	PHE	CA-C-N	5.58	126.01	119.99
27	Z2	290	PHE	C-N-CA	5.58	126.01	119.99
27	Z1	135	LYS	CB-CA-C	-5.57	99.33	110.42
27	Z1	172	SER	CA-C-N	-5.57	114.85	122.93
27	Z1	172	SER	C-N-CA	-5.57	114.85	122.93
27	Z2	375	VAL	CA-C-O	5.57	126.24	120.39
27	Z1	85	ASP	CA-C-N	-5.57	113.85	122.49
27	Z1	85	ASP	C-N-CA	-5.57	113.85	122.49
27	Z2	376	ILE	CB-CA-C	-5.57	105.54	112.45
27	Z2	63	LEU	CA-C-N	-5.57	115.20	122.94
27	Z2	63	LEU	C-N-CA	-5.57	115.20	122.94
17	Q2	677	PHE	CA-CB-CG	-5.57	108.23	113.80
18	R1	630	LEU	N-CA-CB	5.57	117.86	109.34
27	Z2	289	PRO	CA-C-O	5.57	127.39	121.32
27	Z2	451	SER	CB-CA-C	5.57	121.50	110.42
27	Z1	246	LYS	CA-C-N	5.57	127.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	246	LYS	C-N-CA	5.57	127.67	120.44
27	Z1	289	PRO	CA-C-O	5.57	127.39	121.32
25	X2	793	LEU	CA-C-N	5.56	127.66	120.70
25	X2	793	LEU	C-N-CA	5.56	127.66	120.70
27	Z2	444	THR	CA-C-N	5.56	130.84	122.99
27	Z2	444	THR	C-N-CA	5.56	130.84	122.99
26	Y1	1275	ASN	CA-C-O	5.56	126.22	119.49
27	Z1	358	ARG	N-CA-CB	-5.56	102.16	110.17
27	Z2	448	GLN	N-CA-CB	-5.56	102.71	111.05
26	Y2	1437	VAL	CB-CA-C	-5.56	104.55	112.22
27	Z1	610	SER	CB-CA-C	-5.56	98.69	110.31
27	Z2	286	THR	CB-CA-C	-5.56	100.69	109.80
27	Z1	112	PHE	N-CA-CB	-5.55	101.08	111.13
27	Z1	348	LEU	CB-CA-C	-5.55	103.83	110.94
28	a2	1063	LYS	N-CA-C	5.55	119.15	112.38
27	Z2	172	SER	CA-C-N	-5.55	114.89	122.93
27	Z2	172	SER	C-N-CA	-5.55	114.89	122.93
27	Z2	218	LEU	N-CA-C	-5.55	99.63	109.06
27	Z1	218	LEU	N-CA-C	-5.54	99.64	109.06
19	R2	726	ASN	CA-CB-CG	-5.54	107.06	112.60
27	Z2	108	ALA	N-CA-C	-5.54	106.47	113.18
27	Z1	286	THR	CB-CA-C	-5.54	100.71	109.80
17	Q2	510	ASN	CA-CB-CG	-5.54	107.06	112.60
27	Z2	88	ILE	N-CA-C	5.54	116.09	107.28
27	Z1	288	ASN	N-CA-CB	-5.54	100.51	110.37
27	Z2	85	ASP	N-CA-C	-5.54	105.25	112.23
26	Y2	1370	THR	N-CA-CB	-5.54	102.03	110.33
27	Z1	350	LEU	CB-CA-C	-5.54	101.89	111.30
17	Q1	503	TYR	N-CA-C	-5.53	105.25	111.28
27	Z2	112	PHE	N-CA-CB	-5.53	101.12	111.13
29	b1	84	LEU	CA-C-O	5.53	126.79	120.54
17	Q2	719	ASN	CA-CB-CG	-5.53	107.07	112.60
27	Z2	135	LYS	CB-CA-C	-5.53	99.42	110.42
27	Z2	348	LEU	CB-CA-C	-5.53	103.86	110.94
27	Z2	358	ARG	N-CA-CB	-5.53	102.21	110.17
27	Z2	442	ASN	OD1-CG-ND2	-5.52	117.08	122.60
25	X1	713	ASN	CA-C-O	-5.52	115.02	120.82
27	Z1	147	GLU	O-C-N	5.52	127.75	122.07
27	Z2	408	LEU	CA-C-O	-5.52	112.62	120.51
17	Q2	985	ASN	CA-CB-CG	-5.51	107.08	112.60
25	X1	793	LEU	CA-C-N	5.51	127.59	120.70
25	X1	793	LEU	C-N-CA	5.51	127.59	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	178	ARG	CA-C-N	5.51	128.10	120.49
27	Z1	178	ARG	C-N-CA	5.51	128.10	120.49
27	Z1	243	VAL	N-CA-C	5.51	120.81	109.34
17	Q1	114	GLN	CB-CA-C	-5.51	100.55	111.91
17	Q2	114	GLN	CB-CA-C	-5.51	100.56	111.91
27	Z2	288	ASN	N-CA-CB	-5.51	100.56	110.37
17	Q1	727	PHE	CA-CB-CG	-5.51	108.29	113.80
17	Q2	503	TYR	N-CA-C	-5.51	105.28	111.28
27	Z2	183	THR	CA-C-O	5.51	127.13	121.07
27	Z1	85	ASP	N-CA-C	-5.50	105.29	112.23
27	Z2	350	LEU	CB-CA-C	-5.50	101.94	111.30
27	Z2	400	SER	N-CA-CB	5.50	119.79	110.49
17	Q1	574	ASN	N-CA-C	-5.50	105.83	112.54
23	V1	95	ILE	CA-C-N	5.50	126.72	119.84
23	V1	95	ILE	C-N-CA	5.50	126.72	119.84
25	X1	800	HIS	CB-CA-C	5.50	119.92	110.79
27	Z2	246	LYS	CA-C-N	5.50	127.59	120.44
27	Z2	246	LYS	C-N-CA	5.50	127.59	120.44
28	a1	1063	LYS	N-CA-C	5.50	119.09	112.38
17	Q1	477	PHE	CA-CB-CG	-5.50	108.30	113.80
17	Q1	758	ILE	CB-CA-C	-5.50	104.93	111.97
17	Q2	787	ASP	CB-CA-C	-5.50	102.25	110.88
27	Z1	88	ILE	N-CA-C	5.50	116.02	107.28
27	Z1	446	THR	CA-C-O	-5.50	113.52	120.28
17	Q2	357	ASN	CA-CB-CG	-5.50	107.10	112.60
26	Y1	1437	VAL	CB-CA-C	-5.50	104.64	112.22
27	Z2	146	LYS	CB-CA-C	5.50	122.59	111.60
27	Z2	446	THR	CA-C-O	-5.50	113.52	120.28
20	S1	176	LEU	CA-C-N	5.50	126.35	119.98
20	S1	176	LEU	C-N-CA	5.50	126.35	119.98
25	X2	701	GLU	CA-C-O	5.50	126.77	121.00
27	Z2	228	ASN	CB-CA-C	5.49	120.19	110.85
29	b1	89	PHE	CA-C-O	5.49	127.18	121.36
25	X2	800	HIS	CB-CA-C	5.49	119.90	110.79
27	Z2	610	SER	CB-CA-C	-5.49	98.83	110.31
17	Q1	510	ASN	CA-CB-CG	-5.49	107.11	112.60
17	Q2	967	GLY	CA-C-N	5.49	127.63	120.28
17	Q2	967	GLY	C-N-CA	5.49	127.63	120.28
26	Y2	1275	ASN	CA-C-O	5.49	126.13	119.49
17	Q2	386	PHE	N-CA-C	5.48	122.48	110.80
19	R2	630	LEU	N-CA-CB	5.48	117.73	109.34
17	Q1	787	ASP	CB-CA-C	-5.48	102.28	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	178	ARG	CA-C-N	5.48	128.05	120.49
27	Z2	178	ARG	C-N-CA	5.48	128.05	120.49
17	Q1	386	PHE	N-CA-C	5.48	122.47	110.80
17	Q1	703	THR	CA-CB-CG2	-5.48	101.19	110.50
27	Z1	108	ALA	N-CA-C	-5.48	106.55	113.18
17	Q2	703	THR	CA-CB-CG2	-5.47	101.19	110.50
17	Q1	985	ASN	CA-CB-CG	-5.47	107.13	112.60
27	Z2	266	ARG	CA-C-N	-5.47	113.14	122.11
27	Z2	266	ARG	C-N-CA	-5.47	113.14	122.11
17	Q2	758	ILE	CB-CA-C	-5.47	104.97	111.97
27	Z1	178	ARG	N-CA-CB	5.47	120.76	111.57
17	Q2	727	PHE	CA-CB-CG	-5.47	108.33	113.80
27	Z1	324	LEU	CA-C-N	5.47	130.23	123.12
27	Z1	324	LEU	C-N-CA	5.47	130.23	123.12
25	X2	713	ASN	CA-C-O	-5.47	115.08	120.82
27	Z1	136	SER	CA-C-N	-5.47	113.60	121.42
27	Z1	136	SER	C-N-CA	-5.47	113.60	121.42
18	R1	726	ASN	CA-CB-CG	-5.46	107.14	112.60
27	Z1	228	ASN	CB-CA-C	5.46	120.14	110.85
27	Z2	85	ASP	CA-C-N	-5.46	114.02	122.49
27	Z2	85	ASP	C-N-CA	-5.46	114.02	122.49
27	Z2	303	ALA	CA-C-N	-5.46	115.40	123.05
27	Z2	303	ALA	C-N-CA	-5.46	115.40	123.05
27	Z1	451	SER	N-CA-C	5.46	122.43	110.80
27	Z2	35	ILE	CB-CA-C	-5.46	102.09	110.50
27	Z1	63	LEU	CA-C-N	-5.46	115.35	122.94
27	Z1	63	LEU	C-N-CA	-5.46	115.35	122.94
17	Q2	1109	ILE	CB-CA-C	-5.46	104.77	112.14
17	Q2	658	PHE	CA-CB-CG	-5.45	108.35	113.80
27	Z2	147	GLU	O-C-N	5.45	127.69	122.07
27	Z1	266	ARG	CA-C-N	-5.45	113.17	122.11
27	Z1	266	ARG	C-N-CA	-5.45	113.17	122.11
17	Q1	409	ASP	CA-CB-CG	-5.45	107.15	112.60
19	R2	168	VAL	N-CA-C	5.44	116.08	110.36
29	b1	82	GLY	N-CA-C	5.44	123.44	112.34
27	Z1	140	SER	CA-C-N	-5.44	115.50	123.00
27	Z1	140	SER	C-N-CA	-5.44	115.50	123.00
27	Z2	178	ARG	N-CA-CB	5.44	120.70	111.57
27	Z1	408	LEU	CA-C-O	-5.43	112.74	120.51
17	Q1	719	ASN	CA-CB-CG	-5.43	107.17	112.60
17	Q2	574	ASN	N-CA-C	-5.43	105.91	112.54
17	Q1	574	ASN	CA-CB-CG	-5.43	107.17	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q2	124	PHE	N-CA-C	-5.43	103.37	110.53
27	Z2	325	ILE	CA-C-O	5.43	126.34	120.53
17	Q1	124	PHE	N-CA-C	-5.42	103.37	110.53
27	Z2	136	SER	CA-C-N	-5.42	113.67	121.42
27	Z2	136	SER	C-N-CA	-5.42	113.67	121.42
17	Q2	547	PRO	N-CA-C	5.42	117.31	110.70
17	Q1	1075	ASP	CA-CB-CG	-5.42	107.18	112.60
27	Z1	35	ILE	CB-CA-C	-5.42	102.16	110.50
27	Z2	140	SER	CA-C-N	-5.42	115.53	123.00
27	Z2	140	SER	C-N-CA	-5.42	115.53	123.00
17	Q2	1126	ASP	CA-CB-CG	-5.41	107.19	112.60
20	S2	176	LEU	CA-C-N	5.41	126.25	119.98
20	S2	176	LEU	C-N-CA	5.41	126.25	119.98
25	X2	818	ILE	N-CA-C	5.41	116.14	110.62
27	Z2	87	GLU	CA-C-N	5.41	130.38	123.13
27	Z2	87	GLU	C-N-CA	5.41	130.38	123.13
26	Y2	1117	TYR	CA-C-O	5.41	130.00	120.80
27	Z1	176	ASP	N-CA-CB	5.41	119.63	110.49
27	Z1	442	ASN	OD1-CG-ND2	-5.41	117.19	122.60
29	b2	76	PHE	CA-C-O	5.41	127.66	121.28
17	Q1	665	PHE	CA-CB-CG	-5.41	108.39	113.80
26	Y2	1227	VAL	N-CA-CB	5.40	116.87	110.55
17	Q1	1126	ASP	CA-CB-CG	-5.40	107.20	112.60
22	U2	298	SER	N-CA-C	5.40	117.39	109.24
27	Z1	303	ALA	CA-C-N	-5.40	115.49	123.05
27	Z1	303	ALA	C-N-CA	-5.40	115.49	123.05
29	b2	8	THR	N-CA-CB	5.40	123.35	111.25
17	Q1	699	MET	N-CA-C	-5.40	105.40	111.28
22	U1	298	SER	N-CA-C	5.40	117.39	109.24
27	Z1	146	LYS	CB-CA-C	5.40	122.39	111.60
17	Q2	574	ASN	CA-CB-CG	-5.39	107.21	112.60
17	Q1	810	ASP	CA-CB-CG	-5.39	107.21	112.60
26	Y1	1365	ILE	CB-CA-C	-5.39	105.15	111.94
17	Q2	709	PHE	CA-CB-CG	-5.38	108.42	113.80
23	V2	320	SER	N-CA-C	5.38	115.34	108.24
25	X1	818	ILE	N-CA-C	5.38	116.11	110.62
27	Z1	120	GLU	CB-CA-C	5.38	120.32	110.10
25	X2	698	GLN	CA-C-O	5.38	126.47	120.82
27	Z1	369	GLN	CA-C-N	5.38	130.14	122.72
27	Z1	369	GLN	C-N-CA	5.38	130.14	122.72
29	b2	87	LEU	N-CA-C	-5.38	98.50	107.80
17	Q1	101	ASP	N-CA-C	-5.37	101.62	109.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	311	GLN	CA-C-O	5.37	124.37	119.00
29	b1	90	LYS	N-CA-C	5.37	117.10	107.80
17	Q1	547	PRO	N-CA-C	5.37	117.25	110.70
17	Q1	658	PHE	CA-CB-CG	-5.37	108.43	113.80
17	Q2	409	ASP	CA-CB-CG	-5.37	107.23	112.60
27	Z1	347	SER	CB-CA-C	-5.37	100.04	109.71
17	Q1	917	LEU	N-CA-C	-5.37	105.51	111.36
17	Q2	774	PHE	CA-CB-CG	-5.37	108.43	113.80
17	Q2	660	SER	N-CA-C	-5.37	105.99	112.54
20	S2	516	ILE	CB-CA-C	-5.37	105.01	112.04
25	X1	701	GLU	CA-C-O	5.37	126.64	121.00
27	Z2	324	LEU	CA-C-N	5.37	130.09	123.12
27	Z2	324	LEU	C-N-CA	5.37	130.09	123.12
26	Y1	1227	VAL	N-CA-CB	5.36	116.82	110.55
17	Q2	917	LEU	N-CA-C	-5.36	105.52	111.36
17	Q2	385	THR	N-CA-C	5.36	118.92	112.38
17	Q2	101	ASP	N-CA-C	-5.36	101.65	109.63
27	Z2	176	ASP	N-CA-CB	5.36	119.54	110.49
26	Y1	1371	VAL	N-CA-C	5.35	120.48	109.34
27	Z2	339	VAL	N-CA-C	5.35	116.49	109.58
17	Q1	660	SER	N-CA-C	-5.35	106.01	112.54
27	Z1	274	LYS	CB-CA-C	-5.35	99.30	109.95
27	Z1	325	ILE	CA-C-O	5.35	126.25	120.53
27	Z2	274	LYS	CB-CA-C	-5.35	99.31	109.95
17	Q2	810	ASP	CA-CB-CG	-5.35	107.25	112.60
17	Q1	967	GLY	CA-C-N	5.34	127.44	120.28
17	Q1	967	GLY	C-N-CA	5.34	127.44	120.28
17	Q2	845	PHE	CA-CB-CG	-5.34	108.46	113.80
23	V1	320	SER	N-CA-C	5.34	115.29	108.24
17	Q1	311	ASN	CA-C-N	5.34	129.47	120.29
17	Q1	311	ASN	C-N-CA	5.34	129.47	120.29
26	Y1	1237	THR	CB-CA-C	-5.34	101.93	110.79
27	Z2	158	ASN	N-CA-CB	5.34	118.96	110.84
17	Q2	292	PHE	CA-CB-CG	-5.34	108.46	113.80
26	Y1	1124	THR	CA-C-N	-5.34	114.70	122.65
26	Y1	1124	THR	C-N-CA	-5.34	114.70	122.65
17	Q1	357	ASN	CA-CB-CG	-5.34	107.26	112.60
27	Z1	636	ASN	CA-C-N	-5.34	112.71	120.29
27	Z1	636	ASN	C-N-CA	-5.34	112.71	120.29
29	b2	20	LEU	CA-C-N	5.34	127.38	120.44
29	b2	20	LEU	C-N-CA	5.34	127.38	120.44
17	Q1	772	ASP	CA-CB-CG	-5.33	107.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q1	368	PHE	CA-CB-CG	-5.33	108.47	113.80
18	R1	168	VAL	N-CA-C	5.33	115.96	110.36
27	Z1	37	PHE	N-CA-C	-5.33	98.96	108.13
17	Q2	772	ASP	CA-CB-CG	-5.32	107.28	112.60
26	Y2	1237	THR	CB-CA-C	-5.32	101.96	110.79
17	Q1	1109	ILE	CB-CA-C	-5.32	104.96	112.14
23	V1	516	ASN	N-CA-C	-5.32	105.15	111.69
27	Z2	128	LYS	N-CA-C	5.31	119.73	112.88
18	R1	541	GLY	N-CA-C	-5.31	107.46	115.32
20	S1	516	ILE	CB-CA-C	-5.31	105.08	112.04
17	Q2	311	ASN	CA-C-N	5.31	129.42	120.29
17	Q2	311	ASN	C-N-CA	5.31	129.42	120.29
17	Q1	709	PHE	CA-CB-CG	-5.30	108.50	113.80
17	Q1	845	PHE	CA-CB-CG	-5.30	108.50	113.80
27	Z2	37	PHE	N-CA-C	-5.30	99.01	108.13
26	Y2	1293	GLU	CA-C-N	5.30	127.82	120.29
26	Y2	1293	GLU	C-N-CA	5.30	127.82	120.29
17	Q2	699	MET	N-CA-C	-5.30	105.50	111.28
23	V2	516	ASN	N-CA-C	-5.30	105.17	111.69
17	Q1	774	PHE	CA-CB-CG	-5.30	108.50	113.80
27	Z2	111	ILE	CB-CA-C	5.30	119.29	112.14
26	Y1	1121	GLY	CA-C-N	5.29	130.35	122.99
26	Y1	1121	GLY	C-N-CA	5.29	130.35	122.99
17	Q2	665	PHE	CA-CB-CG	-5.29	108.51	113.80
27	Z2	87	GLU	CB-CA-C	-5.29	101.54	110.43
27	Z2	217	LEU	CA-C-O	-5.29	116.01	122.41
26	Y2	1275	ASN	CA-C-N	-5.29	112.77	121.34
26	Y2	1275	ASN	C-N-CA	-5.29	112.77	121.34
26	Y2	1339	PHE	N-CA-C	5.29	119.22	112.34
17	Q2	1075	ASP	CA-CB-CG	-5.29	107.31	112.60
29	b2	92	ALA	N-CA-CB	5.29	118.33	110.40
25	X1	753	GLU	N-CA-C	5.28	117.95	111.82
27	Z1	111	ILE	CB-CA-C	5.28	119.27	112.14
27	Z2	347	SER	CB-CA-C	-5.28	100.21	109.71
19	R2	236	GLY	N-CA-C	-5.28	103.86	112.83
27	Z1	87	GLU	CA-C-N	5.27	130.19	123.13
27	Z1	87	GLU	C-N-CA	5.27	130.19	123.13
27	Z1	87	GLU	CB-CA-C	-5.27	101.58	110.43
27	Z1	446	THR	CB-CA-C	-5.27	100.43	109.65
27	Z2	580	LYS	CB-CA-C	-5.27	100.40	110.57
23	V1	355	GLU	N-CA-C	-5.27	105.21	111.69
19	R2	541	GLY	N-CA-C	-5.26	107.53	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	b2	46	LYS	CB-CA-C	5.26	119.14	110.88
17	Q1	102	HIS	CA-C-N	5.26	127.59	120.44
17	Q1	102	HIS	C-N-CA	5.26	127.59	120.44
17	Q1	385	THR	N-CA-C	5.26	118.80	112.38
26	Y1	1339	PHE	N-CA-C	5.26	119.18	112.34
17	Q2	368	PHE	CA-CB-CG	-5.26	108.54	113.80
26	Y1	1275	ASN	CA-C-N	-5.26	112.82	121.34
26	Y1	1275	ASN	C-N-CA	-5.26	112.82	121.34
26	Y2	1319	PHE	N-CA-C	5.26	117.09	111.36
28	a2	1067	LYS	CA-C-N	5.26	125.42	119.90
28	a2	1067	LYS	C-N-CA	5.26	125.42	119.90
27	Z2	99	ASN	N-CA-CB	-5.25	101.49	111.00
17	Q1	831	LEU	N-CA-C	5.25	117.09	111.36
25	X1	698	GLN	CA-C-O	5.25	126.33	120.82
27	Z1	128	LYS	N-CA-C	5.25	119.66	112.88
17	Q1	117	THR	CA-C-O	5.25	123.68	119.59
27	Z1	580	LYS	CB-CA-C	-5.25	100.44	110.57
27	Z2	446	THR	CB-CA-C	-5.25	100.47	109.65
17	Q2	831	LEU	N-CA-C	5.24	117.08	111.36
19	R2	645	ASP	CA-CB-CG	-5.24	107.36	112.60
17	Q2	587	LEU	N-CA-C	-5.24	105.68	111.71
27	Z1	217	LEU	CA-C-O	-5.24	116.07	122.41
27	Z2	323	SER	CA-C-O	-5.24	114.72	120.43
18	R1	236	GLY	N-CA-C	-5.24	103.92	112.83
25	X1	774	ASN	CA-C-O	5.24	126.32	120.82
26	Y1	1319	PHE	N-CA-C	5.24	117.07	111.36
17	Q2	662	ASN	CA-CB-CG	-5.24	107.36	112.60
27	Z1	89	PHE	CA-C-N	5.24	129.53	122.93
27	Z1	89	PHE	C-N-CA	5.24	129.53	122.93
27	Z2	55	HIS	CA-CB-CG	5.24	119.04	113.80
27	Z2	369	GLN	CA-C-N	5.24	129.95	122.72
27	Z2	369	GLN	C-N-CA	5.24	129.95	122.72
27	Z2	636	ASN	CA-C-N	-5.24	112.86	120.29
27	Z2	636	ASN	C-N-CA	-5.24	112.86	120.29
29	b1	62	GLY	CA-C-O	-5.23	114.11	120.92
27	Z1	143	VAL	CA-C-O	-5.23	114.92	121.04
17	Q1	292	PHE	CA-CB-CG	-5.23	108.57	113.80
27	Z2	195	TYR	CA-C-O	-5.23	115.10	120.54
18	R1	440	ASP	CA-CB-CG	-5.23	107.37	112.60
27	Z2	710	THR	N-CA-C	-5.23	105.02	111.40
26	Y2	1270	LEU	CA-C-O	5.23	126.29	120.80
27	Z2	438	ALA	CA-C-N	5.22	130.11	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z2	438	ALA	C-N-CA	5.22	130.11	122.85
17	Q1	662	ASN	CA-CB-CG	-5.22	107.38	112.60
17	Q1	952	ASP	CA-CB-CG	-5.22	107.38	112.60
27	Z1	319	PHE	N-CA-CB	-5.22	102.92	110.70
27	Z1	423	ILE	CA-C-N	5.22	125.43	120.31
27	Z1	423	ILE	C-N-CA	5.22	125.43	120.31
27	Z2	373	LEU	CA-C-N	5.22	129.72	122.77
27	Z2	373	LEU	C-N-CA	5.22	129.72	122.77
17	Q1	651	ASN	CA-CB-CG	-5.22	107.38	112.60
27	Z1	90	VAL	N-CA-CB	5.22	117.25	110.99
23	V2	355	GLU	N-CA-C	-5.22	105.27	111.69
27	Z2	440	MET	N-CA-CB	-5.22	101.75	110.83
27	Z2	423	ILE	CA-C-N	5.21	125.42	120.31
27	Z2	423	ILE	C-N-CA	5.21	125.42	120.31
27	Z1	16	SER	CB-CA-C	5.21	120.00	110.10
27	Z1	646	HIS	CB-CA-C	-5.21	100.99	110.63
18	R1	606	LEU	CA-C-N	-5.21	114.63	122.81
18	R1	606	LEU	C-N-CA	-5.21	114.63	122.81
26	Y2	1212	ARG	CA-C-O	5.21	127.96	120.51
29	b2	21	LYS	CB-CA-C	5.21	119.06	110.88
17	Q2	635	VAL	CB-CA-C	-5.21	105.11	112.14
25	X1	713	ASN	CA-C-N	5.21	127.98	120.38
25	X1	713	ASN	C-N-CA	5.21	127.98	120.38
25	X2	774	ASN	CA-C-O	5.21	126.29	120.82
27	Z1	37	PHE	CA-C-N	5.21	129.75	122.93
27	Z1	37	PHE	C-N-CA	5.21	129.75	122.93
27	Z2	311	GLN	CA-C-O	5.21	124.21	119.00
29	b2	61	VAL	CB-CA-C	-5.21	105.02	111.32
17	Q2	651	ASN	CA-CB-CG	-5.20	107.40	112.60
27	Z1	438	ALA	CA-C-N	5.20	130.08	122.85
27	Z1	438	ALA	C-N-CA	5.20	130.08	122.85
26	Y1	1293	GLU	CA-C-N	5.20	127.67	120.29
26	Y1	1293	GLU	C-N-CA	5.20	127.67	120.29
27	Z1	387	MET	CB-CA-C	-5.20	98.83	110.21
27	Z2	646	HIS	CB-CA-C	-5.20	101.01	110.63
27	Z1	350	LEU	N-CA-CB	-5.20	102.61	110.35
27	Z2	139	ASP	N-CA-C	5.20	119.20	112.86
17	Q1	822	ASP	N-CA-CB	5.20	117.50	110.38
23	V1	268	SER	N-CA-C	5.20	119.08	111.34
27	Z1	710	THR	N-CA-C	-5.20	105.06	111.40
17	Q2	117	THR	CA-C-O	5.19	123.64	119.59
19	R2	537	PHE	CA-CB-CG	-5.19	108.61	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	412	SER	CA-C-N	5.19	129.73	121.99
27	Z1	412	SER	C-N-CA	5.19	129.73	121.99
27	Z2	387	MET	CB-CA-C	-5.19	98.84	110.21
27	Z1	99	ASN	N-CA-CB	-5.19	101.61	111.00
22	U1	165	LEU	N-CA-C	-5.19	106.46	112.89
27	Z1	426	LEU	N-CA-CB	-5.19	102.33	110.69
27	Z2	414	LEU	CA-C-N	5.19	130.71	122.62
27	Z2	414	LEU	C-N-CA	5.19	130.71	122.62
17	Q2	636	ILE	N-CA-C	-5.19	104.40	110.05
29	b1	9	PRO	N-CA-CB	5.19	107.68	103.32
27	Z1	85	ASP	CA-C-O	5.18	125.91	119.79
27	Z1	139	ASP	N-CA-C	5.18	119.18	112.86
27	Z1	414	LEU	CA-C-N	5.18	130.70	122.62
27	Z1	414	LEU	C-N-CA	5.18	130.70	122.62
27	Z2	27	PHE	CA-C-O	5.18	127.50	121.44
27	Z2	412	SER	CA-C-N	5.18	129.71	121.99
27	Z2	412	SER	C-N-CA	5.18	129.71	121.99
17	Q1	1055	ASP	CA-CB-CG	-5.18	107.42	112.60
23	V2	268	SER	N-CA-C	5.18	119.06	111.34
26	Y1	1270	LEU	CA-C-O	5.18	126.24	120.80
17	Q2	843	PHE	CA-CB-CG	-5.18	108.62	113.80
28	a1	1067	LYS	CA-C-N	5.18	125.33	119.90
28	a1	1067	LYS	C-N-CA	5.18	125.33	119.90
25	X2	648	LEU	CA-C-N	-5.17	112.94	120.29
25	X2	648	LEU	C-N-CA	-5.17	112.94	120.29
27	Z1	55	HIS	CA-CB-CG	5.17	118.97	113.80
25	X2	713	ASN	CA-C-N	5.17	127.93	120.38
25	X2	713	ASN	C-N-CA	5.17	127.93	120.38
27	Z1	373	LEU	CA-C-N	5.17	129.65	122.77
27	Z1	373	LEU	C-N-CA	5.17	129.65	122.77
27	Z2	143	VAL	CA-C-O	-5.17	114.99	121.04
27	Z2	350	LEU	N-CA-CB	-5.17	102.64	110.35
26	Y2	1364	ASN	CA-C-N	5.17	129.71	121.34
26	Y2	1364	ASN	C-N-CA	5.17	129.71	121.34
27	Z1	323	SER	CA-C-O	-5.17	114.80	120.43
27	Z2	90	VAL	N-CA-CB	5.17	117.19	110.99
17	Q2	952	ASP	CA-CB-CG	-5.17	107.44	112.60
17	Q2	102	HIS	CA-C-N	5.16	127.46	120.44
17	Q2	102	HIS	C-N-CA	5.16	127.46	120.44
19	R2	606	LEU	CA-C-N	-5.16	114.71	122.81
19	R2	606	LEU	C-N-CA	-5.16	114.71	122.81
20	S1	152	ALA	N-CA-C	5.16	116.78	108.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	S2	152	ALA	N-CA-C	5.16	116.78	108.32
17	Q2	822	ASP	N-CA-CB	5.16	117.45	110.38
25	X2	753	GLU	N-CA-C	5.16	117.80	111.82
27	Z2	37	PHE	CA-C-N	5.16	129.69	122.93
27	Z2	37	PHE	C-N-CA	5.16	129.69	122.93
26	Y1	1403	ARG	NE-CZ-NH1	-5.15	116.35	121.50
27	Z1	665	ILE	CA-C-N	5.15	127.14	120.44
27	Z1	665	ILE	C-N-CA	5.15	127.14	120.44
27	Z2	405	LEU	N-CA-C	5.15	119.05	112.87
27	Z2	426	LEU	CB-CA-C	-5.15	100.11	109.38
17	Q1	587	LEU	N-CA-C	-5.15	105.79	111.71
17	Q1	377	ILE	CB-CA-C	-5.15	104.10	111.31
17	Q1	843	PHE	CA-CB-CG	-5.15	108.65	113.80
17	Q2	858	ASN	CA-CB-CG	-5.15	107.45	112.60
29	b2	84	LEU	CA-C-O	5.15	126.93	121.16
17	Q1	396	LYS	CA-C-N	5.14	125.12	120.03
17	Q1	396	LYS	C-N-CA	5.14	125.12	120.03
15	O3	108	VAL	CB-CA-C	-5.14	108.90	114.35
27	Z1	98	SER	CA-C-O	-5.14	113.16	120.51
27	Z1	426	LEU	CB-CA-C	-5.14	100.12	109.38
17	Q2	530	ASP	CA-CB-CG	-5.14	107.46	112.60
27	Z2	177	ALA	CA-C-O	5.14	126.27	120.00
27	Z2	173	PHE	CA-C-O	5.13	126.15	120.71
17	Q1	761	ASN	CB-CA-C	-5.13	102.14	109.84
22	U2	59	VAL	N-CA-C	5.13	116.22	111.81
27	Z1	177	ALA	CA-C-O	5.13	126.26	120.00
27	Z2	85	ASP	CA-C-O	5.13	125.84	119.79
17	Q1	858	ASN	CA-CB-CG	-5.13	107.47	112.60
22	U1	290	SER	N-CA-C	5.13	117.15	110.53
25	X2	747	THR	CA-C-N	5.13	127.11	120.44
25	X2	747	THR	C-N-CA	5.13	127.11	120.44
18	R1	645	ASP	CA-CB-CG	-5.13	107.47	112.60
17	Q2	822	ASP	N-CA-C	-5.12	104.11	110.41
27	Z2	426	LEU	N-CA-CB	-5.12	102.44	110.69
27	Z2	418	ALA	N-CA-CB	5.12	119.15	110.49
25	X1	648	LEU	CA-C-N	-5.12	113.02	120.29
25	X1	648	LEU	C-N-CA	-5.12	113.02	120.29
17	Q2	761	ASN	CB-CA-C	-5.12	102.16	109.84
27	Z1	425	ASN	N-CA-CB	5.12	118.35	110.21
22	U2	165	LEU	N-CA-C	-5.12	106.55	112.89
15	O4	108	VAL	CB-CA-C	-5.11	108.93	114.35
17	Q1	636	ILE	N-CA-C	-5.11	104.48	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Y1	1364	ASN	CA-C-N	5.11	129.62	121.34
26	Y1	1364	ASN	C-N-CA	5.11	129.62	121.34
20	S2	206	ASN	CA-C-N	-5.11	114.78	120.45
20	S2	206	ASN	C-N-CA	-5.11	114.78	120.45
27	Z2	425	ASN	N-CA-CB	5.11	118.33	110.21
20	S1	206	ASN	CA-C-N	-5.10	114.78	120.45
20	S1	206	ASN	C-N-CA	-5.10	114.78	120.45
17	Q2	410	THR	N-CA-C	-5.10	102.36	109.96
26	Y2	1312	ASN	N-CA-C	5.10	116.84	111.28
17	Q1	635	VAL	CB-CA-C	-5.10	105.26	112.14
25	X1	700	ILE	CA-C-N	5.10	127.38	120.65
25	X1	700	ILE	C-N-CA	5.10	127.38	120.65
29	b1	53	TYR	CB-CA-C	-5.09	102.54	110.74
17	Q1	226	GLY	N-CA-C	-5.09	108.25	115.43
27	Z2	118	GLU	CB-CA-C	-5.09	99.78	110.17
27	Z1	129	LYS	CB-CA-C	-5.09	100.29	110.42
17	Q2	557	LEU	N-CA-C	-5.09	105.73	111.28
26	Y2	1403	ARG	NE-CZ-NH1	-5.09	116.41	121.50
27	Z2	158	ASN	N-CA-C	5.09	117.08	108.02
17	Q2	420	PHE	CA-CB-CG	-5.09	108.71	113.80
25	X2	776	PHE	CA-C-O	5.09	126.16	120.82
27	Z2	89	PHE	CA-C-N	5.09	129.34	122.93
27	Z2	89	PHE	C-N-CA	5.09	129.34	122.93
29	b1	90	LYS	N-CA-CB	5.09	118.84	110.90
17	Q1	1041	VAL	CB-CA-C	-5.08	105.46	111.97
18	R1	537	PHE	CA-CB-CG	-5.08	108.72	113.80
27	Z1	173	PHE	CA-C-O	5.08	126.10	120.71
27	Z1	405	LEU	N-CA-C	5.08	118.97	112.87
29	b2	67	SER	N-CA-CB	-5.08	102.12	111.37
27	Z2	83	PHE	CA-CB-CG	5.08	118.88	113.80
15	O2	108	VAL	CB-CA-C	-5.08	108.97	114.35
27	Z2	132	PHE	CA-C-O	-5.08	115.16	120.80
25	X2	700	ILE	CA-C-N	5.08	127.35	120.65
25	X2	700	ILE	C-N-CA	5.08	127.35	120.65
27	Z2	263	TRP	N-CA-C	5.08	121.61	110.80
15	O1	108	VAL	CB-CA-C	-5.07	108.97	114.35
17	Q2	705	LYS	N-CA-C	-5.07	105.75	111.28
22	U2	290	SER	N-CA-C	5.07	117.07	110.53
26	Y1	1312	ASN	N-CA-C	5.07	116.81	111.28
17	Q1	410	THR	N-CA-C	-5.07	102.40	109.96
29	b2	16	ILE	CA-C-O	-5.07	116.67	121.64
17	Q2	1117	ILE	CB-CA-C	-5.07	105.48	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	Z1	263	TRP	N-CA-C	5.07	121.60	110.80
27	Z2	98	SER	CA-C-O	-5.07	113.26	120.51
27	Z2	434	GLN	CA-C-N	5.07	129.59	122.09
27	Z2	434	GLN	C-N-CA	5.07	129.59	122.09
20	S2	328	SER	N-CA-C	-5.07	101.45	109.76
17	Q2	626	ASN	CA-CB-CG	-5.07	107.53	112.60
27	Z2	319	PHE	N-CA-CB	-5.07	103.15	110.70
17	Q2	377	ILE	CB-CA-C	-5.07	104.22	111.31
23	V2	625	ALA	CA-C-N	5.07	124.24	118.97
23	V2	625	ALA	C-N-CA	5.07	124.24	118.97
27	Z1	95	TRP	CA-C-N	-5.07	108.78	122.46
27	Z1	95	TRP	C-N-CA	-5.07	108.78	122.46
27	Z1	118	GLU	CB-CA-C	-5.07	99.83	110.17
27	Z1	306	LEU	CA-C-O	-5.07	114.94	120.36
27	Z2	95	TRP	CA-C-N	-5.07	108.78	122.46
27	Z2	95	TRP	C-N-CA	-5.07	108.78	122.46
20	S1	248	PRO	CA-C-N	-5.06	114.59	122.09
20	S1	248	PRO	C-N-CA	-5.06	114.59	122.09
27	Z2	178	ARG	CA-C-O	5.06	126.70	121.28
17	Q1	705	LYS	N-CA-C	-5.06	105.76	111.28
27	Z1	261	GLU	CA-C-N	-5.06	113.56	120.44
27	Z1	261	GLU	C-N-CA	-5.06	113.56	120.44
27	Z1	418	ALA	CA-C-N	5.06	129.79	121.39
27	Z1	418	ALA	C-N-CA	5.06	129.79	121.39
27	Z2	261	GLU	CA-C-N	-5.06	113.56	120.44
27	Z2	261	GLU	C-N-CA	-5.06	113.56	120.44
27	Z1	112	PHE	CA-C-O	-5.06	114.32	120.54
17	Q2	1055	ASP	CA-CB-CG	-5.05	107.55	112.60
17	Q1	557	LEU	N-CA-C	-5.05	105.77	111.28
23	V2	362	LEU	N-CA-C	5.05	117.90	111.69
26	Y1	1267	GLU	N-CA-C	5.05	117.52	111.71
26	Y1	1410	GLN	CB-CA-C	5.05	120.47	110.17
27	Z1	331	LEU	CB-CA-C	-5.05	100.56	109.70
17	Q2	396	LYS	CA-C-N	5.05	125.03	120.03
17	Q2	396	LYS	C-N-CA	5.05	125.03	120.03
26	Y2	1410	GLN	CB-CA-C	5.05	120.47	110.17
27	Z1	241	THR	CA-C-O	5.05	126.75	120.54
29	b2	84	LEU	CA-C-N	5.05	130.17	122.65
29	b2	84	LEU	C-N-CA	5.05	130.17	122.65
17	Q1	114	GLN	CB-CG-CD	-5.04	104.02	112.60
17	Q1	586	ASP	CA-CB-CG	-5.04	107.56	112.60
27	Z1	654	ASP	N-CA-C	-5.04	105.78	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	S1	328	SER	N-CA-C	-5.04	101.49	109.76
27	Z2	418	ALA	CA-C-N	5.04	129.76	121.39
27	Z2	418	ALA	C-N-CA	5.04	129.76	121.39
17	Q1	822	ASP	N-CA-C	-5.04	104.21	110.41
17	Q1	898	ASP	CA-CB-CG	-5.04	107.56	112.60
20	S2	248	PRO	CA-C-N	-5.04	114.63	122.09
20	S2	248	PRO	C-N-CA	-5.04	114.63	122.09
26	Y2	1268	ILE	CB-CA-C	-5.04	104.36	112.16
27	Z2	129	LYS	CB-CA-C	-5.04	100.40	110.42
17	Q2	114	GLN	CB-CG-CD	-5.03	104.04	112.60
27	Z1	69	PHE	CA-CB-CG	5.03	118.83	113.80
23	V1	625	ALA	CA-C-N	5.03	124.20	118.97
23	V1	625	ALA	C-N-CA	5.03	124.20	118.97
17	Q2	226	GLY	N-CA-C	-5.03	108.34	115.43
23	V1	362	LEU	N-CA-C	5.03	117.88	111.69
23	V1	534	ILE	N-CA-C	-5.03	106.16	110.74
26	Y2	1339	PHE	CB-CA-C	-5.03	98.91	110.18
26	Y1	1268	ILE	CB-CA-C	-5.03	104.37	112.16
27	Z2	313	GLU	CA-C-O	5.02	126.62	120.99
17	Q2	273	GLY	CA-C-N	5.02	125.03	120.21
17	Q2	273	GLY	C-N-CA	5.02	125.03	120.21
17	Q2	420	PHE	N-CA-C	-5.02	102.75	110.58
27	Z2	331	LEU	CB-CA-C	-5.02	100.61	109.70
27	Z1	27	PHE	CA-C-O	5.02	127.31	121.44
27	Z1	434	GLN	CA-C-N	5.02	129.52	122.09
27	Z1	434	GLN	C-N-CA	5.02	129.52	122.09
27	Z2	360	ILE	CB-CA-C	-5.02	104.94	111.81
29	b1	57	TRP	CE2-CD2-CG	-5.02	101.18	107.20
17	Q1	530	ASP	CA-CB-CG	-5.01	107.58	112.60
18	R1	642	ASN	CA-CB-CG	-5.01	107.59	112.60
24	W2	538	GLY	N-CA-C	-5.01	108.40	115.32
29	b1	10	ILE	N-CA-CB	5.01	119.41	111.99
17	Q2	586	ASP	CA-CB-CG	-5.01	107.59	112.60
25	X2	705	ASP	CA-C-O	5.01	126.11	120.00
27	Z1	200	THR	CA-C-N	-5.01	113.66	123.13
27	Z1	200	THR	C-N-CA	-5.01	113.66	123.13
23	V2	534	ILE	N-CA-C	-5.01	106.18	110.74
25	X1	820	SER	N-CA-CB	-5.01	102.74	110.20
17	Q1	626	ASN	CA-CB-CG	-5.01	107.59	112.60
27	Z2	304	THR	N-CA-CB	-5.00	102.69	110.55
17	Q1	1025	ASP	CA-CB-CG	-5.00	107.60	112.60
17	Q2	322	ASP	CA-CB-CG	-5.00	107.60	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q2	1025	ASP	CA-CB-CG	-5.00	107.60	112.60
27	Z1	178	ARG	CA-C-O	5.00	126.63	121.28

All (26) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
25	X1	742	GLN	CA
25	X2	788	ASP	CA
26	Y1	1266	ALA	CA
26	Y1	1333	ASP	CA
26	Y2	1212	ARG	CA
26	Y2	1383	ALA	CA
26	Y2	1430	ASP	CA
27	Z1	15	ALA	CA
27	Z1	98	SER	CA
27	Z1	123	PRO	CA
27	Z1	124	LYS	CA
27	Z1	149	ASP	CA
27	Z1	288	ASN	CA
27	Z1	378	ASP	CA
27	Z1	406	ALA	CA
27	Z1	678	ASN	CA
27	Z2	15	ALA	CA
27	Z2	98	SER	CA
27	Z2	149	ASP	CA
27	Z2	288	ASN	CA
27	Z2	378	ASP	CA
27	Z2	406	ALA	CA
27	Z2	451	SER	CA
27	Z2	523	ASN	CA
27	Z2	611	GLN	CA
29	b2	7	SER	CA

All (122) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A1	891	GLY	Mainchain
1	A1	976	LEU	Peptide
1	A2	891	GLY	Mainchain
1	A2	976	LEU	Peptide
1	A3	891	GLY	Mainchain
1	A3	976	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	A4	891	GLY	Mainchain
1	A4	976	LEU	Peptide
17	Q1	198	LEU	Peptide
17	Q2	198	LEU	Peptide
18	R1	151	GLY	Mainchain
19	R2	151	GLY	Mainchain
20	S1	371	PHE	Peptide
20	S1	392	TYR	Peptide
20	S2	371	PHE	Peptide
20	S2	392	TYR	Peptide
24	W1	190	ASP	Mainchain
24	W1	264	ASP	Sidechain
24	W2	190	ASP	Mainchain
24	W2	264	ASP	Sidechain
25	X1	637	LEU	Peptide,Mainchain
25	X1	726	VAL	Peptide
25	X1	742	GLN	Mainchain
25	X1	777	ASN	Peptide
25	X2	637	LEU	Peptide,Mainchain
25	X2	726	VAL	Peptide,Mainchain
25	X2	742	GLN	Mainchain
25	X2	777	ASN	Peptide,Mainchain
25	X2	788	ASP	Peptide,Mainchain
26	Y1	1117	TYR	Mainchain
26	Y1	1125	ASP	Peptide,Mainchain
26	Y1	1211	LEU	Peptide,Mainchain
26	Y1	1238	PHE	Peptide
26	Y1	1266	ALA	Mainchain
26	Y1	1320	LEU	Peptide,Mainchain
26	Y1	1371	VAL	Peptide
26	Y1	1382	VAL	Peptide,Mainchain
26	Y1	1411	LEU	Peptide
26	Y1	1429	LYS	Peptide,Mainchain
26	Y1	1455	ASN	Peptide
26	Y2	1117	TYR	Peptide,Mainchain
26	Y2	1125	ASP	Peptide,Mainchain
26	Y2	1211	LEU	Mainchain
26	Y2	1266	ALA	Peptide,Mainchain
26	Y2	1320	LEU	Peptide
26	Y2	1332	LYS	Mainchain
26	Y2	1371	VAL	Peptide
26	Y2	1382	VAL	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
26	Y2	1411	LEU	Peptide
26	Y2	1429	LYS	Mainchain
26	Y2	1455	ASN	Peptide
27	Z1	119	GLU	Peptide
27	Z1	123	PRO	Peptide,Mainchain
27	Z1	15	ALA	Peptide,Mainchain
27	Z1	210	PRO	Peptide,Mainchain
27	Z1	23	PRO	Peptide,Mainchain
27	Z1	283	GLY	Peptide,Mainchain
27	Z1	288	ASN	Mainchain
27	Z1	347	SER	Peptide
27	Z1	451	SER	Peptide
27	Z1	522	GLU	Peptide,Mainchain
27	Z1	582	GLU	Peptide,Mainchain
27	Z1	611	GLN	Peptide
27	Z1	640	GLN	Peptide
27	Z1	642	ASN	Peptide,Mainchain
27	Z1	668	GLU	Peptide
27	Z1	7	LEU	Mainchain
27	Z2	119	GLU	Peptide
27	Z2	123	PRO	Peptide,Mainchain
27	Z2	15	ALA	Peptide
27	Z2	210	PRO	Peptide,Mainchain
27	Z2	23	PRO	Mainchain
27	Z2	283	GLY	Peptide,Mainchain
27	Z2	288	ASN	Mainchain
27	Z2	347	SER	Peptide
27	Z2	451	SER	Mainchain
27	Z2	522	GLU	Mainchain
27	Z2	582	GLU	Peptide,Mainchain
27	Z2	611	GLN	Peptide
27	Z2	625	HIS	Mainchain
27	Z2	640	GLN	Peptide
27	Z2	642	ASN	Peptide,Mainchain
27	Z2	668	GLU	Peptide
27	Z2	678	ASN	Peptide,Mainchain
27	Z2	7	LEU	Peptide,Mainchain
29	b1	35	TYR	Mainchain
29	b1	54	GLY	Mainchain
29	b1	7	SER	Peptide,Mainchain
29	b2	54	GLY	Mainchain
29	b2	7	SER	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
29	b2	90	LYS	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	9703	0	9614	516	0
1	A2	9730	0	9635	511	0
1	A3	9730	0	9637	436	0
1	A4	9703	0	9619	332	0
2	B1	111	0	127	2	0
2	B2	111	0	127	2	0
2	B3	111	0	127	2	0
2	B4	111	0	127	2	0
3	C1	138	0	144	0	0
3	C2	138	0	144	0	0
3	C3	138	0	144	0	0
3	C4	138	0	144	0	0
4	D1	5589	0	5542	200	0
4	D2	5589	0	5549	47	0
4	D3	5589	0	5536	363	0
4	D4	5589	0	5548	59	0
5	E1	137	0	130	2	0
5	E2	137	0	130	2	0
5	E3	137	0	130	4	0
5	E4	137	0	130	2	0
6	F1	12779	0	12903	502	0
6	F2	12779	0	12920	195	0
7	G1	438	0	411	127	0
7	G2	438	0	413	86	0
8	H1	94	0	84	0	0
8	H2	94	0	84	0	0
9	I1	12307	0	12324	1372	0
9	I2	12307	0	12316	1863	0
10	J1	504	0	485	94	0
10	J2	504	0	487	51	0
11	K1	73	0	82	10	0
11	K2	73	0	82	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	L1	15	0	11	0	0
12	L2	15	0	11	0	0
13	M1	1372	0	1353	253	0
13	M2	1372	0	1363	29	0
13	M3	1372	0	1341	465	0
13	M4	1372	0	1363	18	0
14	N1	1401	0	1398	117	0
14	N2	1401	0	1397	42	0
14	N3	1401	0	1393	302	0
14	N4	1401	0	1393	21	0
15	O1	1971	0	1943	586	0
15	O2	1971	0	1966	167	0
15	O3	1971	0	1954	670	0
15	O4	1971	0	1966	114	0
16	P1	311	0	334	23	0
16	P2	311	0	334	2	0
16	P3	311	0	323	208	0
16	P4	311	0	334	2	0
17	Q1	8392	0	8304	1863	0
17	Q2	8359	0	8285	1759	0
18	R1	5448	0	5455	628	0
19	R2	5069	0	5067	530	0
20	S1	3805	0	3498	145	0
20	S2	3805	0	3499	121	0
21	T1	2160	0	2096	98	0
21	T2	2160	0	2095	73	0
22	U1	2438	0	2368	395	0
22	U2	2438	0	2378	60	0
23	V1	4535	0	4073	107	0
23	V2	4535	0	4073	107	0
24	W1	6622	0	5897	181	0
24	W2	6622	0	5907	80	0
25	X1	1321	0	1273	709	0
25	X2	1321	0	1271	924	0
26	Y1	1590	0	1630	818	0
26	Y2	1590	0	1622	1133	0
27	Z1	4990	0	4924	2675	0
27	Z2	4990	0	4939	2511	0
28	a1	1165	0	1181	45	0
28	a2	1165	0	1181	45	0
29	b1	691	0	696	290	0
29	b2	691	0	693	275	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	221308	0	217457	17968	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 41.

All (17968) 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)
27:Z1:45:TRP:CZ2	27:Z1:95:TRP:CZ3	1.76	1.74
26:Y1:1236:ASP:HA	26:Y1:1239:PHE:CE2	1.19	1.68
27:Z2:45:TRP:CZ2	27:Z2:95:TRP:CZ3	1.76	1.68
25:X2:815:GLU:CG	26:Y2:1402:LEU:HD21	1.20	1.68
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:CE3	1.81	1.68
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CE2	1.21	1.67
26:Y1:1211:LEU:HD22	26:Y1:1214:ILE:CD1	1.21	1.67
9:I2:1305:LEU:CB	15:O3:264:ILE:HD11	1.24	1.66
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:CE3	1.81	1.66
17:Q1:384:ASN:CB	17:Q1:509:ALA:H	1.04	1.66
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:HE3	0.99	1.66
1:A2:1224:PRO:HG2	1:A1:648:TYR:CZ	1.24	1.66
25:X2:692:LYS:CG	27:Z2:431:TRP:CZ2	1.75	1.65
25:X2:778:LYS:HD3	25:X2:795:LYS:CB	1.18	1.65
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CB	1.07	1.64
27:Z1:227:LEU:HD23	27:Z1:256:VAL:CG1	1.24	1.64
26:Y2:1236:ASP:HA	26:Y2:1239:PHE:CE2	1.15	1.64
9:I1:900:ARG:CB	13:M1:580:LYS:HB2	1.23	1.64
9:I2:1305:LEU:HD22	15:O3:264:ILE:CG1	1.20	1.64
26:Y2:1332:LYS:HA	27:Z1:109:PHE:CZ	1.27	1.64
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:CE	1.24	1.63
27:Z1:137:TYR:CB	27:Z1:269:LYS:HD2	1.20	1.63
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:HE3	0.99	1.63
9:I2:982:GLN:CB	15:O3:179:LEU:HD11	1.26	1.63
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:CE	1.28	1.63
27:Z2:12:ILE:HG23	27:Z2:37:PHE:CE2	1.30	1.62
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CE2	1.21	1.62
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:HB2	1.28	1.62
9:I1:1051:LYS:HG3	14:N1:289:PHE:CZ	1.30	1.62
27:Z1:241:THR:HB	27:Z1:246:LYS:CE	1.26	1.62
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:HG13	1.34	1.61
9:I1:1246:ILE:CG1	15:O1:255:GLY:HA3	1.28	1.61
9:I2:1049:LEU:CB	14:N3:293:LYS:HA	1.20	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:216:LEU:CD1	27:Z2:272:ILE:HD11	1.16	1.61
22:U1:243:PHE:CD2	27:Z1:657:TYR:HA	1.26	1.61
22:U1:340:LYS:HE3	27:Z1:646:HIS:CE1	1.18	1.61
25:X1:815:GLU:HG2	26:Y1:1402:LEU:CD2	1.30	1.61
1:A4:827:ILE:HG21	1:A4:849:SER:CA	1.26	1.61
27:Z1:12:ILE:HG23	27:Z1:37:PHE:CE2	1.30	1.61
27:Z2:137:TYR:CB	27:Z2:269:LYS:HD2	1.20	1.60
27:Z2:69:PHE:CA	27:Z2:84:ASN:HD21	1.06	1.60
29:b2:72:GLU:HG3	29:b2:75:HIS:CE1	1.33	1.60
1:A2:1201:ARG:HA	1:A1:648:TYR:CE1	1.10	1.60
9:I2:1107:SER:CB	13:M3:615:PRO:HG3	1.28	1.60
27:Z2:434:GLN:HG3	27:Z2:580:LYS:CE	1.23	1.60
25:X2:655:PHE:CZ	27:Z2:545:LEU:HB3	1.36	1.60
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:CZ	1.27	1.60
29:b1:25:LEU:HD23	29:b1:79:PHE:CE2	1.30	1.60
9:I2:976:ARG:CZ	14:N3:293:LYS:HG3	1.31	1.59
27:Z1:69:PHE:CA	27:Z1:84:ASN:HD21	1.07	1.59
9:I2:809:HIS:CD2	15:O3:243:LEU:HB2	1.16	1.59
25:X1:655:PHE:CZ	27:Z1:545:LEU:HB3	1.36	1.59
27:Z2:387:MET:HE3	27:Z2:391:SER:CB	1.20	1.59
1:A2:1328:ARG:CD	4:D1:976:ARG:HE	0.95	1.59
9:I2:976:ARG:CA	14:N3:297:ALA:HA	1.11	1.59
9:I2:1103:LEU:CB	13:M3:611:LYS:HE3	1.13	1.59
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CZ	1.75	1.59
9:I2:964:SER:HA	16:P3:149:ARG:CA	1.25	1.59
25:X1:648:LEU:HB3	27:Z2:547:VAL:CG1	1.17	1.59
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:CE	1.28	1.59
1:A1:827:ILE:HG21	1:A1:849:SER:CA	1.26	1.59
9:I1:911:PRO:CG	15:O1:202:LEU:HD12	1.11	1.58
29:b1:25:LEU:CD2	29:b1:79:PHE:CE2	1.82	1.58
9:I2:1305:LEU:HB3	15:O3:264:ILE:CD1	1.24	1.58
1:A2:1221:ILE:HD12	1:A1:600:LYS:CE	1.17	1.58
9:I1:1606:GLU:CG	9:I2:1669:ARG:CZ	1.79	1.58
27:Z1:45:TRP:CZ2	27:Z1:95:TRP:CH2	1.89	1.58
26:Y2:1362:LEU:CG	26:Y2:1387:LYS:HE2	1.12	1.58
9:I2:1099:ARG:C	15:O3:272:SER:HB3	1.26	1.57
17:Q2:891:ILE:HD13	19:R2:715:LEU:CD2	1.19	1.57
18:R1:435:PHE:CD2	18:R1:448:ILE:HD11	1.33	1.57
26:Y1:1211:LEU:CD2	26:Y1:1214:ILE:HD12	1.22	1.57
27:Z2:241:THR:HB	27:Z2:246:LYS:CE	1.27	1.57
1:A3:1223:GLU:HB2	1:A4:648:TYR:CG	1.36	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:679:LEU:HD11	26:Y2:1278:CYS:SG	1.43	1.57
27:Z2:227:LEU:HD23	27:Z2:256:VAL:CG1	1.24	1.57
9:I1:1051:LYS:HB3	14:N1:293:LYS:CE	1.19	1.57
22:U1:289:GLN:CD	25:X1:794:ILE:HG12	1.28	1.57
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CB	1.67	1.57
27:Z1:216:LEU:CD1	27:Z1:272:ILE:HD11	1.16	1.57
9:I1:900:ARG:CG	13:M1:577:LEU:HA	1.30	1.57
17:Q2:891:ILE:CD1	19:R2:715:LEU:HD21	1.22	1.57
25:X1:790:ASN:CA	27:Z1:669:THR:C	1.76	1.57
9:I2:976:ARG:NH2	14:N3:293:LYS:CD	1.67	1.57
9:I2:1107:SER:HB3	13:M3:615:PRO:CG	1.09	1.57
26:Y1:1383:ALA:C	26:Y2:1361:GLU:HA	1.27	1.57
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:CD2	1.67	1.57
9:I2:1103:LEU:HB2	13:M3:611:LYS:CE	1.17	1.56
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:HB2	1.33	1.56
27:Z2:282:GLN:C	27:Z2:282:GLN:CA	1.76	1.56
1:A3:1223:GLU:CG	1:A4:648:TYR:CD2	1.76	1.56
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:CG1	1.04	1.56
6:F1:135:VAL:CG1	9:I1:1336:MET:CG	1.75	1.56
9:I2:982:GLN:CB	15:O3:179:LEU:CD1	1.78	1.56
25:X2:648:LEU:HD11	27:Z2:535:PHE:CE1	1.36	1.56
27:Z1:129:LYS:HE3	27:Z1:185:LEU:CD1	1.11	1.56
27:Z2:45:TRP:CZ2	27:Z2:95:TRP:CH2	1.89	1.56
25:X1:742:GLN:CG	25:X1:743:GLN:HG2	1.17	1.56
25:X2:774:ASN:HB3	25:X2:797:LEU:CD1	1.35	1.56
9:I2:1253:GLY:CA	14:N3:410:MET:H	1.12	1.55
25:X1:648:LEU:HD11	27:Z1:535:PHE:CE1	1.36	1.55
25:X1:679:LEU:HD11	26:Y1:1278:CYS:SG	1.43	1.55
25:X1:795:LYS:CE	27:Z1:666:GLU:HA	1.35	1.55
25:X1:795:LYS:HG3	27:Z1:665:ILE:CG2	1.30	1.55
27:Z1:387:MET:HE3	27:Z1:391:SER:CB	1.20	1.55
27:Z1:403:ASN:H	27:Z2:262:ASN:CG	1.07	1.55
27:Z2:45:TRP:CE2	27:Z2:95:TRP:CZ3	1.95	1.55
9:I2:809:HIS:CD2	15:O3:243:LEU:CB	1.90	1.55
27:Z1:282:GLN:C	27:Z1:282:GLN:CA	1.76	1.55
27:Z2:217:LEU:CD2	27:Z2:269:LYS:HD3	1.08	1.55
9:I2:906:GLY:CA	13:M3:573:ARG:HD2	1.12	1.55
22:U1:299:GLU:CB	27:Z1:652:GLN:HB3	1.30	1.55
25:X1:815:GLU:CG	26:Y1:1402:LEU:HD21	1.20	1.55
22:U1:299:GLU:HB2	27:Z1:652:GLN:CB	1.14	1.55
25:X2:815:GLU:HG2	26:Y2:1402:LEU:CD2	1.30	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:HD11	1.02	1.55
1:A2:1229:VAL:CG2	1:A1:640:LEU:HA	1.26	1.54
9:I2:843:GLU:CD	15:O3:191:ARG:HD2	1.31	1.54
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:HD2	1.05	1.54
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CB	1.67	1.54
27:Z1:93:VAL:C	27:Z1:94:PRO:CD	1.81	1.54
1:A4:521:ASN:CB	4:D3:1019:ARG:HH21	1.13	1.54
9:I1:1051:LYS:CD	14:N1:289:PHE:CE2	1.88	1.54
9:I2:1168:ALA:HB2	15:O3:270:THR:CA	1.34	1.54
27:Z1:45:TRP:CE2	27:Z1:95:TRP:CZ3	1.94	1.54
27:Z2:129:LYS:HE3	27:Z2:185:LEU:CD1	1.11	1.54
9:I1:1051:LYS:HG3	14:N1:289:PHE:CE2	1.43	1.54
9:I2:806:VAL:CG1	15:O3:247:TRP:CB	1.82	1.54
22:U1:289:GLN:CG	25:X1:794:ILE:HA	1.15	1.54
26:Y1:1443:MET:HE3	27:Z1:332:GLU:CD	1.30	1.54
27:Z2:198:ASN:CA	27:Z2:198:ASN:N	1.69	1.54
27:Z2:216:LEU:CG	27:Z2:272:ILE:HD11	1.11	1.54
29:b1:56:THR:C	29:b1:56:THR:CA	1.76	1.54
9:I1:838:GLU:HG2	15:O1:198:ARG:CZ	1.12	1.54
24:W1:400:LYS:HB3	24:W1:720:PHE:CB	1.29	1.54
24:W1:403:ASP:HB2	24:W1:723:PHE:C	1.31	1.54
10:J1:247:ASP:HB3	15:O1:276:GLY:C	1.18	1.54
22:U1:289:GLN:HG3	25:X1:794:ILE:CA	1.36	1.54
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:HD11	1.02	1.54
9:I1:1606:GLU:CG	9:I2:1669:ARG:NH1	1.70	1.53
25:X2:726:VAL:C	25:X2:726:VAL:HG12	1.23	1.53
9:I1:1051:LYS:HZ1	14:N1:290:VAL:CA	1.03	1.53
27:Z1:26:ILE:HB	27:Z1:440:MET:SD	1.48	1.53
27:Z2:227:LEU:CD2	27:Z2:256:VAL:HG12	1.07	1.53
9:I2:982:GLN:CG	15:O3:179:LEU:CD1	1.84	1.53
27:Z1:216:LEU:CG	27:Z1:272:ILE:HD11	1.12	1.53
27:Z2:363:LEU:CD1	27:Z2:373:LEU:HD21	1.38	1.53
6:F2:142:ALA:C	9:I2:1395:LEU:CD2	1.81	1.52
27:Z2:581:PHE:CA	27:Z2:581:PHE:N	1.71	1.52
25:X1:648:LEU:CB	27:Z2:547:VAL:HG11	1.07	1.52
25:X2:778:LYS:CG	25:X2:795:LYS:H	1.20	1.52
27:Z1:227:LEU:CD2	27:Z1:256:VAL:CG1	1.75	1.52
9:I1:910:LYS:C	13:M1:545:GLU:HG2	1.33	1.52
9:I2:919:ALA:CB	16:P3:157:GLU:HA	1.39	1.52
1:A4:520:GLU:CG	4:D3:1017:THR:HG23	1.33	1.52
9:I2:917:TYR:CE2	15:O3:190:ARG:NH1	1.75	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1443:MET:HE3	27:Z2:332:GLU:CD	1.30	1.52
27:Z1:217:LEU:CD2	27:Z1:269:LYS:HD3	1.08	1.52
27:Z2:241:THR:CB	27:Z2:246:LYS:HE2	1.40	1.52
6:F2:142:ALA:C	9:I2:1395:LEU:HD21	1.16	1.51
17:Q2:922:LEU:HD21	19:R2:688:LEU:CB	1.35	1.51
27:Z2:10:LEU:CD2	27:Z2:431:TRP:CH2	1.93	1.51
9:I1:1051:LYS:HE2	14:N1:289:PHE:CD2	1.39	1.51
9:I1:1667:GLN:CG	9:I2:1669:ARG:HB3	1.34	1.51
25:X2:774:ASN:ND2	25:X2:798:ASN:CB	1.71	1.51
27:Z1:216:LEU:CG	27:Z1:272:ILE:CD1	1.86	1.51
27:Z1:381:ILE:CG2	27:Z1:417:ILE:HD11	1.38	1.51
27:Z2:211:PHE:CA	27:Z2:211:PHE:N	1.68	1.51
9:I1:900:ARG:H	13:M1:580:LYS:CD	1.20	1.51
27:Z1:209:TYR:HB3	27:Z1:210:PRO:CD	1.12	1.51
29:b1:68:TYR:CD2	29:b2:46:LYS:CD	1.89	1.51
29:b2:55:ASN:N	29:b2:55:ASN:CA	1.69	1.51
1:A3:1332:ARG:CD	4:D3:899:THR:CG2	1.89	1.51
9:I2:1049:LEU:HD12	16:P3:141:ALA:C	1.33	1.51
25:X2:692:LYS:HG2	27:Z2:431:TRP:CZ2	1.00	1.51
25:X2:699:TYR:CB	27:Z2:49:LEU:HD12	1.39	1.51
1:A2:1204:TRP:NE1	1:A1:599:ARG:HA	1.18	1.51
9:I1:900:ARG:HB2	13:M1:580:LYS:CB	1.41	1.51
9:I1:977:ASN:CA	15:O1:177:HIS:H	1.16	1.51
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CD1	1.91	1.51
27:Z1:227:LEU:CD2	27:Z1:256:VAL:HG12	1.07	1.51
27:Z2:216:LEU:CG	27:Z2:272:ILE:CD1	1.86	1.51
9:I1:1667:GLN:CD	9:I2:1669:ARG:HB3	1.35	1.50
25:X2:789:GLU:CA	25:X2:789:GLU:N	1.71	1.50
1:A2:1221:ILE:CD1	1:A1:600:LYS:HE3	1.40	1.50
6:F1:135:VAL:HG11	9:I1:1336:MET:CB	1.41	1.50
25:X2:822:LYS:CA	27:Z1:262:ASN:ND2	1.69	1.50
27:Z1:198:ASN:CA	27:Z1:198:ASN:N	1.69	1.50
27:Z2:342:TYR:CE2	27:Z2:344:TYR:HD2	1.27	1.50
1:A3:1087:GLY:N	4:D3:1096:TYR:HE1	1.04	1.50
9:I2:976:ARG:HB2	14:N3:297:ALA:CB	1.07	1.50
27:Z1:10:LEU:CD2	27:Z1:431:TRP:CH2	1.93	1.50
27:Z2:303:ALA:CB	27:Z2:363:LEU:HD22	1.39	1.50
29:b1:55:ASN:CA	29:b1:55:ASN:N	1.70	1.50
1:A3:1402:ASP:C	4:D3:824:ARG:HD3	1.33	1.50
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:CD	1.21	1.50
26:Y2:1291:LEU:CD1	27:Z2:581:PHE:HD1	1.23	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1328:ARG:HB3	4:D1:976:ARG:NH1	1.21	1.50
6:F1:1806:ARG:CA	14:N2:412:ASN:ND2	1.68	1.50
27:Z1:209:TYR:CE1	27:Z1:335:MET:HB3	1.45	1.50
27:Z2:209:TYR:HB3	27:Z2:210:PRO:CD	1.12	1.50
9:I2:964:SER:CA	16:P3:149:ARG:HA	1.37	1.49
9:I2:1098:LEU:HB3	15:O3:269:ILE:CA	1.22	1.49
9:I2:1255:HIS:HD2	14:N3:407:ALA:CA	1.21	1.49
25:X1:700:ILE:HB	26:Y1:1298:TYR:CE1	0.99	1.49
25:X2:700:ILE:HB	26:Y2:1298:TYR:CE1	1.00	1.49
25:X2:815:GLU:CG	26:Y2:1402:LEU:CD2	1.84	1.49
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CD1	1.91	1.49
27:Z1:581:PHE:CA	27:Z1:581:PHE:N	1.71	1.49
6:F1:159:ALA:C	9:I1:1335:LYS:HG3	1.28	1.49
22:U1:243:PHE:CD2	27:Z1:657:TYR:CA	1.96	1.49
27:Z1:363:LEU:CD1	27:Z1:373:LEU:HD21	1.38	1.49
25:X1:717:LYS:CE	26:Y1:1320:LEU:CD1	1.88	1.49
27:Z2:93:VAL:C	27:Z2:94:PRO:CD	1.80	1.49
6:F2:1267:ARG:NH1	15:O4:262:ASP:CB	1.76	1.49
9:I1:1311:LEU:CD2	15:O1:266:GLN:HB2	1.41	1.49
25:X2:690:GLN:NE2	27:Z2:581:PHE:CE2	1.78	1.49
27:Z1:211:PHE:N	27:Z1:211:PHE:CA	1.67	1.49
26:Y1:1291:LEU:CD1	27:Z1:581:PHE:HD1	1.23	1.49
27:Z1:342:TYR:CE2	27:Z1:344:TYR:HD2	1.27	1.49
25:X1:700:ILE:CB	26:Y1:1298:TYR:HE1	1.23	1.48
25:X1:717:LYS:HE2	26:Y1:1320:LEU:CD1	1.01	1.48
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:HB2	1.48	1.48
27:Z1:26:ILE:HG22	27:Z1:440:MET:CE	1.42	1.48
1:A2:1225:PRO:CB	1:A1:640:LEU:HD22	1.40	1.48
9:I2:1049:LEU:HB3	14:N3:293:LYS:CA	1.43	1.48
25:X1:690:GLN:NE2	27:Z1:581:PHE:CE2	1.78	1.48
27:Z2:217:LEU:CD2	27:Z2:269:LYS:CD	1.88	1.48
29:b1:16:ILE:CD1	29:b1:21:LYS:CG	1.88	1.48
9:I2:968:PRO:HB2	14:N3:303:SER:CB	1.40	1.48
9:I2:1255:HIS:CD2	14:N3:407:ALA:CA	1.91	1.48
25:X2:717:LYS:HE2	26:Y2:1320:LEU:CD1	1.02	1.48
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HE2	1.20	1.48
27:Z1:241:THR:CB	27:Z1:246:LYS:HE2	1.40	1.48
27:Z1:389:TRP:CE3	27:Z1:393:LEU:HD12	1.43	1.48
18:R1:402:GLY:CA	18:R1:444:ALA:HB2	1.43	1.48
25:X2:717:LYS:CE	26:Y2:1320:LEU:CD1	1.88	1.48
27:Z1:27:PHE:CZ	27:Z1:36:VAL:HG21	1.49	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:137:TYR:CA	27:Z1:217:LEU:HD21	1.44	1.48
27:Z1:283:GLY:CA	27:Z1:283:GLY:N	1.75	1.48
27:Z2:209:TYR:CE1	27:Z2:335:MET:HB3	1.45	1.48
9:I2:925:LEU:HD11	15:O3:186:PHE:CB	1.37	1.48
9:I2:981:VAL:CG2	15:O3:175:SER:HB3	1.20	1.48
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CA	1.97	1.48
27:Z1:303:ALA:CB	27:Z1:363:LEU:HD22	1.39	1.48
27:Z2:123:PRO:C	27:Z2:123:PRO:CA	1.87	1.48
1:A2:1201:ARG:CA	1:A1:648:TYR:CE1	1.98	1.47
25:X2:695:GLN:CB	27:Z2:48:VAL:HG11	1.03	1.47
25:X2:700:ILE:CB	26:Y2:1298:TYR:CE1	1.93	1.47
27:Z1:188:SER:HB2	27:Z1:195:TYR:CE2	1.50	1.47
29:b1:68:TYR:CD2	29:b2:46:LYS:HD2	0.95	1.47
1:A3:1088:ASN:O	4:D3:1101:HIS:CE1	1.67	1.47
6:F1:990:GLN:NE2	9:I1:1394:ASN:ND2	1.61	1.47
9:I1:1051:LYS:CG	14:N1:289:PHE:CE2	1.93	1.47
27:Z1:217:LEU:CD2	27:Z1:269:LYS:CD	1.87	1.47
27:Z2:119:GLU:C	27:Z2:119:GLU:CA	1.86	1.47
9:I2:1103:LEU:CD1	13:M3:611:LYS:HB3	0.99	1.47
1:A3:1200:ARG:CG	1:A4:591:ASP:HB3	1.44	1.46
10:J1:248:VAL:HG22	15:O1:273:ASP:CB	1.44	1.46
27:Z1:120:GLU:H	27:Z1:120:GLU:C	0.91	1.46
27:Z2:389:TRP:CE3	27:Z2:393:LEU:HD12	1.43	1.46
25:X1:644:TRP:C	27:Z1:535:PHE:CZ	1.94	1.46
25:X1:700:ILE:CB	26:Y1:1298:TYR:CE1	1.92	1.46
1:A3:1332:ARG:HH22	4:D3:902:SER:CB	1.28	1.46
9:I1:917:TYR:CD1	13:M1:534:GLN:OE1	1.65	1.46
9:I1:1051:LYS:N	14:N1:293:LYS:HD3	1.19	1.46
25:X2:778:LYS:CD	25:X2:795:LYS:H	1.24	1.46
25:X2:778:LYS:CD	25:X2:795:LYS:CB	1.90	1.46
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:CE	1.89	1.46
9:I1:967:SER:HB3	15:O1:178:ASP:CA	1.46	1.46
25:X2:695:GLN:NE2	27:Z2:431:TRP:CE2	1.80	1.46
25:X2:699:TYR:HA	27:Z2:49:LEU:CD1	1.42	1.46
25:X1:795:LYS:CG	27:Z1:665:ILE:HG22	1.45	1.46
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:NE1	1.13	1.46
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:HE2	1.23	1.46
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:NE1	1.13	1.46
26:Y2:1332:LYS:CA	27:Z1:109:PHE:CZ	1.98	1.46
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:HB2	1.48	1.46
26:Y2:1431:MET:HA	26:Y2:1434:PHE:CD2	1.51	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1386:GLU:CD	1:A1:728:LYS:CE	1.87	1.45
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CE1	1.49	1.45
6:F1:142:ALA:CB	9:I1:1395:LEU:N	1.78	1.45
26:Y1:1383:ALA:N	26:Y2:1364:ASN:CB	1.76	1.45
26:Y2:1332:LYS:CG	27:Z1:97:TYR:HB2	1.42	1.45
27:Z1:213:PRO:CD	27:Z1:213:PRO:N	1.76	1.45
27:Z2:27:PHE:CZ	27:Z2:36:VAL:HG21	1.49	1.45
27:Z2:117:ASP:CA	27:Z2:124:LYS:NZ	1.77	1.45
1:A2:1201:ARG:CA	1:A1:648:TYR:HE1	1.26	1.45
1:A3:1332:ARG:HD2	4:D3:899:THR:CG2	0.98	1.45
6:F1:273:ALA:H	9:I1:1209:THR:N	0.97	1.45
9:I2:976:ARG:NH2	14:N3:293:LYS:CG	1.79	1.45
25:X2:693:ILE:HD12	27:Z2:7:LEU:CD1	1.44	1.45
25:X2:778:LYS:HD3	25:X2:795:LYS:CA	1.44	1.45
26:Y2:1334:LEU:CD2	27:Z1:110:GLN:H	1.28	1.45
27:Z2:325:ILE:HG23	27:Z2:350:LEU:CD1	1.45	1.45
29:b1:82:GLY:C	29:b1:83:PRO:CD	1.85	1.45
9:I2:1029:LEU:CG	13:M3:613:ASP:HB3	1.27	1.45
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CD1	1.52	1.45
27:Z2:137:TYR:CA	27:Z2:217:LEU:HD21	1.44	1.45
1:A2:1277:TRP:CG	1:A1:642:ARG:HH22	1.34	1.45
9:I2:1103:LEU:C	13:M3:611:LYS:HZ1	1.18	1.45
9:I2:1103:LEU:HD12	13:M3:611:LYS:CB	1.03	1.45
25:X1:665:TRP:HE1	26:Y1:1267:GLU:CB	1.06	1.45
29:b1:16:ILE:HD11	29:b1:21:LYS:CG	1.46	1.45
9:I2:1102:GLN:H	15:O3:272:SER:CB	1.12	1.45
29:b1:68:TYR:HD2	29:b2:46:LYS:CD	1.25	1.45
6:F1:1806:ARG:C	14:N2:412:ASN:CG	1.85	1.44
25:X2:644:TRP:C	27:Z2:535:PHE:CZ	1.94	1.44
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:HE2	1.27	1.44
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:CA	1.45	1.44
27:Z2:129:LYS:CE	27:Z2:185:LEU:CG	1.95	1.44
27:Z2:227:LEU:CD2	27:Z2:256:VAL:CG1	1.75	1.44
9:I1:1051:LYS:CA	14:N1:293:LYS:HD3	1.46	1.44
9:I2:1095:TYR:CE1	15:O3:267:ALA:C	1.95	1.44
22:U1:201:LYS:NZ	26:Y2:1372:LYS:C	1.72	1.44
22:U1:243:PHE:CG	27:Z1:657:TYR:HA	1.48	1.44
26:Y1:1430:ASP:HB3	26:Y1:1434:PHE:CZ	0.92	1.44
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:CB	1.23	1.44
27:Z2:129:LYS:CE	27:Z2:185:LEU:HD12	1.48	1.44
9:I1:838:GLU:HG2	15:O1:198:ARG:NH2	1.16	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:818:ILE:CD1	26:Y2:1405:GLN:HG3	1.47	1.44
26:Y2:1383:ALA:CA	26:Y2:1383:ALA:N	1.78	1.44
27:Z2:27:PHE:CE2	27:Z2:36:VAL:CG2	1.81	1.44
27:Z2:188:SER:HB2	27:Z2:195:TYR:CE2	1.50	1.44
27:Z2:434:GLN:CG	27:Z2:580:LYS:HE3	1.43	1.44
1:A2:1386:GLU:CD	1:A1:728:LYS:HE2	1.03	1.44
9:I2:806:VAL:CG1	15:O3:247:TRP:HB2	1.35	1.44
9:I2:925:LEU:CD1	15:O3:186:PHE:HB3	1.48	1.44
9:I2:968:PRO:HG2	14:N3:300:ALA:CA	1.46	1.44
9:I2:1049:LEU:CD1	14:N3:296:GLY:CA	1.80	1.44
25:X2:665:TRP:HE1	26:Y2:1267:GLU:CB	1.28	1.44
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CD1	1.52	1.44
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:HA	1.33	1.44
27:Z1:26:ILE:CG2	27:Z1:440:MET:SD	2.05	1.44
27:Z1:93:VAL:O	27:Z1:94:PRO:CD	1.65	1.44
25:X1:742:GLN:CG	25:X1:743:GLN:CG	1.91	1.44
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CD1	2.01	1.44
26:Y2:1339:PHE:HD2	27:Z2:630:TRP:CE3	1.17	1.44
27:Z2:135:LYS:HZ3	27:Z2:218:LEU:CD2	1.28	1.44
27:Z2:283:GLY:CA	27:Z2:283:GLY:N	1.75	1.44
17:Q1:386:PHE:CE2	17:Q1:566:ASN:OD1	1.69	1.43
25:X2:699:TYR:CA	27:Z2:49:LEU:HD12	1.47	1.43
25:X2:823:LYS:HB3	27:Z1:259:LEU:CD2	1.45	1.43
26:Y1:1291:LEU:CD1	27:Z1:581:PHE:CD1	1.99	1.43
26:Y1:1339:PHE:HD2	27:Z1:630:TRP:CE3	1.17	1.43
26:Y2:1334:LEU:O	27:Z1:108:ALA:CB	1.67	1.43
27:Z1:129:LYS:CE	27:Z1:185:LEU:CG	1.95	1.43
1:A3:1332:ARG:CZ	4:D3:899:THR:O	1.64	1.43
9:I2:906:GLY:HA3	13:M3:573:ARG:CD	1.48	1.43
9:I2:1168:ALA:CB	15:O3:269:ILE:C	1.89	1.43
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:CD	1.92	1.43
26:Y2:1291:LEU:CD1	27:Z2:581:PHE:CD1	1.99	1.43
27:Z2:57:LEU:HD22	27:Z2:109:PHE:CD2	1.51	1.43
1:A1:827:ILE:HG21	1:A1:849:SER:N	1.18	1.43
1:A2:1328:ARG:NH2	4:D1:898:ASP:CG	1.74	1.43
1:A4:127:HIS:HE2	4:D3:1006:ASP:C	1.22	1.43
6:F1:273:ALA:N	9:I1:1209:THR:H	1.01	1.43
9:I1:924:ILE:H	15:O1:187:ASN:ND2	1.08	1.43
9:I1:1051:LYS:NZ	14:N1:290:VAL:CA	1.80	1.43
9:I2:1168:ALA:CB	15:O3:270:THR:N	1.81	1.43
9:I2:1305:LEU:CA	15:O3:264:ILE:HD11	1.45	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:400:LYS:CB	24:W1:720:PHE:CB	1.97	1.43
25:X2:692:LYS:HA	27:Z2:431:TRP:CE2	1.53	1.43
26:Y1:1431:MET:HA	26:Y1:1434:PHE:CD2	1.51	1.43
6:F1:138:ILE:CB	9:I1:1392:VAL:HG23	0.95	1.43
25:X2:700:ILE:CB	26:Y2:1298:TYR:HE1	1.23	1.43
26:Y1:1294:LYS:CG	27:Z1:588:TRP:NE1	1.82	1.43
27:Z1:12:ILE:CG2	27:Z1:37:PHE:HE2	1.31	1.43
27:Z1:35:ILE:HD11	27:Z1:429:ILE:CD1	1.45	1.43
27:Z1:325:ILE:HG23	27:Z1:350:LEU:CD1	1.45	1.43
9:I2:919:ALA:CB	16:P3:157:GLU:OE1	1.67	1.43
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:NZ	1.32	1.43
27:Z2:12:ILE:CG2	27:Z2:37:PHE:HE2	1.31	1.43
1:A2:1220:PRO:O	1:A1:599:ARG:CD	1.65	1.42
10:J1:247:ASP:CG	15:O1:276:GLY:HA3	1.42	1.42
25:X1:637:LEU:N	26:Y1:1218:PHE:CD2	1.85	1.42
25:X1:818:ILE:CD1	26:Y1:1405:GLN:HG3	1.47	1.42
25:X2:637:LEU:O	25:X2:641:VAL:CG2	1.64	1.42
25:X2:695:GLN:HB2	27:Z2:431:TRP:CE3	1.54	1.42
26:Y2:1230:GLU:HG2	26:Y2:1233:ARG:NH2	1.18	1.42
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CD1	1.69	1.42
27:Z1:35:ILE:HB	27:Z1:46:TYR:CE2	1.50	1.42
27:Z2:35:ILE:HD11	27:Z2:429:ILE:CD1	1.45	1.42
29:b2:55:ASN:N	29:b2:55:ASN:HA	1.25	1.42
1:A2:1226:LEU:CD2	1:A1:647:GLU:H	1.33	1.42
9:I1:754:ARG:NH1	13:M1:552:TYR:HD2	0.99	1.42
9:I2:976:ARG:N	14:N3:300:ALA:HB3	1.20	1.42
20:S1:568:ALA:CA	21:T1:86:ASN:HD21	1.31	1.42
26:Y1:1294:LYS:CE	27:Z1:588:TRP:CD1	2.02	1.42
27:Z1:297:TYR:CD2	27:Z1:321:ASP:OD2	1.72	1.42
9:I1:1038:ILE:HG12	15:O1:179:LEU:CD1	1.50	1.42
9:I1:1051:LYS:N	14:N1:293:LYS:CD	1.82	1.42
9:I2:1103:LEU:CB	13:M3:611:LYS:CE	1.79	1.42
25:X2:694:ASP:HB2	27:Z2:431:TRP:CB	1.47	1.42
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CD2	1.48	1.42
27:Z1:541:LYS:CB	27:Z2:554:HIS:H	1.30	1.42
1:A4:715:GLU:HB3	4:D3:973:GLN:NE2	1.21	1.42
6:F2:132:THR:CG2	9:I2:1334:PRO:HA	1.50	1.42
9:I1:900:ARG:HG3	13:M1:577:LEU:CA	1.46	1.42
9:I1:980:ILE:HD11	15:O1:172:ALA:C	1.42	1.42
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CD	1.81	1.42
9:I2:1307:LEU:CB	14:N3:414:ALA:O	1.68	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:695:GLN:HB3	27:Z2:48:VAL:CG1	0.97	1.42
27:Z2:35:ILE:HB	27:Z2:46:TYR:CE2	1.50	1.42
27:Z2:363:LEU:HD11	27:Z2:373:LEU:CD2	1.47	1.42
1:A2:1229:VAL:HG22	1:A1:639:ASN:C	1.43	1.42
25:X1:742:GLN:CD	25:X1:743:GLN:HG2	1.40	1.42
25:X1:815:GLU:CG	26:Y1:1402:LEU:CD2	1.84	1.42
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CD2	1.49	1.42
26:Y1:1382:VAL:C	26:Y1:1384:LYS:HG3	1.45	1.42
27:Z1:541:LYS:CB	27:Z2:550:HIS:O	1.67	1.42
27:Z2:668:GLU:CB	27:Z2:668:GLU:C	1.93	1.42
6:F1:1392:LEU:CD2	15:O2:259:ASP:OD1	1.67	1.41
9:I1:911:PRO:CG	15:O1:202:LEU:CD1	1.98	1.41
22:U1:289:GLN:CG	25:X1:794:ILE:CA	1.89	1.41
25:X2:726:VAL:C	25:X2:726:VAL:CG1	1.89	1.41
26:Y1:1230:GLU:HG2	26:Y1:1233:ARG:NH2	1.17	1.41
26:Y1:1455:ASN:C	26:Y1:1455:ASN:CA	1.92	1.41
27:Z1:57:LEU:HD22	27:Z1:109:PHE:CD2	1.51	1.41
29:b2:9:PRO:N	29:b2:9:PRO:CD	1.68	1.41
9:I1:900:ARG:N	13:M1:580:LYS:HD3	1.12	1.41
9:I1:1357:LYS:NZ	15:O1:263:GLN:HG3	1.10	1.41
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CB	1.75	1.41
25:X2:778:LYS:NZ	25:X2:795:LYS:HE3	1.16	1.41
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HB3	1.21	1.41
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:HD23	1.23	1.41
26:Y2:1294:LYS:CE	27:Z2:588:TRP:CD1	2.03	1.41
9:I2:921:GLU:CB	16:P3:157:GLU:OE2	1.66	1.41
25:X1:789:GLU:OE2	25:X1:793:LEU:CD1	1.67	1.41
25:X1:795:LYS:NZ	27:Z1:666:GLU:HA	1.35	1.41
25:X2:699:TYR:CG	27:Z2:49:LEU:CD1	1.85	1.41
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:NZ	1.32	1.41
27:Z1:135:LYS:NZ	27:Z1:218:LEU:CD2	1.79	1.41
27:Z1:179:VAL:HG22	27:Z1:206:PHE:CD2	1.54	1.41
27:Z2:625:HIS:NE2	27:Z2:628:MET:HB3	1.12	1.41
1:A4:827:ILE:HG21	1:A4:849:SER:N	1.18	1.41
9:I1:976:ARG:N	14:N1:301:LEU:CD2	1.81	1.41
9:I1:1255:HIS:CE1	15:O1:254:ARG:HD2	1.55	1.41
9:I2:813:ILE:CG2	15:O3:241:SER:HB2	1.48	1.41
22:U1:340:LYS:CE	27:Z1:646:HIS:CE1	1.98	1.41
25:X2:692:LYS:HA	27:Z2:431:TRP:CE3	1.55	1.41
27:Z1:26:ILE:N	27:Z1:440:MET:HE1	1.15	1.41
27:Z1:129:LYS:CE	27:Z1:185:LEU:HD12	1.47	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:223:LEU:HD11	27:Z2:263:TRP:CD1	1.55	1.41
1:A4:625:LEU:C	4:D3:981:VAL:CG2	1.91	1.41
27:Z1:223:LEU:HD11	27:Z1:263:TRP:CD1	1.55	1.41
27:Z1:363:LEU:HD11	27:Z1:373:LEU:CD2	1.47	1.41
1:A4:929:ASN:ND2	4:D3:468:LYS:CE	1.84	1.40
6:F1:1806:ARG:HA	14:N2:412:ASN:ND2	1.13	1.40
9:I2:925:LEU:CD1	15:O3:186:PHE:CB	1.99	1.40
9:I2:1049:LEU:CD1	14:N3:296:GLY:HA3	1.18	1.40
27:Z1:263:TRP:CZ3	27:Z1:265:SER:HA	1.57	1.40
1:A3:1070:ASP:OD2	9:I2:1238:LYS:CB	1.70	1.40
1:A3:1087:GLY:N	4:D3:1096:TYR:CE1	1.86	1.40
1:A4:625:LEU:C	4:D3:981:VAL:HG21	1.45	1.40
9:I2:914:ASN:CB	15:O3:190:ARG:O	1.68	1.40
9:I2:982:GLN:HB2	15:O3:179:LEU:CD1	1.37	1.40
26:Y1:1225:PHE:CE2	27:Z1:539:ILE:CG1	2.00	1.40
27:Z1:26:ILE:CB	27:Z1:440:MET:SD	2.07	1.40
27:Z1:129:LYS:CE	27:Z1:185:LEU:CD1	1.98	1.40
27:Z2:297:TYR:CD2	27:Z2:321:ASP:OD2	1.73	1.40
1:A2:1229:VAL:CG2	1:A1:640:LEU:CA	1.99	1.40
6:F1:158:PRO:CG	9:I1:1340:LEU:H	1.32	1.40
9:I2:1031:ALA:HB1	13:M3:621:ARG:NH1	1.09	1.40
27:Z1:24:ARG:NH2	27:Z1:440:MET:CG	1.85	1.40
27:Z1:120:GLU:C	27:Z1:120:GLU:N	1.76	1.40
27:Z1:153:MET:SD	27:Z1:211:PHE:HZ	1.45	1.40
6:F1:135:VAL:O	9:I1:1392:VAL:CG1	1.67	1.40
9:I2:977:ASN:N	15:O3:174:LEU:CD2	1.76	1.40
17:Q2:852:ILE:HD11	17:Q2:913:LYS:NZ	1.09	1.40
25:X1:789:GLU:HG2	27:Z1:680:TRP:CD2	1.55	1.40
26:Y1:1122:ILE:CD1	29:b1:87:LEU:HD11	1.48	1.40
26:Y1:1456:LEU:C	26:Y1:1456:LEU:HD12	1.44	1.40
1:A2:1201:ARG:HE	1:A1:647:GLU:CB	1.32	1.40
6:F1:135:VAL:O	9:I1:1392:VAL:CB	1.66	1.40
9:I1:1051:LYS:CE	14:N1:289:PHE:CD2	2.02	1.40
9:I2:914:ASN:ND2	15:O3:194:GLU:HB3	1.32	1.40
25:X2:692:LYS:HA	27:Z2:431:TRP:CZ3	1.56	1.40
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CB	1.83	1.40
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:NZ	1.36	1.40
27:Z2:135:LYS:NZ	27:Z2:218:LEU:CD2	1.79	1.40
1:A2:1221:ILE:CD1	1:A1:600:LYS:CE	1.94	1.39
9:I2:914:ASN:ND2	15:O3:194:GLU:CB	1.84	1.39
17:Q1:443:TRP:CG	17:Q1:504:PHE:CD1	2.10	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:204:VAL:C	27:Z1:668:GLU:OE2	1.64	1.39
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:CZ	2.02	1.39
27:Z2:117:ASP:CB	27:Z2:124:LYS:NZ	1.84	1.39
27:Z2:263:TRP:CZ3	27:Z2:265:SER:HA	1.56	1.39
1:A2:1237:LEU:HD11	1:A1:588:SER:CB	1.52	1.39
9:I1:838:GLU:CG	15:O1:198:ARG:CZ	2.00	1.39
9:I2:896:PRO:CG	13:M3:588:MET:HE3	1.50	1.39
9:I2:1095:TYR:CE1	15:O3:268:GLY:N	1.90	1.39
25:X1:815:GLU:CB	26:Y1:1402:LEU:HD21	1.52	1.39
25:X2:699:TYR:CA	27:Z2:49:LEU:CD1	1.97	1.39
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:CD1	1.55	1.39
27:Z2:179:VAL:HG22	27:Z2:206:PHE:CD2	1.54	1.39
1:A4:127:HIS:CD2	4:D3:1006:ASP:O	1.74	1.39
9:I1:1255:HIS:NE2	15:O1:254:ARG:HD3	1.29	1.39
9:I2:967:SER:HB2	16:P3:145:SER:CA	1.51	1.39
22:U1:340:LYS:CE	27:Z1:646:HIS:HE1	1.28	1.39
24:W1:403:ASP:CB	24:W1:723:PHE:O	1.68	1.39
9:I2:916:ALA:CB	15:O3:189:ARG:C	1.92	1.39
20:S1:568:ALA:HA	21:T1:86:ASN:ND2	1.34	1.39
26:Y2:1365:ILE:CG2	26:Y2:1383:ALA:O	1.68	1.39
1:A3:1223:GLU:O	1:A4:594:LEU:CD2	1.69	1.39
9:I2:976:ARG:HB2	14:N3:297:ALA:CA	1.52	1.39
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CA	1.71	1.39
9:I1:908:ARG:NE	15:O1:209:LEU:HD13	1.34	1.38
22:U1:212:LYS:NZ	25:X1:768:GLU:HG2	1.34	1.38
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:CB	1.52	1.38
26:Y2:1235:MET:O	26:Y2:1239:PHE:CD2	1.76	1.38
27:Z1:342:TYR:CE2	27:Z1:344:TYR:CD2	2.11	1.38
27:Z2:10:LEU:HD21	27:Z2:431:TRP:CH2	1.54	1.38
27:Z2:129:LYS:CE	27:Z2:185:LEU:CD1	1.98	1.38
1:A2:1229:VAL:HG21	1:A1:640:LEU:CA	1.52	1.38
6:F1:1265:GLN:CB	15:O2:252:VAL:HG23	1.52	1.38
6:F1:1392:LEU:HD21	15:O2:259:ASP:CG	1.45	1.38
7:G1:247:ASP:N	13:M2:594:LYS:CD	1.86	1.38
9:I2:807:LEU:CD1	15:O3:248:SER:HB3	1.53	1.38
9:I2:976:ARG:CA	14:N3:297:ALA:CA	1.98	1.38
9:I2:976:ARG:N	14:N3:297:ALA:HA	1.35	1.38
25:X2:815:GLU:CB	26:Y2:1402:LEU:HD21	1.52	1.38
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:CD1	1.36	1.38
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CE2	1.75	1.38
27:Z2:153:MET:SD	27:Z2:211:PHE:CZ	2.16	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b2:56:THR:CB	29:b2:91:THR:O	1.68	1.38
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CG	1.32	1.38
9:I2:1103:LEU:N	13:M3:611:LYS:HE2	1.31	1.38
26:Y1:1235:MET:O	26:Y1:1239:PHE:CD2	1.75	1.38
26:Y2:1294:LYS:CG	27:Z2:588:TRP:NE1	1.82	1.38
27:Z2:125:SER:CA	27:Z2:147:GLU:OE1	1.70	1.38
27:Z2:437:LEU:HD12	27:Z2:448:GLN:NE2	1.09	1.38
1:A2:1230:TYR:CZ	1:A1:590:SER:CA	1.91	1.38
6:F1:142:ALA:HB3	9:I1:1395:LEU:N	1.11	1.38
9:I1:918:SER:OG	15:O1:193:ALA:HB2	1.23	1.38
9:I2:1098:LEU:CB	15:O3:269:ILE:HA	1.54	1.38
25:X1:648:LEU:HD11	27:Z1:535:PHE:CD1	1.58	1.38
25:X2:778:LYS:HZ2	25:X2:795:LYS:CE	1.37	1.38
25:X2:790:ASN:OD1	27:Z2:680:TRP:CH2	1.75	1.38
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:CD1	1.55	1.38
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CE2	1.75	1.38
27:Z2:93:VAL:O	27:Z2:94:PRO:CD	1.65	1.38
27:Z2:117:ASP:HA	27:Z2:124:LYS:NZ	1.09	1.38
1:A1:827:ILE:CG2	1:A1:849:SER:CA	2.01	1.38
1:A2:1228:TYR:OH	1:A1:642:ARG:CB	1.72	1.38
1:A4:520:GLU:HG2	4:D3:1017:THR:CG2	1.54	1.37
1:A4:715:GLU:CB	4:D3:973:GLN:HE22	1.34	1.38
9:I2:967:SER:CB	16:P3:145:SER:HA	1.54	1.38
9:I2:1106:LYS:CB	15:O3:275:LEU:HD12	1.54	1.38
9:I2:1305:LEU:HD21	15:O3:260:LEU:CD1	1.53	1.38
17:Q1:441:ARG:HH22	17:Q1:508:ASN:CB	1.36	1.38
17:Q1:386:PHE:CZ	17:Q1:566:ASN:OD1	1.76	1.37
25:X1:789:GLU:C	27:Z1:669:THR:C	1.89	1.37
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:HZ	1.16	1.37
27:Z1:153:MET:SD	27:Z1:211:PHE:CZ	2.16	1.37
29:b2:16:ILE:HD13	29:b2:77:VAL:CG1	1.54	1.37
1:A2:1233:GLN:HE21	1:A1:640:LEU:CD1	1.35	1.37
7:G2:252:LEU:C	15:O4:248:SER:O	1.66	1.37
9:I1:838:GLU:C	15:O1:198:ARG:NH2	1.80	1.37
26:Y1:1382:VAL:C	26:Y2:1364:ASN:HB3	1.46	1.37
27:Z1:125:SER:CA	27:Z1:147:GLU:OE1	1.70	1.37
27:Z1:437:LEU:CG	27:Z1:450:ILE:HD11	1.54	1.37
9:I2:906:GLY:CA	13:M3:573:ARG:CD	2.02	1.37
9:I2:1029:LEU:HG	13:M3:613:ASP:CB	1.15	1.37
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:CD	1.55	1.37
27:Z1:137:TYR:CB	27:Z1:269:LYS:CD	2.01	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:303:ALA:CB	27:Z1:363:LEU:CD2	2.02	1.37
27:Z2:153:MET:SD	27:Z2:211:PHE:HZ	1.45	1.37
27:Z2:223:LEU:CD1	27:Z2:263:TRP:NE1	1.88	1.37
1:A3:1200:ARG:HG2	1:A4:591:ASP:CB	1.52	1.37
9:I1:897:GLU:HA	13:M1:580:LYS:CG	1.51	1.37
9:I2:902:GLN:HB3	13:M3:580:LYS:CB	1.26	1.37
25:X2:648:LEU:HD11	27:Z2:535:PHE:CD1	1.58	1.37
26:Y1:1435:LYS:NZ	27:Z1:225:LEU:HD23	1.35	1.37
27:Z2:47:ASN:ND2	27:Z2:95:TRP:CZ2	1.86	1.37
4:D1:673:LEU:CG	1:A1:1094:ILE:HD13	1.52	1.36
9:I1:1315:GLN:CB	15:O1:266:GLN:O	1.71	1.36
9:I1:1357:LYS:HZ2	15:O1:263:GLN:CG	1.34	1.36
9:I2:1305:LEU:CD2	15:O3:264:ILE:HG12	1.54	1.36
26:Y2:1225:PHE:CE2	27:Z2:539:ILE:CG1	2.00	1.36
27:Z1:381:ILE:HG22	27:Z1:417:ILE:CD1	1.53	1.36
27:Z2:437:LEU:CG	27:Z2:450:ILE:HD11	1.55	1.36
1:A2:1328:ARG:CB	4:D1:976:ARG:HH11	1.37	1.36
1:A3:1332:ARG:HH21	4:D3:903:ILE:N	1.23	1.36
1:A4:127:HIS:CE1	4:D3:1006:ASP:O	1.76	1.36
9:I1:896:PRO:CA	13:M1:583:ASP:HB3	1.55	1.36
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD12	1.49	1.36
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:NZ	1.36	1.36
26:Y1:1443:MET:CE	27:Z1:332:GLU:CD	1.85	1.36
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:HD22	1.51	1.36
27:Z2:129:LYS:HZ1	27:Z2:185:LEU:CB	1.37	1.36
27:Z2:361:LYS:NZ	27:Z2:378:ASP:HB2	1.38	1.36
27:Z2:437:LEU:CD1	27:Z2:448:GLN:HE21	1.37	1.36
1:A4:827:ILE:CG2	1:A4:849:SER:CA	2.01	1.36
9:I1:967:SER:CB	15:O1:178:ASP:CA	2.03	1.36
9:I2:806:VAL:HG13	15:O3:247:TRP:CB	1.40	1.36
9:I2:895:ARG:HG2	13:M3:584:GLN:C	1.47	1.36
9:I2:1103:LEU:CA	13:M3:611:LYS:CE	2.03	1.36
25:X1:742:GLN:HG2	25:X1:743:GLN:CA	1.53	1.36
27:Z1:8:SER:CA	27:Z1:8:SER:N	1.87	1.36
27:Z2:137:TYR:CB	27:Z2:269:LYS:CD	2.01	1.36
27:Z2:437:LEU:HG	27:Z2:450:ILE:CD1	1.55	1.36
29:b1:16:ILE:CD1	29:b1:21:LYS:HG3	1.49	1.36
29:b1:38:GLU:OE1	29:b1:61:VAL:CG1	1.71	1.36
1:A3:1332:ARG:CD	4:D3:899:THR:HG22	1.47	1.36
6:F1:138:ILE:HB	9:I1:1392:VAL:CG2	0.89	1.36
9:I2:813:ILE:CG2	15:O3:237:PRO:O	1.72	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:289:GLN:CD	25:X1:794:ILE:CG1	1.98	1.36
26:Y2:1435:LYS:NZ	27:Z2:225:LEU:HD23	1.35	1.36
27:Z2:120:GLU:C	27:Z2:120:GLU:N	1.82	1.36
29:b2:9:PRO:CD	29:b2:29:LYS:NZ	1.85	1.36
9:I2:978:LYS:HA	15:O3:174:LEU:O	1.23	1.36
25:X1:793:LEU:HD22	27:Z1:680:TRP:CD1	1.58	1.36
25:X2:775:THR:HA	25:X2:794:ILE:CD1	1.22	1.36
26:Y2:1334:LEU:CD2	27:Z1:110:GLN:N	1.84	1.36
27:Z1:47:ASN:ND2	27:Z1:95:TRP:CZ2	1.86	1.36
27:Z1:129:LYS:NZ	27:Z1:185:LEU:HB2	1.06	1.36
27:Z1:223:LEU:CD1	27:Z1:263:TRP:NE1	1.88	1.36
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ3	1.35	1.36
27:Z2:123:PRO:N	27:Z2:123:PRO:CD	1.89	1.36
7:G2:249:ASP:HA	15:O4:251:ILE:CG1	1.43	1.35
9:I1:1051:LYS:CE	14:N1:289:PHE:CE2	2.09	1.35
26:Y2:1225:PHE:CE2	27:Z2:539:ILE:HG12	1.14	1.35
27:Z1:7:LEU:CA	27:Z1:7:LEU:N	1.88	1.35
27:Z2:129:LYS:NZ	27:Z2:185:LEU:HB2	1.06	1.35
27:Z2:303:ALA:CB	27:Z2:363:LEU:CD2	2.01	1.35
27:Z2:342:TYR:CE2	27:Z2:344:TYR:CD2	2.11	1.35
1:A3:1332:ARG:NH2	4:D3:902:SER:HB2	1.33	1.35
9:I1:896:PRO:CB	13:M1:583:ASP:HB3	1.53	1.35
9:I1:1038:ILE:CG1	15:O1:179:LEU:HD13	1.55	1.35
9:I1:1051:LYS:HZ1	14:N1:290:VAL:N	1.20	1.35
18:R1:436:LEU:C	18:R1:449:LEU:O	1.65	1.35
22:U1:294:VAL:O	27:Z1:658:LEU:CD2	1.73	1.35
25:X2:692:LYS:HA	27:Z2:431:TRP:CH2	1.60	1.35
27:Z1:10:LEU:HD21	27:Z1:431:TRP:CH2	1.54	1.35
1:A2:1237:LEU:CD2	1:A1:588:SER:OG	1.73	1.35
1:A3:1330:VAL:HG23	4:D3:876:SER:OG	1.21	1.35
9:I2:914:ASN:HA	15:O3:194:GLU:CA	1.55	1.35
9:I2:1025:LEU:O	13:M3:613:ASP:HB2	1.18	1.35
25:X2:691:ASN:CB	27:Z2:431:TRP:CD1	1.75	1.35
25:X2:774:ASN:CB	25:X2:797:LEU:CD1	2.04	1.35
26:Y2:1295:VAL:HA	27:Z2:588:TRP:CZ3	1.61	1.35
27:Z2:668:GLU:C	27:Z2:668:GLU:CA	1.99	1.35
1:A2:1225:PRO:CB	1:A1:640:LEU:CD2	2.01	1.35
1:A3:1332:ARG:HE	4:D3:903:ILE:CG1	1.18	1.35
9:I2:976:ARG:CB	14:N3:297:ALA:HA	1.55	1.35
24:W1:526:ARG:HB2	24:W1:740:PHE:CA	1.57	1.35
24:W1:530:LYS:O	24:W1:746:CYS:C	1.66	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:726:VAL:O	25:X1:727:SER:CB	1.75	1.35
26:Y2:1443:MET:CE	27:Z2:332:GLU:CD	1.85	1.35
27:Z1:361:LYS:NZ	27:Z1:378:ASP:HB2	1.38	1.35
29:b1:75:HIS:ND1	29:b1:90:LYS:HD3	1.36	1.35
7:G1:255:LEU:CB	15:O2:246:LEU:H	1.37	1.35
7:G1:255:LEU:CA	15:O2:246:LEU:N	1.82	1.35
25:X2:765:LEU:CD2	27:Z2:652:GLN:OE1	1.72	1.35
27:Z1:41:ASN:ND2	27:Z1:60:SER:CA	1.90	1.35
27:Z2:213:PRO:CD	27:Z2:213:PRO:N	1.76	1.35
9:I1:1038:ILE:CD1	15:O1:179:LEU:CD1	2.04	1.34
22:U1:205:ALA:N	27:Z1:668:GLU:OE2	1.59	1.34
25:X1:765:LEU:CD2	27:Z1:652:GLN:OE1	1.72	1.34
27:Z1:26:ILE:CG2	27:Z1:440:MET:HE2	1.54	1.34
27:Z1:437:LEU:HG	27:Z1:450:ILE:CD1	1.55	1.34
9:I1:841:PHE:CE1	15:O1:191:ARG:NH2	1.89	1.34
9:I2:914:ASN:CG	15:O3:194:GLU:HB2	1.49	1.34
9:I2:1305:LEU:CD2	15:O3:264:ILE:CG1	2.05	1.34
25:X2:790:ASN:OD1	27:Z2:680:TRP:HH2	1.02	1.34
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:HG13	1.42	1.34
27:Z1:26:ILE:CB	27:Z1:440:MET:CE	2.05	1.34
27:Z1:216:LEU:CD2	27:Z1:272:ILE:CD1	2.05	1.34
27:Z2:24:ARG:CA	27:Z2:24:ARG:N	1.89	1.34
1:A2:1233:GLN:NE2	1:A1:640:LEU:HD11	1.05	1.34
25:X2:694:ASP:HB3	27:Z2:431:TRP:C	1.50	1.34
9:I2:899:LEU:CD1	13:M3:585:LEU:H	1.40	1.34
9:I2:976:ARG:CB	14:N3:297:ALA:CB	2.04	1.34
9:I2:1104:LEU:N	13:M3:611:LYS:NZ	1.71	1.34
9:I2:1107:SER:HB3	13:M3:615:PRO:CB	1.58	1.34
25:X2:692:LYS:HA	27:Z2:431:TRP:CZ2	1.62	1.34
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:CB	1.57	1.34
27:Z1:125:SER:HB3	27:Z1:148:ASP:OD2	1.23	1.34
27:Z2:189:LYS:C	27:Z2:311:GLN:CD	1.91	1.34
1:A2:1201:ARG:NE	1:A1:647:GLU:CB	1.90	1.34
1:A3:1086:LYS:CB	4:D3:1096:TYR:CE1	2.10	1.34
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HE2	1.50	1.34
26:Y2:1396:LEU:HD21	27:Z2:697:CYS:SG	1.65	1.34
29:b2:9:PRO:HD3	29:b2:29:LYS:NZ	1.05	1.34
9:I1:1255:HIS:CE1	15:O1:254:ARG:CD	2.09	1.33
9:I2:911:PRO:HB3	15:O3:197:ARG:NE	1.02	1.33
9:I2:1103:LEU:N	13:M3:611:LYS:CE	1.88	1.33
17:Q1:384:ASN:HB3	17:Q1:509:ALA:N	1.05	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:922:LEU:CD2	19:R2:688:LEU:HB3	1.55	1.33
26:Y1:1396:LEU:HD21	27:Z1:697:CYS:SG	1.66	1.33
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:NH2	1.89	1.33
27:Z1:45:TRP:CE2	27:Z1:95:TRP:HZ3	1.36	1.33
9:I2:979:ALA:N	15:O3:178:ASP:OD2	1.58	1.33
17:Q1:891:ILE:HD13	18:R1:715:LEU:CD2	1.58	1.33
26:Y1:1295:VAL:HA	27:Z1:588:TRP:CZ3	1.61	1.33
27:Z2:45:TRP:CE2	27:Z2:95:TRP:HZ3	1.37	1.33
29:b1:16:ILE:CG1	29:b1:21:LYS:CG	2.06	1.33
6:F2:139:GLN:OE1	9:I2:1340:LEU:HD22	1.26	1.33
9:I1:918:SER:OG	15:O1:193:ALA:CB	1.76	1.33
9:I1:1038:ILE:CG1	15:O1:179:LEU:CD1	2.04	1.33
9:I2:976:ARG:NE	14:N3:293:LYS:HG3	1.43	1.33
25:X2:822:LYS:C	27:Z1:262:ASN:ND2	1.82	1.33
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:HB3	1.01	1.33
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:HE2	1.54	1.33
27:Z1:27:PHE:CE1	27:Z1:36:VAL:CG1	2.10	1.33
27:Z2:41:ASN:ND2	27:Z2:60:SER:CA	1.90	1.33
27:Z2:41:ASN:ND2	27:Z2:60:SER:HA	1.41	1.33
27:Z2:216:LEU:CD2	27:Z2:272:ILE:CD1	2.05	1.33
27:Z2:234:TYR:HB2	27:Z2:253:LEU:CD1	1.57	1.33
6:F1:138:ILE:N	9:I1:1388:GLU:O	1.57	1.33
7:G2:249:ASP:CA	15:O4:251:ILE:HG12	1.31	1.33
9:I2:919:ALA:HB3	16:P3:157:GLU:CB	1.59	1.33
25:X1:797:LEU:HD21	27:Z1:687:LEU:CD2	1.57	1.33
27:Z1:27:PHE:CE2	27:Z1:36:VAL:CG2	1.81	1.33
9:I1:1255:HIS:NE2	15:O1:254:ARG:CD	1.91	1.33
25:X1:726:VAL:C	25:X1:727:SER:CA	2.00	1.33
26:Y1:1382:VAL:C	26:Y2:1364:ASN:CB	1.99	1.33
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HD12	1.61	1.33
27:Z1:31:ASN:HA	27:Z1:368:GLU:OE2	1.25	1.33
27:Z1:35:ILE:HG13	27:Z1:46:TYR:OH	1.27	1.33
27:Z1:389:TRP:CZ3	27:Z1:393:LEU:HD12	1.64	1.33
25:X2:693:ILE:CB	27:Z2:7:LEU:HG	1.60	1.32
27:Z1:41:ASN:ND2	27:Z1:60:SER:N	1.77	1.32
27:Z1:387:MET:CE	27:Z1:391:SER:HB3	1.57	1.32
9:I2:960:SER:HB2	16:P3:154:ALA:C	1.53	1.32
9:I2:1175:LYS:NZ	15:O3:277:GLU:OE1	1.57	1.32
20:S1:571:ALA:HB2	21:T1:86:ASN:CB	1.58	1.32
25:X1:707:LEU:HD11	26:Y1:1306:ILE:CG1	1.58	1.32
26:Y2:1358:HIS:NE2	26:Y2:1362:LEU:HD11	1.41	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:135:LYS:NZ	27:Z1:218:LEU:HD23	1.00	1.32
27:Z2:216:LEU:HD21	27:Z2:272:ILE:CD1	1.59	1.32
27:Z2:611:GLN:C	27:Z2:611:GLN:CA	2.02	1.32
9:I1:908:ARG:CD	13:M1:552:TYR:N	1.92	1.32
9:I1:918:SER:CB	15:O1:193:ALA:H	1.40	1.32
20:S1:571:ALA:CB	21:T1:86:ASN:HB2	1.60	1.32
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD12	1.48	1.32
25:X1:742:GLN:HG3	25:X1:743:GLN:CG	1.52	1.32
25:X2:692:LYS:CA	27:Z2:431:TRP:CE2	2.12	1.32
1:A2:1228:TYR:CE2	1:A1:642:ARG:NH2	1.95	1.32
1:A2:1277:TRP:CB	1:A1:642:ARG:HH22	1.43	1.32
6:F2:137:ASN:O	9:I2:1391:THR:HB	1.26	1.32
9:I1:1051:LYS:HZ2	14:N1:290:VAL:CG2	1.40	1.32
17:Q2:922:LEU:CD2	19:R2:688:LEU:CB	2.03	1.32
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:NH2	1.89	1.32
27:Z1:129:LYS:NZ	27:Z1:185:LEU:CB	1.92	1.32
27:Z1:234:TYR:HB2	27:Z1:253:LEU:CD1	1.57	1.32
27:Z1:252:GLN:HE22	27:Z1:335:MET:N	1.24	1.32
9:I1:838:GLU:CG	15:O1:198:ARG:NE	1.90	1.32
9:I1:1048:GLU:CB	14:N1:293:LYS:NZ	1.91	1.32
9:I2:911:PRO:CB	15:O3:197:ARG:NE	1.90	1.32
18:R1:436:LEU:HA	18:R1:449:LEU:C	1.53	1.32
25:X1:797:LEU:CD2	27:Z1:687:LEU:HD21	1.60	1.32
25:X2:707:LEU:HD11	26:Y2:1306:ILE:CG1	1.58	1.32
27:Z1:13:PHE:CD1	27:Z1:445:LEU:HD23	1.63	1.32
27:Z1:26:ILE:N	27:Z1:440:MET:CE	1.90	1.32
27:Z2:252:GLN:HE22	27:Z2:335:MET:N	1.24	1.32
27:Z2:428:TYR:CZ	27:Z2:435:SER:OG	1.71	1.32
1:A3:1223:GLU:OE1	1:A4:647:GLU:N	1.58	1.31
1:A3:1401:VAL:HA	4:D3:873:GLN:NE2	1.43	1.31
17:Q1:361:TYR:O	17:Q1:511:PRO:HB3	1.16	1.31
20:S1:568:ALA:HA	21:T1:86:ASN:CG	1.53	1.31
22:U1:248:LYS:C	25:X1:805:ARG:HB3	1.51	1.31
25:X1:751:LEU:CD1	27:Z1:638:ILE:CD1	2.07	1.31
25:X2:778:LYS:HD3	25:X2:795:LYS:N	1.44	1.31
27:Z2:135:LYS:NZ	27:Z2:218:LEU:HD23	1.01	1.31
1:A2:1230:TYR:CZ	1:A1:590:SER:HA	1.14	1.31
7:G1:253:SER:HB2	13:M2:595:MET:SD	1.69	1.31
9:I1:899:LEU:O	13:M1:576:LYS:HA	1.28	1.31
9:I1:1363:GLU:OE2	15:O1:267:ALA:HA	1.19	1.31
9:I2:968:PRO:CB	14:N3:303:SER:HB3	1.58	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1255:HIS:CG	14:N3:407:ALA:HB1	1.65	1.31
18:R1:435:PHE:HD2	18:R1:448:ILE:CD1	1.42	1.31
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:N	1.45	1.31
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:HB3	1.01	1.31
9:I1:1051:LYS:CB	14:N1:293:LYS:HD3	1.59	1.31
9:I2:1308:THR:CB	14:N3:413:VAL:HG12	1.58	1.31
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CG	1.83	1.31
27:Z2:69:PHE:HD1	27:Z2:84:ASN:OD1	1.02	1.31
6:F1:139:GLN:NE2	9:I1:1340:LEU:HD11	1.45	1.31
9:I1:908:ARG:HD2	13:M1:552:TYR:CA	1.59	1.31
26:Y1:1456:LEU:C	26:Y1:1456:LEU:HB2	1.52	1.31
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CB	2.13	1.31
1:A2:1201:ARG:NE	1:A1:647:GLU:HB2	1.42	1.31
6:F1:1806:ARG:C	14:N2:412:ASN:ND2	1.85	1.31
9:I1:838:GLU:CG	15:O1:198:ARG:NH2	1.92	1.31
9:I1:917:TYR:CD1	13:M1:534:GLN:CD	1.95	1.31
9:I1:1048:GLU:HB3	14:N1:293:LYS:NZ	0.98	1.31
25:X1:637:LEU:C	26:Y1:1218:PHE:HE2	1.39	1.31
25:X2:778:LYS:NZ	25:X2:795:LYS:CE	1.91	1.31
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:CB	1.44	1.31
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:HE3	1.17	1.31
29:b2:38:GLU:OE2	29:b2:62:GLY:HA2	1.25	1.31
9:I1:1050:SER:OG	14:N1:293:LYS:CA	1.77	1.30
24:W1:666:ASN:HD21	24:W1:716:GLU:CB	1.43	1.30
25:X2:751:LEU:CD1	27:Z2:638:ILE:CD1	2.07	1.30
27:Z1:41:ASN:ND2	27:Z1:60:SER:HA	1.41	1.30
27:Z2:13:PHE:CD1	27:Z2:445:LEU:HD23	1.63	1.30
27:Z2:387:MET:CE	27:Z2:391:SER:HB3	1.58	1.30
27:Z2:389:TRP:CZ3	27:Z2:393:LEU:HD12	1.64	1.30
6:F1:161:ALA:N	9:I1:1335:LYS:HA	1.47	1.30
9:I1:1246:ILE:CG1	15:O1:255:GLY:CA	2.09	1.30
9:I2:892:HIS:CB	13:M3:591:ASP:OD2	1.78	1.30
9:I2:919:ALA:CB	16:P3:157:GLU:CA	2.08	1.30
9:I2:1050:SER:OG	14:N3:292:ARG:HG3	1.22	1.30
17:Q1:891:ILE:CD1	18:R1:715:LEU:HD21	1.62	1.30
20:S1:568:ALA:C	21:T1:86:ASN:HD21	1.38	1.30
26:Y1:1358:HIS:NE2	26:Y1:1362:LEU:HD11	1.41	1.30
27:Z1:429:ILE:HG21	27:Z1:431:TRP:NE1	1.46	1.30
27:Z2:678:ASN:HB2	27:Z2:678:ASN:N	1.44	1.30
1:A3:871:ASN:CA	4:D1:515:ASN:HB3	1.61	1.30
9:I2:1160:ILE:HD12	15:O3:263:GLN:O	1.15	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1171:GLU:CD	14:N3:427:VAL:HG11	1.55	1.30
10:J1:247:ASP:HB3	15:O1:276:GLY:CA	1.62	1.30
25:X2:774:ASN:ND2	25:X2:798:ASN:HB2	1.02	1.30
27:Z1:26:ILE:CG2	27:Z1:440:MET:CE	2.00	1.30
27:Z2:137:TYR:CD2	27:Z2:215:VAL:C	1.98	1.30
9:I1:754:ARG:NH1	13:M1:552:TYR:CD2	1.91	1.30
25:X1:789:GLU:HG2	27:Z1:680:TRP:CG	1.65	1.30
25:X2:692:LYS:HA	27:Z2:431:TRP:CD2	1.53	1.30
25:X2:774:ASN:CB	25:X2:794:ILE:O	1.79	1.30
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:CB	1.44	1.30
26:Y1:1450:GLY:CA	27:Z1:330:ASP:OD2	1.80	1.30
27:Z1:47:ASN:ND2	27:Z1:95:TRP:CH2	1.99	1.30
27:Z1:137:TYR:HB2	27:Z1:269:LYS:CD	1.60	1.30
27:Z1:252:GLN:HB3	27:Z1:335:MET:CG	1.61	1.30
27:Z2:41:ASN:ND2	27:Z2:60:SER:N	1.77	1.30
7:G2:252:LEU:C	15:O4:252:VAL:HG23	1.54	1.30
9:I1:925:LEU:CD1	15:O1:184:ARG:HB3	1.58	1.30
9:I2:1106:LYS:HB2	15:O3:275:LEU:CG	1.59	1.30
27:Z1:179:VAL:HG22	27:Z1:206:PHE:CE2	1.67	1.30
27:Z2:26:ILE:HB	27:Z2:440:MET:SD	1.60	1.30
27:Z2:31:ASN:HA	27:Z2:368:GLU:OE2	1.25	1.30
27:Z2:47:ASN:ND2	27:Z2:95:TRP:CH2	1.99	1.30
27:Z2:129:LYS:HE2	27:Z2:185:LEU:CG	1.59	1.30
27:Z2:429:ILE:HG21	27:Z2:431:TRP:NE1	1.46	1.30
1:A4:1051:THR:OG1	4:D4:1096:TYR:CE2	1.78	1.29
6:F2:143:GLY:C	9:I2:1395:LEU:HD23	1.53	1.29
9:I1:977:ASN:HB2	15:O1:174:LEU:C	1.57	1.29
9:I2:1095:TYR:CD1	15:O3:266:GLN:O	1.85	1.29
9:I2:1304:ASN:OD1	14:N3:412:ASN:C	1.75	1.29
25:X2:778:LYS:CD	25:X2:795:LYS:N	1.95	1.29
27:Z1:84:ASN:O	27:Z1:127:ILE:CD1	1.79	1.29
27:Z1:403:ASN:N	27:Z2:262:ASN:CG	1.90	1.29
27:Z2:252:GLN:HB3	27:Z2:335:MET:CG	1.61	1.29
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HD3	1.42	1.29
9:I2:915:ALA:H	15:O3:193:ALA:C	1.19	1.29
27:Z2:179:VAL:HG22	27:Z2:206:PHE:CE2	1.66	1.29
27:Z2:209:TYR:CE1	27:Z2:335:MET:CB	2.14	1.29
27:Z2:209:TYR:CB	27:Z2:210:PRO:CD	1.91	1.29
1:A2:1224:PRO:O	1:A1:648:TYR:HE2	1.12	1.29
1:A2:1225:PRO:HB2	1:A1:640:LEU:CD2	1.54	1.29
6:F1:159:ALA:O	9:I1:1335:LYS:CG	1.79	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:143:GLY:N	9:I2:1395:LEU:CD2	1.95	1.29
9:I1:1311:LEU:HD21	15:O1:266:GLN:CB	1.61	1.29
9:I2:1098:LEU:HD22	15:O3:269:ILE:CG2	1.60	1.29
22:U1:209:PRO:HG2	27:Z1:659:LYS:CA	1.41	1.29
22:U1:293:GLN:OE1	26:Y1:1367:LYS:CE	1.79	1.29
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:HG13	1.42	1.29
27:Z1:393:LEU:CD2	27:Z1:405:LEU:HD21	1.63	1.29
1:A2:1229:VAL:CG2	1:A1:639:ASN:O	1.80	1.29
9:I1:1051:LYS:HE2	14:N1:289:PHE:CE2	1.63	1.29
9:I2:1026:TYR:OH	13:M3:608:LYS:HG2	1.19	1.29
9:I2:1108:PRO:O	15:O3:281:ALA:HB2	1.12	1.29
22:U1:241:ARG:HH12	27:Z1:659:LYS:NZ	1.30	1.29
25:X2:690:GLN:HA	27:Z2:7:LEU:CD2	1.62	1.29
25:X2:699:TYR:CG	27:Z2:49:LEU:HD12	1.30	1.29
25:X2:714:PHE:CZ	26:Y2:1316:GLU:HG3	1.67	1.29
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CZ	2.10	1.29
27:Z1:189:LYS:C	27:Z1:311:GLN:CD	1.91	1.29
27:Z2:46:TYR:CD1	27:Z2:46:TYR:O	1.85	1.29
9:I2:916:ALA:HB1	15:O3:189:ARG:C	1.54	1.29
25:X2:775:THR:CA	25:X2:794:ILE:CD1	2.02	1.29
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:N	1.48	1.29
27:Z1:428:TYR:CZ	27:Z1:435:SER:OG	1.71	1.29
1:A2:1204:TRP:HE1	1:A1:599:ARG:CA	1.46	1.28
1:A3:1086:LYS:C	4:D3:1096:TYR:HE1	1.40	1.28
6:F2:143:GLY:CA	9:I2:1395:LEU:HD23	1.61	1.28
18:R1:406:GLU:HB2	18:R1:447:PHE:CD1	1.28	1.28
22:U1:209:PRO:CG	27:Z1:658:LEU:O	1.79	1.28
25:X1:793:LEU:CD2	27:Z1:680:TRP:HD1	1.45	1.28
25:X2:694:ASP:C	27:Z2:432:ASN:N	1.91	1.28
26:Y2:1211:LEU:CD1	26:Y2:1214:ILE:HD12	1.63	1.28
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CG1	1.95	1.28
27:Z2:125:SER:HB3	27:Z2:148:ASP:OD2	1.23	1.28
27:Z2:437:LEU:CD1	27:Z2:448:GLN:NE2	1.91	1.28
1:A2:1328:ARG:HH21	4:D1:898:ASP:CG	1.36	1.28
1:A2:1386:GLU:OE2	1:A1:728:LYS:CE	1.73	1.28
9:I2:1027:ALA:C	13:M3:612:PRO:O	1.75	1.28
9:I2:1255:HIS:CG	14:N3:407:ALA:CB	2.15	1.28
17:Q2:852:ILE:CD1	17:Q2:913:LYS:NZ	1.95	1.28
25:X2:788:ASP:N	25:X2:789:GLU:N	1.80	1.28
26:Y2:1450:GLY:CA	27:Z2:330:ASP:OD2	1.80	1.28
27:Z1:69:PHE:HD1	27:Z1:84:ASN:OD1	1.02	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:CG	1:A4:648:TYR:CE2	2.03	1.28
9:I2:1253:GLY:N	14:N3:409:ALA:CA	1.97	1.28
10:J2:247:ASP:CG	15:O3:279:ILE:HD11	1.59	1.28
25:X2:692:LYS:CA	27:Z2:431:TRP:CE3	2.15	1.28
26:Y1:1338:GLN:O	27:Z1:630:TRP:CH2	1.71	1.28
26:Y1:1392:ARG:NH1	27:Z1:690:ASP:HA	1.47	1.28
27:Z1:129:LYS:HZ1	27:Z1:185:LEU:CB	1.44	1.28
27:Z2:84:ASN:O	27:Z2:127:ILE:CD1	1.79	1.28
4:D1:468:LYS:HD2	1:A1:999:SER:OG	1.30	1.28
6:F1:132:THR:OG1	9:I1:1334:PRO:HD3	1.30	1.28
9:I1:1606:GLU:HG3	9:I2:1669:ARG:CZ	1.45	1.28
26:Y2:1334:LEU:HD22	27:Z1:107:ASP:C	1.59	1.28
1:A4:521:ASN:CB	4:D3:1019:ARG:NH2	1.75	1.28
1:A4:929:ASN:HD22	4:D3:468:LYS:CE	1.42	1.28
9:I2:888:GLU:OE2	13:M3:597:LYS:CB	1.79	1.28
9:I2:1048:GLU:OE2	14:N3:293:LYS:CB	1.82	1.28
9:I2:1050:SER:OG	14:N3:292:ARG:CG	1.80	1.28
9:I2:1253:GLY:CA	14:N3:410:MET:N	1.94	1.28
17:Q1:381:TYR:C	17:Q1:512:ILE:CG1	2.07	1.28
27:Z1:216:LEU:HD11	27:Z1:272:ILE:CD1	1.60	1.28
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HB	1.66	1.28
27:Z1:393:LEU:HD23	27:Z1:405:LEU:CD2	1.64	1.28
27:Z2:393:LEU:CD2	27:Z2:405:LEU:HD21	1.63	1.28
9:I2:1102:GLN:O	15:O3:276:GLY:N	1.64	1.27
22:U1:294:VAL:HG12	27:Z1:657:TYR:O	1.31	1.27
24:W1:523:ASP:CG	24:W1:738:ARG:H	1.39	1.27
25:X1:665:TRP:CZ2	27:Z1:560:LEU:HD11	1.69	1.27
25:X2:692:LYS:O	27:Z2:431:TRP:CE3	1.86	1.27
27:Z1:46:TYR:CD1	27:Z1:46:TYR:O	1.84	1.27
27:Z1:209:TYR:CE1	27:Z1:335:MET:CB	2.14	1.27
27:Z2:184:ASP:OD1	27:Z2:197:LEU:HB3	1.16	1.27
27:Z2:252:GLN:NE2	27:Z2:335:MET:N	1.81	1.27
1:A3:1099:GLN:NE2	9:I2:1416:GLY:O	1.67	1.27
6:F1:135:VAL:HG12	9:I1:1336:MET:CG	1.41	1.27
9:I1:977:ASN:ND2	15:O1:174:LEU:O	1.67	1.27
9:I1:1667:GLN:CG	9:I2:1669:ARG:CB	2.10	1.27
9:I2:813:ILE:HG22	15:O3:241:SER:CB	1.64	1.27
9:I2:982:GLN:HG2	15:O3:179:LEU:CD1	1.49	1.27
13:M3:469:GLU:OE1	13:M4:536:GLU:HB2	1.16	1.27
13:M3:469:GLU:OE1	13:M4:536:GLU:CB	1.80	1.27
27:Z1:129:LYS:HE2	27:Z1:185:LEU:CG	1.59	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:116:ILE:CD1	27:Z2:125:SER:O	1.82	1.27
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HB	1.67	1.27
27:Z2:393:LEU:HD23	27:Z2:405:LEU:CD2	1.64	1.27
27:Z2:642:ASN:CA	27:Z2:643:SER:H	1.48	1.27
9:I1:917:TYR:CE1	13:M1:534:GLN:OE1	1.86	1.27
9:I2:1168:ALA:HB2	15:O3:270:THR:N	0.95	1.27
18:R1:436:LEU:CA	18:R1:449:LEU:O	1.82	1.27
24:W1:526:ARG:O	24:W1:744:VAL:N	1.68	1.27
25:X1:714:PHE:CZ	26:Y1:1316:GLU:HG3	1.67	1.27
25:X1:742:GLN:CD	25:X1:743:GLN:CG	2.02	1.27
25:X2:692:LYS:C	27:Z2:431:TRP:CE3	2.12	1.27
27:Z1:184:ASP:OD1	27:Z1:197:LEU:HB3	1.16	1.27
27:Z1:387:MET:CE	27:Z1:391:SER:CB	2.12	1.27
27:Z1:404:PRO:CD	27:Z2:262:ASN:HB3	1.62	1.27
27:Z2:35:ILE:CD1	27:Z2:429:ILE:HD12	1.65	1.27
1:A3:1086:LYS:CA	4:D3:1096:TYR:CE1	2.12	1.27
7:G2:252:LEU:O	15:O4:252:VAL:HG23	1.10	1.27
9:I2:977:ASN:O	15:O3:174:LEU:CA	1.81	1.27
22:U1:291:ASN:O	25:X1:805:ARG:NH2	1.65	1.27
22:U1:297:LEU:C	27:Z1:654:ASP:N	1.91	1.27
25:X2:665:TRP:CZ2	27:Z2:560:LEU:HD11	1.69	1.27
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:HB2	1.62	1.27
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HB	1.69	1.27
1:A2:1224:PRO:CG	1:A1:648:TYR:CZ	2.18	1.27
9:I2:902:GLN:CB	13:M3:580:LYS:CB	1.76	1.27
9:I2:1253:GLY:N	14:N3:409:ALA:N	1.82	1.27
25:X2:693:ILE:HD12	27:Z2:7:LEU:CG	1.62	1.27
25:X2:822:LYS:CB	27:Z1:262:ASN:ND2	1.98	1.27
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CE2	2.16	1.27
26:Y2:1317:TYR:CE1	27:Z1:48:VAL:C	2.12	1.27
26:Y2:1392:ARG:NH1	27:Z2:690:ASP:HA	1.47	1.27
27:Z1:116:ILE:CD1	27:Z1:125:SER:O	1.82	1.27
27:Z1:252:GLN:NE2	27:Z1:335:MET:N	1.80	1.27
27:Z1:393:LEU:CD2	27:Z1:405:LEU:CD2	2.13	1.27
27:Z1:640:GLN:CA	27:Z1:640:GLN:C	2.08	1.27
27:Z2:216:LEU:HD11	27:Z2:272:ILE:CD1	1.60	1.27
29:b1:56:THR:C	29:b1:56:THR:CB	2.06	1.27
1:A4:521:ASN:HB2	4:D3:1019:ARG:NH2	0.95	1.26
1:A4:715:GLU:CB	4:D3:973:GLN:NE2	1.92	1.26
9:I1:1048:GLU:CB	14:N1:293:LYS:HZ1	1.48	1.26
9:I1:1246:ILE:HD11	15:O1:255:GLY:CA	1.63	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1606:GLU:OE2	9:I2:1669:ARG:CD	1.80	1.26
9:I2:1095:TYR:HE1	15:O3:267:ALA:C	1.29	1.26
9:I2:1253:GLY:HA2	14:N3:410:MET:N	1.49	1.26
17:Q1:444:GLU:O	17:Q1:504:PHE:HA	1.30	1.26
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:CE	2.12	1.26
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CE2	2.12	1.26
26:Y2:1321:MET:CA	27:Z1:47:ASN:O	1.82	1.26
27:Z1:35:ILE:CD1	27:Z1:429:ILE:HD12	1.65	1.26
27:Z2:129:LYS:NZ	27:Z2:185:LEU:CB	1.92	1.26
27:Z2:188:SER:CB	27:Z2:195:TYR:HE2	1.48	1.26
27:Z2:640:GLN:C	27:Z2:640:GLN:CA	2.08	1.26
1:A1:827:ILE:CG2	1:A1:849:SER:C	2.08	1.26
1:A2:1331:GLU:HB3	4:D1:899:THR:O	1.33	1.26
7:G2:254:ASN:ND2	15:O4:256:TYR:HB2	1.49	1.26
9:I1:980:ILE:HD13	15:O1:175:SER:N	1.46	1.26
22:U1:209:PRO:HG2	27:Z1:659:LYS:N	1.50	1.26
22:U1:296:LEU:CA	27:Z1:657:TYR:CB	2.04	1.26
25:X1:658:TYR:CD2	27:Z1:549:ILE:HD13	1.69	1.26
25:X1:789:GLU:HG2	27:Z1:680:TRP:CE2	1.70	1.26
25:X2:694:ASP:CB	27:Z2:431:TRP:C	2.08	1.26
25:X2:778:LYS:CG	25:X2:795:LYS:N	1.94	1.26
26:Y2:1294:LYS:CD	27:Z2:588:TRP:CD1	2.18	1.26
26:Y2:1332:LYS:CA	27:Z1:109:PHE:CE1	2.17	1.26
27:Z1:24:ARG:NE	27:Z1:440:MET:HB3	1.50	1.26
27:Z2:27:PHE:CE2	27:Z2:36:VAL:HG21	1.46	1.26
27:Z2:216:LEU:CD1	27:Z2:272:ILE:CD1	2.05	1.26
1:A2:1224:PRO:O	1:A1:648:TYR:CE2	1.89	1.26
6:F1:141:ALA:CB	9:I1:1390:PHE:CD2	2.19	1.26
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HB3	1.37	1.26
10:J1:249:ASP:HB3	15:O1:272:SER:O	1.29	1.26
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CE	1.97	1.26
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CZ	2.10	1.26
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:CE	2.12	1.26
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CE2	2.12	1.26
27:Z1:188:SER:CB	27:Z1:195:TYR:HE2	1.48	1.26
27:Z2:294:LEU:HD21	27:Z2:353:ARG:NH2	1.49	1.26
9:I1:906:GLY:CA	13:M1:572:GLU:HG3	1.62	1.26
9:I2:964:SER:H	16:P3:152:LYS:CB	1.47	1.26
10:J1:250:THR:OG1	15:O1:277:GLU:CB	1.67	1.26
18:R1:406:GLU:CB	18:R1:447:PHE:CD1	2.18	1.26
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CE2	2.16	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:CG	1:A4:647:GLU:HB2	1.66	1.26
1:A4:827:ILE:CG2	1:A4:849:SER:N	1.98	1.26
1:A4:827:ILE:CG2	1:A4:849:SER:C	2.08	1.26
7:G2:254:ASN:HD22	15:O4:256:TYR:CB	1.47	1.26
9:I2:959:SER:O	16:P3:151:LYS:HG2	1.28	1.26
22:U1:248:LYS:C	25:X1:805:ARG:CB	2.03	1.26
25:X1:662:ILE:CD1	27:Z1:549:ILE:HG23	1.65	1.26
25:X1:751:LEU:HD13	27:Z1:638:ILE:CD1	1.65	1.26
25:X2:690:GLN:C	27:Z2:7:LEU:HD23	1.61	1.26
25:X2:775:THR:CA	25:X2:794:ILE:HD13	1.64	1.26
26:Y2:1211:LEU:O	26:Y2:1215:GLU:HG2	1.33	1.26
26:Y2:1321:MET:CA	27:Z1:51:ASP:HB2	1.63	1.26
27:Z1:216:LEU:HD21	27:Z1:272:ILE:CD1	1.60	1.26
27:Z1:541:LYS:CE	27:Z2:553:ILE:HG13	1.64	1.26
27:Z1:641:PHE:CZ	27:Z1:645:VAL:HG22	1.71	1.26
1:A3:1084:ARG:HA	4:D3:1095:ARG:CD	1.65	1.25
6:F2:132:THR:HG21	9:I2:1334:PRO:CA	1.66	1.25
25:X2:692:LYS:CB	27:Z2:431:TRP:CH2	2.19	1.25
25:X2:695:GLN:CB	27:Z2:431:TRP:CE3	2.19	1.25
26:Y2:1332:LYS:HA	27:Z1:109:PHE:CE1	1.71	1.25
27:Z2:27:PHE:CZ	27:Z2:36:VAL:CG2	2.06	1.25
1:A3:1223:GLU:O	1:A4:594:LEU:HD23	1.10	1.25
18:R1:402:GLY:N	18:R1:444:ALA:CB	1.96	1.25
22:U1:296:LEU:HA	27:Z1:657:TYR:CB	1.40	1.25
25:X2:658:TYR:CD2	27:Z2:549:ILE:HD13	1.70	1.25
26:Y1:1294:LYS:CD	27:Z1:588:TRP:CD1	2.17	1.25
27:Z2:625:HIS:NE2	27:Z2:628:MET:CB	1.99	1.25
29:b1:63:LYS:HD3	29:b1:83:PRO:O	1.30	1.25
1:A1:827:ILE:HG21	1:A1:849:SER:C	1.61	1.25
4:D1:673:LEU:CD1	1:A1:1094:ILE:HG12	1.65	1.25
6:F1:166:THR:HB	9:I1:1331:LYS:NZ	1.48	1.25
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CZ	1.72	1.25
6:F2:137:ASN:O	9:I2:1391:THR:CB	1.83	1.25
7:G2:249:ASP:CA	15:O4:251:ILE:CG1	2.03	1.25
9:I2:976:ARG:NH2	14:N3:293:LYS:HG3	1.37	1.25
9:I2:976:ARG:NE	14:N3:293:LYS:CG	2.00	1.25
9:I2:1031:ALA:HB1	13:M3:621:ARG:CZ	1.66	1.25
9:I2:1253:GLY:C	14:N3:409:ALA:N	1.94	1.25
10:J2:249:ASP:OD2	14:N3:431:VAL:HG12	1.36	1.25
14:N3:267:GLU:CB	14:N4:334:LEU:O	1.80	1.25
25:X1:711:LEU:HD21	26:Y1:1309:ASP:OD2	1.07	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:648:LEU:CD1	27:Z2:535:PHE:CE1	2.18	1.25
25:X2:694:ASP:HB3	27:Z2:431:TRP:O	1.17	1.25
22:U1:297:LEU:HA	27:Z1:654:ASP:OD1	1.36	1.25
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:HH21	1.48	1.25
27:Z1:69:PHE:CD1	27:Z1:84:ASN:OD1	1.90	1.25
27:Z1:209:TYR:CB	27:Z1:210:PRO:CD	1.91	1.25
9:I2:1103:LEU:HB3	13:M3:614:ASP:CB	1.66	1.25
27:Z1:294:LEU:HD21	27:Z1:353:ARG:NH2	1.49	1.25
27:Z1:297:TYR:CZ	27:Z1:321:ASP:OD1	1.89	1.25
27:Z2:297:TYR:CZ	27:Z2:321:ASP:OD1	1.89	1.25
29:b1:16:ILE:CG1	29:b1:21:LYS:HG3	1.61	1.25
1:A3:1204:TRP:CZ3	1:A4:647:GLU:O	1.82	1.25
6:F1:138:ILE:CA	9:I1:1388:GLU:O	1.83	1.25
25:X1:637:LEU:N	26:Y1:1218:PHE:CE2	2.03	1.25
27:Z1:223:LEU:HD11	27:Z1:263:TRP:NE1	0.94	1.25
27:Z1:401:ASP:OD1	27:Z2:260:HIS:C	1.80	1.25
27:Z1:544:THR:OG1	27:Z2:555:GLU:HA	1.08	1.25
27:Z1:642:ASN:CA	27:Z1:643:SER:H	1.48	1.25
27:Z2:137:TYR:HB2	27:Z2:269:LYS:CD	1.60	1.25
27:Z2:223:LEU:HD11	27:Z2:263:TRP:NE1	0.94	1.25
1:A1:827:ILE:CG2	1:A1:849:SER:N	1.98	1.25
9:I1:896:PRO:HB3	13:M1:583:ASP:CB	1.48	1.25
9:I1:906:GLY:HA2	13:M1:572:GLU:CG	1.65	1.25
9:I2:963:LEU:HD13	16:P3:147:LEU:O	1.32	1.25
10:J1:252:LEU:HD13	15:O1:273:ASP:CB	1.65	1.25
25:X1:742:GLN:CG	25:X1:743:GLN:CA	2.14	1.25
25:X2:751:LEU:HD13	27:Z2:638:ILE:CD1	1.64	1.25
26:Y1:1225:PHE:CE2	27:Z1:539:ILE:HG12	1.14	1.25
27:Z1:137:TYR:CD2	27:Z1:215:VAL:C	1.98	1.25
27:Z2:69:PHE:CD1	27:Z2:84:ASN:OD1	1.89	1.25
27:Z2:217:LEU:HD23	27:Z2:269:LYS:CD	1.58	1.25
1:A3:1332:ARG:NH2	4:D3:899:THR:O	1.67	1.24
6:F1:139:GLN:NE2	9:I1:1336:MET:SD	2.08	1.24
9:I1:976:ARG:N	14:N1:301:LEU:HD21	0.91	1.24
9:I2:923:GLY:HA3	15:O3:190:ARG:NH2	1.49	1.24
17:Q1:385:THR:HG23	17:Q1:507:ILE:CG2	1.44	1.24
22:U1:288:LEU:O	25:X1:797:LEU:N	1.68	1.24
25:X1:811:SER:OG	27:Z1:701:LEU:CD1	1.85	1.24
26:Y1:1435:LYS:CE	27:Z1:225:LEU:HD23	1.67	1.24
26:Y2:1367:LYS:N	26:Y2:1383:ALA:CB	2.00	1.24
26:Y2:1382:VAL:HG11	26:Y2:1385:LEU:CB	1.65	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:216:LEU:CD1	27:Z1:272:ILE:CD1	2.05	1.24
27:Z2:137:TYR:CD2	27:Z2:215:VAL:O	1.89	1.24
1:A2:1275:PRO:HD2	1:A1:726:ALA:CB	1.57	1.24
25:X1:655:PHE:CZ	27:Z1:545:LEU:CB	2.20	1.24
25:X2:692:LYS:CA	27:Z2:431:TRP:CZ3	2.20	1.24
27:Z1:27:PHE:CE2	27:Z1:36:VAL:HG21	1.46	1.24
27:Z1:137:TYR:CD2	27:Z1:215:VAL:O	1.88	1.24
27:Z1:540:VAL:O	27:Z2:555:GLU:HG3	1.19	1.24
27:Z2:35:ILE:HG13	27:Z2:46:TYR:OH	1.27	1.24
27:Z2:387:MET:CE	27:Z2:391:SER:CB	2.12	1.24
9:I1:1051:LYS:CB	14:N1:293:LYS:CE	2.13	1.24
9:I2:914:ASN:HA	15:O3:194:GLU:N	1.51	1.24
9:I2:1304:ASN:OD1	14:N3:412:ASN:CA	1.76	1.24
25:X1:644:TRP:C	27:Z1:535:PHE:HZ	1.32	1.24
25:X1:648:LEU:CD1	27:Z1:535:PHE:CE1	2.18	1.24
25:X1:707:LEU:CD1	26:Y1:1306:ILE:HG12	1.66	1.24
25:X2:697:LEU:O	25:X2:701:GLU:HG3	1.35	1.24
27:Z1:24:ARG:HH21	27:Z1:440:MET:CG	1.41	1.24
27:Z1:223:LEU:HD11	27:Z1:263:TRP:CE2	1.73	1.24
9:I1:967:SER:CB	15:O1:178:ASP:HA	1.60	1.24
9:I2:1160:ILE:CD1	15:O3:263:GLN:O	1.85	1.24
22:U1:289:GLN:NE2	25:X1:794:ILE:HG12	1.50	1.24
25:X1:815:GLU:CA	26:Y1:1402:LEU:HD21	1.67	1.24
25:X2:693:ILE:CD1	27:Z2:7:LEU:HD12	1.66	1.24
25:X2:726:VAL:C	25:X2:726:VAL:CA	2.10	1.24
26:Y1:1277:LYS:CE	27:Z1:571:ILE:HG13	1.67	1.24
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:NZ	2.00	1.24
27:Z1:57:LEU:CD2	27:Z1:109:PHE:HD2	1.51	1.24
27:Z2:57:LEU:CD2	27:Z2:109:PHE:CD2	2.21	1.24
27:Z2:287:ILE:CD1	27:Z2:348:LEU:HD12	1.67	1.24
1:A2:1229:VAL:CB	1:A1:640:LEU:HA	1.50	1.24
9:I2:887:GLN:NE2	13:M3:597:LYS:NZ	1.86	1.24
9:I2:976:ARG:HE	14:N3:293:LYS:CG	1.48	1.24
9:I2:1171:GLU:OE2	14:N3:427:VAL:HG11	1.26	1.24
22:U1:294:VAL:CG1	27:Z1:657:TYR:O	1.84	1.24
22:U1:296:LEU:HD12	27:Z1:653:GLN:O	1.36	1.24
26:Y2:1211:LEU:C	26:Y2:1215:GLU:OE1	1.81	1.24
27:Z1:188:SER:CB	27:Z1:195:TYR:CE2	2.20	1.24
1:A4:1094:ILE:CG2	4:D3:675:LEU:HD21	1.68	1.23
6:F2:1267:ARG:HH12	15:O4:262:ASP:CB	1.41	1.23
9:I1:912:VAL:HG23	15:O1:198:ARG:NH1	1.50	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:925:LEU:HD13	15:O1:184:ARG:CB	1.68	1.23
9:I1:1606:GLU:HG2	9:I2:1669:ARG:NH2	1.49	1.23
9:I2:976:ARG:CB	14:N3:297:ALA:CA	2.06	1.23
17:Q2:929:LEU:HB3	19:R2:714:TYR:OH	1.13	1.23
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CA	2.00	1.23
26:Y2:1277:LYS:CE	27:Z2:571:ILE:HG13	1.67	1.23
27:Z1:27:PHE:CZ	27:Z1:36:VAL:CG2	2.06	1.23
27:Z1:57:LEU:CD2	27:Z1:109:PHE:CD2	2.21	1.23
27:Z1:325:ILE:CG2	27:Z1:350:LEU:CD1	2.15	1.23
27:Z2:192:LEU:HD11	27:Z2:226:ILE:CD1	1.68	1.23
9:I2:1171:GLU:OE2	14:N3:427:VAL:CG1	1.86	1.23
17:Q2:891:ILE:CD1	19:R2:715:LEU:CD2	1.85	1.23
25:X1:776:PHE:CE1	25:X1:795:LYS:HD3	1.72	1.23
25:X2:655:PHE:CZ	27:Z2:545:LEU:CB	2.20	1.23
25:X2:788:ASP:N	25:X2:788:ASP:O	1.66	1.23
27:Z2:57:LEU:CD2	27:Z2:109:PHE:HD2	1.51	1.23
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HB	1.70	1.23
27:Z2:611:GLN:O	27:Z2:612:ILE:CA	1.86	1.23
29:b1:82:GLY:O	29:b1:83:PRO:CD	1.83	1.23
7:G1:252:LEU:CD2	15:O2:244:GLU:CG	2.16	1.23
9:I1:918:SER:CA	15:O1:193:ALA:H	1.52	1.23
9:I1:1050:SER:OG	14:N1:293:LYS:HA	1.14	1.23
25:X2:811:SER:O	26:Y2:1402:LEU:HD11	1.06	1.23
26:Y1:1285:ASN:O	26:Y1:1289:GLN:HG2	1.39	1.23
26:Y1:1383:ALA:N	26:Y2:1364:ASN:CG	1.95	1.23
26:Y2:1400:LYS:O	26:Y2:1404:GLU:HG3	1.38	1.23
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CA	2.00	1.23
1:A2:1228:TYR:CZ	1:A1:642:ARG:NE	2.06	1.23
1:A3:1223:GLU:CB	1:A4:648:TYR:CG	2.00	1.23
1:A4:827:ILE:HG21	1:A4:849:SER:C	1.61	1.23
7:G1:249:ASP:N	15:O2:247:TRP:CZ2	2.07	1.23
9:I2:1025:LEU:O	13:M3:613:ASP:CB	1.86	1.23
22:U1:289:GLN:OE1	25:X1:794:ILE:HG12	1.36	1.23
25:X2:662:ILE:CD1	27:Z2:549:ILE:HG23	1.65	1.23
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:HE2	1.66	1.23
26:Y2:1435:LYS:CE	27:Z2:225:LEU:HD23	1.67	1.23
27:Z1:35:ILE:CD1	27:Z1:429:ILE:CD1	2.17	1.23
27:Z1:69:PHE:HA	27:Z1:84:ASN:ND2	0.92	1.23
27:Z2:35:ILE:CB	27:Z2:46:TYR:CE2	2.22	1.23
27:Z2:55:HIS:CE1	27:Z2:98:SER:OG	1.92	1.23
27:Z2:325:ILE:CG2	27:Z2:350:LEU:CD1	2.15	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1274:ASP:O	1:A1:642:ARG:NH1	1.71	1.23
1:A3:1401:VAL:HA	4:D3:873:GLN:CD	1.31	1.23
6:F1:158:PRO:HG2	9:I1:1339:LEU:N	1.51	1.23
6:F2:158:PRO:CB	9:I2:1337:ALA:HB1	1.69	1.23
9:I2:981:VAL:CG2	15:O3:175:SER:CB	2.16	1.23
25:X1:807:LEU:CD2	27:Z1:698:ASN:HA	1.67	1.23
25:X2:811:SER:OG	27:Z2:701:LEU:CD1	1.85	1.23
26:Y1:1122:ILE:HG12	29:b1:67:SER:OG	1.33	1.23
26:Y1:1371:VAL:O	26:Y1:1372:LYS:CA	1.86	1.23
27:Z2:69:PHE:HA	27:Z2:84:ASN:ND2	0.91	1.23
27:Z2:393:LEU:CD2	27:Z2:405:LEU:CD2	2.13	1.23
27:Z2:679:GLU:CA	27:Z2:679:GLU:N	2.01	1.23
29:b2:16:ILE:CD1	29:b2:77:VAL:CG1	2.15	1.23
1:A4:172:PRO:CB	4:D3:991:ASP:OD2	1.87	1.22
9:I1:966:TRP:CA	15:O1:181:HIS:N	1.70	1.22
9:I2:1030:ARG:H	13:M3:612:PRO:C	1.46	1.22
17:Q1:448:SER:CB	17:Q1:546:ILE:HG21	1.68	1.22
25:X2:685:MET:N	27:Z2:445:LEU:O	1.72	1.22
25:X2:788:ASP:N	25:X2:788:ASP:CB	2.01	1.22
25:X2:815:GLU:CA	26:Y2:1402:LEU:HD21	1.67	1.22
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:HB2	1.68	1.22
27:Z1:55:HIS:CE1	27:Z1:98:SER:OG	1.92	1.22
27:Z1:244:ILE:HG13	27:Z1:344:TYR:OH	1.33	1.22
27:Z2:641:PHE:CZ	27:Z2:645:VAL:HG22	1.71	1.22
1:A2:1230:TYR:CE1	1:A1:590:SER:HA	1.72	1.22
1:A3:871:ASN:HB3	4:D1:515:ASN:ND2	1.51	1.22
1:A3:871:ASN:HA	4:D1:515:ASN:CB	1.66	1.22
1:A3:1220:PRO:CB	1:A4:595:GLU:OE1	1.80	1.22
9:I1:1246:ILE:CD1	15:O1:255:GLY:HA2	1.69	1.22
9:I2:888:GLU:OE2	13:M3:597:LYS:HB2	1.10	1.22
9:I2:928:LEU:CD1	15:O3:180:ASP:N	1.93	1.22
9:I2:1095:TYR:CE1	15:O3:266:GLN:C	2.16	1.22
9:I2:1103:LEU:CG	13:M3:611:LYS:HB3	1.68	1.22
25:X2:692:LYS:CA	27:Z2:431:TRP:CZ2	2.22	1.22
26:Y2:1362:LEU:CG	26:Y2:1387:LYS:CE	2.07	1.22
27:Z1:192:LEU:HD11	27:Z1:226:ILE:CD1	1.68	1.22
27:Z1:209:TYR:CB	27:Z1:210:PRO:HD3	1.60	1.22
27:Z1:288:ASN:O	27:Z1:289:PRO:C	1.80	1.22
29:b1:16:ILE:HG13	29:b1:21:LYS:CG	1.67	1.22
1:A2:1328:ARG:HD3	4:D1:976:ARG:NE	0.90	1.22
9:I1:838:GLU:HG3	15:O1:198:ARG:NE	1.49	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1253:GLY:N	14:N3:409:ALA:HB3	1.52	1.22
22:U1:192:ILE:CA	27:Z1:664:ARG:HG3	1.67	1.22
25:X1:721:LEU:HD11	26:Y1:1316:GLU:OE1	1.06	1.22
25:X2:644:TRP:C	27:Z2:535:PHE:HZ	1.32	1.22
25:X2:692:LYS:O	27:Z2:431:TRP:CZ3	1.93	1.22
25:X2:707:LEU:CD1	26:Y2:1306:ILE:HG12	1.66	1.22
25:X2:822:LYS:HB3	27:Z1:262:ASN:CG	1.63	1.22
27:Z1:57:LEU:HD22	27:Z1:109:PHE:CE2	1.74	1.22
27:Z1:287:ILE:CD1	27:Z1:348:LEU:HD12	1.67	1.22
27:Z2:35:ILE:CD1	27:Z2:429:ILE:CD1	2.17	1.22
27:Z2:223:LEU:HD11	27:Z2:263:TRP:CE2	1.73	1.22
7:G1:250:THR:OG1	15:O2:247:TRP:CZ3	1.90	1.22
9:I1:917:TYR:OH	13:M1:534:GLN:O	1.58	1.22
9:I2:1103:LEU:HB2	13:M3:611:LYS:NZ	1.53	1.22
25:X2:695:GLN:OE1	27:Z2:48:VAL:HG21	1.06	1.22
25:X2:807:LEU:CD2	27:Z2:698:ASN:HA	1.67	1.22
27:Z1:184:ASP:CG	27:Z1:197:LEU:HB3	1.65	1.22
27:Z2:184:ASP:CG	27:Z2:197:LEU:HB3	1.65	1.22
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CE2	2.23	1.22
29:b2:36:GLN:O	29:b2:36:GLN:CG	1.84	1.22
1:A3:1086:LYS:C	4:D3:1096:TYR:CE1	2.17	1.22
1:A3:1200:ARG:HB3	1:A4:591:ASP:CG	1.65	1.22
1:A3:1402:ASP:C	4:D3:824:ARG:CD	2.13	1.22
6:F1:161:ALA:C	9:I1:1335:LYS:N	1.79	1.22
9:I2:919:ALA:HB3	16:P3:157:GLU:CG	1.70	1.22
9:I2:1253:GLY:N	14:N3:409:ALA:CB	2.03	1.22
22:U1:204:VAL:C	27:Z1:668:GLU:CD	2.06	1.22
22:U1:209:PRO:HD3	27:Z1:662:LEU:N	1.53	1.22
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:CD2	1.69	1.22
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CD1	2.13	1.22
27:Z2:23:PRO:N	27:Z2:23:PRO:O	1.73	1.22
7:G2:249:ASP:HA	15:O4:251:ILE:CD1	1.71	1.21
9:I1:967:SER:OG	15:O1:178:ASP:HA	1.06	1.21
9:I1:1048:GLU:CD	15:O1:171:ASP:H	1.48	1.21
9:I1:1051:LYS:CB	14:N1:293:LYS:CD	2.17	1.21
9:I1:1246:ILE:CD1	15:O1:255:GLY:CA	2.17	1.21
9:I2:809:HIS:HD2	15:O3:243:LEU:CA	1.53	1.21
25:X2:695:GLN:NE2	27:Z2:429:ILE:CG2	2.04	1.21
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:CD2	1.69	1.21
27:Z2:23:PRO:C	27:Z2:23:PRO:CA	2.13	1.21
6:F1:135:VAL:O	9:I1:1392:VAL:HG11	1.25	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1049:LEU:CB	14:N3:293:LYS:CA	2.08	1.21
10:J1:247:ASP:OD2	15:O1:276:GLY:CA	1.85	1.21
25:X1:778:LYS:O	25:X1:778:LYS:HG3	1.39	1.21
25:X2:692:LYS:CA	27:Z2:431:TRP:CH2	2.23	1.21
26:Y2:1285:ASN:O	26:Y2:1289:GLN:HG2	1.38	1.21
26:Y2:1332:LYS:CA	27:Z1:109:PHE:HZ	1.42	1.21
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:NZ	2.00	1.21
27:Z1:404:PRO:HA	27:Z2:271:ASP:OD2	1.34	1.21
27:Z2:582:GLU:OE2	27:Z2:586:LYS:CE	1.87	1.21
29:b2:75:HIS:CE1	29:b2:90:LYS:HD3	1.75	1.21
9:I1:908:ARG:HG3	15:O1:209:LEU:CD1	1.71	1.21
9:I1:918:SER:CA	15:O1:193:ALA:N	2.03	1.21
9:I1:1359:ASP:OD1	15:O1:264:ILE:CD1	1.87	1.21
9:I2:1033:PRO:HG3	13:M3:616:LEU:C	1.65	1.21
9:I2:1109:LEU:HB3	15:O3:284:LYS:NZ	1.52	1.21
25:X1:789:GLU:OE2	25:X1:793:LEU:HD11	1.06	1.21
26:Y2:1368:LEU:N	26:Y2:1383:ALA:HB2	1.55	1.21
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CE1	1.94	1.21
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CE2	2.23	1.21
27:Z1:582:GLU:OE2	27:Z1:586:LYS:CE	1.88	1.21
1:A2:1203:TYR:HB2	1:A1:595:GLU:OE2	1.04	1.21
1:A2:1221:ILE:HG12	1:A1:596:ARG:CG	1.71	1.21
1:A2:1313:LYS:HZ3	1:A1:728:LYS:NZ	1.37	1.21
1:A4:127:HIS:NE2	4:D3:1006:ASP:C	1.85	1.21
9:I2:892:HIS:HB2	13:M3:591:ASP:CG	1.48	1.21
25:X1:697:LEU:O	25:X1:701:GLU:HG3	1.34	1.21
27:Z1:541:LYS:HD2	27:Z2:549:ILE:O	1.33	1.21
4:D1:673:LEU:CD1	1:A1:1094:ILE:CD1	2.19	1.21
4:D1:673:LEU:HD11	1:A1:1094:ILE:CG1	1.70	1.21
7:G1:252:LEU:CD2	15:O2:244:GLU:HG3	1.70	1.21
9:I1:980:ILE:CD1	15:O1:175:SER:H	1.52	1.21
9:I2:976:ARG:CB	14:N3:297:ALA:HB2	1.67	1.21
9:I2:1031:ALA:CB	13:M3:621:ARG:NH1	2.04	1.21
22:U1:241:ARG:NH1	27:Z1:659:LYS:NZ	1.86	1.21
26:Y2:1126:LEU:CD2	29:b2:63:LYS:O	1.88	1.21
27:Z1:217:LEU:HD23	27:Z1:269:LYS:CD	1.58	1.21
27:Z1:381:ILE:O	27:Z1:417:ILE:HG12	1.03	1.21
27:Z1:541:LYS:NZ	27:Z2:549:ILE:O	1.73	1.21
29:b1:55:ASN:N	29:b1:55:ASN:HA	1.32	1.21
1:A3:1204:TRP:CE3	1:A4:647:GLU:O	1.93	1.20
9:I1:978:LYS:HG2	15:O1:176:ARG:NH1	1.56	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1359:ASP:OD1	15:O1:264:ILE:HD13	1.05	1.20
9:I2:814:SER:OG	15:O3:245:GLU:OE2	1.57	1.20
25:X1:790:ASN:N	27:Z1:669:THR:O	1.72	1.20
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CB	2.17	1.20
27:Z1:35:ILE:CB	27:Z1:46:TYR:CE2	2.22	1.20
27:Z1:451:SER:C	27:Z1:451:SER:CA	2.12	1.20
1:A3:1084:ARG:HA	4:D3:1095:ARG:NE	1.52	1.20
9:I1:918:SER:HB2	15:O1:193:ALA:H	1.05	1.20
25:X2:711:LEU:HD21	26:Y2:1309:ASP:OD2	1.07	1.20
25:X2:721:LEU:HD11	26:Y2:1316:GLU:OE1	1.06	1.20
26:Y1:1409:LEU:CB	27:Z1:711:LYS:HZ3	1.55	1.20
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:CE	1.69	1.20
27:Z1:24:ARG:NH2	27:Z1:440:MET:CB	2.04	1.20
27:Z2:57:LEU:HD22	27:Z2:109:PHE:CE2	1.74	1.20
27:Z2:188:SER:CB	27:Z2:195:TYR:CE2	2.20	1.20
29:b1:78:TYR:CD1	29:b1:87:LEU:HD23	1.76	1.20
9:I1:963:LEU:HD12	15:O1:182:THR:HG21	1.22	1.20
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:CD1	1.70	1.20
26:Y2:1316:GLU:CD	27:Z2:609:LEU:HD22	1.66	1.20
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HA	1.69	1.20
27:Z1:314:ILE:HD12	27:Z1:386:PHE:CE2	1.76	1.20
27:Z1:544:THR:HA	27:Z2:558:PHE:CD2	1.77	1.20
27:Z2:27:PHE:CE1	27:Z2:36:VAL:CG1	2.10	1.20
27:Z2:244:ILE:HG13	27:Z2:344:TYR:OH	1.33	1.20
29:b1:78:TYR:CD1	29:b1:87:LEU:CD2	2.24	1.20
9:I2:977:ASN:H	15:O3:174:LEU:CD2	1.44	1.20
9:I2:1099:ARG:CA	15:O3:272:SER:HB3	1.68	1.20
9:I2:1108:PRO:C	15:O3:281:ALA:HB2	1.67	1.20
26:Y2:1370:THR:HG22	27:Z2:662:LEU:HD21	1.24	1.20
27:Z1:213:PRO:HD2	27:Z1:216:LEU:CD2	1.72	1.20
1:A2:1226:LEU:HD21	1:A1:647:GLU:N	1.54	1.20
6:F2:1267:ARG:NH1	15:O4:262:ASP:HB2	0.88	1.20
9:I2:907:VAL:O	13:M3:576:LYS:HG2	1.39	1.20
18:R1:409:LYS:HZ2	18:R1:448:ILE:CA	1.53	1.20
22:U1:241:ARG:HB3	27:Z1:656:SER:HB2	1.22	1.20
22:U1:243:PHE:CD2	27:Z1:660:SER:OG	1.95	1.20
25:X1:811:SER:O	26:Y1:1402:LEU:HD11	1.06	1.20
25:X2:774:ASN:CA	25:X2:797:LEU:HD11	1.70	1.20
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:HZ	1.41	1.20
27:Z2:31:ASN:CA	27:Z2:368:GLU:OE2	1.90	1.20
27:Z2:93:VAL:O	27:Z2:94:PRO:HD2	1.15	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:123:PRO:CA	27:Z2:123:PRO:O	1.88	1.20
6:F1:1265:GLN:HA	15:O2:252:VAL:CA	1.44	1.19
9:I1:838:GLU:C	15:O1:198:ARG:HH21	1.40	1.19
9:I1:897:GLU:CA	13:M1:580:LYS:HG3	1.43	1.19
9:I1:1357:LYS:NZ	15:O1:263:GLN:CG	1.92	1.19
25:X1:644:TRP:O	27:Z1:535:PHE:HZ	1.24	1.19
25:X2:693:ILE:CD1	27:Z2:7:LEU:CD1	2.18	1.19
25:X2:823:LYS:HG2	27:Z1:270:VAL:CG1	1.69	1.19
26:Y1:1435:LYS:CE	27:Z1:225:LEU:CD2	2.21	1.19
27:Z1:84:ASN:O	27:Z1:127:ILE:HD11	1.03	1.19
27:Z2:84:ASN:O	27:Z2:127:ILE:HD11	1.03	1.19
1:A3:1223:GLU:HG2	1:A4:647:GLU:HB2	1.24	1.19
9:I2:843:GLU:OE1	15:O3:191:ARG:HD2	1.03	1.19
9:I2:888:GLU:HA	13:M3:590:LYS:O	1.42	1.19
9:I2:895:ARG:NH1	13:M3:586:ASP:OD1	1.74	1.19
25:X1:751:LEU:HD13	27:Z1:638:ILE:CG1	1.72	1.19
25:X2:665:TRP:NE1	26:Y2:1267:GLU:CB	2.04	1.19
25:X2:693:ILE:CG1	27:Z2:7:LEU:HG	1.72	1.19
26:Y1:1316:GLU:CD	27:Z1:609:LEU:HD22	1.66	1.19
26:Y2:1431:MET:CA	26:Y2:1434:PHE:CD2	2.26	1.19
27:Z1:31:ASN:CA	27:Z1:368:GLU:OE2	1.90	1.19
1:A2:1224:PRO:HG2	1:A1:648:TYR:OH	1.38	1.19
1:A2:1233:GLN:NE2	1:A1:640:LEU:CD1	1.97	1.19
6:F1:159:ALA:C	9:I1:1335:LYS:CG	2.12	1.19
9:I1:896:PRO:CA	13:M1:583:ASP:CB	2.16	1.19
22:U1:289:GLN:NE2	25:X1:794:ILE:CG1	2.05	1.19
22:U1:295:GLU:N	27:Z1:657:TYR:CD2	2.09	1.19
24:W1:526:ARG:CB	24:W1:740:PHE:CB	2.20	1.19
25:X1:799:SER:C	26:Y1:1372:LYS:CA	2.16	1.19
25:X2:665:TRP:NE1	26:Y2:1267:GLU:HB2	1.57	1.19
27:Z1:26:ILE:CA	27:Z1:440:MET:HE1	1.70	1.19
29:b1:16:ILE:HG13	29:b1:21:LYS:CD	1.71	1.19
1:A2:1220:PRO:O	1:A1:599:ARG:CB	1.89	1.19
1:A2:1237:LEU:HD21	1:A1:588:SER:OG	1.04	1.19
7:G1:255:LEU:HB2	15:O2:246:LEU:H	1.02	1.19
9:I2:1103:LEU:C	13:M3:611:LYS:NZ	1.94	1.19
17:Q1:361:TYR:O	17:Q1:511:PRO:CB	1.90	1.19
25:X2:765:LEU:HD21	27:Z2:652:GLN:CD	1.61	1.19
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:CE2	2.07	1.19
26:Y1:1382:VAL:C	26:Y1:1384:LYS:CG	2.15	1.19
27:Z1:131:LEU:HD13	27:Z1:187:PHE:CE2	1.77	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J1:247:ASP:CB	15:O1:276:GLY:C	2.15	1.19
27:Z1:93:VAL:O	27:Z1:94:PRO:HD2	1.16	1.19
27:Z2:69:PHE:CD1	27:Z2:84:ASN:CG	2.21	1.19
27:Z2:314:ILE:HD12	27:Z2:386:PHE:CE2	1.76	1.19
27:Z2:582:GLU:OE2	27:Z2:586:LYS:NZ	1.76	1.19
1:A2:1386:GLU:OE1	1:A1:728:LYS:HE2	1.02	1.18
6:F1:160:SER:N	9:I1:1338:PHE:CD2	1.96	1.18
9:I1:1046:HIS:CE1	15:O1:168:ALA:HA	1.78	1.18
9:I1:1049:LEU:HD11	14:N1:297:ALA:CA	1.64	1.18
9:I2:1102:GLN:N	15:O3:272:SER:HB2	1.50	1.18
25:X2:778:LYS:CD	25:X2:795:LYS:HB2	1.61	1.18
26:Y1:1367:LYS:O	26:Y1:1371:VAL:HG23	1.43	1.18
26:Y2:1435:LYS:CE	27:Z2:225:LEU:CD2	2.21	1.18
27:Z1:24:ARG:CZ	27:Z1:440:MET:HB3	1.72	1.18
27:Z1:216:LEU:CD2	27:Z1:272:ILE:HD12	1.68	1.18
27:Z1:581:PHE:N	27:Z1:581:PHE:C	2.01	1.18
27:Z1:582:GLU:OE2	27:Z1:586:LYS:NZ	1.76	1.18
27:Z2:15:ALA:C	27:Z2:16:SER:CA	2.17	1.18
27:Z2:117:ASP:CA	27:Z2:124:LYS:HZ3	1.44	1.18
27:Z2:611:GLN:C	27:Z2:611:GLN:HA	1.66	1.18
9:I2:1107:SER:CB	13:M3:615:PRO:CG	2.00	1.18
9:I2:1254:VAL:N	14:N3:411:GLN:H	1.41	1.18
22:U1:289:GLN:HG3	25:X1:794:ILE:C	1.67	1.18
25:X1:795:LYS:HE2	27:Z1:666:GLU:CA	1.73	1.18
25:X2:644:TRP:O	27:Z2:535:PHE:HZ	1.23	1.18
25:X2:693:ILE:HB	27:Z2:7:LEU:CG	1.72	1.18
25:X2:751:LEU:HD13	27:Z2:638:ILE:CG1	1.72	1.18
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CA	2.24	1.18
27:Z1:422:ARG:CZ	27:Z1:442:ASN:HD21	1.55	1.18
27:Z1:540:VAL:C	27:Z2:555:GLU:HG3	1.51	1.18
27:Z2:213:PRO:HD2	27:Z2:216:LEU:CD2	1.72	1.18
27:Z2:288:ASN:O	27:Z2:289:PRO:C	1.80	1.18
27:Z2:581:PHE:N	27:Z2:581:PHE:C	2.01	1.18
29:b2:72:GLU:CG	29:b2:75:HIS:CE1	2.25	1.18
1:A4:929:ASN:ND2	4:D3:468:LYS:HE3	0.88	1.18
6:F1:135:VAL:HG11	9:I1:1336:MET:CG	1.46	1.18
9:I1:1051:LYS:HB3	14:N1:293:LYS:CD	1.72	1.18
9:I2:1099:ARG:C	15:O3:272:SER:CB	2.16	1.18
17:Q1:448:SER:CB	17:Q1:546:ILE:CG2	2.19	1.18
22:U1:293:GLN:OE1	26:Y1:1367:LYS:HE2	1.06	1.18
24:W1:403:ASP:CB	24:W1:723:PHE:C	2.13	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1410:GLN:HB3	27:Z1:711:LYS:HE3	1.22	1.18
26:Y2:1291:LEU:HD11	27:Z2:581:PHE:CD1	1.72	1.18
27:Z1:126:SER:N	27:Z1:147:GLU:OE1	1.77	1.18
27:Z1:282:GLN:O	27:Z1:283:GLY:HA2	1.44	1.18
27:Z2:131:LEU:HD13	27:Z2:187:PHE:CE2	1.77	1.18
22:U1:241:ARG:NH1	27:Z1:659:LYS:HZ3	1.41	1.18
24:W1:403:ASP:CA	24:W1:723:PHE:O	1.92	1.18
25:X2:690:GLN:O	27:Z2:7:LEU:CD2	1.91	1.18
25:X2:721:LEU:CD1	26:Y2:1316:GLU:OE1	1.92	1.18
26:Y1:1386:ALA:O	26:Y2:1357:ASN:HB3	1.41	1.18
26:Y1:1431:MET:CA	26:Y1:1434:PHE:CD2	2.26	1.18
27:Z2:12:ILE:HD13	27:Z2:54:TYR:HB2	1.22	1.18
27:Z2:126:SER:N	27:Z2:147:GLU:OE1	1.77	1.18
1:A3:871:ASN:CB	4:D1:515:ASN:HD22	1.57	1.18
6:F1:132:THR:OG1	9:I1:1334:PRO:CD	1.89	1.18
6:F1:161:ALA:O	9:I1:1335:LYS:N	1.72	1.18
9:I1:1315:GLN:HB2	15:O1:266:GLN:O	1.02	1.18
9:I2:976:ARG:N	14:N3:300:ALA:CB	2.05	1.18
24:W1:523:ASP:HA	24:W1:736:ASN:O	1.43	1.18
24:W1:534:ASP:CB	24:W1:746:CYS:O	1.90	1.18
26:Y1:1400:LYS:O	26:Y1:1404:GLU:HG3	1.38	1.18
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CE	1.74	1.18
26:Y2:1409:LEU:CB	27:Z2:711:LYS:HZ3	1.57	1.18
26:Y2:1412:GLU:CD	27:Z1:258:LYS:HE3	1.67	1.18
27:Z2:209:TYR:CB	27:Z2:210:PRO:HD3	1.61	1.18
27:Z2:582:GLU:OE2	27:Z2:586:LYS:HE3	1.43	1.18
29:b2:56:THR:CG2	29:b2:91:THR:O	1.90	1.18
1:A2:1221:ILE:CD1	1:A1:596:ARG:HD2	1.72	1.17
9:I1:912:VAL:CG2	15:O1:198:ARG:NH1	2.02	1.17
9:I2:1103:LEU:CB	13:M3:611:LYS:NZ	2.03	1.17
10:J2:247:ASP:OD1	15:O3:279:ILE:HD11	1.39	1.17
25:X1:721:LEU:CD1	26:Y1:1316:GLU:OE1	1.92	1.17
25:X2:695:GLN:CD	27:Z2:48:VAL:HG21	1.68	1.17
27:Z1:170:ASN:ND2	27:Z1:177:ALA:CB	2.07	1.17
27:Z2:170:ASN:ND2	27:Z2:177:ALA:CB	2.07	1.17
27:Z2:343:VAL:HB	27:Z2:346:ASN:HD22	1.02	1.17
1:A3:1326:TRP:O	4:D3:876:SER:OG	1.60	1.17
9:I1:908:ARG:HH22	13:M1:555:GLN:HB2	1.01	1.17
9:I2:843:GLU:OE1	15:O3:191:ARG:CD	1.91	1.17
25:X1:700:ILE:CD1	26:Y1:1298:TYR:CD1	2.28	1.17
25:X1:742:GLN:CG	25:X1:743:GLN:CB	2.22	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:778:LYS:CD	25:X2:795:LYS:HB3	1.70	1.17
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:HD21	1.74	1.17
27:Z1:205:ILE:HG22	27:Z1:285:PHE:CD2	1.80	1.17
27:Z1:263:TRP:CZ3	27:Z1:265:SER:CA	2.27	1.17
1:A2:1269:ALA:O	1:A1:731:ILE:CB	1.90	1.17
9:I1:908:ARG:CB	15:O1:209:LEU:HD11	1.74	1.17
9:I2:899:LEU:HD12	13:M3:585:LEU:N	1.12	1.17
13:M3:469:GLU:HB2	13:M4:536:GLU:OE1	1.43	1.17
25:X1:815:GLU:CG	26:Y1:1402:LEU:CG	2.22	1.17
25:X2:637:LEU:O	25:X2:641:VAL:HG22	1.26	1.17
25:X2:695:GLN:HG3	27:Z2:431:TRP:CD2	1.79	1.17
25:X2:765:LEU:HD21	27:Z2:652:GLN:OE1	1.35	1.17
25:X2:823:LYS:CG	27:Z1:270:VAL:HG12	1.72	1.17
26:Y2:1334:LEU:C	27:Z1:108:ALA:CB	2.08	1.17
26:Y2:1406:VAL:O	27:Z2:711:LYS:NZ	1.78	1.17
27:Z1:69:PHE:CD1	27:Z1:84:ASN:CG	2.21	1.17
27:Z1:125:SER:C	27:Z1:147:GLU:OE1	1.87	1.17
27:Z1:137:TYR:CG	27:Z1:215:VAL:CG1	2.12	1.17
27:Z1:208:PHE:CZ	27:Z1:279:ALA:HB3	1.79	1.17
27:Z2:125:SER:C	27:Z2:147:GLU:OE1	1.87	1.17
1:A2:1204:TRP:NE1	1:A1:599:ARG:CA	2.01	1.17
9:I1:1311:LEU:CD2	15:O1:266:GLN:CB	2.19	1.17
25:X2:815:GLU:CG	26:Y2:1402:LEU:CG	2.22	1.17
26:Y1:1406:VAL:O	27:Z1:711:LYS:NZ	1.77	1.17
26:Y2:1358:HIS:O	26:Y2:1362:LEU:HG	1.44	1.17
27:Z1:94:PRO:HB3	27:Z1:109:PHE:HZ	1.01	1.17
27:Z1:182:ILE:O	27:Z1:182:ILE:HG23	1.38	1.17
27:Z1:217:LEU:HD23	27:Z1:269:LYS:CG	1.74	1.17
27:Z1:401:ASP:C	27:Z2:262:ASN:HA	1.42	1.17
27:Z1:642:ASN:CA	27:Z1:643:SER:N	2.08	1.17
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CD1	2.26	1.17
27:Z2:422:ARG:CZ	27:Z2:442:ASN:HD21	1.55	1.17
9:I1:967:SER:CB	15:O1:178:ASP:N	1.86	1.17
9:I2:1026:TYR:CE1	13:M3:609:GLY:HA2	1.79	1.17
9:I2:1048:GLU:CD	14:N3:293:LYS:HB2	1.70	1.17
9:I2:1049:LEU:HD12	16:P3:142:LEU:N	1.57	1.17
17:Q1:448:SER:HB2	17:Q1:546:ILE:CG2	1.75	1.17
25:X2:680:TYR:O	27:Z2:446:THR:CG2	1.93	1.17
26:Y1:1436:VAL:HG22	27:Z1:228:ASN:OD1	1.43	1.17
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:HD21	1.74	1.17
26:Y2:1367:LYS:O	26:Y2:1371:VAL:HG23	1.44	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:213:PRO:HD2	27:Z1:216:LEU:HD22	1.26	1.17
27:Z1:630:TRP:NE1	27:Z1:634:ILE:HD11	1.60	1.17
27:Z2:263:TRP:CZ3	27:Z2:265:SER:CA	2.26	1.17
1:A2:1229:VAL:HG22	1:A1:639:ASN:O	1.36	1.16
1:A4:1027:HIS:CE1	4:D3:478:ALA:CB	2.28	1.16
6:F1:1267:ARG:CG	15:O2:255:GLY:N	2.06	1.16
9:I1:838:GLU:CA	15:O1:198:ARG:HH21	1.58	1.16
9:I1:1051:LYS:NZ	14:N1:290:VAL:CG2	2.06	1.16
9:I2:899:LEU:HA	13:M3:580:LYS:O	1.44	1.16
9:I2:1160:ILE:HG21	15:O3:264:ILE:HA	1.23	1.16
22:U1:209:PRO:CG	27:Z1:662:LEU:HB2	1.75	1.16
24:W1:400:LYS:HD3	24:W1:720:PHE:CB	1.75	1.16
25:X1:638:ASP:OD1	25:X1:638:ASP:C	1.85	1.16
25:X1:765:LEU:HD21	27:Z1:652:GLN:CD	1.61	1.16
25:X2:691:ASN:HB3	27:Z2:431:TRP:CD1	1.17	1.16
25:X2:700:ILE:CD1	26:Y2:1298:TYR:CD1	2.28	1.16
26:Y2:1288:ILE:HD12	27:Z2:7:LEU:N	1.59	1.16
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:CE	2.21	1.16
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CE	1.93	1.16
27:Z1:143:VAL:HG22	27:Z1:153:MET:SD	1.85	1.16
27:Z2:27:PHE:CZ	27:Z2:36:VAL:CB	2.05	1.16
9:I2:843:GLU:CD	15:O3:191:ARG:CD	2.18	1.16
9:I2:919:ALA:HB3	16:P3:157:GLU:CD	1.68	1.16
17:Q1:386:PHE:CZ	17:Q1:563:PHE:HA	1.80	1.16
25:X1:742:GLN:HG2	25:X1:743:GLN:CB	1.73	1.16
25:X2:711:LEU:CD2	26:Y2:1309:ASP:OD2	1.93	1.16
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:HH21	1.48	1.16
27:Z1:27:PHE:CZ	27:Z1:36:VAL:CB	2.05	1.16
27:Z2:120:GLU:C	27:Z2:120:GLU:H	1.47	1.16
27:Z2:208:PHE:CZ	27:Z2:279:ALA:HB3	1.79	1.16
29:b1:55:ASN:HD22	29:b1:56:THR:CB	1.58	1.16
1:A3:1330:VAL:CG2	4:D3:876:SER:OG	1.93	1.16
6:F1:139:GLN:NE2	9:I1:1340:LEU:CD1	2.08	1.16
9:I1:913:ALA:O	13:M1:541:LEU:HD13	1.44	1.16
9:I1:917:TYR:CZ	13:M1:534:GLN:O	1.98	1.16
9:I2:891:LEU:HD21	13:M3:590:LYS:CE	1.68	1.16
9:I2:1106:LYS:CB	15:O3:275:LEU:CD1	2.24	1.16
9:I2:1308:THR:H	14:N3:414:ALA:HA	0.99	1.16
25:X1:711:LEU:CD2	26:Y1:1309:ASP:OD2	1.93	1.16
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:CD1	2.28	1.16
1:A2:1269:ALA:O	1:A1:731:ILE:CG1	1.93	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1086:LYS:CB	4:D3:1096:TYR:CZ	2.28	1.16
9:I1:908:ARG:CG	15:O1:209:LEU:HD11	1.76	1.16
9:I2:915:ALA:N	15:O3:193:ALA:C	1.89	1.16
9:I2:963:LEU:HB2	16:P3:148:ALA:HA	1.18	1.16
9:I2:968:PRO:CG	14:N3:300:ALA:HA	1.73	1.16
9:I2:1103:LEU:HD23	15:O3:275:LEU:HD23	1.26	1.16
17:Q1:382:ARG:N	17:Q1:512:ILE:HB	1.44	1.16
25:X2:692:LYS:CB	27:Z2:431:TRP:CZ2	2.26	1.16
26:Y1:1122:ILE:CD1	29:b1:87:LEU:CD1	2.23	1.16
26:Y1:1291:LEU:HD12	27:Z1:581:PHE:CD1	1.71	1.16
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:HA	1.79	1.16
27:Z1:679:GLU:N	27:Z1:680:TRP:N	1.92	1.16
27:Z2:211:PHE:N	27:Z2:211:PHE:HA	1.61	1.16
27:Z2:217:LEU:HD22	27:Z2:269:LYS:HD3	1.17	1.16
1:A2:1272:GLY:O	1:A1:723:PHE:CZ	1.97	1.16
4:D1:673:LEU:HG	1:A1:1094:ILE:CD1	1.76	1.16
9:I1:911:PRO:O	13:M1:541:LEU:O	1.64	1.16
9:I1:967:SER:HB3	15:O1:178:ASP:N	1.05	1.16
9:I1:1034:ASP:OD2	16:P1:144:ASP:O	1.61	1.16
9:I2:916:ALA:HB3	15:O3:189:ARG:C	1.60	1.16
9:I2:1027:ALA:O	13:M3:612:PRO:O	1.62	1.16
10:J1:252:LEU:HD21	15:O1:269:ILE:HG22	1.25	1.16
22:U1:299:GLU:CG	27:Z1:652:GLN:O	1.93	1.16
26:Y2:1368:LEU:N	26:Y2:1383:ALA:CB	2.09	1.16
29:b1:16:ILE:HD13	29:b1:77:VAL:HG13	1.20	1.16
29:b2:42:ALA:O	29:b2:59:VAL:HG21	1.41	1.16
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CD1	1.81	1.15
9:I2:1026:TYR:CE2	13:M3:610:SER:N	1.92	1.15
10:J1:247:ASP:CB	15:O1:276:GLY:CA	2.25	1.15
24:W1:400:LYS:CG	24:W1:720:PHE:CB	2.23	1.15
24:W1:403:ASP:HB2	24:W1:723:PHE:CA	1.75	1.15
26:Y1:1291:LEU:HD11	27:Z1:581:PHE:HD1	0.99	1.15
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:CE2	2.04	1.15
27:Z1:342:TYR:CZ	27:Z1:344:TYR:CE2	2.34	1.15
7:G1:253:SER:OG	13:M2:592:LEU:HD12	1.44	1.15
7:G1:253:SER:OG	13:M2:592:LEU:CD1	1.94	1.15
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD12	1.72	1.15
9:I2:921:GLU:HB2	16:P3:157:GLU:OE2	0.98	1.15
9:I2:1026:TYR:CZ	13:M3:610:SER:N	2.10	1.15
9:I2:1049:LEU:HB2	14:N3:293:LYS:HA	1.16	1.15
17:Q2:928:LYS:HE2	19:R2:695:ALA:CB	1.77	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:409:LYS:NZ	18:R1:448:ILE:N	1.92	1.15
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:CB	1.75	1.15
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:CD2	2.25	1.15
26:Y2:1291:LEU:HD12	27:Z2:581:PHE:CD1	1.71	1.15
27:Z1:25:TYR:C	27:Z1:440:MET:HE1	1.70	1.15
27:Z1:201:GLU:O	27:Z1:201:GLU:CG	1.87	1.15
27:Z1:359:GLU:CD	27:Z1:361:LYS:HE2	1.70	1.15
27:Z2:117:ASP:HA	27:Z2:124:LYS:CE	1.73	1.15
27:Z2:192:LEU:HD11	27:Z2:226:ILE:HD11	1.15	1.15
1:A2:1225:PRO:HB2	1:A1:640:LEU:HD23	1.24	1.15
1:A3:1396:GLY:O	4:D3:869:THR:HG21	1.46	1.15
7:G2:249:ASP:CB	15:O4:251:ILE:HG12	1.77	1.15
9:I1:924:ILE:N	15:O1:187:ASN:ND2	1.91	1.15
9:I2:806:VAL:HG11	15:O3:247:TRP:CB	1.72	1.15
9:I2:843:GLU:N	15:O3:191:ARG:HH22	1.43	1.15
9:I2:1049:LEU:HD23	14:N3:292:ARG:O	1.47	1.15
9:I2:1103:LEU:H	13:M3:611:LYS:CE	1.50	1.15
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:CD2	2.25	1.15
26:Y1:1358:HIS:O	26:Y1:1362:LEU:HG	1.44	1.15
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:O	0.99	1.15
26:Y2:1436:VAL:HG22	27:Z2:228:ASN:OD1	1.43	1.15
27:Z1:282:GLN:C	27:Z1:283:GLY:CA	2.18	1.15
27:Z1:544:THR:N	27:Z2:554:HIS:ND1	1.63	1.15
27:Z2:252:GLN:OE1	27:Z2:334:SER:OG	1.65	1.15
27:Z2:282:GLN:C	27:Z2:283:GLY:CA	2.18	1.15
27:Z2:282:GLN:O	27:Z2:283:GLY:HA2	1.44	1.15
29:b2:16:ILE:HG13	29:b2:21:LYS:HE3	1.25	1.15
7:G1:251:TYR:O	15:O2:247:TRP:N	1.80	1.15
9:I1:1051:LYS:NZ	14:N1:290:VAL:HA	1.48	1.15
17:Q1:742:LEU:HA	17:Q1:745:ILE:HD12	1.27	1.15
25:X2:726:VAL:C	25:X2:726:VAL:CB	2.20	1.15
25:X2:778:LYS:CE	25:X2:795:LYS:HB2	1.76	1.15
25:X2:823:LYS:CB	27:Z1:259:LEU:CD2	2.14	1.15
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HD12	1.82	1.15
27:Z2:125:SER:CB	27:Z2:148:ASP:OD2	1.94	1.15
27:Z2:217:LEU:HD23	27:Z2:269:LYS:CG	1.74	1.15
29:b1:10:ILE:CG2	29:b1:12:LYS:HE2	1.75	1.15
1:A2:1277:TRP:CG	1:A1:642:ARG:NH2	2.13	1.15
7:G1:251:TYR:CD2	15:O2:244:GLU:HA	1.81	1.15
9:I1:915:ALA:HB1	15:O1:196:SER:CA	1.75	1.15
9:I2:809:HIS:HD2	15:O3:243:LEU:CB	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:916:ALA:HB2	15:O3:189:ARG:O	1.47	1.15
9:I2:1095:TYR:HE1	15:O3:267:ALA:CA	1.59	1.15
9:I2:1103:LEU:CA	13:M3:611:LYS:HE3	1.68	1.15
25:X2:695:GLN:HE21	27:Z2:431:TRP:NE1	1.45	1.15
26:Y1:1385:LEU:HD11	27:Z1:683:LEU:HD22	1.22	1.15
27:Z1:129:LYS:HG2	27:Z1:145:LEU:HB3	1.29	1.15
27:Z2:205:ILE:HG22	27:Z2:285:PHE:CD2	1.80	1.15
27:Z2:241:THR:HG21	27:Z2:246:LYS:HG2	1.29	1.15
27:Z2:342:TYR:CZ	27:Z2:344:TYR:CE2	2.35	1.15
27:Z2:416:ASP:HB2	27:Z2:569:LYS:HE2	1.17	1.15
1:A2:1226:LEU:CD2	1:A1:647:GLU:N	2.09	1.14
9:I1:838:GLU:CB	15:O1:198:ARG:HH21	1.58	1.14
9:I2:978:LYS:HE3	15:O3:178:ASP:C	1.54	1.14
9:I2:1168:ALA:CB	15:O3:270:THR:CA	2.19	1.14
22:U1:293:GLN:HG2	26:Y1:1371:VAL:HG22	1.15	1.14
22:U1:296:LEU:HG	27:Z1:653:GLN:C	1.70	1.14
25:X1:789:GLU:HG2	27:Z1:680:TRP:CD1	1.80	1.14
25:X2:695:GLN:OE1	27:Z2:48:VAL:CG2	1.95	1.14
25:X2:755:LEU:HD13	26:Y2:1349:LEU:CD2	1.77	1.14
27:Z1:128:LYS:HE3	27:Z1:147:GLU:CA	1.76	1.14
27:Z1:381:ILE:O	27:Z1:417:ILE:CG1	1.94	1.14
27:Z1:389:TRP:CE3	27:Z1:393:LEU:CD1	2.29	1.14
27:Z2:128:LYS:HE3	27:Z2:147:GLU:CA	1.76	1.14
27:Z2:182:ILE:O	27:Z2:182:ILE:HG23	1.38	1.14
1:A2:1221:ILE:HG12	1:A1:596:ARG:HG2	1.15	1.14
1:A3:1401:VAL:CA	4:D3:873:GLN:CD	2.20	1.14
7:G1:251:TYR:HE1	15:O2:248:SER:CB	1.45	1.14
9:I1:897:GLU:CA	13:M1:580:LYS:CG	1.99	1.14
9:I1:1316:ALA:O	15:O1:269:ILE:HD11	1.47	1.14
9:I2:916:ALA:O	16:P3:158:THR:O	1.64	1.14
9:I2:919:ALA:N	16:P3:157:GLU:HB3	1.61	1.14
10:J1:248:VAL:CG2	15:O1:273:ASP:HB2	1.77	1.14
22:U1:212:LYS:HZ1	25:X1:768:GLU:CG	1.60	1.14
25:X1:665:TRP:HE1	26:Y1:1267:GLU:HB3	1.11	1.14
25:X1:795:LYS:CE	27:Z1:666:GLU:CA	2.25	1.14
25:X1:815:GLU:HG2	26:Y1:1402:LEU:CG	1.78	1.14
25:X2:788:ASP:N	25:X2:788:ASP:HA	1.56	1.14
26:Y2:1385:LEU:HD11	27:Z2:683:LEU:HD22	1.22	1.14
27:Z1:541:LYS:HE2	27:Z2:553:ILE:HG13	1.30	1.14
27:Z2:137:TYR:CG	27:Z2:215:VAL:CG1	2.12	1.14
27:Z2:143:VAL:HG22	27:Z2:153:MET:SD	1.86	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:630:TRP:NE1	27:Z2:634:ILE:HD11	1.60	1.14
29:b1:16:ILE:CD1	29:b1:21:LYS:HG2	1.55	1.14
29:b1:82:GLY:O	29:b1:83:PRO:HD2	1.40	1.14
1:A2:1224:PRO:HG2	1:A1:648:TYR:CE1	1.83	1.14
6:F1:159:ALA:O	9:I1:1335:LYS:HG3	0.98	1.14
7:G2:253:SER:N	15:O4:248:SER:O	1.77	1.14
9:I1:966:TRP:CA	15:O1:181:HIS:HB2	1.70	1.14
9:I2:809:HIS:CD2	15:O3:243:LEU:CA	2.27	1.14
9:I2:907:VAL:O	13:M3:576:LYS:CG	1.95	1.14
9:I2:982:GLN:CG	15:O3:179:LEU:HD11	1.58	1.14
9:I2:1106:LYS:HE2	14:N3:430:ARG:NH1	1.62	1.14
9:I2:1305:LEU:CD2	15:O3:260:LEU:CD1	2.24	1.14
9:I2:1305:LEU:CD2	15:O3:260:LEU:HD12	1.78	1.14
26:Y1:1454:LYS:HE3	27:Z1:349:VAL:HG22	1.27	1.14
27:Z1:343:VAL:CB	27:Z1:346:ASN:ND2	2.11	1.14
27:Z1:531:ILE:HD11	27:Z2:541:LYS:CD	1.76	1.14
27:Z1:541:LYS:HB3	27:Z2:550:HIS:O	1.34	1.14
27:Z2:41:ASN:HD22	27:Z2:60:SER:CA	1.56	1.14
27:Z2:359:GLU:CD	27:Z2:361:LYS:HE2	1.70	1.14
27:Z2:389:TRP:CE3	27:Z2:393:LEU:CD1	2.29	1.14
27:Z2:642:ASN:CA	27:Z2:643:SER:N	2.08	1.14
1:A3:1082:LEU:O	4:D3:1096:TYR:CE2	2.00	1.14
4:D1:673:LEU:CD1	1:A1:1094:ILE:CG1	2.25	1.14
6:F1:142:ALA:CB	9:I1:1395:LEU:H	1.46	1.14
17:Q1:386:PHE:CE2	17:Q1:566:ASN:CG	2.24	1.14
17:Q1:922:LEU:HD21	18:R1:688:LEU:CD2	1.76	1.14
25:X1:644:TRP:C	27:Z1:535:PHE:CE2	2.25	1.14
25:X1:755:LEU:HD13	26:Y1:1349:LEU:CD2	1.78	1.14
25:X2:644:TRP:C	27:Z2:535:PHE:CE2	2.25	1.14
25:X2:690:GLN:CA	27:Z2:7:LEU:CD2	2.24	1.14
25:X2:695:GLN:HG3	27:Z2:431:TRP:CG	1.82	1.14
25:X2:811:SER:OG	27:Z2:701:LEU:HD11	1.42	1.14
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CB	2.20	1.14
27:Z1:135:LYS:HZ3	27:Z1:218:LEU:CD2	1.45	1.14
27:Z1:227:LEU:HD22	27:Z1:256:VAL:HG12	1.20	1.14
27:Z1:230:SER:C	27:Z1:253:LEU:HD21	1.73	1.14
27:Z1:401:ASP:O	27:Z2:262:ASN:HA	1.44	1.14
27:Z2:252:GLN:CB	27:Z2:335:MET:HG2	1.77	1.14
27:Z2:294:LEU:CD2	27:Z2:353:ARG:NH2	2.10	1.14
29:b2:9:PRO:CD	29:b2:29:LYS:HZ2	1.46	1.14
1:A2:1237:LEU:CD1	1:A1:588:SER:HB3	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1070:ASP:OD2	9:I2:1238:LYS:HB2	1.38	1.14
1:A3:1201:ARG:NH2	1:A4:646:ILE:HG22	1.61	1.14
7:G2:252:LEU:H	15:O4:251:ILE:HG22	1.05	1.14
9:I1:1051:LYS:CD	14:N1:289:PHE:HE2	1.36	1.14
9:I2:896:PRO:HG3	13:M3:588:MET:CE	1.76	1.14
9:I2:899:LEU:CD2	13:M3:583:ASP:N	2.10	1.14
9:I2:1026:TYR:OH	13:M3:609:GLY:N	1.81	1.14
10:J1:247:ASP:OD2	15:O1:276:GLY:HA3	0.98	1.14
17:Q2:742:LEU:HA	17:Q2:745:ILE:HD12	1.26	1.14
25:X2:680:TYR:CE2	27:Z2:419:THR:O	1.99	1.14
25:X2:790:ASN:CG	27:Z2:680:TRP:CH2	2.25	1.14
26:Y1:1291:LEU:HD11	27:Z1:581:PHE:CD1	1.71	1.14
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:HE2	1.17	1.14
26:Y2:1212:ARG:CZ	26:Y2:1213:LEU:HD23	1.75	1.14
27:Z1:41:ASN:HD22	27:Z1:60:SER:CA	1.56	1.14
27:Z1:125:SER:CB	27:Z1:148:ASP:OD2	1.94	1.14
27:Z1:210:PRO:O	27:Z1:212:LEU:HG	1.47	1.14
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CB	2.30	1.14
27:Z1:428:TYR:CE1	27:Z1:435:SER:OG	2.01	1.14
27:Z1:544:THR:CG2	27:Z2:558:PHE:H	1.60	1.14
27:Z2:380:ILE:HG22	27:Z2:380:ILE:O	1.37	1.14
29:b1:78:TYR:HD1	29:b1:87:LEU:HD23	0.98	1.14
1:A3:937:ASP:OD1	9:I2:815:ILE:CG2	1.96	1.13
1:A4:132:ASP:OD1	4:D3:1002:ALA:HB3	1.43	1.13
6:F1:135:VAL:CG1	9:I1:1336:MET:HG2	1.54	1.13
9:I1:908:ARG:NH2	13:M1:555:GLN:HB2	1.63	1.13
9:I1:1038:ILE:HD11	15:O1:179:LEU:HD12	1.20	1.13
9:I1:1359:ASP:CG	15:O1:264:ILE:HD13	1.72	1.13
9:I1:1606:GLU:OE2	9:I2:1669:ARG:NE	1.81	1.13
9:I2:813:ILE:HG21	15:O3:237:PRO:C	1.73	1.13
9:I2:1095:TYR:CD1	15:O3:268:GLY:N	2.17	1.13
9:I2:1102:GLN:N	15:O3:272:SER:CB	1.94	1.13
17:Q2:824:ASN:HA	17:Q2:827:THR:HB	1.30	1.13
22:U1:209:PRO:CG	27:Z1:659:LYS:CA	2.09	1.13
22:U1:296:LEU:CD1	27:Z1:653:GLN:O	1.95	1.13
25:X1:765:LEU:HD21	27:Z1:652:GLN:OE1	1.34	1.13
25:X2:778:LYS:O	25:X2:790:ASN:OD1	1.63	1.13
26:Y2:1321:MET:CA	27:Z1:51:ASP:H	1.61	1.13
26:Y2:1449:ILE:CG2	26:Y2:1453:PHE:CE2	2.31	1.13
27:Z1:543:GLN:C	27:Z2:554:HIS:CE1	2.21	1.13
29:b2:76:PHE:HE2	29:b2:87:LEU:HD11	1.11	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1200:ARG:HB3	1:A1:595:GLU:CB	1.77	1.13
9:I2:925:LEU:CG	15:O3:186:PHE:HB2	1.78	1.13
9:I2:977:ASN:O	15:O3:174:LEU:C	1.91	1.13
17:Q2:945:ARG:HA	17:Q2:948:GLN:HE21	1.10	1.13
22:U1:296:LEU:HA	27:Z1:657:TYR:HB2	1.20	1.13
26:Y1:1450:GLY:N	27:Z1:330:ASP:OD2	1.81	1.13
26:Y2:1338:GLN:O	27:Z2:630:TRP:CH2	1.71	1.13
26:Y2:1367:LYS:N	26:Y2:1383:ALA:HB1	1.62	1.13
27:Z1:16:SER:CA	27:Z1:16:SER:N	2.11	1.13
27:Z1:179:VAL:CG2	27:Z1:206:PHE:CD2	2.31	1.13
27:Z1:252:GLN:CB	27:Z1:335:MET:HG2	1.77	1.13
27:Z1:294:LEU:CD2	27:Z1:353:ARG:NH2	2.10	1.13
27:Z2:179:VAL:CG2	27:Z2:206:PHE:CD2	2.31	1.13
27:Z2:393:LEU:HD21	27:Z2:405:LEU:HD22	1.30	1.13
29:b1:25:LEU:HD21	29:b1:79:PHE:CE2	1.71	1.13
9:I1:977:ASN:CB	15:O1:174:LEU:C	2.21	1.13
9:I2:1103:LEU:HA	15:O3:275:LEU:HD23	1.28	1.13
9:I2:1175:LYS:NZ	15:O3:277:GLU:CD	2.06	1.13
20:S1:571:ALA:HB3	21:T1:86:ASN:ND2	1.62	1.13
22:U1:294:VAL:O	27:Z1:658:LEU:HD23	0.97	1.13
22:U1:299:GLU:HG3	27:Z1:652:GLN:O	0.97	1.13
25:X1:776:PHE:HE1	25:X1:795:LYS:HD3	0.99	1.13
25:X1:795:LYS:HZ3	27:Z1:666:GLU:HG2	1.13	1.13
26:Y2:1450:GLY:N	27:Z2:330:ASP:OD2	1.81	1.13
27:Z1:149:ASP:OD1	27:Z1:182:ILE:HG21	1.47	1.13
27:Z1:395:LYS:HE3	27:Z2:266:ARG:HG3	1.25	1.13
27:Z2:149:ASP:OD1	27:Z2:182:ILE:HG21	1.48	1.13
27:Z2:669:THR:HG21	27:Z2:680:TRP:CH2	1.83	1.13
1:A2:1331:GLU:HB3	4:D1:899:THR:C	1.72	1.13
6:F2:139:GLN:CD	9:I2:1340:LEU:HD22	1.73	1.13
9:I1:908:ARG:CG	15:O1:209:LEU:CD1	2.26	1.13
9:I2:976:ARG:NE	15:O3:174:LEU:HD11	1.62	1.13
9:I2:1109:LEU:HB3	15:O3:284:LYS:HZ2	0.98	1.13
17:Q1:929:LEU:HD23	18:R1:714:TYR:CE1	1.82	1.13
18:R1:402:GLY:CA	18:R1:444:ALA:CB	2.27	1.13
25:X1:811:SER:O	26:Y1:1402:LEU:CD1	1.97	1.13
25:X2:811:SER:O	26:Y2:1402:LEU:CD1	1.97	1.13
26:Y1:1212:ARG:CA	26:Y1:1212:ARG:N	2.11	1.13
26:Y1:1370:THR:HG22	27:Z1:662:LEU:HD21	1.24	1.13
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:CD2	2.27	1.13
26:Y2:1454:LYS:HE3	27:Z2:349:VAL:HG22	1.26	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:12:ILE:HD13	27:Z1:54:TYR:HB2	1.22	1.13
27:Z1:264:ASN:ND2	27:Z1:267:PHE:CD2	2.16	1.13
27:Z2:55:HIS:HE1	27:Z2:98:SER:OG	1.29	1.13
27:Z2:129:LYS:HG2	27:Z2:145:LEU:HB3	1.29	1.13
27:Z2:216:LEU:CD2	27:Z2:272:ILE:HD12	1.68	1.13
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CB	2.31	1.13
4:D1:1006:ASP:HB2	1:A1:172:PRO:HB3	1.25	1.12
6:F1:267:GLU:HB2	11:K1:637:SER:OG	1.46	1.12
9:I1:904:GLU:CG	13:M1:573:ARG:O	1.84	1.12
9:I1:912:VAL:CA	13:M1:542:ASP:OD1	1.97	1.12
9:I1:963:LEU:CD1	16:P1:152:LYS:HD3	1.79	1.13
9:I1:1543:LEU:HD23	10:J2:300:ILE:HG21	1.18	1.12
9:I2:964:SER:N	16:P3:152:LYS:CB	2.12	1.12
9:I2:1049:LEU:HD11	14:N3:296:GLY:CA	1.56	1.12
17:Q2:197:GLU:HG2	17:Q2:199:PRO:HD3	1.30	1.13
18:R1:436:LEU:HA	18:R1:449:LEU:O	1.42	1.12
22:U1:294:VAL:HG13	27:Z1:661:GLU:OE1	1.34	1.13
22:U1:340:LYS:CD	27:Z1:646:HIS:NE2	2.12	1.12
24:W1:400:LYS:CD	24:W1:720:PHE:CB	2.27	1.12
24:W1:523:ASP:OD2	24:W1:738:ARG:N	1.81	1.12
24:W1:526:ARG:HB2	24:W1:740:PHE:CB	1.79	1.13
25:X2:695:GLN:HB2	27:Z2:431:TRP:CZ3	1.83	1.13
25:X1:755:LEU:HD11	26:Y1:1349:LEU:HD11	1.20	1.12
25:X2:665:TRP:HE1	26:Y2:1267:GLU:HB2	0.97	1.12
25:X2:778:LYS:HG3	25:X2:794:ILE:CA	1.77	1.12
25:X2:822:LYS:O	27:Z1:262:ASN:ND2	1.82	1.12
26:Y1:1449:ILE:CG2	26:Y1:1453:PHE:CE2	2.31	1.12
26:Y2:1126:LEU:HD22	29:b2:63:LYS:O	0.97	1.12
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:HD12	1.08	1.12
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:CD2	2.27	1.12
27:Z1:136:SER:O	27:Z1:217:LEU:CD1	1.98	1.12
27:Z1:137:TYR:HD2	27:Z1:215:VAL:O	1.23	1.12
27:Z1:541:LYS:HB3	27:Z2:554:HIS:N	1.64	1.12
27:Z2:230:SER:C	27:Z2:253:LEU:HD21	1.74	1.12
27:Z2:328:PHE:CE2	27:Z2:349:VAL:CB	2.32	1.12
1:A2:1222:ALA:HA	1:A1:600:LYS:N	1.63	1.12
1:A3:1332:ARG:NE	4:D3:903:ILE:HG13	1.07	1.12
1:A3:1396:GLY:O	4:D3:869:THR:CG2	1.96	1.12
6:F1:141:ALA:HB1	9:I1:1390:PHE:CD2	1.79	1.12
7:G1:252:LEU:HD23	15:O2:244:GLU:N	1.62	1.12
9:I1:924:ILE:N	15:O1:187:ASN:HD21	1.45	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1051:LYS:CG	14:N1:289:PHE:CZ	2.23	1.12
9:I2:895:ARG:N	13:M3:587:GLU:CG	2.06	1.12
9:I2:1103:LEU:HD23	15:O3:275:LEU:CD2	1.79	1.12
10:J1:248:VAL:HG23	15:O1:273:ASP:OD2	1.47	1.12
25:X2:685:MET:HE3	27:Z2:13:PHE:CZ	1.84	1.12
26:Y2:1333:ASP:CA	27:Z1:92:GLU:HB2	1.79	1.12
27:Z1:252:GLN:OE1	27:Z1:334:SER:OG	1.65	1.12
27:Z2:117:ASP:HB3	27:Z2:124:LYS:HZ3	1.07	1.12
27:Z2:131:LEU:CD1	27:Z2:187:PHE:CE2	2.32	1.12
27:Z2:136:SER:O	27:Z2:217:LEU:HD11	1.48	1.12
27:Z2:201:GLU:O	27:Z2:201:GLU:CG	1.87	1.12
27:Z2:343:VAL:CB	27:Z2:346:ASN:ND2	2.11	1.12
29:b1:65:PHE:HE2	29:b1:87:LEU:HD11	1.12	1.12
1:A3:937:ASP:OD1	9:I2:815:ILE:HG23	1.50	1.12
6:F1:1267:ARG:HG2	15:O2:255:GLY:N	1.28	1.12
7:G1:247:ASP:N	13:M2:594:LYS:HD3	1.56	1.12
13:M3:469:GLU:OE1	13:M4:536:GLU:OE1	1.66	1.12
25:X1:811:SER:OG	27:Z1:701:LEU:HD11	1.42	1.12
25:X2:685:MET:HE3	27:Z2:13:PHE:CE2	1.84	1.12
25:X2:690:GLN:O	27:Z2:7:LEU:HD23	0.97	1.12
26:Y1:1430:ASP:CA	26:Y1:1434:PHE:CZ	2.32	1.12
27:Z1:124:LYS:HD2	27:Z1:147:GLU:OE1	1.35	1.12
27:Z2:149:ASP:OD1	27:Z2:182:ILE:CG2	1.97	1.12
27:Z2:165:VAL:CB	27:Z2:168:LYS:HE2	1.79	1.12
1:A3:1088:ASN:OD1	4:D3:1095:ARG:NH2	1.82	1.12
7:G1:252:LEU:HD23	15:O2:244:GLU:CA	1.77	1.12
7:G1:255:LEU:HA	15:O2:246:LEU:N	1.40	1.12
7:G2:253:SER:HA	15:O4:249:ARG:C	1.74	1.12
9:I1:1669:ARG:HH11	9:I2:1611:PHE:C	1.55	1.12
9:I2:809:HIS:HE2	15:O3:243:LEU:HG	1.04	1.12
9:I2:976:ARG:NH2	14:N3:293:LYS:HD2	1.59	1.12
9:I2:977:ASN:N	15:O3:174:LEU:HD22	1.27	1.12
17:Q1:1078:LEU:HD21	17:Q1:1155:VAL:HG13	1.27	1.12
17:Q2:139:ILE:HG22	17:Q2:165:ILE:HB	1.30	1.12
17:Q2:345:GLN:HG3	17:Q2:346:LEU:HD22	1.22	1.12
20:S1:568:ALA:CA	21:T1:86:ASN:ND2	1.98	1.12
26:Y2:1125:ASP:C	26:Y2:1125:ASP:HB3	1.73	1.12
26:Y2:1334:LEU:CB	27:Z1:108:ALA:N	2.11	1.12
27:Z1:328:PHE:CE2	27:Z1:349:VAL:CB	2.32	1.12
27:Z1:451:SER:O	27:Z1:452:SER:HB2	1.47	1.12
27:Z1:541:LYS:CB	27:Z2:554:HIS:N	2.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:136:SER:O	27:Z2:217:LEU:CD1	1.97	1.12
1:A2:1328:ARG:CD	4:D1:976:ARG:NE	1.70	1.12
6:F2:142:ALA:CA	9:I2:1395:LEU:HD21	1.78	1.12
9:I1:896:PRO:CB	13:M1:583:ASP:CB	2.07	1.12
9:I1:911:PRO:HG3	15:O1:202:LEU:HB2	1.21	1.12
9:I1:965:ALA:CB	15:O1:185:ALA:H	1.60	1.12
9:I2:1026:TYR:HD1	13:M3:612:PRO:HG3	1.00	1.12
9:I2:1051:LYS:CB	14:N3:292:ARG:HD3	1.78	1.12
9:I2:1253:GLY:N	14:N3:409:ALA:H	1.40	1.12
9:I2:1305:LEU:HD22	15:O3:264:ILE:HG13	1.31	1.12
10:J1:248:VAL:CG2	15:O1:273:ASP:CB	2.28	1.12
17:Q1:443:TRP:CD1	17:Q1:504:PHE:CD1	2.37	1.12
20:S1:571:ALA:HB3	21:T1:86:ASN:HD22	1.08	1.12
22:U1:209:PRO:CG	27:Z1:659:LYS:HA	1.58	1.12
25:X1:818:ILE:HD13	26:Y1:1405:GLN:HG3	1.27	1.12
25:X2:692:LYS:HG2	27:Z2:431:TRP:CH2	1.82	1.12
26:Y2:1430:ASP:CA	26:Y2:1434:PHE:CZ	2.32	1.12
27:Z1:287:ILE:HD13	27:Z1:348:LEU:HD12	1.12	1.12
27:Z1:328:PHE:CE2	27:Z1:349:VAL:CG1	2.33	1.12
27:Z1:544:THR:CG2	27:Z2:558:PHE:HB2	1.80	1.12
1:A3:1200:ARG:CB	1:A4:591:ASP:CG	2.24	1.11
9:I1:961:ARG:NH1	15:O1:190:ARG:N	1.98	1.11
9:I1:1049:LEU:HD11	14:N1:297:ALA:HA	1.20	1.11
9:I2:895:ARG:HH21	13:M3:589:GLY:N	1.46	1.11
9:I2:1168:ALA:CB	15:O3:270:THR:HA	1.79	1.11
9:I2:1255:HIS:NE2	14:N3:407:ALA:HB3	0.79	1.11
17:Q1:448:SER:HB2	17:Q1:546:ILE:HG22	1.25	1.11
25:X1:789:GLU:CG	27:Z1:680:TRP:CD1	2.31	1.11
26:Y1:1383:ALA:O	26:Y2:1361:GLU:HA	0.94	1.11
26:Y1:1383:ALA:CA	26:Y2:1361:GLU:CA	2.21	1.11
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CB	1.63	1.11
26:Y2:1410:GLN:CB	27:Z2:711:LYS:HE3	1.80	1.11
27:Z1:126:SER:O	27:Z1:147:GLU:OE2	1.68	1.11
27:Z1:131:LEU:CD1	27:Z1:187:PHE:CE2	2.32	1.11
27:Z1:165:VAL:CB	27:Z1:168:LYS:HE2	1.80	1.11
27:Z1:192:LEU:HD11	27:Z1:226:ILE:HD11	1.16	1.11
27:Z2:165:VAL:HB	27:Z2:168:LYS:CE	1.79	1.11
27:Z2:328:PHE:CE2	27:Z2:349:VAL:CG1	2.33	1.11
1:A2:1203:TYR:CB	1:A1:595:GLU:OE2	1.98	1.11
6:F1:1808:VAL:N	14:N2:412:ASN:HA	1.50	1.11
9:I2:1050:SER:N	16:P3:142:LEU:H	1.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1103:LEU:HD13	13:M3:614:ASP:HB3	1.28	1.11
10:J1:248:VAL:CG2	15:O1:273:ASP:CG	2.23	1.11
17:Q1:385:THR:CG2	17:Q1:507:ILE:HG23	1.79	1.11
22:U1:299:GLU:HG3	27:Z1:652:GLN:C	1.74	1.11
25:X2:690:GLN:NE2	27:Z2:581:PHE:CZ	2.07	1.11
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:HD21	1.13	1.11
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:HE2	1.17	1.11
26:Y2:1368:LEU:H	26:Y2:1383:ALA:CB	1.60	1.11
27:Z1:358:ARG:NH2	27:Z1:382:GLN:OE1	1.83	1.11
29:b1:25:LEU:HD21	29:b1:79:PHE:CD2	1.84	1.11
1:A2:1386:GLU:OE1	1:A1:728:LYS:CE	1.87	1.11
6:F1:138:ILE:CA	9:I1:1392:VAL:HG23	1.81	1.11
6:F1:154:SER:HB3	9:I1:1344:GLN:NE2	1.62	1.11
9:I2:1048:GLU:OE2	14:N3:293:LYS:HB3	1.49	1.11
22:U1:209:PRO:HG2	27:Z1:658:LEU:C	1.74	1.11
25:X2:751:LEU:HD13	27:Z2:638:ILE:HG12	1.31	1.11
26:Y1:1122:ILE:HD11	29:b1:87:LEU:HD11	1.18	1.11
26:Y1:1277:LYS:HE2	27:Z1:570:ILE:HB	1.23	1.11
26:Y1:1383:ALA:N	26:Y2:1364:ASN:HB2	1.47	1.11
27:Z1:149:ASP:OD1	27:Z1:182:ILE:CG2	1.97	1.11
27:Z2:23:PRO:CA	27:Z2:24:ARG:N	2.14	1.11
27:Z2:227:LEU:HD22	27:Z2:256:VAL:HG12	1.21	1.11
27:Z2:342:TYR:CZ	27:Z2:344:TYR:CD2	2.38	1.11
6:F1:138:ILE:HB	9:I1:1392:VAL:HG22	1.31	1.11
6:F1:161:ALA:N	9:I1:1335:LYS:CA	2.12	1.11
6:F1:1807:GLU:C	14:N2:412:ASN:HA	1.75	1.11
7:G1:247:ASP:N	13:M2:594:LYS:HD2	1.61	1.11
9:I1:918:SER:HA	15:O1:193:ALA:N	1.59	1.11
9:I2:1162:TYR:CA	15:O3:266:GLN:HE21	1.64	1.11
17:Q1:532:LYS:HD3	17:Q1:581:PRO:HG3	1.26	1.11
24:W1:530:LYS:HB3	24:W1:743:ASN:O	1.41	1.11
25:X1:679:LEU:CD1	26:Y1:1278:CYS:SG	2.39	1.11
25:X1:814:LEU:HD11	27:Z1:705:SER:OG	1.50	1.11
25:X2:694:ASP:OD1	27:Z2:584:GLN:NE2	1.84	1.11
27:Z1:136:SER:O	27:Z1:217:LEU:HD11	1.48	1.11
27:Z1:165:VAL:HB	27:Z1:168:LYS:CE	1.80	1.11
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CD1	2.26	1.11
27:Z2:94:PRO:HB3	27:Z2:109:PHE:HZ	1.01	1.11
27:Z2:126:SER:O	27:Z2:147:GLU:OE2	1.68	1.11
29:b1:75:HIS:CE1	29:b1:90:LYS:HD3	1.85	1.11
29:b2:16:ILE:HG23	29:b2:76:PHE:O	1.51	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1329:GLU:O	4:D3:879:ASP:HB3	1.48	1.11
6:F1:163:ASP:H	9:I1:1331:LYS:HB2	1.06	1.11
6:F1:1807:GLU:N	14:N2:412:ASN:OD1	1.84	1.11
9:I1:978:LYS:HB2	15:O1:180:ASP:HB3	1.17	1.11
9:I1:1038:ILE:HG12	15:O1:179:LEU:HD11	1.24	1.11
9:I2:917:TYR:N	15:O3:190:ARG:HA	1.63	1.11
9:I2:1098:LEU:CB	15:O3:269:ILE:CA	2.09	1.11
22:U1:296:LEU:HD21	27:Z1:652:GLN:O	1.51	1.11
25:X1:797:LEU:CD2	27:Z1:687:LEU:CD2	2.22	1.11
25:X1:807:LEU:HD21	27:Z1:698:ASN:HA	1.11	1.11
25:X2:814:LEU:HD11	27:Z2:705:SER:OG	1.50	1.11
25:X2:815:GLU:HG2	26:Y2:1402:LEU:CG	1.78	1.11
26:Y1:1410:GLN:N	27:Z1:711:LYS:CE	2.14	1.11
26:Y2:1277:LYS:HE2	27:Z2:570:ILE:HB	1.23	1.11
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:HG3	1.81	1.11
26:Y2:1369:PHE:CE2	26:Y2:1382:VAL:HG13	1.85	1.11
27:Z1:380:ILE:HG22	27:Z1:380:ILE:O	1.36	1.11
27:Z2:428:TYR:CE1	27:Z2:435:SER:OG	2.02	1.11
6:F1:272:GLU:OE1	9:I1:1210:ILE:HA	1.45	1.10
7:G1:252:LEU:HD21	15:O2:244:GLU:HG2	1.24	1.10
7:G2:252:LEU:O	15:O4:248:SER:O	1.68	1.10
9:I1:915:ALA:HB1	15:O1:196:SER:HA	1.30	1.10
17:Q2:874:PHE:CD1	19:R2:726:ASN:OD1	2.03	1.10
18:R1:707:SER:HA	18:R1:711:LEU:HD13	1.29	1.10
22:U1:192:ILE:HA	27:Z1:664:ARG:HG3	1.25	1.10
25:X1:751:LEU:CD1	27:Z1:638:ILE:HD11	1.78	1.10
25:X1:795:LYS:HE2	27:Z1:666:GLU:N	1.63	1.10
25:X2:694:ASP:CB	27:Z2:431:TRP:O	1.98	1.10
25:X2:823:LYS:HZ1	27:Z1:215:VAL:HA	1.06	1.10
27:Z1:403:ASN:H	27:Z2:262:ASN:ND2	1.49	1.10
27:Z2:26:ILE:HG21	27:Z2:440:MET:HE3	1.25	1.10
27:Z2:149:ASP:OD2	27:Z2:182:ILE:HB	1.50	1.10
27:Z2:210:PRO:O	27:Z2:212:LEU:HG	1.47	1.10
27:Z2:358:ARG:NH2	27:Z2:382:GLN:OE1	1.83	1.10
27:Z2:647:SER:O	27:Z2:651:LEU:HG	1.50	1.10
4:D1:673:LEU:HD12	1:A1:1094:ILE:CD1	1.81	1.10
9:I1:909:ARG:CA	13:M1:548:LEU:HD21	1.81	1.10
9:I1:1038:ILE:HD11	15:O1:179:LEU:CD1	1.74	1.10
9:I2:810:GLU:HA	15:O3:241:SER:O	1.50	1.10
9:I2:925:LEU:CG	15:O3:186:PHE:CB	2.28	1.10
22:U1:300:HIS:HE1	27:Z1:649:LYS:HB3	1.12	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:644:TRP:O	25:X1:648:LEU:HG	1.50	1.10
25:X1:694:ASP:OD1	27:Z1:584:GLN:NE2	1.84	1.10
25:X1:815:GLU:HG3	26:Y1:1402:LEU:HD21	1.34	1.10
25:X2:680:TYR:O	27:Z2:446:THR:HG21	1.49	1.10
25:X2:755:LEU:HD11	26:Y2:1349:LEU:HD11	1.21	1.10
25:X2:778:LYS:CE	25:X2:791:ILE:HG22	1.80	1.10
26:Y1:1410:GLN:CB	27:Z1:711:LYS:HE3	1.80	1.10
27:Z1:342:TYR:CZ	27:Z1:344:TYR:CD2	2.38	1.10
27:Z1:582:GLU:OE2	27:Z1:586:LYS:HE3	1.43	1.10
27:Z1:682:GLU:OE2	27:Z2:650:SER:OG	1.69	1.10
27:Z2:184:ASP:OD1	27:Z2:197:LEU:CB	1.99	1.10
1:A2:1275:PRO:CD	1:A1:726:ALA:HB1	1.77	1.10
1:A3:1088:ASN:O	4:D3:1101:HIS:HE1	0.78	1.10
1:A3:1222:ALA:HB2	1:A4:598:VAL:H	1.08	1.10
6:F1:158:PRO:CG	9:I1:1340:LEU:N	2.13	1.10
9:I2:899:LEU:HD22	13:M3:583:ASP:H	1.13	1.10
9:I2:899:LEU:HD22	13:M3:583:ASP:N	1.58	1.10
9:I2:904:GLU:OE2	15:O3:235:ASN:ND2	1.83	1.10
9:I2:919:ALA:CB	16:P3:157:GLU:CB	2.27	1.10
9:I2:964:SER:N	16:P3:152:LYS:HB2	1.67	1.10
9:I2:982:GLN:HB3	15:O3:179:LEU:HD11	1.25	1.10
17:Q1:929:LEU:HD22	18:R1:691:THR:HB	1.32	1.10
17:Q2:929:LEU:CB	19:R2:714:TYR:OH	1.99	1.10
24:W1:534:ASP:HB2	24:W1:746:CYS:O	1.50	1.10
27:Z1:149:ASP:OD2	27:Z1:182:ILE:HB	1.50	1.10
27:Z1:216:LEU:HG	27:Z1:272:ILE:CD1	1.66	1.10
27:Z1:544:THR:HG23	27:Z2:558:PHE:HB2	1.25	1.10
27:Z2:230:SER:HB3	27:Z2:253:LEU:HD23	1.12	1.10
9:I1:977:ASN:HA	15:O1:177:HIS:N	0.92	1.10
9:I2:806:VAL:CG1	15:O3:247:TRP:HB3	1.75	1.10
9:I2:1095:TYR:CD1	15:O3:266:GLN:C	2.30	1.10
9:I2:1103:LEU:HD22	13:M3:614:ASP:OD1	1.51	1.10
17:Q1:382:ARG:HE	17:Q1:510:ASN:CA	1.25	1.10
17:Q2:553:LEU:HD22	17:Q2:632:LYS:HB3	1.28	1.10
18:R1:402:GLY:HA2	18:R1:444:ALA:CB	1.82	1.10
25:X2:644:TRP:O	25:X2:648:LEU:HG	1.50	1.10
25:X2:679:LEU:CD1	26:Y2:1278:CYS:SG	2.39	1.10
25:X2:699:TYR:HA	27:Z2:49:LEU:HD11	1.21	1.10
25:X2:751:LEU:CD1	27:Z2:638:ILE:HD11	1.77	1.10
25:X2:778:LYS:NZ	25:X2:795:LYS:HB2	1.65	1.10
26:Y2:1124:THR:C	26:Y2:1126:LEU:CD1	2.25	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1211:LEU:C	26:Y2:1215:GLU:CD	2.19	1.10
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CE	2.25	1.10
26:Y2:1443:MET:HE2	27:Z2:332:GLU:OE1	1.40	1.10
27:Z1:170:ASN:ND2	27:Z1:177:ALA:HB3	1.65	1.10
27:Z1:211:PHE:N	27:Z1:211:PHE:HA	1.61	1.10
27:Z1:343:VAL:HB	27:Z1:346:ASN:HD22	1.01	1.10
27:Z2:428:TYR:OH	27:Z2:435:SER:CB	1.99	1.10
27:Z2:429:ILE:HB	27:Z2:436:ASN:OD1	1.51	1.10
27:Z2:581:PHE:C	27:Z2:581:PHE:H	1.59	1.10
27:Z2:669:THR:CA	27:Z2:669:THR:N	2.15	1.10
1:A2:1277:TRP:CB	1:A1:642:ARG:NH2	2.15	1.10
1:A3:1327:VAL:C	4:D3:876:SER:HB2	1.75	1.10
4:D1:673:LEU:CG	1:A1:1094:ILE:CD1	2.30	1.10
6:F1:153:LEU:CG	9:I1:1395:LEU:HD21	1.82	1.10
9:I1:908:ARG:CD	13:M1:552:TYR:CA	2.30	1.10
9:I1:1051:LYS:CG	14:N1:289:PHE:HE2	1.47	1.10
9:I2:906:GLY:HA2	13:M3:573:ARG:HD2	1.11	1.10
9:I2:1102:GLN:HB3	15:O3:271:GLU:O	1.41	1.10
9:I2:1255:HIS:CD2	14:N3:407:ALA:C	2.28	1.10
17:Q1:654:VAL:HG12	17:Q1:666:LYS:HE2	1.34	1.10
17:Q2:532:LYS:HD3	17:Q2:581:PRO:HG3	1.26	1.10
25:X1:765:LEU:HD22	27:Z1:652:GLN:OE1	1.47	1.10
25:X1:793:LEU:CD2	27:Z1:680:TRP:CD1	2.25	1.10
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:HD21	1.13	1.10
26:Y2:1372:LYS:C	26:Y2:1372:LYS:N	2.09	1.10
27:Z1:26:ILE:HG21	27:Z1:440:MET:SD	1.90	1.10
27:Z1:538:ARG:HA	27:Z2:551:ASN:H	1.05	1.10
27:Z2:7:LEU:HD13	27:Z2:581:PHE:CE1	1.86	1.10
27:Z2:13:PHE:CD1	27:Z2:445:LEU:CD2	2.34	1.10
27:Z2:170:ASN:ND2	27:Z2:177:ALA:HB3	1.65	1.10
27:Z2:216:LEU:HG	27:Z2:272:ILE:CD1	1.66	1.10
27:Z2:234:TYR:CB	27:Z2:253:LEU:HD11	1.82	1.10
27:Z2:294:LEU:HD21	27:Z2:353:ARG:HH21	0.97	1.10
29:b1:55:ASN:ND2	29:b1:56:THR:HB	1.44	1.10
29:b2:80:TYR:CE1	29:b2:85:ALA:HB2	1.86	1.10
1:A4:127:HIS:H	4:D3:1010:ALA:HB1	1.07	1.09
6:F1:133:GLN:O	9:I1:1389:GLN:HG2	1.48	1.09
9:I1:896:PRO:HA	13:M1:583:ASP:HB3	1.27	1.09
9:I2:981:VAL:HG21	15:O3:171:ASP:O	1.51	1.09
9:I2:1165:SER:HB3	15:O3:269:ILE:HD12	1.33	1.09
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB2	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:345:GLN:HG3	17:Q1:346:LEU:HD22	1.22	1.09
17:Q1:929:LEU:HD11	18:R1:695:ALA:HB2	1.34	1.09
17:Q1:929:LEU:HB3	18:R1:714:TYR:OH	1.50	1.09
17:Q2:509:ALA:HA	17:Q2:516:LEU:HD11	1.19	1.09
17:Q2:552:THR:HA	17:Q2:556:HIS:HB2	1.34	1.09
25:X1:795:LYS:NZ	27:Z1:666:GLU:CA	2.13	1.09
25:X1:815:GLU:CA	26:Y1:1402:LEU:CD2	2.29	1.09
25:X2:745:TYR:CD2	27:Z1:104:SER:HB2	1.86	1.09
25:X2:774:ASN:CG	25:X2:798:ASN:HB2	1.74	1.09
25:X2:778:LYS:HG3	25:X2:795:LYS:H	1.14	1.09
25:X2:807:LEU:HD21	27:Z2:698:ASN:CA	1.82	1.09
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD21	1.29	1.09
25:X2:822:LYS:HB3	27:Z1:262:ASN:ND2	1.63	1.09
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:CG	1.74	1.09
26:Y2:1410:GLN:N	27:Z2:711:LYS:CE	2.14	1.09
26:Y2:1435:LYS:NZ	27:Z2:225:LEU:CD2	2.15	1.09
27:Z1:137:TYR:HB3	27:Z1:269:LYS:HD2	1.10	1.09
27:Z1:647:SER:O	27:Z1:651:LEU:HG	1.50	1.09
27:Z2:213:PRO:HD2	27:Z2:216:LEU:HD22	1.26	1.09
27:Z2:522:GLU:CG	27:Z2:524:GLN:H	1.63	1.09
1:A4:625:LEU:C	4:D3:981:VAL:HG23	1.70	1.09
6:F1:1265:GLN:HB2	15:O2:252:VAL:CG2	1.80	1.09
6:F2:139:GLN:HE22	9:I2:1337:ALA:HA	1.00	1.09
7:G1:253:SER:HA	15:O2:243:LEU:HD23	1.32	1.09
9:I1:911:PRO:HG3	15:O1:202:LEU:CB	1.81	1.09
9:I1:911:PRO:C	13:M1:545:GLU:OE2	1.95	1.09
9:I2:899:LEU:HD21	13:M3:583:ASP:CB	1.53	1.09
9:I2:925:LEU:HD13	15:O3:182:THR:O	1.49	1.09
17:Q1:441:ARG:HH22	17:Q1:508:ASN:HB2	0.95	1.09
22:U1:193:ILE:HG13	27:Z1:664:ARG:CD	1.77	1.09
25:X1:637:LEU:C	26:Y1:1218:PHE:CE2	2.30	1.09
25:X2:697:LEU:N	27:Z2:432:ASN:HD21	1.48	1.09
26:Y2:1124:THR:C	26:Y2:1126:LEU:HD12	1.78	1.09
27:Z1:184:ASP:OD1	27:Z1:197:LEU:CB	1.99	1.09
27:Z2:10:LEU:HD22	27:Z2:431:TRP:CH2	1.88	1.09
27:Z2:287:ILE:HD13	27:Z2:348:LEU:HD12	1.13	1.09
27:Z2:292:GLY:O	27:Z2:295:TYR:CD1	2.05	1.09
1:A3:1332:ARG:HD2	4:D3:899:THR:HG21	1.23	1.09
7:G2:253:SER:CA	15:O4:248:SER:O	1.99	1.09
9:I1:978:LYS:CG	15:O1:176:ARG:HH11	1.65	1.09
9:I2:976:ARG:HE	14:N3:293:LYS:HG2	1.02	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1051:LYS:HB2	14:N3:292:ARG:HD3	1.13	1.09
9:I2:1162:TYR:N	15:O3:266:GLN:HE21	1.51	1.09
17:Q1:382:ARG:N	17:Q1:512:ILE:CB	2.10	1.09
17:Q2:60:VAL:HG23	17:Q2:68:ILE:HD11	1.29	1.09
17:Q2:1078:LEU:HD21	17:Q2:1155:VAL:HG13	1.27	1.09
18:R1:435:PHE:HB3	18:R1:448:ILE:CG1	1.82	1.09
25:X1:655:PHE:CE1	27:Z1:545:LEU:HB3	1.86	1.09
25:X1:726:VAL:O	25:X1:727:SER:HB2	1.39	1.09
25:X2:692:LYS:CG	27:Z2:431:TRP:CH2	2.35	1.09
26:Y1:1434:PHE:CE1	26:Y2:1429:LYS:HD2	1.86	1.09
26:Y2:1126:LEU:HD22	29:b2:63:LYS:C	1.75	1.09
26:Y2:1291:LEU:HD12	27:Z2:581:PHE:CE1	1.88	1.09
27:Z1:13:PHE:CD1	27:Z1:445:LEU:CD2	2.34	1.09
27:Z1:170:ASN:HD21	27:Z1:177:ALA:HB3	0.94	1.09
27:Z1:216:LEU:HD11	27:Z1:272:ILE:HD11	1.12	1.09
27:Z1:404:PRO:HD2	27:Z2:262:ASN:HB3	1.17	1.09
29:b1:75:HIS:ND1	29:b1:90:LYS:CD	2.14	1.09
29:b2:10:ILE:CG2	29:b2:12:LYS:HE2	1.80	1.09
1:A2:1223:GLU:OE1	1:A1:611:ILE:HD13	1.53	1.09
1:A4:1053:ARG:HD3	4:D3:671:ARG:HH21	1.04	1.09
6:F1:1046:HIS:HD2	9:I1:1390:PHE:CD2	1.70	1.09
7:G2:249:ASP:HB2	15:O4:254:ARG:NE	1.68	1.09
9:I1:1543:LEU:CD2	10:J2:300:ILE:HG21	1.81	1.09
9:I1:1667:GLN:HG3	9:I2:1669:ARG:N	1.65	1.09
9:I2:807:LEU:HD12	15:O3:248:SER:CB	1.82	1.09
9:I2:919:ALA:HB1	16:P3:157:GLU:OE1	1.41	1.09
9:I2:1028:CYS:SG	13:M3:613:ASP:OD1	2.11	1.09
9:I2:1305:LEU:HB3	15:O3:264:ILE:HD13	1.11	1.09
17:Q1:945:ARG:HA	17:Q1:948:GLN:HE21	1.10	1.09
17:Q2:346:LEU:HD12	17:Q2:367:ILE:HG12	1.33	1.09
22:U1:297:LEU:C	27:Z1:653:GLN:C	2.15	1.09
25:X2:694:ASP:O	27:Z2:432:ASN:N	1.85	1.09
25:X2:818:ILE:HD13	26:Y2:1405:GLN:HG3	1.27	1.09
26:Y1:1435:LYS:NZ	27:Z1:225:LEU:CD2	2.14	1.09
26:Y1:1443:MET:HE2	27:Z1:332:GLU:OE1	1.40	1.09
26:Y2:1345:LEU:HD23	26:Y2:1348:LYS:HD3	1.28	1.09
27:Z1:137:TYR:CG	27:Z1:215:VAL:HG12	1.84	1.09
27:Z1:184:ASP:OD2	27:Z1:197:LEU:HD23	1.52	1.09
27:Z1:428:TYR:OH	27:Z1:435:SER:CB	1.98	1.09
27:Z1:429:ILE:HB	27:Z1:436:ASN:OD1	1.51	1.09
27:Z2:12:ILE:HD13	27:Z2:54:TYR:CB	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:23:PRO:CA	27:Z2:24:ARG:H	1.65	1.09
27:Z2:26:ILE:CB	27:Z2:440:MET:SD	2.36	1.09
29:b1:38:GLU:OE1	29:b1:61:VAL:HG12	0.93	1.09
1:A3:1201:ARG:HH22	1:A4:646:ILE:HG22	1.00	1.09
1:A3:1330:VAL:O	4:D3:878:ALA:N	1.86	1.09
6:F1:154:SER:HB3	9:I1:1344:GLN:HE21	0.97	1.09
6:F1:163:ASP:H	9:I1:1331:LYS:CB	1.66	1.09
9:I1:965:ALA:HB2	15:O1:185:ALA:CB	1.83	1.09
9:I1:1606:GLU:HG3	9:I2:1669:ARG:NH1	0.77	1.09
9:I2:919:ALA:CA	16:P3:157:GLU:HB3	1.81	1.09
9:I2:1049:LEU:HD11	14:N3:296:GLY:HA2	1.13	1.09
9:I2:1049:LEU:HD13	14:N3:296:GLY:CA	1.61	1.09
9:I2:1103:LEU:HD22	13:M3:614:ASP:CG	1.77	1.09
9:I2:1106:LYS:HB2	15:O3:275:LEU:HG	1.17	1.09
17:Q1:139:ILE:HG22	17:Q1:165:ILE:HB	1.30	1.09
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD21	1.29	1.09
25:X2:697:LEU:H	27:Z2:432:ASN:ND2	1.49	1.09
26:Y1:1122:ILE:HD13	29:b1:87:LEU:CD1	1.79	1.09
26:Y2:1366:LEU:C	26:Y2:1383:ALA:CB	2.26	1.09
26:Y2:1410:GLN:HB3	27:Z2:711:LYS:HE3	1.22	1.09
27:Z1:124:LYS:HD2	27:Z1:126:SER:N	1.67	1.09
27:Z2:137:TYR:HD2	27:Z2:215:VAL:O	1.24	1.09
27:Z2:137:TYR:HB3	27:Z2:269:LYS:HD2	1.10	1.09
27:Z2:184:ASP:OD2	27:Z2:197:LEU:HD23	1.52	1.09
29:b1:16:ILE:CD1	29:b1:77:VAL:CG1	2.30	1.09
29:b2:42:ALA:HB1	29:b2:59:VAL:HG23	1.33	1.09
1:A2:1280:GLN:CB	1:A1:635:ARG:HD2	1.82	1.08
1:A4:1094:ILE:HG23	4:D3:675:LEU:HD21	1.30	1.08
7:G1:253:SER:HA	15:O2:243:LEU:CD2	1.83	1.08
9:I1:904:GLU:N	13:M1:576:LYS:HB3	1.67	1.08
9:I2:981:VAL:HG22	15:O3:175:SER:HB3	1.10	1.08
9:I2:1105:TRP:CE3	15:O3:273:ASP:HA	1.82	1.08
9:I2:1168:ALA:HB2	15:O3:270:THR:HA	1.34	1.08
9:I2:1305:LEU:HD21	15:O3:260:LEU:HD12	1.14	1.08
17:Q1:928:LYS:HE2	18:R1:695:ALA:HB1	1.28	1.08
24:W1:530:LYS:CG	24:W1:745:GLU:C	2.26	1.08
25:X1:821:ILE:CG2	26:Y1:1409:LEU:HD21	1.83	1.08
25:X2:821:ILE:CG2	26:Y2:1409:LEU:CD2	2.32	1.08
26:Y2:1334:LEU:O	27:Z1:108:ALA:HB1	0.91	1.08
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:N	1.39	1.08
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:HB	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1368:LEU:HB2	26:Y2:1382:VAL:O	1.50	1.08
27:Z1:199:THR:O	27:Z1:199:THR:CG2	1.99	1.08
1:A2:1328:ARG:O	4:D1:902:SER:OG	1.72	1.08
1:A3:1070:ASP:OD2	9:I2:1238:LYS:HB3	1.36	1.08
1:A3:1332:ARG:HH11	4:D3:899:THR:HG23	1.03	1.08
1:A4:172:PRO:HB2	4:D3:991:ASP:OD2	1.52	1.08
6:F2:158:PRO:HB3	9:I2:1337:ALA:CB	1.84	1.08
9:I1:1051:LYS:HD3	14:N1:289:PHE:CE2	1.80	1.08
9:I2:895:ARG:H	13:M3:587:GLU:CG	1.46	1.08
9:I2:896:PRO:CG	13:M3:588:MET:HB2	1.82	1.08
9:I2:922:ASP:OD1	15:O3:186:PHE:CA	2.00	1.08
9:I2:965:ALA:HB3	16:P3:152:LYS:HD2	1.33	1.08
9:I2:1104:LEU:N	13:M3:611:LYS:HZ3	1.32	1.08
22:U1:296:LEU:CD1	27:Z1:657:TYR:N	2.16	1.08
25:X1:807:LEU:HD21	27:Z1:698:ASN:CA	1.82	1.08
25:X2:691:ASN:CB	27:Z2:431:TRP:HD1	1.31	1.08
25:X2:751:LEU:HD11	27:Z2:638:ILE:HD13	1.34	1.08
25:X2:807:LEU:HD21	27:Z2:698:ASN:HA	1.12	1.08
25:X2:815:GLU:CA	26:Y2:1402:LEU:CD2	2.30	1.08
26:Y2:1453:PHE:O	26:Y2:1455:ASN:OD1	1.71	1.08
27:Z1:544:THR:OG1	27:Z2:555:GLU:CA	2.01	1.08
27:Z2:209:TYR:CG	27:Z2:335:MET:HA	1.88	1.08
27:Z2:678:ASN:N	27:Z2:678:ASN:CB	2.15	1.08
29:b2:56:THR:HB	29:b2:91:THR:O	1.47	1.08
7:G2:250:THR:H	15:O4:254:ARG:HD2	1.14	1.08
9:I1:908:ARG:HE	15:O1:209:LEU:CD1	1.65	1.08
9:I2:894:VAL:HB	13:M3:587:GLU:CG	1.82	1.08
9:I2:1095:TYR:CE1	15:O3:267:ALA:N	2.21	1.08
17:Q1:922:LEU:HD21	18:R1:688:LEU:HB3	1.36	1.08
25:X2:655:PHE:CE1	27:Z2:545:LEU:HB3	1.86	1.08
25:X2:774:ASN:ND2	25:X2:798:ASN:CG	2.11	1.08
26:Y2:1370:THR:CG2	27:Z2:662:LEU:HD21	1.84	1.08
27:Z1:119:GLU:CA	27:Z1:120:GLU:HB3	1.84	1.08
27:Z1:234:TYR:CB	27:Z1:253:LEU:HD11	1.82	1.08
27:Z1:611:GLN:C	27:Z1:612:ILE:CA	2.25	1.08
27:Z1:679:GLU:N	27:Z1:680:TRP:H	1.50	1.08
27:Z2:416:ASP:HB3	27:Z2:569:LYS:HZ3	1.11	1.08
1:A2:1270:SER:HB3	1:A1:729:SER:O	1.50	1.08
6:F1:143:GLY:O	9:I1:1393:GLY:O	1.71	1.08
6:F1:268:SER:O	9:I1:1202:VAL:N	1.69	1.08
9:I1:908:ARG:HD3	13:M1:552:TYR:N	1.68	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1106:LYS:HE3	13:M1:611:LYS:HG3	1.29	1.08
9:I2:981:VAL:HG21	15:O3:175:SER:HB3	1.28	1.08
9:I2:1031:ALA:CB	13:M3:621:ARG:CZ	2.32	1.08
9:I2:1099:ARG:NH1	13:M3:609:GLY:C	1.98	1.08
13:M3:469:GLU:CB	13:M4:536:GLU:OE1	2.01	1.08
17:Q1:210:LEU:HD11	17:Q1:212:LEU:HD23	1.36	1.08
17:Q1:443:TRP:CD2	17:Q1:504:PHE:CE1	2.41	1.08
17:Q1:553:LEU:HD22	17:Q1:632:LYS:HB3	1.28	1.08
19:R2:661:PRO:HB3	19:R2:710:LYS:HE2	1.34	1.08
25:X2:665:TRP:HE1	26:Y2:1267:GLU:HB3	1.12	1.08
26:Y1:1291:LEU:HD12	27:Z1:581:PHE:CE1	1.88	1.08
27:Z1:292:GLY:O	27:Z1:295:TYR:CD1	2.05	1.08
27:Z1:314:ILE:CG2	27:Z1:326:LEU:HD11	1.84	1.08
27:Z1:389:TRP:CE2	27:Z1:410:PHE:CE1	2.42	1.08
27:Z2:137:TYR:CB	27:Z2:217:LEU:HD21	1.84	1.08
27:Z2:383:GLN:NE2	27:Z2:417:ILE:HG13	1.67	1.08
1:A2:1275:PRO:CD	1:A1:726:ALA:CB	2.32	1.08
6:F1:138:ILE:CG1	9:I1:1388:GLU:O	2.02	1.08
6:F1:139:GLN:HE21	9:I1:1340:LEU:CD1	1.64	1.08
6:F1:1267:ARG:HB2	15:O2:254:ARG:HD2	1.10	1.08
9:I1:908:ARG:HD2	13:M1:552:TYR:CB	1.53	1.08
9:I1:910:LYS:N	13:M1:548:LEU:HD22	1.69	1.08
9:I1:912:VAL:N	13:M1:545:GLU:OE2	1.85	1.08
9:I1:980:ILE:CD1	15:O1:172:ALA:C	2.25	1.08
9:I1:1051:LYS:NZ	14:N1:290:VAL:N	1.85	1.08
9:I1:1606:GLU:HG2	9:I2:1669:ARG:CZ	1.61	1.08
9:I2:1026:TYR:OH	13:M3:608:LYS:CG	2.00	1.08
9:I2:1103:LEU:CG	13:M3:611:LYS:HE3	1.82	1.08
17:Q1:509:ALA:HA	17:Q1:516:LEU:HD11	1.20	1.08
17:Q1:811:LEU:HD22	17:Q1:814:LEU:HG	1.34	1.08
17:Q2:210:LEU:HD11	17:Q2:212:LEU:HD23	1.36	1.08
17:Q2:654:VAL:HG12	17:Q2:666:LYS:HE2	1.34	1.08
17:Q2:969:VAL:HG11	17:Q2:1009:LEU:HD13	1.13	1.08
17:Q2:1091:THR:HG23	17:Q2:1094:TYR:H	1.17	1.08
22:U1:340:LYS:HD2	27:Z1:646:HIS:NE2	1.67	1.08
25:X1:751:LEU:HD13	27:Z1:638:ILE:HG12	1.30	1.08
25:X2:711:LEU:HD21	26:Y2:1309:ASP:CG	1.79	1.08
25:X2:755:LEU:CD1	26:Y2:1349:LEU:HD21	1.82	1.08
26:Y1:1294:LYS:CE	27:Z1:588:TRP:HD1	1.54	1.08
26:Y2:1302:ASP:O	26:Y2:1306:ILE:HG13	1.53	1.08
27:Z1:230:SER:HB3	27:Z1:253:LEU:HD23	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:227:LEU:HD21	27:Z2:256:VAL:HG12	1.14	1.08
27:Z2:389:TRP:CE2	27:Z2:410:PHE:CE1	2.42	1.08
29:b2:77:VAL:O	29:b2:77:VAL:HG23	1.46	1.08
1:A2:1221:ILE:HD11	1:A1:596:ARG:HD2	1.32	1.07
1:A3:1221:ILE:C	1:A4:595:GLU:HG2	1.75	1.07
9:I1:1667:GLN:HG3	9:I2:1669:ARG:H	1.15	1.07
9:I2:963:LEU:HD12	16:P3:148:ALA:O	1.54	1.07
9:I2:1099:ARG:CG	15:O3:268:GLY:HA2	1.84	1.07
9:I2:1168:ALA:HB2	15:O3:269:ILE:C	1.58	1.07
9:I2:1305:LEU:CB	15:O3:264:ILE:CD1	1.97	1.07
17:Q1:60:VAL:HG23	17:Q1:68:ILE:HD11	1.29	1.07
17:Q1:381:TYR:C	17:Q1:512:ILE:HG13	1.78	1.07
17:Q1:552:THR:HA	17:Q1:556:HIS:HB2	1.34	1.07
25:X1:795:LYS:HE2	27:Z1:666:GLU:HA	1.17	1.07
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:CB	2.29	1.07
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:HE3	1.19	1.07
6:F1:141:ALA:HA	9:I1:1390:PHE:CG	1.89	1.07
9:I1:904:GLU:HG3	13:M1:573:ARG:O	1.49	1.07
9:I1:1051:LYS:HZ2	14:N1:290:VAL:HG22	0.96	1.07
17:Q1:384:ASN:HA	17:Q1:510:ASN:N	1.69	1.07
17:Q2:928:LYS:HE2	19:R2:695:ALA:HB1	1.31	1.07
18:R1:409:LYS:NZ	18:R1:448:ILE:CA	2.17	1.07
25:X1:711:LEU:HD21	26:Y1:1309:ASP:CG	1.79	1.07
25:X1:742:GLN:HG2	25:X1:743:GLN:N	1.63	1.07
25:X1:755:LEU:CD1	26:Y1:1349:LEU:HD21	1.83	1.07
25:X1:770:ASN:O	25:X1:774:ASN:OD1	1.70	1.07
25:X2:778:LYS:HG3	25:X2:795:LYS:N	1.60	1.07
26:Y1:1122:ILE:CG1	29:b1:67:SER:OG	2.02	1.07
26:Y2:1316:GLU:OE2	27:Z2:609:LEU:HD22	1.53	1.07
26:Y2:1333:ASP:CA	26:Y2:1333:ASP:N	2.17	1.07
26:Y2:1334:LEU:C	27:Z1:108:ALA:HB3	1.66	1.07
27:Z1:393:LEU:HD21	27:Z1:405:LEU:HD22	1.29	1.07
29:b1:55:ASN:OD1	29:b1:90:LYS:HE3	1.54	1.07
1:A2:1200:ARG:HB3	1:A1:595:GLU:HB2	1.10	1.07
1:A2:1228:TYR:OH	1:A1:642:ARG:HB3	0.89	1.07
9:I1:909:ARG:C	13:M1:548:LEU:CD2	2.27	1.07
9:I1:917:TYR:OH	13:M1:534:GLN:C	1.97	1.07
9:I1:1316:ALA:C	15:O1:269:ILE:HD11	1.78	1.07
9:I2:807:LEU:CD1	15:O3:248:SER:CB	2.30	1.07
9:I2:1034:ASP:HA	15:O3:284:LYS:HE2	1.32	1.07
17:Q1:969:VAL:HG11	17:Q1:1009:LEU:HD13	1.13	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:922:LEU:CD2	19:R2:688:LEU:HB2	1.80	1.07
17:Q2:1007:SER:HB2	17:Q2:1044:ARG:HD3	1.36	1.07
17:Q2:1068:GLU:HB2	17:Q2:1070:LEU:HD22	1.36	1.07
26:Y1:1345:LEU:HD23	26:Y1:1348:LYS:HD3	1.28	1.07
26:Y2:1321:MET:CB	27:Z1:51:ASP:H	1.58	1.07
26:Y2:1333:ASP:N	27:Z1:94:PRO:N	2.00	1.07
27:Z1:252:GLN:HE21	27:Z1:335:MET:HG2	1.19	1.07
27:Z1:303:ALA:HB2	27:Z1:363:LEU:CD2	1.72	1.07
27:Z2:137:TYR:CA	27:Z2:217:LEU:CD2	2.32	1.07
29:b1:16:ILE:HG22	29:b1:74:GLY:O	1.54	1.07
29:b1:77:VAL:O	29:b1:77:VAL:HG23	1.43	1.07
29:b2:10:ILE:HG22	29:b2:12:LYS:HE2	1.36	1.07
1:A2:1220:PRO:O	1:A1:599:ARG:HD2	1.25	1.07
1:A3:937:ASP:CG	9:I2:815:ILE:HG23	1.78	1.07
6:F1:135:VAL:CG1	9:I1:1336:MET:HG3	1.61	1.07
6:F1:153:LEU:HD23	9:I1:1395:LEU:HD21	1.34	1.07
9:I1:1048:GLU:HG3	14:N1:293:LYS:HE3	1.29	1.07
9:I2:1026:TYR:OH	13:M3:608:LYS:C	1.98	1.07
9:I2:1033:PRO:HG2	13:M3:619:ILE:H	1.06	1.07
9:I2:1051:LYS:HD2	14:N3:289:PHE:CD1	1.90	1.07
9:I2:1109:LEU:HB2	15:O3:284:LYS:HD2	1.35	1.07
17:Q2:594:LEU:HD23	17:Q2:639:PRO:HD2	1.35	1.07
22:U1:209:PRO:HG3	27:Z1:662:LEU:HB2	1.09	1.07
25:X2:690:GLN:HE22	27:Z2:577:LEU:HB3	1.20	1.07
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD21	1.83	1.07
26:Y1:1363:LEU:HD23	26:Y1:1366:LEU:HD12	1.36	1.07
26:Y2:1218:PHE:HE1	26:Y2:1222:GLU:OE2	1.37	1.07
26:Y2:1332:LYS:CB	27:Z1:97:TYR:HB2	1.83	1.07
27:Z1:137:TYR:CB	27:Z1:217:LEU:HD21	1.84	1.07
27:Z1:209:TYR:CG	27:Z1:335:MET:HA	1.88	1.07
27:Z1:307:ILE:HD11	27:Z1:386:PHE:CE2	1.89	1.07
27:Z2:178:ARG:HH21	27:Z2:280:LYS:HD3	1.17	1.07
27:Z2:372:LYS:HG2	27:Z2:385:ASN:OD1	1.55	1.07
29:b1:42:ALA:O	29:b1:59:VAL:HG21	1.51	1.07
6:F2:137:ASN:HA	9:I2:1388:GLU:O	1.54	1.07
7:G1:251:TYR:CE1	15:O2:248:SER:CB	2.38	1.07
9:I1:925:LEU:CD1	15:O1:184:ARG:CB	2.26	1.07
17:Q1:443:TRP:CG	17:Q1:504:PHE:CE1	2.28	1.07
22:U1:241:ARG:HB3	27:Z1:656:SER:CB	1.83	1.07
25:X1:821:ILE:CG2	26:Y1:1409:LEU:CD2	2.32	1.07
25:X2:693:ILE:HB	27:Z2:7:LEU:HG	1.10	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:765:LEU:HD22	27:Z2:652:GLN:OE1	1.47	1.07
25:X2:778:LYS:HE3	25:X2:791:ILE:HG22	1.17	1.07
26:Y1:1370:THR:CG2	27:Z1:662:LEU:HD21	1.83	1.07
26:Y1:1371:VAL:HB	26:Y1:1372:LYS:HD3	1.34	1.07
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:NZ	1.68	1.07
27:Z1:128:LYS:CE	27:Z1:147:GLU:HA	1.85	1.07
27:Z1:581:PHE:C	27:Z1:581:PHE:H	1.59	1.07
27:Z2:227:LEU:HD23	27:Z2:256:VAL:HG11	1.09	1.07
27:Z2:314:ILE:CG2	27:Z2:326:LEU:HD11	1.84	1.07
1:A2:1223:GLU:OE1	1:A1:611:ILE:CD1	2.04	1.06
1:A2:1386:GLU:OE2	1:A1:728:LYS:HE3	1.50	1.06
6:F1:135:VAL:CG1	9:I1:1336:MET:HB3	1.82	1.06
7:G2:253:SER:HA	15:O4:248:SER:O	1.53	1.06
9:I1:980:ILE:HD11	15:O1:172:ALA:O	1.52	1.06
9:I2:809:HIS:HE2	15:O3:243:LEU:CG	1.67	1.06
9:I2:896:PRO:CD	13:M3:588:MET:HB2	1.84	1.06
9:I2:922:ASP:OD1	15:O3:186:PHE:HA	1.53	1.06
9:I2:976:ARG:HA	14:N3:297:ALA:N	1.69	1.06
10:J1:252:LEU:HD13	15:O1:273:ASP:HB3	1.37	1.06
17:Q2:791:VAL:HG13	17:Q2:792:LEU:HD12	1.36	1.06
22:U1:289:GLN:CD	25:X1:794:ILE:HA	1.78	1.06
25:X1:648:LEU:HB2	27:Z2:547:VAL:HG11	1.37	1.06
25:X1:658:TYR:HD2	27:Z1:549:ILE:HD13	0.90	1.06
25:X2:770:ASN:O	25:X2:774:ASN:OD1	1.70	1.06
26:Y1:1218:PHE:HE1	26:Y1:1222:GLU:OE2	1.37	1.06
26:Y2:1122:ILE:CA	29:b1:39:ARG:NH1	2.16	1.06
26:Y2:1211:LEU:CD1	26:Y2:1214:ILE:CD1	2.27	1.06
26:Y2:1333:ASP:H	27:Z1:94:PRO:HA	1.05	1.06
26:Y2:1392:ARG:HH12	27:Z2:690:ASP:HA	0.98	1.06
27:Z1:10:LEU:HD22	27:Z1:431:TRP:CH2	1.88	1.06
27:Z1:12:ILE:HD13	27:Z1:54:TYR:CB	1.83	1.06
27:Z1:137:TYR:CA	27:Z1:217:LEU:CD2	2.32	1.06
27:Z1:217:LEU:HD21	27:Z1:269:LYS:HD3	1.07	1.06
27:Z1:389:TRP:CZ2	27:Z1:410:PHE:HE1	1.73	1.06
27:Z2:307:ILE:HD11	27:Z2:386:PHE:CE2	1.89	1.06
27:Z2:429:ILE:CG2	27:Z2:431:TRP:NE1	2.18	1.06
1:A2:1220:PRO:O	1:A1:599:ARG:CG	2.02	1.06
1:A2:1313:LYS:NZ	1:A1:728:LYS:HZ1	1.54	1.06
1:A3:1090:SER:O	4:D3:1100:PRO:HG3	1.52	1.06
1:A3:1328:ARG:CG	4:D3:872:LEU:HD22	1.84	1.06
4:D1:673:LEU:HD12	1:A1:1094:ILE:HD11	1.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:135:VAL:HG11	9:I1:1336:MET:HB3	1.14	1.06
6:F1:272:GLU:C	9:I1:1209:THR:H	1.63	1.06
7:G1:253:SER:N	13:M2:595:MET:HE1	1.69	1.06
7:G1:255:LEU:CB	15:O2:246:LEU:N	2.11	1.06
9:I2:1027:ALA:C	13:M3:612:PRO:C	2.22	1.06
9:I2:1049:LEU:CD1	16:P3:141:ALA:C	2.28	1.06
17:Q1:417:LEU:HD22	17:Q1:426:ILE:HG22	1.37	1.06
17:Q1:1091:THR:HG23	17:Q1:1094:TYR:H	1.17	1.06
19:R2:707:SER:HA	19:R2:711:LEU:HD13	1.29	1.06
20:S1:571:ALA:CB	21:T1:86:ASN:CB	2.25	1.06
24:W1:526:ARG:HD3	24:W1:740:PHE:CB	1.84	1.06
24:W1:534:ASP:CG	24:W1:746:CYS:O	1.98	1.06
25:X2:714:PHE:HZ	26:Y2:1316:GLU:HG3	0.97	1.06
26:Y1:1455:ASN:C	26:Y1:1455:ASN:CB	2.28	1.06
26:Y2:1123:GLN:NE2	29:b1:37:LEU:HD11	1.69	1.06
26:Y2:1291:LEU:HD11	27:Z2:581:PHE:HD1	1.00	1.06
27:Z1:129:LYS:HD3	27:Z1:145:LEU:CD2	1.85	1.06
27:Z1:541:LYS:HB2	27:Z2:550:HIS:C	1.65	1.06
27:Z1:682:GLU:CD	27:Z2:650:SER:OG	1.98	1.06
27:Z2:15:ALA:C	27:Z2:15:ALA:HA	1.79	1.06
1:A3:1332:ARG:HD2	4:D3:899:THR:HG23	1.29	1.06
1:A3:1400:SER:N	4:D3:869:THR:CG2	2.17	1.06
1:A4:624:ASP:O	4:D3:980:ARG:HD2	1.51	1.06
7:G1:249:ASP:O	13:M2:595:MET:HE3	1.53	1.06
9:I1:965:ALA:HB2	15:O1:185:ALA:H	1.14	1.06
9:I1:1049:LEU:HB3	15:O1:170:LEU:HB3	1.36	1.06
9:I1:1050:SER:C	14:N1:293:LYS:HD3	1.81	1.06
9:I2:896:PRO:CB	13:M3:588:MET:HE3	1.86	1.06
17:Q1:386:PHE:HZ	17:Q1:563:PHE:HA	0.93	1.06
17:Q1:441:ARG:NH2	17:Q1:508:ASN:HB2	1.67	1.06
17:Q1:448:SER:HB3	17:Q1:546:ILE:HG21	1.07	1.06
17:Q1:824:ASN:HA	17:Q1:827:THR:HB	1.30	1.06
24:W1:527:SER:N	24:W1:739:PHE:O	1.88	1.06
25:X2:822:LYS:HA	27:Z1:262:ASN:ND2	1.51	1.06
26:Y1:1118:ALA:HB1	29:b1:71:HIS:CE1	1.89	1.06
26:Y2:1362:LEU:HD23	26:Y2:1387:LYS:HG3	1.38	1.06
27:Z1:216:LEU:HD21	27:Z1:272:ILE:HD12	1.23	1.06
27:Z2:34:ARG:HG3	27:Z2:95:TRP:CH2	1.91	1.06
27:Z2:128:LYS:CE	27:Z2:147:GLU:HA	1.85	1.06
27:Z2:197:LEU:C	27:Z2:198:ASN:CA	2.27	1.06
27:Z2:218:LEU:HD12	27:Z2:223:LEU:HD21	1.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:827:ILE:HD13	1:A1:849:SER:CA	1.86	1.06
1:A1:827:ILE:HD13	1:A1:849:SER:N	1.69	1.06
7:G1:253:SER:H	13:M2:595:MET:HE1	1.10	1.06
9:I1:1051:LYS:HD3	14:N1:289:PHE:HE2	1.15	1.06
9:I2:809:HIS:CD2	15:O3:244:GLU:H	1.71	1.06
9:I2:895:ARG:HG2	13:M3:584:GLN:O	1.45	1.06
9:I2:965:ALA:CB	16:P3:152:LYS:HD2	1.84	1.06
9:I2:1098:LEU:CD2	15:O3:269:ILE:HG23	1.85	1.06
9:I2:1103:LEU:CD1	13:M3:614:ASP:HB3	1.85	1.06
9:I2:1168:ALA:HB1	15:O3:269:ILE:C	1.81	1.06
17:Q1:197:GLU:HG2	17:Q1:199:PRO:HD3	1.31	1.06
17:Q1:451:ASN:H	17:Q1:548:PRO:HB2	1.16	1.06
17:Q1:891:ILE:HD13	18:R1:715:LEU:HD22	1.31	1.06
17:Q2:922:LEU:CD1	19:R2:688:LEU:O	2.04	1.06
17:Q2:929:LEU:CD1	19:R2:695:ALA:HB2	1.84	1.06
25:X2:717:LYS:HB3	26:Y2:1320:LEU:HD11	1.37	1.06
26:Y2:1117:TYR:OH	29:b2:70:THR:O	1.72	1.06
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:HD12	1.71	1.06
27:Z1:55:HIS:HE1	27:Z1:98:SER:OG	1.29	1.06
27:Z1:217:LEU:HD22	27:Z1:269:LYS:HD3	1.17	1.06
27:Z1:372:LYS:HG2	27:Z1:385:ASN:OD1	1.55	1.06
27:Z1:424:PRO:HG3	27:Z1:439:LEU:HD21	1.37	1.06
27:Z2:129:LYS:HD3	27:Z2:145:LEU:CD2	1.85	1.06
1:A2:1224:PRO:CG	1:A1:648:TYR:OH	2.04	1.06
1:A2:1331:GLU:HA	4:D1:903:ILE:HG13	1.36	1.06
9:I1:911:PRO:HG3	15:O1:202:LEU:CD1	1.76	1.06
9:I1:1051:LYS:HB3	14:N1:293:LYS:NZ	1.69	1.06
9:I1:1669:ARG:HD3	9:I2:1611:PHE:O	1.53	1.06
9:I2:806:VAL:CG1	15:O3:248:SER:N	2.18	1.06
9:I2:899:LEU:CD2	13:M3:583:ASP:HB3	1.85	1.06
9:I2:902:GLN:CB	13:M3:580:LYS:HB3	1.52	1.06
9:I2:928:LEU:HD22	15:O3:179:LEU:HD23	1.34	1.06
9:I2:976:ARG:NH2	14:N3:293:LYS:HD3	1.67	1.06
9:I2:1255:HIS:CE1	14:N3:407:ALA:HB3	1.90	1.06
25:X1:818:ILE:CD1	26:Y1:1405:GLN:CG	2.34	1.06
25:X2:775:THR:HA	25:X2:794:ILE:HD13	1.11	1.06
26:Y2:1122:ILE:HA	29:b1:39:ARG:NH1	1.69	1.06
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CG	1.86	1.06
27:Z1:197:LEU:C	27:Z1:198:ASN:CA	2.27	1.06
27:Z1:544:THR:HG23	27:Z2:558:PHE:N	1.68	1.06
29:b1:16:ILE:HG12	29:b1:21:LYS:HE3	1.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:247:ASP:CA	15:O2:247:TRP:CH2	2.17	1.05
7:G2:252:LEU:O	15:O4:252:VAL:CG2	2.04	1.05
9:I1:1049:LEU:HD23	15:O1:170:LEU:HD22	1.37	1.05
9:I2:916:ALA:CB	15:O3:189:ARG:O	0.76	1.05
9:I2:964:SER:N	16:P3:152:LYS:CG	2.19	1.05
13:M3:469:GLU:CD	13:M4:536:GLU:OE1	1.98	1.05
17:Q2:811:LEU:HD22	17:Q2:814:LEU:HG	1.34	1.05
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HZ2	1.60	1.05
25:X1:714:PHE:HZ	27:Z1:609:LEU:HD21	1.18	1.05
25:X1:818:ILE:HD13	26:Y1:1405:GLN:CG	1.86	1.05
25:X2:644:TRP:O	27:Z2:535:PHE:CZ	2.02	1.05
27:Z1:137:TYR:HA	27:Z1:217:LEU:CD2	1.87	1.05
27:Z1:178:ARG:HH21	27:Z1:280:LYS:HD3	1.17	1.05
27:Z1:227:LEU:HD21	27:Z1:256:VAL:HG12	1.14	1.05
27:Z1:264:ASN:ND2	27:Z1:267:PHE:HD2	1.53	1.05
27:Z1:544:THR:HG23	27:Z2:558:PHE:CB	1.84	1.05
27:Z2:10:LEU:CD2	27:Z2:431:TRP:HH2	1.48	1.05
27:Z2:94:PRO:HB3	27:Z2:109:PHE:CZ	1.91	1.05
27:Z2:343:VAL:HB	27:Z2:346:ASN:ND2	1.70	1.05
27:Z2:424:PRO:CG	27:Z2:439:LEU:HD21	1.86	1.05
27:Z2:522:GLU:CG	27:Z2:524:GLN:N	2.18	1.05
1:A2:1280:GLN:HB3	1:A1:635:ARG:HD2	1.10	1.05
6:F1:153:LEU:CD2	9:I1:1395:LEU:HD21	1.84	1.05
9:I1:911:PRO:C	13:M1:541:LEU:HD23	1.81	1.05
9:I2:1168:ALA:HB1	15:O3:269:ILE:O	1.54	1.05
17:Q1:791:VAL:HG13	17:Q1:792:LEU:HD12	1.37	1.05
25:X1:658:TYR:CZ	25:X1:662:ILE:HD11	1.90	1.05
25:X1:690:GLN:NE2	27:Z1:577:LEU:HB3	1.71	1.05
25:X1:788:ASP:O	25:X1:792:GLN:NE2	1.88	1.05
25:X1:789:GLU:CG	27:Z1:680:TRP:CE2	2.38	1.05
25:X2:774:ASN:HB2	25:X2:794:ILE:O	0.89	1.05
25:X2:815:GLU:HG3	26:Y2:1402:LEU:HD21	1.33	1.05
26:Y1:1302:ASP:O	26:Y1:1306:ILE:HG13	1.53	1.05
26:Y1:1403:ARG:HH21	27:Z1:700:GLU:C	1.64	1.05
26:Y1:1431:MET:N	26:Y1:1434:PHE:CE2	2.24	1.05
27:Z1:10:LEU:CD2	27:Z1:431:TRP:HH2	1.48	1.05
27:Z1:34:ARG:HG3	27:Z1:95:TRP:CH2	1.91	1.05
27:Z1:170:ASN:HD21	27:Z1:177:ALA:CB	1.67	1.05
27:Z1:192:LEU:CD1	27:Z1:226:ILE:HD11	1.85	1.05
27:Z1:541:LYS:CD	27:Z2:549:ILE:O	2.04	1.05
27:Z2:137:TYR:HD2	27:Z2:215:VAL:C	1.47	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b1:16:ILE:HG12	29:b1:21:LYS:CE	1.87	1.05
1:A2:1204:TRP:HD1	1:A1:599:ARG:HB2	1.19	1.05
1:A2:1229:VAL:HG22	1:A1:640:LEU:N	1.72	1.05
6:F1:163:ASP:N	9:I1:1331:LYS:HB2	1.72	1.05
9:I1:897:GLU:HA	13:M1:580:LYS:HG2	1.24	1.05
9:I1:910:LYS:C	13:M1:545:GLU:CG	2.28	1.05
9:I1:917:TYR:HD1	13:M1:534:GLN:CD	1.47	1.05
9:I1:1543:LEU:HD23	10:J2:300:ILE:CG2	1.87	1.05
9:I2:923:GLY:CA	15:O3:190:ARG:HH21	1.70	1.05
25:X2:692:LYS:CA	27:Z2:431:TRP:CD2	2.11	1.05
25:X2:694:ASP:CB	27:Z2:431:TRP:HB3	1.86	1.05
25:X2:778:LYS:HD3	25:X2:795:LYS:HB2	1.23	1.05
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:CD2	2.18	1.05
26:Y2:1317:TYR:CD1	27:Z1:48:VAL:O	2.09	1.05
26:Y2:1412:GLU:HG3	27:Z1:254:GLN:HB2	1.36	1.05
26:Y2:1435:LYS:HE3	27:Z2:225:LEU:CD2	1.84	1.05
27:Z1:34:ARG:HD2	27:Z1:47:ASN:HD22	0.93	1.05
27:Z1:241:THR:HG21	27:Z1:246:LYS:HG2	1.29	1.05
27:Z1:424:PRO:CG	27:Z1:439:LEU:HD21	1.86	1.05
27:Z1:429:ILE:CG2	27:Z1:431:TRP:NE1	2.18	1.05
27:Z1:534:GLU:HB3	27:Z2:545:LEU:HA	1.37	1.05
27:Z2:34:ARG:HD2	27:Z2:47:ASN:HD22	0.93	1.05
27:Z2:192:LEU:CD1	27:Z2:226:ILE:HD11	1.85	1.05
27:Z2:303:ALA:HB2	27:Z2:363:LEU:CD2	1.72	1.05
1:A2:1204:TRP:CD1	1:A1:599:ARG:CA	2.39	1.05
1:A2:1280:GLN:HB3	1:A1:635:ARG:CD	1.86	1.05
1:A4:827:ILE:HD13	1:A4:849:SER:N	1.69	1.05
6:F1:1137:GLN:O	15:O2:237:PRO:HG3	1.52	1.05
9:I1:977:ASN:ND2	15:O1:178:ASP:H	1.53	1.05
9:I2:806:VAL:HG11	15:O3:247:TRP:C	1.80	1.05
9:I2:925:LEU:CD1	15:O3:182:THR:O	2.05	1.05
9:I2:1107:SER:CB	13:M3:615:PRO:CB	2.28	1.05
17:Q1:553:LEU:HD13	17:Q1:629:LEU:HD22	1.39	1.05
17:Q1:594:LEU:HD23	17:Q1:639:PRO:HD2	1.35	1.05
17:Q1:919:GLU:OE1	18:R1:683:PHE:CD2	2.09	1.05
17:Q1:1068:GLU:HB2	17:Q1:1070:LEU:HD22	1.36	1.05
17:Q2:476:GLN:OE1	17:Q2:514:PHE:HE1	1.38	1.05
18:R1:406:GLU:CB	18:R1:447:PHE:HD1	1.60	1.05
22:U1:207:LYS:CD	27:Z1:663:THR:O	0.76	1.05
22:U1:212:LYS:NZ	25:X1:768:GLU:CG	2.16	1.05
25:X1:751:LEU:HD11	27:Z1:638:ILE:HD13	1.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:823:LYS:NZ	27:Z1:215:VAL:HA	1.71	1.05
26:Y1:1316:GLU:OE2	27:Z1:609:LEU:HD22	1.53	1.05
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:CD2	1.84	1.05
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:HB2	1.91	1.05
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:HD22	1.87	1.05
27:Z1:395:LYS:CG	27:Z2:266:ARG:HG2	1.86	1.05
27:Z2:120:GLU:O	27:Z2:124:LYS:HG2	1.57	1.05
27:Z2:416:ASP:CB	27:Z2:569:LYS:HE2	1.87	1.05
1:A3:1204:TRP:CD1	1:A4:648:TYR:CE1	2.26	1.05
9:I1:909:ARG:H	15:O1:205:ARG:HD3	1.20	1.05
9:I2:981:VAL:HG22	15:O3:175:SER:CB	1.80	1.05
9:I2:1026:TYR:CE1	13:M3:609:GLY:CA	2.40	1.05
17:Q1:346:LEU:HD12	17:Q1:367:ILE:HG12	1.33	1.05
17:Q1:444:GLU:OE1	17:Q1:508:ASN:HB2	1.56	1.05
22:U1:300:HIS:CE1	27:Z1:649:LYS:HB3	1.92	1.05
25:X1:798:ASN:O	26:Y1:1372:LYS:N	1.85	1.05
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD22	1.38	1.05
25:X2:638:ASP:N	27:Z2:528:PHE:HZ	1.54	1.05
25:X2:658:TYR:CZ	25:X2:662:ILE:HD11	1.91	1.05
25:X2:680:TYR:OH	27:Z2:439:LEU:CD1	2.04	1.05
25:X2:714:PHE:HZ	27:Z2:609:LEU:HD21	1.18	1.05
25:X2:818:ILE:HD13	26:Y2:1405:GLN:CG	1.86	1.05
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CA	1.63	1.05
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:N	1.70	1.05
26:Y2:1366:LEU:C	26:Y2:1383:ALA:HB3	1.77	1.05
27:Z1:326:LEU:HB3	27:Z1:352:GLU:HG2	1.36	1.05
27:Z1:541:LYS:NZ	27:Z2:553:ILE:HG13	1.69	1.05
27:Z2:35:ILE:CG1	27:Z2:46:TYR:OH	2.05	1.05
27:Z2:389:TRP:CZ2	27:Z2:410:PHE:HE1	1.73	1.05
6:F1:161:ALA:H	9:I1:1335:LYS:CA	1.70	1.04
6:F1:1392:LEU:CD2	15:O2:259:ASP:CG	2.22	1.04
9:I1:842:ASN:ND2	13:M1:542:ASP:OD2	1.89	1.04
9:I1:913:ALA:N	13:M1:541:LEU:HD22	1.71	1.04
9:I2:810:GLU:N	15:O3:244:GLU:CB	2.19	1.04
9:I2:1253:GLY:N	14:N3:410:MET:H	1.54	1.04
10:J1:249:ASP:CB	15:O1:272:SER:O	2.03	1.04
17:Q1:725:PHE:HB2	17:Q1:744:LYS:HE3	1.35	1.04
18:R1:530:ILE:HA	18:R1:549:PHE:HE2	1.22	1.04
18:R1:627:THR:HG21	18:R1:663:LEU:HD13	1.38	1.04
19:R2:684:ILE:HD13	19:R2:722:ALA:HA	1.39	1.04
22:U1:289:GLN:HG2	25:X1:794:ILE:HA	1.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:818:ILE:CD1	26:Y2:1405:GLN:CG	2.34	1.04
26:Y1:1383:ALA:CA	26:Y2:1361:GLU:HA	1.83	1.04
26:Y2:1403:ARG:HH21	27:Z2:700:GLU:C	1.64	1.04
26:Y2:1431:MET:N	26:Y2:1434:PHE:CE2	2.24	1.04
27:Z1:24:ARG:NH2	27:Z1:440:MET:SD	2.19	1.04
27:Z1:227:LEU:HD23	27:Z1:256:VAL:HG11	1.09	1.04
27:Z1:356:LEU:HD13	27:Z1:358:ARG:NH2	1.70	1.04
27:Z2:137:TYR:HA	27:Z2:217:LEU:CD2	1.86	1.04
27:Z2:170:ASN:HD21	27:Z2:177:ALA:CB	1.67	1.04
27:Z2:170:ASN:HD21	27:Z2:177:ALA:HB3	0.94	1.04
27:Z2:209:TYR:CD1	27:Z2:335:MET:HA	1.93	1.04
27:Z2:326:LEU:HB3	27:Z2:352:GLU:HG2	1.36	1.04
1:A3:1332:ARG:NE	4:D3:903:ILE:CG1	1.89	1.04
6:F1:158:PRO:HG3	9:I1:1340:LEU:H	0.87	1.04
9:I2:964:SER:CA	16:P3:152:LYS:HB2	1.87	1.04
9:I2:978:LYS:CA	15:O3:174:LEU:O	2.05	1.04
20:S1:568:ALA:HA	21:T1:86:ASN:OD1	1.55	1.04
22:U1:289:GLN:CD	25:X1:794:ILE:CB	2.30	1.04
26:Y1:1385:LEU:HD11	27:Z1:683:LEU:CD2	1.88	1.04
27:Z1:35:ILE:CG1	27:Z1:46:TYR:OH	2.05	1.04
27:Z1:137:TYR:HB3	27:Z1:269:LYS:CD	1.77	1.04
27:Z1:149:ASP:CG	27:Z1:182:ILE:CG2	2.31	1.04
27:Z2:241:THR:HG22	27:Z2:246:LYS:HG3	1.39	1.04
27:Z2:252:GLN:HB2	27:Z2:335:MET:HE3	1.33	1.04
1:A1:827:ILE:CG1	1:A1:849:SER:HA	1.87	1.04
1:A3:1399:ARG:CD	4:D3:866:PHE:HD1	1.69	1.04
1:A4:827:ILE:CG1	1:A4:849:SER:HA	1.87	1.04
6:F1:135:VAL:O	9:I1:1392:VAL:HB	1.56	1.04
7:G1:251:TYR:CE2	15:O2:244:GLU:CA	2.40	1.04
7:G2:252:LEU:H	15:O4:251:ILE:CG2	1.68	1.04
9:I1:838:GLU:HG2	15:O1:198:ARG:NE	1.61	1.04
9:I1:1357:LYS:HZ1	15:O1:263:GLN:CB	1.68	1.04
9:I2:896:PRO:HD3	13:M3:588:MET:HB2	1.39	1.04
17:Q1:384:ASN:HA	17:Q1:510:ASN:H	0.89	1.04
17:Q2:891:ILE:HD11	19:R2:715:LEU:HD21	1.08	1.04
20:S1:571:ALA:CB	21:T1:86:ASN:HD22	1.69	1.04
25:X2:690:GLN:NE2	27:Z2:577:LEU:HB3	1.72	1.04
25:X2:700:ILE:HB	26:Y2:1298:TYR:CD1	1.92	1.04
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CB	2.41	1.04
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:CA	1.86	1.04
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:HD22	0.72	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:128:LYS:HE3	27:Z1:147:GLU:HA	1.07	1.04
27:Z1:209:TYR:CD1	27:Z1:335:MET:HA	1.93	1.04
27:Z1:325:ILE:CG2	27:Z1:350:LEU:HD13	1.87	1.04
27:Z1:538:ARG:HA	27:Z2:551:ASN:N	1.66	1.04
27:Z2:149:ASP:CG	27:Z2:182:ILE:CG2	2.31	1.04
27:Z2:217:LEU:HD21	27:Z2:269:LYS:HD3	1.08	1.04
29:b1:16:ILE:HD13	29:b1:77:VAL:CG1	1.87	1.04
1:A2:1269:ALA:O	1:A1:731:ILE:HG13	1.55	1.04
1:A3:1328:ARG:HG2	4:D3:872:LEU:CD2	1.86	1.04
6:F2:143:GLY:N	9:I2:1395:LEU:HD23	1.59	1.04
9:I2:843:GLU:H	15:O3:191:ARG:NH2	1.53	1.04
9:I2:1048:GLU:OE2	14:N3:293:LYS:HE2	1.58	1.04
17:Q1:214:CYS:HB3	17:Q1:281:ARG:HD2	1.40	1.04
17:Q2:960:ILE:HG23	17:Q2:991:LEU:HD11	1.40	1.04
22:U1:192:ILE:N	27:Z1:664:ARG:NH1	1.86	1.04
22:U1:209:PRO:HG3	27:Z1:658:LEU:O	1.52	1.04
22:U1:209:PRO:CD	27:Z1:662:LEU:H	1.69	1.04
22:U1:296:LEU:CD1	27:Z1:657:TYR:H	1.69	1.04
24:W1:403:ASP:HB2	24:W1:723:PHE:O	1.33	1.04
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CG	1.88	1.04
25:X2:645:THR:N	27:Z2:535:PHE:HE2	1.56	1.04
25:X2:695:GLN:CB	27:Z2:48:VAL:CG1	1.78	1.04
25:X2:777:ASN:C	25:X2:789:GLU:O	1.87	1.04
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:HD22	1.87	1.04
27:Z1:395:LYS:HG2	27:Z2:266:ARG:HG2	1.39	1.04
27:Z2:45:TRP:NE1	27:Z2:95:TRP:HZ3	1.56	1.04
27:Z2:94:PRO:CD	27:Z2:94:PRO:N	2.14	1.04
27:Z2:252:GLN:HE21	27:Z2:335:MET:HG2	1.19	1.04
29:b2:75:HIS:ND1	29:b2:90:LYS:HB3	1.73	1.04
1:A2:1227:PRO:HD3	1:A1:647:GLU:CG	1.88	1.04
6:F2:176:ARG:CZ	9:I2:1207:PRO:HD3	1.87	1.04
7:G1:251:TYR:HE1	15:O2:248:SER:HB3	1.17	1.04
9:I1:838:GLU:HG3	15:O1:198:ARG:HE	0.90	1.04
9:I1:1609:GLY:O	9:I2:1677:LYS:NZ	1.89	1.04
9:I2:892:HIS:HB2	13:M3:591:ASP:OD2	0.87	1.04
9:I2:928:LEU:HD22	15:O3:179:LEU:CD2	1.69	1.04
9:I2:976:ARG:HA	14:N3:296:GLY:C	1.83	1.04
9:I2:1103:LEU:CA	13:M3:611:LYS:HZ1	1.69	1.04
9:I2:1106:LYS:HE2	14:N3:430:ARG:HH11	0.87	1.04
14:N3:264:ARG:HG2	14:N4:334:LEU:HD22	1.36	1.04
17:Q1:960:ILE:HG23	17:Q1:991:LEU:HD11	1.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:380:ILE:O	27:Z2:380:ILE:CG2	2.03	1.04
29:b2:16:ILE:HD13	29:b2:77:VAL:HG13	1.04	1.04
1:A2:1229:VAL:CG2	1:A1:639:ASN:C	2.25	1.03
1:A3:1204:TRP:CD1	1:A4:595:GLU:HG3	1.91	1.03
1:A4:1027:HIS:HE1	4:D3:478:ALA:CB	1.67	1.03
9:I1:904:GLU:H	13:M1:576:LYS:HB3	0.89	1.03
9:I2:889:THR:H	13:M3:594:LYS:HD2	0.91	1.03
9:I2:960:SER:HB2	16:P3:154:ALA:CA	1.88	1.03
10:J1:252:LEU:HD13	15:O1:273:ASP:CG	1.83	1.03
10:J2:249:ASP:OD2	14:N3:431:VAL:CG1	2.04	1.03
17:Q1:385:THR:CG2	17:Q1:507:ILE:CG2	2.31	1.03
18:R1:684:ILE:HD12	18:R1:688:LEU:HD11	1.36	1.03
22:U1:296:LEU:HD13	27:Z1:656:SER:C	1.46	1.03
25:X1:665:TRP:NE1	26:Y1:1267:GLU:CB	1.87	1.03
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CZ	1.93	1.03
25:X2:694:ASP:HB2	27:Z2:431:TRP:HB3	1.10	1.03
25:X2:811:SER:HG	27:Z2:701:LEU:HD11	1.14	1.03
26:Y1:1382:VAL:O	26:Y2:1364:ASN:HB3	1.57	1.03
27:Z1:128:LYS:HE3	27:Z1:147:GLU:CB	1.86	1.03
27:Z1:343:VAL:CB	27:Z1:346:ASN:HD22	1.70	1.03
27:Z1:383:GLN:HG3	27:Z1:417:ILE:HG21	1.37	1.03
27:Z2:209:TYR:CZ	27:Z2:335:MET:N	2.26	1.03
27:Z2:218:LEU:HD13	27:Z2:223:LEU:HD23	1.39	1.03
27:Z2:448:GLN:HB2	27:Z2:573:LYS:HZ2	1.21	1.03
6:F1:274:PHE:N	9:I1:1207:PRO:O	1.89	1.03
9:I1:844:LYS:NZ	13:M1:539:ALA:HB2	1.73	1.03
9:I1:978:LYS:NZ	15:O1:184:ARG:HH21	1.57	1.03
9:I2:809:HIS:CG	15:O3:244:GLU:H	1.76	1.03
9:I2:917:TYR:HE2	15:O3:190:ARG:NH1	1.24	1.03
9:I2:961:ARG:HD2	16:P3:155:GLU:O	1.56	1.03
9:I2:982:GLN:CG	15:O3:179:LEU:HD13	1.65	1.03
9:I2:982:GLN:HG2	15:O3:179:LEU:HD13	1.04	1.03
17:Q2:725:PHE:HB2	17:Q2:744:LYS:HE3	1.35	1.03
17:Q2:857:LEU:HD11	17:Q2:915:GLU:O	1.56	1.03
25:X1:700:ILE:HB	26:Y1:1298:TYR:CD1	1.92	1.03
25:X2:721:LEU:HB3	27:Z2:612:ILE:HD11	1.39	1.03
26:Y2:1334:LEU:HB2	27:Z1:105:ILE:O	1.56	1.03
27:Z1:209:TYR:HB3	27:Z1:210:PRO:HD2	1.05	1.03
27:Z1:252:GLN:HB2	27:Z1:335:MET:HE3	1.34	1.03
27:Z2:46:TYR:HE1	27:Z2:48:VAL:CG2	1.72	1.03
27:Z2:356:LEU:HD13	27:Z2:358:ARG:NH2	1.71	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:827:ILE:HD13	1:A4:849:SER:CA	1.86	1.03
6:F1:1053:LEU:CD2	9:I1:1388:GLU:HG2	1.89	1.03
9:I1:909:ARG:NE	15:O1:205:ARG:HH22	1.56	1.03
9:I1:1051:LYS:HB3	14:N1:293:LYS:HE2	1.07	1.03
9:I1:1363:GLU:OE2	15:O1:267:ALA:CA	2.06	1.03
9:I2:810:GLU:OE1	15:O3:248:SER:OG	1.75	1.03
9:I2:960:SER:H	16:P3:155:GLU:HB2	0.87	1.03
24:W1:526:ARG:CB	24:W1:740:PHE:CA	2.34	1.03
25:X1:704:GLN:HE22	27:Z1:598:LEU:HD12	1.19	1.03
25:X2:658:TYR:HD2	27:Z2:549:ILE:HD13	0.90	1.03
25:X2:688:HIS:CD2	27:Z2:445:LEU:HD11	1.92	1.03
27:Z2:128:LYS:HE3	27:Z2:147:GLU:CB	1.87	1.03
27:Z2:128:LYS:HE3	27:Z2:147:GLU:HA	1.07	1.03
27:Z2:304:THR:CG2	27:Z2:313:GLU:OE1	2.07	1.03
29:b2:36:GLN:O	29:b2:36:GLN:HG2	1.22	1.03
1:A2:1224:PRO:CA	1:A1:594:LEU:O	1.91	1.03
1:A3:1332:ARG:NH2	4:D3:903:ILE:N	2.05	1.03
6:F1:273:ALA:N	9:I1:1209:THR:N	1.73	1.03
7:G1:252:LEU:HD21	15:O2:244:GLU:CG	1.83	1.03
9:I2:914:ASN:CG	15:O3:194:GLU:CB	2.25	1.03
9:I2:923:GLY:CA	15:O3:190:ARG:NH2	2.21	1.03
9:I2:966:TRP:HB3	15:O3:178:ASP:OD1	1.58	1.03
9:I2:1050:SER:HB3	16:P3:142:LEU:HB3	1.05	1.03
9:I2:1308:THR:HB	14:N3:413:VAL:HG12	1.40	1.03
17:Q2:417:LEU:HD22	17:Q2:426:ILE:HG22	1.36	1.03
22:U1:296:LEU:HA	27:Z1:657:TYR:CA	1.88	1.03
25:X1:814:LEU:HD11	27:Z1:705:SER:HG	1.15	1.03
25:X2:693:ILE:CD1	27:Z2:7:LEU:CG	2.37	1.03
25:X2:695:GLN:CG	27:Z2:431:TRP:CD2	2.41	1.03
25:X2:778:LYS:CG	25:X2:794:ILE:N	2.21	1.03
25:X2:790:ASN:ND2	27:Z2:680:TRP:CZ2	2.26	1.03
27:Z1:45:TRP:NE1	27:Z1:95:TRP:HZ3	1.56	1.03
27:Z1:165:VAL:HB	27:Z1:168:LYS:HE2	1.04	1.03
27:Z1:230:SER:HB3	27:Z1:253:LEU:CD2	1.89	1.03
27:Z1:304:THR:CG2	27:Z1:313:GLU:OE1	2.07	1.03
27:Z1:343:VAL:C	27:Z1:346:ASN:ND2	2.17	1.03
27:Z1:451:SER:O	27:Z1:452:SER:CB	2.06	1.03
1:A2:1228:TYR:CE2	1:A1:642:ARG:NE	2.25	1.03
1:A2:1313:LYS:NZ	1:A1:728:LYS:NZ	2.04	1.03
1:A3:871:ASN:HD22	4:D1:515:ASN:ND2	1.56	1.03
4:D1:1006:ASP:HB2	1:A1:172:PRO:CB	1.89	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:138:ILE:HG23	9:I1:1391:THR:CG2	1.89	1.03
7:G2:252:LEU:N	15:O4:251:ILE:HG22	1.72	1.03
9:I1:918:SER:CB	15:O1:193:ALA:N	2.21	1.03
9:I2:810:GLU:N	15:O3:244:GLU:HB2	1.37	1.03
9:I2:976:ARG:HA	14:N3:297:ALA:HA	1.35	1.03
9:I2:1157:LEU:HD23	15:O3:263:GLN:HA	1.38	1.03
17:Q2:553:LEU:HD13	17:Q2:629:LEU:HD22	1.39	1.03
17:Q2:929:LEU:HD23	19:R2:714:TYR:CE1	1.91	1.03
25:X1:790:ASN:CB	27:Z1:669:THR:C	2.30	1.03
25:X2:686:ALA:C	27:Z2:8:SER:OG	2.01	1.03
25:X2:692:LYS:NZ	27:Z2:37:PHE:HZ	1.57	1.03
26:Y1:1277:LYS:HE3	27:Z1:571:ILE:N	1.74	1.03
27:Z1:24:ARG:NH2	27:Z1:440:MET:HG2	1.72	1.03
27:Z1:539:ILE:C	27:Z2:551:ASN:HB3	1.83	1.03
27:Z2:129:LYS:CE	27:Z2:185:LEU:HG	1.68	1.03
27:Z2:137:TYR:CG	27:Z2:215:VAL:HG12	1.85	1.03
27:Z2:199:THR:O	27:Z2:199:THR:CG2	1.99	1.03
27:Z2:325:ILE:CG2	27:Z2:350:LEU:HD13	1.86	1.03
29:b2:76:PHE:CE2	29:b2:87:LEU:HD11	1.94	1.03
29:b2:81:ILE:HD12	29:b2:86:PHE:HE2	1.18	1.03
1:A2:1328:ARG:HG2	4:D1:898:ASP:OD2	1.56	1.02
6:F1:267:GLU:OE2	11:K1:638:PRO:HD3	1.59	1.02
9:I2:887:GLN:NE2	13:M3:597:LYS:HZ3	1.45	1.02
9:I2:914:ASN:CA	15:O3:194:GLU:N	2.21	1.02
17:Q1:382:ARG:HH11	17:Q1:512:ILE:C	1.67	1.02
17:Q2:416:ILE:HD11	17:Q2:427:THR:HB	1.41	1.02
19:R2:684:ILE:HD12	19:R2:688:LEU:HD11	1.35	1.02
24:W1:666:ASN:ND2	24:W1:716:GLU:CB	2.22	1.02
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CZ	1.94	1.02
25:X1:690:GLN:HE22	27:Z1:577:LEU:HB3	1.20	1.02
25:X1:717:LYS:HB3	26:Y1:1320:LEU:HD11	1.38	1.02
25:X1:726:VAL:O	25:X1:727:SER:CA	2.04	1.02
25:X1:776:PHE:HE1	25:X1:795:LYS:CD	1.72	1.02
25:X1:811:SER:HG	27:Z1:701:LEU:HD11	1.14	1.02
25:X2:714:PHE:CZ	27:Z2:609:LEU:HD21	1.94	1.02
25:X2:774:ASN:CA	25:X2:797:LEU:CD1	2.31	1.02
25:X2:818:ILE:HD11	26:Y2:1405:GLN:HG3	1.38	1.02
26:Y2:1123:GLN:HE22	29:b1:37:LEU:HD11	1.20	1.02
26:Y2:1277:LYS:HE3	27:Z2:571:ILE:N	1.74	1.02
27:Z1:46:TYR:HE1	27:Z1:48:VAL:CG2	1.72	1.02
27:Z2:46:TYR:O	27:Z2:46:TYR:CG	2.09	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:129:LYS:HD3	27:Z2:145:LEU:HD23	1.04	1.02
27:Z2:343:VAL:CB	27:Z2:346:ASN:HD22	1.70	1.02
1:A3:1400:SER:OG	4:D3:869:THR:C	2.00	1.02
7:G1:252:LEU:HD22	15:O2:244:GLU:HG3	1.36	1.02
9:I1:900:ARG:CB	13:M1:580:LYS:CB	2.14	1.02
9:I1:904:GLU:H	13:M1:576:LYS:CB	1.70	1.02
9:I1:916:ALA:C	13:M1:534:GLN:NE2	2.18	1.02
9:I1:966:TRP:C	15:O1:181:HIS:HB2	1.83	1.02
9:I2:806:VAL:CG2	15:O3:247:TRP:HB3	1.88	1.02
9:I2:843:GLU:N	15:O3:191:ARG:NH2	2.08	1.02
9:I2:896:PRO:HG3	13:M3:588:MET:HB2	1.37	1.02
9:I2:960:SER:HB3	16:P3:154:ALA:H	1.23	1.02
18:R1:661:PRO:HB3	18:R1:710:LYS:HE2	1.34	1.02
25:X2:695:GLN:NE2	27:Z2:431:TRP:CD2	2.23	1.02
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:HD11	1.24	1.02
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CD1	2.42	1.02
26:Y2:1334:LEU:CD2	27:Z1:107:ASP:C	2.32	1.02
27:Z1:94:PRO:CD	27:Z1:94:PRO:N	2.15	1.02
27:Z1:209:TYR:CZ	27:Z1:335:MET:N	2.26	1.02
27:Z1:218:LEU:HD13	27:Z1:223:LEU:HD23	1.40	1.02
27:Z2:209:TYR:HB3	27:Z2:210:PRO:HD2	1.05	1.02
29:b1:10:ILE:HG22	29:b1:12:LYS:HE2	1.05	1.02
1:A2:1201:ARG:HG3	1:A1:647:GLU:CB	1.90	1.02
1:A3:1332:ARG:NH1	4:D3:899:THR:HG23	1.73	1.02
9:I1:1048:GLU:OE2	15:O1:170:LEU:N	1.92	1.02
9:I2:917:TYR:CE2	15:O3:190:ARG:CZ	2.36	1.02
9:I2:925:LEU:CD2	15:O3:186:PHE:HB2	1.90	1.02
17:Q1:222:SER:HB2	17:Q1:267:VAL:HG21	1.42	1.02
17:Q1:922:LEU:HD21	18:R1:688:LEU:CB	1.87	1.02
17:Q2:214:CYS:HB3	17:Q2:281:ARG:HD2	1.40	1.02
17:Q2:874:PHE:CD1	19:R2:726:ASN:CG	2.38	1.02
25:X1:644:TRP:O	27:Z1:535:PHE:CZ	2.02	1.02
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CZ2	1.93	1.02
27:Z1:34:ARG:HD2	27:Z1:47:ASN:ND2	1.74	1.02
27:Z1:129:LYS:HD3	27:Z1:145:LEU:HD23	1.04	1.02
27:Z1:218:LEU:HD12	27:Z1:223:LEU:HD21	1.37	1.02
27:Z1:395:LYS:CE	27:Z2:266:ARG:HG3	1.89	1.02
27:Z1:541:LYS:HB3	27:Z2:554:HIS:H	0.87	1.02
27:Z2:314:ILE:HD12	27:Z2:386:PHE:HE2	1.10	1.02
29:b1:38:GLU:CD	29:b1:61:VAL:HG12	1.84	1.02
1:A3:1083:SER:O	4:D3:1096:TYR:CE1	2.12	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:910:LYS:NZ	13:M1:546:ARG:N	1.91	1.02
9:I1:1667:GLN:HG2	9:I2:1669:ARG:HB3	1.39	1.02
9:I2:894:VAL:HB	13:M3:587:GLU:HG2	1.37	1.02
9:I2:895:ARG:CG	13:M3:584:GLN:C	2.31	1.02
9:I2:911:PRO:HB3	15:O3:197:ARG:CZ	1.88	1.02
9:I2:928:LEU:HD11	15:O3:180:ASP:N	1.13	1.02
10:J1:247:ASP:CB	15:O1:276:GLY:HA3	1.84	1.02
17:Q2:922:LEU:HD11	19:R2:688:LEU:O	1.58	1.02
25:X1:645:THR:N	27:Z1:535:PHE:HE2	1.56	1.02
25:X2:774:ASN:HB3	25:X2:797:LEU:HD13	1.02	1.02
25:X2:823:LYS:HD2	27:Z1:272:ILE:HG13	1.41	1.02
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CZ2	1.93	1.02
26:Y1:1430:ASP:HB3	26:Y1:1434:PHE:CE1	1.95	1.02
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:C	1.83	1.02
27:Z1:380:ILE:O	27:Z1:380:ILE:CG2	2.03	1.02
27:Z1:383:GLN:HG3	27:Z1:417:ILE:CG2	1.90	1.02
27:Z2:93:VAL:O	27:Z2:93:VAL:HG12	1.60	1.02
27:Z2:209:TYR:CD1	27:Z2:335:MET:CB	2.42	1.02
27:Z2:364:ILE:HG23	27:Z2:374:TYR:HB2	1.41	1.02
29:b1:7:SER:O	29:b1:29:LYS:NZ	1.93	1.02
29:b1:68:TYR:CE2	29:b2:46:LYS:HD2	1.94	1.02
1:A3:871:ASN:ND2	4:D1:515:ASN:ND2	2.07	1.02
1:A3:1223:GLU:CG	1:A4:648:TYR:CG	2.36	1.02
1:A4:712:THR:CG2	4:D3:969:HIS:HB3	1.90	1.02
6:F1:135:VAL:O	9:I1:1392:VAL:CG2	2.07	1.02
9:I1:908:ARG:NH2	13:M1:555:GLN:CB	2.23	1.02
9:I1:911:PRO:HG2	15:O1:202:LEU:CD1	1.72	1.02
9:I2:896:PRO:HG3	13:M3:588:MET:HE3	1.05	1.02
9:I2:960:SER:H	16:P3:155:GLU:CB	1.73	1.02
9:I2:1103:LEU:HD12	13:M3:611:LYS:CG	1.90	1.02
19:R2:530:ILE:HA	19:R2:549:PHE:HE2	1.22	1.02
22:U1:209:PRO:HG2	27:Z1:659:LYS:HA	1.09	1.02
25:X2:815:GLU:HA	26:Y2:1402:LEU:CD2	1.90	1.02
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD22	1.37	1.02
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CD1	1.94	1.02
27:Z1:137:TYR:HD2	27:Z1:215:VAL:C	1.47	1.02
27:Z2:34:ARG:HD2	27:Z2:47:ASN:ND2	1.74	1.02
27:Z2:45:TRP:HZ2	27:Z2:95:TRP:CH2	1.49	1.02
27:Z2:297:TYR:CE2	27:Z2:321:ASP:OD2	2.11	1.02
27:Z2:434:GLN:CG	27:Z2:580:LYS:CE	2.17	1.02
1:A2:1220:PRO:HA	1:A1:596:ARG:HA	1.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1233:GLN:HE22	1:A1:640:LEU:HD11	1.25	1.01
1:A4:1027:HIS:CE1	4:D3:478:ALA:HB1	1.92	1.01
6:F1:141:ALA:CA	9:I1:1390:PHE:CD2	2.43	1.01
9:I1:912:VAL:HA	13:M1:542:ASP:OD1	1.59	1.01
9:I1:961:ARG:HD3	15:O1:186:PHE:O	1.60	1.01
9:I1:1046:HIS:HE1	15:O1:168:ALA:HA	1.22	1.01
9:I2:806:VAL:CG2	15:O3:247:TRP:CB	2.38	1.01
9:I2:813:ILE:HG21	15:O3:237:PRO:O	0.85	1.01
9:I2:889:THR:H	13:M3:594:LYS:CD	1.71	1.01
9:I2:895:ARG:NH2	13:M3:589:GLY:H	1.59	1.01
9:I2:960:SER:N	16:P3:155:GLU:HB2	1.73	1.01
9:I2:1253:GLY:N	14:N3:410:MET:N	2.06	1.01
17:Q1:1007:SER:HB2	17:Q1:1044:ARG:HD3	1.37	1.01
18:R1:684:ILE:HD13	18:R1:722:ALA:HA	1.39	1.01
22:U1:296:LEU:HA	27:Z1:657:TYR:N	1.75	1.01
25:X1:815:GLU:HA	26:Y1:1402:LEU:CD2	1.89	1.01
25:X2:774:ASN:CB	25:X2:797:LEU:HD12	1.82	1.01
27:Z1:556:GLN:O	27:Z1:560:LEU:HG	1.60	1.01
27:Z2:314:ILE:CG2	27:Z2:326:LEU:CD1	2.38	1.01
27:Z2:343:VAL:C	27:Z2:346:ASN:ND2	2.17	1.01
29:b2:56:THR:HG21	29:b2:91:THR:O	1.53	1.01
1:A2:1227:PRO:HD3	1:A1:647:GLU:HG3	1.35	1.01
1:A3:1222:ALA:O	1:A4:648:TYR:OH	1.79	1.01
9:I2:899:LEU:H	13:M3:584:GLN:CG	1.43	1.01
9:I2:961:ARG:H	16:P3:155:GLU:HB3	1.22	1.01
9:I2:976:ARG:N	14:N3:297:ALA:CA	2.13	1.01
9:I2:976:ARG:HA	14:N3:297:ALA:CA	1.80	1.01
9:I2:1026:TYR:CZ	13:M3:608:LYS:HG2	1.94	1.01
17:Q1:382:ARG:NH1	17:Q1:512:ILE:C	2.18	1.01
17:Q1:961:SER:HB2	17:Q1:991:LEU:HD21	1.42	1.01
22:U1:209:PRO:HG3	27:Z1:662:LEU:CB	1.89	1.01
25:X1:714:PHE:CZ	27:Z1:609:LEU:HD21	1.94	1.01
25:X2:704:GLN:HE22	27:Z2:598:LEU:HD12	1.19	1.01
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CD1	2.42	1.01
26:Y1:1456:LEU:C	26:Y1:1456:LEU:CG	2.32	1.01
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:CG1	2.23	1.01
26:Y2:1365:ILE:CB	26:Y2:1383:ALA:O	2.06	1.01
27:Z1:209:TYR:CE1	27:Z1:335:MET:CA	2.44	1.01
27:Z1:297:TYR:CE2	27:Z1:321:ASP:OD2	2.12	1.01
27:Z2:230:SER:HB3	27:Z2:253:LEU:CD2	1.89	1.01
6:F1:141:ALA:HA	9:I1:1390:PHE:CD2	1.94	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:158:PRO:HG3	9:I1:1340:LEU:N	1.71	1.01
6:F1:160:SER:N	9:I1:1338:PHE:CG	2.24	1.01
9:I2:813:ILE:CG2	15:O3:241:SER:CB	2.28	1.01
9:I2:976:ARG:HB2	14:N3:297:ALA:HB1	1.41	1.01
9:I2:1049:LEU:HB3	14:N3:293:LYS:N	1.73	1.01
9:I2:1049:LEU:CD2	14:N3:292:ARG:O	2.06	1.01
9:I2:1050:SER:CB	16:P3:142:LEU:HB3	1.89	1.01
9:I2:1102:GLN:H	15:O3:272:SER:HB2	0.91	1.01
17:Q1:1066:PHE:HB3	17:Q1:1144:LYS:HE3	1.05	1.01
19:R2:627:THR:HG21	19:R2:663:LEU:HD13	1.38	1.01
25:X1:795:LYS:HZ1	27:Z1:666:GLU:HA	1.22	1.01
25:X2:778:LYS:HE3	25:X2:791:ILE:CG2	1.90	1.01
25:X2:823:LYS:HB3	27:Z1:259:LEU:HD21	1.39	1.01
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CD1	1.94	1.01
26:Y2:1368:LEU:H	26:Y2:1383:ALA:HB2	0.86	1.01
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:HG12	1.23	1.01
27:Z1:199:THR:O	27:Z1:199:THR:HG22	1.22	1.01
27:Z1:209:TYR:CD1	27:Z1:335:MET:CB	2.42	1.01
27:Z1:387:MET:HE3	27:Z1:391:SER:HB2	1.43	1.01
27:Z2:424:PRO:HG3	27:Z2:439:LEU:HD21	1.37	1.01
6:F1:159:ALA:C	9:I1:1338:PHE:CD2	2.38	1.01
9:I2:965:ALA:HB1	15:O3:182:THR:HG23	1.38	1.01
9:I2:1035:GLN:HB3	16:P3:147:LEU:HB3	1.43	1.01
17:Q2:1066:PHE:HB3	17:Q2:1144:LYS:HE3	1.05	1.01
22:U1:296:LEU:CB	27:Z1:657:TYR:H	1.73	1.01
25:X1:665:TRP:CH2	25:X1:669:LEU:HD11	1.95	1.01
25:X2:751:LEU:CD1	27:Z2:638:ILE:HD13	1.86	1.01
26:Y1:1436:VAL:CG2	27:Z1:228:ASN:OD1	2.08	1.01
26:Y2:1124:THR:O	26:Y2:1126:LEU:HD12	1.61	1.01
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:O	1.60	1.01
27:Z2:164:ILE:HD13	27:Z2:277:ARG:NH1	1.74	1.01
29:b1:55:ASN:HD22	29:b1:56:THR:HB	0.94	1.01
29:b1:68:TYR:CG	29:b2:46:LYS:HD2	1.95	1.01
1:A2:1228:TYR:CE2	1:A1:642:ARG:CZ	2.42	1.01
1:A2:1328:ARG:HD3	4:D1:976:ARG:CZ	1.90	1.01
9:I2:887:GLN:C	13:M3:594:LYS:HE3	1.86	1.01
9:I2:890:TYR:C	13:M3:591:ASP:HB2	1.86	1.01
9:I2:899:LEU:CD1	13:M3:585:LEU:N	1.95	1.01
9:I2:911:PRO:CB	15:O3:197:ARG:HE	1.58	1.01
9:I2:925:LEU:HD11	15:O3:186:PHE:HB2	1.28	1.01
9:I2:977:ASN:O	15:O3:174:LEU:CB	2.07	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1026:TYR:CD1	13:M3:612:PRO:HG3	1.88	1.01
17:Q1:598:ILE:HB	17:Q1:636:ILE:HD13	1.43	1.01
24:W1:523:ASP:CA	24:W1:736:ASN:O	2.09	1.01
25:X2:685:MET:HG3	27:Z2:445:LEU:O	1.61	1.01
25:X2:694:ASP:HB2	27:Z2:431:TRP:HB2	1.42	1.01
26:Y1:1306:ILE:O	26:Y1:1310:VAL:HG23	1.61	1.01
26:Y2:1336:THR:HB	27:Z1:92:GLU:OE1	1.61	1.01
27:Z1:24:ARG:O	27:Z1:24:ARG:HG3	1.24	1.01
27:Z1:389:TRP:CZ2	27:Z1:410:PHE:CE1	2.48	1.01
27:Z1:544:THR:CB	27:Z2:558:PHE:HB2	1.90	1.01
27:Z2:179:VAL:CG2	27:Z2:206:PHE:HD2	1.70	1.01
27:Z2:190:ASP:N	27:Z2:311:GLN:OE1	1.94	1.01
27:Z2:366:LEU:HD23	27:Z2:374:TYR:CE2	1.96	1.01
29:b1:16:ILE:CG1	29:b1:21:LYS:CE	2.39	1.01
29:b2:46:LYS:CE	29:b2:59:VAL:HG22	1.91	1.01
1:A3:1327:VAL:O	4:D3:876:SER:HB2	1.60	1.00
6:F1:153:LEU:HD23	9:I1:1395:LEU:CD2	1.90	1.00
6:F1:161:ALA:H	9:I1:1335:LYS:HA	0.91	1.00
7:G2:252:LEU:HB2	15:O4:251:ILE:HB	1.42	1.00
9:I1:911:PRO:HG3	15:O1:202:LEU:HD12	1.25	1.00
9:I1:1048:GLU:CG	14:N1:293:LYS:HE3	1.90	1.00
9:I2:1049:LEU:CG	14:N3:292:ARG:O	2.09	1.00
9:I2:1253:GLY:CA	14:N3:409:ALA:N	2.24	1.00
9:I2:1254:VAL:HG22	14:N3:408:MET:O	1.61	1.00
17:Q2:210:LEU:HD12	17:Q2:270:LEU:HD12	1.42	1.00
17:Q2:922:LEU:HD22	19:R2:688:LEU:HB2	1.38	1.00
22:U1:297:LEU:N	27:Z1:653:GLN:O	1.93	1.00
25:X2:815:GLU:HG2	26:Y2:1402:LEU:HD23	1.37	1.00
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:CG1	2.23	1.00
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:CA	1.50	1.00
26:Y2:1436:VAL:CG2	27:Z2:228:ASN:OD1	2.08	1.00
27:Z1:294:LEU:HD21	27:Z1:353:ARG:HH21	0.97	1.00
27:Z1:343:VAL:HB	27:Z1:346:ASN:ND2	1.70	1.00
27:Z1:401:ASP:OD1	27:Z2:261:GLU:N	1.66	1.00
27:Z2:668:GLU:C	27:Z2:668:GLU:HB3	1.86	1.00
29:b1:25:LEU:HD23	29:b1:79:PHE:CZ	1.95	1.00
1:A2:1226:LEU:HD22	1:A1:647:GLU:HG2	1.43	1.00
1:A3:1090:SER:O	4:D3:1100:PRO:CG	2.10	1.00
9:I1:1606:GLU:OE2	9:I2:1669:ARG:HD3	1.57	1.00
9:I2:887:GLN:HE22	13:M3:597:LYS:NZ	1.49	1.00
9:I2:889:THR:N	13:M3:594:LYS:HD2	1.75	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:921:GLU:H	16:P3:157:GLU:CD	1.69	1.00
9:I2:1048:GLU:OE2	14:N3:293:LYS:HB2	1.53	1.00
10:J1:247:ASP:CG	15:O1:276:GLY:CA	2.27	1.00
17:Q1:383:LEU:CA	17:Q1:508:ASN:HA	1.91	1.00
22:U1:193:ILE:HG13	27:Z1:664:ARG:HD2	1.40	1.00
25:X2:665:TRP:CH2	25:X2:669:LEU:HD11	1.95	1.00
25:X2:693:ILE:HD12	27:Z2:7:LEU:HD12	1.03	1.00
25:X2:774:ASN:N	25:X2:797:LEU:HD11	1.75	1.00
26:Y1:1383:ALA:C	26:Y2:1361:GLU:CA	2.18	1.00
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:H	1.22	1.00
26:Y2:1306:ILE:O	26:Y2:1310:VAL:HG23	1.61	1.00
27:Z1:35:ILE:CG1	27:Z1:46:TYR:CZ	2.45	1.00
27:Z1:129:LYS:CE	27:Z1:185:LEU:HG	1.68	1.00
27:Z1:164:ILE:HD13	27:Z1:277:ARG:NH1	1.73	1.00
27:Z1:241:THR:HG22	27:Z1:246:LYS:HG3	1.39	1.00
27:Z1:314:ILE:CG2	27:Z1:326:LEU:CD1	2.38	1.00
27:Z1:364:ILE:HG23	27:Z1:374:TYR:HB2	1.41	1.00
27:Z1:366:LEU:HD23	27:Z1:374:TYR:CE2	1.96	1.00
27:Z2:135:LYS:O	27:Z2:217:LEU:HG	1.61	1.00
29:b2:8:THR:N	29:b2:8:THR:CA	2.24	1.00
7:G1:249:ASP:C	15:O2:247:TRP:NE1	2.15	1.00
9:I1:1050:SER:C	14:N1:293:LYS:CD	2.34	1.00
9:I2:902:GLN:O	13:M3:577:LEU:HA	1.62	1.00
9:I2:1103:LEU:HD22	13:M3:614:ASP:CB	1.91	1.00
9:I2:1103:LEU:CD2	15:O3:275:LEU:HD23	1.91	1.00
9:I2:1108:PRO:O	15:O3:281:ALA:CB	2.09	1.00
10:J1:249:ASP:HB3	15:O1:272:SER:C	1.87	1.00
17:Q2:598:ILE:HB	17:Q2:636:ILE:HD13	1.43	1.00
22:U1:192:ILE:HA	27:Z1:664:ARG:CG	1.90	1.00
22:U1:296:LEU:CB	27:Z1:657:TYR:N	2.25	1.00
25:X1:690:GLN:NE2	27:Z1:581:PHE:CZ	2.06	1.00
25:X2:778:LYS:HD2	25:X2:795:LYS:HB3	1.41	1.00
26:Y1:1122:ILE:HD13	29:b1:87:LEU:HD11	1.37	1.00
27:Z1:46:TYR:O	27:Z1:46:TYR:CG	2.09	1.00
27:Z1:135:LYS:O	27:Z1:217:LEU:HG	1.61	1.00
27:Z2:93:VAL:O	27:Z2:93:VAL:CG1	2.07	1.00
27:Z2:137:TYR:HB3	27:Z2:269:LYS:CD	1.77	1.00
27:Z2:165:VAL:HB	27:Z2:168:LYS:HE2	1.04	1.00
27:Z2:669:THR:HG23	27:Z2:680:TRP:CZ2	1.95	1.00
29:b1:16:ILE:CG1	29:b1:21:LYS:HE3	1.90	1.00
6:F1:1267:ARG:HB2	15:O2:254:ARG:CD	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:910:LYS:O	13:M1:545:GLU:HG2	1.62	1.00
9:I1:1315:GLN:O	15:O1:269:ILE:CD1	2.10	1.00
9:I2:809:HIS:NE2	15:O3:243:LEU:HB2	1.76	1.00
26:Y2:1321:MET:CA	27:Z1:47:ASN:C	2.32	1.00
26:Y2:1385:LEU:HD11	27:Z2:683:LEU:CD2	1.88	1.00
27:Z1:12:ILE:CG2	27:Z1:37:PHE:CE2	2.18	1.00
27:Z2:556:GLN:O	27:Z2:560:LEU:HG	1.60	1.00
27:Z2:642:ASN:C	27:Z2:642:ASN:N	2.20	1.00
1:A4:715:GLU:HB2	4:D3:973:GLN:HE22	1.25	1.00
6:F1:138:ILE:HG12	9:I1:1388:GLU:O	1.61	1.00
9:I1:967:SER:OG	15:O1:178:ASP:CA	2.00	1.00
9:I2:899:LEU:N	13:M3:584:GLN:CG	2.21	1.00
25:X2:692:LYS:C	27:Z2:431:TRP:CZ3	2.33	1.00
27:Z1:401:ASP:OD2	27:Z2:263:TRP:N	1.81	1.00
27:Z2:209:TYR:CE1	27:Z2:335:MET:CA	2.44	1.00
27:Z2:213:PRO:HG2	27:Z2:216:LEU:HD23	1.43	1.00
27:Z2:389:TRP:CZ2	27:Z2:410:PHE:CE1	2.48	1.00
1:A2:1229:VAL:HG21	1:A1:640:LEU:HA	1.02	1.00
7:G1:251:TYR:CE1	15:O2:248:SER:HB3	1.96	1.00
7:G1:255:LEU:CA	15:O2:246:LEU:H	1.47	1.00
9:I1:911:PRO:HB2	13:M1:541:LEU:HD21	1.44	1.00
9:I2:978:LYS:CE	15:O3:178:ASP:C	2.24	1.00
17:Q2:659:PRO:HB2	17:Q2:661:GLN:HG2	1.44	1.00
27:Z1:300:THR:O	27:Z1:301:ASN:OD1	1.78	1.00
29:b2:75:HIS:ND1	29:b2:90:LYS:HD3	1.73	1.00
1:A4:127:HIS:H	4:D3:1010:ALA:CB	1.75	1.00
9:I1:838:GLU:O	15:O1:198:ARG:NH2	1.92	1.00
9:I1:1048:GLU:OE2	15:O1:170:LEU:HB2	1.61	1.00
18:R1:402:GLY:HA2	18:R1:444:ALA:HB2	1.02	1.00
22:U1:209:PRO:HA	27:Z1:663:THR:OG1	1.62	1.00
25:X1:704:GLN:NE2	27:Z1:598:LEU:HD12	1.77	1.00
25:X2:695:GLN:CG	27:Z2:431:TRP:CE3	2.44	1.00
25:X2:717:LYS:NZ	27:Z1:49:LEU:O	1.95	1.00
26:Y1:1449:ILE:CG2	26:Y1:1453:PHE:HE2	1.72	1.00
27:Z1:541:LYS:HA	27:Z2:555:GLU:N	1.77	1.00
27:Z1:587:LYS:O	27:Z1:591:GLN:HG2	1.62	1.00
27:Z2:287:ILE:HD13	27:Z2:348:LEU:CD1	1.92	1.00
1:A2:1269:ALA:O	1:A1:731:ILE:HB	1.61	0.99
6:F2:139:GLN:NE2	9:I2:1337:ALA:HA	1.76	0.99
9:I1:917:TYR:CE2	13:M1:534:GLN:O	2.15	0.99
9:I1:1667:GLN:NE2	9:I2:1669:ARG:CG	2.04	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1168:ALA:CA	15:O3:270:THR:HA	1.92	0.99
25:X2:693:ILE:HB	27:Z2:7:LEU:CD2	1.92	0.99
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:CG1	2.44	0.99
26:Y2:1362:LEU:HB3	26:Y2:1387:LYS:HD2	1.39	0.99
27:Z1:45:TRP:CH2	27:Z1:95:TRP:CH2	2.50	0.99
27:Z1:642:ASN:C	27:Z1:642:ASN:N	2.20	0.99
27:Z2:361:LYS:HZ1	27:Z2:378:ASP:HB2	1.24	0.99
9:I1:1315:GLN:O	15:O1:269:ILE:HG13	1.61	0.99
9:I2:806:VAL:HG12	15:O3:248:SER:H	1.27	0.99
9:I2:895:ARG:NH2	13:M3:589:GLY:HA3	1.77	0.99
9:I2:976:ARG:CZ	14:N3:293:LYS:CG	2.15	0.99
17:Q1:468:LEU:HD22	17:Q1:474:VAL:HG22	1.43	0.99
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CG	1.88	0.99
9:I1:908:ARG:HH22	13:M1:555:GLN:CB	1.75	0.99
17:Q1:659:PRO:HB2	17:Q1:661:GLN:HG2	1.44	0.99
17:Q1:1012:GLU:HG2	17:Q1:1057:LEU:HD22	1.42	0.99
25:X1:750:THR:HG22	25:X1:754:ASN:ND2	1.78	0.99
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:CA	2.40	0.99
26:Y2:1340:ARG:HH21	27:Z1:157:LEU:HD22	1.20	0.99
27:Z1:135:LYS:O	27:Z1:217:LEU:CG	2.10	0.99
27:Z2:282:GLN:HG3	27:Z2:342:TYR:O	1.62	0.99
6:F2:143:GLY:C	9:I2:1395:LEU:CD2	2.26	0.99
9:I1:965:ALA:HB2	15:O1:185:ALA:N	1.75	0.99
9:I1:966:TRP:CZ3	15:O1:179:LEU:HB3	1.69	0.99
9:I1:966:TRP:NE1	15:O1:183:VAL:HG12	1.77	0.99
9:I2:1164:ALA:O	15:O3:270:THR:OG1	1.79	0.99
25:X1:799:SER:HB3	26:Y1:1372:LYS:CA	1.92	0.99
26:Y1:1345:LEU:HD22	26:Y1:1348:LYS:HZ3	1.21	0.99
26:Y2:1332:LYS:CG	27:Z1:97:TYR:CB	2.28	0.99
27:Z1:241:THR:CG2	27:Z1:246:LYS:CG	2.40	0.99
27:Z1:541:LYS:HA	27:Z2:555:GLU:H	1.25	0.99
27:Z2:135:LYS:O	27:Z2:217:LEU:CG	2.10	0.99
1:A3:1399:ARG:HD2	4:D3:866:PHE:HD1	1.22	0.99
7:G1:255:LEU:HD22	15:O2:244:GLU:CA	1.88	0.99
9:I1:980:ILE:CD1	15:O1:172:ALA:CA	2.40	0.99
9:I2:977:ASN:O	15:O3:174:LEU:O	1.79	0.99
25:X1:815:GLU:HG2	26:Y1:1402:LEU:HD23	1.37	0.99
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CD1	1.76	0.99
26:Y2:1321:MET:HB3	27:Z1:51:ASP:CG	1.87	0.99
27:Z2:45:TRP:CH2	27:Z2:95:TRP:CH2	2.51	0.99
6:F1:1265:GLN:HB2	15:O2:252:VAL:HG23	1.03	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:922:ASP:HB3	15:O1:191:ARG:HB2	1.44	0.99
9:I2:925:LEU:HD21	15:O3:186:PHE:HB2	1.45	0.99
17:Q1:381:TYR:C	17:Q1:512:ILE:HG12	1.84	0.99
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CD1	1.76	0.99
25:X2:692:LYS:N	27:Z2:431:TRP:CE2	2.04	0.99
25:X2:695:GLN:HG2	27:Z2:430:ASN:O	1.62	0.99
25:X2:750:THR:HG22	25:X2:754:ASN:ND2	1.78	0.99
27:Z1:642:ASN:HD21	27:Z1:646:HIS:CE1	1.81	0.99
27:Z2:125:SER:HA	27:Z2:147:GLU:OE1	1.58	0.99
27:Z2:137:TYR:CD1	27:Z2:215:VAL:HG11	1.95	0.99
29:b1:63:LYS:CD	29:b1:83:PRO:O	2.10	0.99
1:A1:827:ILE:HG12	1:A1:849:SER:HA	1.45	0.99
6:F1:138:ILE:HG23	9:I1:1391:THR:CB	1.93	0.99
9:I1:1051:LYS:HZ1	14:N1:290:VAL:HA	0.97	0.99
9:I2:1106:LYS:HB2	15:O3:275:LEU:CD1	1.86	0.99
9:I2:1308:THR:HB	14:N3:413:VAL:C	1.87	0.99
17:Q1:700:GLU:HB3	17:Q1:758:ILE:HG12	1.44	0.99
17:Q2:907:THR:HG22	17:Q2:923:HIS:HB2	1.44	0.99
22:U1:243:PHE:HD2	27:Z1:657:TYR:C	1.71	0.99
25:X2:721:LEU:HD13	27:Z2:612:ILE:HD11	1.41	0.99
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:H	1.75	0.99
27:Z1:74:SER:OG	27:Z1:74:SER:O	1.75	0.99
27:Z1:544:THR:HA	27:Z2:558:PHE:HD2	1.07	0.99
27:Z2:199:THR:O	27:Z2:199:THR:HG22	1.22	0.99
27:Z2:434:GLN:HB3	27:Z2:580:LYS:HZ2	1.28	0.99
9:I2:1106:LYS:HB3	15:O3:275:LEU:HD12	1.01	0.99
17:Q1:711:ASN:HA	17:Q1:715:LEU:HD13	1.41	0.99
17:Q2:852:ILE:HD11	17:Q2:913:LYS:CE	1.92	0.99
20:S1:568:ALA:C	21:T1:86:ASN:ND2	2.16	0.99
25:X1:818:ILE:HD11	26:Y1:1405:GLN:HG3	1.38	0.99
27:Z1:27:PHE:CE2	27:Z1:36:VAL:HG22	1.91	0.99
27:Z2:15:ALA:C	27:Z2:15:ALA:CA	2.36	0.99
27:Z2:26:ILE:CG2	27:Z2:440:MET:HE3	1.75	0.99
27:Z2:35:ILE:CG1	27:Z2:46:TYR:CZ	2.45	0.99
27:Z2:387:MET:HE3	27:Z2:391:SER:HB2	1.43	0.99
27:Z2:587:LYS:O	27:Z2:591:GLN:HG2	1.62	0.99
9:I1:906:GLY:HA2	13:M1:572:GLU:HG3	1.00	0.99
9:I1:908:ARG:HG3	15:O1:209:LEU:HD11	1.37	0.99
9:I2:1050:SER:HB3	16:P3:142:LEU:CB	1.93	0.99
9:I2:1103:LEU:HB3	13:M3:614:ASP:HB2	1.40	0.99
17:Q1:416:ILE:HD11	17:Q1:427:THR:HB	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:526:ARG:HB2	24:W1:740:PHE:HA	1.41	0.99
25:X2:695:GLN:CB	27:Z2:48:VAL:HG13	1.90	0.99
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:CB	2.24	0.99
27:Z1:93:VAL:O	27:Z1:93:VAL:CG1	2.07	0.99
27:Z1:217:LEU:HD23	27:Z1:269:LYS:HG2	1.44	0.99
27:Z2:27:PHE:CE2	27:Z2:36:VAL:HG22	1.91	0.99
27:Z2:241:THR:CG2	27:Z2:246:LYS:CG	2.40	0.99
27:Z2:287:ILE:CD1	27:Z2:348:LEU:CD1	2.41	0.99
29:b1:25:LEU:CD2	29:b1:79:PHE:CD2	2.42	0.99
1:A2:1203:TYR:HB2	1:A1:595:GLU:CD	1.87	0.99
9:I2:1162:TYR:H	15:O3:266:GLN:NE2	1.58	0.99
19:R2:614:PRO:HA	19:R2:617:ILE:HG22	1.43	0.99
25:X2:704:GLN:NE2	27:Z2:598:LEU:HD12	1.76	0.99
25:X2:775:THR:CB	25:X2:794:ILE:HD13	1.91	0.99
27:Z2:300:THR:O	27:Z2:301:ASN:OD1	1.78	0.99
27:Z2:668:GLU:C	27:Z2:668:GLU:HB2	1.81	0.99
1:A4:827:ILE:HG12	1:A4:849:SER:HA	1.45	0.98
6:F1:1807:GLU:N	14:N2:412:ASN:CG	2.19	0.98
9:I2:809:HIS:CD2	15:O3:244:GLU:N	2.31	0.98
17:Q2:711:ASN:HA	17:Q2:715:LEU:HD13	1.41	0.98
25:X2:645:THR:N	27:Z2:535:PHE:CE2	2.32	0.98
27:Z1:158:ASN:ND2	27:Z1:161:GLU:OE2	1.95	0.98
27:Z1:218:LEU:HD13	27:Z1:223:LEU:CD2	1.93	0.98
29:b2:46:LYS:HE3	29:b2:59:VAL:HG22	1.01	0.98
17:Q1:754:ASN:HA	17:Q1:757:LYS:HE2	1.45	0.98
25:X1:790:ASN:CG	27:Z1:680:TRP:CZ2	2.41	0.98
27:Z1:24:ARG:HE	27:Z1:440:MET:HB3	1.20	0.98
27:Z1:287:ILE:CD1	27:Z1:348:LEU:CD1	2.41	0.98
27:Z1:361:LYS:HZ1	27:Z1:378:ASP:HB2	1.25	0.98
27:Z2:158:ASN:ND2	27:Z2:161:GLU:OE2	1.96	0.98
27:Z2:643:SER:N	27:Z2:643:SER:CA	2.27	0.98
1:A3:1222:ALA:CB	1:A4:598:VAL:H	1.74	0.98
1:A3:1401:VAL:CA	4:D3:873:GLN:NE2	2.26	0.98
9:I1:899:LEU:O	13:M1:576:LYS:CA	2.12	0.98
9:I2:895:ARG:NH1	13:M3:586:ASP:CG	2.08	0.98
9:I2:921:GLU:OE1	16:P3:157:GLU:OE2	1.79	0.98
9:I2:977:ASN:H	15:O3:174:LEU:HD23	0.98	0.98
9:I2:1099:ARG:HD2	15:O3:271:GLU:OE2	1.62	0.98
17:Q2:222:SER:HB2	17:Q2:267:VAL:HG21	1.42	0.98
18:R1:614:PRO:HA	18:R1:617:ILE:HG22	1.43	0.98
25:X2:775:THR:OG1	25:X2:794:ILE:HD12	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1448:GLN:O	26:Y2:1452:PHE:CD2	2.16	0.98
27:Z1:287:ILE:HD13	27:Z1:348:LEU:CD1	1.91	0.98
27:Z1:325:ILE:HG23	27:Z1:350:LEU:HD11	0.99	0.98
29:b1:54:GLY:C	29:b1:55:ASN:CA	2.35	0.98
29:b2:46:LYS:HE2	29:b2:59:VAL:H	1.26	0.98
6:F2:140:GLU:HG2	9:I2:1393:GLY:H	1.16	0.98
9:I1:1246:ILE:HG12	15:O1:255:GLY:CA	1.79	0.98
9:I2:916:ALA:CA	15:O3:189:ARG:O	2.10	0.98
9:I2:967:SER:O	16:P3:145:SER:O	1.82	0.98
18:R1:435:PHE:CD2	18:R1:448:ILE:CD1	2.28	0.98
25:X2:638:ASP:N	27:Z2:528:PHE:CZ	2.31	0.98
25:X2:717:LYS:HE2	26:Y2:1320:LEU:HD11	1.00	0.98
27:Z1:125:SER:HA	27:Z1:147:GLU:OE1	1.58	0.98
27:Z1:190:ASP:N	27:Z1:311:GLN:OE1	1.95	0.98
27:Z2:129:LYS:HE3	27:Z2:185:LEU:CG	1.76	0.98
9:I1:911:PRO:HG3	15:O1:202:LEU:CG	1.93	0.98
9:I2:892:HIS:CD2	13:M3:591:ASP:O	2.10	0.98
9:I2:1246:ILE:HD11	14:N3:408:MET:HA	1.44	0.98
25:X1:789:GLU:CG	27:Z1:680:TRP:NE1	2.26	0.98
25:X2:693:ILE:CD1	27:Z2:7:LEU:HG	1.93	0.98
25:X2:694:ASP:CB	27:Z2:431:TRP:CB	2.41	0.98
26:Y2:1443:MET:SD	27:Z2:332:GLU:OE1	2.21	0.98
27:Z1:137:TYR:CD1	27:Z1:215:VAL:HG11	1.95	0.98
27:Z2:188:SER:OG	27:Z2:195:TYR:HE2	1.45	0.98
29:b2:9:PRO:HD3	29:b2:29:LYS:CE	1.92	0.98
1:A2:1237:LEU:CD1	1:A1:588:SER:CB	2.37	0.98
1:A4:623:SER:OG	4:D3:977:GLU:N	1.96	0.98
17:Q1:703:THR:HG21	17:Q1:709:PHE:CG	1.99	0.98
17:Q2:468:LEU:HD22	17:Q2:474:VAL:HG22	1.43	0.98
17:Q2:961:SER:HB2	17:Q2:991:LEU:HD21	1.42	0.98
22:U1:243:PHE:CD2	27:Z1:657:TYR:C	2.41	0.98
25:X1:725:VAL:HG21	27:Z1:612:ILE:HG23	1.42	0.98
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CD2	2.16	0.98
1:A3:1327:VAL:O	4:D3:876:SER:CB	2.12	0.98
9:I2:891:LEU:CD2	13:M3:590:LYS:HE3	1.94	0.98
9:I2:919:ALA:C	16:P3:157:GLU:OE1	2.05	0.98
9:I2:1307:LEU:HB2	14:N3:414:ALA:O	0.80	0.98
17:Q1:867:GLN:HG3	17:Q1:869:ASP:H	1.25	0.98
19:R2:581:LEU:HD12	19:R2:584:ILE:HD12	1.44	0.98
22:U1:289:GLN:HA	26:Y1:1372:LYS:O	1.64	0.98
26:Y1:1443:MET:SD	27:Z1:332:GLU:OE1	2.21	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1449:ILE:CG2	26:Y2:1453:PHE:HE2	1.72	0.98
27:Z2:668:GLU:HB2	27:Z2:668:GLU:O	1.62	0.98
1:A2:1204:TRP:CD1	1:A1:599:ARG:HA	1.97	0.98
1:A2:1284:ASN:ND2	1:A1:635:ARG:HD3	1.79	0.98
9:I1:981:VAL:HG12	15:O1:176:ARG:HG3	1.41	0.98
17:Q2:1012:GLU:HG2	17:Q2:1057:LEU:HD22	1.42	0.98
18:R1:435:PHE:HB3	18:R1:448:ILE:HG13	1.45	0.98
22:U1:245:ILE:HG13	27:Z1:657:TYR:CE1	1.98	0.98
24:W1:526:ARG:HB3	24:W1:740:PHE:CB	1.94	0.98
25:X1:755:LEU:CD1	26:Y1:1349:LEU:HD11	1.94	0.98
26:Y1:1448:GLN:O	26:Y1:1452:PHE:CD2	2.16	0.98
27:Z1:294:LEU:CD2	27:Z1:353:ARG:HH21	1.73	0.98
27:Z2:26:ILE:CG2	27:Z2:440:MET:SD	2.52	0.98
27:Z2:449:ASN:HD21	27:Z2:576:ASP:HB2	1.27	0.98
9:I1:1315:GLN:CG	15:O1:266:GLN:O	2.12	0.98
9:I2:809:HIS:NE2	15:O3:243:LEU:CB	2.25	0.98
9:I2:891:LEU:HD21	13:M3:590:LYS:HE3	1.00	0.98
9:I2:963:LEU:C	16:P3:152:LYS:HE2	1.88	0.98
9:I2:1099:ARG:O	15:O3:272:SER:HB3	1.62	0.98
17:Q1:922:LEU:CD2	18:R1:688:LEU:HB3	1.93	0.98
25:X2:688:HIS:CD2	27:Z2:445:LEU:CD1	2.45	0.98
25:X2:778:LYS:HD3	25:X2:795:LYS:HB3	1.33	0.98
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:HD12	1.26	0.98
26:Y2:1317:TYR:O	27:Z1:48:VAL:O	1.82	0.98
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:CD	2.33	0.98
26:Y2:1367:LYS:H	26:Y2:1383:ALA:HB1	1.27	0.98
27:Z1:129:LYS:CE	27:Z1:185:LEU:CB	2.37	0.98
29:b1:16:ILE:HD12	29:b1:21:LYS:HG3	1.45	0.98
1:A2:1201:ARG:CG	1:A1:647:GLU:HB3	1.94	0.98
4:D1:1030:ALA:CB	1:A1:633:MET:HE2	1.93	0.98
9:I2:1026:TYR:HD1	13:M3:612:PRO:CG	1.73	0.98
17:Q1:60:VAL:HG21	17:Q1:63:GLU:HG3	1.46	0.98
18:R1:530:ILE:HG13	18:R1:549:PHE:CD2	1.98	0.98
26:Y2:1295:VAL:CA	27:Z2:588:TRP:CZ3	2.47	0.98
27:Z1:678:ASN:O	27:Z1:678:ASN:CA	2.11	0.98
27:Z2:416:ASP:HB3	27:Z2:569:LYS:NZ	1.77	0.98
1:A3:1091:VAL:N	4:D3:1100:PRO:HB2	1.40	0.97
9:I2:895:ARG:HB3	13:M3:588:MET:N	1.76	0.97
9:I2:1049:LEU:HD12	16:P3:141:ALA:O	1.62	0.97
22:U1:296:LEU:HD13	27:Z1:657:TYR:N	1.75	0.97
25:X1:714:PHE:HZ	26:Y1:1316:GLU:HG3	0.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:789:GLU:CG	27:Z1:680:TRP:CG	2.47	0.97
27:Z1:282:GLN:HG3	27:Z1:342:TYR:O	1.62	0.97
27:Z1:544:THR:CG2	27:Z2:558:PHE:N	2.26	0.97
27:Z1:611:GLN:O	27:Z1:612:ILE:CA	2.12	0.97
29:b2:59:VAL:HG23	29:b2:59:VAL:O	1.64	0.97
1:A2:1280:GLN:C	1:A1:635:ARG:CD	2.35	0.97
1:A4:132:ASP:OD1	4:D3:1002:ALA:CB	2.12	0.97
1:A4:172:PRO:HB3	4:D3:991:ASP:OD2	1.60	0.97
6:F1:153:LEU:O	9:I1:1395:LEU:HD13	1.64	0.97
9:I2:806:VAL:CG1	15:O3:248:SER:H	1.76	0.97
9:I2:806:VAL:HG22	15:O3:247:TRP:CG	1.98	0.97
9:I2:981:VAL:CG2	15:O3:171:ASP:O	2.11	0.97
9:I2:1031:ALA:HB1	13:M3:621:ARG:HH12	1.21	0.97
9:I2:1308:THR:OG1	14:N3:413:VAL:HG12	1.63	0.97
19:R2:530:ILE:HG13	19:R2:549:PHE:CD2	1.98	0.97
25:X2:725:VAL:HG21	27:Z2:612:ILE:HG23	1.42	0.97
26:Y1:1392:ARG:HH12	27:Z1:690:ASP:HA	0.98	0.97
27:Z1:404:PRO:HA	27:Z2:271:ASP:CG	1.89	0.97
27:Z1:531:ILE:CD1	27:Z2:541:LYS:HD3	1.92	0.97
27:Z1:643:SER:N	27:Z1:643:SER:CA	2.26	0.97
27:Z2:12:ILE:CG2	27:Z2:37:PHE:CE2	2.18	0.97
27:Z2:23:PRO:C	27:Z2:23:PRO:CD	2.36	0.97
27:Z2:449:ASN:ND2	27:Z2:576:ASP:CB	2.27	0.97
9:I1:908:ARG:CD	13:M1:552:TYR:H	1.77	0.97
9:I2:806:VAL:HG11	15:O3:248:SER:N	1.75	0.97
9:I2:919:ALA:HB2	16:P3:157:GLU:CA	1.79	0.97
9:I2:964:SER:CB	16:P3:152:LYS:HB2	1.93	0.97
9:I2:1106:LYS:HB3	15:O3:275:LEU:CD1	1.92	0.97
25:X1:778:LYS:O	25:X1:778:LYS:CG	2.11	0.97
25:X2:680:TYR:OH	27:Z2:420:ILE:HG22	1.63	0.97
1:A2:1229:VAL:HG21	1:A1:640:LEU:C	1.88	0.97
9:I1:918:SER:HB2	15:O1:193:ALA:N	1.78	0.97
9:I2:1049:LEU:N	16:P3:141:ALA:CB	2.14	0.97
17:Q2:703:THR:HG21	17:Q2:709:PHE:CG	1.99	0.97
25:X1:638:ASP:OD1	25:X1:639:ASP:N	1.96	0.97
26:Y2:1368:LEU:CB	26:Y2:1382:VAL:C	2.38	0.97
26:Y2:1431:MET:SD	26:Y2:1434:PHE:CD2	2.57	0.97
27:Z1:24:ARG:O	27:Z1:24:ARG:CG	2.07	0.97
27:Z1:314:ILE:HD12	27:Z1:386:PHE:HE2	1.10	0.97
27:Z1:404:PRO:HD3	27:Z2:262:ASN:HB3	1.43	0.97
27:Z2:642:ASN:HD21	27:Z2:646:HIS:CE1	1.81	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:140:GLU:HG2	9:I2:1393:GLY:N	1.50	0.97
9:I2:923:GLY:HA3	15:O3:190:ARG:HH21	0.83	0.97
9:I2:964:SER:N	16:P3:152:LYS:HG3	1.77	0.97
17:Q1:538:ILE:HD13	17:Q1:567:PHE:CE1	2.00	0.97
17:Q2:754:ASN:HA	17:Q2:757:LYS:HE2	1.45	0.97
25:X2:694:ASP:O	27:Z2:432:ASN:CA	2.05	0.97
25:X2:778:LYS:CA	25:X2:794:ILE:H	1.77	0.97
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:HG12	1.64	0.97
26:Y1:1455:ASN:C	26:Y1:1455:ASN:HB3	1.88	0.97
26:Y2:1294:LYS:CE	27:Z2:588:TRP:HD1	1.54	0.97
27:Z1:284:PRO:N	27:Z1:284:PRO:CD	2.28	0.97
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CG	1.95	0.97
6:F1:1265:GLN:HA	15:O2:252:VAL:HA	1.44	0.97
6:F2:158:PRO:CB	9:I2:1337:ALA:CB	2.40	0.97
7:G2:250:THR:O	15:O4:252:VAL:C	2.07	0.97
9:I1:1051:LYS:HE2	14:N1:289:PHE:CG	1.97	0.97
25:X2:717:LYS:HZ2	27:Z1:49:LEU:HG	1.29	0.97
26:Y1:1431:MET:SD	26:Y1:1434:PHE:CD2	2.57	0.97
1:A4:520:GLU:HG3	4:D3:1017:THR:HG23	1.46	0.97
9:I2:1103:LEU:O	13:M3:615:PRO:CD	2.12	0.97
9:I2:1255:HIS:CD2	14:N3:407:ALA:CB	0.92	0.97
17:Q2:929:LEU:HD11	19:R2:695:ALA:HB2	1.46	0.97
26:Y1:1401:LEU:O	26:Y1:1405:GLN:HG2	1.64	0.97
26:Y2:1368:LEU:CB	26:Y2:1382:VAL:O	2.12	0.97
26:Y2:1401:LEU:O	26:Y2:1405:GLN:HG2	1.65	0.97
27:Z1:544:THR:HB	27:Z2:554:HIS:ND1	1.80	0.97
27:Z2:218:LEU:HD13	27:Z2:223:LEU:CD2	1.93	0.97
29:b1:65:PHE:CE2	29:b1:87:LEU:HD11	1.98	0.97
29:b2:16:ILE:CG1	29:b2:21:LYS:HE3	1.95	0.97
1:A2:1220:PRO:O	1:A1:599:ARG:HB3	1.63	0.97
1:A4:715:GLU:OE1	4:D3:970:MET:HA	1.64	0.97
9:I1:896:PRO:HB3	13:M1:583:ASP:CA	1.93	0.97
9:I1:1363:GLU:HG3	15:O1:266:GLN:HG2	1.43	0.97
9:I2:888:GLU:N	13:M3:594:LYS:HE3	1.78	0.97
9:I2:911:PRO:CB	15:O3:197:ARG:CD	2.43	0.97
17:Q1:210:LEU:HD12	17:Q1:270:LEU:HD12	1.42	0.97
17:Q2:700:GLU:HB3	17:Q2:758:ILE:HG12	1.44	0.97
24:W1:526:ARG:CB	24:W1:740:PHE:HA	1.95	0.97
26:Y1:1431:MET:SD	26:Y1:1434:PHE:HD2	1.88	0.97
26:Y2:1212:ARG:CZ	26:Y2:1213:LEU:CD2	2.42	0.97
26:Y2:1321:MET:CA	27:Z1:51:ASP:CB	2.41	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:538:ARG:NH2	27:Z2:543:GLN:O	1.97	0.97
1:A2:1221:ILE:HD11	1:A1:600:LYS:HE3	1.47	0.97
9:I1:841:PHE:HD1	15:O1:191:ARG:NE	1.62	0.97
9:I1:966:TRP:CA	15:O1:181:HIS:CB	2.24	0.97
9:I2:928:LEU:CD2	15:O3:179:LEU:CD2	2.38	0.97
9:I2:959:SER:O	16:P3:151:LYS:CG	2.12	0.97
9:I2:1051:LYS:HB2	14:N3:292:ARG:CD	1.95	0.97
17:Q2:867:GLN:HG3	17:Q2:869:ASP:H	1.25	0.97
24:W1:403:ASP:N	24:W1:723:PHE:C	2.22	0.97
25:X1:751:LEU:CD1	27:Z1:638:ILE:HD13	1.86	0.97
27:Z1:451:SER:O	27:Z1:452:SER:CA	2.12	0.97
27:Z1:540:VAL:O	27:Z2:555:GLU:CG	2.12	0.97
18:R1:527:VAL:HB	18:R1:580:PHE:CZ	2.00	0.97
24:W1:526:ARG:O	24:W1:743:ASN:C	1.96	0.97
25:X2:684:VAL:O	27:Z2:447:PHE:N	1.73	0.97
26:Y2:1450:GLY:HA3	27:Z2:330:ASP:OD2	1.63	0.97
27:Z1:93:VAL:O	27:Z1:93:VAL:HG12	1.60	0.97
27:Z1:218:LEU:CD1	27:Z1:223:LEU:HD21	1.94	0.97
27:Z2:135:LYS:O	27:Z2:217:LEU:CB	2.13	0.97
27:Z2:389:TRP:CZ3	27:Z2:393:LEU:CD1	2.47	0.97
29:b1:25:LEU:CD2	29:b1:79:PHE:CZ	2.48	0.97
29:b1:83:PRO:CD	29:b1:83:PRO:N	2.10	0.97
1:A4:827:ILE:HG23	1:A4:849:SER:C	1.90	0.96
4:D1:468:LYS:CD	1:A1:999:SER:OG	2.13	0.96
7:G1:255:LEU:HA	15:O2:245:GLU:C	1.89	0.96
9:I1:754:ARG:CZ	13:M1:552:TYR:HD2	1.78	0.96
9:I2:1109:LEU:CB	15:O3:284:LYS:NZ	2.27	0.96
22:U1:289:GLN:HG3	25:X1:794:ILE:CB	1.94	0.96
25:X2:778:LYS:HG3	25:X2:794:ILE:N	1.77	0.96
26:Y1:1383:ALA:CB	26:Y2:1364:ASN:N	2.28	0.96
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:CD2	2.26	0.96
27:Z2:252:GLN:CB	27:Z2:335:MET:HE3	1.95	0.96
1:A1:827:ILE:CG2	1:A1:849:SER:HA	1.95	0.96
9:I1:981:VAL:HG11	15:O1:176:ARG:NE	1.79	0.96
9:I2:1051:LYS:NZ	14:N3:289:PHE:HA	1.80	0.96
9:I2:1246:ILE:CD1	14:N3:408:MET:HA	1.93	0.96
17:Q1:362:ILE:HG22	17:Q1:511:PRO:O	1.63	0.96
17:Q2:294:THR:HG22	17:Q2:308:ILE:HG12	1.48	0.96
17:Q2:874:PHE:CE1	19:R2:726:ASN:ND2	2.33	0.96
22:U1:209:PRO:CD	27:Z1:662:LEU:N	2.27	0.96
25:X1:665:TRP:HE1	26:Y1:1267:GLU:HB2	0.82	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1431:MET:SD	26:Y2:1434:PHE:HD2	1.88	0.96
27:Z1:389:TRP:CZ3	27:Z1:393:LEU:CD1	2.47	0.96
27:Z2:209:TYR:CD1	27:Z2:335:MET:CA	2.49	0.96
27:Z2:218:LEU:CD1	27:Z2:223:LEU:HD21	1.93	0.96
27:Z2:364:ILE:O	27:Z2:373:LEU:HD12	1.65	0.96
29:b2:16:ILE:HD11	29:b2:21:LYS:HG3	1.43	0.96
1:A2:1230:TYR:OH	1:A1:590:SER:HA	1.63	0.96
1:A2:1269:ALA:HB3	1:A1:729:SER:N	1.78	0.96
7:G1:250:THR:OG1	15:O2:247:TRP:CH2	2.18	0.96
9:I2:914:ASN:HA	15:O3:194:GLU:CB	1.95	0.96
18:R1:581:LEU:HD12	18:R1:584:ILE:HD12	1.44	0.96
25:X2:721:LEU:HD13	27:Z2:612:ILE:CD1	1.95	0.96
26:Y1:1235:MET:O	26:Y1:1239:PHE:HD2	1.23	0.96
26:Y1:1366:LEU:O	26:Y1:1370:THR:HG23	1.66	0.96
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:HG12	1.64	0.96
27:Z1:223:LEU:HD11	27:Z1:263:TRP:HE1	1.30	0.96
27:Z1:451:SER:C	27:Z1:451:SER:HA	1.88	0.96
27:Z2:216:LEU:HD21	27:Z2:272:ILE:HD12	1.23	0.96
27:Z2:325:ILE:HG23	27:Z2:350:LEU:HD11	0.98	0.96
29:b2:76:PHE:CE1	29:b2:89:PHE:CB	2.48	0.96
6:F2:142:ALA:O	9:I2:1395:LEU:CD2	2.12	0.96
22:U1:288:LEU:O	25:X1:797:LEU:HB2	1.66	0.96
22:U1:288:LEU:HD13	25:X1:792:GLN:C	1.89	0.96
25:X1:708:GLU:HG2	27:Z1:598:LEU:HD21	1.45	0.96
26:Y1:1122:ILE:HD11	29:b1:87:LEU:CD1	1.91	0.96
27:Z1:41:ASN:HD21	27:Z1:60:SER:HA	1.22	0.96
27:Z1:342:TYR:CE1	27:Z1:344:TYR:HE2	1.83	0.96
27:Z2:223:LEU:HD11	27:Z2:263:TRP:HE1	1.30	0.96
27:Z2:297:TYR:CE2	27:Z2:321:ASP:CG	2.43	0.96
1:A2:1196:GLU:O	1:A1:592:ASP:OD2	1.83	0.96
1:A3:871:ASN:HA	4:D1:515:ASN:HB3	0.97	0.96
9:I1:838:GLU:CG	15:O1:198:ARG:HH21	1.68	0.96
9:I2:916:ALA:CB	15:O3:193:ALA:H	1.78	0.96
9:I2:1095:TYR:HE1	15:O3:267:ALA:N	1.57	0.96
9:I2:1106:LYS:CB	15:O3:275:LEU:CG	2.41	0.96
9:I2:1246:ILE:HD11	14:N3:408:MET:CA	1.45	0.96
17:Q1:907:THR:HG22	17:Q1:923:HIS:HB2	1.44	0.96
18:R1:402:GLY:H	18:R1:444:ALA:CB	1.75	0.96
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HZ3	1.72	0.96
26:Y2:1211:LEU:CA	26:Y2:1212:ARG:H	1.77	0.96
26:Y2:1334:LEU:CB	27:Z1:108:ALA:HB3	1.87	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1366:LEU:O	26:Y2:1370:THR:HG23	1.65	0.96
27:Z1:34:ARG:CG	27:Z1:95:TRP:HH2	1.78	0.96
27:Z1:303:ALA:HB1	27:Z1:363:LEU:CD2	1.96	0.96
27:Z2:131:LEU:HD13	27:Z2:187:PHE:HE2	1.19	0.96
27:Z2:135:LYS:O	27:Z2:217:LEU:HB2	1.66	0.96
29:b1:69:VAL:HB	29:b2:58:HIS:ND1	1.80	0.96
1:A1:827:ILE:HG23	1:A1:850:PRO:N	1.80	0.96
1:A2:1200:ARG:CB	1:A1:595:GLU:HB2	1.94	0.96
6:F1:1392:LEU:HD21	15:O2:259:ASP:OD1	0.79	0.96
9:I1:1051:LYS:N	14:N1:293:LYS:HD2	1.80	0.96
9:I2:919:ALA:HB3	16:P3:157:GLU:CA	1.82	0.96
22:U1:290:SER:OG	25:X1:798:ASN:HB3	1.35	0.96
25:X1:665:TRP:CZ2	25:X1:669:LEU:HD11	2.01	0.96
26:Y1:1295:VAL:CA	27:Z1:588:TRP:CZ3	2.47	0.96
26:Y1:1450:GLY:HA3	27:Z1:330:ASP:OD2	1.62	0.96
27:Z1:45:TRP:HZ2	27:Z1:95:TRP:CH2	1.49	0.96
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:CD2	1.62	0.96
27:Z1:213:PRO:HG2	27:Z1:216:LEU:HD23	1.43	0.96
27:Z1:239:SER:O	27:Z1:241:THR:N	1.99	0.96
27:Z1:297:TYR:CE2	27:Z1:321:ASP:CG	2.43	0.96
27:Z2:34:ARG:CG	27:Z2:95:TRP:HH2	1.78	0.96
1:A4:827:ILE:HG23	1:A4:850:PRO:N	1.80	0.96
4:D1:673:LEU:HD21	1:A1:1094:ILE:HG23	1.47	0.96
6:F1:1049:GLN:O	9:I1:1388:GLU:N	1.97	0.96
9:I1:977:ASN:CB	15:O1:177:HIS:H	1.78	0.96
9:I1:978:LYS:HZ2	15:O1:184:ARG:HH21	0.98	0.96
9:I1:1051:LYS:HG3	14:N1:289:PHE:HZ	1.14	0.96
9:I2:811:SER:HA	15:O3:245:GLU:OE2	1.63	0.96
9:I2:976:ARG:HB2	14:N3:297:ALA:HB2	0.98	0.96
17:Q2:60:VAL:HG21	17:Q2:63:GLU:HG3	1.46	0.96
22:U1:185:VAL:H	27:Z1:664:ARG:NH2	1.62	0.96
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD11	1.00	0.96
25:X2:692:LYS:HB3	27:Z2:431:TRP:CH2	2.01	0.96
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:CE	1.77	0.96
27:Z1:179:VAL:CG2	27:Z1:206:PHE:HD2	1.70	0.96
27:Z1:209:TYR:CD1	27:Z1:335:MET:CA	2.49	0.96
1:A2:1204:TRP:CD1	1:A1:599:ARG:CB	2.48	0.96
1:A2:1237:LEU:CG	1:A1:588:SER:OG	2.12	0.96
1:A2:1328:ARG:CB	4:D1:976:ARG:NH1	2.07	0.96
1:A4:1053:ARG:NE	4:D3:671:ARG:HH22	1.64	0.96
9:I1:914:ASN:ND2	13:M1:538:THR:N	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:918:SER:OG	15:O1:193:ALA:HB3	1.64	0.96
9:I2:809:HIS:CD2	15:O3:243:LEU:N	2.32	0.96
9:I2:906:GLY:HA3	13:M3:573:ARG:HD2	0.97	0.96
9:I2:1103:LEU:HD11	13:M3:611:LYS:HB3	1.47	0.96
25:X1:790:ASN:N	27:Z1:669:THR:C	0.86	0.96
26:Y2:1316:GLU:HG3	27:Z2:609:LEU:HD21	1.47	0.96
27:Z2:129:LYS:CE	27:Z2:185:LEU:CB	2.37	0.96
27:Z2:141:CYS:SG	27:Z2:213:PRO:HB2	2.05	0.96
29:b1:16:ILE:CD1	29:b1:77:VAL:HG13	1.94	0.96
7:G2:249:ASP:CB	15:O4:254:ARG:HE	1.78	0.96
9:I1:1315:GLN:HG2	15:O1:269:ILE:H	1.28	0.96
9:I2:1308:THR:OG1	14:N3:413:VAL:CG1	2.14	0.96
17:Q2:538:ILE:HD13	17:Q2:567:PHE:CE1	2.00	0.96
19:R2:527:VAL:HB	19:R2:580:PHE:CZ	2.00	0.96
25:X1:645:THR:N	27:Z1:535:PHE:CE2	2.32	0.96
27:Z1:180:ASN:OD1	27:Z1:200:THR:OG1	1.84	0.96
27:Z1:188:SER:OG	27:Z1:195:TYR:HE2	1.46	0.96
27:Z1:531:ILE:HD11	27:Z2:541:LYS:HD3	0.98	0.96
27:Z2:669:THR:CG2	27:Z2:680:TRP:CZ2	2.48	0.96
29:b1:56:THR:CA	29:b1:57:TRP:N	2.29	0.96
9:I1:980:ILE:CD1	15:O1:172:ALA:O	2.14	0.96
9:I2:1029:LEU:CG	13:M3:613:ASP:CB	1.97	0.96
22:U1:293:GLN:CG	26:Y1:1371:VAL:HG22	1.96	0.96
25:X1:665:TRP:HZ2	27:Z1:560:LEU:HD11	1.07	0.96
25:X2:755:LEU:HD13	26:Y2:1349:LEU:HD21	0.96	0.96
26:Y1:1382:VAL:C	26:Y1:1384:LYS:CB	2.36	0.96
26:Y2:1120:SER:O	26:Y2:1120:SER:OG	1.79	0.96
27:Z1:141:CYS:SG	27:Z1:213:PRO:HB2	2.05	0.96
27:Z1:149:ASP:CG	27:Z1:182:ILE:HG22	1.91	0.96
27:Z2:26:ILE:CG2	27:Z2:440:MET:CE	2.36	0.96
27:Z2:34:ARG:CD	27:Z2:47:ASN:HD22	1.79	0.96
27:Z2:282:GLN:C	27:Z2:283:GLY:HA2	1.88	0.96
27:Z2:342:TYR:CE1	27:Z2:344:TYR:HE2	1.84	0.96
29:b2:46:LYS:HE3	29:b2:59:VAL:CG2	1.95	0.96
1:A3:1082:LEU:O	4:D3:1096:TYR:CZ	2.19	0.95
1:A3:1331:GLU:CG	4:D3:874:ALA:N	2.29	0.95
1:A4:827:ILE:CG2	1:A4:849:SER:HA	1.96	0.95
7:G2:250:THR:O	15:O4:252:VAL:CA	2.07	0.95
9:I1:896:PRO:HB3	13:M1:583:ASP:C	1.90	0.95
9:I1:900:ARG:N	13:M1:580:LYS:CD	1.96	0.95
9:I2:1103:LEU:CG	13:M3:614:ASP:HB3	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:299:GLU:HB2	27:Z1:652:GLN:CA	1.95	0.95
25:X2:690:GLN:HA	27:Z2:7:LEU:CG	1.50	0.95
27:Z1:34:ARG:CD	27:Z1:47:ASN:HD22	1.79	0.95
27:Z1:135:LYS:O	27:Z1:217:LEU:HB2	1.66	0.95
27:Z1:343:VAL:CA	27:Z1:346:ASN:ND2	2.29	0.95
1:A2:1091:VAL:HA	4:D1:1104:GLU:OE2	1.65	0.95
6:F1:138:ILE:HG23	9:I1:1391:THR:HB	1.47	0.95
6:F1:1056:ARG:NH1	9:I1:1388:GLU:OE2	1.98	0.95
9:I2:890:TYR:O	13:M3:587:GLU:HG3	1.66	0.95
9:I2:899:LEU:HD21	13:M3:583:ASP:HB3	1.40	0.95
9:I2:914:ASN:HB3	15:O3:190:ARG:C	1.90	0.95
9:I2:1102:GLN:CD	15:O3:269:ILE:O	2.08	0.95
17:Q2:1016:PHE:CZ	17:Q2:1068:GLU:HG3	2.01	0.95
25:X2:800:HIS:NE2	27:Z2:691:SER:OG	1.99	0.95
27:Z2:136:SER:C	27:Z2:217:LEU:HG	1.91	0.95
27:Z2:422:ARG:NE	27:Z2:442:ASN:ND2	2.13	0.95
1:A2:1328:ARG:NH2	4:D1:898:ASP:OD1	1.99	0.95
6:F1:1265:GLN:CG	15:O2:252:VAL:HG23	1.95	0.95
6:F1:1267:ARG:CB	15:O2:254:ARG:HD2	1.90	0.95
18:R1:537:PHE:HB2	18:R1:546:LEU:CD2	1.97	0.95
25:X2:694:ASP:C	27:Z2:432:ASN:H	1.68	0.95
25:X2:823:LYS:HB3	27:Z1:259:LEU:HD22	1.42	0.95
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:CG1	2.13	0.95
27:Z1:136:SER:C	27:Z1:217:LEU:HG	1.91	0.95
27:Z1:343:VAL:C	27:Z1:346:ASN:HD22	1.75	0.95
27:Z1:404:PRO:CA	27:Z2:271:ASP:OD2	2.14	0.95
27:Z2:23:PRO:N	27:Z2:23:PRO:C	2.24	0.95
27:Z2:74:SER:OG	27:Z2:74:SER:O	1.75	0.95
9:I1:1255:HIS:CE1	15:O1:254:ARG:HD3	1.87	0.95
9:I2:1048:GLU:O	16:P3:141:ALA:N	1.96	0.95
9:I2:1049:LEU:HB3	14:N3:292:ARG:C	1.90	0.95
18:R1:586:GLN:HE21	18:R1:630:LEU:HD13	1.30	0.95
25:X2:755:LEU:CD1	26:Y2:1349:LEU:HD11	1.94	0.95
27:Z1:24:ARG:CZ	27:Z1:440:MET:CB	2.38	0.95
27:Z1:135:LYS:O	27:Z1:217:LEU:CB	2.13	0.95
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CG	1.95	0.95
27:Z2:133:HIS:HD1	27:Z2:211:PHE:HE1	0.95	0.95
27:Z2:184:ASP:OD2	27:Z2:197:LEU:CD2	2.15	0.95
27:Z2:217:LEU:HD23	27:Z2:269:LYS:HG2	1.44	0.95
29:b1:56:THR:C	29:b1:56:THR:CG2	2.38	0.95
1:A2:1237:LEU:HD11	1:A1:588:SER:HB3	0.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1332:ARG:CZ	4:D3:903:ILE:HG13	1.96	0.95
1:A4:1053:ARG:HD3	4:D3:671:ARG:NH2	1.79	0.95
9:I1:1667:GLN:HE21	9:I2:1669:ARG:HB2	1.28	0.95
9:I2:895:ARG:NH2	13:M3:589:GLY:CA	2.29	0.95
9:I2:928:LEU:CD2	15:O3:179:LEU:HD23	1.96	0.95
17:Q1:824:ASN:CA	17:Q1:827:THR:HB	1.96	0.95
19:R2:537:PHE:HB2	19:R2:546:LEU:CD2	1.96	0.95
19:R2:586:GLN:HE21	19:R2:630:LEU:HD13	1.30	0.95
25:X1:662:ILE:HD11	27:Z1:549:ILE:HG23	1.48	0.95
25:X2:648:LEU:CD1	27:Z2:535:PHE:CZ	2.50	0.95
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:CG1	2.13	0.95
27:Z2:297:TYR:CE2	27:Z2:321:ASP:OD1	2.19	0.95
9:I2:1103:LEU:HB3	13:M3:614:ASP:HB3	1.42	0.95
20:S2:574:THR:H	21:T2:86:ASN:ND2	1.63	0.95
22:U1:241:ARG:CB	27:Z1:656:SER:HB2	1.95	0.95
25:X1:742:GLN:CG	25:X1:743:GLN:N	2.19	0.95
25:X2:695:GLN:HE21	27:Z2:431:TRP:CD1	1.84	0.95
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CG	2.13	0.95
26:Y2:1403:ARG:CZ	27:Z2:700:GLU:HB3	1.96	0.95
27:Z1:126:SER:N	27:Z1:147:GLU:CD	2.24	0.95
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:HD23	1.23	0.95
27:Z2:216:LEU:CD2	27:Z2:272:ILE:HD11	1.83	0.95
27:Z2:417:ILE:HG21	27:Z2:448:GLN:HE22	1.30	0.95
1:A3:1220:PRO:HB2	1:A4:595:GLU:OE1	0.99	0.95
1:A3:1400:SER:N	4:D3:869:THR:HG22	1.76	0.95
9:I1:909:ARG:N	13:M1:548:LEU:HD21	1.80	0.95
9:I2:977:ASN:O	15:O3:174:LEU:HB3	1.66	0.95
9:I2:1099:ARG:O	15:O3:272:SER:CB	2.13	0.95
9:I2:1304:ASN:OD1	14:N3:412:ASN:HA	1.62	0.95
10:J2:247:ASP:OD1	15:O3:279:ILE:CD1	2.13	0.95
17:Q1:441:ARG:NH2	17:Q1:508:ASN:CB	2.16	0.95
22:U1:192:ILE:CB	27:Z1:664:ARG:HG3	1.96	0.95
26:Y1:1338:GLN:O	27:Z1:630:TRP:HH2	0.93	0.95
27:Z1:45:TRP:HZ2	27:Z1:95:TRP:HH2	1.11	0.95
27:Z1:129:LYS:HE3	27:Z1:185:LEU:CG	1.76	0.95
27:Z1:137:TYR:CB	27:Z1:217:LEU:CD2	2.43	0.95
27:Z1:252:GLN:HE22	27:Z1:334:SER:C	1.75	0.95
27:Z1:297:TYR:CE2	27:Z1:321:ASP:OD1	2.19	0.95
29:b1:80:TYR:CE1	29:b1:85:ALA:HB2	2.01	0.95
1:A2:1201:ARG:HE	1:A1:647:GLU:HB3	1.30	0.95
1:A3:1070:ASP:O	9:I2:1238:LYS:HD2	1.53	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1030:ARG:HG2	13:M3:617:THR:HB	1.48	0.95
9:I2:1254:VAL:N	14:N3:408:MET:C	2.12	0.95
18:R1:402:GLY:N	18:R1:444:ALA:HB2	1.66	0.95
25:X2:655:PHE:HZ	27:Z2:545:LEU:HB3	1.13	0.95
27:Z1:252:GLN:CB	27:Z1:335:MET:HE3	1.95	0.95
27:Z1:422:ARG:CZ	27:Z1:442:ASN:ND2	2.30	0.95
27:Z2:216:LEU:HD11	27:Z2:272:ILE:HD11	1.12	0.95
27:Z2:252:GLN:HE21	27:Z2:335:MET:CG	1.78	0.95
27:Z2:358:ARG:CZ	27:Z2:382:GLN:NE2	2.29	0.95
27:Z2:669:THR:CG2	27:Z2:680:TRP:CH2	2.49	0.95
6:F1:138:ILE:CD1	9:I1:1388:GLU:HA	1.97	0.95
9:I1:896:PRO:HA	13:M1:583:ASP:CB	1.88	0.95
9:I1:978:LYS:HG2	15:O1:176:ARG:HH11	0.78	0.95
9:I2:896:PRO:CA	13:M3:584:GLN:HG2	1.42	0.95
9:I2:914:ASN:CB	15:O3:194:GLU:HB2	1.96	0.95
9:I2:1105:TRP:HB3	15:O3:276:GLY:O	1.64	0.95
22:U1:209:PRO:CG	27:Z1:658:LEU:C	2.37	0.95
22:U1:248:LYS:HG2	25:X1:805:ARG:C	1.91	0.95
26:Y1:1449:ILE:HG23	26:Y1:1453:PHE:CE2	2.00	0.95
26:Y2:1333:ASP:H	27:Z1:94:PRO:CA	1.80	0.95
27:Z1:252:GLN:HE21	27:Z1:335:MET:CG	1.78	0.95
27:Z1:343:VAL:O	27:Z1:346:ASN:ND2	1.99	0.95
27:Z1:364:ILE:O	27:Z1:373:LEU:HD12	1.66	0.95
27:Z1:395:LYS:HE2	27:Z2:267:PHE:N	1.82	0.95
27:Z1:541:LYS:HB2	27:Z2:550:HIS:O	1.41	0.95
27:Z2:137:TYR:CB	27:Z2:217:LEU:CD2	2.43	0.95
27:Z2:239:SER:O	27:Z2:241:THR:N	1.99	0.95
27:Z2:343:VAL:CA	27:Z2:346:ASN:ND2	2.29	0.95
29:b1:16:ILE:HG23	29:b1:76:PHE:O	1.66	0.95
1:A2:1269:ALA:HB3	1:A1:729:SER:H	1.32	0.95
1:A3:1070:ASP:CG	9:I2:1238:LYS:HB2	1.78	0.95
6:F2:158:PRO:HB3	9:I2:1337:ALA:HB1	0.97	0.95
9:I1:918:SER:CB	15:O1:193:ALA:CB	2.44	0.95
9:I1:918:SER:HA	15:O1:193:ALA:CA	1.95	0.95
9:I2:893:LEU:HD11	15:O3:243:LEU:HB3	1.46	0.95
9:I2:1029:LEU:HG	13:M3:613:ASP:CG	1.92	0.95
9:I2:1254:VAL:H	14:N3:411:GLN:N	1.63	0.95
18:R1:409:LYS:HZ2	18:R1:448:ILE:HA	1.30	0.95
22:U1:294:VAL:HA	27:Z1:661:GLU:OE1	1.64	0.95
25:X2:655:PHE:HE1	27:Z1:534:GLU:OE2	1.47	0.95
26:Y2:1334:LEU:HD22	27:Z1:107:ASP:O	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:116:ILE:HD13	27:Z1:125:SER:O	1.67	0.95
27:Z1:137:TYR:HA	27:Z1:217:LEU:HD21	0.98	0.95
27:Z1:314:ILE:HG22	27:Z1:326:LEU:CD1	1.97	0.95
27:Z1:358:ARG:CZ	27:Z1:382:GLN:NE2	2.29	0.95
9:I1:1667:GLN:HG3	9:I2:1669:ARG:CB	1.90	0.94
9:I2:960:SER:CB	16:P3:154:ALA:N	2.30	0.94
22:U1:294:VAL:CG1	27:Z1:661:GLU:OE1	2.01	0.94
22:U1:296:LEU:HB2	27:Z1:657:TYR:N	1.82	0.94
25:X1:800:HIS:HD2	27:Z1:694:ILE:HD12	1.31	0.94
25:X1:800:HIS:NE2	27:Z1:691:SER:OG	1.99	0.94
26:Y1:1403:ARG:CZ	27:Z1:700:GLU:HB3	1.96	0.94
27:Z1:46:TYR:HE1	27:Z1:48:VAL:HG22	1.30	0.94
27:Z1:152:THR:HG1	27:Z1:154:PHE:HE1	1.05	0.94
27:Z2:284:PRO:N	27:Z2:284:PRO:CD	2.28	0.94
27:Z2:352:GLU:O	27:Z2:352:GLU:HG3	1.67	0.94
1:A2:1228:TYR:CD2	1:A1:642:ARG:NH2	2.20	0.94
1:A4:1053:ARG:HE	4:D3:671:ARG:NH2	1.65	0.94
9:I2:809:HIS:NE2	15:O3:243:LEU:CG	2.29	0.94
9:I2:1103:LEU:O	13:M3:615:PRO:HD2	1.67	0.94
9:I2:1105:TRP:CE3	15:O3:273:ASP:CA	2.47	0.94
20:S1:566:ASP:CB	21:T1:85:GLU:OE2	2.05	0.94
22:U1:243:PHE:CE2	27:Z1:660:SER:OG	2.14	0.94
24:W1:526:ARG:CD	24:W1:740:PHE:CB	2.45	0.94
25:X2:823:LYS:HD2	27:Z1:272:ILE:N	1.66	0.94
27:Z1:170:ASN:ND2	27:Z1:177:ALA:HB1	1.81	0.94
27:Z2:117:ASP:CA	27:Z2:124:LYS:HZ1	1.51	0.94
27:Z2:205:ILE:HG22	27:Z2:285:PHE:CE2	2.02	0.94
27:Z2:449:ASN:ND2	27:Z2:576:ASP:HB2	1.82	0.94
1:A2:1201:ARG:CG	1:A1:647:GLU:CB	2.46	0.94
1:A2:1280:GLN:O	1:A1:635:ARG:CD	2.15	0.94
9:I1:977:ASN:HD22	15:O1:178:ASP:H	0.97	0.94
17:Q2:526:SER:HB3	17:Q2:531:LEU:HD11	1.48	0.94
17:Q2:545:TYR:CE2	17:Q2:546:ILE:HD12	2.02	0.94
25:X1:648:LEU:CD1	27:Z1:535:PHE:CZ	2.50	0.94
25:X2:708:GLU:HG2	27:Z2:598:LEU:HD21	1.45	0.94
25:X2:778:LYS:HG3	25:X2:794:ILE:C	1.92	0.94
26:Y2:1334:LEU:CD1	27:Z1:108:ALA:N	2.29	0.94
27:Z1:422:ARG:NE	27:Z1:442:ASN:ND2	2.13	0.94
27:Z1:428:TYR:OH	27:Z1:435:SER:HB2	1.65	0.94
27:Z2:35:ILE:HG13	27:Z2:46:TYR:CZ	2.03	0.94
1:A3:1332:ARG:HH22	4:D3:902:SER:CA	1.80	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:135:VAL:HA	9:I1:1392:VAL:HG21	1.47	0.94
7:G2:249:ASP:CB	15:O4:254:ARG:NE	2.30	0.94
9:I2:813:ILE:CG2	15:O3:237:PRO:C	2.36	0.94
9:I2:914:ASN:CA	15:O3:194:GLU:HB2	1.97	0.94
22:U1:289:GLN:HG3	25:X1:794:ILE:CG2	1.96	0.94
25:X2:774:ASN:HB3	25:X2:797:LEU:HD12	1.45	0.94
26:Y2:1211:LEU:O	26:Y2:1215:GLU:CG	2.14	0.94
27:Z1:252:GLN:NE2	27:Z1:335:MET:H	1.51	0.94
27:Z1:304:THR:HG21	27:Z1:313:GLU:OE1	1.67	0.94
27:Z1:544:THR:HG23	27:Z2:558:PHE:CA	1.95	0.94
27:Z2:7:LEU:HD13	27:Z2:581:PHE:HE1	1.30	0.94
27:Z2:126:SER:N	27:Z2:147:GLU:CD	2.24	0.94
27:Z2:429:ILE:HG21	27:Z2:431:TRP:HE1	1.16	0.94
9:I2:1050:SER:HB2	15:O3:288:GLU:OE2	1.68	0.94
9:I2:1103:LEU:CB	13:M3:614:ASP:CB	2.44	0.94
9:I2:1305:LEU:HA	15:O3:264:ILE:HD11	1.48	0.94
17:Q1:922:LEU:CD2	18:R1:688:LEU:CB	2.44	0.94
17:Q2:572:ALA:HA	17:Q2:577:TYR:CE1	2.02	0.94
18:R1:402:GLY:H	18:R1:444:ALA:HB1	1.31	0.94
25:X2:778:LYS:HZ3	25:X2:795:LYS:HB2	1.32	0.94
26:Y2:1449:ILE:HG22	26:Y2:1453:PHE:CE2	2.02	0.94
27:Z1:651:LEU:O	27:Z1:655:LEU:HG	1.67	0.94
27:Z1:678:ASN:O	27:Z1:678:ASN:CG	2.09	0.94
27:Z2:46:TYR:HE1	27:Z2:48:VAL:HG22	1.30	0.94
27:Z2:137:TYR:HA	27:Z2:217:LEU:HD21	0.98	0.94
1:A2:1280:GLN:O	1:A1:635:ARG:NE	1.77	0.94
6:F1:274:PHE:HB2	9:I1:1207:PRO:N	1.83	0.94
9:I2:925:LEU:HD12	15:O3:186:PHE:HB3	1.50	0.94
17:Q1:922:LEU:HD21	18:R1:688:LEU:HD23	1.47	0.94
17:Q1:1016:PHE:CZ	17:Q1:1068:GLU:HG3	2.02	0.94
22:U1:243:PHE:HE2	27:Z1:660:SER:H	1.12	0.94
24:W1:557:CYS:SG	24:W1:742:GLU:O	2.25	0.94
25:X2:778:LYS:HG2	25:X2:792:GLN:C	1.90	0.94
26:Y2:1449:ILE:HG23	26:Y2:1453:PHE:CE2	2.00	0.94
27:Z1:358:ARG:NH1	27:Z1:382:GLN:HE22	1.65	0.94
4:D1:468:LYS:HE3	1:A1:998:SER:C	1.92	0.94
6:F1:141:ALA:HB1	9:I1:1390:PHE:HD2	1.14	0.94
17:Q1:382:ARG:N	17:Q1:508:ASN:OD1	2.00	0.94
17:Q2:824:ASN:CA	17:Q2:827:THR:HB	1.96	0.94
18:R1:409:LYS:HZ2	18:R1:448:ILE:CB	1.80	0.94
25:X2:800:HIS:HD2	27:Z2:694:ILE:HD12	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1120:SER:OG	26:Y1:1120:SER:O	1.79	0.94
27:Z1:410:PHE:O	27:Z1:410:PHE:CD2	2.20	0.94
27:Z2:16:SER:CA	27:Z2:16:SER:N	2.30	0.94
27:Z2:149:ASP:CG	27:Z2:182:ILE:HG22	1.91	0.94
27:Z2:213:PRO:CD	27:Z2:216:LEU:CD2	2.46	0.94
27:Z2:304:THR:HG21	27:Z2:313:GLU:OE1	1.67	0.94
27:Z2:641:PHE:C	27:Z2:641:PHE:N	2.26	0.94
29:b1:59:VAL:O	29:b1:59:VAL:HG23	1.65	0.94
29:b1:75:HIS:CE1	29:b1:90:LYS:CD	2.48	0.94
1:A2:1201:ARG:NH1	1:A1:644:ALA:O	2.01	0.94
1:A2:1221:ILE:CG1	1:A1:600:LYS:HE3	1.97	0.94
1:A4:929:ASN:HD21	4:D3:468:LYS:HE3	1.13	0.94
6:F1:163:ASP:CG	9:I1:1331:LYS:HB3	1.93	0.94
9:I2:895:ARG:N	13:M3:587:GLU:HG2	1.83	0.94
9:I2:911:PRO:CG	15:O3:197:ARG:HG2	1.97	0.94
9:I2:914:ASN:HB3	15:O3:190:ARG:O	0.77	0.94
9:I2:925:LEU:CD1	15:O3:186:PHE:HB2	1.77	0.94
9:I2:968:PRO:HG2	14:N3:300:ALA:C	1.91	0.94
17:Q1:526:SER:HB3	17:Q1:531:LEU:HD11	1.48	0.94
17:Q1:545:TYR:CE2	17:Q1:546:ILE:HD12	2.02	0.94
17:Q1:919:GLU:OE1	18:R1:683:PHE:HD2	1.44	0.94
25:X1:755:LEU:HD13	26:Y1:1349:LEU:HD21	0.96	0.94
25:X1:790:ASN:OD1	27:Z1:680:TRP:CH2	2.21	0.94
25:X2:662:ILE:HD11	27:Z2:549:ILE:HG23	1.48	0.94
25:X2:665:TRP:CZ2	25:X2:669:LEU:HD11	2.01	0.94
25:X2:750:THR:HG22	25:X2:754:ASN:HD21	1.31	0.94
26:Y2:1334:LEU:CG	27:Z1:108:ALA:N	2.27	0.94
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:CG	1.81	0.94
27:Z1:24:ARG:NH2	27:Z1:440:MET:HB3	1.72	0.94
27:Z1:123:PRO:C	27:Z1:123:PRO:N	2.26	0.94
27:Z1:133:HIS:HD1	27:Z1:211:PHE:HE1	0.95	0.94
27:Z1:178:ARG:HH22	27:Z1:340:ASP:CG	1.76	0.94
27:Z1:218:LEU:CD1	27:Z1:223:LEU:CD2	2.45	0.94
27:Z1:544:THR:HG21	27:Z2:558:PHE:H	1.30	0.94
27:Z1:598:LEU:CD2	27:Z1:601:ARG:HH21	1.80	0.94
27:Z2:27:PHE:CZ	27:Z2:36:VAL:HB	2.02	0.94
27:Z2:179:VAL:HG22	27:Z2:206:PHE:HD2	1.26	0.94
27:Z2:180:ASN:OD1	27:Z2:200:THR:OG1	1.84	0.94
9:I2:894:VAL:CB	13:M3:587:GLU:HG2	1.97	0.94
9:I2:899:LEU:N	13:M3:584:GLN:CD	2.25	0.94
25:X1:717:LYS:NZ	26:Y1:1320:LEU:HD12	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:795:LYS:HZ3	27:Z1:666:GLU:CG	1.80	0.94
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:CG	1.81	0.94
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CE1	2.44	0.94
27:Z1:116:ILE:HD12	27:Z1:125:SER:O	1.67	0.94
27:Z1:381:ILE:HG21	27:Z1:417:ILE:HD11	1.47	0.94
27:Z1:544:THR:HG1	27:Z2:555:GLU:HA	1.26	0.94
27:Z2:343:VAL:C	27:Z2:346:ASN:HD22	1.75	0.94
27:Z2:422:ARG:CZ	27:Z2:442:ASN:ND2	2.30	0.94
27:Z2:662:LEU:O	27:Z2:666:GLU:HG3	1.68	0.94
1:A2:1229:VAL:CG2	1:A1:640:LEU:N	2.30	0.94
9:I1:1667:GLN:HE22	9:I2:1669:ARG:CD	1.58	0.94
9:I2:1253:GLY:HA2	14:N3:410:MET:H	0.78	0.94
17:Q1:859:ASP:HB3	17:Q1:862:PHE:CB	1.98	0.94
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CA	2.49	0.94
27:Z1:27:PHE:CZ	27:Z1:36:VAL:HB	2.01	0.94
27:Z2:252:GLN:HE22	27:Z2:334:SER:C	1.75	0.94
27:Z2:410:PHE:O	27:Z2:410:PHE:CD2	2.20	0.94
27:Z2:434:GLN:CB	27:Z2:580:LYS:NZ	2.31	0.94
6:F2:142:ALA:HB3	9:I2:1395:LEU:HD11	1.45	0.93
9:I1:916:ALA:CB	13:M1:534:GLN:HE21	1.80	0.93
9:I1:1315:GLN:O	15:O1:269:ILE:CG1	2.16	0.93
17:Q1:568:LEU:CD2	17:Q1:588:ILE:HD11	1.99	0.93
17:Q1:572:ALA:HA	17:Q1:577:TYR:HE1	1.33	0.93
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CD2	2.03	0.93
26:Y1:1316:GLU:HG3	27:Z1:609:LEU:HD21	1.47	0.93
26:Y1:1389:SER:CB	26:Y2:1357:ASN:ND2	2.30	0.93
27:Z2:170:ASN:ND2	27:Z2:177:ALA:HB1	1.81	0.93
27:Z2:178:ARG:HH22	27:Z2:340:ASP:CG	1.75	0.93
1:A2:1332:ARG:O	4:D1:906:ARG:N	2.00	0.93
1:A4:622:GLY:O	4:D3:977:GLU:HG3	1.69	0.93
6:F1:1808:VAL:N	14:N2:412:ASN:CA	2.29	0.93
9:I1:961:ARG:HH12	15:O1:190:ARG:CA	1.80	0.93
13:M3:476:THR:OG1	14:N4:323:ARG:HD3	1.68	0.93
17:Q1:382:ARG:H	17:Q1:512:ILE:HB	1.22	0.93
17:Q1:925:ASN:OD1	18:R1:691:THR:C	2.11	0.93
17:Q2:69:VAL:HG12	17:Q2:477:PHE:HD1	1.34	0.93
17:Q2:859:ASP:HB3	17:Q2:862:PHE:CB	1.98	0.93
27:Z1:598:LEU:HD23	27:Z1:601:ARG:HH21	1.32	0.93
27:Z2:218:LEU:CD1	27:Z2:223:LEU:CD2	2.45	0.93
29:b1:56:THR:C	29:b1:56:THR:HG22	1.93	0.93
1:A2:1237:LEU:CD2	1:A1:588:SER:HG	1.64	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1237:LEU:HD21	1:A1:588:SER:CB	1.98	0.93
6:F1:1808:VAL:N	14:N2:412:ASN:OD1	2.02	0.93
9:I1:841:PHE:HD1	15:O1:191:ARG:HE	0.98	0.93
9:I1:908:ARG:NE	15:O1:209:LEU:CD1	2.28	0.93
9:I2:1049:LEU:N	16:P3:141:ALA:HB2	1.78	0.93
9:I2:1051:LYS:HA	14:N3:292:ARG:NH1	1.82	0.93
9:I2:1160:ILE:HD13	15:O3:264:ILE:HD13	1.49	0.93
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:HD2	1.32	0.93
17:Q2:929:LEU:HB3	19:R2:714:TYR:CZ	2.04	0.93
24:W1:400:LYS:CE	24:W1:716:GLU:CB	2.47	0.93
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:HG12	1.25	0.93
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:HB2	0.96	0.93
27:Z1:241:THR:HG21	27:Z1:246:LYS:CG	1.96	0.93
27:Z2:12:ILE:HG23	27:Z2:37:PHE:CD2	2.03	0.93
27:Z2:26:ILE:HG21	27:Z2:440:MET:CE	1.98	0.93
27:Z2:116:ILE:HD12	27:Z2:125:SER:O	1.68	0.93
27:Z2:241:THR:HG21	27:Z2:246:LYS:CG	1.96	0.93
27:Z2:314:ILE:HG22	27:Z2:326:LEU:CD1	1.96	0.93
27:Z2:598:LEU:HD23	27:Z2:601:ARG:HH21	1.33	0.93
29:b2:29:LYS:HG2	29:b2:81:ILE:HD13	1.50	0.93
9:I1:912:VAL:HG23	15:O1:198:ARG:CZ	1.97	0.93
9:I1:966:TRP:HA	15:O1:181:HIS:N	1.26	0.93
9:I2:896:PRO:HD3	13:M3:588:MET:CB	1.98	0.93
9:I2:900:ARG:CD	15:O3:235:ASN:CA	2.23	0.93
9:I2:1030:ARG:HH21	13:M3:607:SER:HB2	1.30	0.93
9:I2:1051:LYS:CE	14:N3:289:PHE:HA	1.98	0.93
17:Q1:572:ALA:HA	17:Q1:577:TYR:CE1	2.02	0.93
17:Q1:928:LYS:HE2	18:R1:695:ALA:CB	1.97	0.93
19:R2:506:ILE:HG13	19:R2:507:ASP:H	1.32	0.93
25:X2:710:PHE:HZ	26:Y2:1313:ALA:CB	1.82	0.93
25:X2:717:LYS:NZ	26:Y2:1320:LEU:HD12	1.83	0.93
25:X2:811:SER:C	26:Y2:1402:LEU:HD11	1.94	0.93
26:Y1:1118:ALA:HB1	29:b1:71:HIS:NE2	1.83	0.93
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HD13	1.98	0.93
27:Z1:34:ARG:CG	27:Z1:95:TRP:CH2	2.52	0.93
27:Z1:209:TYR:CG	27:Z1:210:PRO:HD3	2.04	0.93
27:Z2:292:GLY:O	27:Z2:295:TYR:HD1	1.51	0.93
27:Z2:294:LEU:CD2	27:Z2:353:ARG:HH21	1.73	0.93
27:Z2:579:ARG:O	27:Z2:581:PHE:O	1.86	0.93
29:b2:46:LYS:CE	29:b2:59:VAL:H	1.79	0.93
1:A2:1201:ARG:HE	1:A1:647:GLU:CA	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:142:ALA:HB1	9:I1:1395:LEU:N	1.83	0.93
9:I1:903:GLY:HA2	13:M1:575:TYR:HB2	1.51	0.93
9:I1:1048:GLU:CD	15:O1:171:ASP:N	2.26	0.93
9:I2:1103:LEU:CB	13:M3:614:ASP:HB3	1.97	0.93
22:U1:212:LYS:HZ2	25:X1:768:GLU:HG2	1.31	0.93
25:X2:697:LEU:HB2	27:Z2:432:ASN:ND2	1.82	0.93
26:Y2:1218:PHE:CE1	26:Y2:1222:GLU:OE2	2.21	0.93
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CG	2.45	0.93
27:Z2:428:TYR:OH	27:Z2:435:SER:HB2	1.65	0.93
27:Z2:651:LEU:O	27:Z2:655:LEU:HG	1.67	0.93
1:A2:1221:ILE:CD1	1:A1:596:ARG:CD	2.47	0.93
1:A2:1226:LEU:HD11	1:A1:646:ILE:H	1.32	0.93
6:F1:158:PRO:HG2	9:I1:1340:LEU:N	1.79	0.93
9:I1:844:LYS:HZ3	13:M1:539:ALA:HB2	1.29	0.93
9:I1:916:ALA:HB1	13:M1:534:GLN:HE21	1.33	0.93
9:I1:919:ALA:O	15:O1:191:ARG:HG2	1.68	0.93
9:I1:966:TRP:CE2	15:O1:183:VAL:HG12	2.03	0.93
9:I2:1104:LEU:H	13:M3:611:LYS:HZ3	1.02	0.93
17:Q1:294:THR:HG22	17:Q1:308:ILE:HG12	1.47	0.93
17:Q1:891:ILE:HD11	18:R1:715:LEU:HD21	1.50	0.93
22:U1:209:PRO:HD2	27:Z1:661:GLU:N	1.83	0.93
22:U1:290:SER:O	25:X1:801:PHE:HB3	1.68	0.93
25:X1:710:PHE:HZ	26:Y1:1313:ALA:CB	1.82	0.93
25:X1:778:LYS:HG3	25:X1:778:LYS:C	1.93	0.93
26:Y2:1431:MET:HA	26:Y2:1434:PHE:HD2	1.12	0.93
27:Z1:184:ASP:OD2	27:Z1:197:LEU:CD2	2.15	0.93
27:Z1:264:ASN:HD22	27:Z1:267:PHE:HD2	1.08	0.93
27:Z2:45:TRP:HZ2	27:Z2:95:TRP:HH2	1.12	0.93
27:Z2:116:ILE:HD13	27:Z2:125:SER:O	1.67	0.93
27:Z2:343:VAL:O	27:Z2:346:ASN:ND2	1.99	0.93
1:A2:1201:ARG:CD	1:A1:647:GLU:HB2	1.97	0.93
1:A2:1228:TYR:HE2	1:A1:642:ARG:HH21	1.15	0.93
1:A3:1332:ARG:NH2	4:D3:902:SER:CA	2.32	0.93
1:A3:1400:SER:H	4:D3:869:THR:CG2	1.79	0.93
7:G1:251:TYR:C	15:O2:247:TRP:H	1.65	0.93
7:G2:252:LEU:C	15:O4:252:VAL:CG2	2.41	0.93
9:I2:964:SER:HB2	16:P3:152:LYS:HB2	1.49	0.93
9:I2:1175:LYS:HE2	15:O3:277:GLU:OE2	1.67	0.93
9:I2:1308:THR:HG22	14:N3:414:ALA:CA	1.98	0.93
17:Q2:756:PHE:CZ	17:Q2:760:ILE:HD12	2.04	0.93
17:Q2:919:GLU:OE1	19:R2:683:PHE:HD2	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:248:LYS:HE2	25:X1:805:ARG:O	1.27	0.93
25:X1:803:ALA:HB2	26:Y1:1372:LYS:HG3	1.49	0.93
25:X2:665:TRP:HZ2	27:Z2:560:LEU:HD11	1.07	0.93
25:X2:777:ASN:OD1	26:Y2:1369:PHE:CZ	2.22	0.93
26:Y1:1218:PHE:CE1	26:Y1:1222:GLU:OE2	2.21	0.93
26:Y2:1123:GLN:CG	29:b1:39:ARG:HB2	1.98	0.93
26:Y2:1235:MET:O	26:Y2:1239:PHE:HD2	1.29	0.93
26:Y2:1295:VAL:HA	27:Z2:588:TRP:HZ3	1.13	0.93
27:Z1:544:THR:CA	27:Z2:558:PHE:HD2	1.82	0.93
27:Z2:135:LYS:CE	27:Z2:218:LEU:HD21	1.98	0.93
1:A3:1225:PRO:HA	1:A4:643:ALA:HB1	1.51	0.93
1:A4:715:GLU:HB3	4:D3:973:GLN:HE21	1.19	0.93
1:A4:1051:THR:OG1	4:D4:1096:TYR:HE2	1.32	0.93
6:F2:142:ALA:CB	9:I2:1395:LEU:HD21	1.99	0.93
9:I1:1669:ARG:NH1	9:I2:1611:PHE:C	2.26	0.93
9:I2:917:TYR:H	15:O3:190:ARG:HA	1.31	0.93
9:I2:928:LEU:HB3	15:O3:179:LEU:HD13	1.49	0.93
9:I2:1305:LEU:CA	15:O3:264:ILE:CD1	2.37	0.93
9:I2:1308:THR:N	14:N3:414:ALA:HA	1.82	0.93
25:X1:727:SER:CA	25:X1:727:SER:N	2.32	0.93
25:X1:750:THR:HG22	25:X1:754:ASN:HD21	1.30	0.93
25:X2:775:THR:CB	25:X2:794:ILE:CD1	2.47	0.93
26:Y2:1367:LYS:N	26:Y2:1383:ALA:HB3	1.75	0.93
27:Z1:24:ARG:HH21	27:Z1:440:MET:CB	1.76	0.93
27:Z1:135:LYS:CE	27:Z1:218:LEU:HD21	1.98	0.93
27:Z1:143:VAL:HG22	27:Z1:211:PHE:HZ	1.33	0.93
27:Z1:213:PRO:CD	27:Z1:216:LEU:CD2	2.46	0.93
27:Z1:641:PHE:C	27:Z1:641:PHE:N	2.26	0.93
27:Z2:289:PRO:C	27:Z2:289:PRO:CD	2.42	0.93
27:Z2:434:GLN:HG3	27:Z2:580:LYS:NZ	1.83	0.93
29:b1:16:ILE:HD11	29:b1:77:VAL:HG11	1.51	0.93
9:I1:908:ARG:HB2	15:O1:209:LEU:HD11	1.51	0.93
9:I1:963:LEU:CD1	15:O1:182:THR:HG21	1.98	0.93
9:I1:1360:GLU:O	15:O1:266:GLN:NE2	2.00	0.93
9:I2:1033:PRO:CG	13:M3:619:ILE:H	1.75	0.93
13:M3:469:GLU:CG	13:M4:536:GLU:OE1	2.17	0.93
25:X1:765:LEU:CD2	27:Z1:652:GLN:CD	2.16	0.93
25:X2:774:ASN:HB2	25:X2:794:ILE:C	1.94	0.93
27:Z1:26:ILE:CA	27:Z1:440:MET:CE	2.36	0.93
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:HB2	1.30	0.93
27:Z1:361:LYS:HZ3	27:Z1:378:ASP:HB2	1.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:541:LYS:CG	27:Z2:554:HIS:H	1.81	0.93
27:Z2:209:TYR:HB3	27:Z2:210:PRO:HD3	0.94	0.93
1:A2:1225:PRO:HB3	1:A1:640:LEU:HD22	0.95	0.93
9:I2:977:ASN:O	15:O3:174:LEU:HA	1.65	0.93
9:I2:982:GLN:HB2	15:O3:179:LEU:HD12	0.94	0.93
9:I2:1051:LYS:CD	14:N3:289:PHE:HD1	1.81	0.93
17:Q1:891:ILE:CD1	18:R1:715:LEU:CD2	2.31	0.93
19:R2:631:ILE:HD13	19:R2:632:LYS:HG3	1.51	0.93
22:U1:289:GLN:N	25:X1:798:ASN:N	2.10	0.93
25:X1:648:LEU:HB3	27:Z2:547:VAL:HG13	1.49	0.93
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:HA	1.99	0.93
26:Y2:1117:TYR:CA	26:Y2:1118:ALA:N	2.31	0.93
26:Y2:1317:TYR:CD1	27:Z1:48:VAL:C	2.47	0.93
27:Z1:209:TYR:HB3	27:Z1:210:PRO:HD3	0.94	0.93
27:Z1:282:GLN:C	27:Z1:283:GLY:HA2	1.87	0.93
27:Z1:401:ASP:C	27:Z2:262:ASN:CA	2.12	0.93
27:Z1:662:LEU:O	27:Z1:666:GLU:HG3	1.68	0.93
27:Z2:120:GLU:O	27:Z2:124:LYS:CG	2.15	0.93
27:Z2:143:VAL:HG22	27:Z2:211:PHE:HZ	1.33	0.93
27:Z2:598:LEU:CD2	27:Z2:601:ARG:HH21	1.81	0.93
29:b2:16:ILE:CD1	29:b2:77:VAL:HG11	1.97	0.93
1:A4:712:THR:HG22	4:D3:969:HIS:HB3	1.50	0.92
4:D1:1006:ASP:CB	1:A1:172:PRO:HB3	1.98	0.92
9:I1:906:GLY:CA	13:M1:572:GLU:CG	2.34	0.92
9:I1:980:ILE:CG1	15:O1:172:ALA:O	2.17	0.92
9:I2:960:SER:CB	16:P3:154:ALA:C	2.42	0.92
9:I2:1050:SER:N	16:P3:142:LEU:N	2.08	0.92
9:I2:1050:SER:HG	14:N3:292:ARG:HG3	1.22	0.92
9:I2:1095:TYR:HD1	15:O3:266:GLN:O	1.29	0.92
9:I2:1103:LEU:HB2	13:M3:611:LYS:CD	1.99	0.92
17:Q2:276:LEU:HB2	17:Q2:280:THR:HG23	1.51	0.92
17:Q2:568:LEU:CD2	17:Q2:588:ILE:HD11	1.99	0.92
22:U1:295:GLU:CB	27:Z1:657:TYR:CD2	2.50	0.92
25:X1:777:ASN:OD1	26:Y1:1369:PHE:CZ	2.21	0.92
25:X2:714:PHE:CZ	26:Y2:1316:GLU:CG	2.52	0.92
25:X2:777:ASN:O	25:X2:789:GLU:O	1.85	0.92
26:Y1:1430:ASP:C	26:Y1:1434:PHE:CD2	2.47	0.92
27:Z1:205:ILE:HG22	27:Z1:285:PHE:CE2	2.02	0.92
27:Z1:289:PRO:C	27:Z1:289:PRO:CD	2.42	0.92
27:Z2:15:ALA:O	27:Z2:16:SER:CA	2.16	0.92
27:Z2:416:ASP:CB	27:Z2:569:LYS:CE	2.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:429:ILE:HG22	27:Z2:431:TRP:CD1	2.05	0.92
1:A2:1204:TRP:HD1	1:A1:599:ARG:CB	1.81	0.92
1:A2:1233:GLN:HG2	1:A1:587:VAL:CG1	1.84	0.92
1:A3:1332:ARG:NH1	4:D3:899:THR:HA	1.84	0.92
4:D1:1030:ALA:HB3	1:A1:633:MET:HE2	1.51	0.92
7:G2:250:THR:N	15:O4:254:ARG:HD2	1.84	0.92
9:I2:1048:GLU:CD	14:N3:293:LYS:HE2	1.93	0.92
9:I2:1305:LEU:CD2	15:O3:260:LEU:HD11	1.97	0.92
19:R2:684:ILE:CD1	19:R2:722:ALA:HA	1.98	0.92
25:X1:776:PHE:CE1	25:X1:795:LYS:CD	2.50	0.92
25:X2:692:LYS:HD2	27:Z2:10:LEU:CB	1.97	0.92
27:Z1:422:ARG:NE	27:Z1:442:ASN:HD21	1.68	0.92
27:Z2:416:ASP:HB2	27:Z2:569:LYS:CE	1.99	0.92
1:A2:1272:GLY:O	1:A1:723:PHE:HZ	1.47	0.92
9:I1:1667:GLN:HE22	9:I2:1669:ARG:HD3	1.00	0.92
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HZ3	1.66	0.92
20:S1:574:THR:CB	21:T1:88:ARG:NH1	2.33	0.92
22:U1:212:LYS:CE	25:X1:768:GLU:HG2	1.99	0.92
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CD2	2.03	0.92
27:Z1:135:LYS:CE	27:Z1:218:LEU:CD2	2.47	0.92
27:Z1:352:GLU:O	27:Z1:352:GLU:HG3	1.66	0.92
27:Z2:230:SER:CB	27:Z2:253:LEU:HD23	1.99	0.92
29:b1:10:ILE:HG22	29:b1:12:LYS:CE	1.97	0.92
29:b2:55:ASN:CB	29:b2:56:THR:HG23	1.98	0.92
1:A2:1226:LEU:HD21	1:A1:647:GLU:H	0.77	0.92
9:I1:911:PRO:CD	15:O1:202:LEU:HD12	2.00	0.92
17:Q1:756:PHE:CZ	17:Q1:760:ILE:HD12	2.04	0.92
17:Q2:969:VAL:HG11	17:Q2:1009:LEU:CD1	1.99	0.92
18:R1:684:ILE:CD1	18:R1:722:ALA:HA	1.99	0.92
25:X1:687:GLU:OE2	27:Z1:573:LYS:HD3	1.69	0.92
25:X2:811:SER:OG	27:Z2:701:LEU:HD13	1.68	0.92
26:Y1:1449:ILE:HG22	26:Y1:1453:PHE:CE2	2.03	0.92
27:Z2:358:ARG:NH1	27:Z2:382:GLN:HE22	1.66	0.92
9:I1:917:TYR:H	15:O1:195:LEU:HD12	1.35	0.92
9:I1:961:ARG:CD	15:O1:186:PHE:C	2.41	0.92
9:I2:1030:ARG:NH2	13:M3:607:SER:HB2	1.85	0.92
9:I2:1103:LEU:CD2	15:O3:275:LEU:CD2	2.47	0.92
13:M3:469:GLU:OE2	13:M4:533:GLN:HA	1.68	0.92
18:R1:530:ILE:HA	18:R1:549:PHE:CE2	2.04	0.92
20:S1:568:ALA:O	21:T1:86:ASN:ND2	2.03	0.92
25:X1:668:VAL:HG13	26:Y1:1271:ASN:HD21	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:750:THR:CG2	25:X1:754:ASN:HD21	1.83	0.92
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HD23	2.04	0.92
27:Z2:289:PRO:O	27:Z2:289:PRO:HD2	1.70	0.92
27:Z2:363:LEU:CG	27:Z2:373:LEU:HD21	2.00	0.92
27:Z2:389:TRP:HE3	27:Z2:393:LEU:CD1	1.76	0.92
6:F1:141:ALA:CA	9:I1:1390:PHE:CG	2.52	0.92
9:I1:977:ASN:CB	15:O1:175:SER:N	2.30	0.92
9:I1:1048:GLU:HB3	14:N1:293:LYS:CE	2.00	0.92
9:I2:976:ARG:HD3	14:N3:293:LYS:O	1.67	0.92
17:Q2:509:ALA:CA	17:Q2:516:LEU:HD11	1.99	0.92
22:U1:289:GLN:CG	25:X1:794:ILE:HG23	1.98	0.92
24:W1:534:ASP:OD2	24:W1:745:GLU:O	1.86	0.92
25:X1:714:PHE:CZ	26:Y1:1316:GLU:CG	2.52	0.92
25:X1:742:GLN:CD	25:X1:743:GLN:HG3	1.95	0.92
25:X1:811:SER:C	26:Y1:1402:LEU:HD11	1.94	0.92
25:X2:778:LYS:HE2	25:X2:794:ILE:HG13	1.52	0.92
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:HD23	1.10	0.92
27:Z1:137:TYR:HB3	27:Z1:217:LEU:HD23	1.51	0.92
27:Z2:69:PHE:CA	27:Z2:84:ASN:ND2	1.86	0.92
1:A2:1222:ALA:O	1:A1:595:GLU:O	1.88	0.92
1:A3:1084:ARG:CA	4:D3:1095:ARG:NE	2.32	0.92
9:I1:961:ARG:CD	15:O1:186:PHE:O	2.17	0.92
9:I2:906:GLY:C	13:M3:573:ARG:HD2	1.93	0.92
9:I2:1308:THR:CB	14:N3:413:VAL:CG1	2.48	0.92
17:Q1:386:PHE:HZ	17:Q1:563:PHE:CA	1.82	0.92
17:Q1:509:ALA:CA	17:Q1:516:LEU:HD11	1.99	0.92
17:Q1:982:GLU:HB3	17:Q1:1104:ILE:HD11	1.52	0.92
17:Q1:982:GLU:HB3	17:Q1:1104:ILE:CD1	2.00	0.92
24:W1:530:LYS:HG3	24:W1:745:GLU:C	1.94	0.92
25:X2:662:ILE:HD13	27:Z1:541:LYS:NZ	1.84	0.92
25:X2:690:GLN:CG	27:Z2:7:LEU:HB3	1.99	0.92
26:Y1:1316:GLU:CG	27:Z1:609:LEU:CD2	2.47	0.92
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:CG1	1.78	0.92
1:A2:1226:LEU:CD2	1:A1:647:GLU:HG2	2.00	0.92
6:F1:166:THR:CB	9:I1:1331:LYS:NZ	2.33	0.92
9:I2:887:GLN:NE2	13:M3:597:LYS:HZ2	1.61	0.92
9:I2:925:LEU:HG	15:O3:186:PHE:CB	1.99	0.92
19:R2:580:PHE:CZ	19:R2:584:ILE:HG12	2.05	0.92
25:X1:795:LYS:HE2	27:Z1:665:ILE:C	1.94	0.92
25:X2:668:VAL:HG13	26:Y2:1271:ASN:HD21	1.34	0.92
25:X2:695:GLN:HB2	27:Z2:48:VAL:CG1	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:714:PHE:HZ	26:Y2:1316:GLU:CG	1.82	0.92
25:X2:717:LYS:HE2	26:Y2:1320:LEU:HD12	0.94	0.92
25:X2:726:VAL:HG12	25:X2:727:SER:N	1.85	0.92
27:Z1:124:LYS:CD	27:Z1:147:GLU:OE1	2.17	0.92
27:Z1:358:ARG:NH2	27:Z1:382:GLN:CD	2.28	0.92
27:Z1:361:LYS:NZ	27:Z1:378:ASP:CB	2.32	0.92
27:Z1:383:GLN:CG	27:Z1:417:ILE:HG21	2.00	0.92
27:Z2:166:LEU:HD13	27:Z2:208:PHE:CE2	2.05	0.92
29:b1:46:LYS:HE3	29:b1:59:VAL:HG22	1.51	0.92
1:A4:624:ASP:C	4:D3:980:ARG:HD2	1.92	0.92
6:F2:176:ARG:NH2	9:I2:1207:PRO:HD3	1.85	0.92
7:G1:251:TYR:CE2	15:O2:244:GLU:HA	2.05	0.92
9:I2:806:VAL:HG21	15:O3:247:TRP:HB3	1.52	0.92
9:I2:1109:LEU:HB2	15:O3:284:LYS:CD	2.00	0.92
17:Q1:714:TYR:HD2	17:Q1:717:CYS:HG	1.10	0.92
17:Q2:615:GLU:HG3	17:Q2:645:ILE:HG21	1.51	0.92
17:Q2:714:TYR:HD2	17:Q2:717:CYS:HG	1.14	0.92
17:Q2:982:GLU:HB3	17:Q2:1104:ILE:CD1	2.00	0.92
19:R2:527:VAL:HB	19:R2:580:PHE:CE2	2.05	0.92
19:R2:530:ILE:HA	19:R2:549:PHE:CE2	2.04	0.92
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD12	0.94	0.92
27:Z1:35:ILE:HG13	27:Z1:46:TYR:CZ	2.03	0.92
27:Z1:216:LEU:CD2	27:Z1:272:ILE:HD11	1.83	0.92
27:Z1:579:ARG:O	27:Z1:581:PHE:O	1.87	0.92
29:b2:29:LYS:HE2	29:b2:81:ILE:HG12	1.48	0.92
1:A3:1083:SER:O	4:D3:1096:TYR:CD1	2.23	0.92
9:I1:838:GLU:CG	15:O1:198:ARG:HE	1.63	0.92
9:I2:963:LEU:H	16:P3:151:LYS:HD3	1.35	0.92
9:I2:1051:LYS:HD2	14:N3:289:PHE:CB	2.00	0.92
9:I2:1254:VAL:N	14:N3:411:GLN:N	2.17	0.92
17:Q1:961:SER:HB2	17:Q1:991:LEU:CD2	2.00	0.92
17:Q2:711:ASN:HA	17:Q2:715:LEU:CD1	1.99	0.92
18:R1:631:ILE:HD13	18:R1:632:LYS:HG3	1.51	0.92
22:U1:248:LYS:CE	25:X1:805:ARG:O	2.15	0.92
22:U1:296:LEU:CA	27:Z1:657:TYR:H	1.82	0.92
22:U1:340:LYS:CD	27:Z1:646:HIS:CE1	2.52	0.92
25:X1:814:LEU:HD23	25:X1:817:GLN:OE1	1.70	0.92
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CG	2.05	0.92
27:Z1:534:GLU:CB	27:Z2:545:LEU:HA	1.99	0.92
27:Z1:641:PHE:CZ	27:Z1:645:VAL:CG2	2.53	0.92
1:A2:1221:ILE:C	1:A1:599:ARG:HB3	1.94	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:135:VAL:CG1	9:I1:1336:MET:CB	2.18	0.91
6:F1:142:ALA:CB	9:I1:1394:ASN:C	2.37	0.91
6:F1:142:ALA:CB	9:I1:1395:LEU:HG	2.00	0.91
9:I1:1667:GLN:HE21	9:I2:1669:ARG:CD	1.61	0.91
9:I1:1667:GLN:CG	9:I2:1669:ARG:CA	2.46	0.91
9:I2:906:GLY:HA3	13:M3:573:ARG:NE	1.85	0.91
17:Q1:969:VAL:HG11	17:Q1:1009:LEU:CD1	1.99	0.91
17:Q2:961:SER:HB2	17:Q2:991:LEU:CD2	2.00	0.91
22:U1:204:VAL:O	27:Z1:668:GLU:CD	2.13	0.91
25:X2:695:GLN:HE22	27:Z2:429:ILE:CG2	1.80	0.91
26:Y1:1122:ILE:HG12	29:b1:67:SER:HG	1.21	0.91
26:Y1:1456:LEU:HB2	26:Y1:1456:LEU:O	1.70	0.91
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:N	2.38	0.91
26:Y2:1448:GLN:O	26:Y2:1452:PHE:HD2	1.53	0.91
27:Z1:166:LEU:HD13	27:Z1:208:PHE:CE2	2.05	0.91
27:Z1:209:TYR:CD1	27:Z1:210:PRO:HD3	2.06	0.91
27:Z1:363:LEU:CG	27:Z1:373:LEU:HD21	2.00	0.91
1:A4:1053:ARG:CD	4:D3:671:ARG:HH21	1.82	0.91
6:F1:153:LEU:O	9:I1:1395:LEU:CD1	2.18	0.91
9:I2:979:ALA:N	15:O3:178:ASP:CG	2.24	0.91
9:I2:1049:LEU:CD1	16:P3:142:LEU:N	2.33	0.91
17:Q1:451:ASN:H	17:Q1:548:PRO:CB	1.83	0.91
17:Q1:615:GLU:HG3	17:Q1:645:ILE:HG21	1.51	0.91
18:R1:506:ILE:HG13	18:R1:507:ASP:H	1.32	0.91
25:X1:811:SER:OG	27:Z1:701:LEU:HD13	1.68	0.91
25:X2:765:LEU:CD2	27:Z2:652:GLN:CD	2.16	0.91
26:Y1:1409:LEU:CA	27:Z1:711:LYS:HZ3	1.83	0.91
27:Z1:393:LEU:CD2	27:Z1:405:LEU:HD22	1.91	0.91
27:Z2:131:LEU:CD1	27:Z2:187:PHE:HE2	1.78	0.91
27:Z2:303:ALA:HB1	27:Z2:363:LEU:CD2	1.95	0.91
27:Z2:358:ARG:NH2	27:Z2:382:GLN:CD	2.28	0.91
27:Z2:522:GLU:CD	27:Z2:524:GLN:H	1.69	0.91
1:A2:1280:GLN:C	1:A1:635:ARG:HD2	1.95	0.91
7:G1:255:LEU:HB2	15:O2:246:LEU:N	1.76	0.91
9:I1:905:ALA:HB2	13:M1:573:ARG:CZ	2.00	0.91
9:I2:1162:TYR:N	15:O3:266:GLN:NE2	2.04	0.91
17:Q1:69:VAL:HG12	17:Q1:477:PHE:HD1	1.33	0.91
22:U1:191:ALA:C	27:Z1:664:ARG:NH1	2.29	0.91
25:X1:658:TYR:CE2	25:X1:662:ILE:HD11	2.05	0.91
25:X1:789:GLU:HG3	25:X1:793:LEU:HD13	1.49	0.91
25:X1:815:GLU:HG3	26:Y1:1402:LEU:HD11	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:648:LEU:HG	27:Z2:535:PHE:CZ	2.05	0.91
25:X2:676:ILE:HD11	26:Y2:1274:ASN:CG	1.95	0.91
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:HZ2	1.35	0.91
27:Z1:230:SER:CB	27:Z1:253:LEU:HD23	1.99	0.91
27:Z1:289:PRO:O	27:Z1:289:PRO:HD2	1.70	0.91
27:Z2:209:TYR:CG	27:Z2:210:PRO:HD3	2.04	0.91
27:Z2:396:CYS:SG	27:Z2:404:PRO:HG2	2.10	0.91
1:A4:442:ARG:HE	4:D3:1021:ASP:HB3	1.36	0.91
6:F1:1265:GLN:CB	15:O2:252:VAL:CG2	2.43	0.91
7:G1:254:ASN:ND2	15:O2:246:LEU:O	1.81	0.91
9:I2:888:GLU:CD	13:M3:593:ALA:O	2.07	0.91
17:Q1:276:LEU:HB2	17:Q1:280:THR:HG23	1.51	0.91
17:Q1:929:LEU:CD1	18:R1:695:ALA:HB2	2.01	0.91
17:Q2:345:GLN:HG3	17:Q2:346:LEU:CD2	2.00	0.91
17:Q2:753:PHE:CE2	17:Q2:757:LYS:HD3	2.05	0.91
18:R1:580:PHE:CZ	18:R1:584:ILE:HG12	2.05	0.91
25:X2:778:LYS:HA	25:X2:794:ILE:H	1.30	0.91
26:Y1:1345:LEU:HD23	26:Y1:1348:LYS:CD	2.01	0.91
27:Z1:12:ILE:HG23	27:Z1:37:PHE:CD2	2.03	0.91
27:Z1:94:PRO:HB3	27:Z1:109:PHE:CZ	1.92	0.91
27:Z2:188:SER:HB2	27:Z2:195:TYR:CD2	2.05	0.91
29:b2:54:GLY:C	29:b2:55:ASN:CA	2.43	0.91
1:A1:827:ILE:HG23	1:A1:849:SER:C	1.90	0.91
1:A2:1222:ALA:CA	1:A1:600:LYS:N	2.26	0.91
9:I2:1049:LEU:HD11	16:P3:142:LEU:HA	1.49	0.91
17:Q1:753:PHE:CE2	17:Q1:757:LYS:HD3	2.05	0.91
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CD1	2.00	0.91
25:X2:814:LEU:HD23	25:X2:817:GLN:OE1	1.71	0.91
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CD1	2.00	0.91
26:Y2:1385:LEU:HD12	27:Z2:683:LEU:CD2	2.00	0.91
27:Z1:338:ASP:O	27:Z1:338:ASP:OD1	1.88	0.91
27:Z1:429:ILE:HG22	27:Z1:431:TRP:CD1	2.05	0.91
27:Z2:129:LYS:HE2	27:Z2:185:LEU:HG	0.91	0.91
27:Z2:145:LEU:HD11	27:Z2:182:ILE:HG21	1.50	0.91
27:Z2:252:GLN:NE2	27:Z2:335:MET:H	1.51	0.91
27:Z2:422:ARG:NE	27:Z2:442:ASN:HD21	1.68	0.91
27:Z2:448:GLN:CB	27:Z2:573:LYS:HZ2	1.84	0.91
9:I2:960:SER:OG	16:P3:154:ALA:HB3	1.68	0.91
9:I2:964:SER:N	16:P3:152:LYS:H	1.68	0.91
22:U1:243:PHE:HD2	27:Z1:657:TYR:HA	1.32	0.91
25:X1:648:LEU:HG	27:Z1:535:PHE:CZ	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:793:LEU:HD21	27:Z1:680:TRP:HD1	1.32	0.91
26:Y2:1334:LEU:CB	27:Z1:105:ILE:O	2.18	0.91
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:H	1.25	0.91
27:Z1:396:CYS:SG	27:Z1:404:PRO:HG2	2.10	0.91
27:Z2:135:LYS:CE	27:Z2:218:LEU:CD2	2.48	0.91
27:Z2:145:LEU:HD11	27:Z2:149:ASP:OD1	1.71	0.91
27:Z2:338:ASP:O	27:Z2:338:ASP:OD1	1.88	0.91
1:A2:1331:GLU:CA	4:D1:903:ILE:HG13	2.00	0.91
1:A3:1088:ASN:C	4:D3:1101:HIS:HE1	1.79	0.91
9:I1:921:GLU:HB2	15:O1:187:ASN:HA	1.51	0.91
9:I2:895:ARG:HH22	13:M3:589:GLY:HA3	1.33	0.91
17:Q1:276:LEU:HD11	17:Q1:282:LEU:HD21	1.52	0.91
17:Q1:703:THR:HG21	17:Q1:709:PHE:CD1	2.06	0.91
17:Q1:1012:GLU:HG2	17:Q1:1057:LEU:CD2	2.01	0.91
17:Q2:572:ALA:HA	17:Q2:577:TYR:HE1	1.33	0.91
17:Q2:934:VAL:CG1	17:Q2:936:LYS:HG3	2.01	0.91
22:U1:289:GLN:OE1	25:X1:794:ILE:HG23	1.70	0.91
25:X1:683:ALA:HB2	26:Y1:1281:MET:HE3	1.51	0.91
25:X1:714:PHE:HZ	26:Y1:1316:GLU:CG	1.82	0.91
25:X2:638:ASP:H	27:Z2:528:PHE:HZ	1.18	0.91
26:Y1:1382:VAL:O	26:Y1:1384:LYS:HG3	1.71	0.91
26:Y1:1435:LYS:HZ3	27:Z1:225:LEU:HD23	1.08	0.91
26:Y1:1448:GLN:O	26:Y1:1452:PHE:HD2	1.53	0.91
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HG	2.05	0.91
26:Y2:1430:ASP:C	26:Y2:1434:PHE:CD2	2.47	0.91
27:Z1:145:LEU:HD11	27:Z1:182:ILE:HG21	1.50	0.91
27:Z1:263:TRP:HA	27:Z1:270:VAL:HG22	1.53	0.91
27:Z2:41:ASN:HD21	27:Z2:60:SER:HA	1.22	0.91
27:Z2:137:TYR:HB3	27:Z2:217:LEU:CD2	2.01	0.91
1:A2:1331:GLU:HB3	4:D1:899:THR:CA	1.99	0.91
9:I1:908:ARG:HD3	13:M1:552:TYR:H	1.28	0.91
9:I2:1254:VAL:CA	14:N3:408:MET:C	2.44	0.91
17:Q1:928:LYS:CE	18:R1:695:ALA:HB1	2.00	0.91
17:Q1:1070:LEU:HB2	17:Q1:1071:PRO:HD3	1.51	0.91
17:Q2:276:LEU:HD11	17:Q2:282:LEU:HD21	1.53	0.91
18:R1:527:VAL:HB	18:R1:580:PHE:CE2	2.05	0.91
25:X1:637:LEU:N	26:Y1:1218:PHE:HD2	1.56	0.91
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CG	2.05	0.91
25:X1:752:ASP:CG	26:Y1:1345:LEU:HD11	1.96	0.91
25:X2:692:LYS:HD2	27:Z2:10:LEU:HB2	1.51	0.91
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:CD1	1.72	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1385:LEU:HD12	27:Z1:683:LEU:CD2	2.00	0.91
26:Y2:1118:ALA:HB3	29:b2:71:HIS:CE1	2.05	0.91
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:HA	1.99	0.91
27:Z1:26:ILE:HB	27:Z1:440:MET:CE	1.85	0.91
27:Z1:288:ASN:O	27:Z1:290:PHE:N	2.04	0.91
27:Z2:10:LEU:HD21	27:Z2:431:TRP:CZ3	2.05	0.91
29:b2:72:GLU:HG3	29:b2:75:HIS:NE2	1.86	0.91
1:A2:1331:GLU:CB	4:D1:899:THR:CA	2.49	0.91
6:F2:139:GLN:HB3	9:I2:1340:LEU:CD2	2.01	0.91
9:I2:806:VAL:CG1	15:O3:247:TRP:CA	2.49	0.91
9:I2:978:LYS:HD2	15:O3:179:LEU:N	1.84	0.91
17:Q1:934:VAL:CG1	17:Q1:936:LYS:HG3	2.00	0.91
17:Q2:611:ASN:HA	17:Q2:614:TRP:CE3	2.06	0.91
18:R1:633:THR:HG23	18:R1:636:VAL:HG21	1.52	0.91
22:U1:243:PHE:HA	27:Z1:657:TYR:CB	1.99	0.91
22:U1:288:LEU:N	25:X1:798:ASN:HB2	1.84	0.91
22:U1:289:GLN:CG	25:X1:794:ILE:CB	2.49	0.91
25:X1:799:SER:CB	26:Y1:1372:LYS:CA	2.48	0.91
26:Y1:1389:SER:CB	26:Y2:1357:ASN:CG	2.44	0.91
26:Y2:1337:HIS:ND1	27:Z1:111:ILE:HD13	1.85	0.91
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HD23	2.04	0.91
1:A3:1200:ARG:CB	1:A4:591:ASP:OD1	2.19	0.91
6:F1:1267:ARG:HG2	15:O2:255:GLY:CA	2.00	0.91
9:I1:966:TRP:HA	15:O1:181:HIS:CB	1.78	0.91
9:I1:1606:GLU:CD	9:I2:1669:ARG:CZ	2.44	0.91
9:I2:914:ASN:OD1	15:O3:191:ARG:NH2	2.04	0.91
9:I2:1103:LEU:CA	13:M3:611:LYS:NZ	2.19	0.91
10:J1:251:TYR:HB3	15:O1:273:ASP:OD1	1.70	0.91
17:Q1:345:GLN:HG3	17:Q1:346:LEU:CD2	2.00	0.91
17:Q1:440:ARG:HD2	17:Q1:514:PHE:HE2	1.31	0.91
17:Q1:711:ASN:HA	17:Q1:715:LEU:CD1	1.98	0.91
26:Y1:1392:ARG:NH1	27:Z1:690:ASP:CA	2.33	0.91
27:Z1:129:LYS:HE2	27:Z1:185:LEU:HG	0.91	0.91
27:Z1:131:LEU:HD13	27:Z1:187:PHE:HE2	1.19	0.91
27:Z1:230:SER:O	27:Z1:253:LEU:HD21	1.72	0.91
27:Z2:137:TYR:HB3	27:Z2:217:LEU:HD23	1.50	0.91
9:I1:1051:LYS:NZ	14:N1:290:VAL:CB	2.35	0.90
10:J2:247:ASP:CG	15:O3:279:ILE:CD1	2.44	0.90
17:Q1:1066:PHE:CB	17:Q1:1144:LYS:HE3	1.99	0.90
17:Q2:725:PHE:HD1	17:Q2:740:GLU:HG2	1.36	0.90
26:Y1:1295:VAL:HA	27:Z1:588:TRP:HZ3	1.13	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1316:GLU:CG	27:Z2:609:LEU:CD2	2.47	0.90
27:Z1:10:LEU:HD21	27:Z1:431:TRP:CZ3	2.05	0.90
27:Z1:429:ILE:HG21	27:Z1:431:TRP:HE1	1.16	0.90
27:Z2:361:LYS:NZ	27:Z2:378:ASP:CB	2.32	0.90
9:I2:1048:GLU:C	16:P3:141:ALA:HB2	1.95	0.90
9:I2:1099:ARG:HG3	15:O3:268:GLY:HA2	1.50	0.90
9:I2:1308:THR:HG22	14:N3:414:ALA:HA	1.49	0.90
17:Q2:703:THR:HG21	17:Q2:709:PHE:CD1	2.05	0.90
22:U1:209:PRO:CD	27:Z1:660:SER:C	2.40	0.90
25:X2:687:GLU:OE2	27:Z2:573:LYS:HD3	1.69	0.90
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:O	1.71	0.90
26:Y2:1409:LEU:CA	27:Z2:711:LYS:HZ3	1.83	0.90
27:Z1:131:LEU:CD1	27:Z1:187:PHE:HE2	1.78	0.90
27:Z2:448:GLN:OE1	27:Z2:573:LYS:NZ	2.03	0.90
1:A3:1200:ARG:HB2	1:A4:591:ASP:OD1	1.71	0.90
9:I2:895:ARG:H	13:M3:587:GLU:HG3	1.36	0.90
9:I2:896:PRO:CG	13:M3:588:MET:CE	2.42	0.90
9:I2:900:ARG:H	13:M3:584:GLN:CD	1.79	0.90
9:I2:964:SER:OG	16:P3:153:GLN:N	2.03	0.90
17:Q1:104:LYS:HD2	17:Q1:120:ILE:HD11	1.53	0.90
17:Q1:510:ASN:HB3	17:Q1:511:PRO:HD3	1.54	0.90
25:X1:676:ILE:HD11	26:Y1:1274:ASN:CG	1.95	0.90
25:X2:699:TYR:OH	27:Z2:34:ARG:NH1	2.02	0.90
26:Y1:1443:MET:CE	27:Z1:332:GLU:OE1	0.61	0.90
26:Y2:1392:ARG:NH1	27:Z2:690:ASP:CA	2.33	0.90
27:Z1:137:TYR:CD1	27:Z1:215:VAL:CG1	2.46	0.90
27:Z1:188:SER:HB2	27:Z1:195:TYR:CD2	2.05	0.90
27:Z1:209:TYR:HE1	27:Z1:335:MET:HB3	1.15	0.90
27:Z1:289:PRO:CD	27:Z1:289:PRO:O	2.20	0.90
1:A3:1222:ALA:HA	1:A4:598:VAL:HB	1.52	0.90
6:F1:159:ALA:HA	9:I1:1335:LYS:HG2	1.51	0.90
6:F1:1052:CYS:O	9:I1:1388:GLU:OE2	1.89	0.90
9:I1:896:PRO:C	13:M1:580:LYS:HA	1.80	0.90
9:I1:962:ILE:HD12	15:O1:184:ARG:N	1.80	0.90
9:I1:1050:SER:C	14:N1:293:LYS:CG	2.45	0.90
9:I2:896:PRO:HB3	13:M3:585:LEU:HD23	1.52	0.90
9:I2:963:LEU:C	16:P3:152:LYS:HG3	1.76	0.90
9:I2:978:LYS:HE3	15:O3:178:ASP:O	1.71	0.90
9:I2:1035:GLN:HB3	16:P3:147:LEU:CB	2.00	0.90
9:I2:1099:ARG:HG2	15:O3:268:GLY:HA2	1.52	0.90
9:I2:1157:LEU:CD2	15:O3:263:GLN:HA	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1171:GLU:OE1	14:N3:427:VAL:HG11	1.69	0.90
17:Q1:332:LYS:HE2	17:Q1:352:TYR:CE2	2.07	0.90
17:Q1:384:ASN:CA	17:Q1:509:ALA:N	2.34	0.90
25:X2:658:TYR:CE2	25:X2:662:ILE:HD11	2.05	0.90
25:X2:752:ASP:CG	26:Y2:1345:LEU:HD11	1.95	0.90
26:Y2:1212:ARG:CD	26:Y2:1213:LEU:HD23	2.01	0.90
27:Z1:69:PHE:CA	27:Z1:84:ASN:ND2	1.86	0.90
27:Z2:34:ARG:CG	27:Z2:95:TRP:CH2	2.52	0.90
27:Z2:35:ILE:HB	27:Z2:46:TYR:CZ	2.06	0.90
29:b1:78:TYR:CD1	29:b1:87:LEU:HD21	2.06	0.90
6:F1:158:PRO:HG2	9:I1:1340:LEU:H	1.30	0.90
9:I2:1108:PRO:C	15:O3:281:ALA:CB	2.45	0.90
17:Q1:611:ASN:HA	17:Q1:614:TRP:CE3	2.06	0.90
24:W1:534:ASP:OD2	24:W1:746:CYS:HA	1.71	0.90
25:X2:683:ALA:HB2	26:Y2:1281:MET:HE3	1.51	0.90
26:Y1:1407:SER:HA	26:Y1:1410:GLN:HG2	1.51	0.90
26:Y2:1267:GLU:CA	26:Y2:1267:GLU:N	2.33	0.90
26:Y2:1317:TYR:CE1	27:Z1:48:VAL:O	2.23	0.90
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:HZ3	0.94	0.90
26:Y2:1443:MET:CE	27:Z2:332:GLU:OE1	0.61	0.90
27:Z1:35:ILE:HB	27:Z1:46:TYR:CZ	2.05	0.90
27:Z1:145:LEU:HD11	27:Z1:149:ASP:OD1	1.71	0.90
7:G1:249:ASP:C	15:O2:247:TRP:HE1	1.76	0.90
9:I1:754:ARG:H	13:M1:556:MET:HE2	1.36	0.90
9:I1:910:LYS:NZ	13:M1:546:ARG:H	1.70	0.90
9:I2:806:VAL:HG11	15:O3:247:TRP:HB3	1.36	0.90
9:I2:919:ALA:CB	16:P3:157:GLU:CD	2.33	0.90
17:Q2:510:ASN:HB3	17:Q2:511:PRO:HD3	1.54	0.90
17:Q2:928:LYS:HE2	19:R2:695:ALA:CA	2.01	0.90
26:Y2:1321:MET:CA	27:Z1:51:ASP:N	2.35	0.90
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HD2	1.98	0.90
27:Z2:137:TYR:CD1	27:Z2:215:VAL:CG1	2.46	0.90
27:Z2:209:TYR:HE1	27:Z2:335:MET:HB3	1.15	0.90
29:b2:55:ASN:HB2	29:b2:56:THR:HG23	1.53	0.90
9:I2:810:GLU:H	15:O3:244:GLU:HB2	1.33	0.90
9:I2:911:PRO:HB3	15:O3:197:ARG:CD	2.01	0.90
9:I2:1162:TYR:CB	15:O3:266:GLN:HE21	1.82	0.90
17:Q1:384:ASN:HB3	17:Q1:509:ALA:CA	2.00	0.90
17:Q2:104:LYS:HD2	17:Q2:120:ILE:HD11	1.53	0.90
17:Q2:1070:LEU:HB2	17:Q2:1071:PRO:HD3	1.51	0.90
18:R1:436:LEU:HD23	18:R1:448:ILE:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:619:LYS:HE3	19:R2:623:PHE:HE2	1.37	0.90
25:X2:750:THR:CG2	25:X2:754:ASN:HD21	1.83	0.90
26:Y1:1402:LEU:HD23	26:Y1:1405:GLN:OE1	1.71	0.90
26:Y2:1368:LEU:HB2	26:Y2:1382:VAL:C	1.97	0.90
27:Z1:137:TYR:HB3	27:Z1:217:LEU:CD2	2.01	0.90
27:Z1:149:ASP:CG	27:Z1:182:ILE:HB	1.97	0.90
1:A2:1333:ARG:C	4:D1:906:ARG:CZ	2.25	0.90
1:A3:1271:ILE:CG1	1:A4:730:THR:CG2	2.44	0.90
1:A3:1331:GLU:HG3	4:D3:873:GLN:C	1.96	0.90
4:D1:1003:GLU:HA	1:A1:172:PRO:HB2	1.53	0.90
6:F2:1267:ARG:HH12	15:O4:262:ASP:CA	1.85	0.90
9:I1:1315:GLN:HB2	15:O1:266:GLN:C	1.96	0.90
9:I1:1357:LYS:HZ1	15:O1:263:GLN:CA	1.84	0.90
25:X1:815:GLU:CG	26:Y1:1402:LEU:HG	2.01	0.90
25:X2:815:GLU:CG	26:Y2:1402:LEU:HG	2.01	0.90
26:Y2:1345:LEU:HD23	26:Y2:1348:LYS:CD	2.01	0.90
27:Z1:252:GLN:HB3	27:Z1:335:MET:HG2	0.91	0.90
27:Z1:276:TYR:O	27:Z1:337:TRP:NE1	2.05	0.90
27:Z2:641:PHE:CZ	27:Z2:645:VAL:CG2	2.54	0.90
7:G2:254:ASN:HD22	15:O4:256:TYR:HB2	0.73	0.90
9:I2:968:PRO:CG	14:N3:300:ALA:CA	2.40	0.90
17:Q1:922:LEU:CD2	18:R1:688:LEU:CD2	2.50	0.90
25:X2:695:GLN:CG	27:Z2:431:TRP:HA	2.01	0.90
27:Z1:289:PRO:CD	27:Z1:350:LEU:HB3	2.02	0.90
27:Z2:7:LEU:CD1	27:Z2:581:PHE:HE1	1.85	0.90
1:A3:1083:SER:O	4:D3:1096:TYR:CZ	2.00	0.90
9:I2:891:LEU:N	13:M3:591:ASP:N	2.16	0.90
22:U1:243:PHE:CB	27:Z1:657:TYR:HA	2.00	0.90
25:X2:753:GLU:O	25:X2:756:ASN:ND2	2.05	0.90
26:Y2:1402:LEU:HD23	26:Y2:1405:GLN:OE1	1.71	0.90
27:Z1:292:GLY:O	27:Z1:295:TYR:HD1	1.51	0.90
27:Z1:389:TRP:HE3	27:Z1:393:LEU:CD1	1.76	0.90
29:b1:38:GLU:OE1	29:b1:61:VAL:O	1.90	0.90
1:A2:1200:ARG:CB	1:A1:595:GLU:CB	2.49	0.89
1:A3:1332:ARG:CZ	4:D3:902:SER:HB2	2.02	0.89
9:I1:915:ALA:CB	15:O1:196:SER:HA	2.01	0.89
9:I1:977:ASN:HB2	15:O1:174:LEU:CA	2.02	0.89
9:I1:1667:GLN:HG2	9:I2:1669:ARG:C	1.97	0.89
9:I2:1305:LEU:CG	15:O3:260:LEU:HD12	2.02	0.89
17:Q2:139:ILE:HB	17:Q2:211:MET:HE1	1.54	0.89
17:Q2:824:ASN:HD21	17:Q2:833:GLU:HB2	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:241:ARG:NH1	27:Z1:659:LYS:HZ2	1.68	0.89
22:U1:296:LEU:HA	27:Z1:657:TYR:H	1.29	0.89
25:X1:655:PHE:HZ	27:Z1:545:LEU:HB3	1.13	0.89
25:X1:753:GLU:O	25:X1:756:ASN:ND2	2.04	0.89
25:X2:702:ARG:HD2	27:Z2:49:LEU:HD21	1.51	0.89
26:Y1:1122:ILE:O	26:Y1:1122:ILE:HG13	1.69	0.89
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CD	2.34	0.89
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:CB	1.71	0.89
26:Y2:1334:LEU:HB3	27:Z1:108:ALA:HB3	1.47	0.89
27:Z1:522:GLU:CB	27:Z1:523:ASN:CA	2.26	0.89
27:Z2:201:GLU:O	27:Z2:201:GLU:HG2	1.08	0.89
27:Z2:276:TYR:O	27:Z2:337:TRP:NE1	2.05	0.89
1:A2:1221:ILE:HG12	1:A1:596:ARG:CD	2.01	0.89
1:A3:1070:ASP:CG	9:I2:1238:LYS:CB	2.31	0.89
9:I1:980:ILE:HD13	15:O1:175:SER:H	0.75	0.89
9:I1:1246:ILE:HG13	15:O1:255:GLY:HA3	1.53	0.89
9:I2:920:PHE:N	16:P3:157:GLU:OE1	2.06	0.89
9:I2:1026:TYR:CZ	13:M3:609:GLY:N	2.40	0.89
9:I2:1051:LYS:HD2	14:N3:289:PHE:HD1	1.33	0.89
17:Q2:476:GLN:OE1	17:Q2:514:PHE:CE1	2.23	0.89
25:X2:697:LEU:N	27:Z2:432:ASN:ND2	2.14	0.89
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:CG1	1.78	0.89
26:Y2:1126:LEU:HD23	29:b2:63:LYS:HD2	1.54	0.89
27:Z1:27:PHE:HE2	27:Z1:36:VAL:CG2	1.56	0.89
27:Z2:209:TYR:CD1	27:Z2:210:PRO:HD3	2.06	0.89
27:Z2:241:THR:CG2	27:Z2:246:LYS:HG3	2.00	0.89
27:Z2:282:GLN:CA	27:Z2:283:GLY:N	2.35	0.89
27:Z2:305:ILE:HG21	27:Z2:386:PHE:CZ	2.07	0.89
1:A3:1399:ARG:CD	4:D3:866:PHE:CD1	2.55	0.89
6:F1:163:ASP:N	9:I1:1331:LYS:CB	2.31	0.89
6:F2:137:ASN:O	9:I2:1391:THR:CG2	2.20	0.89
9:I1:976:ARG:O	15:O1:177:HIS:HB3	1.71	0.89
9:I2:810:GLU:CA	15:O3:241:SER:O	2.08	0.89
17:Q1:381:TYR:O	17:Q1:512:ILE:HG12	1.70	0.89
17:Q2:982:GLU:HB3	17:Q2:1104:ILE:HD11	1.52	0.89
22:U1:185:VAL:H	27:Z1:664:ARG:HH22	1.12	0.89
25:X1:690:GLN:NE2	27:Z1:581:PHE:HE2	1.44	0.89
25:X2:690:GLN:NE2	27:Z2:581:PHE:HE2	1.44	0.89
25:X2:691:ASN:CB	27:Z2:431:TRP:NE1	2.35	0.89
25:X2:815:GLU:HG3	26:Y2:1402:LEU:HD11	1.53	0.89
26:Y2:1320:LEU:HD12	27:Z1:49:LEU:O	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:83:PHE:O	27:Z2:84:ASN:ND2	2.05	0.89
27:Z2:288:ASN:O	27:Z2:290:PHE:N	2.03	0.89
27:Z2:289:PRO:CD	27:Z2:350:LEU:HB3	2.02	0.89
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CD1	2.00	0.89
1:A3:1223:GLU:HG3	1:A4:648:TYR:CD2	2.07	0.89
9:I2:902:GLN:O	13:M3:577:LEU:HG	1.70	0.89
9:I2:1104:LEU:H	13:M3:611:LYS:NZ	1.59	0.89
17:Q2:615:GLU:CG	17:Q2:645:ILE:HG21	2.01	0.89
19:R2:627:THR:HG21	19:R2:663:LEU:CD1	2.03	0.89
25:X1:658:TYR:HD2	27:Z1:549:ILE:CD1	1.84	0.89
25:X1:789:GLU:HG2	27:Z1:680:TRP:NE1	1.85	0.89
26:Y1:1382:VAL:N	26:Y1:1384:LYS:HB2	1.88	0.89
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:HG12	1.25	0.89
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:H	1.27	0.89
27:Z1:83:PHE:O	27:Z1:84:ASN:ND2	2.06	0.89
27:Z1:158:ASN:HB2	27:Z1:161:GLU:CG	2.02	0.89
1:A3:1083:SER:O	4:D3:1096:TYR:CG	2.25	0.89
9:I2:896:PRO:HA	13:M3:584:GLN:HG2	1.54	0.89
9:I2:1254:VAL:HA	14:N3:408:MET:O	1.71	0.89
17:Q2:1012:GLU:HG2	17:Q2:1057:LEU:CD2	2.01	0.89
22:U1:296:LEU:CG	27:Z1:653:GLN:C	2.45	0.89
26:Y2:1212:ARG:HE	26:Y2:1213:LEU:HA	1.37	0.89
27:Z2:149:ASP:CG	27:Z2:182:ILE:HB	1.97	0.89
27:Z2:252:GLN:HB3	27:Z2:335:MET:HG2	0.92	0.89
27:Z2:303:ALA:CB	27:Z2:363:LEU:HD21	2.01	0.89
6:F1:1267:ARG:HG2	15:O2:255:GLY:H	1.28	0.89
9:I2:899:LEU:CD2	13:M3:583:ASP:CB	2.34	0.89
17:Q2:332:LYS:HE2	17:Q2:352:TYR:CE2	2.07	0.89
17:Q2:857:LEU:CD1	17:Q2:915:GLU:O	2.21	0.89
17:Q2:922:LEU:HD21	19:R2:688:LEU:CG	2.02	0.89
18:R1:441:CYS:SG	18:R1:444:ALA:HB3	2.12	0.89
22:U1:192:ILE:HB	27:Z1:664:ARG:HG3	1.55	0.89
26:Y2:1333:ASP:N	27:Z1:94:PRO:HA	1.87	0.89
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CD1	2.00	0.89
27:Z1:381:ILE:HG22	27:Z1:417:ILE:CG1	2.02	0.89
27:Z2:289:PRO:CD	27:Z2:289:PRO:O	2.19	0.89
29:b2:55:ASN:HB2	29:b2:56:THR:CG2	1.92	0.89
1:A4:1053:ARG:NE	4:D3:671:ARG:NH2	2.20	0.89
9:I1:1357:LYS:CE	15:O1:263:GLN:HA	2.03	0.89
9:I2:1030:ARG:N	13:M3:612:PRO:C	2.29	0.89
17:Q1:615:GLU:CG	17:Q1:645:ILE:HG21	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:295:GLU:HB2	27:Z1:657:TYR:CD2	2.08	0.89
24:W1:530:LYS:CB	24:W1:743:ASN:O	2.20	0.89
26:Y1:1277:LYS:CE	27:Z1:570:ILE:HB	2.03	0.89
27:Z1:305:ILE:HG21	27:Z1:386:PHE:CZ	2.08	0.89
27:Z1:389:TRP:HE3	27:Z1:393:LEU:HD12	1.11	0.89
29:b1:10:ILE:CG2	29:b1:12:LYS:CE	2.50	0.89
29:b1:77:VAL:O	29:b1:77:VAL:CG2	2.15	0.89
29:b2:9:PRO:CD	29:b2:29:LYS:HZ1	1.60	0.89
29:b2:10:ILE:O	29:b2:79:PHE:HB2	1.72	0.89
1:A3:1090:SER:C	4:D3:1100:PRO:CG	2.33	0.89
6:F1:138:ILE:CG1	9:I1:1392:VAL:HG23	2.02	0.89
9:I1:922:ASP:HB3	15:O1:191:ARG:CB	2.03	0.89
9:I2:899:LEU:CA	13:M3:580:LYS:O	1.97	0.89
13:M3:469:GLU:OE1	13:M4:536:GLU:CD	2.14	0.89
18:R1:627:THR:HG21	18:R1:663:LEU:CD1	2.03	0.89
22:U1:299:GLU:CB	27:Z1:652:GLN:CB	2.10	0.89
25:X2:790:ASN:HD21	27:Z2:680:TRP:HZ2	1.18	0.89
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:CD	2.50	0.89
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:CG	2.56	0.89
27:Z1:190:ASP:HA	27:Z1:311:GLN:HG3	1.55	0.89
27:Z2:116:ILE:HG12	27:Z2:124:LYS:HB3	1.55	0.89
27:Z2:158:ASN:HB2	27:Z2:161:GLU:CG	2.02	0.89
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HD11	1.52	0.89
1:A2:1331:GLU:CB	4:D1:899:THR:O	2.21	0.89
1:A3:1330:VAL:HG22	4:D3:880:ASP:OD2	1.70	0.89
6:F1:156:LEU:HD12	9:I1:1340:LEU:HD22	1.50	0.89
9:I1:978:LYS:HB2	15:O1:180:ASP:CB	2.01	0.89
9:I1:1606:GLU:CG	9:I2:1669:ARG:NH2	2.21	0.89
17:Q2:752:GLN:HG3	17:Q2:808:TYR:HB2	1.55	0.89
24:W1:523:ASP:CG	24:W1:738:ARG:N	2.24	0.89
25:X1:789:GLU:HG3	27:Z1:680:TRP:NE1	1.87	0.89
26:Y2:1365:ILE:HG23	26:Y2:1386:ALA:HB3	1.55	0.89
26:Y2:1400:LYS:O	26:Y2:1404:GLU:CG	2.21	0.89
27:Z1:137:TYR:HB2	27:Z1:269:LYS:HD2	0.90	0.89
27:Z1:241:THR:CB	27:Z1:246:LYS:CE	2.20	0.89
27:Z1:428:TYR:OH	27:Z1:435:SER:OG	1.77	0.89
27:Z2:123:PRO:C	27:Z2:123:PRO:N	2.30	0.89
27:Z2:416:ASP:CB	27:Z2:569:LYS:NZ	2.36	0.89
1:A2:1204:TRP:CD1	1:A1:599:ARG:HB2	2.06	0.89
9:I1:911:PRO:CD	15:O1:202:LEU:CD1	2.51	0.89
9:I1:926:SER:HA	15:O1:184:ARG:HH11	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1051:LYS:CB	14:N1:293:LYS:HE2	1.88	0.89
9:I2:1098:LEU:HD22	15:O3:269:ILE:HG23	0.91	0.89
14:N3:267:GLU:HB3	14:N4:334:LEU:O	1.03	0.89
17:Q2:928:LYS:CE	19:R2:695:ALA:HB1	2.02	0.89
25:X1:696:SER:O	25:X1:700:ILE:HG12	1.71	0.89
25:X2:774:ASN:ND2	25:X2:798:ASN:OD1	2.06	0.89
26:Y2:1117:TYR:CZ	29:b2:70:THR:C	2.51	0.89
27:Z1:27:PHE:HZ	27:Z1:36:VAL:HG21	1.32	0.89
27:Z1:241:THR:CG2	27:Z1:246:LYS:HG3	1.99	0.89
27:Z1:541:LYS:CG	27:Z2:554:HIS:N	2.36	0.89
27:Z2:55:HIS:CE1	27:Z2:98:SER:CB	2.56	0.89
27:Z2:383:GLN:CD	27:Z2:417:ILE:HG13	1.97	0.89
1:A4:1053:ARG:CD	4:D3:671:ARG:NH2	2.34	0.88
6:F1:267:GLU:OE1	9:I1:1202:VAL:CG1	2.20	0.88
9:I2:809:HIS:HD2	15:O3:243:LEU:C	1.81	0.88
9:I2:925:LEU:HG	15:O3:186:PHE:CG	2.07	0.88
17:Q1:385:THR:HG23	17:Q1:507:ILE:HG23	0.89	0.88
17:Q1:1003:VAL:HG21	17:Q1:1037:LEU:HD13	1.55	0.88
18:R1:619:LYS:HE3	18:R1:623:PHE:HE2	1.36	0.88
26:Y1:1389:SER:HB3	26:Y2:1357:ASN:ND2	1.86	0.88
26:Y2:1407:SER:HA	26:Y2:1410:GLN:HG2	1.51	0.88
27:Z1:24:ARG:CD	27:Z1:441:SER:O	2.21	0.88
27:Z1:137:TYR:CG	27:Z1:215:VAL:HG11	2.07	0.88
6:F1:154:SER:CB	9:I1:1344:GLN:HE21	1.84	0.88
9:I1:909:ARG:C	13:M1:548:LEU:HD22	1.93	0.88
9:I1:921:GLU:CB	15:O1:187:ASN:HA	2.03	0.88
9:I1:1667:GLN:HG3	9:I2:1669:ARG:CA	2.03	0.88
25:X1:665:TRP:CZ3	25:X1:669:LEU:HD11	2.08	0.88
25:X2:696:SER:O	25:X2:700:ILE:HG12	1.71	0.88
25:X2:775:THR:CG2	25:X2:794:ILE:HD13	2.03	0.88
27:Z1:213:PRO:CG	27:Z1:216:LEU:HD23	2.03	0.88
27:Z1:282:GLN:CA	27:Z1:283:GLY:N	2.35	0.88
27:Z2:117:ASP:HB3	27:Z2:124:LYS:NZ	1.69	0.88
29:b2:27:ILE:HG22	29:b2:45:VAL:HG22	1.55	0.88
6:F1:1046:HIS:HD2	9:I1:1390:PHE:CE2	1.91	0.88
9:I1:912:VAL:C	13:M1:542:ASP:OD1	2.16	0.88
9:I1:962:ILE:O	15:O1:182:THR:N	2.00	0.88
9:I2:1254:VAL:CG2	14:N3:408:MET:O	2.21	0.88
17:Q1:382:ARG:HE	17:Q1:510:ASN:HA	1.36	0.88
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CD1	2.03	0.88
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:CD	2.50	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:HG3	1.74	0.88
27:Z1:303:ALA:CB	27:Z1:363:LEU:HD21	2.01	0.88
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CZ	2.27	0.88
1:A2:1281:LEU:HD12	1:A1:635:ARG:NH1	1.86	0.88
1:A2:1399:ARG:HB3	4:D1:872:LEU:HD13	1.53	0.88
1:A3:871:ASN:CB	4:D1:515:ASN:ND2	2.24	0.88
1:A3:1333:ARG:NH2	4:D3:880:ASP:OD1	2.06	0.88
6:F1:176:ARG:NE	9:I1:1201:PHE:CZ	2.15	0.88
6:F1:267:GLU:HG2	11:K1:638:PRO:HD2	1.56	0.88
9:I2:976:ARG:CG	14:N3:297:ALA:HB2	2.02	0.88
9:I2:1049:LEU:HB3	14:N3:293:LYS:HA	0.91	0.88
9:I2:1172:TYR:HB2	15:O3:273:ASP:OD2	1.73	0.88
9:I2:1305:LEU:HB2	15:O3:263:GLN:NE2	1.89	0.88
17:Q2:786:LEU:HD12	17:Q2:811:LEU:HD12	1.56	0.88
25:X2:637:LEU:C	25:X2:641:VAL:CG2	2.46	0.88
27:Z1:125:SER:CB	27:Z1:147:GLU:OE1	2.20	0.88
27:Z2:190:ASP:N	27:Z2:311:GLN:CD	2.30	0.88
27:Z2:213:PRO:CG	27:Z2:216:LEU:HD23	2.03	0.88
27:Z2:335:MET:SD	27:Z2:337:TRP:CZ3	2.67	0.88
1:A2:1331:GLU:CB	4:D1:899:THR:HA	2.03	0.88
1:A4:521:ASN:CG	4:D3:1019:ARG:NH2	2.31	0.88
9:I1:896:PRO:HB3	13:M1:583:ASP:HB3	1.21	0.88
9:I1:911:PRO:C	13:M1:541:LEU:CD2	2.47	0.88
9:I2:914:ASN:HA	15:O3:194:GLU:HA	1.56	0.88
22:U1:291:ASN:C	25:X1:802:ASP:OD1	2.16	0.88
26:Y1:1277:LYS:HZ2	27:Z1:571:ILE:H	1.21	0.88
27:Z1:182:ILE:O	27:Z1:182:ILE:CG2	2.21	0.88
27:Z1:190:ASP:N	27:Z1:311:GLN:CD	2.30	0.88
27:Z2:125:SER:CB	27:Z2:147:GLU:OE1	2.21	0.88
27:Z2:434:GLN:CB	27:Z2:580:LYS:HZ2	1.86	0.88
1:A2:1274:ASP:HA	1:A1:727:ASN:HD21	1.36	0.88
6:F1:158:PRO:HG2	9:I1:1339:LEU:CA	2.03	0.88
9:I2:928:LEU:HD11	15:O3:180:ASP:H	1.09	0.88
9:I2:968:PRO:CB	14:N3:303:SER:CB	2.30	0.88
9:I2:976:ARG:NH1	16:P3:141:ALA:HB1	1.89	0.88
9:I2:1254:VAL:H	14:N3:411:GLN:H	1.11	0.88
17:Q1:316:ILE:CD1	17:Q1:331:LEU:HD21	2.04	0.88
17:Q2:568:LEU:HD22	17:Q2:588:ILE:HD11	1.56	0.88
17:Q2:700:GLU:CB	17:Q2:758:ILE:HG12	2.04	0.88
22:U1:295:GLU:CG	26:Y1:1367:LYS:HD2	2.03	0.88
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:HD22	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:35:ILE:HB	27:Z1:46:TYR:CD2	2.08	0.88
27:Z1:252:GLN:NE2	27:Z1:335:MET:HG2	1.88	0.88
27:Z1:252:GLN:CD	27:Z1:334:SER:OG	2.17	0.88
27:Z1:335:MET:SD	27:Z1:337:TRP:CZ3	2.67	0.88
27:Z1:404:PRO:HD2	27:Z2:262:ASN:CB	2.01	0.88
27:Z1:429:ILE:CG2	27:Z1:431:TRP:CD1	2.57	0.88
27:Z2:230:SER:O	27:Z2:253:LEU:HD21	1.72	0.88
9:I1:841:PHE:CD1	15:O1:191:ARG:NH2	2.41	0.88
9:I1:963:LEU:HD11	16:P1:152:LYS:HD3	1.55	0.88
9:I2:960:SER:HB3	16:P3:154:ALA:N	1.86	0.88
17:Q1:725:PHE:HD1	17:Q1:740:GLU:HG2	1.36	0.88
17:Q2:468:LEU:CD2	17:Q2:474:VAL:HG22	2.03	0.88
25:X1:742:GLN:HG3	25:X1:743:GLN:HG2	0.91	0.88
25:X1:795:LYS:CG	27:Z1:665:ILE:CG2	2.23	0.88
27:Z1:317:VAL:O	27:Z1:324:LEU:HD12	1.74	0.88
27:Z2:192:LEU:CD1	27:Z2:226:ILE:CD1	2.48	0.88
1:A2:1221:ILE:CG1	1:A1:596:ARG:HD2	2.04	0.88
1:A3:1084:ARG:HA	4:D3:1095:ARG:HD2	1.53	0.88
9:I1:754:ARG:CZ	13:M1:552:TYR:CD2	2.53	0.88
9:I1:1051:LYS:NZ	14:N1:290:VAL:HG22	1.82	0.88
9:I2:807:LEU:HD12	15:O3:248:SER:HB3	0.88	0.88
9:I2:1103:LEU:CD1	13:M3:611:LYS:CB	1.86	0.88
17:Q1:468:LEU:CD2	17:Q1:474:VAL:HG22	2.03	0.88
17:Q1:700:GLU:CB	17:Q1:758:ILE:HG12	2.04	0.88
17:Q1:824:ASN:HD21	17:Q1:833:GLU:HB2	1.36	0.88
17:Q2:874:PHE:CE1	19:R2:726:ASN:CG	2.52	0.88
18:R1:433:ALA:HB1	18:R1:453:GLU:HB2	1.54	0.88
19:R2:633:THR:HG23	19:R2:636:VAL:HG21	1.52	0.88
25:X1:700:ILE:CG1	26:Y1:1298:TYR:CE1	2.57	0.88
25:X2:650:GLU:O	25:X2:654:HIS:CE1	2.26	0.88
25:X2:665:TRP:CZ3	25:X2:669:LEU:HD11	2.08	0.88
26:Y1:1400:LYS:O	26:Y1:1404:GLU:CG	2.21	0.88
26:Y2:1332:LYS:CA	27:Z1:109:PHE:HE1	1.84	0.88
27:Z1:201:GLU:O	27:Z1:201:GLU:HG2	1.09	0.88
27:Z1:393:LEU:HD21	27:Z1:405:LEU:CD2	1.92	0.88
27:Z1:541:LYS:CE	27:Z2:553:ILE:CG1	2.42	0.88
27:Z2:252:GLN:CD	27:Z2:334:SER:OG	2.17	0.88
27:Z2:389:TRP:HE3	27:Z2:393:LEU:HD12	1.11	0.88
27:Z2:429:ILE:CG2	27:Z2:431:TRP:CD1	2.57	0.88
29:b1:58:HIS:CE1	29:b2:70:THR:H	1.92	0.88
6:F1:135:VAL:O	9:I1:1392:VAL:HG21	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:142:ALA:HB2	9:I1:1395:LEU:HG	1.54	0.88
9:I1:841:PHE:CD1	15:O1:191:ARG:NE	2.40	0.88
9:I1:911:PRO:CD	15:O1:202:LEU:HG	2.03	0.88
9:I2:809:HIS:NE2	15:O3:243:LEU:HG	1.87	0.88
9:I2:925:LEU:HD11	15:O3:186:PHE:CA	2.03	0.88
10:J1:252:LEU:CD1	15:O1:273:ASP:OD2	2.21	0.88
17:Q2:58:SER:CB	17:Q2:70:LYS:HE2	2.04	0.88
25:X2:774:ASN:HA	25:X2:797:LEU:CD1	2.02	0.88
25:X2:778:LYS:HB2	25:X2:794:ILE:HG12	1.53	0.88
26:Y1:1396:LEU:CD2	27:Z1:697:CYS:SG	2.60	0.88
26:Y2:1396:LEU:CD2	27:Z2:697:CYS:SG	2.60	0.88
27:Z2:356:LEU:HD13	27:Z2:358:ARG:HH21	1.39	0.88
27:Z2:440:MET:HG2	27:Z2:445:LEU:HD13	1.56	0.88
29:b1:65:PHE:HE2	29:b1:87:LEU:CD1	1.87	0.88
29:b1:68:TYR:HD2	29:b2:46:LYS:CG	1.86	0.88
9:I2:960:SER:CB	16:P3:154:ALA:CA	2.52	0.88
9:I2:1026:TYR:HA	13:M3:611:LYS:HA	1.53	0.88
9:I2:1048:GLU:OE1	14:N3:293:LYS:CE	2.21	0.88
9:I2:1049:LEU:HB2	16:P3:141:ALA:HB3	1.55	0.88
17:Q1:346:LEU:CD1	17:Q1:367:ILE:HG12	2.04	0.88
17:Q2:316:ILE:CD1	17:Q2:331:LEU:HD21	2.04	0.88
17:Q2:847:LEU:HD21	17:Q2:875:PHE:CD2	2.09	0.88
25:X1:650:GLU:O	25:X1:654:HIS:CE1	2.26	0.88
26:Y2:1345:LEU:HD22	26:Y2:1348:LYS:HZ3	1.32	0.88
27:Z1:55:HIS:CE1	27:Z1:98:SER:CB	2.56	0.88
27:Z1:326:LEU:HD22	27:Z1:352:GLU:OE2	1.74	0.88
27:Z2:46:TYR:CD1	27:Z2:54:TYR:HE1	1.91	0.88
27:Z2:361:LYS:HZ3	27:Z2:378:ASP:HB2	1.32	0.88
1:A3:945:ARG:HH21	9:I2:817:ASP:HB3	1.38	0.87
9:I2:904:GLU:C	13:M3:577:LEU:CD1	2.47	0.87
9:I2:1049:LEU:CD1	16:P3:142:LEU:HA	2.04	0.87
9:I2:1305:LEU:CD2	15:O3:264:ILE:HG13	1.92	0.87
17:Q1:752:GLN:HG3	17:Q1:808:TYR:HB2	1.55	0.87
17:Q2:922:LEU:HD21	19:R2:688:LEU:CD2	2.04	0.87
22:U1:289:GLN:CD	25:X1:794:ILE:HG23	1.99	0.87
25:X2:680:TYR:OH	27:Z2:439:LEU:HD11	1.74	0.87
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CZ	2.27	0.87
27:Z2:27:PHE:HZ	27:Z2:36:VAL:HG21	1.32	0.87
27:Z2:129:LYS:CE	27:Z2:185:LEU:HB2	2.01	0.87
27:Z2:263:TRP:HA	27:Z2:270:VAL:HG22	1.53	0.87
9:I1:1106:LYS:CE	13:M1:611:LYS:HG3	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1254:VAL:HA	14:N3:408:MET:C	1.98	0.87
17:Q1:139:ILE:HB	17:Q1:211:MET:HE1	1.54	0.87
17:Q2:517:PRO:HA	17:Q2:520:ILE:HG22	1.56	0.87
25:X2:704:GLN:OE1	27:Z2:598:LEU:HD11	1.74	0.87
25:X2:726:VAL:CG1	25:X2:727:SER:N	2.37	0.87
26:Y2:1337:HIS:ND1	27:Z1:111:ILE:CD1	2.38	0.87
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CG1	2.56	0.87
27:Z2:35:ILE:HB	27:Z2:46:TYR:CD2	2.08	0.87
27:Z2:252:GLN:NE2	27:Z2:335:MET:HG2	1.88	0.87
27:Z2:263:TRP:CH2	27:Z2:265:SER:HA	2.10	0.87
1:A2:1233:GLN:HG2	1:A1:587:VAL:HG13	1.55	0.87
1:A2:1332:ARG:CG	4:D1:905:SER:HB2	2.04	0.87
1:A4:127:HIS:N	4:D3:1010:ALA:HB1	1.87	0.87
9:I1:916:ALA:HB1	14:N1:315:VAL:HG22	1.55	0.87
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB3	0.80	0.87
17:Q1:166:ILE:HB	17:Q1:173:ILE:CG2	2.04	0.87
17:Q2:103:LYS:HA	17:Q2:103:LYS:HE3	1.56	0.87
17:Q2:725:PHE:CG	17:Q2:744:LYS:HG3	2.09	0.87
25:X1:649:THR:HG23	26:Y2:1231:ASN:HD21	1.38	0.87
25:X1:665:TRP:NE1	26:Y1:1267:GLU:HB2	1.46	0.87
25:X1:676:ILE:HD11	26:Y1:1274:ASN:ND2	1.89	0.87
25:X2:644:TRP:CE2	25:X2:648:LEU:HD11	2.09	0.87
25:X2:662:ILE:HD13	27:Z1:541:LYS:HZ3	1.38	0.87
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CD1	2.55	0.87
25:X2:700:ILE:CG1	26:Y2:1298:TYR:CE1	2.57	0.87
26:Y1:1316:GLU:CG	27:Z1:609:LEU:HD22	2.04	0.87
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HZ2	1.86	0.87
27:Z1:164:ILE:CD1	27:Z1:277:ARG:NH1	2.37	0.87
1:A3:937:ASP:CG	9:I2:815:ILE:CG2	2.41	0.87
4:D1:673:LEU:HD21	1:A1:1094:ILE:CG2	2.05	0.87
7:G2:249:ASP:HA	15:O4:251:ILE:HD13	1.54	0.87
9:I2:1026:TYR:HH	13:M3:608:LYS:HG2	1.32	0.87
9:I2:1051:LYS:CG	14:N3:289:PHE:HD1	1.87	0.87
17:Q2:108:TRP:NE1	17:Q2:110:ILE:HD13	1.89	0.87
17:Q2:166:ILE:HB	17:Q2:173:ILE:CG2	2.04	0.87
22:U1:289:GLN:CG	25:X1:794:ILE:CG2	2.52	0.87
22:U1:296:LEU:CG	27:Z1:653:GLN:O	2.22	0.87
25:X1:704:GLN:OE1	27:Z1:598:LEU:HD11	1.74	0.87
25:X2:655:PHE:CE1	27:Z1:534:GLU:OE2	2.28	0.87
25:X2:676:ILE:HD11	26:Y2:1274:ASN:ND2	1.89	0.87
26:Y1:1295:VAL:O	26:Y1:1299:VAL:HG23	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1383:ALA:O	26:Y2:1361:GLU:HG2	1.75	0.87
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:CD2	2.58	0.87
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HD11	1.52	0.87
27:Z1:544:THR:CB	27:Z2:554:HIS:ND1	2.23	0.87
27:Z2:137:TYR:HB2	27:Z2:269:LYS:HD2	0.90	0.87
1:A3:1331:GLU:HG2	4:D3:874:ALA:N	1.76	0.87
1:A3:1400:SER:O	4:D3:873:GLN:CB	2.17	0.87
6:F1:1265:GLN:CG	15:O2:252:VAL:H	1.86	0.87
9:I1:966:TRP:CE2	15:O1:183:VAL:CG1	2.56	0.87
9:I1:1050:SER:OG	14:N1:293:LYS:C	2.16	0.87
9:I2:1098:LEU:CD2	15:O3:269:ILE:CG2	2.46	0.87
17:Q2:852:ILE:HD11	17:Q2:913:LYS:HZ2	1.12	0.87
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD13	2.05	0.87
26:Y2:1295:VAL:O	26:Y2:1299:VAL:HG23	1.73	0.87
27:Z1:356:LEU:HD13	27:Z1:358:ARG:HH21	1.38	0.87
27:Z2:294:LEU:CD1	27:Z2:325:ILE:HD11	2.05	0.87
29:b2:16:ILE:HD11	29:b2:77:VAL:CG1	2.04	0.87
7:G1:252:LEU:O	15:O2:243:LEU:HD23	1.70	0.87
9:I1:910:LYS:HA	13:M1:548:LEU:HD13	1.54	0.87
9:I1:911:PRO:CG	15:O1:202:LEU:CG	2.51	0.87
9:I1:966:TRP:HB3	15:O1:176:ARG:O	1.74	0.87
9:I2:982:GLN:CB	15:O3:179:LEU:HD12	1.69	0.87
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CD1	2.04	0.87
26:Y1:1410:GLN:N	27:Z1:711:LYS:HE2	1.89	0.87
26:Y2:1333:ASP:N	26:Y2:1333:ASP:HA	1.89	0.87
27:Z1:294:LEU:CD1	27:Z1:325:ILE:HD11	2.05	0.87
27:Z2:282:GLN:O	27:Z2:283:GLY:CA	2.18	0.87
1:A3:1222:ALA:HB1	1:A4:598:VAL:HG23	1.56	0.87
1:A3:1332:ARG:HH21	4:D3:903:ILE:H	0.89	0.87
7:G1:253:SER:CA	15:O2:243:LEU:HD23	2.04	0.87
26:Y2:1368:LEU:N	26:Y2:1383:ALA:HB3	1.90	0.87
27:Z1:192:LEU:CD1	27:Z1:226:ILE:CD1	2.48	0.87
27:Z2:148:ASP:HB3	27:Z2:150:THR:HG23	1.56	0.87
1:A3:1222:ALA:HB2	1:A4:598:VAL:N	1.90	0.87
7:G1:254:ASN:ND2	15:O2:250:LEU:HB2	1.89	0.87
9:I1:910:LYS:O	13:M1:545:GLU:CG	2.23	0.87
9:I1:977:ASN:ND2	15:O1:178:ASP:N	2.21	0.87
13:M1:473:ARG:NH2	13:M2:536:GLU:OE2	2.08	0.87
17:Q1:139:ILE:CG2	17:Q1:165:ILE:HB	2.04	0.87
17:Q1:276:LEU:HD11	17:Q1:282:LEU:CD2	2.05	0.87
17:Q1:786:LEU:HD12	17:Q1:811:LEU:HD12	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:929:LEU:HD22	19:R2:691:THR:HB	1.54	0.87
18:R1:631:ILE:CD1	18:R1:632:LYS:HG3	2.05	0.87
25:X2:685:MET:HG2	27:Z2:445:LEU:HB3	1.54	0.87
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:CG2	2.05	0.87
26:Y2:1123:GLN:HE22	29:b1:37:LEU:CD1	1.87	0.87
27:Z2:317:VAL:O	27:Z2:324:LEU:HD12	1.74	0.87
29:b1:16:ILE:CG1	29:b1:21:LYS:CD	2.44	0.87
29:b1:55:ASN:ND2	29:b1:91:THR:O	2.08	0.87
1:A2:1091:VAL:HA	4:D1:1104:GLU:CG	2.05	0.87
1:A3:1221:ILE:HG12	1:A4:592:ASP:O	1.74	0.87
1:A3:1223:GLU:CG	1:A4:647:GLU:CB	2.53	0.87
6:F1:141:ALA:CB	9:I1:1390:PHE:CG	2.52	0.87
9:I1:981:VAL:HG11	15:O1:176:ARG:HE	1.38	0.87
9:I2:1308:THR:HG22	14:N3:414:ALA:CB	2.04	0.87
17:Q1:725:PHE:CG	17:Q1:744:LYS:HG3	2.09	0.87
17:Q2:139:ILE:CG2	17:Q2:165:ILE:HB	2.04	0.87
17:Q2:346:LEU:CD1	17:Q2:367:ILE:HG12	2.04	0.87
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG23	1.88	0.87
25:X2:695:GLN:HE21	27:Z2:431:TRP:CE2	1.30	0.87
26:Y2:1316:GLU:CG	27:Z2:609:LEU:HD22	2.04	0.87
27:Z1:325:ILE:CG2	27:Z1:350:LEU:HD11	1.92	0.87
29:b1:16:ILE:HD11	29:b1:77:VAL:CG1	2.03	0.87
29:b2:27:ILE:HD13	29:b2:48:GLN:OE1	1.74	0.87
1:A3:1204:TRP:HD1	1:A4:595:GLU:HG3	1.38	0.86
1:A3:1223:GLU:HG3	1:A4:648:TYR:CG	2.06	0.86
1:A4:1053:ARG:HE	4:D3:671:ARG:HH22	0.90	0.86
6:F1:138:ILE:HG23	9:I1:1391:THR:HG22	1.57	0.86
9:I2:914:ASN:HD22	15:O3:194:GLU:HB3	1.04	0.86
9:I2:917:TYR:CD2	15:O3:190:ARG:NH1	2.42	0.86
17:Q1:943:THR:HA	17:Q1:946:LYS:HE3	1.57	0.86
19:R2:631:ILE:CD1	19:R2:632:LYS:HG3	2.05	0.86
26:Y1:1218:PHE:CE1	26:Y1:1222:GLU:CD	2.53	0.86
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:C	2.31	0.86
27:Z1:179:VAL:HG22	27:Z1:206:PHE:HD2	1.26	0.86
27:Z1:538:ARG:CA	27:Z2:551:ASN:H	1.88	0.86
27:Z2:190:ASP:HA	27:Z2:311:GLN:HG3	1.55	0.86
1:A2:1204:TRP:CE2	1:A1:598:VAL:HG12	2.11	0.86
1:A2:1223:GLU:OE2	1:A1:610:THR:HG22	1.75	0.86
1:A3:1332:ARG:NH2	4:D3:902:SER:CB	2.04	0.86
6:F1:1046:HIS:CD2	9:I1:1390:PHE:CD2	2.62	0.86
9:I1:916:ALA:HB3	13:M1:534:GLN:HG2	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:960:SER:O	15:O1:182:THR:HG22	1.75	0.86
9:I2:966:TRP:CB	15:O3:178:ASP:OD1	2.23	0.86
9:I2:1107:SER:CA	13:M3:615:PRO:HG3	2.05	0.86
17:Q1:58:SER:CB	17:Q1:70:LYS:HE2	2.04	0.86
17:Q1:847:LEU:HD21	17:Q1:875:PHE:CD2	2.09	0.86
17:Q2:552:THR:CA	17:Q2:556:HIS:HB2	2.06	0.86
19:R2:538:LEU:HG	19:R2:659:TYR:CE1	2.11	0.86
25:X1:752:ASP:CG	26:Y1:1345:LEU:CD1	2.48	0.86
26:Y2:1294:LYS:HD3	27:Z2:588:TRP:CD1	2.08	0.86
27:Z2:129:LYS:CD	27:Z2:145:LEU:HD23	2.00	0.86
27:Z2:326:LEU:HD22	27:Z2:352:GLU:OE2	1.75	0.86
6:F1:138:ILE:HD11	9:I1:1388:GLU:HA	1.56	0.86
17:Q1:451:ASN:N	17:Q1:548:PRO:CB	2.38	0.86
17:Q1:503:TYR:CE1	17:Q1:538:ILE:HG13	2.09	0.86
17:Q2:503:TYR:CE1	17:Q2:538:ILE:HG13	2.09	0.86
17:Q2:553:LEU:CD2	17:Q2:632:LYS:HB3	2.06	0.86
17:Q2:654:VAL:CG1	17:Q2:666:LYS:HE2	2.04	0.86
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD13	2.05	0.86
25:X1:788:ASP:N	25:X1:788:ASP:C	2.32	0.86
26:Y1:1407:SER:HA	26:Y1:1410:GLN:CG	2.05	0.86
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:HZ2	1.38	0.86
26:Y2:1333:ASP:N	27:Z1:109:PHE:HE1	1.73	0.86
27:Z1:364:ILE:CG2	27:Z1:374:TYR:HB2	2.05	0.86
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CG1	2.55	0.86
9:I1:909:ARG:CA	13:M1:548:LEU:CD2	2.53	0.86
9:I1:963:LEU:HD13	16:P1:152:LYS:HD3	1.57	0.86
9:I2:1033:PRO:HG2	13:M3:619:ILE:N	1.89	0.86
17:Q1:517:PRO:HA	17:Q1:520:ILE:HG22	1.56	0.86
17:Q1:654:VAL:CG1	17:Q1:666:LYS:HE2	2.04	0.86
26:Y2:1317:TYR:CG	27:Z1:48:VAL:O	2.28	0.86
26:Y2:1410:GLN:N	27:Z2:711:LYS:HE2	1.89	0.86
27:Z2:303:ALA:HB3	27:Z2:363:LEU:HD22	1.58	0.86
27:Z2:448:GLN:CB	27:Z2:573:LYS:NZ	2.39	0.86
1:A2:1221:ILE:CA	1:A1:599:ARG:HB3	2.05	0.86
9:I1:904:GLU:N	13:M1:576:LYS:CB	2.35	0.86
9:I1:978:LYS:CG	15:O1:176:ARG:NH1	2.33	0.86
17:Q2:276:LEU:HD11	17:Q2:282:LEU:CD2	2.05	0.86
17:Q2:856:LYS:HB2	17:Q2:859:ASP:HB2	1.57	0.86
18:R1:538:LEU:HG	18:R1:659:TYR:CE1	2.11	0.86
22:U1:340:LYS:NZ	27:Z1:642:ASN:OD1	2.06	0.86
26:Y1:1452:PHE:CE2	27:Z1:402:LEU:HD13	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1123:GLN:NE2	29:b1:37:LEU:CD1	2.36	0.86
26:Y2:1211:LEU:CA	26:Y2:1212:ARG:N	2.38	0.86
26:Y2:1277:LYS:HZ2	27:Z2:571:ILE:H	1.18	0.86
26:Y2:1362:LEU:CA	26:Y2:1387:LYS:HD2	2.05	0.86
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:H	1.39	0.86
26:Y2:1407:SER:HA	26:Y2:1410:GLN:CG	2.05	0.86
27:Z2:362:SER:OG	27:Z2:376:ILE:HB	1.74	0.86
1:A2:1328:ARG:HD3	4:D1:976:ARG:CD	2.05	0.86
9:I1:1363:GLU:CG	15:O1:266:GLN:HG2	2.06	0.86
9:I2:900:ARG:N	13:M3:584:GLN:OE1	2.07	0.86
9:I2:1099:ARG:HG3	15:O3:268:GLY:CA	2.05	0.86
9:I2:1099:ARG:NH2	13:M3:610:SER:HA	1.89	0.86
17:Q2:891:ILE:HD13	19:R2:715:LEU:HD22	0.87	0.86
22:U1:201:LYS:HZ3	26:Y2:1372:LYS:C	1.82	0.86
27:Z1:241:THR:HB	27:Z1:246:LYS:NZ	1.91	0.86
27:Z2:241:THR:HB	27:Z2:246:LYS:NZ	1.91	0.86
1:A3:937:ASP:OD2	9:I2:815:ILE:HG23	1.74	0.86
6:F1:267:GLU:HG2	11:K1:638:PRO:CD	2.06	0.86
9:I1:919:ALA:C	15:O1:191:ARG:CZ	2.49	0.86
9:I2:963:LEU:CD1	16:P3:147:LEU:O	2.20	0.86
10:J1:250:THR:OG1	15:O1:277:GLU:HB2	1.04	0.86
10:J1:252:LEU:CD2	15:O1:269:ILE:HG22	2.04	0.86
17:Q1:294:THR:CG2	17:Q1:308:ILE:HG12	2.05	0.86
17:Q1:552:THR:CA	17:Q1:556:HIS:HB2	2.06	0.86
17:Q2:417:LEU:CD2	17:Q2:426:ILE:HG22	2.06	0.86
25:X2:686:ALA:HA	27:Z2:8:SER:HB2	1.57	0.86
25:X2:789:GLU:HB2	27:Z2:680:TRP:CE3	2.11	0.86
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:CG2	2.05	0.86
27:Z1:45:TRP:CH2	27:Z1:95:TRP:CZ3	2.64	0.86
27:Z1:263:TRP:CH2	27:Z1:265:SER:HA	2.10	0.86
27:Z2:241:THR:CG2	27:Z2:246:LYS:HG2	2.06	0.86
1:A2:1220:PRO:C	1:A1:599:ARG:HB3	1.99	0.86
1:A3:1082:LEU:O	4:D3:1096:TYR:OH	1.92	0.86
6:F1:158:PRO:CG	9:I1:1339:LEU:N	2.36	0.86
9:I2:1308:THR:H	14:N3:414:ALA:CA	1.85	0.86
17:Q1:140:LEU:HD23	17:Q1:141:THR:N	1.91	0.86
17:Q2:553:LEU:CD1	17:Q2:629:LEU:HD22	2.06	0.86
17:Q2:1066:PHE:CB	17:Q2:1144:LYS:HE3	1.99	0.86
24:W1:526:ARG:HB2	24:W1:740:PHE:N	1.91	0.86
27:Z1:94:PRO:CB	27:Z1:109:PHE:HZ	1.88	0.86
27:Z1:129:LYS:CE	27:Z1:185:LEU:HB2	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:148:ASP:HB3	27:Z1:150:THR:HG23	1.56	0.86
27:Z1:331:LEU:HD12	27:Z1:347:SER:HB2	1.56	0.86
27:Z2:141:CYS:SG	27:Z2:213:PRO:CB	2.63	0.86
27:Z2:393:LEU:CD2	27:Z2:405:LEU:HD22	1.91	0.86
1:A1:827:ILE:HD13	1:A1:849:SER:OG	1.76	0.86
1:A2:1237:LEU:HD11	1:A1:588:SER:CA	2.06	0.86
6:F2:1267:ARG:HH11	15:O4:262:ASP:HB2	1.03	0.86
9:I2:911:PRO:HB2	15:O3:197:ARG:CD	2.05	0.86
9:I2:919:ALA:CA	16:P3:157:GLU:OE1	2.24	0.86
9:I2:1033:PRO:HG3	13:M3:616:LEU:CA	1.96	0.86
17:Q1:108:TRP:NE1	17:Q1:110:ILE:HD13	1.89	0.86
18:R1:558:ILE:HG23	18:R1:581:LEU:HD13	1.58	0.86
22:U1:192:ILE:N	27:Z1:664:ARG:HH12	1.67	0.86
26:Y1:1429:LYS:CE	26:Y1:1434:PHE:CZ	2.44	0.86
27:Z2:303:ALA:HB2	27:Z2:363:LEU:HD22	0.86	0.86
27:Z2:437:LEU:HD12	27:Z2:448:GLN:HE22	1.37	0.86
1:A2:1328:ARG:HD2	4:D1:976:ARG:NE	1.88	0.86
1:A4:625:LEU:O	4:D3:977:GLU:OE2	1.75	0.86
6:F1:267:GLU:OE2	11:K1:638:PRO:CD	2.23	0.86
6:F2:132:THR:HG21	9:I2:1334:PRO:HA	0.87	0.86
7:G1:251:TYR:CD2	15:O2:244:GLU:CA	2.57	0.86
9:I2:911:PRO:CB	15:O3:197:ARG:HG2	2.06	0.86
17:Q2:960:ILE:CD1	17:Q2:1005:LEU:HD12	2.06	0.86
22:U1:297:LEU:CA	27:Z1:654:ASP:OD1	2.23	0.86
25:X2:752:ASP:CG	26:Y2:1345:LEU:CD1	2.48	0.86
26:Y1:1294:LYS:HD3	27:Z1:588:TRP:CD1	2.08	0.86
26:Y1:1383:ALA:O	26:Y2:1361:GLU:CB	2.23	0.86
26:Y2:1218:PHE:CE1	26:Y2:1222:GLU:CD	2.53	0.86
26:Y2:1452:PHE:CE2	27:Z2:402:LEU:HD13	2.10	0.86
27:Z1:46:TYR:CD1	27:Z1:54:TYR:HE1	1.91	0.86
27:Z1:312:ASN:HD21	27:Z1:397:ILE:HD12	1.41	0.86
27:Z1:362:SER:OG	27:Z1:376:ILE:HB	1.75	0.86
1:A2:1328:ARG:HH22	4:D1:898:ASP:CG	1.83	0.85
6:F2:140:GLU:N	9:I2:1391:THR:HG22	1.88	0.85
9:I2:914:ASN:ND2	15:O3:194:GLU:OE1	2.09	0.85
9:I2:976:ARG:NH1	16:P3:141:ALA:CB	2.39	0.85
25:X1:679:LEU:O	26:Y1:1281:MET:HE1	1.76	0.85
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:CD1	1.72	0.85
27:Z1:24:ARG:HD2	27:Z1:441:SER:O	1.76	0.85
27:Z2:12:ILE:HD11	27:Z2:44:ARG:HB3	1.58	0.85
27:Z2:326:LEU:HB3	27:Z2:352:GLU:CG	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:364:ILE:CG2	27:Z2:374:TYR:HB2	2.05	0.85
1:A3:1221:ILE:CA	1:A4:595:GLU:HG2	2.02	0.85
9:I1:904:GLU:OE2	13:M1:577:LEU:HG	1.75	0.85
9:I1:977:ASN:CA	15:O1:177:HIS:N	1.78	0.85
9:I2:968:PRO:HG2	14:N3:300:ALA:HA	0.86	0.85
9:I2:1103:LEU:HA	15:O3:275:LEU:CD2	2.06	0.85
17:Q2:294:THR:CG2	17:Q2:308:ILE:HG12	2.05	0.85
17:Q2:532:LYS:HB2	17:Q2:581:PRO:HD3	1.56	0.85
17:Q2:706:LEU:HB3	17:Q2:707:PRO:HD3	1.58	0.85
17:Q2:847:LEU:HD21	17:Q2:875:PHE:HD2	1.40	0.85
26:Y1:1305:GLN:HE22	27:Z1:595:GLN:HB2	1.41	0.85
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HD3	2.06	0.85
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HD3	2.06	0.85
27:Z2:189:LYS:C	27:Z2:311:GLN:OE1	2.19	0.85
29:b2:81:ILE:HD12	29:b2:86:PHE:CE2	2.09	0.85
9:I1:981:VAL:HG12	15:O1:176:ARG:CG	2.05	0.85
9:I2:895:ARG:HG3	13:M3:583:ASP:O	1.75	0.85
9:I2:1168:ALA:N	15:O3:270:THR:OG1	2.09	0.85
9:I2:1253:GLY:N	14:N3:409:ALA:C	2.34	0.85
9:I2:1305:LEU:CD1	15:O3:263:GLN:OE1	2.18	0.85
10:J1:247:ASP:HB3	15:O1:277:GLU:N	1.89	0.85
17:Q1:814:LEU:HD12	17:Q1:815:VAL:N	1.91	0.85
22:U1:243:PHE:HA	27:Z1:657:TYR:HB2	1.58	0.85
22:U1:299:GLU:HB2	27:Z1:652:GLN:HB2	1.53	0.85
25:X1:644:TRP:CE2	25:X1:648:LEU:HD11	2.09	0.85
25:X2:680:TYR:O	27:Z2:446:THR:HG22	1.74	0.85
27:Z1:69:PHE:HA	27:Z1:84:ASN:CG	2.01	0.85
27:Z1:541:LYS:CE	27:Z2:549:ILE:O	2.24	0.85
1:A4:827:ILE:CD1	1:A4:849:SER:N	2.39	0.85
4:D1:468:LYS:HD2	1:A1:999:SER:HG	1.41	0.85
6:F1:158:PRO:HB2	9:I1:1339:LEU:HB2	1.55	0.85
9:I1:966:TRP:CZ2	15:O1:183:VAL:HG11	2.12	0.85
9:I2:1167:ALA:HB3	15:O3:270:THR:OG1	1.76	0.85
17:Q1:384:ASN:CB	17:Q1:509:ALA:N	1.85	0.85
17:Q1:417:LEU:CD2	17:Q1:426:ILE:HG22	2.06	0.85
17:Q1:451:ASN:N	17:Q1:548:PRO:HB2	1.88	0.85
19:R2:711:LEU:HA	19:R2:714:TYR:CD2	2.12	0.85
26:Y2:1212:ARG:N	26:Y2:1215:GLU:OE1	2.10	0.85
26:Y2:1277:LYS:CE	27:Z2:570:ILE:HB	2.03	0.85
26:Y2:1338:GLN:HG2	27:Z1:108:ALA:HB2	1.59	0.85
27:Z1:125:SER:HB3	27:Z1:148:ASP:CG	2.01	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:7:LEU:N	27:Z2:9:ALA:N	2.20	0.85
27:Z2:164:ILE:CD1	27:Z2:277:ARG:NH1	2.38	0.85
29:b1:68:TYR:CD2	29:b2:46:LYS:CG	2.59	0.85
7:G2:253:SER:CA	15:O4:249:ARG:C	2.50	0.85
9:I2:964:SER:H	16:P3:152:LYS:CA	1.88	0.85
17:Q1:960:ILE:CD1	17:Q1:1005:LEU:HD12	2.06	0.85
17:Q2:606:GLN:O	17:Q2:609:VAL:HG12	1.77	0.85
17:Q2:1003:VAL:HG21	17:Q2:1037:LEU:HD13	1.55	0.85
24:W1:293:LEU:HD13	24:W1:297:LEU:HD12	1.58	0.85
25:X2:690:GLN:CA	27:Z2:7:LEU:HD22	2.05	0.85
25:X2:695:GLN:NE2	27:Z2:431:TRP:CZ2	2.45	0.85
26:Y1:1336:THR:HG22	26:Y1:1340:ARG:HD2	1.58	0.85
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:HB2	2.11	0.85
27:Z1:57:LEU:O	27:Z1:57:LEU:HG	1.76	0.85
27:Z1:141:CYS:SG	27:Z1:213:PRO:CB	2.63	0.85
27:Z2:24:ARG:N	27:Z2:24:ARG:HA	1.91	0.85
27:Z2:69:PHE:HA	27:Z2:84:ASN:CG	2.01	0.85
27:Z2:331:LEU:HD12	27:Z2:347:SER:HB2	1.56	0.85
1:A1:827:ILE:CD1	1:A1:849:SER:N	2.39	0.85
1:A2:1270:SER:HB3	1:A1:729:SER:C	1.97	0.85
1:A3:1271:ILE:CG1	1:A4:730:THR:HG22	1.92	0.85
9:I2:916:ALA:C	16:P3:158:THR:O	2.18	0.85
9:I2:919:ALA:N	16:P3:157:GLU:CB	2.24	0.85
17:Q1:103:LYS:HE3	17:Q1:103:LYS:HA	1.56	0.85
17:Q1:553:LEU:CD2	17:Q1:632:LYS:HB3	2.06	0.85
25:X2:686:ALA:CA	27:Z2:8:SER:CB	2.55	0.85
25:X2:721:LEU:CD1	27:Z2:612:ILE:HD11	2.06	0.85
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:HG22	1.58	0.85
26:Y2:1305:GLN:OE1	27:Z2:599:MET:HG3	1.77	0.85
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:HZ1	1.39	0.85
26:Y2:1369:PHE:HD2	26:Y2:1382:VAL:CB	1.89	0.85
27:Z1:437:LEU:CD2	27:Z1:450:ILE:HD11	2.06	0.85
27:Z2:45:TRP:CH2	27:Z2:95:TRP:CZ3	2.64	0.85
27:Z2:263:TRP:HZ3	27:Z2:265:SER:CA	1.86	0.85
27:Z2:312:ASN:HD21	27:Z2:397:ILE:HD12	1.41	0.85
27:Z2:625:HIS:CE1	27:Z2:628:MET:HB3	2.11	0.85
29:b2:71:HIS:HB3	29:b2:76:PHE:CD1	2.11	0.85
1:A3:1223:GLU:CD	1:A4:648:TYR:CD2	2.54	0.85
7:G1:252:LEU:C	15:O2:243:LEU:CD2	2.46	0.85
9:I1:965:ALA:HB2	15:O1:185:ALA:HB2	1.56	0.85
9:I2:919:ALA:HB2	16:P3:157:GLU:HA	0.86	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1253:GLY:HA2	14:N3:410:MET:CB	2.07	0.85
17:Q1:1119:GLN:O	17:Q1:1122:THR:HG22	1.77	0.85
25:X2:679:LEU:O	26:Y2:1281:MET:HE1	1.76	0.85
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:HG22	1.58	0.85
26:Y1:1270:LEU:CD2	27:Z1:564:LEU:HD23	2.07	0.85
26:Y1:1443:MET:HE1	27:Z1:332:GLU:CD	1.74	0.85
26:Y2:1334:LEU:CB	27:Z1:108:ALA:CB	2.41	0.85
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HE2	1.92	0.85
27:Z2:158:ASN:HB2	27:Z2:161:GLU:OE2	1.77	0.85
27:Z2:437:LEU:CD2	27:Z2:450:ILE:HD11	2.06	0.85
27:Z2:522:GLU:HG2	27:Z2:524:GLN:N	1.91	0.85
29:b2:63:LYS:HD3	29:b2:83:PRO:O	1.76	0.85
6:F1:1053:LEU:HD23	9:I1:1388:GLU:HG2	1.55	0.85
9:I2:964:SER:H	16:P3:152:LYS:N	1.74	0.85
17:Q1:465:LEU:HD13	17:Q1:466:TYR:N	1.92	0.85
25:X2:745:TYR:CG	27:Z1:104:SER:HB2	2.12	0.85
26:Y1:1298:TYR:CZ	26:Y1:1302:ASP:OD2	2.29	0.85
27:Z1:12:ILE:HD11	27:Z1:44:ARG:HB3	1.58	0.85
27:Z1:116:ILE:HD11	27:Z1:124:LYS:HB2	1.57	0.85
27:Z1:395:LYS:NZ	27:Z2:267:PHE:HB2	1.89	0.85
27:Z2:57:LEU:O	27:Z2:57:LEU:HG	1.76	0.85
27:Z2:328:PHE:HE2	27:Z2:349:VAL:HG12	1.42	0.85
1:A3:1332:ARG:HD2	4:D3:899:THR:HG22	0.85	0.85
1:A4:827:ILE:HG23	1:A4:850:PRO:CD	2.07	0.85
7:G2:253:SER:O	15:O4:249:ARG:O	1.95	0.85
9:I2:754:ARG:HH21	13:M3:573:ARG:NH1	1.75	0.85
9:I2:806:VAL:CB	15:O3:247:TRP:CB	2.54	0.85
17:Q1:553:LEU:CD1	17:Q1:629:LEU:HD22	2.06	0.85
17:Q1:847:LEU:HD21	17:Q1:875:PHE:HD2	1.40	0.85
17:Q1:856:LYS:HB2	17:Q1:859:ASP:HB2	1.57	0.85
17:Q2:465:LEU:HD13	17:Q2:466:TYR:N	1.92	0.85
19:R2:586:GLN:HG2	19:R2:635:LEU:H	1.42	0.85
22:U1:288:LEU:HD13	25:X1:792:GLN:CA	2.05	0.85
25:X1:700:ILE:O	26:Y1:1298:TYR:OH	1.94	0.85
25:X2:791:ILE:HA	25:X2:794:ILE:HG12	1.59	0.85
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:HA	1.19	0.85
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:HD23	1.58	0.85
29:b2:27:ILE:CG1	29:b2:48:GLN:OE1	2.25	0.85
1:A2:1203:TYR:HB3	1:A1:599:ARG:HH22	1.40	0.85
1:A2:1331:GLU:HA	4:D1:903:ILE:CG1	2.07	0.85
1:A3:872:SER:O	4:D1:513:ASP:OD1	1.95	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:253:SER:H	13:M2:595:MET:CE	1.90	0.85
9:I2:887:GLN:HE22	13:M3:597:LYS:HZ3	0.90	0.85
9:I2:961:ARG:CD	16:P3:155:GLU:O	2.24	0.85
9:I2:968:PRO:CG	14:N3:300:ALA:O	2.25	0.85
17:Q1:606:GLN:O	17:Q1:609:VAL:HG12	1.77	0.85
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:HD2	1.42	0.85
18:R1:664:LEU:HB3	18:R1:690:PHE:CE1	2.12	0.85
19:R2:558:ILE:HG23	19:R2:581:LEU:HD13	1.58	0.85
22:U1:340:LYS:CG	27:Z1:646:HIS:NE2	2.40	0.85
26:Y1:1122:ILE:O	29:b2:39:ARG:HG3	1.76	0.85
26:Y1:1429:LYS:CD	26:Y1:1434:PHE:CE1	2.59	0.85
26:Y2:1332:LYS:HB2	27:Z1:97:TYR:HB2	1.59	0.85
27:Z2:189:LYS:O	27:Z2:311:GLN:CD	2.20	0.85
1:A3:937:ASP:OD1	9:I2:815:ILE:HG22	1.73	0.84
1:A3:1200:ARG:HG3	1:A4:592:ASP:OD2	1.77	0.84
7:G1:248:VAL:C	15:O2:247:TRP:CZ2	2.46	0.84
9:I1:913:ALA:O	13:M1:541:LEU:CD1	2.25	0.84
17:Q2:140:LEU:HD23	17:Q2:141:THR:N	1.91	0.84
17:Q2:866:GLN:HA	17:Q2:870:VAL:CG2	2.06	0.84
17:Q2:943:THR:HA	17:Q2:946:LYS:HE3	1.58	0.84
19:R2:721:THR:HA	19:R2:724:LEU:HD11	1.59	0.84
22:U1:212:LYS:HZ1	25:X1:768:GLU:HG2	1.12	0.84
22:U1:289:GLN:NE2	25:X1:794:ILE:HG13	1.90	0.84
25:X2:695:GLN:H	27:Z2:431:TRP:HE3	1.23	0.84
26:Y1:1383:ALA:H	26:Y2:1364:ASN:CG	1.78	0.84
26:Y2:1298:TYR:CZ	26:Y2:1302:ASP:OD2	2.29	0.84
26:Y2:1305:GLN:HE22	27:Z2:595:GLN:HB2	1.41	0.84
26:Y2:1454:LYS:CE	27:Z2:349:VAL:HG22	2.07	0.84
27:Z1:424:PRO:HB2	27:Z1:439:LEU:HD22	1.58	0.84
27:Z2:152:THR:HG1	27:Z2:154:PHE:HE1	1.25	0.84
29:b2:9:PRO:HD3	29:b2:29:LYS:HZ1	1.17	0.84
1:A2:1226:LEU:HD23	1:A1:647:GLU:CB	2.07	0.84
1:A3:1332:ARG:NE	4:D3:899:THR:O	2.10	0.84
9:I1:979:ALA:N	15:O1:176:ARG:HA	1.70	0.84
9:I2:807:LEU:HD11	15:O3:248:SER:CB	2.05	0.84
17:Q1:596:CYS:SG	17:Q1:679:ASP:HB2	2.17	0.84
17:Q1:866:GLN:HA	17:Q1:870:VAL:CG2	2.07	0.84
17:Q2:596:CYS:SG	17:Q2:679:ASP:HB2	2.17	0.84
22:U1:193:ILE:CG1	27:Z1:664:ARG:CD	2.39	0.84
23:V1:159:ILE:HG12	23:V1:175:LEU:HB3	1.59	0.84
25:X1:795:LYS:HZ1	27:Z1:666:GLU:CA	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:685:MET:CE	27:Z2:13:PHE:CE2	2.59	0.84
25:X2:690:GLN:HE22	27:Z2:581:PHE:HE2	1.17	0.84
27:Z1:124:LYS:HD2	27:Z1:125:SER:C	1.76	0.84
27:Z1:158:ASN:HB2	27:Z1:161:GLU:OE2	1.77	0.84
27:Z1:401:ASP:OD2	27:Z2:263:TRP:CA	2.24	0.84
27:Z2:297:TYR:CD2	27:Z2:321:ASP:CG	2.55	0.84
1:A2:1331:GLU:HB2	4:D1:899:THR:HA	1.59	0.84
6:F1:142:ALA:HB2	9:I1:1391:THR:O	1.75	0.84
9:I1:1049:LEU:CB	15:O1:170:LEU:HB3	2.07	0.84
17:Q1:440:ARG:HD2	17:Q1:514:PHE:CE2	2.12	0.84
17:Q1:553:LEU:HD22	17:Q1:632:LYS:CB	2.07	0.84
17:Q2:700:GLU:CG	17:Q2:758:ILE:HG12	2.07	0.84
25:X1:789:GLU:CD	25:X1:793:LEU:HD11	2.01	0.84
26:Y2:1362:LEU:CB	26:Y2:1387:LYS:HE3	1.86	0.84
27:Z1:326:LEU:HB3	27:Z1:352:GLU:CG	2.06	0.84
1:A4:827:ILE:HD13	1:A4:849:SER:OG	1.76	0.84
9:I1:1246:ILE:HD11	15:O1:255:GLY:HA2	0.87	0.84
9:I2:892:HIS:HA	13:M3:588:MET:O	1.77	0.84
9:I2:1049:LEU:HD23	14:N3:295:GLU:N	1.92	0.84
9:I2:1105:TRP:CB	15:O3:276:GLY:O	2.23	0.84
17:Q2:814:LEU:HD12	17:Q2:815:VAL:N	1.91	0.84
25:X1:662:ILE:HD11	27:Z1:549:ILE:CG2	2.07	0.84
25:X1:789:GLU:CG	27:Z1:680:TRP:CD2	2.51	0.84
25:X1:790:ASN:CG	27:Z1:680:TRP:CH2	2.55	0.84
26:Y1:1386:ALA:HB3	26:Y2:1361:GLU:H	1.41	0.84
27:Z1:69:PHE:N	27:Z1:84:ASN:HD21	1.75	0.84
27:Z1:282:GLN:O	27:Z1:283:GLY:CA	2.18	0.84
1:A4:521:ASN:HB2	4:D3:1019:ARG:HH22	1.37	0.84
6:F1:1265:GLN:CA	15:O2:252:VAL:CA	2.41	0.84
9:I2:1028:CYS:CB	13:M3:613:ASP:OD1	2.26	0.84
17:Q1:520:ILE:HD12	17:Q1:574:ASN:HB3	1.59	0.84
17:Q1:706:LEU:HB3	17:Q1:707:PRO:HD3	1.58	0.84
17:Q2:922:LEU:CD1	19:R2:688:LEU:C	2.50	0.84
17:Q2:1119:GLN:O	17:Q2:1122:THR:HG22	1.77	0.84
25:X1:790:ASN:CG	27:Z1:680:TRP:HZ2	1.83	0.84
25:X2:689:SER:N	27:Z2:8:SER:OG	2.11	0.84
26:Y2:1236:ASP:HA	26:Y2:1239:PHE:CD2	2.09	0.84
27:Z1:682:GLU:OE1	27:Z2:650:SER:OG	1.94	0.84
27:Z2:69:PHE:N	27:Z2:84:ASN:HD21	1.75	0.84
1:A2:1200:ARG:HB2	1:A1:591:ASP:O	1.77	0.84
1:A2:1228:TYR:CZ	1:A1:639:ASN:O	2.30	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1332:ARG:HH22	4:D3:902:SER:HB2	0.67	0.84
6:F1:138:ILE:CD1	9:I1:1391:THR:HB	2.08	0.84
6:F1:138:ILE:HA	9:I1:1388:GLU:O	1.77	0.84
9:I1:1246:ILE:CD1	15:O1:255:GLY:HA3	1.92	0.84
9:I2:1051:LYS:CD	14:N3:289:PHE:HA	2.07	0.84
17:Q1:60:VAL:CG2	17:Q1:68:ILE:HD11	2.08	0.84
17:Q1:383:LEU:HA	17:Q1:508:ASN:HA	1.59	0.84
17:Q1:568:LEU:HD22	17:Q1:588:ILE:HD11	1.56	0.84
17:Q1:931:SER:O	17:Q1:934:VAL:HG12	1.77	0.84
23:V2:159:ILE:HG12	23:V2:175:LEU:HB3	1.59	0.84
25:X1:662:ILE:HG23	27:Z1:556:GLN:HE22	1.42	0.84
25:X1:690:GLN:HE22	27:Z1:581:PHE:HE2	1.17	0.84
25:X2:797:LEU:HD21	26:Y2:1384:LYS:NZ	1.92	0.84
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CE3	2.65	0.84
27:Z1:289:PRO:HD2	27:Z1:350:LEU:HB3	1.60	0.84
27:Z1:329:LYS:HE3	27:Z1:333:MET:SD	2.17	0.84
27:Z1:331:LEU:HD13	27:Z1:345:ASN:HA	1.58	0.84
27:Z2:331:LEU:HD13	27:Z2:345:ASN:HA	1.58	0.84
1:A3:1399:ARG:HD3	4:D3:866:PHE:CD1	2.13	0.84
9:I1:900:ARG:HG2	13:M1:577:LEU:HA	1.53	0.84
9:I1:1311:LEU:HD22	15:O1:266:GLN:CB	2.04	0.84
9:I2:895:ARG:HB3	13:M3:588:MET:H	1.35	0.84
18:R1:586:GLN:HG2	18:R1:635:LEU:H	1.43	0.84
18:R1:711:LEU:HA	18:R1:714:TYR:CD2	2.12	0.84
19:R2:633:THR:HG23	19:R2:636:VAL:CG2	2.08	0.84
25:X1:648:LEU:CD1	27:Z1:535:PHE:CD1	2.49	0.84
25:X1:777:ASN:OD1	26:Y1:1369:PHE:CE1	2.31	0.84
26:Y2:1295:VAL:HA	27:Z2:588:TRP:CH2	2.13	0.84
27:Z1:263:TRP:HZ3	27:Z1:265:SER:CA	1.86	0.84
27:Z1:303:ALA:HB2	27:Z1:363:LEU:HD22	0.86	0.84
1:A3:1332:ARG:CZ	4:D3:899:THR:C	2.50	0.84
9:I2:917:TYR:CE1	15:O3:186:PHE:O	2.31	0.84
9:I2:1107:SER:CB	13:M3:615:PRO:HB3	2.08	0.84
13:M3:469:GLU:OE1	13:M4:536:GLU:CG	2.25	0.84
17:Q1:532:LYS:HB2	17:Q1:581:PRO:HD3	1.56	0.84
17:Q2:699:MET:O	17:Q2:703:THR:HG23	1.77	0.84
18:R1:633:THR:HG23	18:R1:636:VAL:CG2	2.07	0.84
25:X2:648:LEU:HD11	27:Z2:535:PHE:CZ	2.11	0.84
25:X2:648:LEU:CD1	27:Z2:535:PHE:CD1	2.49	0.84
25:X2:662:ILE:CD1	27:Z2:549:ILE:CG2	2.53	0.84
25:X2:662:ILE:HG23	27:Z2:556:GLN:HE22	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:263:TRP:HZ3	27:Z2:265:SER:CB	1.91	0.84
27:Z2:289:PRO:HD2	27:Z2:350:LEU:HB3	1.59	0.84
1:A2:1229:VAL:HG23	1:A1:643:ALA:HB2	1.59	0.84
6:F1:272:GLU:OE1	9:I1:1209:THR:O	1.90	0.84
9:I1:1357:LYS:HZ1	15:O1:263:GLN:HA	1.42	0.84
9:I2:806:VAL:CB	15:O3:247:TRP:HB2	2.08	0.84
17:Q2:68:ILE:HD13	17:Q2:69:VAL:N	1.92	0.84
18:R1:656:ARG:O	18:R1:660:THR:HG22	1.77	0.84
25:X1:648:LEU:CG	27:Z2:547:VAL:HG11	2.08	0.84
26:Y2:1332:LYS:C	27:Z1:94:PRO:N	2.35	0.84
27:Z2:125:SER:HB3	27:Z2:148:ASP:CG	2.01	0.84
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HG12	2.13	0.84
27:Z2:329:LYS:HE3	27:Z2:333:MET:SD	2.18	0.84
29:b2:42:ALA:C	29:b2:59:VAL:HG21	2.02	0.84
1:A1:827:ILE:HG23	1:A1:850:PRO:CD	2.07	0.84
1:A3:871:ASN:CB	4:D1:515:ASN:HB3	2.06	0.84
1:A4:520:GLU:CG	4:D3:1017:THR:CG2	2.28	0.84
9:I1:1051:LYS:CA	14:N1:293:LYS:CD	2.31	0.84
9:I2:809:HIS:CB	15:O3:244:GLU:H	1.90	0.84
9:I2:885:GLU:O	13:M3:594:LYS:HD3	1.78	0.84
9:I2:1051:LYS:NZ	14:N3:289:PHE:CA	2.33	0.84
9:I2:1168:ALA:HA	15:O3:270:THR:HA	1.60	0.84
17:Q1:68:ILE:HD13	17:Q1:69:VAL:N	1.91	0.84
17:Q2:553:LEU:HD22	17:Q2:632:LYS:CB	2.07	0.84
19:R2:664:LEU:HB3	19:R2:690:PHE:CE1	2.12	0.84
19:R2:682:LYS:HG2	19:R2:683:PHE:H	1.41	0.84
24:W1:526:ARG:C	24:W1:744:VAL:N	2.31	0.84
25:X2:637:LEU:O	25:X2:641:VAL:HG23	1.75	0.84
25:X2:692:LYS:CD	27:Z2:10:LEU:CB	2.56	0.84
25:X2:777:ASN:OD1	26:Y2:1369:PHE:CE1	2.31	0.84
25:X2:778:LYS:O	25:X2:790:ASN:CG	2.07	0.84
26:Y1:1230:GLU:HG3	26:Y1:1233:ARG:NH2	1.91	0.84
26:Y1:1387:LYS:HE3	26:Y2:1361:GLU:CD	1.96	0.84
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:N	2.45	0.84
27:Z1:263:TRP:HZ3	27:Z1:265:SER:CB	1.91	0.84
27:Z1:297:TYR:CD2	27:Z1:321:ASP:CG	2.55	0.84
27:Z2:358:ARG:CZ	27:Z2:382:GLN:CD	2.51	0.84
27:Z2:424:PRO:HB2	27:Z2:439:LEU:HD22	1.59	0.84
29:b2:27:ILE:CD1	29:b2:48:GLN:OE1	2.26	0.84
1:A4:827:ILE:CB	1:A4:849:SER:N	2.40	0.83
7:G2:254:ASN:HB3	15:O4:253:LEU:CA	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:806:VAL:HG11	15:O3:247:TRP:CA	2.08	0.83
17:Q1:89:TYR:HD2	17:Q1:90:ILE:HG22	1.43	0.83
18:R1:482:ARG:HB3	18:R1:516:TRP:CZ2	2.12	0.83
25:X1:665:TRP:CZ2	27:Z1:560:LEU:HD21	2.13	0.83
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:HD12	1.60	0.83
26:Y2:1333:ASP:N	27:Z1:109:PHE:CE1	2.45	0.83
26:Y2:1334:LEU:HD22	27:Z1:110:GLN:H	1.42	0.83
27:Z1:189:LYS:O	27:Z1:311:GLN:CD	2.20	0.83
27:Z1:544:THR:HG23	27:Z2:558:PHE:H	1.31	0.83
27:Z2:582:GLU:N	27:Z2:582:GLU:C	2.36	0.83
1:A1:827:ILE:CB	1:A1:849:SER:N	2.40	0.83
1:A3:1084:ARG:CA	4:D3:1095:ARG:CD	2.53	0.83
9:I2:1026:TYR:CZ	13:M3:609:GLY:CA	2.61	0.83
17:Q1:163:GLY:C	17:Q1:164:LEU:HD22	2.03	0.83
17:Q1:552:THR:HA	17:Q1:556:HIS:CB	2.08	0.83
18:R1:477:ARG:O	18:R1:480:THR:HG22	1.78	0.83
25:X1:662:ILE:CD1	27:Z1:549:ILE:CG2	2.53	0.83
25:X2:662:ILE:HD11	27:Z2:549:ILE:CG2	2.07	0.83
27:Z1:188:SER:HG	27:Z1:195:TYR:HE2	1.08	0.83
27:Z2:129:LYS:HZ3	27:Z2:185:LEU:HB2	1.37	0.83
27:Z2:133:HIS:ND1	27:Z2:211:PHE:HE1	1.76	0.83
27:Z2:642:ASN:ND2	27:Z2:646:HIS:CE1	2.46	0.83
29:b2:75:HIS:CE1	29:b2:90:LYS:CD	2.60	0.83
6:F1:154:SER:HB2	9:I1:1344:GLN:HG3	1.58	0.83
9:I1:1051:LYS:CE	14:N1:290:VAL:HA	2.09	0.83
9:I2:888:GLU:OE2	13:M3:597:LYS:CG	2.26	0.83
9:I2:967:SER:O	16:P3:149:ARG:HB2	1.78	0.83
9:I2:1035:GLN:OE1	16:P3:142:LEU:C	2.22	0.83
9:I2:1254:VAL:CA	14:N3:408:MET:O	2.26	0.83
17:Q1:211:MET:O	17:Q1:212:LEU:HD22	1.78	0.83
17:Q1:332:LYS:HB3	17:Q1:352:TYR:CE2	2.13	0.83
17:Q1:382:ARG:N	17:Q1:512:ILE:CG1	2.35	0.83
17:Q1:700:GLU:CG	17:Q1:758:ILE:HG12	2.07	0.83
17:Q2:332:LYS:HB3	17:Q2:352:TYR:CE2	2.13	0.83
17:Q2:904:LYS:O	17:Q2:908:VAL:HG23	1.78	0.83
17:Q2:960:ILE:HD11	17:Q2:1005:LEU:HD12	1.61	0.83
18:R1:482:ARG:HB3	18:R1:516:TRP:CE2	2.13	0.83
19:R2:699:ASP:HB3	19:R2:701:ILE:HG13	1.60	0.83
27:Z1:328:PHE:HE2	27:Z1:349:VAL:HG12	1.42	0.83
27:Z2:117:ASP:HB2	27:Z2:124:LYS:NZ	1.93	0.83
29:b1:71:HIS:HB3	29:b1:76:PHE:CD1	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1328:ARG:NH2	4:D1:898:ASP:CB	2.41	0.83
1:A3:1332:ARG:HH11	4:D3:899:THR:CG2	1.89	0.83
6:F1:134:ASP:CG	9:I1:1388:GLU:OE1	2.22	0.83
9:I2:1165:SER:CB	15:O3:269:ILE:HD12	2.08	0.83
17:Q1:725:PHE:HB2	17:Q1:744:LYS:CE	2.08	0.83
17:Q1:890:GLN:HA	17:Q1:890:GLN:HE21	1.43	0.83
17:Q2:922:LEU:HD13	19:R2:688:LEU:C	2.04	0.83
25:X2:695:GLN:NE2	27:Z2:431:TRP:NE1	2.12	0.83
25:X2:695:GLN:HE22	27:Z2:429:ILE:HG23	1.42	0.83
26:Y2:1211:LEU:C	26:Y2:1215:GLU:CG	2.51	0.83
26:Y2:1336:THR:HG22	26:Y2:1340:ARG:HD2	1.58	0.83
26:Y2:1409:LEU:CB	27:Z2:711:LYS:NZ	2.25	0.83
27:Z1:328:PHE:HE2	27:Z1:349:VAL:CG1	1.88	0.83
27:Z2:393:LEU:HD23	27:Z2:405:LEU:HD21	0.86	0.83
1:A3:1091:VAL:HG12	4:D3:1100:PRO:HG2	1.57	0.83
9:I1:901:TYR:CE1	13:M1:573:ARG:NH1	2.47	0.83
9:I1:1254:VAL:HG23	15:O1:258:GLU:C	2.03	0.83
9:I2:1051:LYS:HD2	14:N3:289:PHE:HA	1.58	0.83
17:Q2:931:SER:O	17:Q2:934:VAL:HG12	1.77	0.83
18:R1:721:THR:HA	18:R1:724:LEU:HD11	1.59	0.83
19:R2:656:ARG:O	19:R2:660:THR:HG22	1.77	0.83
25:X2:695:GLN:CA	27:Z2:48:VAL:HG11	2.06	0.83
25:X2:700:ILE:O	26:Y2:1298:TYR:OH	1.94	0.83
26:Y1:1305:GLN:OE1	27:Z1:599:MET:HG3	1.77	0.83
27:Z1:582:GLU:N	27:Z1:582:GLU:C	2.37	0.83
1:A3:1327:VAL:HG23	4:D3:872:LEU:HB3	1.61	0.83
7:G1:252:LEU:CD2	15:O2:244:GLU:N	2.40	0.83
17:Q1:60:VAL:HG21	17:Q1:63:GLU:CG	2.08	0.83
17:Q1:699:MET:O	17:Q1:703:THR:HG23	1.77	0.83
25:X1:789:GLU:CD	25:X1:793:LEU:CD1	2.51	0.83
26:Y2:1270:LEU:CD2	27:Z2:564:LEU:HD23	2.07	0.83
26:Y2:1334:LEU:C	27:Z1:108:ALA:HB1	1.86	0.83
27:Z1:57:LEU:HD23	27:Z1:91:MET:HE2	1.60	0.83
27:Z1:133:HIS:ND1	27:Z1:211:PHE:HE1	1.76	0.83
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HG12	2.13	0.83
27:Z2:209:TYR:CE2	27:Z2:334:SER:C	2.57	0.83
27:Z2:325:ILE:CG2	27:Z2:350:LEU:HD11	1.92	0.83
27:Z2:434:GLN:CG	27:Z2:580:LYS:NZ	2.41	0.83
1:A1:827:ILE:CD1	1:A1:849:SER:CA	2.57	0.83
1:A3:1402:ASP:HB2	4:D3:821:GLU:OE2	1.79	0.83
6:F1:153:LEU:CB	9:I1:1395:LEU:HD21	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:253:SER:CA	15:O2:243:LEU:CD2	2.55	0.83
9:I1:909:ARG:CD	15:O1:205:ARG:NH2	2.39	0.83
9:I1:980:ILE:HG13	15:O1:172:ALA:HA	1.61	0.83
17:Q1:904:LYS:O	17:Q1:908:VAL:HG23	1.78	0.83
18:R1:409:LYS:HZ1	18:R1:448:ILE:N	1.76	0.83
24:W2:293:LEU:HD13	24:W2:297:LEU:HD12	1.59	0.83
26:Y2:1334:LEU:HD13	27:Z1:108:ALA:N	1.67	0.83
26:Y2:1365:ILE:O	26:Y2:1383:ALA:N	1.98	0.83
27:Z1:84:ASN:O	27:Z1:127:ILE:CG1	2.26	0.83
27:Z1:216:LEU:HG	27:Z1:272:ILE:HD11	1.31	0.83
27:Z1:358:ARG:CZ	27:Z1:382:GLN:CD	2.51	0.83
27:Z2:84:ASN:O	27:Z2:127:ILE:CG1	2.27	0.83
27:Z2:94:PRO:CB	27:Z2:109:PHE:HZ	1.88	0.83
27:Z2:209:TYR:CD2	27:Z2:335:MET:HA	2.12	0.83
27:Z2:282:GLN:OE1	27:Z2:333:MET:CE	2.27	0.83
1:A2:1228:TYR:OH	1:A1:642:ARG:CG	2.25	0.83
1:A3:1332:ARG:CD	4:D3:899:THR:HG23	1.85	0.83
1:A3:1400:SER:H	4:D3:869:THR:HG21	1.42	0.83
9:I1:1038:ILE:HG12	15:O1:179:LEU:HD13	1.22	0.83
9:I2:895:ARG:NH2	13:M3:589:GLY:N	2.14	0.83
9:I2:976:ARG:CD	14:N3:293:LYS:O	2.26	0.83
10:J1:248:VAL:CG2	15:O1:273:ASP:OD2	2.18	0.83
17:Q1:194:HIS:HB3	17:Q1:242:LEU:CD2	2.09	0.83
17:Q1:381:TYR:O	17:Q1:512:ILE:CG1	2.25	0.83
18:R1:682:LYS:HG2	18:R1:683:PHE:H	1.41	0.83
19:R2:531:ILE:O	19:R2:535:ARG:HG3	1.79	0.83
22:U1:299:GLU:HB3	27:Z1:652:GLN:HB3	1.57	0.83
25:X2:775:THR:HG23	25:X2:794:ILE:HD13	1.60	0.83
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:HD1	1.08	0.83
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HE2	1.92	0.83
27:Z1:209:TYR:CD2	27:Z1:335:MET:HA	2.12	0.83
27:Z1:393:LEU:HD23	27:Z1:405:LEU:HD21	0.86	0.83
27:Z1:642:ASN:ND2	27:Z1:646:HIS:CE1	2.46	0.83
27:Z2:131:LEU:HD12	27:Z2:187:PHE:CE2	2.14	0.83
1:A2:1224:PRO:HG3	1:A1:595:GLU:HG3	1.58	0.83
1:A3:1332:ARG:NE	4:D3:899:THR:HG22	1.93	0.83
9:I1:979:ALA:H	15:O1:176:ARG:HA	1.43	0.83
9:I2:904:GLU:CD	15:O3:235:ASN:HD22	1.87	0.83
9:I2:964:SER:H	16:P3:152:LYS:HB2	1.29	0.83
9:I2:1049:LEU:CB	16:P3:141:ALA:HB3	1.85	0.83
9:I2:1157:LEU:HD23	15:O3:263:GLN:CA	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:520:ILE:HD12	17:Q2:574:ASN:HB3	1.59	0.83
17:Q2:552:THR:HA	17:Q2:556:HIS:CB	2.08	0.83
25:X1:752:ASP:OD1	26:Y1:1345:LEU:CD1	2.27	0.83
25:X2:692:LYS:CG	27:Z2:431:TRP:HZ2	1.44	0.83
27:Z1:124:LYS:HD2	27:Z1:126:SER:H	1.41	0.83
29:b1:10:ILE:O	29:b1:79:PHE:HB2	1.78	0.83
6:F2:132:THR:HG23	9:I2:1334:PRO:HA	1.58	0.83
9:I1:843:GLU:HB2	13:M1:535:GLU:HG3	1.61	0.83
9:I1:900:ARG:CA	13:M1:580:LYS:HD3	2.09	0.83
9:I1:921:GLU:CB	15:O1:187:ASN:CA	2.49	0.83
9:I2:928:LEU:CA	15:O3:179:LEU:HD22	2.09	0.83
17:Q1:382:ARG:NH1	17:Q1:512:ILE:O	2.12	0.83
17:Q1:847:LEU:HD13	17:Q1:879:ALA:CB	2.09	0.83
17:Q1:1138:GLY:O	17:Q1:1142:LYS:HG3	1.79	0.83
17:Q2:60:VAL:CG2	17:Q2:68:ILE:HD11	2.08	0.83
17:Q2:89:TYR:HD2	17:Q2:90:ILE:HG22	1.43	0.83
17:Q2:934:VAL:HG13	17:Q2:936:LYS:HG3	1.61	0.83
18:R1:453:GLU:HG3	18:R1:454:ASP:H	1.42	0.83
18:R1:699:ASP:HB3	18:R1:701:ILE:HG13	1.60	0.83
22:U1:296:LEU:HG	27:Z1:654:ASP:N	1.94	0.83
25:X2:695:GLN:N	27:Z2:431:TRP:HE3	1.77	0.83
25:X2:777:ASN:HB3	25:X2:793:LEU:HB3	1.61	0.83
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:HB2	1.57	0.83
27:Z1:81:CYS:HB2	27:Z1:132:PHE:CZ	2.14	0.83
27:Z1:172:SER:OG	27:Z1:177:ALA:CB	2.26	0.83
27:Z1:252:GLN:HB3	27:Z1:335:MET:SD	2.18	0.83
27:Z1:381:ILE:CG2	27:Z1:417:ILE:CD1	2.28	0.83
27:Z2:252:GLN:HB3	27:Z2:335:MET:SD	2.18	0.83
7:G2:254:ASN:OD1	15:O4:252:VAL:HA	1.78	0.82
9:I1:977:ASN:CB	15:O1:177:HIS:N	2.39	0.82
17:Q1:276:LEU:HD12	17:Q1:296:GLN:HG3	1.59	0.82
17:Q2:60:VAL:HG21	17:Q2:63:GLU:CG	2.08	0.82
17:Q2:163:GLY:C	17:Q2:164:LEU:HD22	2.03	0.82
17:Q2:610:LEU:HD11	17:Q2:613:ILE:HD12	1.61	0.82
17:Q2:616:LYS:HG2	17:Q2:630:THR:HG21	1.59	0.82
27:Z1:131:LEU:HD12	27:Z1:187:PHE:CE2	2.14	0.82
27:Z1:641:PHE:C	27:Z1:641:PHE:H	1.87	0.82
27:Z2:69:PHE:HD1	27:Z2:84:ASN:CG	1.71	0.82
27:Z2:641:PHE:C	27:Z2:641:PHE:H	1.87	0.82
29:b2:72:GLU:HG3	29:b2:75:HIS:ND1	1.91	0.82
29:b2:77:VAL:O	29:b2:77:VAL:CG2	2.18	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1221:ILE:CG1	1:A1:596:ARG:HG2	2.04	0.82
9:I2:916:ALA:HB1	15:O3:189:ARG:O	1.02	0.82
17:Q1:210:LEU:HD13	17:Q1:211:MET:N	1.94	0.82
17:Q1:516:LEU:HB2	17:Q1:517:PRO:HD3	1.61	0.82
18:R1:531:ILE:O	18:R1:535:ARG:HG3	1.79	0.82
25:X2:695:GLN:HB3	27:Z2:48:VAL:CB	2.06	0.82
25:X2:695:GLN:HE21	27:Z2:431:TRP:CG	1.96	0.82
25:X2:752:ASP:OD1	26:Y2:1345:LEU:CD1	2.27	0.82
27:Z1:57:LEU:HD21	27:Z1:109:PHE:HD2	1.43	0.82
27:Z1:217:LEU:CD2	27:Z1:269:LYS:CG	2.45	0.82
27:Z1:325:ILE:HG21	27:Z1:350:LEU:HD13	1.61	0.82
27:Z2:57:LEU:HD23	27:Z2:91:MET:HE2	1.60	0.82
27:Z2:137:TYR:CG	27:Z2:215:VAL:HG11	2.07	0.82
27:Z2:172:SER:OG	27:Z2:177:ALA:CB	2.26	0.82
27:Z2:234:TYR:HB2	27:Z2:253:LEU:HD11	0.86	0.82
27:Z2:634:ILE:HG22	27:Z2:638:ILE:HD12	1.60	0.82
29:b1:7:SER:C	29:b1:7:SER:N	2.38	0.82
1:A2:1332:ARG:HG3	4:D1:905:SER:HB2	1.61	0.82
1:A4:712:THR:HG21	4:D3:969:HIS:HB3	1.62	0.82
6:F1:267:GLU:OE1	9:I1:1202:VAL:HG11	1.79	0.82
9:I1:1667:GLN:CG	9:I2:1669:ARG:N	2.42	0.82
9:I2:963:LEU:CD1	16:P3:148:ALA:O	2.28	0.82
17:Q1:715:LEU:HD21	17:Q1:751:TYR:HE1	1.44	0.82
17:Q1:740:GLU:HG2	17:Q1:744:LYS:HE2	1.61	0.82
17:Q2:725:PHE:HB2	17:Q2:744:LYS:CE	2.08	0.82
17:Q2:1138:GLY:O	17:Q2:1142:LYS:HG3	1.79	0.82
25:X2:686:ALA:C	27:Z2:8:SER:CB	2.52	0.82
26:Y1:1123:GLN:N	29:b2:39:ARG:HD2	1.65	0.82
27:Z1:173:PHE:CE2	28:a2:1106:VAL:HG11	2.15	0.82
27:Z1:223:LEU:HD12	27:Z1:263:TRP:CE2	2.14	0.82
27:Z1:404:PRO:O	27:Z2:271:ASP:OD2	1.96	0.82
27:Z2:289:PRO:HD2	27:Z2:350:LEU:CB	2.10	0.82
29:b2:76:PHE:CE1	29:b2:89:PHE:HB3	2.13	0.82
9:I1:1050:SER:OG	14:N1:293:LYS:HG3	1.79	0.82
9:I1:1246:ILE:HG12	15:O1:255:GLY:HA3	0.83	0.82
17:Q1:616:LYS:HG2	17:Q1:630:THR:HG21	1.59	0.82
25:X2:665:TRP:CZ2	27:Z2:560:LEU:HD21	2.13	0.82
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:H	1.77	0.82
26:Y1:1386:ALA:HB3	26:Y2:1361:GLU:N	1.93	0.82
26:Y1:1399:ILE:HG23	27:Z1:701:LEU:HD23	1.58	0.82
26:Y1:1429:LYS:HD3	26:Y1:1434:PHE:CE1	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1454:LYS:CE	27:Z1:349:VAL:HG22	2.07	0.82
27:Z1:129:LYS:CD	27:Z1:145:LEU:HD23	2.00	0.82
27:Z1:164:ILE:HD13	27:Z1:277:ARG:HH12	1.41	0.82
27:Z1:197:LEU:O	27:Z1:198:ASN:HA	1.79	0.82
27:Z1:431:TRP:HD1	27:Z1:436:ASN:HD21	1.27	0.82
27:Z2:197:LEU:O	27:Z2:198:ASN:HA	1.79	0.82
27:Z2:307:ILE:HG22	27:Z2:307:ILE:O	1.78	0.82
9:I1:896:PRO:CA	13:M1:580:LYS:HA	2.10	0.82
9:I1:908:ARG:HD3	13:M1:548:LEU:O	1.79	0.82
9:I1:910:LYS:CA	13:M1:545:GLU:HG2	1.98	0.82
9:I1:966:TRP:NE1	15:O1:183:VAL:CG1	2.42	0.82
9:I2:909:ARG:HB3	13:M3:580:LYS:CE	2.10	0.82
9:I2:1034:ASP:CA	15:O3:284:LYS:HE2	2.10	0.82
9:I2:1051:LYS:HD2	14:N3:289:PHE:CA	2.09	0.82
9:I2:1168:ALA:CB	15:O3:269:ILE:HG22	2.09	0.82
9:I2:1253:GLY:CA	14:N3:409:ALA:H	1.86	0.82
9:I2:1370:VAL:HG22	10:J2:259:THR:HG21	1.61	0.82
17:Q1:678:TYR:O	17:Q1:681:ILE:HG22	1.79	0.82
17:Q2:194:HIS:HB3	17:Q2:242:LEU:CD2	2.09	0.82
17:Q2:715:LEU:HD21	17:Q2:751:TYR:HE1	1.44	0.82
17:Q2:922:LEU:HD21	19:R2:688:LEU:HB3	0.84	0.82
22:U1:292:LEU:O	25:X1:802:ASP:OD2	1.97	0.82
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG22	1.92	0.82
27:Z1:35:ILE:HD11	27:Z1:429:ILE:HD12	0.82	0.82
27:Z1:209:TYR:CE2	27:Z1:334:SER:C	2.57	0.82
27:Z1:289:PRO:HD2	27:Z1:350:LEU:CB	2.10	0.82
27:Z1:307:ILE:HG22	27:Z1:307:ILE:O	1.78	0.82
27:Z1:690:ASP:O	27:Z1:694:ILE:HG13	1.80	0.82
27:Z2:234:TYR:CB	27:Z2:253:LEU:CD1	2.49	0.82
27:Z2:437:LEU:HG	27:Z2:450:ILE:CG1	2.09	0.82
1:A2:1224:PRO:CB	1:A1:648:TYR:OH	2.26	0.82
9:I1:910:LYS:O	13:M1:545:GLU:CD	2.23	0.82
9:I1:965:ALA:CB	15:O1:185:ALA:N	2.38	0.82
9:I1:1050:SER:HG	14:N1:293:LYS:C	1.88	0.82
9:I2:913:ALA:O	15:O3:194:GLU:HA	1.80	0.82
17:Q1:916:SER:HB2	17:Q1:919:GLU:HG2	1.59	0.82
17:Q1:934:VAL:HG13	17:Q1:936:LYS:HG3	1.60	0.82
17:Q2:916:SER:HB2	17:Q2:919:GLU:HG2	1.59	0.82
19:R2:543:VAL:HG11	19:R2:594:ILE:HD13	1.60	0.82
22:U1:209:PRO:CD	27:Z1:658:LEU:O	2.28	0.82
26:Y2:1212:ARG:NE	26:Y2:1213:LEU:HA	1.89	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:204:ASP:OD2	27:Z1:284:PRO:HB2	1.80	0.82
1:A3:1221:ILE:C	1:A4:595:GLU:CG	2.48	0.82
1:A4:442:ARG:NH2	4:D3:1022:PRO:HG2	1.94	0.82
4:D1:672:SER:OG	1:A1:1094:ILE:HD12	1.78	0.82
9:I1:924:ILE:HG12	15:O1:187:ASN:ND2	1.94	0.82
9:I1:963:LEU:CD1	16:P1:152:LYS:CD	2.55	0.82
9:I1:978:LYS:HZ2	15:O1:184:ARG:NH2	1.76	0.82
10:J1:248:VAL:HG13	15:O1:273:ASP:HA	1.62	0.82
17:Q2:211:MET:O	17:Q2:212:LEU:HD22	1.78	0.82
17:Q2:276:LEU:HD12	17:Q2:296:GLN:HG3	1.59	0.82
25:X1:665:TRP:CE2	25:X1:669:LEU:HD11	2.14	0.82
25:X2:665:TRP:NE1	26:Y2:1267:GLU:HB3	1.79	0.82
25:X2:777:ASN:CA	25:X2:793:LEU:HB3	2.09	0.82
25:X2:821:ILE:HA	27:Z1:276:TYR:HE2	1.45	0.82
25:X2:823:LYS:CD	27:Z1:272:ILE:HG13	2.10	0.82
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:CA	2.58	0.82
27:Z1:26:ILE:H	27:Z1:440:MET:CE	1.92	0.82
27:Z2:81:CYS:HB2	27:Z2:132:PHE:CZ	2.14	0.82
27:Z2:173:PHE:CE2	28:a1:1106:VAL:HG11	2.14	0.82
27:Z2:434:GLN:CD	27:Z2:580:LYS:HE3	2.04	0.82
1:A2:1221:ILE:CD1	1:A1:600:LYS:HE2	1.78	0.82
6:F1:135:VAL:CA	9:I1:1392:VAL:HG21	2.09	0.82
9:I2:899:LEU:HB3	13:M3:581:LEU:C	2.04	0.82
9:I2:904:GLU:C	13:M3:577:LEU:HD11	1.72	0.82
9:I2:928:LEU:HA	15:O3:179:LEU:HD22	1.60	0.82
9:I2:1048:GLU:CD	14:N3:293:LYS:CB	2.44	0.82
9:I2:1307:LEU:HB2	14:N3:414:ALA:C	1.99	0.82
17:Q1:827:THR:HA	17:Q1:830:SER:HB2	1.60	0.82
17:Q2:516:LEU:HB2	17:Q2:517:PRO:HD3	1.61	0.82
18:R1:537:PHE:HB2	18:R1:546:LEU:HD21	1.61	0.82
22:U1:289:GLN:OE1	25:X1:794:ILE:CG1	2.15	0.82
25:X2:637:LEU:C	25:X2:641:VAL:HG23	2.04	0.82
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CG	2.58	0.82
26:Y2:1338:GLN:O	27:Z2:630:TRP:HH2	0.93	0.82
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:CG	1.91	0.82
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:CA	2.57	0.82
27:Z1:343:VAL:CG1	27:Z1:346:ASN:ND2	2.43	0.82
27:Z1:381:ILE:HG22	27:Z1:417:ILE:HD11	0.84	0.82
27:Z1:437:LEU:HG	27:Z1:450:ILE:CG1	2.09	0.82
27:Z2:252:GLN:HA	27:Z2:335:MET:CE	2.09	0.82
29:b1:56:THR:C	29:b1:56:THR:HB	2.02	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1401:VAL:HA	4:D3:873:GLN:HE22	1.43	0.82
9:I1:978:LYS:HE3	15:O1:180:ASP:OD1	1.80	0.82
9:I2:899:LEU:HA	13:M3:580:LYS:C	2.05	0.82
9:I2:1102:GLN:CG	15:O3:269:ILE:O	2.28	0.82
10:J1:250:THR:N	15:O1:276:GLY:O	2.13	0.82
13:M3:473:ARG:CZ	13:M4:540:TRP:CD2	2.48	0.82
17:Q1:610:LEU:HD11	17:Q1:613:ILE:HD12	1.61	0.82
17:Q1:872:ILE:O	17:Q1:876:GLN:HG2	1.80	0.82
17:Q2:615:GLU:HB2	17:Q2:645:ILE:HG21	1.61	0.82
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CD1	2.55	0.82
25:X2:699:TYR:CA	27:Z2:49:LEU:HD13	2.10	0.82
26:Y1:1431:MET:HA	26:Y1:1434:PHE:HD2	1.12	0.82
26:Y2:1435:LYS:HZ1	27:Z2:225:LEU:HD23	1.01	0.82
29:b1:42:ALA:HB1	29:b1:59:VAL:HG23	1.62	0.82
29:b1:61:VAL:HG22	29:b1:86:PHE:CD2	2.15	0.82
1:A2:1201:ARG:CB	1:A1:647:GLU:HB3	2.09	0.82
1:A4:827:ILE:CD1	1:A4:849:SER:CA	2.56	0.82
4:D1:673:LEU:HD11	1:A1:1094:ILE:HG12	0.87	0.82
9:I2:921:GLU:N	16:P3:157:GLU:CD	2.37	0.82
17:Q2:419:MET:HE1	17:Q2:465:LEU:HD11	1.61	0.82
17:Q2:1043:ARG:HG3	17:Q2:1120:VAL:HG21	1.62	0.82
18:R1:444:ALA:HA	18:R1:447:PHE:HD2	1.44	0.82
19:R2:537:PHE:HB2	19:R2:546:LEU:HD21	1.60	0.82
22:U1:243:PHE:CG	27:Z1:657:TYR:CA	2.43	0.82
22:U1:243:PHE:CG	27:Z1:660:SER:OG	2.32	0.82
22:U1:339:PHE:HB2	27:Z1:653:GLN:OE1	1.79	0.82
25:X1:648:LEU:HD13	27:Z2:547:VAL:HG12	1.62	0.82
25:X2:778:LYS:HZ3	25:X2:795:LYS:CE	1.89	0.82
25:X2:788:ASP:N	25:X2:788:ASP:C	0.72	0.82
26:Y2:1125:ASP:C	26:Y2:1125:ASP:CB	2.52	0.82
26:Y2:1316:GLU:CD	27:Z2:609:LEU:CD2	2.52	0.82
27:Z1:282:GLN:OE1	27:Z1:333:MET:CE	2.27	0.82
27:Z2:27:PHE:HE2	27:Z2:36:VAL:CG2	1.56	0.82
27:Z2:35:ILE:CG2	27:Z2:46:TYR:CE2	2.63	0.82
27:Z2:209:TYR:CE2	27:Z2:335:MET:N	2.47	0.82
1:A2:1221:ILE:N	1:A1:596:ARG:HA	1.95	0.81
9:I1:908:ARG:CD	15:O1:209:LEU:HD13	2.10	0.81
9:I1:961:ARG:HH11	15:O1:190:ARG:N	1.78	0.81
9:I2:1308:THR:HB	14:N3:414:ALA:N	1.95	0.81
17:Q1:294:THR:HG23	17:Q1:307:LEU:HB2	1.62	0.81
17:Q1:382:ARG:NE	17:Q1:510:ASN:CA	2.06	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:430:ASN:ND2	17:Q1:439:MET:HB2	1.95	0.81
17:Q2:100:ASN:CG	17:Q2:105:VAL:HG22	2.06	0.81
18:R1:524:VAL:O	18:R1:527:VAL:HG22	1.80	0.81
18:R1:634:PHE:CZ	18:R1:635:LEU:HG	2.15	0.81
22:U1:289:GLN:CD	25:X1:794:ILE:CG2	2.52	0.81
25:X2:665:TRP:HE3	27:Z2:556:GLN:NE2	1.76	0.81
25:X2:690:GLN:CD	27:Z2:577:LEU:HB3	2.02	0.81
25:X2:699:TYR:N	27:Z2:49:LEU:HD13	1.95	0.81
26:Y1:1211:LEU:HB3	26:Y1:1214:ILE:HB	1.61	0.81
26:Y1:1409:LEU:CB	27:Z1:711:LYS:NZ	2.25	0.81
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CG	2.58	0.81
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:CD	2.10	0.81
26:Y2:1443:MET:HE1	27:Z2:332:GLU:CD	1.73	0.81
1:A2:1221:ILE:HD12	1:A1:600:LYS:HE2	0.81	0.81
6:F1:166:THR:HB	9:I1:1331:LYS:HZ2	1.45	0.81
9:I1:909:ARG:NE	15:O1:205:ARG:NH2	2.27	0.81
9:I1:1357:LYS:NZ	15:O1:263:GLN:CB	2.36	0.81
9:I2:1099:ARG:NH2	13:M3:610:SER:CA	2.34	0.81
9:I2:1157:LEU:CD2	15:O3:263:GLN:CA	2.58	0.81
17:Q1:88:GLY:HA3	17:Q1:100:ASN:H	1.44	0.81
17:Q1:178:ILE:O	17:Q1:181:ILE:HG12	1.80	0.81
17:Q1:696:LEU:HD13	17:Q1:700:GLU:HG3	1.62	0.81
17:Q2:426:ILE:HG21	17:Q2:477:PHE:CE2	2.15	0.81
17:Q2:801:CYS:SG	17:Q2:818:LEU:HD12	2.20	0.81
20:S1:571:ALA:CB	21:T1:86:ASN:ND2	2.34	0.81
20:S2:574:THR:N	21:T2:86:ASN:ND2	2.27	0.81
22:U1:207:LYS:N	27:Z1:665:ILE:N	2.25	0.81
1:A2:1226:LEU:HD23	1:A1:647:GLU:HB2	1.63	0.81
1:A2:1240:HIS:NE2	4:D1:1033:PRO:HG3	1.94	0.81
1:A2:1328:ARG:CD	4:D1:976:ARG:CD	2.58	0.81
1:A3:1223:GLU:O	1:A4:594:LEU:CG	2.28	0.81
1:A3:1332:ARG:NH2	4:D3:902:SER:C	2.38	0.81
1:A3:1402:ASP:HB3	4:D3:821:GLU:OE1	1.81	0.81
9:I1:754:ARG:NH2	13:M1:552:TYR:CE2	2.48	0.81
9:I1:980:ILE:CD1	15:O1:172:ALA:HA	2.09	0.81
9:I1:1048:GLU:OE2	15:O1:170:LEU:CB	2.27	0.81
9:I1:1315:GLN:HG2	15:O1:269:ILE:N	1.90	0.81
9:I1:1667:GLN:HG2	9:I2:1669:ARG:CA	2.08	0.81
9:I2:964:SER:CA	16:P3:149:ARG:CA	2.18	0.81
9:I2:1255:HIS:CG	14:N3:407:ALA:HB3	1.93	0.81
17:Q1:885:VAL:O	17:Q1:888:ILE:HG22	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:960:ILE:HD11	17:Q1:1005:LEU:HD12	1.61	0.81
17:Q1:1043:ARG:HG3	17:Q1:1120:VAL:HG21	1.62	0.81
17:Q2:678:TYR:O	17:Q2:681:ILE:HG22	1.79	0.81
17:Q2:885:VAL:O	17:Q2:888:ILE:HG22	1.79	0.81
18:R1:543:VAL:HG11	18:R1:594:ILE:HD13	1.60	0.81
19:R2:524:VAL:O	19:R2:527:VAL:HG22	1.80	0.81
22:U1:206:ALA:HA	27:Z1:665:ILE:HG13	1.61	0.81
22:U1:207:LYS:HD2	27:Z1:663:THR:O	1.00	0.81
25:X1:644:TRP:CZ3	26:Y1:1225:PHE:CB	2.58	0.81
25:X2:697:LEU:O	25:X2:701:GLU:CG	2.26	0.81
26:Y1:1387:LYS:CE	26:Y2:1361:GLU:CD	2.50	0.81
26:Y2:1285:ASN:O	26:Y2:1289:GLN:CG	2.26	0.81
27:Z1:35:ILE:CB	27:Z1:46:TYR:CZ	2.62	0.81
27:Z1:46:TYR:CE1	27:Z1:48:VAL:CG2	2.63	0.81
27:Z1:133:HIS:HE1	27:Z1:211:PHE:HD1	1.29	0.81
27:Z1:189:LYS:C	27:Z1:311:GLN:OE1	2.19	0.81
27:Z1:209:TYR:CE2	27:Z1:335:MET:N	2.48	0.81
27:Z2:13:PHE:HD1	27:Z2:445:LEU:CD2	1.92	0.81
27:Z2:35:ILE:HD11	27:Z2:429:ILE:HD12	0.82	0.81
27:Z2:198:ASN:N	27:Z2:198:ASN:CB	2.43	0.81
27:Z2:263:TRP:HZ3	27:Z2:265:SER:HB3	1.43	0.81
27:Z2:437:LEU:HG	27:Z2:450:ILE:HD11	0.82	0.81
27:Z2:449:ASN:ND2	27:Z2:576:ASP:HB3	1.93	0.81
7:G1:252:LEU:HD23	15:O2:244:GLU:HA	1.61	0.81
9:I1:897:GLU:HA	13:M1:580:LYS:HG3	1.20	0.81
9:I1:900:ARG:H	13:M1:580:LYS:HD2	1.38	0.81
9:I2:1160:ILE:HG21	15:O3:264:ILE:CA	2.08	0.81
17:Q1:200:ILE:H	17:Q1:200:ILE:HD13	1.46	0.81
17:Q1:615:GLU:HB2	17:Q1:645:ILE:HG21	1.61	0.81
17:Q2:63:GLU:HG2	17:Q2:68:ILE:CG1	2.11	0.81
25:X2:665:TRP:CE2	25:X2:669:LEU:HD11	2.14	0.81
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CE3	2.65	0.81
26:Y1:1368:LEU:O	26:Y1:1372:LYS:HB2	1.80	0.81
27:Z1:26:ILE:CB	27:Z1:440:MET:HE1	1.89	0.81
27:Z2:343:VAL:CG1	27:Z2:346:ASN:ND2	2.43	0.81
29:b2:9:PRO:N	29:b2:29:LYS:HZ1	1.78	0.81
1:A3:1221:ILE:N	1:A4:595:GLU:HB3	1.94	0.81
9:I2:1255:HIS:HD2	14:N3:407:ALA:CB	0.66	0.81
17:Q1:228:ILE:HG12	17:Q1:249:ASN:CB	2.11	0.81
17:Q2:674:ASN:OD1	17:Q2:746:VAL:HG13	1.81	0.81
17:Q2:1109:ILE:O	17:Q2:1112:GLU:HG3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:296:LEU:CA	27:Z1:657:TYR:N	2.40	0.81
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:HG12	2.02	0.81
27:Z1:234:TYR:HB2	27:Z1:253:LEU:HD11	0.86	0.81
27:Z2:137:TYR:CE2	27:Z2:215:VAL:O	2.29	0.81
27:Z2:216:LEU:HG	27:Z2:272:ILE:HD11	1.31	0.81
29:b1:16:ILE:HG13	29:b1:21:LYS:HG3	1.29	0.81
1:A3:1332:ARG:NH1	4:D3:899:THR:CG2	2.44	0.81
6:F1:982:PRO:CB	9:I1:1455:ARG:HB3	2.11	0.81
9:I1:1046:HIS:CE1	15:O1:168:ALA:CA	2.62	0.81
9:I1:1359:ASP:CG	15:O1:264:ILE:HA	2.03	0.81
9:I2:1030:ARG:HD2	13:M3:608:LYS:HB3	1.61	0.81
9:I2:1048:GLU:CG	14:N3:293:LYS:HB2	2.09	0.81
17:Q1:642:PHE:HB3	17:Q1:643:PRO:HD3	1.63	0.81
19:R2:510:LEU:HB3	19:R2:533:LEU:HD13	1.63	0.81
25:X2:777:ASN:CA	25:X2:793:LEU:CB	2.59	0.81
26:Y1:1294:LYS:HE3	27:Z1:588:TRP:NE1	1.96	0.81
26:Y1:1382:VAL:O	26:Y2:1364:ASN:CB	2.22	0.81
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:H	1.77	0.81
26:Y2:1321:MET:HB3	27:Z1:51:ASP:N	1.93	0.81
27:Z1:244:ILE:CG1	27:Z1:344:TYR:OH	2.24	0.81
27:Z1:287:ILE:HD11	27:Z1:348:LEU:HD12	1.60	0.81
27:Z1:634:ILE:HG22	27:Z1:638:ILE:HD12	1.60	0.81
27:Z2:57:LEU:HD21	27:Z2:109:PHE:HD2	1.43	0.81
27:Z2:149:ASP:CG	27:Z2:182:ILE:CB	2.53	0.81
27:Z2:241:THR:CB	27:Z2:246:LYS:CE	2.20	0.81
9:I1:838:GLU:CB	15:O1:198:ARG:NH2	2.28	0.81
9:I1:911:PRO:CD	15:O1:202:LEU:CG	2.58	0.81
9:I1:1370:VAL:HG22	10:J1:259:THR:HG21	1.61	0.81
9:I2:1254:VAL:C	14:N3:407:ALA:O	2.23	0.81
17:Q1:419:MET:HE1	17:Q1:465:LEU:HD11	1.61	0.81
17:Q2:890:GLN:HA	17:Q2:890:GLN:HE21	1.43	0.81
22:U1:289:GLN:N	25:X1:798:ASN:CB	2.28	0.81
25:X2:698:GLN:HG3	27:Z2:432:ASN:HA	1.63	0.81
27:Z2:448:GLN:HB2	27:Z2:573:LYS:NZ	1.94	0.81
29:b1:72:GLU:OE2	29:b1:92:ALA:HB2	1.80	0.81
6:F1:138:ILE:HA	9:I1:1391:THR:N	1.95	0.81
9:I1:967:SER:HB3	15:O1:178:ASP:H	1.39	0.81
17:Q1:1109:ILE:O	17:Q1:1112:GLU:HG3	1.80	0.81
17:Q2:385:THR:HG23	17:Q2:444:GLU:OE2	1.81	0.81
17:Q2:919:GLU:OE1	19:R2:683:PHE:CD2	2.34	0.81
19:R2:634:PHE:CZ	19:R2:635:LEU:HG	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:288:LEU:CD1	25:X1:792:GLN:HA	2.10	0.81
23:V1:156:GLU:OE2	23:V1:214:ARG:NH1	2.13	0.81
23:V2:156:GLU:OE2	23:V2:214:ARG:NH1	2.13	0.81
26:Y2:1211:LEU:HD12	26:Y2:1214:ILE:HD13	1.62	0.81
26:Y2:1333:ASP:CA	27:Z1:92:GLU:CB	2.59	0.81
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:CD2	2.10	0.81
27:Z1:149:ASP:CG	27:Z1:182:ILE:CB	2.53	0.81
27:Z2:223:LEU:HD12	27:Z2:263:TRP:CE2	2.15	0.81
9:I1:980:ILE:HD11	15:O1:172:ALA:CA	2.06	0.81
9:I1:1255:HIS:HE1	15:O1:254:ARG:HD2	1.07	0.81
9:I2:907:VAL:O	13:M3:576:LYS:CD	2.12	0.81
17:Q1:210:LEU:HD12	17:Q1:270:LEU:CD1	2.11	0.81
17:Q1:242:LEU:HD23	17:Q1:242:LEU:H	1.46	0.81
17:Q1:887:TRP:HB3	17:Q1:902:THR:CG2	2.11	0.81
26:Y2:1117:TYR:CZ	29:b2:70:THR:O	2.33	0.81
26:Y2:1337:HIS:CE1	27:Z1:111:ILE:HB	1.96	0.81
27:Z1:35:ILE:CG2	27:Z1:46:TYR:CE2	2.63	0.81
27:Z1:198:ASN:N	27:Z1:198:ASN:CB	2.43	0.81
27:Z1:363:LEU:HG	27:Z1:373:LEU:HD11	1.62	0.81
27:Z2:287:ILE:HD11	27:Z2:348:LEU:HD12	1.61	0.81
27:Z2:325:ILE:HG21	27:Z2:350:LEU:HD13	1.61	0.81
29:b1:25:LEU:HD23	29:b1:79:PHE:HE2	1.01	0.81
1:A3:1204:TRP:HE3	1:A4:647:GLU:O	1.62	0.81
1:A3:1223:GLU:CD	1:A4:648:TYR:H	1.89	0.81
1:A3:1401:VAL:CA	4:D3:873:GLN:HE22	1.93	0.81
4:D1:969:HIS:CG	1:A1:711:VAL:HG21	2.16	0.81
9:I2:921:GLU:HB2	16:P3:157:GLU:CD	2.03	0.81
9:I2:1049:LEU:CD1	16:P3:142:LEU:CA	2.59	0.81
10:J1:252:LEU:CD1	15:O1:273:ASP:CG	2.54	0.81
17:Q1:859:ASP:HB3	17:Q1:862:PHE:HB3	1.63	0.81
17:Q2:210:LEU:HD13	17:Q2:211:MET:N	1.94	0.81
17:Q2:820:THR:HG23	17:Q2:821:LEU:HD12	1.63	0.81
17:Q2:872:ILE:O	17:Q2:876:GLN:HG2	1.80	0.81
18:R1:661:PRO:CB	18:R1:710:LYS:HE2	2.11	0.81
26:Y1:1399:ILE:HG23	27:Z1:701:LEU:CD2	2.10	0.81
26:Y2:1369:PHE:CD2	26:Y2:1382:VAL:CB	2.64	0.81
27:Z1:252:GLN:HA	27:Z1:335:MET:CE	2.10	0.81
27:Z2:627:GLU:HB3	27:Z2:631:PHE:HE2	1.46	0.81
29:b2:50:ASP:OD1	29:b2:55:ASN:O	1.98	0.81
1:A3:1399:ARG:HD2	4:D3:866:PHE:CD1	2.14	0.80
1:A4:127:HIS:NE2	4:D3:1006:ASP:O	0.66	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:255:LEU:HD22	15:O2:244:GLU:CB	2.10	0.80
9:I1:900:ARG:CG	13:M1:577:LEU:CA	2.27	0.80
9:I1:908:ARG:HG3	15:O1:209:LEU:HD12	1.61	0.80
9:I2:977:ASN:N	15:O3:174:LEU:HD23	1.62	0.80
17:Q1:232:THR:HG21	17:Q1:300:THR:HG23	1.62	0.80
17:Q1:441:ARG:HH22	17:Q1:508:ASN:HB3	1.45	0.80
17:Q1:545:TYR:CE1	17:Q1:546:ILE:HG23	2.16	0.80
17:Q2:200:ILE:H	17:Q2:200:ILE:HD13	1.46	0.80
17:Q2:985:ASN:O	17:Q2:988:VAL:HG12	1.82	0.80
25:X1:665:TRP:HE3	27:Z1:556:GLN:NE2	1.76	0.80
26:Y2:1230:GLU:HG3	26:Y2:1233:ARG:NH2	1.92	0.80
27:Z1:41:ASN:HD22	27:Z1:60:SER:N	1.57	0.80
27:Z1:182:ILE:CD1	27:Z1:196:CYS:HB3	2.11	0.80
27:Z1:263:TRP:HZ3	27:Z1:265:SER:HB3	1.43	0.80
27:Z1:319:PHE:CZ	27:Z1:325:ILE:HD12	2.16	0.80
1:A1:777:LEU:CD1	1:A1:822:ILE:HD11	2.12	0.80
1:A2:1201:ARG:CD	1:A1:647:GLU:CB	2.58	0.80
1:A3:1327:VAL:C	4:D3:876:SER:CB	2.50	0.80
9:I2:806:VAL:HG13	15:O3:247:TRP:CA	2.10	0.80
17:Q1:100:ASN:CG	17:Q1:105:VAL:HG22	2.06	0.80
17:Q1:674:ASN:HB2	17:Q1:743:LEU:HD21	1.64	0.80
17:Q1:979:SER:HB2	17:Q1:1104:ILE:CG2	2.12	0.80
17:Q2:178:ILE:O	17:Q2:181:ILE:HG12	1.80	0.80
17:Q2:246:LYS:HD3	17:Q2:247:LEU:N	1.96	0.80
17:Q2:294:THR:HG23	17:Q2:307:LEU:HB2	1.62	0.80
17:Q2:545:TYR:CE1	17:Q2:546:ILE:HG23	2.16	0.80
24:W1:530:LYS:O	24:W1:746:CYS:O	1.97	0.80
25:X1:648:LEU:CB	27:Z2:547:VAL:CG1	2.03	0.80
25:X1:665:TRP:CH2	25:X1:669:LEU:CD1	2.63	0.80
25:X2:690:GLN:C	27:Z2:7:LEU:CD2	2.37	0.80
26:Y1:1316:GLU:CD	27:Z1:609:LEU:CD2	2.51	0.80
26:Y2:1123:GLN:NE2	29:b1:37:LEU:CG	2.44	0.80
27:Z2:244:ILE:CG1	27:Z2:344:TYR:OH	2.24	0.80
28:a2:983:SER:HB2	28:a2:986:GLN:HG2	1.63	0.80
29:b1:16:ILE:HG13	29:b1:21:LYS:CE	2.09	0.80
29:b2:29:LYS:HE2	29:b2:81:ILE:CG1	2.11	0.80
1:A3:1223:GLU:HG3	1:A4:647:GLU:HB2	1.62	0.80
1:A4:777:LEU:CD1	1:A4:822:ILE:HD11	2.12	0.80
6:F1:982:PRO:HB2	9:I1:1459:ASN:ND2	1.96	0.80
9:I1:905:ALA:N	13:M1:573:ARG:HD3	1.96	0.80
9:I1:908:ARG:HD2	13:M1:552:TYR:N	1.70	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:920:PHE:N	15:O1:191:ARG:NH2	2.23	0.80
9:I1:1051:LYS:HZ2	14:N1:290:VAL:CB	1.94	0.80
9:I2:906:GLY:HA2	13:M3:573:ARG:CD	1.87	0.80
9:I2:1099:ARG:HH21	13:M3:610:SER:HA	1.46	0.80
17:Q1:382:ARG:NH2	17:Q1:573:LYS:HZ1	1.78	0.80
17:Q1:426:ILE:HG21	17:Q1:477:PHE:CE2	2.15	0.80
17:Q1:610:LEU:HD12	17:Q1:614:TRP:CZ3	2.17	0.80
17:Q1:801:CYS:SG	17:Q1:818:LEU:HD12	2.20	0.80
17:Q2:430:ASN:ND2	17:Q2:439:MET:HB2	1.95	0.80
25:X2:778:LYS:HE2	25:X2:794:ILE:CG1	2.11	0.80
27:Z1:24:ARG:NE	27:Z1:440:MET:CB	2.41	0.80
27:Z1:403:ASN:CB	27:Z2:262:ASN:ND2	2.45	0.80
27:Z2:7:LEU:CD1	27:Z2:581:PHE:CE1	2.62	0.80
27:Z2:197:LEU:HD22	27:Z2:302:ILE:HG23	1.63	0.80
27:Z2:204:ASP:OD2	27:Z2:284:PRO:HB2	1.80	0.80
27:Z2:690:ASP:O	27:Z2:694:ILE:HG13	1.80	0.80
29:b2:56:THR:OG1	29:b2:91:THR:O	1.98	0.80
1:A3:1056:PHE:HZ	4:D3:1104:GLU:N	1.79	0.80
9:I2:899:LEU:HB3	13:M3:581:LEU:CA	2.12	0.80
17:Q1:381:TYR:N	17:Q1:512:ILE:HG13	1.95	0.80
17:Q1:674:ASN:OD1	17:Q1:746:VAL:HG13	1.81	0.80
17:Q2:88:GLY:HA3	17:Q2:100:ASN:H	1.44	0.80
17:Q2:210:LEU:HD12	17:Q2:270:LEU:CD1	2.11	0.80
22:U1:289:GLN:OE1	25:X1:794:ILE:CG2	2.29	0.80
25:X2:665:TRP:CH2	25:X2:669:LEU:CD1	2.63	0.80
25:X2:690:GLN:HA	27:Z2:7:LEU:HD22	1.63	0.80
26:Y2:1333:ASP:HA	27:Z1:92:GLU:HB2	1.62	0.80
26:Y2:1372:LYS:C	26:Y2:1372:LYS:H	1.85	0.80
27:Z1:35:ILE:CD1	27:Z1:429:ILE:HD11	2.12	0.80
27:Z1:303:ALA:HB3	27:Z1:363:LEU:CD2	2.10	0.80
27:Z2:197:LEU:O	27:Z2:198:ASN:CA	2.29	0.80
1:A2:1220:PRO:C	1:A1:599:ARG:CB	2.54	0.80
1:A2:1220:PRO:CA	1:A1:596:ARG:HA	2.12	0.80
6:F1:163:ASP:OD1	9:I1:1331:LYS:HB3	1.79	0.80
6:F1:166:THR:HB	9:I1:1331:LYS:HZ1	1.42	0.80
6:F1:179:GLU:OE2	9:I1:1201:PHE:CD1	2.35	0.80
7:G1:253:SER:OG	13:M2:592:LEU:HD13	1.80	0.80
9:I2:1101:LEU:N	15:O3:272:SER:HB2	1.95	0.80
17:Q2:276:LEU:CD1	17:Q2:296:GLN:HG3	2.11	0.80
17:Q2:740:GLU:HG2	17:Q2:744:LYS:HE2	1.61	0.80
17:Q2:827:THR:HA	17:Q2:830:SER:HB2	1.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:887:TRP:HB3	17:Q2:902:THR:CG2	2.11	0.80
18:R1:718:VAL:O	18:R1:721:THR:HG22	1.82	0.80
25:X2:665:TRP:CZ3	25:X2:669:LEU:CD1	2.65	0.80
25:X2:775:THR:CA	25:X2:794:ILE:HD12	2.11	0.80
26:Y1:1295:VAL:HA	27:Z1:588:TRP:CH2	2.13	0.80
26:Y1:1386:ALA:O	26:Y2:1357:ASN:CB	2.29	0.80
26:Y2:1396:LEU:HD23	26:Y2:1399:ILE:HD12	1.62	0.80
1:A3:1222:ALA:CA	1:A4:598:VAL:HB	2.12	0.80
6:F1:990:GLN:CD	9:I1:1394:ASN:ND2	2.40	0.80
9:I1:909:ARG:H	15:O1:205:ARG:CD	1.94	0.80
9:I1:918:SER:CA	15:O1:193:ALA:HB3	2.12	0.80
9:I2:1036:PRO:HD2	16:P3:144:ASP:N	1.92	0.80
9:I2:1162:TYR:HB3	15:O3:266:GLN:NE2	1.97	0.80
17:Q1:285:ILE:HD13	17:Q1:295:TRP:CD1	2.17	0.80
17:Q1:856:LYS:HB2	17:Q1:859:ASP:CB	2.12	0.80
17:Q1:859:ASP:HB3	17:Q1:862:PHE:HB2	1.62	0.80
17:Q2:528:GLU:O	17:Q2:579:ILE:HG21	1.81	0.80
22:U1:340:LYS:HE3	27:Z1:642:ASN:HD21	1.47	0.80
25:X1:815:GLU:HG3	26:Y1:1402:LEU:CD2	1.87	0.80
25:X2:686:ALA:HA	27:Z2:8:SER:CB	2.11	0.80
27:Z1:178:ARG:HH21	27:Z1:280:LYS:CD	1.95	0.80
27:Z1:197:LEU:O	27:Z1:198:ASN:CA	2.28	0.80
27:Z2:428:TYR:OH	27:Z2:435:SER:OG	1.77	0.80
29:b1:16:ILE:CD1	29:b1:77:VAL:HG11	2.07	0.80
29:b1:49:LEU:O	29:b1:53:TYR:O	1.99	0.80
1:A2:873:PRO:CB	4:D3:535:ALA:HA	2.12	0.80
1:A4:442:ARG:NH2	4:D3:1022:PRO:CG	2.44	0.80
9:I1:900:ARG:HB3	13:M1:580:LYS:HB2	1.54	0.80
17:Q2:1007:SER:HB2	17:Q2:1044:ARG:CD	2.12	0.80
18:R1:510:LEU:HB3	18:R1:533:LEU:HD13	1.63	0.80
19:R2:718:VAL:O	19:R2:721:THR:HG22	1.82	0.80
24:W1:534:ASP:OD2	24:W1:746:CYS:CA	2.30	0.80
25:X1:790:ASN:OD1	27:Z1:680:TRP:HH2	1.63	0.80
25:X2:692:LYS:NZ	27:Z2:37:PHE:CZ	2.40	0.80
25:X2:697:LEU:CB	27:Z2:432:ASN:ND2	2.43	0.80
26:Y2:1372:LYS:N	26:Y2:1372:LYS:CA	2.45	0.80
27:Z1:234:TYR:CB	27:Z1:253:LEU:CD1	2.49	0.80
6:F1:135:VAL:CB	9:I1:1336:MET:HB3	2.12	0.80
9:I2:902:GLN:HG2	13:M3:576:LYS:O	1.81	0.80
9:I2:964:SER:HA	16:P3:149:ARG:C	2.06	0.80
17:Q1:285:ILE:HD13	17:Q1:295:TRP:HD1	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:642:PHE:HB3	17:Q2:643:PRO:HD3	1.63	0.80
17:Q2:674:ASN:HB2	17:Q2:743:LEU:HD21	1.64	0.80
17:Q2:979:SER:HB2	17:Q2:1104:ILE:CG2	2.12	0.80
17:Q2:1144:LYS:HB3	17:Q2:1146:TYR:HD1	1.47	0.80
25:X1:795:LYS:HG3	27:Z1:665:ILE:HG21	1.59	0.80
25:X2:658:TYR:HD2	27:Z2:549:ILE:CD1	1.84	0.80
25:X2:751:LEU:HD12	27:Z2:638:ILE:HD11	1.63	0.80
25:X2:778:LYS:CG	25:X2:792:GLN:C	2.43	0.80
25:X2:800:HIS:CD2	27:Z2:691:SER:HG	2.00	0.80
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CG	2.29	0.80
27:Z1:403:ASN:HB3	27:Z2:262:ASN:HD22	1.47	0.80
27:Z1:542:ALA:N	27:Z2:551:ASN:HA	1.97	0.80
27:Z2:217:LEU:HA	27:Z2:269:LYS:HG2	1.64	0.80
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HG11	2.15	0.80
27:Z2:363:LEU:HG	27:Z2:373:LEU:HD11	1.62	0.80
29:b2:16:ILE:CD1	29:b2:77:VAL:HG13	1.95	0.80
1:A3:1332:ARG:HH21	4:D3:902:SER:C	1.90	0.80
9:I1:961:ARG:NH1	15:O1:190:ARG:CA	2.41	0.80
9:I2:1305:LEU:HD21	15:O3:260:LEU:HD11	1.56	0.80
17:Q1:104:LYS:HB3	17:Q1:120:ILE:HD11	1.64	0.80
17:Q1:141:THR:HG21	17:Q1:174:TYR:HE1	1.47	0.80
17:Q1:276:LEU:CD1	17:Q1:296:GLN:HG3	2.11	0.80
17:Q1:350:SER:HA	17:Q1:363:LEU:HD23	1.64	0.80
17:Q1:416:ILE:CD1	17:Q1:427:THR:HB	2.12	0.80
17:Q1:929:LEU:HD22	18:R1:691:THR:CB	2.12	0.80
17:Q2:141:THR:HG21	17:Q2:174:TYR:HE1	1.47	0.80
17:Q2:242:LEU:HD23	17:Q2:242:LEU:H	1.45	0.80
17:Q2:610:LEU:HD12	17:Q2:614:TRP:CZ3	2.17	0.80
17:Q2:859:ASP:HB3	17:Q2:862:PHE:HB2	1.63	0.80
17:Q2:859:ASP:HB3	17:Q2:862:PHE:HB3	1.63	0.80
17:Q2:928:LYS:CE	19:R2:695:ALA:CA	2.56	0.80
18:R1:538:LEU:HB2	18:R1:546:LEU:HD11	1.64	0.80
22:U1:248:LYS:HD3	25:X1:806:SER:OG	1.82	0.80
25:X2:648:LEU:CG	27:Z2:535:PHE:CE1	2.64	0.80
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HG11	2.15	0.80
27:Z1:343:VAL:HG12	27:Z1:346:ASN:HD21	1.46	0.80
27:Z2:319:PHE:CZ	27:Z2:325:ILE:HD12	2.16	0.80
29:b1:76:PHE:CE1	29:b1:89:PHE:CB	2.65	0.80
6:F1:153:LEU:HG	9:I1:1395:LEU:HD11	1.64	0.80
9:I2:885:GLU:O	13:M3:594:LYS:CD	2.29	0.80
17:Q1:528:GLU:O	17:Q1:579:ILE:HG21	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:811:LEU:HD22	17:Q1:814:LEU:CG	2.12	0.80
17:Q1:929:LEU:CB	18:R1:714:TYR:OH	2.29	0.80
17:Q1:985:ASN:O	17:Q1:988:VAL:HG12	1.82	0.80
17:Q2:228:ILE:HG12	17:Q2:249:ASN:CB	2.11	0.80
17:Q2:532:LYS:CD	17:Q2:581:PRO:HG3	2.11	0.80
17:Q2:856:LYS:HB2	17:Q2:859:ASP:CB	2.12	0.80
22:U1:289:GLN:CA	26:Y1:1372:LYS:O	2.27	0.80
22:U1:297:LEU:N	27:Z1:653:GLN:C	2.37	0.80
26:Y1:1339:PHE:O	26:Y1:1343:LYS:HG3	1.81	0.80
26:Y1:1389:SER:HB3	26:Y2:1357:ASN:HD21	1.44	0.80
26:Y2:1334:LEU:HD13	27:Z1:108:ALA:H	1.43	0.80
27:Z1:13:PHE:CE1	27:Z1:445:LEU:CD2	2.63	0.80
27:Z2:634:ILE:HG22	27:Z2:638:ILE:CD1	2.12	0.80
1:A3:1330:VAL:CB	4:D3:876:SER:OG	2.20	0.79
9:I2:916:ALA:HB1	15:O3:189:ARG:CA	2.11	0.79
17:Q1:246:LYS:HD3	17:Q1:247:LEU:N	1.96	0.79
17:Q1:310:VAL:HG21	17:Q1:368:PHE:HE2	1.47	0.79
17:Q2:196:LEU:HD12	17:Q2:198:LEU:HD23	1.63	0.79
17:Q2:232:THR:HG21	17:Q2:300:THR:HG23	1.62	0.79
17:Q2:654:VAL:HG12	17:Q2:666:LYS:CE	2.12	0.79
19:R2:661:PRO:CB	19:R2:710:LYS:HE2	2.11	0.79
20:S1:574:THR:CB	21:T1:88:ARG:HD2	2.12	0.79
23:V2:155:LEU:O	23:V2:159:ILE:HG13	1.82	0.79
25:X1:751:LEU:HD12	27:Z1:638:ILE:HD11	1.63	0.79
25:X2:695:GLN:CB	27:Z2:431:TRP:HE3	1.92	0.79
26:Y1:1358:HIS:O	26:Y1:1362:LEU:CG	2.28	0.79
26:Y1:1409:LEU:C	27:Z1:711:LYS:HE2	2.07	0.79
26:Y1:1409:LEU:HA	26:Y1:1412:GLU:HG2	1.61	0.79
26:Y2:1385:LEU:CD1	27:Z2:683:LEU:HD23	2.12	0.79
27:Z1:255:PHE:CZ	27:Z1:259:LEU:HD11	2.17	0.79
27:Z1:314:ILE:HG22	27:Z1:326:LEU:HD11	1.60	0.79
27:Z1:582:GLU:HA	27:Z1:582:GLU:OE1	1.75	0.79
27:Z2:35:ILE:CD1	27:Z2:429:ILE:HD11	2.11	0.79
27:Z2:359:GLU:CG	27:Z2:361:LYS:CE	2.60	0.79
1:A2:1228:TYR:HE2	1:A1:642:ARG:NH2	1.74	0.79
1:A3:777:LEU:CD1	1:A3:822:ILE:HD11	2.12	0.79
9:I1:1360:GLU:C	15:O1:266:GLN:HE22	1.73	0.79
9:I2:1051:LYS:CA	14:N3:292:ARG:NH1	2.43	0.79
17:Q2:535:SER:O	17:Q2:538:ILE:HG22	1.82	0.79
17:Q2:907:THR:HG22	17:Q2:923:HIS:CB	2.12	0.79
17:Q2:945:ARG:HA	17:Q2:948:GLN:NE2	1.94	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:538:LEU:HB2	19:R2:546:LEU:HD11	1.64	0.79
22:U1:208:LEU:HD22	27:Z1:660:SER:OG	1.82	0.79
22:U1:296:LEU:HD12	27:Z1:657:TYR:H	1.47	0.79
25:X1:665:TRP:CZ3	25:X1:669:LEU:CD1	2.65	0.79
26:Y1:1371:VAL:C	26:Y1:1371:VAL:CA	2.54	0.79
26:Y2:1339:PHE:O	26:Y2:1343:LYS:HG3	1.82	0.79
27:Z1:326:LEU:HD23	27:Z1:389:TRP:HZ2	1.47	0.79
27:Z1:359:GLU:CG	27:Z1:361:LYS:CE	2.60	0.79
27:Z1:531:ILE:HG23	27:Z2:544:THR:HG21	1.64	0.79
27:Z2:46:TYR:CE1	27:Z2:48:VAL:CG2	2.63	0.79
27:Z2:143:VAL:HG22	27:Z2:211:PHE:CZ	2.17	0.79
29:b1:58:HIS:ND1	29:b2:69:VAL:HB	1.96	0.79
1:A3:1223:GLU:OE1	1:A4:647:GLU:CA	2.29	0.79
6:F1:153:LEU:HB3	9:I1:1395:LEU:HD21	1.62	0.79
6:F2:133:GLN:HB2	9:I2:1388:GLU:OE1	1.83	0.79
6:F2:142:ALA:O	9:I2:1395:LEU:HD21	1.77	0.79
9:I2:1048:GLU:OE1	14:N3:293:LYS:HD3	1.83	0.79
18:R1:314:ILE:HG22	18:R1:315:LEU:HG	1.63	0.79
19:R2:664:LEU:HD13	19:R2:690:PHE:CE1	2.17	0.79
25:X2:688:HIS:NE2	27:Z2:439:LEU:N	2.29	0.79
27:Z1:352:GLU:OE1	27:Z1:410:PHE:CE2	2.33	0.79
27:Z2:188:SER:HG	27:Z2:195:TYR:HE2	1.10	0.79
27:Z2:216:LEU:HD11	27:Z2:272:ILE:HD13	1.63	0.79
27:Z2:217:LEU:CD2	27:Z2:269:LYS:CG	2.45	0.79
27:Z2:431:TRP:HD1	27:Z2:436:ASN:HD21	1.27	0.79
27:Z2:627:GLU:O	27:Z2:631:PHE:HD2	1.64	0.79
29:b2:72:GLU:HB2	29:b2:75:HIS:CG	2.16	0.79
1:A2:1277:TRP:HB3	1:A1:642:ARG:NH2	1.97	0.79
9:I1:963:LEU:HD11	16:P1:152:LYS:CD	2.12	0.79
9:I2:902:GLN:HB2	13:M3:580:LYS:CB	2.09	0.79
9:I2:961:ARG:HG3	16:P3:155:GLU:C	2.08	0.79
9:I2:1103:LEU:HD13	13:M3:614:ASP:CB	2.12	0.79
17:Q1:104:LYS:CD	17:Q1:120:ILE:HD11	2.13	0.79
23:V1:155:LEU:O	23:V1:159:ILE:HG13	1.82	0.79
26:Y1:1230:GLU:CG	26:Y1:1233:ARG:HH22	1.96	0.79
26:Y2:1333:ASP:HA	27:Z1:92:GLU:CB	2.12	0.79
27:Z2:642:ASN:C	27:Z2:644:PHE:H	1.90	0.79
4:D1:673:LEU:HG	1:A1:1094:ILE:HD13	0.81	0.79
9:I1:1051:LYS:NZ	14:N1:289:PHE:CD2	2.50	0.79
9:I1:1606:GLU:HG3	9:I2:1669:ARG:HH11	1.38	0.79
9:I2:1028:CYS:C	13:M3:613:ASP:OD1	2.24	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J1:248:VAL:HG22	15:O1:273:ASP:HB2	0.81	0.79
17:Q1:535:SER:O	17:Q1:538:ILE:HG22	1.82	0.79
25:X1:648:LEU:CG	27:Z1:535:PHE:CE1	2.65	0.79
26:Y1:1335:SER:O	26:Y1:1339:PHE:CD1	2.35	0.79
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:NE1	1.96	0.79
27:Z1:197:LEU:HD22	27:Z1:302:ILE:HG23	1.64	0.79
9:I1:910:LYS:HB2	13:M1:548:LEU:HB3	1.63	0.79
9:I1:911:PRO:HD3	15:O1:202:LEU:HG	1.62	0.79
9:I1:1051:LYS:NZ	14:N1:290:VAL:HG23	1.95	0.79
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HD2	1.95	0.79
9:I2:810:GLU:H	15:O3:244:GLU:CB	1.90	0.79
9:I2:921:GLU:CA	16:P3:157:GLU:OE2	2.29	0.79
9:I2:963:LEU:HB2	16:P3:148:ALA:CA	2.09	0.79
17:Q1:945:ARG:HA	17:Q1:948:GLN:NE2	1.94	0.79
17:Q2:745:ILE:O	17:Q2:748:ILE:HG22	1.83	0.79
19:R2:523:TYR:O	19:R2:527:VAL:HG13	1.83	0.79
22:U1:204:VAL:CA	27:Z1:668:GLU:OE2	2.29	0.79
25:X1:648:LEU:CG	27:Z1:535:PHE:CZ	2.66	0.79
25:X1:697:LEU:O	25:X1:701:GLU:CG	2.26	0.79
25:X1:797:LEU:HD23	27:Z1:687:LEU:HD22	1.64	0.79
25:X2:807:LEU:HD22	27:Z2:698:ASN:HA	1.63	0.79
26:Y1:1316:GLU:HG3	27:Z1:609:LEU:CD2	2.11	0.79
26:Y1:1385:LEU:CD1	27:Z1:683:LEU:HD23	2.11	0.79
26:Y1:1396:LEU:HD23	26:Y1:1399:ILE:HD12	1.62	0.79
26:Y2:1335:SER:O	26:Y2:1339:PHE:CD1	2.35	0.79
27:Z1:630:TRP:NE1	27:Z1:634:ILE:CD1	2.44	0.79
27:Z2:182:ILE:CD1	27:Z2:196:CYS:HB3	2.11	0.79
27:Z2:255:PHE:CZ	27:Z2:259:LEU:HD11	2.17	0.79
27:Z2:343:VAL:HG12	27:Z2:346:ASN:ND2	1.97	0.79
27:Z2:343:VAL:HG12	27:Z2:346:ASN:HD21	1.45	0.79
29:b2:16:ILE:HD11	29:b2:21:LYS:CG	2.11	0.79
1:A3:1271:ILE:HG13	1:A4:730:THR:HG21	1.65	0.79
6:F1:135:VAL:C	9:I1:1392:VAL:HG11	2.06	0.79
9:I2:960:SER:HB2	16:P3:154:ALA:N	1.92	0.79
17:Q1:459:GLY:O	17:Q1:465:LEU:HD22	1.83	0.79
17:Q2:181:ILE:HG22	17:Q2:183:ASN:H	1.48	0.79
17:Q2:416:ILE:CD1	17:Q2:427:THR:HB	2.12	0.79
18:R1:515:GLU:O	18:R1:518:ILE:HG22	1.83	0.79
19:R2:617:ILE:HG13	19:R2:670:LYS:HD2	1.65	0.79
22:U1:294:VAL:HG13	27:Z1:657:TYR:O	1.82	0.79
25:X1:800:HIS:CD2	27:Z1:691:SER:HG	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1366:LEU:HA	26:Y2:1384:LYS:N	1.97	0.79
27:Z1:26:ILE:HG21	27:Z1:440:MET:CG	2.13	0.79
27:Z1:703:GLN:O	27:Z1:707:GLU:HG3	1.82	0.79
27:Z2:133:HIS:HE1	27:Z2:211:PHE:HD1	1.29	0.79
29:b2:11:VAL:HA	29:b2:79:PHE:HB3	1.64	0.79
1:A2:1201:ARG:NE	1:A1:648:TYR:CG	2.33	0.79
1:A3:871:ASN:HB3	4:D1:515:ASN:HD22	0.70	0.79
9:I2:895:ARG:NE	13:M3:585:LEU:O	2.04	0.79
9:I2:1103:LEU:H	13:M3:611:LYS:HE2	0.96	0.79
17:Q1:63:GLU:HG2	17:Q1:68:ILE:CG1	2.11	0.79
17:Q1:264:ASN:HB3	17:Q1:289:LYS:HB2	1.63	0.79
17:Q1:381:TYR:C	17:Q1:512:ILE:HB	2.08	0.79
17:Q2:629:LEU:CD2	17:Q2:632:LYS:HB2	2.13	0.79
17:Q2:1068:GLU:HB2	17:Q2:1070:LEU:CD2	2.12	0.79
24:W1:526:ARG:C	24:W1:740:PHE:HA	2.08	0.79
26:Y1:1366:LEU:O	26:Y1:1370:THR:CG2	2.30	0.79
26:Y2:1221:VAL:CG2	27:Z2:536:LEU:HD21	2.13	0.79
26:Y2:1277:LYS:CE	27:Z2:571:ILE:H	1.96	0.79
27:Z2:10:LEU:HD23	27:Z2:431:TRP:CH2	2.13	0.79
27:Z2:120:GLU:N	27:Z2:120:GLU:O	2.15	0.79
27:Z2:630:TRP:NE1	27:Z2:634:ILE:CD1	2.44	0.79
29:b1:16:ILE:HD11	29:b1:21:LYS:HG2	0.79	0.79
1:A4:1027:HIS:CE1	4:D3:478:ALA:HB2	2.18	0.79
7:G2:249:ASP:HB3	15:O4:251:ILE:HG12	1.63	0.79
17:Q1:104:LYS:CG	17:Q1:120:ILE:HD11	2.13	0.79
17:Q1:745:ILE:O	17:Q1:748:ILE:HG22	1.83	0.79
17:Q1:1144:LYS:HB3	17:Q1:1146:TYR:HD1	1.46	0.79
17:Q2:680:GLY:O	17:Q2:684:GLU:HG3	1.83	0.79
17:Q2:811:LEU:HD22	17:Q2:814:LEU:CG	2.12	0.79
17:Q2:817:THR:O	17:Q2:820:THR:HG22	1.83	0.79
18:R1:435:PHE:CG	18:R1:448:ILE:HD11	2.13	0.79
18:R1:523:TYR:O	18:R1:527:VAL:HG13	1.83	0.79
18:R1:533:LEU:HD11	18:R1:537:PHE:CZ	2.18	0.79
18:R1:664:LEU:HD13	18:R1:690:PHE:CE1	2.17	0.79
19:R2:660:THR:CG2	19:R2:661:PRO:HD3	2.13	0.79
24:W1:403:ASP:CG	24:W1:723:PHE:O	2.26	0.79
25:X2:679:LEU:HD22	26:Y2:1281:MET:SD	2.23	0.79
26:Y1:1221:VAL:CG2	27:Z1:536:LEU:HD21	2.13	0.79
26:Y2:1334:LEU:HD22	27:Z1:108:ALA:N	1.94	0.79
26:Y2:1366:LEU:O	26:Y2:1370:THR:CG2	2.30	0.79
26:Y2:1409:LEU:C	27:Z2:711:LYS:HE2	2.07	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:35:ILE:CG2	27:Z1:46:TYR:HE2	1.96	0.79
27:Z1:343:VAL:HG12	27:Z1:346:ASN:ND2	1.97	0.79
27:Z1:387:MET:CE	27:Z1:391:SER:HB2	2.04	0.79
27:Z1:634:ILE:HG22	27:Z1:638:ILE:CD1	2.12	0.79
1:A2:1201:ARG:NE	1:A1:647:GLU:CA	2.34	0.79
1:A2:1224:PRO:HB2	1:A1:648:TYR:OH	1.83	0.79
6:F1:159:ALA:C	9:I1:1338:PHE:HD2	1.91	0.79
6:F1:166:THR:HB	9:I1:1331:LYS:HZ3	1.48	0.79
6:F1:1528:ALA:O	1:A1:1099:GLN:CG	2.31	0.79
9:I1:911:PRO:HG2	15:O1:202:LEU:HD12	0.79	0.79
9:I2:1099:ARG:O	13:M3:611:LYS:HD3	1.57	0.79
10:J1:248:VAL:HG13	15:O1:273:ASP:CA	2.13	0.79
17:Q1:826:SER:O	17:Q1:829:VAL:HG12	1.83	0.79
17:Q1:899:ALA:O	17:Q1:903:LEU:HD23	1.83	0.79
17:Q2:58:SER:HB2	17:Q2:70:LYS:HE2	1.66	0.79
25:X1:789:GLU:CA	27:Z1:669:THR:O	2.30	0.79
25:X2:648:LEU:CG	27:Z2:535:PHE:CZ	2.65	0.79
26:Y1:1218:PHE:HE1	26:Y1:1222:GLU:CD	1.88	0.79
26:Y1:1236:ASP:N	26:Y1:1239:PHE:HE2	1.80	0.79
26:Y1:1437:VAL:CG2	26:Y2:1429:LYS:HE2	2.13	0.79
26:Y1:1443:MET:HE1	27:Z1:332:GLU:OE1	0.97	0.79
26:Y2:1123:GLN:HG3	29:b1:39:ARG:HB2	1.65	0.79
27:Z1:12:ILE:HG21	27:Z1:46:TYR:CD2	2.18	0.79
27:Z1:307:ILE:HD11	27:Z1:386:PHE:HE2	1.48	0.79
27:Z2:13:PHE:CE1	27:Z2:445:LEU:CD2	2.63	0.79
27:Z2:35:ILE:CG2	27:Z2:46:TYR:HE2	1.96	0.79
27:Z2:307:ILE:HD11	27:Z2:386:PHE:HE2	1.48	0.79
27:Z2:314:ILE:CG2	27:Z2:326:LEU:HG	2.13	0.79
27:Z2:326:LEU:HD23	27:Z2:389:TRP:HZ2	1.47	0.79
9:I1:976:ARG:N	14:N1:301:LEU:CG	2.46	0.78
10:J1:247:ASP:HB3	15:O1:276:GLY:O	1.83	0.78
17:Q1:423:ALA:HA	17:Q1:449:LEU:CD1	2.13	0.78
17:Q1:532:LYS:CD	17:Q1:581:PRO:HG3	2.11	0.78
17:Q1:790:HIS:ND1	17:Q1:814:LEU:HB2	1.98	0.78
19:R2:515:GLU:O	19:R2:518:ILE:HG22	1.83	0.78
22:U1:299:GLU:CG	27:Z1:652:GLN:C	2.47	0.78
24:W1:400:LYS:CE	24:W1:716:GLU:CA	2.44	0.78
25:X1:797:LEU:HD23	27:Z1:687:LEU:CD2	2.13	0.78
26:Y2:1383:ALA:N	26:Y2:1383:ALA:CB	2.46	0.78
27:Z1:403:ASN:HB3	27:Z2:262:ASN:ND2	1.98	0.78
7:G1:255:LEU:HD22	15:O2:244:GLU:HB2	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1048:GLU:CG	14:N1:293:LYS:CE	2.60	0.78
9:I1:1357:LYS:NZ	15:O1:263:GLN:HA	1.98	0.78
9:I2:1099:ARG:O	13:M3:611:LYS:CD	2.31	0.78
17:Q2:171:LYS:HD3	17:Q2:195:GLU:HG3	1.66	0.78
18:R1:449:LEU:O	18:R1:449:LEU:HD13	1.84	0.78
18:R1:462:ILE:O	18:R1:465:ILE:HG22	1.83	0.78
25:X2:815:GLU:HG3	26:Y2:1402:LEU:CD2	1.86	0.78
26:Y1:1277:LYS:HG3	27:Z1:571:ILE:HG12	1.65	0.78
26:Y1:1285:ASN:O	26:Y1:1289:GLN:CG	2.27	0.78
26:Y2:1336:THR:CB	27:Z1:92:GLU:OE1	2.31	0.78
27:Z1:305:ILE:HG21	27:Z1:386:PHE:HZ	1.47	0.78
27:Z1:664:ARG:O	27:Z1:668:GLU:HG3	1.83	0.78
27:Z2:164:ILE:HD13	27:Z2:277:ARG:HH12	1.42	0.78
28:a1:983:SER:HB2	28:a1:986:GLN:HG2	1.63	0.78
29:b2:76:PHE:CD1	29:b2:89:PHE:HB2	2.18	0.78
1:A2:777:LEU:CD1	1:A2:822:ILE:HD11	2.12	0.78
1:A2:1274:ASP:CA	1:A1:727:ASN:HD21	1.95	0.78
1:A3:1083:SER:O	4:D3:1096:TYR:CD2	2.12	0.78
6:F1:1267:ARG:HH21	15:O2:253:LEU:C	1.90	0.78
9:I1:977:ASN:HA	15:O1:177:HIS:CA	2.09	0.78
17:Q1:680:GLY:O	17:Q1:684:GLU:HG3	1.83	0.78
17:Q2:58:SER:HB3	17:Q2:70:LYS:HE2	1.66	0.78
17:Q2:826:SER:O	17:Q2:829:VAL:HG12	1.83	0.78
17:Q2:899:ALA:O	17:Q2:903:LEU:HD23	1.83	0.78
19:R2:314:ILE:HG22	19:R2:315:LEU:HG	1.64	0.78
19:R2:543:VAL:CG1	19:R2:594:ILE:HD13	2.13	0.78
26:Y1:1236:ASP:HA	26:Y1:1239:PHE:CD2	2.12	0.78
26:Y1:1312:ASN:O	27:Z1:609:LEU:CD1	2.32	0.78
26:Y2:1392:ARG:CZ	27:Z2:690:ASP:CB	2.40	0.78
27:Z1:41:ASN:HD22	27:Z1:60:SER:CB	1.97	0.78
27:Z1:642:ASN:HD21	27:Z1:646:HIS:HE1	1.31	0.78
27:Z2:678:ASN:N	27:Z2:678:ASN:CA	2.46	0.78
1:A2:1272:GLY:C	1:A1:642:ARG:HG3	2.03	0.78
1:A2:1274:ASP:N	1:A1:642:ARG:HH11	1.81	0.78
1:A3:1326:TRP:O	4:D3:876:SER:CB	2.31	0.78
4:D1:1079:GLU:OE1	1:A1:520:GLU:OE1	2.01	0.78
9:I2:895:ARG:HG2	13:M3:585:LEU:N	1.98	0.78
17:Q1:384:ASN:C	17:Q1:507:ILE:HA	2.07	0.78
17:Q1:820:THR:HG23	17:Q1:821:LEU:HD12	1.64	0.78
17:Q1:887:TRP:HB3	17:Q1:902:THR:HG21	1.64	0.78
17:Q2:104:LYS:HB3	17:Q2:120:ILE:HD11	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:264:ASN:HB3	17:Q2:289:LYS:HB2	1.64	0.78
22:U1:212:LYS:HZ1	25:X1:768:GLU:CA	1.96	0.78
24:W1:523:ASP:CB	24:W1:738:ARG:H	1.96	0.78
25:X2:644:TRP:CD1	25:X2:648:LEU:HD11	2.19	0.78
26:Y1:1298:TYR:CE2	27:Z1:595:GLN:NE2	2.51	0.78
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:CB	2.59	0.78
26:Y2:1277:LYS:HG3	27:Z2:571:ILE:HG12	1.65	0.78
27:Z1:7:LEU:HD21	27:Z1:431:TRP:CD1	2.18	0.78
27:Z1:120:GLU:N	27:Z1:120:GLU:O	2.07	0.78
27:Z1:133:HIS:ND1	27:Z1:211:PHE:CE1	2.52	0.78
27:Z1:314:ILE:CG2	27:Z1:326:LEU:HG	2.14	0.78
29:b1:18:ASP:O	29:b1:22:GLU:HG3	1.83	0.78
29:b1:27:ILE:HG23	29:b1:48:GLN:NE2	1.99	0.78
29:b2:69:VAL:HG21	29:b2:76:PHE:HZ	1.46	0.78
17:Q1:181:ILE:HG22	17:Q1:183:ASN:H	1.48	0.78
17:Q1:194:HIS:HB3	17:Q1:242:LEU:HD22	1.66	0.78
17:Q1:629:LEU:CD2	17:Q1:632:LYS:HB2	2.13	0.78
17:Q1:1007:SER:HB2	17:Q1:1044:ARG:CD	2.12	0.78
17:Q2:210:LEU:CD1	17:Q2:270:LEU:HD12	2.13	0.78
17:Q2:285:ILE:HD13	17:Q2:295:TRP:CD1	2.17	0.78
20:S2:573:VAL:CB	21:T2:86:ASN:ND2	2.47	0.78
22:U1:243:PHE:CE2	27:Z1:660:SER:N	2.49	0.78
26:Y2:1312:ASN:O	27:Z2:609:LEU:CD1	2.32	0.78
27:Z1:401:ASP:C	27:Z2:262:ASN:CB	2.47	0.78
27:Z2:314:ILE:HG22	27:Z2:326:LEU:HD11	1.60	0.78
27:Z2:328:PHE:HE2	27:Z2:349:VAL:CG1	1.88	0.78
29:b2:16:ILE:CG2	29:b2:76:PHE:O	2.32	0.78
1:A3:1222:ALA:HB1	1:A4:598:VAL:CG2	2.13	0.78
6:F1:139:GLN:HE21	9:I1:1340:LEU:HD11	1.24	0.78
6:F1:159:ALA:O	9:I1:1335:LYS:CD	2.30	0.78
6:F1:159:ALA:CA	9:I1:1335:LYS:HG2	2.12	0.78
9:I1:1048:GLU:CB	14:N1:293:LYS:HZ2	1.79	0.78
9:I1:1606:GLU:HG3	9:I2:1669:ARG:HH12	0.96	0.78
9:I2:806:VAL:HG22	15:O3:247:TRP:CB	2.09	0.78
9:I2:891:LEU:HD22	13:M3:586:ASP:O	1.84	0.78
9:I2:965:ALA:HB3	16:P3:152:LYS:CD	2.11	0.78
9:I2:1103:LEU:CB	13:M3:614:ASP:HB2	2.10	0.78
17:Q1:171:LYS:HD3	17:Q1:195:GLU:HG3	1.66	0.78
17:Q1:423:ALA:HA	17:Q1:449:LEU:HD13	1.66	0.78
17:Q2:141:THR:HG23	17:Q2:163:GLY:HA3	1.66	0.78
22:U1:288:LEU:HD22	25:X1:792:GLN:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:HD21	1.62	0.78
26:Y2:1122:ILE:CA	29:b1:39:ARG:HH11	1.92	0.78
26:Y2:1317:TYR:HB2	27:Z1:49:LEU:HD12	1.64	0.78
27:Z1:263:TRP:CD1	27:Z1:270:VAL:CG2	2.67	0.78
27:Z1:543:GLN:O	27:Z2:554:HIS:HE1	1.67	0.78
27:Z1:627:GLU:O	27:Z1:631:PHE:HD2	1.64	0.78
27:Z1:627:GLU:HB3	27:Z1:631:PHE:HE2	1.47	0.78
27:Z2:41:ASN:HD22	27:Z2:60:SER:N	1.58	0.78
27:Z2:120:GLU:H	27:Z2:124:LYS:HE2	1.48	0.78
1:A2:1221:ILE:HG13	1:A1:596:ARG:O	1.83	0.78
1:A3:1332:ARG:NH2	4:D3:903:ILE:H	1.71	0.78
7:G2:249:ASP:HB3	15:O4:254:ARG:HE	1.48	0.78
9:I2:915:ALA:H	15:O3:194:GLU:N	1.81	0.78
17:Q1:141:THR:HG23	17:Q1:163:GLY:HA3	1.66	0.78
17:Q2:310:VAL:HG21	17:Q2:368:PHE:HE2	1.47	0.78
17:Q2:476:GLN:CD	17:Q2:514:PHE:HE1	1.91	0.78
17:Q2:688:THR:HG23	17:Q2:692:GLU:HG2	1.65	0.78
18:R1:660:THR:CG2	18:R1:661:PRO:HD3	2.13	0.78
22:U1:209:PRO:HD2	27:Z1:660:SER:C	2.09	0.78
25:X1:789:GLU:OE1	27:Z1:684:ARG:NE	2.15	0.78
25:X2:721:LEU:CB	27:Z2:612:ILE:HD11	2.13	0.78
26:Y1:1211:LEU:N	26:Y1:1211:LEU:HG	1.99	0.78
26:Y1:1431:MET:N	26:Y1:1434:PHE:CD2	2.49	0.78
26:Y2:1298:TYR:CE2	27:Z2:595:GLN:NE2	2.51	0.78
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:C	2.31	0.78
26:Y2:1430:ASP:CA	26:Y2:1434:PHE:CE1	2.66	0.78
27:Z1:35:ILE:HG21	27:Z1:46:TYR:HE2	1.47	0.78
27:Z2:35:ILE:HG21	27:Z2:46:TYR:HE2	1.47	0.78
27:Z2:211:PHE:CD1	27:Z2:211:PHE:O	2.36	0.78
27:Z2:307:ILE:HG21	27:Z2:390:ALA:HB1	1.66	0.78
27:Z2:342:TYR:HE2	27:Z2:344:TYR:HD2	1.27	0.78
1:A1:777:LEU:HD12	1:A1:822:ILE:HD11	1.66	0.78
1:A3:1400:SER:OG	4:D3:869:THR:O	1.99	0.78
6:F1:143:GLY:HA3	9:I1:1394:ASN:OD1	1.83	0.78
6:F2:139:GLN:HB2	9:I2:1392:VAL:HG22	1.65	0.78
6:F2:140:GLU:OE1	9:I2:1388:GLU:O	2.02	0.78
9:I2:1103:LEU:CD2	13:M3:614:ASP:CB	2.61	0.78
9:I2:1163:LEU:H	15:O3:266:GLN:NE2	1.82	0.78
9:I2:1253:GLY:HA2	14:N3:410:MET:CA	2.13	0.78
9:I2:1308:THR:CA	14:N3:413:VAL:HG12	2.13	0.78
17:Q1:172:ALA:HB3	17:Q1:196:LEU:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:688:THR:HG23	17:Q1:692:GLU:HG2	1.65	0.78
17:Q1:705:LYS:HA	17:Q1:710:ILE:HD12	1.66	0.78
17:Q2:104:LYS:CG	17:Q2:120:ILE:HD11	2.13	0.78
17:Q2:350:SER:HA	17:Q2:363:LEU:HD23	1.64	0.78
17:Q2:705:LYS:HA	17:Q2:710:ILE:HD12	1.66	0.78
18:R1:617:ILE:HG13	18:R1:670:LYS:HD2	1.65	0.78
19:R2:621:GLN:HB3	19:R2:670:LYS:HZ1	1.46	0.78
20:S2:548:TYR:OH	21:T2:18:ASP:OD2	2.01	0.78
25:X1:640:LEU:HB3	26:Y1:1218:PHE:CZ	2.19	0.78
25:X1:704:GLN:OE1	27:Z1:598:LEU:CD1	2.32	0.78
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:ND2	1.95	0.78
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CE1	2.62	0.78
26:Y2:1277:LYS:CE	27:Z2:571:ILE:N	2.46	0.78
26:Y2:1358:HIS:O	26:Y2:1362:LEU:CG	2.28	0.78
27:Z1:165:VAL:HG12	27:Z1:168:LYS:HG2	1.64	0.78
27:Z2:12:ILE:HG21	27:Z2:46:TYR:CD2	2.18	0.78
27:Z2:41:ASN:OD1	27:Z2:59:PHE:CD2	2.36	0.78
27:Z2:178:ARG:HH21	27:Z2:280:LYS:CD	1.95	0.78
27:Z2:263:TRP:CD1	27:Z2:270:VAL:CG2	2.67	0.78
6:F1:159:ALA:N	9:I1:1338:PHE:N	1.85	0.78
6:F1:163:ASP:OD2	9:I1:1331:LYS:HG2	1.81	0.78
9:I1:923:GLY:N	15:O1:191:ARG:HG3	1.99	0.78
9:I1:1667:GLN:NE2	9:I2:1669:ARG:HB2	1.85	0.78
9:I2:978:LYS:NZ	15:O3:182:THR:H	1.80	0.78
9:I2:1254:VAL:HA	14:N3:408:MET:HA	1.65	0.78
17:Q1:196:LEU:HD12	17:Q1:198:LEU:HD23	1.63	0.78
17:Q1:210:LEU:CD1	17:Q1:270:LEU:HD12	2.13	0.78
17:Q1:817:THR:O	17:Q1:820:THR:HG22	1.83	0.78
17:Q2:104:LYS:CD	17:Q2:120:ILE:HD11	2.13	0.78
18:R1:543:VAL:CG1	18:R1:594:ILE:HD13	2.13	0.78
22:U1:297:LEU:O	27:Z1:654:ASP:N	2.16	0.78
25:X1:690:GLN:HG2	27:Z1:581:PHE:CZ	2.19	0.78
25:X2:637:LEU:O	25:X2:641:VAL:HG21	1.81	0.78
25:X2:704:GLN:OE1	27:Z2:598:LEU:CD1	2.32	0.78
26:Y2:1443:MET:HE1	27:Z2:332:GLU:OE1	0.97	0.78
27:Z1:24:ARG:HH22	27:Z1:445:LEU:HD13	1.49	0.78
27:Z1:173:PHE:CD2	28:a2:1106:VAL:HG11	2.19	0.78
27:Z2:239:SER:O	27:Z2:240:THR:C	2.27	0.78
27:Z2:422:ARG:NH2	27:Z2:442:ASN:ND2	2.32	0.78
27:Z2:703:GLN:O	27:Z2:707:GLU:HG3	1.82	0.78
1:A2:1221:ILE:H	1:A1:596:ARG:HA	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CE2	2.18	0.78
9:I1:1046:HIS:ND1	15:O1:171:ASP:OD2	2.17	0.78
9:I2:915:ALA:N	15:O3:194:GLU:N	2.31	0.78
17:Q1:443:TRP:CE3	17:Q1:504:PHE:CE1	2.72	0.78
17:Q2:172:ALA:HB3	17:Q2:196:LEU:HB3	1.66	0.78
17:Q2:423:ALA:HA	17:Q2:449:LEU:CD1	2.13	0.78
17:Q2:696:LEU:HD13	17:Q2:700:GLU:HG3	1.62	0.78
24:W1:113:VAL:HG23	24:W1:114:GLU:H	1.49	0.78
25:X1:679:LEU:HD22	26:Y1:1281:MET:SD	2.23	0.78
25:X1:751:LEU:HD13	27:Z1:638:ILE:HD11	1.49	0.78
26:Y2:1321:MET:CB	27:Z1:51:ASP:CG	2.56	0.78
26:Y2:1435:LYS:HE3	27:Z2:225:LEU:HD21	1.62	0.78
27:Z1:359:GLU:CG	27:Z1:361:LYS:HE3	2.13	0.78
27:Z1:642:ASN:C	27:Z1:644:PHE:H	1.91	0.78
27:Z2:10:LEU:HD23	27:Z2:431:TRP:HH2	1.46	0.78
27:Z2:27:PHE:CE2	27:Z2:80:LEU:HD21	2.19	0.78
27:Z2:182:ILE:CD1	27:Z2:198:ASN:OD1	2.32	0.78
27:Z2:208:PHE:HE2	27:Z2:279:ALA:O	1.67	0.78
27:Z2:359:GLU:CD	27:Z2:361:LYS:CE	2.56	0.78
27:Z2:359:GLU:CG	27:Z2:361:LYS:HE3	2.13	0.78
1:A1:827:ILE:CG1	1:A1:849:SER:CA	2.63	0.78
1:A2:1201:ARG:HG3	1:A1:647:GLU:CG	2.14	0.77
1:A2:1220:PRO:O	1:A1:599:ARG:NE	2.16	0.77
1:A3:1085:ALA:N	4:D3:1096:TYR:OH	2.14	0.77
1:A4:827:ILE:CG1	1:A4:849:SER:CA	2.62	0.77
7:G2:254:ASN:HB3	15:O4:253:LEU:HA	1.65	0.77
9:I2:809:HIS:CD2	15:O3:243:LEU:H	2.01	0.77
9:I2:895:ARG:HH21	13:M3:589:GLY:H	0.81	0.77
17:Q1:196:LEU:CD1	17:Q1:198:LEU:HD23	2.14	0.77
17:Q1:654:VAL:HG12	17:Q1:666:LYS:CE	2.12	0.77
17:Q2:595:ASN:O	17:Q2:598:ILE:HG22	1.84	0.77
18:R1:660:THR:HG23	18:R1:661:PRO:HD3	1.67	0.77
25:X2:640:LEU:HB3	26:Y2:1218:PHE:CZ	2.19	0.77
26:Y1:1312:ASN:O	27:Z1:609:LEU:HD11	1.84	0.77
26:Y1:1410:GLN:N	27:Z1:711:LYS:HE3	2.00	0.77
27:Z1:13:PHE:HD1	27:Z1:445:LEU:CD2	1.92	0.77
27:Z1:143:VAL:HG22	27:Z1:211:PHE:CZ	2.17	0.77
27:Z1:190:ASP:OD1	27:Z1:311:GLN:HB3	1.84	0.77
27:Z1:437:LEU:HG	27:Z1:450:ILE:HD11	0.82	0.77
27:Z2:179:VAL:CG1	27:Z2:198:ASN:ND2	2.46	0.77
27:Z2:664:ARG:O	27:Z2:668:GLU:HG3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1273:ALA:H	1:A4:730:THR:HG21	1.48	0.77
6:F1:138:ILE:CB	9:I1:1388:GLU:O	2.31	0.77
6:F1:1806:ARG:O	14:N2:412:ASN:CG	2.26	0.77
9:I2:982:GLN:HE21	15:O3:179:LEU:HD12	1.46	0.77
9:I2:1168:ALA:HB3	15:O3:269:ILE:HG22	1.65	0.77
17:Q1:553:LEU:HD13	17:Q1:629:LEU:CD2	2.14	0.77
17:Q1:749:LEU:HG	17:Q1:807:PHE:CG	2.19	0.77
17:Q1:907:THR:HG22	17:Q1:923:HIS:CB	2.12	0.77
17:Q1:960:ILE:HG23	17:Q1:991:LEU:CD1	2.13	0.77
17:Q2:960:ILE:HG23	17:Q2:991:LEU:CD1	2.13	0.77
18:R1:442:LEU:CD2	18:R1:470:LEU:HD21	2.13	0.77
20:S2:574:THR:N	21:T2:86:ASN:HD22	1.81	0.77
26:Y1:1277:LYS:CE	27:Z1:571:ILE:N	2.46	0.77
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:CD1	2.09	0.77
27:Z1:179:VAL:CG1	27:Z1:198:ASN:ND2	2.47	0.77
27:Z1:307:ILE:HG21	27:Z1:390:ALA:HB1	1.66	0.77
27:Z2:294:LEU:HD11	27:Z2:325:ILE:HD11	1.66	0.77
1:A2:785:ILE:HD11	1:A2:825:ARG:HG2	1.66	0.77
1:A2:1228:TYR:HH	1:A1:642:ARG:HB3	0.94	0.77
1:A2:1233:GLN:NE2	1:A1:586:CYS:C	2.20	0.77
9:I1:1315:GLN:O	15:O1:269:ILE:HD12	1.83	0.77
9:I2:1099:ARG:CA	15:O3:272:SER:CB	2.56	0.77
9:I2:1165:SER:HA	15:O3:269:ILE:HB	1.65	0.77
17:Q2:615:GLU:CB	17:Q2:645:ILE:HG21	2.14	0.77
17:Q2:887:TRP:HB3	17:Q2:902:THR:HG21	1.64	0.77
25:X1:789:GLU:CG	25:X1:793:LEU:HD13	2.14	0.77
26:Y2:1211:LEU:C	26:Y2:1215:GLU:HG2	2.08	0.77
26:Y2:1211:LEU:CB	26:Y2:1214:ILE:HD12	2.15	0.77
26:Y2:1277:LYS:CD	27:Z2:571:ILE:HG13	2.14	0.77
27:Z1:10:LEU:HD23	27:Z1:431:TRP:CH2	2.14	0.77
27:Z1:182:ILE:CD1	27:Z1:198:ASN:OD1	2.32	0.77
27:Z1:381:ILE:HD11	27:Z1:424:PRO:CG	2.14	0.77
1:A2:873:PRO:HB3	4:D3:535:ALA:CB	2.14	0.77
1:A2:1201:ARG:HB3	1:A1:647:GLU:HB3	1.66	0.77
6:F1:139:GLN:HE21	9:I1:1340:LEU:HD13	1.45	0.77
6:F2:140:GLU:CD	9:I2:1388:GLU:O	2.28	0.77
7:G1:252:LEU:CD2	15:O2:244:GLU:HG2	1.93	0.77
7:G2:254:ASN:ND2	15:O4:256:TYR:N	2.32	0.77
9:I1:980:ILE:CD1	15:O1:175:SER:N	2.27	0.77
9:I2:916:ALA:HB2	15:O3:193:ALA:H	1.48	0.77
9:I2:922:ASP:OD1	15:O3:186:PHE:C	2.26	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1161:ASP:O	15:O3:266:GLN:O	2.01	0.77
17:Q1:843:PHE:HE1	17:Q1:875:PHE:HZ	1.32	0.77
17:Q2:553:LEU:HD13	17:Q2:629:LEU:CD2	2.14	0.77
19:R2:660:THR:HG23	19:R2:661:PRO:HD3	1.67	0.77
25:X2:690:GLN:CA	27:Z2:7:LEU:HD23	2.06	0.77
25:X2:695:GLN:HG3	27:Z2:431:TRP:CA	2.15	0.77
25:X2:775:THR:OG1	25:X2:794:ILE:CD1	2.32	0.77
27:Z1:137:TYR:CB	27:Z1:269:LYS:HD3	2.12	0.77
27:Z1:211:PHE:CD1	27:Z1:211:PHE:O	2.36	0.77
27:Z1:531:ILE:CG2	27:Z2:544:THR:HG21	2.15	0.77
27:Z2:165:VAL:HG12	27:Z2:168:LYS:HG2	1.64	0.77
27:Z2:173:PHE:CD2	28:a1:1106:VAL:HG11	2.19	0.77
27:Z2:293:GLU:O	27:Z2:296:ASP:OD1	2.03	0.77
27:Z2:383:GLN:HE21	27:Z2:417:ILE:HG13	1.48	0.77
29:b1:38:GLU:OE1	29:b1:61:VAL:CB	2.31	0.77
1:A3:1204:TRP:CE3	1:A4:647:GLU:C	2.44	0.77
6:F1:159:ALA:CA	9:I1:1335:LYS:CG	2.63	0.77
9:I1:913:ALA:N	13:M1:541:LEU:CD2	2.46	0.77
9:I1:919:ALA:CB	15:O1:190:ARG:CZ	2.58	0.77
17:Q2:196:LEU:CD1	17:Q2:198:LEU:HD23	2.14	0.77
17:Q2:725:PHE:CD1	17:Q2:740:GLU:HG2	2.19	0.77
18:R1:667:LEU:HD13	18:R1:667:LEU:O	1.85	0.77
18:R1:706:GLN:O	18:R1:710:LYS:HB2	1.85	0.77
19:R2:533:LEU:HD11	19:R2:537:PHE:CZ	2.18	0.77
25:X2:745:TYR:HB3	27:Z1:104:SER:OG	1.83	0.77
27:Z1:217:LEU:HA	27:Z1:269:LYS:HG2	1.64	0.77
27:Z1:294:LEU:HD11	27:Z1:325:ILE:HD11	1.65	0.77
27:Z1:541:LYS:HZ3	27:Z2:553:ILE:HG13	1.46	0.77
27:Z2:34:ARG:CD	27:Z2:95:TRP:HH2	1.98	0.77
27:Z2:303:ALA:HB3	27:Z2:363:LEU:CD2	2.10	0.77
27:Z2:381:ILE:HD11	27:Z2:424:PRO:CG	2.14	0.77
29:b1:16:ILE:HA	29:b1:74:GLY:O	1.84	0.77
29:b1:68:TYR:CD2	29:b2:46:LYS:HB3	2.20	0.77
1:A2:1224:PRO:HA	1:A1:594:LEU:O	1.27	0.77
1:A2:1236:GLN:OE1	1:A1:587:VAL:HG11	1.85	0.77
6:F1:133:GLN:N	9:I1:1333:THR:CG2	2.44	0.77
6:F1:1806:ARG:O	14:N2:412:ASN:ND2	2.18	0.77
6:F2:158:PRO:HB2	9:I2:1337:ALA:CB	2.14	0.77
9:I1:912:VAL:N	13:M1:541:LEU:HD23	2.00	0.77
9:I1:922:ASP:HB3	15:O1:191:ARG:CG	2.15	0.77
9:I2:805:ILE:O	15:O3:244:GLU:HG2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:459:GLY:O	17:Q2:465:LEU:HD22	1.83	0.77
17:Q2:540:HIS:CD2	17:Q2:544:LYS:HD2	2.20	0.77
17:Q2:1071:PRO:HB3	17:Q2:1155:VAL:HG23	1.67	0.77
19:R2:667:LEU:HD13	19:R2:667:LEU:O	1.85	0.77
20:S2:570:MET:CB	21:T2:85:GLU:OE1	2.32	0.77
25:X1:791:ILE:HG21	27:Z1:666:GLU:O	1.84	0.77
26:Y1:1221:VAL:CG1	27:Z1:536:LEU:HD21	2.15	0.77
27:Z1:239:SER:O	27:Z1:240:THR:C	2.27	0.77
27:Z1:422:ARG:NH2	27:Z1:442:ASN:ND2	2.32	0.77
27:Z2:41:ASN:HD22	27:Z2:60:SER:CB	1.97	0.77
27:Z2:158:ASN:HB2	27:Z2:161:GLU:CD	2.10	0.77
27:Z2:182:ILE:HD11	27:Z2:196:CYS:HB3	1.67	0.77
27:Z2:305:ILE:HG21	27:Z2:386:PHE:HZ	1.47	0.77
1:A1:785:ILE:HD11	1:A1:825:ARG:HG2	1.67	0.77
1:A2:1230:TYR:OH	1:A1:590:SER:CA	2.24	0.77
6:F1:135:VAL:C	9:I1:1392:VAL:HG21	2.09	0.77
6:F1:161:ALA:HB3	9:I1:1336:MET:N	1.98	0.77
6:F1:267:GLU:O	9:I1:1202:VAL:HG21	1.84	0.77
9:I1:961:ARG:HH11	15:O1:190:ARG:H	1.28	0.77
9:I2:961:ARG:H	16:P3:155:GLU:CB	1.98	0.77
9:I2:1099:ARG:HD2	15:O3:271:GLU:CD	2.09	0.77
9:I2:1246:ILE:CD1	14:N3:408:MET:CA	2.29	0.77
17:Q1:332:LYS:HE2	17:Q1:352:TYR:HE2	1.50	0.77
17:Q1:615:GLU:CB	17:Q1:645:ILE:HG21	2.14	0.77
17:Q1:745:ILE:HD13	17:Q1:800:GLN:OE1	1.85	0.77
17:Q1:922:LEU:CD2	18:R1:688:LEU:HD22	2.13	0.77
17:Q2:331:LEU:HD11	17:Q2:351:ILE:HG21	1.67	0.77
17:Q2:749:LEU:HG	17:Q2:807:PHE:CG	2.19	0.77
24:W1:403:ASP:HB2	24:W1:723:PHE:CB	2.14	0.77
25:X1:776:PHE:HE2	26:Y1:1369:PHE:CD1	2.02	0.77
26:Y1:1368:LEU:O	26:Y1:1372:LYS:CB	2.30	0.77
26:Y1:1392:ARG:CZ	27:Z1:690:ASP:CB	2.40	0.77
26:Y2:1299:VAL:O	26:Y2:1303:ILE:HG12	1.84	0.77
26:Y2:1455:ASN:HB3	26:Y2:1456:LEU:C	2.10	0.77
27:Z1:41:ASN:OD1	27:Z1:59:PHE:CD2	2.36	0.77
27:Z1:294:LEU:HD23	27:Z1:353:ARG:NH2	1.99	0.77
27:Z2:209:TYR:CB	27:Z2:210:PRO:HD2	1.85	0.77
29:b2:27:ILE:HG12	29:b2:48:GLN:OE1	1.83	0.77
9:I2:914:ASN:OD1	15:O3:194:GLU:OE1	2.03	0.77
17:Q2:423:ALA:HA	17:Q2:449:LEU:HD13	1.66	0.77
18:R1:409:LYS:HZ3	18:R1:448:ILE:N	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:613:ILE:HG23	18:R1:614:PRO:HD3	1.67	0.77
18:R1:628:PHE:CZ	18:R1:629:GLU:HG2	2.20	0.77
25:X2:690:GLN:HG2	27:Z2:581:PHE:CZ	2.19	0.77
25:X2:776:PHE:HE2	26:Y2:1369:PHE:CD1	2.02	0.77
26:Y1:1277:LYS:CE	27:Z1:571:ILE:H	1.97	0.77
27:Z1:208:PHE:HE2	27:Z1:279:ALA:O	1.68	0.77
27:Z2:329:LYS:CE	27:Z2:333:MET:HG3	2.14	0.77
27:Z2:352:GLU:OE1	27:Z2:410:PHE:CE2	2.32	0.77
29:b1:11:VAL:HA	29:b1:79:PHE:HB3	1.65	0.77
1:A3:1200:ARG:CG	1:A4:591:ASP:CB	2.31	0.77
6:F1:138:ILE:CB	9:I1:1392:VAL:CG2	1.82	0.77
9:I1:1667:GLN:HG2	9:I2:1669:ARG:CB	1.99	0.77
17:Q1:610:LEU:CD1	17:Q1:613:ILE:HD12	2.15	0.77
17:Q2:194:HIS:HB3	17:Q2:242:LEU:HD22	1.66	0.77
17:Q2:610:LEU:CD1	17:Q2:613:ILE:HD12	2.15	0.77
17:Q2:745:ILE:HD11	17:Q2:800:GLN:HG3	1.66	0.77
17:Q2:891:ILE:CD1	19:R2:715:LEU:HD22	1.83	0.77
18:R1:677:LEU:HD12	18:R1:684:ILE:HG22	1.67	0.77
25:X1:814:LEU:HB2	26:Y1:1402:LEU:HD13	1.67	0.77
25:X2:691:ASN:HB2	27:Z2:431:TRP:CD1	2.14	0.77
25:X2:695:GLN:CA	27:Z2:48:VAL:CG1	2.62	0.77
25:X2:710:PHE:CZ	26:Y2:1313:ALA:CB	2.68	0.77
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CH2	2.20	0.77
26:Y2:1236:ASP:N	26:Y2:1239:PHE:HE2	1.83	0.77
27:Z1:27:PHE:CE2	27:Z1:80:LEU:HD21	2.19	0.77
27:Z1:137:TYR:CE2	27:Z1:215:VAL:O	2.29	0.77
27:Z2:289:PRO:CD	27:Z2:289:PRO:N	2.46	0.77
1:A2:1196:GLU:OE2	1:A1:590:SER:HB2	1.85	0.77
1:A2:1233:GLN:HE22	1:A1:586:CYS:C	1.92	0.77
1:A3:1204:TRP:HD1	1:A4:595:GLU:CG	1.98	0.77
6:F1:982:PRO:HB3	9:I1:1455:ARG:HB3	1.66	0.77
6:F1:1806:ARG:CA	14:N2:412:ASN:CG	2.44	0.77
6:F2:139:GLN:OE1	9:I2:1340:LEU:CD2	2.21	0.77
7:G1:253:SER:HG	13:M2:592:LEU:HD12	1.49	0.77
9:I1:912:VAL:O	13:M1:542:ASP:OD1	2.02	0.77
17:Q2:332:LYS:HE2	17:Q2:352:TYR:HE2	1.50	0.77
18:R1:555:ILE:HD13	18:R1:555:ILE:O	1.85	0.77
18:R1:614:PRO:HA	18:R1:617:ILE:CG2	2.16	0.77
25:X2:823:LYS:CB	27:Z1:259:LEU:HD21	2.02	0.77
26:Y2:1221:VAL:CG1	27:Z2:536:LEU:HD21	2.15	0.77
27:Z1:34:ARG:CD	27:Z1:95:TRP:HH2	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:182:ILE:HD11	27:Z1:196:CYS:HB3	1.67	0.77
27:Z1:217:LEU:HD21	27:Z1:269:LYS:CD	1.86	0.77
27:Z1:297:TYR:CE1	27:Z1:321:ASP:OD1	2.38	0.77
27:Z1:314:ILE:CG2	27:Z1:326:LEU:CG	2.61	0.77
27:Z2:137:TYR:CB	27:Z2:269:LYS:HD3	2.12	0.77
27:Z2:302:ILE:O	27:Z2:302:ILE:HG13	1.85	0.77
29:b2:76:PHE:CE1	29:b2:89:PHE:CG	2.73	0.77
9:I2:978:LYS:HG3	15:O3:177:HIS:CD2	2.20	0.76
17:Q1:874:PHE:CE1	17:Q1:889:GLN:HG2	2.20	0.76
17:Q2:700:GLU:OE1	17:Q2:758:ILE:HA	1.85	0.76
17:Q2:790:HIS:ND1	17:Q2:814:LEU:HB2	1.98	0.76
25:X1:710:PHE:CZ	26:Y1:1313:ALA:CB	2.68	0.76
25:X1:717:LYS:HE2	26:Y1:1320:LEU:HD13	1.52	0.76
25:X2:695:GLN:CG	27:Z2:48:VAL:HG11	2.10	0.76
25:X2:772:VAL:CG1	27:Z2:662:LEU:HD12	2.16	0.76
27:Z1:41:ASN:HD21	27:Z1:60:SER:N	1.64	0.76
27:Z2:133:HIS:CE1	27:Z2:211:PHE:CD1	2.73	0.76
27:Z2:148:ASP:CB	27:Z2:150:THR:HG23	2.15	0.76
27:Z2:190:ASP:OD1	27:Z2:311:GLN:HB3	1.85	0.76
29:b2:76:PHE:CD1	29:b2:89:PHE:CB	2.67	0.76
1:A2:1221:ILE:HB	1:A1:600:LYS:HG2	1.67	0.76
1:A4:624:ASP:O	4:D3:980:ARG:CD	2.32	0.76
6:F1:138:ILE:N	9:I1:1388:GLU:C	2.38	0.76
6:F2:142:ALA:HB3	9:I2:1395:LEU:CD1	2.15	0.76
9:I1:908:ARG:HB2	15:O1:209:LEU:CD1	2.15	0.76
9:I1:912:VAL:HG23	15:O1:198:ARG:NH2	1.99	0.76
9:I2:914:ASN:ND2	15:O3:191:ARG:HA	2.00	0.76
9:I2:1049:LEU:HB3	14:N3:292:ARG:O	1.82	0.76
17:Q1:276:LEU:HD13	17:Q1:296:GLN:NE2	2.01	0.76
17:Q1:381:TYR:CA	17:Q1:512:ILE:HG13	2.14	0.76
17:Q1:382:ARG:CA	17:Q1:512:ILE:HG12	2.16	0.76
17:Q1:456:ILE:HG13	17:Q1:468:LEU:HB2	1.67	0.76
17:Q1:651:ASN:HA	17:Q1:654:VAL:HG22	1.67	0.76
17:Q1:745:ILE:HD11	17:Q1:800:GLN:HG3	1.66	0.76
17:Q2:104:LYS:CB	17:Q2:120:ILE:HD11	2.16	0.76
17:Q2:503:TYR:HE1	17:Q2:538:ILE:HG13	1.50	0.76
17:Q2:650:LEU:O	17:Q2:654:VAL:HG13	1.85	0.76
17:Q2:725:PHE:CB	17:Q2:744:LYS:HE3	2.14	0.76
19:R2:575:GLU:O	19:R2:579:GLN:HG2	1.86	0.76
27:Z1:26:ILE:HD12	27:Z1:37:PHE:HE1	1.49	0.76
27:Z1:329:LYS:CE	27:Z1:333:MET:HG3	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:642:ASN:HD21	27:Z2:646:HIS:HE1	1.31	0.76
27:Z2:678:ASN:N	27:Z2:678:ASN:C	2.44	0.76
7:G1:252:LEU:HD23	15:O2:244:GLU:CG	2.15	0.76
9:I1:841:PHE:HE1	15:O1:191:ARG:NH2	1.52	0.76
9:I1:909:ARG:CD	15:O1:205:ARG:HH22	1.89	0.76
9:I1:913:ALA:H	13:M1:541:LEU:CD2	1.98	0.76
9:I1:965:ALA:HB2	15:O1:185:ALA:CA	2.15	0.76
9:I2:1049:LEU:CB	14:N3:292:ARG:O	2.33	0.76
9:I2:1051:LYS:HD2	14:N3:289:PHE:CG	2.19	0.76
17:Q1:331:LEU:HD11	17:Q1:351:ILE:HG21	1.67	0.76
17:Q1:1043:ARG:HH12	17:Q1:1113:ILE:HG23	1.49	0.76
17:Q2:285:ILE:HD13	17:Q2:295:TRP:HD1	1.47	0.76
17:Q2:972:CYS:HB3	17:Q2:975:PHE:HD2	1.51	0.76
18:R1:575:GLU:O	18:R1:579:GLN:HG2	1.85	0.76
18:R1:621:GLN:O	18:R1:625:LYS:HG2	1.85	0.76
19:R2:706:GLN:O	19:R2:710:LYS:HB2	1.85	0.76
22:U1:296:LEU:CA	27:Z1:657:TYR:HB2	1.92	0.76
22:U1:296:LEU:CD1	27:Z1:653:GLN:C	2.58	0.76
25:X2:658:TYR:CD2	27:Z2:549:ILE:CD1	2.62	0.76
25:X2:695:GLN:HG3	27:Z2:431:TRP:HA	1.68	0.76
25:X2:699:TYR:N	27:Z2:49:LEU:CD1	2.49	0.76
25:X2:745:TYR:HB3	27:Z1:104:SER:CB	2.15	0.76
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:CD2	2.16	0.76
26:Y2:1312:ASN:O	27:Z2:609:LEU:HD11	1.84	0.76
27:Z1:133:HIS:CE1	27:Z1:211:PHE:CD1	2.73	0.76
27:Z2:117:ASP:HA	27:Z2:124:LYS:HZ1	0.97	0.76
1:A4:785:ILE:HD11	1:A4:825:ARG:HG2	1.67	0.76
9:I1:919:ALA:O	15:O1:191:ARG:CZ	2.33	0.76
9:I2:968:PRO:HG3	14:N3:300:ALA:O	1.85	0.76
17:Q1:120:ILE:HD13	17:Q1:121:THR:N	2.01	0.76
17:Q1:855:LYS:C	17:Q1:856:LYS:HD2	2.10	0.76
17:Q2:745:ILE:HD13	17:Q2:800:GLN:OE1	1.85	0.76
18:R1:527:VAL:HB	18:R1:580:PHE:CE1	2.20	0.76
19:R2:527:VAL:HB	19:R2:580:PHE:CE1	2.20	0.76
19:R2:614:PRO:HA	19:R2:617:ILE:CG2	2.16	0.76
20:S1:548:TYR:OH	21:T1:18:ASP:OD2	2.01	0.76
23:V1:141:ASN:O	23:V1:145:ASN:ND2	2.18	0.76
26:Y1:1122:ILE:O	29:b2:39:ARG:CG	2.32	0.76
26:Y1:1277:LYS:CD	27:Z1:571:ILE:HG13	2.15	0.76
26:Y1:1342:GLN:OE1	27:Z1:634:ILE:HG13	1.85	0.76
26:Y2:1365:ILE:CG2	26:Y2:1387:LYS:N	2.41	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:149:ASP:OD2	27:Z1:182:ILE:CB	2.31	0.76
27:Z1:172:SER:OG	27:Z1:177:ALA:HB2	1.85	0.76
27:Z1:522:GLU:HB3	27:Z1:523:ASN:CA	2.13	0.76
27:Z2:137:TYR:HB2	27:Z2:269:LYS:CE	2.16	0.76
27:Z2:363:LEU:CD2	27:Z2:373:LEU:HD11	2.16	0.76
1:A2:1275:PRO:HD2	1:A1:726:ALA:HB1	0.83	0.76
1:A3:785:ILE:HD11	1:A3:825:ARG:HG2	1.67	0.76
1:A3:1088:ASN:CG	4:D3:1095:ARG:HH22	1.91	0.76
1:A3:1269:ALA:O	1:A4:729:SER:C	2.15	0.76
9:I1:908:ARG:CB	15:O1:209:LEU:CD1	2.57	0.76
9:I2:978:LYS:NZ	15:O3:182:THR:N	2.34	0.76
17:Q1:58:SER:HB3	17:Q1:70:LYS:HE2	1.65	0.76
17:Q1:382:ARG:NH2	17:Q1:573:LYS:NZ	2.32	0.76
17:Q1:444:GLU:O	17:Q1:504:PHE:CA	2.23	0.76
17:Q1:530:ASP:O	17:Q1:534:THR:HG23	1.85	0.76
17:Q1:650:LEU:O	17:Q1:654:VAL:HG13	1.85	0.76
17:Q1:725:PHE:CB	17:Q1:744:LYS:HE3	2.14	0.76
17:Q2:855:LYS:C	17:Q2:856:LYS:HD2	2.10	0.76
17:Q2:1148:ILE:CD1	17:Q2:1155:VAL:HG12	2.15	0.76
24:W2:113:VAL:HG23	24:W2:114:GLU:H	1.49	0.76
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CE2	2.21	0.76
25:X2:684:VAL:HG11	27:Z2:439:LEU:O	1.85	0.76
25:X2:814:LEU:HB2	26:Y2:1402:LEU:HD13	1.67	0.76
26:Y1:1410:GLN:CA	27:Z1:711:LYS:HE3	2.16	0.76
27:Z1:158:ASN:HB2	27:Z1:161:GLU:CD	2.10	0.76
27:Z2:41:ASN:HD21	27:Z2:60:SER:N	1.65	0.76
27:Z2:297:TYR:CE1	27:Z2:321:ASP:OD1	2.38	0.76
27:Z2:314:ILE:CG2	27:Z2:326:LEU:CG	2.61	0.76
27:Z2:387:MET:HE3	27:Z2:391:SER:CA	2.16	0.76
27:Z2:679:GLU:N	27:Z2:680:TRP:H	1.83	0.76
29:b1:10:ILE:O	29:b1:80:TYR:N	2.17	0.76
1:A3:777:LEU:HD12	1:A3:822:ILE:HD11	1.66	0.76
9:I2:809:HIS:HD2	15:O3:244:GLU:N	1.79	0.76
9:I2:921:GLU:CG	16:P3:157:GLU:OE2	2.33	0.76
17:Q1:58:SER:HB2	17:Q1:70:LYS:HE2	1.66	0.76
17:Q1:104:LYS:CB	17:Q1:120:ILE:HD11	2.15	0.76
17:Q1:700:GLU:OE1	17:Q1:758:ILE:HA	1.85	0.76
17:Q1:896:TYR:CG	17:Q1:933:LEU:HD12	2.21	0.76
17:Q2:651:ASN:HA	17:Q2:654:VAL:HG22	1.66	0.76
25:X2:694:ASP:OD2	27:Z2:580:LYS:NZ	2.17	0.76
26:Y1:1363:LEU:CD2	26:Y1:1366:LEU:HD12	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:352:GLU:CD	27:Z1:410:PHE:CZ	2.50	0.76
27:Z2:352:GLU:CD	27:Z2:410:PHE:CZ	2.49	0.76
27:Z2:580:LYS:C	27:Z2:581:PHE:CA	2.57	0.76
9:I1:1314:LEU:HD22	15:O1:266:GLN:HE21	1.51	0.76
9:I2:1026:TYR:CD1	13:M3:612:PRO:N	2.42	0.76
9:I2:1029:LEU:CD2	13:M3:613:ASP:OD2	2.34	0.76
17:Q1:228:ILE:CD1	17:Q1:248:LEU:HB2	2.16	0.76
17:Q1:540:HIS:CD2	17:Q1:544:LYS:HD2	2.20	0.76
17:Q1:595:ASN:O	17:Q1:598:ILE:HG22	1.84	0.76
17:Q1:1071:PRO:HB3	17:Q1:1155:VAL:HG23	1.67	0.76
17:Q2:264:ASN:HB3	17:Q2:289:LYS:HD3	1.67	0.76
26:Y1:1220:THR:O	26:Y1:1224:GLU:HG3	1.86	0.76
26:Y1:1299:VAL:O	26:Y1:1303:ILE:HG12	1.84	0.76
26:Y2:1332:LYS:CB	27:Z1:109:PHE:HZ	1.99	0.76
27:Z1:26:ILE:HG22	27:Z1:440:MET:HE2	0.79	0.76
27:Z1:133:HIS:CE1	27:Z1:211:PHE:HD1	2.02	0.76
27:Z1:137:TYR:HB2	27:Z1:269:LYS:CE	2.16	0.76
27:Z1:209:TYR:CB	27:Z1:210:PRO:HD2	1.84	0.76
27:Z2:145:LEU:HD21	27:Z2:182:ILE:CG2	2.16	0.76
27:Z2:192:LEU:HD11	27:Z2:226:ILE:HD13	1.67	0.76
27:Z2:428:TYR:HH	27:Z2:435:SER:CB	1.99	0.76
1:A2:1200:ARG:HG3	1:A1:595:GLU:HB3	1.67	0.76
1:A3:1200:ARG:CB	1:A4:591:ASP:CB	2.60	0.76
1:A3:1223:GLU:HB3	1:A4:648:TYR:CE2	1.32	0.76
1:A4:715:GLU:CD	4:D3:970:MET:HA	2.09	0.76
1:A4:827:ILE:HD13	1:A4:849:SER:CB	2.16	0.76
9:I1:917:TYR:HD1	13:M1:534:GLN:OE1	1.22	0.76
9:I1:967:SER:HG	15:O1:178:ASP:HA	1.50	0.76
9:I1:1038:ILE:CG1	15:O1:179:LEU:HD11	1.93	0.76
9:I2:809:HIS:HB3	15:O3:244:GLU:N	1.82	0.76
9:I2:911:PRO:CB	15:O3:197:ARG:CG	2.62	0.76
9:I2:1099:ARG:HH12	13:M3:609:GLY:C	1.94	0.76
17:Q1:587:LEU:O	17:Q1:587:LEU:HD23	1.86	0.76
17:Q1:929:LEU:HD23	18:R1:714:TYR:CZ	2.20	0.76
17:Q1:1068:GLU:HB2	17:Q1:1070:LEU:CD2	2.12	0.76
25:X1:789:GLU:C	27:Z1:669:THR:O	2.12	0.76
25:X1:807:LEU:HD22	27:Z1:698:ASN:HA	1.63	0.76
25:X2:778:LYS:CE	25:X2:791:ILE:CG2	2.55	0.76
26:Y1:1291:LEU:HD13	27:Z1:581:PHE:HD1	1.48	0.76
26:Y1:1342:GLN:O	26:Y1:1346:ARG:HG3	1.86	0.76
26:Y2:1220:THR:O	26:Y2:1224:GLU:HG3	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1288:ILE:CD1	27:Z2:7:LEU:N	2.45	0.76
26:Y2:1332:LYS:CE	27:Z1:97:TYR:O	2.34	0.76
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CH2	2.20	0.76
27:Z1:303:ALA:HB3	27:Z1:363:LEU:HD22	1.58	0.76
27:Z1:363:LEU:CD2	27:Z1:373:LEU:HD11	2.16	0.76
27:Z1:580:LYS:C	27:Z1:581:PHE:CA	2.57	0.76
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HG	1.66	0.76
1:A2:1224:PRO:C	1:A1:648:TYR:HE2	1.94	0.76
1:A3:871:ASN:CG	4:D1:515:ASN:ND2	2.43	0.76
1:A3:1088:ASN:C	4:D3:1101:HIS:CE1	2.59	0.76
9:I1:1357:LYS:HE3	15:O1:263:GLN:O	1.86	0.76
18:R1:582:GLU:HG2	18:R1:586:GLN:OE1	1.85	0.76
20:S2:416:ASP:HA	20:S2:443:THR:HG21	1.66	0.76
23:V2:141:ASN:O	23:V2:145:ASN:ND2	2.18	0.76
24:W1:401:THR:O	24:W1:720:PHE:O	2.03	0.76
25:X1:742:GLN:HG3	25:X1:743:GLN:CA	2.03	0.76
25:X2:695:GLN:HB2	27:Z2:48:VAL:HG13	1.64	0.76
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:NZ	2.01	0.76
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:CE1	2.12	0.76
27:Z1:148:ASP:CB	27:Z1:150:THR:HG23	2.15	0.76
27:Z2:129:LYS:CG	27:Z2:145:LEU:HB3	2.13	0.76
27:Z2:149:ASP:OD2	27:Z2:182:ILE:CB	2.31	0.76
1:A3:1332:ARG:NH1	4:D3:899:THR:CA	2.47	0.76
6:F1:1528:ALA:O	1:A1:1099:GLN:NE2	2.15	0.76
14:N1:464:LEU:HD11	14:N4:442:GLU:OE1	1.84	0.76
17:Q1:557:LEU:HD21	17:Q1:598:ILE:CG2	2.16	0.76
17:Q1:903:LEU:HD12	17:Q1:926:VAL:HG13	1.68	0.76
17:Q2:276:LEU:HD13	17:Q2:296:GLN:NE2	2.01	0.76
19:R2:613:ILE:HG23	19:R2:614:PRO:HD3	1.66	0.76
19:R2:664:LEU:HD12	19:R2:705:PHE:HZ	1.51	0.76
26:Y1:1235:MET:O	26:Y1:1239:PHE:CE2	2.39	0.76
27:Z1:145:LEU:HD21	27:Z1:182:ILE:CG2	2.16	0.76
27:Z1:192:LEU:HD11	27:Z1:226:ILE:HD13	1.67	0.76
27:Z1:293:GLU:O	27:Z1:296:ASP:OD1	2.03	0.76
27:Z1:395:LYS:CG	27:Z2:266:ARG:CG	2.63	0.76
27:Z2:31:ASN:C	27:Z2:368:GLU:OE2	2.28	0.76
27:Z2:112:PHE:HB2	27:Z2:156:ILE:HG23	1.68	0.76
27:Z2:133:HIS:ND1	27:Z2:211:PHE:CE1	2.52	0.76
27:Z2:182:ILE:O	27:Z2:182:ILE:CG2	2.21	0.76
27:Z2:211:PHE:HD1	27:Z2:211:PHE:O	1.69	0.76
9:I1:916:ALA:C	13:M1:534:GLN:HE21	1.93	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1034:ASP:CG	16:P1:144:ASP:O	2.29	0.75
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD13	1.93	0.75
9:I1:1048:GLU:CB	14:N1:293:LYS:CE	2.63	0.75
9:I2:1168:ALA:CB	15:O3:269:ILE:O	2.17	0.75
10:J1:252:LEU:HD22	15:O1:269:ILE:O	1.86	0.75
17:Q2:564:PHE:HZ	17:Q2:588:ILE:HD13	1.50	0.75
17:Q2:587:LEU:O	17:Q2:587:LEU:HD23	1.86	0.75
17:Q2:1043:ARG:HH12	17:Q2:1113:ILE:HG23	1.49	0.75
19:R2:628:PHE:CZ	19:R2:629:GLU:HG2	2.20	0.75
22:U1:245:ILE:HG13	27:Z1:657:TYR:HE1	1.51	0.75
24:W1:527:SER:CB	24:W1:739:PHE:O	2.35	0.75
25:X1:644:TRP:CD1	25:X1:648:LEU:HD11	2.18	0.75
26:Y2:1218:PHE:HE1	26:Y2:1222:GLU:CD	1.88	0.75
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:CD2	2.16	0.75
26:Y2:1332:LYS:CA	26:Y2:1333:ASP:H	1.98	0.75
26:Y2:1410:GLN:CA	27:Z2:711:LYS:HE3	2.15	0.75
27:Z1:184:ASP:OD2	27:Z1:197:LEU:HB3	1.85	0.75
29:b1:71:HIS:CB	29:b1:76:PHE:HD1	1.99	0.75
29:b2:10:ILE:HG21	29:b2:12:LYS:HE2	1.66	0.75
29:b2:55:ASN:HA	29:b2:55:ASN:H	1.49	0.75
1:A1:827:ILE:HD13	1:A1:849:SER:CB	2.16	0.75
1:A2:777:LEU:HD12	1:A2:822:ILE:HD11	1.66	0.75
1:A2:1221:ILE:CG1	1:A1:596:ARG:CD	2.63	0.75
4:D1:973:GLN:NE2	1:A1:843:ARG:HH22	1.84	0.75
6:F1:267:GLU:CB	11:K1:637:SER:OG	2.22	0.75
7:G1:256:GLN:N	15:O2:245:GLU:HB2	2.01	0.75
9:I1:977:ASN:CG	15:O1:174:LEU:C	2.46	0.75
9:I1:1049:LEU:CD2	15:O1:170:LEU:HD22	2.15	0.75
9:I2:1307:LEU:CA	14:N3:414:ALA:O	2.34	0.75
17:Q1:382:ARG:HB3	17:Q1:508:ASN:O	1.85	0.75
17:Q2:530:ASP:O	17:Q2:534:THR:HG23	1.85	0.75
17:Q2:798:LYS:NZ	17:Q2:822:ASP:HB3	2.01	0.75
17:Q2:843:PHE:HE1	17:Q2:875:PHE:HZ	1.32	0.75
17:Q2:929:LEU:HD22	19:R2:691:THR:CB	2.16	0.75
17:Q2:980:ILE:O	17:Q2:983:VAL:HG22	1.86	0.75
19:R2:582:GLU:HG2	19:R2:586:GLN:OE1	1.85	0.75
22:U1:290:SER:OG	25:X1:798:ASN:CB	2.27	0.75
22:U1:296:LEU:C	27:Z1:653:GLN:O	2.28	0.75
24:W1:525:LEU:C	24:W1:743:ASN:CB	2.54	0.75
25:X1:772:VAL:CG1	27:Z1:662:LEU:HD12	2.16	0.75
25:X2:640:LEU:HB3	26:Y2:1218:PHE:HZ	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:129:LYS:CG	27:Z1:145:LEU:HB3	2.13	0.75
27:Z1:302:ILE:O	27:Z1:302:ILE:HG13	1.85	0.75
27:Z2:144:VAL:HB	27:Z2:152:THR:OG1	1.86	0.75
27:Z2:282:GLN:OE1	27:Z2:333:MET:HE3	1.85	0.75
29:b1:65:PHE:CE2	29:b1:87:LEU:CD1	2.64	0.75
1:A3:873:PRO:HB2	4:D1:532:LEU:HD21	1.67	0.75
9:I1:980:ILE:CG1	15:O1:172:ALA:HA	2.16	0.75
9:I2:902:GLN:HB3	13:M3:580:LYS:HB3	0.76	0.75
9:I2:921:GLU:N	16:P3:157:GLU:OE2	2.19	0.75
9:I2:1023:ASP:O	13:M3:612:PRO:HG2	1.85	0.75
9:I2:1049:LEU:HD12	16:P3:142:LEU:CA	2.16	0.75
17:Q1:584:LYS:HB3	17:Q1:586:ASP:HB2	1.67	0.75
17:Q1:979:SER:HB2	17:Q1:1104:ILE:HG21	1.69	0.75
17:Q2:210:LEU:HD11	17:Q2:212:LEU:CD2	2.16	0.75
17:Q2:584:LYS:HB3	17:Q2:586:ASP:HB2	1.67	0.75
25:X2:695:GLN:HG3	27:Z2:431:TRP:CE3	2.15	0.75
26:Y1:1437:VAL:HG21	26:Y2:1429:LYS:HE2	1.68	0.75
26:Y2:1368:LEU:HB3	26:Y2:1382:VAL:C	2.10	0.75
27:Z1:10:LEU:HD22	27:Z1:431:TRP:CZ2	2.21	0.75
27:Z1:31:ASN:C	27:Z1:368:GLU:OE2	2.28	0.75
27:Z1:144:VAL:HB	27:Z1:152:THR:OG1	1.86	0.75
27:Z1:642:ASN:O	27:Z1:644:PHE:N	2.19	0.75
27:Z2:133:HIS:CE1	27:Z2:211:PHE:HD1	2.02	0.75
1:A2:1091:VAL:HA	4:D1:1104:GLU:CD	2.10	0.75
6:F1:142:ALA:CB	9:I1:1391:THR:O	2.33	0.75
7:G2:254:ASN:ND2	15:O4:256:TYR:CB	2.26	0.75
9:I1:1051:LYS:CB	14:N1:293:LYS:HZ3	1.99	0.75
9:I2:1098:LEU:CB	15:O3:269:ILE:N	2.48	0.75
17:Q2:228:ILE:CD1	17:Q2:248:LEU:HB2	2.16	0.75
25:X1:788:ASP:O	25:X1:788:ASP:N	2.20	0.75
25:X2:778:LYS:O	27:Z2:680:TRP:CH2	2.39	0.75
27:Z1:24:ARG:HD3	27:Z1:441:SER:C	2.11	0.75
27:Z1:282:GLN:OE1	27:Z1:333:MET:HE3	1.85	0.75
27:Z1:359:GLU:CD	27:Z1:361:LYS:CE	2.56	0.75
27:Z2:46:TYR:CE1	27:Z2:48:VAL:HG22	2.19	0.75
28:a2:972:ILE:HD11	28:a2:1019:LEU:HB2	1.69	0.75
29:b2:42:ALA:HB1	29:b2:59:VAL:CG2	2.13	0.75
1:A2:1328:ARG:CG	4:D1:898:ASP:OD2	2.35	0.75
6:F1:161:ALA:HB3	9:I1:1336:MET:H	1.52	0.75
9:I1:977:ASN:CG	15:O1:177:HIS:N	2.44	0.75
9:I1:1046:HIS:HE1	15:O1:168:ALA:CA	1.97	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:899:LEU:HB3	13:M3:581:LEU:HA	1.69	0.75
10:J1:252:LEU:HD21	15:O1:269:ILE:CG2	2.12	0.75
17:Q1:564:PHE:HZ	17:Q1:588:ILE:HD13	1.50	0.75
17:Q2:456:ILE:HG13	17:Q2:468:LEU:HB2	1.67	0.75
17:Q2:545:TYR:CD2	17:Q2:546:ILE:HD12	2.21	0.75
17:Q2:557:LEU:HG	17:Q2:560:ARG:NH1	2.02	0.75
17:Q2:557:LEU:HD21	17:Q2:598:ILE:CG2	2.16	0.75
17:Q2:896:TYR:CG	17:Q2:933:LEU:HD12	2.21	0.75
19:R2:621:GLN:HB3	19:R2:670:LYS:NZ	2.01	0.75
25:X1:658:TYR:CD2	27:Z1:549:ILE:CD1	2.62	0.75
25:X1:815:GLU:N	26:Y1:1402:LEU:HD21	2.02	0.75
25:X2:717:LYS:HE3	26:Y2:1320:LEU:CD1	2.13	0.75
25:X2:778:LYS:NZ	25:X2:795:LYS:HE2	1.97	0.75
26:Y2:1123:GLN:HG2	29:b1:39:ARG:HB2	1.67	0.75
26:Y2:1230:GLU:CG	26:Y2:1233:ARG:HH22	1.96	0.75
26:Y2:1342:GLN:OE1	27:Z2:634:ILE:HG13	1.85	0.75
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:N	2.00	0.75
27:Z1:383:GLN:NE2	27:Z1:417:ILE:HG21	2.00	0.75
27:Z1:395:LYS:HG3	27:Z2:266:ARG:HG2	1.68	0.75
27:Z1:522:GLU:O	27:Z1:526:GLU:CD	2.28	0.75
27:Z2:26:ILE:HD12	27:Z2:37:PHE:HE1	1.50	0.75
27:Z2:209:TYR:CZ	27:Z2:335:MET:CA	2.69	0.75
27:Z2:312:ASN:HD21	27:Z2:397:ILE:CD1	2.00	0.75
27:Z2:522:GLU:HG3	27:Z2:524:GLN:H	1.50	0.75
1:A3:1221:ILE:O	1:A4:599:ARG:HB2	1.86	0.75
1:A3:1400:SER:O	4:D3:873:GLN:HB3	1.86	0.75
4:D1:969:HIS:ND1	1:A1:711:VAL:CG2	2.48	0.75
9:I1:966:TRP:HZ3	15:O1:179:LEU:HB3	1.45	0.75
9:I2:900:ARG:HD3	15:O3:235:ASN:N	2.02	0.75
9:I2:928:LEU:CB	15:O3:179:LEU:HD22	2.16	0.75
17:Q2:742:LEU:CA	17:Q2:745:ILE:HD12	2.14	0.75
19:R2:621:GLN:O	19:R2:625:LYS:HG2	1.85	0.75
19:R2:677:LEU:HD12	19:R2:684:ILE:CG2	2.17	0.75
20:S1:416:ASP:HA	20:S1:443:THR:HG21	1.66	0.75
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CE2	2.21	0.75
25:X2:688:HIS:CG	27:Z2:445:LEU:HD11	2.21	0.75
26:Y2:1431:MET:N	26:Y2:1434:PHE:CD2	2.49	0.75
27:Z1:188:SER:OG	27:Z1:195:TYR:CE2	2.29	0.75
27:Z1:289:PRO:CD	27:Z1:289:PRO:N	2.46	0.75
27:Z2:383:GLN:NE2	27:Z2:417:ILE:CG1	2.48	0.75
29:b1:71:HIS:HB3	29:b1:76:PHE:CE1	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:135:VAL:HG12	9:I1:1336:MET:HG2	0.77	0.75
6:F2:142:ALA:C	9:I2:1395:LEU:HD23	1.81	0.75
9:I1:912:VAL:CB	13:M1:542:ASP:OD1	2.34	0.75
9:I1:913:ALA:H	13:M1:541:LEU:HD22	1.49	0.75
9:I2:803:ASP:OD1	15:O3:251:ILE:HD13	1.87	0.75
9:I2:928:LEU:HB3	15:O3:179:LEU:CD1	2.00	0.75
9:I2:964:SER:H	16:P3:152:LYS:H	1.26	0.75
9:I2:1103:LEU:CA	15:O3:275:LEU:HD23	2.13	0.75
9:I2:1103:LEU:CG	13:M3:614:ASP:CB	2.64	0.75
9:I2:1109:LEU:CD2	15:O3:284:LYS:HZ3	2.00	0.75
17:Q1:585:LEU:O	17:Q1:588:ILE:HG22	1.86	0.75
17:Q1:1148:ILE:CD1	17:Q1:1155:VAL:HG12	2.15	0.75
17:Q2:60:VAL:CG2	17:Q2:63:GLU:HG3	2.17	0.75
18:R1:677:LEU:HD12	18:R1:684:ILE:CG2	2.17	0.75
20:S2:292:ILE:HD12	20:S2:292:ILE:H	1.52	0.75
22:U1:209:PRO:CB	27:Z1:662:LEU:HB2	2.14	0.75
22:U1:299:GLU:CB	27:Z1:652:GLN:C	2.59	0.75
26:Y1:1449:ILE:O	26:Y1:1453:PHE:CD2	2.40	0.75
26:Y2:1332:LYS:HD2	27:Z1:94:PRO:CG	1.99	0.75
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HG	1.66	0.75
27:Z2:205:ILE:O	27:Z2:206:PHE:HD1	1.69	0.75
27:Z2:287:ILE:HD11	27:Z2:348:LEU:CD1	2.15	0.75
29:b2:77:VAL:HG21	29:b2:79:PHE:HE1	1.51	0.75
4:D1:1030:ALA:HB1	1:A1:633:MET:HE2	1.67	0.75
6:F1:156:LEU:HD12	9:I1:1340:LEU:CD2	2.15	0.75
7:G2:250:THR:N	15:O4:254:ARG:CD	2.49	0.75
7:G2:254:ASN:ND2	15:O4:256:TYR:CA	2.50	0.75
9:I2:914:ASN:CG	15:O3:194:GLU:OE1	2.30	0.75
9:I2:976:ARG:N	14:N3:297:ALA:C	2.44	0.75
9:I2:976:ARG:N	14:N3:297:ALA:O	2.19	0.75
9:I2:976:ARG:NE	14:N3:293:LYS:HG2	1.82	0.75
17:Q1:827:THR:CA	17:Q1:830:SER:HB2	2.16	0.75
17:Q2:585:LEU:O	17:Q2:588:ILE:HG22	1.87	0.75
17:Q2:827:THR:CA	17:Q2:830:SER:HB2	2.16	0.75
18:R1:70:LEU:HD22	18:R1:343:ILE:HD11	1.68	0.75
18:R1:621:GLN:HB3	18:R1:670:LYS:NZ	2.01	0.75
22:U1:292:LEU:C	25:X1:802:ASP:OD2	2.29	0.75
25:X1:793:LEU:HD22	27:Z1:680:TRP:NE1	2.02	0.75
25:X1:815:GLU:HG2	26:Y1:1402:LEU:HG	1.63	0.75
25:X2:695:GLN:NE2	27:Z2:429:ILE:HG21	2.02	0.75
26:Y2:1316:GLU:HG3	27:Z2:609:LEU:CD2	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1333:ASP:H	27:Z1:94:PRO:N	1.74	0.75
26:Y2:1333:ASP:C	27:Z1:109:PHE:HA	1.83	0.75
26:Y2:1399:ILE:HG12	27:Z2:701:LEU:HD21	1.68	0.75
27:Z1:205:ILE:HG22	27:Z1:285:PHE:HD2	1.51	0.75
27:Z1:252:GLN:HA	27:Z1:335:MET:SD	2.27	0.75
27:Z2:172:SER:OG	27:Z2:177:ALA:HB2	1.84	0.75
27:Z2:343:VAL:CA	27:Z2:346:ASN:HD21	2.00	0.75
27:Z2:416:ASP:CB	27:Z2:569:LYS:HZ3	1.92	0.75
1:A3:1091:VAL:CG1	4:D3:1100:PRO:HG2	2.16	0.75
6:F1:982:PRO:HB2	9:I1:1459:ASN:HD21	1.49	0.75
7:G1:256:GLN:NE2	7:G1:263:MET:SD	2.60	0.75
9:I1:961:ARG:HD3	15:O1:186:PHE:C	1.94	0.75
9:I2:806:VAL:CB	15:O3:247:TRP:HB3	2.15	0.75
9:I2:964:SER:H	16:P3:152:LYS:CG	1.88	0.75
9:I2:1048:GLU:CD	14:N3:293:LYS:CE	2.59	0.75
9:I2:1108:PRO:HB3	15:O3:278:GLU:O	1.86	0.75
9:I2:1168:ALA:HB3	15:O3:269:ILE:C	2.05	0.75
9:I2:1308:THR:HG22	14:N3:414:ALA:HB2	1.67	0.75
17:Q1:210:LEU:HD11	17:Q1:212:LEU:CD2	2.16	0.75
17:Q1:264:ASN:HB3	17:Q1:289:LYS:HD3	1.67	0.75
17:Q1:599:LYS:O	17:Q1:603:ILE:HG13	1.87	0.75
17:Q1:641:VAL:O	17:Q1:645:ILE:HG22	1.86	0.75
17:Q2:870:VAL:HA	17:Q2:873:GLN:HG2	1.68	0.75
25:X1:815:GLU:N	26:Y1:1402:LEU:CD2	2.50	0.75
25:X2:777:ASN:CB	25:X2:793:LEU:HB3	2.17	0.75
26:Y2:1332:LYS:CG	27:Z1:97:TYR:H	1.98	0.75
27:Z1:24:ARG:HH22	27:Z1:440:MET:HG2	1.51	0.75
27:Z1:207:ALA:CB	27:Z1:285:PHE:HZ	2.00	0.75
27:Z1:216:LEU:HD11	27:Z1:272:ILE:HD13	1.63	0.75
27:Z1:216:LEU:HD21	27:Z1:272:ILE:HD13	1.67	0.75
27:Z1:244:ILE:HG13	27:Z1:344:TYR:HH	1.52	0.75
27:Z1:541:LYS:HE2	27:Z2:553:ILE:CG1	1.99	0.75
27:Z2:184:ASP:OD2	27:Z2:197:LEU:HB3	1.85	0.75
27:Z2:252:GLN:HA	27:Z2:335:MET:SD	2.26	0.75
29:b2:72:GLU:CG	29:b2:75:HIS:ND1	2.46	0.75
1:A2:1226:LEU:HD23	1:A1:647:GLU:CG	2.17	0.74
1:A3:1272:GLY:CA	1:A4:727:ASN:HB3	2.17	0.74
9:I1:1048:GLU:OE2	15:O1:170:LEU:CA	2.35	0.74
9:I2:1030:ARG:NH2	13:M3:607:SER:CB	2.49	0.74
17:Q2:705:LYS:NZ	17:Q2:710:ILE:HG21	2.01	0.74
17:Q2:746:VAL:HG22	17:Q2:750:TYR:HE2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:837:ASN:HA	17:Q2:842:GLU:HB2	1.67	0.74
17:Q2:979:SER:HB2	17:Q2:1104:ILE:HG21	1.69	0.74
19:R2:70:LEU:HD22	19:R2:343:ILE:HD11	1.68	0.74
19:R2:514:VAL:HB	19:R2:549:PHE:CZ	2.22	0.74
19:R2:677:LEU:HD12	19:R2:684:ILE:HG22	1.67	0.74
25:X1:644:TRP:HZ3	26:Y1:1225:PHE:CB	2.00	0.74
25:X2:680:TYR:OH	27:Z2:439:LEU:CG	2.34	0.74
25:X2:695:GLN:CD	27:Z2:431:TRP:CD2	2.64	0.74
25:X2:726:VAL:HG12	25:X2:726:VAL:O	1.84	0.74
25:X2:821:ILE:HG21	26:Y2:1409:LEU:CG	2.16	0.74
27:Z1:359:GLU:HG2	27:Z1:361:LYS:HE3	1.69	0.74
27:Z2:207:ALA:CB	27:Z2:285:PHE:HZ	2.00	0.74
27:Z2:208:PHE:CE2	27:Z2:279:ALA:O	2.40	0.74
27:Z2:368:GLU:OE1	27:Z2:428:TYR:CE2	2.40	0.74
1:A2:1273:ALA:H	1:A1:646:ILE:HD11	1.50	0.74
6:F2:159:ALA:O	9:I2:1197:ASN:HA	1.87	0.74
9:I1:838:GLU:C	15:O1:198:ARG:HH22	1.95	0.74
10:J2:248:VAL:HG22	14:N3:428:ASP:OD2	1.88	0.74
17:Q1:700:GLU:HB3	17:Q1:758:ILE:CG1	2.18	0.74
17:Q1:980:ILE:O	17:Q1:983:VAL:HG22	1.86	0.74
17:Q2:279:GLY:C	17:Q2:299:ALA:HA	2.12	0.74
17:Q2:426:ILE:HG21	17:Q2:477:PHE:HE2	1.51	0.74
17:Q2:426:ILE:HD12	17:Q2:479:VAL:HG22	1.69	0.74
19:R2:511:ILE:O	19:R2:514:VAL:HG12	1.87	0.74
19:R2:674:ALA:HB1	19:R2:676:LYS:HG2	1.67	0.74
20:S1:568:ALA:CA	21:T1:86:ASN:OD1	2.35	0.74
25:X1:800:HIS:CD2	27:Z1:694:ILE:HD12	2.20	0.74
25:X1:821:ILE:HG21	26:Y1:1409:LEU:CG	2.16	0.74
25:X2:680:TYR:OH	27:Z2:439:LEU:HG	1.87	0.74
27:Z1:10:LEU:HD23	27:Z1:431:TRP:HH2	1.46	0.74
27:Z1:403:ASN:N	27:Z2:262:ASN:OD1	2.03	0.74
28:a1:972:ILE:HD11	28:a1:1019:LEU:HB2	1.69	0.74
6:F1:1046:HIS:CD2	9:I1:1390:PHE:CE2	2.75	0.74
7:G1:253:SER:HB2	13:M2:595:MET:CE	2.17	0.74
7:G1:255:LEU:HD22	15:O2:244:GLU:N	2.01	0.74
7:G2:256:GLN:NE2	7:G2:263:MET:SD	2.60	0.74
9:I1:918:SER:CB	15:O1:193:ALA:HB2	2.12	0.74
17:Q1:528:GLU:HA	17:Q1:579:ILE:HG13	1.69	0.74
17:Q1:557:LEU:HG	17:Q1:560:ARG:NH1	2.02	0.74
17:Q1:987:LEU:HB2	17:Q1:1005:LEU:HD23	1.69	0.74
17:Q2:120:ILE:HD13	17:Q2:121:THR:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:599:LYS:O	17:Q2:603:ILE:HG13	1.87	0.74
17:Q2:903:LEU:HD12	17:Q2:926:VAL:HG13	1.68	0.74
18:R1:438:GLU:O	18:R1:442:LEU:HB2	1.87	0.74
18:R1:532:ALA:HA	18:R1:535:ARG:NE	2.02	0.74
19:R2:250:LEU:HD13	20:S2:317:GLY:HA3	1.70	0.74
19:R2:555:ILE:HD13	19:R2:555:ILE:O	1.85	0.74
19:R2:664:LEU:HB3	19:R2:690:PHE:CZ	2.22	0.74
20:S1:568:ALA:CA	21:T1:86:ASN:CG	2.46	0.74
22:U1:340:LYS:HG3	27:Z1:646:HIS:NE2	2.02	0.74
25:X1:662:ILE:HD12	27:Z1:549:ILE:HG23	1.69	0.74
25:X2:644:TRP:HZ3	26:Y2:1225:PHE:CB	2.00	0.74
26:Y1:1118:ALA:HB1	29:b1:71:HIS:CD2	2.21	0.74
26:Y2:1316:GLU:HG2	27:Z2:609:LEU:CD1	2.17	0.74
27:Z1:403:ASN:N	27:Z2:262:ASN:ND2	2.21	0.74
1:A3:1083:SER:O	4:D3:1095:ARG:HD2	1.87	0.74
6:F1:273:ALA:H	9:I1:1208:LEU:C	1.89	0.74
9:I2:925:LEU:HD11	15:O3:186:PHE:N	2.02	0.74
9:I2:963:LEU:H	16:P3:151:LYS:CD	2.01	0.74
9:I2:1099:ARG:NH1	13:M3:609:GLY:CA	2.49	0.74
9:I2:1099:ARG:CG	15:O3:268:GLY:CA	2.62	0.74
17:Q1:222:SER:CB	17:Q1:267:VAL:HG21	2.17	0.74
17:Q1:641:VAL:O	17:Q1:644:VAL:HG12	1.87	0.74
17:Q1:728:ALA:O	17:Q1:732:GLU:HG3	1.88	0.74
17:Q1:792:LEU:O	17:Q1:795:VAL:HG12	1.88	0.74
19:R2:580:PHE:O	19:R2:584:ILE:HG13	1.87	0.74
22:U1:212:LYS:HZ1	25:X1:768:GLU:CB	2.00	0.74
22:U1:289:GLN:CA	25:X1:798:ASN:N	2.50	0.74
22:U1:295:GLU:HA	27:Z1:658:LEU:HG	1.70	0.74
25:X1:721:LEU:CD2	26:Y1:1319:PHE:HD2	2.00	0.74
25:X2:721:LEU:CD2	26:Y2:1319:PHE:HD2	2.00	0.74
25:X2:815:GLU:N	26:Y2:1402:LEU:HD21	2.02	0.74
27:Z1:46:TYR:CE1	27:Z1:48:VAL:HG22	2.19	0.74
27:Z1:165:VAL:CG1	27:Z1:168:LYS:HE2	2.17	0.74
27:Z1:205:ILE:O	27:Z1:206:PHE:HD1	1.70	0.74
27:Z1:209:TYR:CZ	27:Z1:335:MET:CA	2.69	0.74
27:Z1:358:ARG:NH1	27:Z1:382:GLN:NE2	2.35	0.74
29:b2:55:ASN:HD21	29:b2:90:LYS:HG3	1.52	0.74
29:b2:63:LYS:CD	29:b2:83:PRO:O	2.35	0.74
1:A3:1331:GLU:CG	4:D3:873:GLN:C	2.61	0.74
9:I1:899:LEU:HG	15:O1:197:ARG:NH2	2.03	0.74
9:I2:902:GLN:CB	13:M3:580:LYS:HB2	1.64	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:748:ILE:HD13	17:Q1:748:ILE:O	1.88	0.74
17:Q1:900:MET:CG	17:Q1:900:MET:CE	2.65	0.74
17:Q2:641:VAL:O	17:Q2:644:VAL:HG12	1.86	0.74
18:R1:674:ALA:HB1	18:R1:676:LYS:HG2	1.67	0.74
22:U1:248:LYS:C	25:X1:805:ARG:HB2	2.12	0.74
23:V2:152:LEU:HD21	23:V2:182:LEU:HB3	1.70	0.74
25:X1:790:ASN:CA	27:Z1:680:TRP:HZ2	2.00	0.74
25:X2:815:GLU:N	26:Y2:1402:LEU:CD2	2.51	0.74
26:Y1:1399:ILE:HG12	27:Z1:701:LEU:HD21	1.69	0.74
27:Z1:24:ARG:HD3	27:Z1:441:SER:O	1.87	0.74
27:Z1:112:PHE:HB2	27:Z1:156:ILE:HG23	1.68	0.74
27:Z1:211:PHE:HD1	27:Z1:211:PHE:O	1.69	0.74
27:Z1:401:ASP:O	27:Z2:262:ASN:CB	2.36	0.74
27:Z2:26:ILE:HD12	27:Z2:37:PHE:CE1	2.22	0.74
27:Z2:252:GLN:CB	27:Z2:335:MET:CE	2.66	0.74
27:Z2:522:GLU:HG3	27:Z2:523:ASN:CA	2.17	0.74
1:A3:1401:VAL:C	4:D3:873:GLN:HE22	1.96	0.74
6:F1:267:GLU:OE1	9:I1:1202:VAL:HG13	1.88	0.74
7:G2:251:TYR:N	15:O4:251:ILE:HG22	2.03	0.74
9:I1:911:PRO:O	13:M1:541:LEU:HD23	1.87	0.74
9:I2:767:ASP:OD1	9:I2:771:ASN:ND2	2.20	0.74
9:I2:1102:GLN:CD	15:O3:274:GLY:H	1.96	0.74
17:Q1:528:GLU:HB2	17:Q1:579:ILE:HD12	1.70	0.74
17:Q1:543:GLY:HA3	17:Q1:591:PHE:HZ	1.52	0.74
17:Q1:746:VAL:HG22	17:Q1:750:TYR:HE2	1.52	0.74
17:Q1:827:THR:HA	17:Q1:830:SER:CB	2.18	0.74
17:Q1:972:CYS:HB3	17:Q1:975:PHE:HD2	1.50	0.74
17:Q1:1016:PHE:HZ	17:Q1:1068:GLU:HG3	1.50	0.74
17:Q2:684:GLU:O	17:Q2:688:THR:HB	1.87	0.74
17:Q2:792:LEU:O	17:Q2:795:VAL:HG12	1.88	0.74
17:Q2:1152:THR:OG1	17:Q2:1154:THR:HG22	1.87	0.74
18:R1:511:ILE:O	18:R1:514:VAL:HG12	1.87	0.74
18:R1:664:LEU:HB3	18:R1:690:PHE:CZ	2.22	0.74
18:R1:664:LEU:HD12	18:R1:705:PHE:HZ	1.51	0.74
20:S1:292:ILE:HD12	20:S1:292:ILE:H	1.52	0.74
25:X1:789:GLU:CD	27:Z1:680:TRP:CD1	2.65	0.74
26:Y2:1333:ASP:HA	27:Z1:92:GLU:O	1.88	0.74
27:Z1:387:MET:HE3	27:Z1:391:SER:CA	2.16	0.74
27:Z2:422:ARG:NH2	27:Z2:442:ASN:HD21	1.86	0.74
29:b1:42:ALA:O	29:b1:59:VAL:CG2	2.35	0.74
1:A4:928:GLY:CA	4:D3:807:GLU:OE1	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1304:ASN:ND2	15:O1:262:ASP:OD1	2.21	0.74
9:I2:888:GLU:OE2	13:M3:593:ALA:O	2.05	0.74
9:I2:1103:LEU:HD23	15:O3:275:LEU:HD22	1.67	0.74
17:Q1:69:VAL:HG12	17:Q1:477:PHE:CD1	2.20	0.74
17:Q1:426:ILE:HD12	17:Q1:479:VAL:HG22	1.69	0.74
17:Q1:545:TYR:CD2	17:Q1:546:ILE:HD12	2.21	0.74
17:Q1:571:VAL:HG23	17:Q1:577:TYR:OH	1.87	0.74
17:Q1:837:ASN:HA	17:Q1:842:GLU:HB2	1.67	0.74
17:Q1:936:LYS:HB2	17:Q1:940:ASP:OD2	1.87	0.74
18:R1:580:PHE:O	18:R1:584:ILE:HG13	1.88	0.74
18:R1:674:ALA:CB	18:R1:676:LYS:HG2	2.17	0.74
22:U1:294:VAL:CA	27:Z1:661:GLU:OE1	2.18	0.74
24:W1:525:LEU:O	24:W1:743:ASN:CB	2.36	0.74
25:X2:790:ASN:CG	27:Z2:680:TRP:CZ2	2.64	0.74
26:Y1:1294:LYS:HD3	27:Z1:588:TRP:CG	2.23	0.74
26:Y2:1124:THR:HG23	29:b2:65:PHE:O	1.87	0.74
26:Y2:1453:PHE:C	26:Y2:1455:ASN:OD1	2.29	0.74
27:Z1:368:GLU:OE1	27:Z1:428:TYR:CE2	2.40	0.74
27:Z1:540:VAL:N	27:Z2:551:ASN:HB3	2.02	0.74
27:Z2:437:LEU:HB2	27:Z2:448:GLN:CG	2.16	0.74
27:Z2:581:PHE:CA	27:Z2:581:PHE:C	2.61	0.74
29:b1:14:SER:HB2	29:b1:21:LYS:HE2	1.68	0.74
1:A2:1091:VAL:HA	4:D1:1104:GLU:HG2	1.70	0.74
1:A2:1200:ARG:CB	1:A1:591:ASP:O	2.36	0.74
1:A2:1201:ARG:CB	1:A1:648:TYR:CE1	2.53	0.74
1:A2:1224:PRO:C	1:A1:648:TYR:CE2	2.65	0.74
1:A2:1274:ASP:C	1:A1:642:ARG:NH1	2.46	0.74
7:G1:251:TYR:C	15:O2:247:TRP:N	2.24	0.74
9:I2:896:PRO:HD3	13:M3:588:MET:N	2.02	0.74
9:I2:914:ASN:CA	15:O3:194:GLU:H	2.01	0.74
9:I2:965:ALA:CB	16:P3:152:LYS:CD	2.64	0.74
9:I2:978:LYS:HD2	15:O3:179:LEU:H	1.53	0.74
9:I2:1049:LEU:HD22	14:N3:293:LYS:O	1.88	0.74
17:Q1:705:LYS:NZ	17:Q1:710:ILE:HG21	2.02	0.74
17:Q1:725:PHE:CD1	17:Q1:740:GLU:HG2	2.19	0.74
17:Q1:791:VAL:CG1	17:Q1:792:LEU:HD12	2.18	0.74
17:Q1:798:LYS:NZ	17:Q1:822:ASP:HB3	2.01	0.74
17:Q2:900:MET:CG	17:Q2:900:MET:CE	2.65	0.74
17:Q2:929:LEU:HD23	19:R2:714:TYR:CZ	2.22	0.74
18:R1:452:LEU:HD23	18:R1:452:LEU:H	1.53	0.74
18:R1:664:LEU:HD12	18:R1:705:PHE:CZ	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:674:ALA:CB	19:R2:676:LYS:HG2	2.17	0.74
26:Y2:1449:ILE:O	26:Y2:1453:PHE:CD2	2.39	0.74
27:Z1:331:LEU:HB3	27:Z1:345:ASN:HB3	1.70	0.74
27:Z1:431:TRP:CD1	27:Z1:436:ASN:HD21	2.06	0.74
27:Z1:581:PHE:CA	27:Z1:581:PHE:C	2.61	0.74
27:Z2:244:ILE:HG13	27:Z2:344:TYR:HH	1.53	0.74
27:Z2:294:LEU:HD23	27:Z2:353:ARG:NH2	1.99	0.74
29:b1:14:SER:HB2	29:b1:21:LYS:CE	2.16	0.74
1:A3:1271:ILE:HG12	1:A4:730:THR:HG22	1.69	0.74
6:F1:133:GLN:N	9:I1:1333:THR:HG21	2.02	0.74
6:F1:159:ALA:N	9:I1:1339:LEU:N	2.36	0.74
9:I1:1106:LYS:HB2	13:M1:613:ASP:OD2	1.87	0.74
9:I1:1311:LEU:CD2	15:O1:266:GLN:CA	2.65	0.74
9:I2:978:LYS:CD	15:O3:179:LEU:N	2.49	0.74
17:Q1:491:VAL:O	17:Q1:494:VAL:HG22	1.88	0.74
17:Q1:557:LEU:HD11	17:Q1:598:ILE:HG23	1.70	0.74
17:Q1:610:LEU:HD13	17:Q1:610:LEU:O	1.87	0.74
17:Q1:1152:THR:OG1	17:Q1:1154:THR:HG22	1.87	0.74
17:Q2:641:VAL:O	17:Q2:645:ILE:HG22	1.86	0.74
17:Q2:688:THR:HG23	17:Q2:692:GLU:CG	2.18	0.74
17:Q2:742:LEU:HA	17:Q2:745:ILE:CD1	2.13	0.74
17:Q2:748:ILE:HD13	17:Q2:748:ILE:O	1.87	0.74
17:Q2:936:LYS:HB2	17:Q2:940:ASP:OD2	1.87	0.74
17:Q2:996:VAL:O	17:Q2:997:VAL:HG22	1.87	0.74
26:Y1:1235:MET:C	26:Y1:1239:PHE:CD2	2.65	0.74
26:Y2:1118:ALA:CB	29:b2:71:HIS:CE1	2.71	0.74
26:Y2:1342:GLN:O	26:Y2:1346:ARG:HG3	1.86	0.74
26:Y2:1410:GLN:N	27:Z2:711:LYS:HE3	1.99	0.74
27:Z1:26:ILE:HD12	27:Z1:37:PHE:CE1	2.22	0.74
27:Z1:46:TYR:HE1	27:Z1:48:VAL:HG23	1.52	0.74
27:Z1:208:PHE:CE2	27:Z1:279:ALA:O	2.41	0.74
27:Z1:227:LEU:HD23	27:Z1:256:VAL:HG13	1.60	0.74
27:Z1:312:ASN:HD21	27:Z1:397:ILE:CD1	2.00	0.74
1:A2:1221:ILE:H	1:A1:596:ARG:HG2	1.51	0.74
1:A4:777:LEU:HD12	1:A4:822:ILE:HD11	1.66	0.74
6:F1:1265:GLN:HG3	15:O2:252:VAL:H	1.51	0.74
9:I1:767:ASP:OD1	9:I1:771:ASN:ND2	2.20	0.74
9:I1:912:VAL:N	13:M1:541:LEU:CD2	2.50	0.74
9:I2:903:GLY:HA2	13:M3:577:LEU:C	1.96	0.74
9:I2:1107:SER:CA	13:M3:615:PRO:CG	2.63	0.74
17:Q1:89:TYR:CD2	17:Q1:90:ILE:HG22	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:211:MET:C	17:Q1:212:LEU:HD22	2.13	0.74
17:Q1:616:LYS:CG	17:Q1:630:THR:HG21	2.17	0.74
17:Q1:971:ILE:HD11	17:Q1:984:PHE:CE2	2.23	0.74
17:Q2:222:SER:CB	17:Q2:267:VAL:HG21	2.17	0.74
17:Q2:610:LEU:HD13	17:Q2:610:LEU:O	1.87	0.74
17:Q2:928:LYS:CE	19:R2:695:ALA:HA	2.17	0.74
19:R2:510:LEU:CB	19:R2:533:LEU:HD13	2.18	0.74
19:R2:532:ALA:HA	19:R2:535:ARG:NE	2.02	0.74
19:R2:684:ILE:CD1	19:R2:688:LEU:HD21	2.18	0.74
22:U1:243:PHE:HD2	27:Z1:657:TYR:O	1.71	0.74
25:X2:790:ASN:ND2	27:Z2:680:TRP:HZ2	1.75	0.74
26:Y2:1236:ASP:CA	26:Y2:1239:PHE:CD2	2.69	0.74
26:Y2:1332:LYS:HD2	27:Z1:94:PRO:HG2	1.68	0.74
27:Z1:93:VAL:C	27:Z1:94:PRO:HD2	1.78	0.74
27:Z2:46:TYR:HE1	27:Z2:48:VAL:HG23	1.52	0.74
27:Z2:358:ARG:NH1	27:Z2:382:GLN:NE2	2.36	0.74
29:b1:71:HIS:CB	29:b1:76:PHE:CD1	2.70	0.74
29:b2:75:HIS:ND1	29:b2:90:LYS:CB	2.51	0.74
7:G1:251:TYR:HD2	15:O2:244:GLU:HA	1.49	0.73
9:I1:895:ARG:HD2	15:O1:197:ARG:HB2	1.68	0.73
9:I1:1308:THR:OG1	15:O1:265:ASN:ND2	2.21	0.73
9:I2:1162:TYR:CB	15:O3:266:GLN:NE2	2.50	0.73
17:Q1:684:GLU:O	17:Q1:688:THR:HB	1.87	0.73
17:Q1:870:VAL:HA	17:Q1:873:GLN:HG2	1.67	0.73
17:Q1:973:LYS:O	17:Q1:976:LYS:HG2	1.88	0.73
17:Q2:463:LYS:HE2	17:Q2:463:LYS:HA	1.69	0.73
17:Q2:528:GLU:HB2	17:Q2:579:ILE:HD12	1.70	0.73
17:Q2:987:LEU:HB2	17:Q2:1005:LEU:HD23	1.69	0.73
17:Q2:1016:PHE:HZ	17:Q2:1068:GLU:HG3	1.50	0.73
24:W1:406:ARG:HB2	24:W1:723:PHE:CB	2.17	0.73
26:Y2:1294:LYS:HG3	27:Z2:588:TRP:NE1	2.01	0.73
26:Y2:1365:ILE:CG2	26:Y2:1387:LYS:H	1.99	0.73
27:Z1:46:TYR:CD1	27:Z1:54:TYR:CE1	2.72	0.73
27:Z1:326:LEU:CD2	27:Z1:352:GLU:OE2	2.36	0.73
27:Z1:678:ASN:OD1	27:Z1:678:ASN:C	2.31	0.73
27:Z2:165:VAL:CG1	27:Z2:168:LYS:HE2	2.17	0.73
27:Z2:326:LEU:CD2	27:Z2:352:GLU:OE2	2.36	0.73
27:Z2:331:LEU:HB3	27:Z2:345:ASN:HB3	1.70	0.73
1:A2:1237:LEU:HD21	1:A1:588:SER:HG	0.74	0.73
1:A3:1221:ILE:HG21	1:A4:596:ARG:HG3	1.68	0.73
1:A4:827:ILE:CD1	1:A4:849:SER:HA	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1051:LYS:HB2	14:N1:293:LYS:HB2	1.70	0.73
9:I2:1106:LYS:CD	15:O3:275:LEU:CD1	2.63	0.73
9:I2:1305:LEU:HB2	15:O3:263:GLN:CD	2.12	0.73
17:Q2:491:VAL:O	17:Q2:494:VAL:HG22	1.88	0.73
17:Q2:925:ASN:ND2	19:R2:695:ALA:HB3	2.03	0.73
25:X1:665:TRP:CE3	25:X1:669:LEU:HD11	2.23	0.73
25:X2:644:TRP:CZ3	26:Y2:1225:PHE:CB	2.58	0.73
25:X2:807:LEU:CD2	27:Z2:698:ASN:CA	2.54	0.73
26:Y1:1122:ILE:CD1	29:b1:65:PHE:HE2	2.01	0.73
27:Z1:10:LEU:CD2	27:Z1:431:TRP:CZ2	2.67	0.73
27:Z1:10:LEU:HD21	27:Z1:431:TRP:HH2	1.10	0.73
27:Z1:26:ILE:CG2	27:Z1:440:MET:CG	2.66	0.73
27:Z1:343:VAL:CA	27:Z1:346:ASN:HD21	1.99	0.73
27:Z1:422:ARG:NH2	27:Z1:442:ASN:HD21	1.85	0.73
27:Z2:178:ARG:NH2	27:Z2:280:LYS:HD3	2.01	0.73
27:Z2:343:VAL:CB	27:Z2:346:ASN:HD21	2.01	0.73
27:Z2:598:LEU:HD23	27:Z2:601:ARG:NH2	2.04	0.73
6:F2:140:GLU:OE1	9:I2:1388:GLU:C	2.27	0.73
17:Q1:996:VAL:O	17:Q1:997:VAL:HG22	1.87	0.73
17:Q2:103:LYS:O	17:Q2:123:PRO:HD2	1.87	0.73
17:Q2:728:ALA:O	17:Q2:732:GLU:HG3	1.88	0.73
18:R1:514:VAL:HB	18:R1:549:PHE:CZ	2.22	0.73
20:S1:574:THR:CB	21:T1:88:ARG:HH11	2.01	0.73
25:X2:743:GLN:N	25:X2:744:ALA:H	1.86	0.73
26:Y2:1333:ASP:H	27:Z1:109:PHE:HE1	1.34	0.73
27:Z1:126:SER:H	27:Z1:147:GLU:CD	1.94	0.73
27:Z1:598:LEU:HD23	27:Z1:601:ARG:NH2	2.04	0.73
27:Z2:437:LEU:HB2	27:Z2:448:GLN:HG2	1.69	0.73
29:b1:70:THR:H	29:b2:58:HIS:CE1	2.05	0.73
1:A3:1087:GLY:N	4:D3:1096:TYR:CD1	2.55	0.73
6:F1:982:PRO:HG2	9:I1:1459:ASN:HD21	1.53	0.73
6:F2:995:THR:OG1	6:F2:1018:ARG:NH2	2.22	0.73
7:G1:255:LEU:HB2	15:O2:243:LEU:C	2.13	0.73
9:I1:841:PHE:HE1	15:O1:191:ARG:HH21	0.73	0.73
9:I1:911:PRO:HB2	13:M1:541:LEU:CD2	2.16	0.73
9:I1:914:ASN:ND2	13:M1:537:LEU:C	2.45	0.73
9:I1:1311:LEU:HD22	15:O1:266:GLN:HB2	1.61	0.73
9:I2:806:VAL:CG2	15:O3:247:TRP:CG	2.69	0.73
9:I2:1032:THR:O	16:P3:147:LEU:HD22	1.88	0.73
9:I2:1254:VAL:H	14:N3:410:MET:N	1.85	0.73
17:Q1:72:LEU:HD12	17:Q1:110:ILE:CG2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:103:LYS:O	17:Q1:123:PRO:HD2	1.87	0.73
17:Q1:388:GLU:OE1	17:Q1:559:VAL:HG13	1.88	0.73
17:Q2:89:TYR:CD2	17:Q2:90:ILE:HG22	2.23	0.73
25:X1:679:LEU:HA	26:Y1:1281:MET:HE1	1.70	0.73
25:X1:715:GLU:O	25:X1:719:GLU:HG3	1.87	0.73
25:X1:797:LEU:CD2	27:Z1:687:LEU:HD22	2.15	0.73
25:X2:665:TRP:O	25:X2:669:LEU:HG	1.89	0.73
25:X2:679:LEU:HA	26:Y2:1281:MET:HE1	1.70	0.73
26:Y1:1316:GLU:HG2	27:Z1:609:LEU:CD1	2.17	0.73
26:Y2:1339:PHE:CD2	27:Z2:630:TRP:CD2	2.72	0.73
27:Z1:7:LEU:HD21	27:Z1:431:TRP:NE1	2.02	0.73
27:Z1:252:GLN:CB	27:Z1:335:MET:CE	2.66	0.73
27:Z1:287:ILE:HD11	27:Z1:348:LEU:CD1	2.14	0.73
27:Z1:424:PRO:CG	27:Z1:439:LEU:CD2	2.66	0.73
27:Z1:538:ARG:CZ	27:Z2:543:GLN:O	2.36	0.73
27:Z2:55:HIS:CE1	27:Z2:98:SER:HG	2.07	0.73
29:b2:46:LYS:HE2	29:b2:59:VAL:N	2.01	0.73
7:G1:256:GLN:H	15:O2:245:GLU:CB	2.01	0.73
9:I1:904:GLU:OE2	13:M1:577:LEU:CG	2.36	0.73
9:I1:964:SER:CB	15:O1:182:THR:HG23	1.67	0.73
9:I1:1051:LYS:HB2	14:N1:293:LYS:HD3	1.70	0.73
9:I1:1051:LYS:C	14:N1:293:LYS:NZ	2.46	0.73
17:Q1:279:GLY:C	17:Q1:299:ALA:HA	2.12	0.73
17:Q1:817:THR:O	17:Q1:821:LEU:HD13	1.88	0.73
17:Q2:211:MET:C	17:Q2:212:LEU:HD22	2.13	0.73
17:Q2:571:VAL:HG23	17:Q2:577:TYR:OH	1.87	0.73
17:Q2:817:THR:O	17:Q2:821:LEU:HD13	1.88	0.73
17:Q2:975:PHE:HD1	17:Q2:980:ILE:HD12	1.53	0.73
18:R1:464:THR:O	18:R1:468:LEU:HD13	1.88	0.73
22:U1:296:LEU:CD2	27:Z1:652:GLN:O	2.36	0.73
25:X1:640:LEU:HB3	26:Y1:1218:PHE:HZ	1.51	0.73
25:X1:788:ASP:C	25:X1:788:ASP:OD2	2.31	0.73
25:X1:818:ILE:HD13	26:Y1:1405:GLN:CB	2.18	0.73
25:X2:665:TRP:CE3	25:X2:669:LEU:HD11	2.23	0.73
25:X2:685:MET:N	27:Z2:445:LEU:C	2.46	0.73
25:X2:778:LYS:HG3	25:X2:794:ILE:CG1	2.18	0.73
25:X2:800:HIS:CD2	27:Z2:694:ILE:HD12	2.20	0.73
26:Y2:1294:LYS:HD3	27:Z2:588:TRP:CG	2.23	0.73
26:Y2:1358:HIS:NE2	26:Y2:1362:LEU:CD1	2.25	0.73
26:Y2:1365:ILE:HG21	26:Y2:1386:ALA:C	2.13	0.73
27:Z1:205:ILE:CG2	27:Z1:285:PHE:CD2	2.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:561:THR:O	27:Z2:565:GLN:HG3	1.88	0.73
1:A3:1327:VAL:HB	4:D3:873:GLN:HA	1.71	0.73
17:Q1:268:VAL:HG13	17:Q1:334:TRP:O	1.88	0.73
17:Q2:528:GLU:HA	17:Q2:579:ILE:HG13	1.69	0.73
17:Q2:928:LYS:CE	19:R2:695:ALA:CB	2.62	0.73
22:U1:297:LEU:CA	27:Z1:654:ASP:N	2.51	0.73
25:X1:790:ASN:C	27:Z1:669:THR:C	2.56	0.73
27:Z1:541:LYS:HG2	27:Z2:554:HIS:N	2.03	0.73
27:Z2:16:SER:H	27:Z2:16:SER:C	1.97	0.73
27:Z2:343:VAL:CG1	27:Z2:346:ASN:HD21	2.01	0.73
1:A2:1226:LEU:CD2	1:A1:647:GLU:CG	2.66	0.73
1:A4:1051:THR:OG1	4:D4:1096:TYR:CD2	2.27	0.73
7:G2:254:ASN:HD22	15:O4:256:TYR:CA	2.02	0.73
9:I1:844:LYS:NZ	13:M1:539:ALA:CB	2.49	0.73
9:I1:977:ASN:CG	15:O1:174:LEU:O	2.31	0.73
9:I1:1316:ALA:O	15:O1:269:ILE:CD1	2.32	0.73
9:I2:806:VAL:HG12	15:O3:248:SER:N	1.94	0.73
9:I2:1029:LEU:CD1	13:M3:613:ASP:HB3	2.17	0.73
9:I2:1034:ASP:HA	15:O3:284:LYS:CE	2.14	0.73
9:I2:1095:TYR:CE1	15:O3:268:GLY:CA	2.71	0.73
9:I2:1254:VAL:HA	14:N3:408:MET:CA	2.17	0.73
17:Q1:60:VAL:CG2	17:Q1:63:GLU:HG3	2.17	0.73
17:Q1:426:ILE:HG21	17:Q1:477:PHE:HE2	1.52	0.73
17:Q2:557:LEU:HD11	17:Q2:598:ILE:HG23	1.70	0.73
17:Q2:971:ILE:HD11	17:Q2:984:PHE:CE2	2.23	0.73
24:W1:403:ASP:CA	24:W1:723:PHE:C	2.53	0.73
25:X2:721:LEU:HB3	27:Z2:612:ILE:CD1	2.16	0.73
26:Y1:1294:LYS:CG	27:Z1:588:TRP:HE1	2.00	0.73
26:Y2:1435:LYS:HZ1	27:Z2:225:LEU:CD2	1.89	0.73
27:Z1:381:ILE:HD12	27:Z1:420:ILE:HG21	1.71	0.73
27:Z2:24:ARG:HD3	27:Z2:441:SER:O	1.89	0.73
27:Z2:205:ILE:CG2	27:Z2:285:PHE:CD2	2.67	0.73
27:Z2:381:ILE:HD12	27:Z2:420:ILE:HG21	1.71	0.73
1:A3:871:ASN:CB	4:D1:515:ASN:CB	2.66	0.73
1:A3:873:PRO:CB	4:D1:532:LEU:HD21	2.18	0.73
9:I2:899:LEU:CD2	13:M3:583:ASP:H	1.89	0.73
9:I2:961:ARG:N	16:P3:155:GLU:HB3	2.01	0.73
10:J1:250:THR:OG1	15:O1:277:GLU:CA	2.37	0.73
17:Q1:196:LEU:HB2	17:Q1:242:LEU:HD11	1.71	0.73
17:Q1:566:ASN:O	17:Q1:569:THR:HG22	1.88	0.73
17:Q1:688:THR:O	17:Q1:692:GLU:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:705:LYS:HZ2	17:Q1:710:ILE:HG21	1.51	0.73
17:Q2:196:LEU:HB2	17:Q2:242:LEU:HD11	1.71	0.73
17:Q2:268:VAL:HG13	17:Q2:334:TRP:O	1.88	0.73
17:Q2:332:LYS:HE3	17:Q2:334:TRP:CD2	2.24	0.73
17:Q2:688:THR:O	17:Q2:692:GLU:HB2	1.89	0.73
18:R1:684:ILE:CD1	18:R1:688:LEU:HD21	2.18	0.73
19:R2:664:LEU:HD12	19:R2:705:PHE:CZ	2.23	0.73
20:S2:483:GLU:CD	20:S2:514:ARG:HH22	1.96	0.73
25:X2:717:LYS:NZ	27:Z1:49:LEU:HG	2.03	0.73
25:X2:778:LYS:HG2	25:X2:792:GLN:O	1.87	0.73
25:X2:818:ILE:HD13	26:Y2:1405:GLN:CB	2.18	0.73
26:Y1:1401:LEU:O	26:Y1:1405:GLN:CG	2.36	0.73
26:Y2:1449:ILE:HG22	26:Y2:1453:PHE:HE2	1.45	0.73
27:Z1:41:ASN:ND2	27:Z1:60:SER:H	1.86	0.73
27:Z1:178:ARG:NH2	27:Z1:280:LYS:HD3	2.00	0.73
27:Z1:209:TYR:CD1	27:Z1:335:MET:HB2	2.24	0.73
27:Z1:561:THR:O	27:Z1:565:GLN:HG3	1.88	0.73
27:Z2:359:GLU:HG2	27:Z2:361:LYS:HE3	1.70	0.73
27:Z2:636:ASN:O	27:Z2:640:GLN:HG2	1.89	0.73
29:b1:57:TRP:CZ3	29:b1:90:LYS:HB2	2.23	0.73
6:F1:143:GLY:C	9:I1:1394:ASN:O	2.31	0.73
9:I1:617:ARG:NH1	9:I1:658:ARG:O	2.22	0.73
9:I1:900:ARG:HB3	13:M1:580:LYS:CG	2.19	0.73
9:I2:1175:LYS:CE	15:O3:277:GLU:OE2	2.36	0.73
9:I2:1255:HIS:CE1	14:N3:404:GLU:HA	2.23	0.73
17:Q1:568:LEU:HD21	17:Q1:588:ILE:HD11	1.70	0.73
17:Q2:973:LYS:O	17:Q2:976:LYS:HG2	1.88	0.73
17:Q2:1148:ILE:HD13	17:Q2:1155:VAL:HG12	1.71	0.73
18:R1:409:LYS:HZ2	18:R1:448:ILE:HB	1.54	0.73
19:R2:537:PHE:HB2	19:R2:546:LEU:HD23	1.70	0.73
22:U1:329:ARG:HG2	22:U1:344:VAL:HG22	1.70	0.73
26:Y1:1345:LEU:HD21	26:Y1:1348:LYS:NZ	2.03	0.73
26:Y1:1382:VAL:N	26:Y1:1384:LYS:CG	2.50	0.73
26:Y2:1369:PHE:HE2	26:Y2:1385:LEU:HD11	1.49	0.73
27:Z1:143:VAL:CG2	27:Z1:211:PHE:CZ	2.72	0.73
27:Z1:290:PHE:CD2	27:Z1:291:PRO:O	2.42	0.73
27:Z2:248:ASN:ND2	27:Z2:342:TYR:HE1	1.86	0.73
29:b2:75:HIS:ND1	29:b2:90:LYS:CD	2.52	0.73
1:A2:1332:ARG:HB2	4:D1:902:SER:OG	1.85	0.73
6:F1:166:THR:CB	9:I1:1331:LYS:HZ2	1.98	0.73
6:F1:995:THR:OG1	6:F1:1018:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:140:GLU:HG3	9:I2:1392:VAL:HG23	1.68	0.73
9:I1:912:VAL:HB	13:M1:542:ASP:CG	2.13	0.73
9:I2:902:GLN:C	13:M3:577:LEU:HA	2.14	0.73
9:I2:1051:LYS:CD	14:N3:289:PHE:CD1	2.60	0.73
9:I2:1098:LEU:HB2	15:O3:269:ILE:N	2.04	0.73
9:I2:1102:GLN:CG	15:O3:274:GLY:H	2.02	0.73
9:I2:1305:LEU:C	15:O3:264:ILE:HD11	2.14	0.73
17:Q1:210:LEU:HB3	17:Q1:222:SER:OG	1.88	0.73
17:Q1:463:LYS:HE2	17:Q1:463:LYS:HA	1.69	0.73
17:Q1:688:THR:HG23	17:Q1:692:GLU:CG	2.18	0.73
17:Q2:499:ASP:OD1	17:Q2:534:THR:HG22	1.89	0.73
25:X2:694:ASP:C	27:Z2:431:TRP:C	2.56	0.73
25:X2:707:LEU:HD21	26:Y2:1306:ILE:HG23	1.71	0.73
26:Y2:1443:MET:HE3	27:Z2:332:GLU:CG	2.19	0.73
27:Z1:248:ASN:ND2	27:Z1:342:TYR:HE1	1.86	0.73
27:Z2:46:TYR:CD1	27:Z2:46:TYR:C	2.67	0.73
6:F1:982:PRO:CB	9:I1:1459:ASN:HD21	2.01	0.72
9:I1:918:SER:CB	15:O1:190:ARG:CA	2.67	0.72
9:I1:1048:GLU:HB3	14:N1:293:LYS:HZ2	0.91	0.72
9:I2:841:PHE:O	15:O3:190:ARG:HD2	1.88	0.72
9:I2:921:GLU:OE1	16:P3:157:GLU:CD	2.32	0.72
9:I2:1049:LEU:CA	14:N3:293:LYS:HA	2.15	0.72
9:I2:1304:ASN:ND2	14:N3:414:ALA:HB3	2.04	0.72
17:Q2:69:VAL:HG12	17:Q2:477:PHE:CD1	2.20	0.72
17:Q2:72:LEU:HD12	17:Q2:110:ILE:CG2	2.17	0.72
17:Q2:196:LEU:HB2	17:Q2:242:LEU:CD1	2.19	0.72
17:Q2:865:PRO:O	17:Q2:870:VAL:HG23	1.89	0.72
22:U1:288:LEU:CD2	25:X1:796:ILE:HG13	2.19	0.72
25:X2:665:TRP:CD1	26:Y2:1267:GLU:HB2	2.24	0.72
27:Z1:343:VAL:CB	27:Z1:346:ASN:HD21	2.01	0.72
27:Z1:343:VAL:CG1	27:Z1:346:ASN:HD21	2.01	0.72
27:Z1:537:GLN:C	27:Z2:552:ARG:HG3	1.66	0.72
27:Z1:636:ASN:O	27:Z1:640:GLN:HG2	1.89	0.72
27:Z2:227:LEU:HD23	27:Z2:256:VAL:HG13	1.60	0.72
27:Z2:290:PHE:CD2	27:Z2:291:PRO:O	2.42	0.72
27:Z2:424:PRO:CG	27:Z2:439:LEU:CD2	2.66	0.72
27:Z2:582:GLU:N	27:Z2:582:GLU:CA	2.52	0.72
6:F1:166:THR:HG21	9:I1:1330:PHE:CE1	2.24	0.72
7:G1:251:TYR:HE2	15:O2:244:GLU:HB3	1.54	0.72
9:I1:895:ARG:HH11	15:O1:197:ARG:HB2	1.53	0.72
9:I1:1051:LYS:CD	14:N1:289:PHE:CD2	2.49	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1182:GLN:HG3	10:J1:245:GLU:OE2	1.89	0.72
9:I2:900:ARG:HG3	15:O3:231:ASP:OD1	1.89	0.72
9:I2:917:TYR:HE1	15:O3:186:PHE:O	1.70	0.72
17:Q1:499:ASP:OD1	17:Q1:534:THR:HG22	1.89	0.72
17:Q1:532:LYS:HD3	17:Q1:581:PRO:CG	2.14	0.72
17:Q1:865:PRO:O	17:Q1:870:VAL:HG23	1.89	0.72
17:Q1:922:LEU:HD21	18:R1:688:LEU:CG	2.19	0.72
17:Q2:631:THR:HG23	17:Q2:634:VAL:HG12	1.71	0.72
18:R1:435:PHE:HB3	18:R1:448:ILE:HG12	1.70	0.72
25:X1:676:ILE:CD1	26:Y1:1274:ASN:CG	2.62	0.72
25:X2:715:GLU:O	25:X2:719:GLU:HG3	1.87	0.72
26:Y2:1212:ARG:HE	26:Y2:1213:LEU:HD23	1.48	0.72
26:Y2:1402:LEU:HA	26:Y2:1405:GLN:CG	2.19	0.72
26:Y2:1453:PHE:HD2	27:Z2:328:PHE:CZ	2.07	0.72
27:Z1:45:TRP:CE2	27:Z1:95:TRP:CE3	2.74	0.72
27:Z2:45:TRP:CE2	27:Z2:95:TRP:CE3	2.74	0.72
27:Z2:46:TYR:CD1	27:Z2:54:TYR:CE1	2.72	0.72
1:A2:1332:ARG:HG3	4:D1:905:SER:CB	2.19	0.72
1:A4:127:HIS:N	4:D3:1010:ALA:CB	2.48	0.72
6:F1:982:PRO:CG	9:I1:1459:ASN:HD21	2.02	0.72
6:F2:139:GLN:CD	9:I2:1340:LEU:CD2	2.60	0.72
7:G2:249:ASP:HB2	15:O4:254:ARG:CD	2.18	0.72
9:I1:183:LYS:O	9:I1:188:ARG:NH2	2.22	0.72
9:I2:890:TYR:CD2	13:M3:590:LYS:HD2	2.24	0.72
9:I2:896:PRO:CA	13:M3:584:GLN:CG	2.38	0.72
9:I2:1302:ARG:HD3	15:O3:263:GLN:CG	2.19	0.72
17:Q2:210:LEU:HB3	17:Q2:222:SER:OG	1.88	0.72
17:Q2:811:LEU:HD13	17:Q2:814:LEU:HD21	1.72	0.72
18:R1:436:LEU:O	18:R1:452:LEU:HA	1.90	0.72
18:R1:511:ILE:HG13	18:R1:549:PHE:HD1	1.54	0.72
19:R2:677:LEU:HB3	19:R2:684:ILE:HA	1.71	0.72
25:X2:725:VAL:HG21	27:Z2:612:ILE:CG2	2.19	0.72
26:Y1:1339:PHE:CG	27:Z1:630:TRP:CE3	2.73	0.72
26:Y1:1402:LEU:HA	26:Y1:1405:GLN:CG	2.19	0.72
27:Z1:281:VAL:O	27:Z1:281:VAL:HG23	1.89	0.72
27:Z1:544:THR:CB	27:Z2:555:GLU:HA	2.19	0.72
1:A2:1221:ILE:H	1:A1:596:ARG:CA	2.02	0.72
9:I1:754:ARG:NH2	13:M1:552:TYR:CD2	2.57	0.72
9:I1:908:ARG:C	13:M1:548:LEU:HD21	2.14	0.72
9:I1:1034:ASP:OD2	16:P1:147:LEU:HB3	1.89	0.72
9:I2:963:LEU:CB	16:P3:148:ALA:HA	2.10	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:469:THR:OG1	17:Q1:472:MET:HB2	1.89	0.72
17:Q2:430:ASN:ND2	17:Q2:439:MET:HE3	2.04	0.72
17:Q2:543:GLY:HA3	17:Q2:591:PHE:HZ	1.52	0.72
17:Q2:629:LEU:HD23	17:Q2:632:LYS:N	2.04	0.72
17:Q2:743:LEU:O	17:Q2:743:LEU:HD23	1.89	0.72
17:Q2:963:LYS:HG2	17:Q2:968:GLU:OE1	1.90	0.72
18:R1:547:GLU:O	18:R1:550:MET:HG3	1.89	0.72
18:R1:684:ILE:HD12	18:R1:688:LEU:CD1	2.17	0.72
19:R2:547:GLU:O	19:R2:550:MET:HG3	1.89	0.72
26:Y2:1371:VAL:C	26:Y2:1372:LYS:CA	2.62	0.72
27:Z1:123:PRO:HD3	27:Z1:124:LYS:HG2	1.70	0.72
29:b2:76:PHE:HE2	29:b2:87:LEU:CD1	1.96	0.72
1:A2:873:PRO:HB3	4:D3:535:ALA:HA	1.70	0.72
1:A2:1203:TYR:C	1:A1:599:ARG:NH2	2.47	0.72
9:I1:841:PHE:CD1	15:O1:191:ARG:CZ	2.71	0.72
9:I1:918:SER:HA	15:O1:194:GLU:H	1.53	0.72
9:I2:891:LEU:C	13:M3:591:ASP:N	2.28	0.72
9:I2:965:ALA:CB	15:O3:182:THR:HG23	2.17	0.72
9:I2:1051:LYS:CD	14:N3:289:PHE:HB2	2.19	0.72
17:Q1:228:ILE:HG13	17:Q1:248:LEU:HB2	1.71	0.72
17:Q1:331:LEU:CD1	17:Q1:351:ILE:HG21	2.19	0.72
17:Q1:414:THR:HG22	17:Q1:429:VAL:O	1.90	0.72
17:Q1:611:ASN:HA	17:Q1:614:TRP:HE3	1.52	0.72
17:Q1:824:ASN:HA	17:Q1:827:THR:CB	2.17	0.72
17:Q1:888:ILE:O	17:Q1:888:ILE:HD13	1.88	0.72
17:Q1:929:LEU:CD2	18:R1:691:THR:HB	2.16	0.72
17:Q2:888:ILE:O	17:Q2:888:ILE:HD13	1.88	0.72
18:R1:473:SER:HB2	18:R1:475:ILE:HG12	1.71	0.72
18:R1:510:LEU:CB	18:R1:533:LEU:HD13	2.18	0.72
18:R1:537:PHE:HB2	18:R1:546:LEU:HD23	1.70	0.72
24:W1:527:SER:N	24:W1:740:PHE:HA	2.05	0.72
26:Y1:1410:GLN:HB3	27:Z1:711:LYS:CE	2.12	0.72
27:Z2:679:GLU:N	27:Z2:680:TRP:N	2.36	0.72
1:A2:1225:PRO:HB3	1:A1:640:LEU:CD2	1.88	0.72
6:F1:154:SER:CB	9:I1:1344:GLN:HG3	2.18	0.72
6:F2:1267:ARG:HH11	15:O4:262:ASP:CB	1.66	0.72
9:I1:925:LEU:HD13	15:O1:184:ARG:HB3	0.77	0.72
9:I1:961:ARG:HH12	15:O1:190:ARG:N	1.72	0.72
9:I1:976:ARG:CZ	15:O1:173:ILE:N	2.52	0.72
9:I2:503:ARG:NH2	9:I2:504:ALA:O	2.22	0.72
9:I2:617:ARG:NH1	9:I2:658:ARG:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:916:ALA:HB2	15:O3:192:HIS:HB3	1.71	0.72
9:I2:1051:LYS:CD	14:N3:289:PHE:CB	2.67	0.72
17:Q1:196:LEU:HB2	17:Q1:242:LEU:CD1	2.19	0.72
17:Q1:430:ASN:ND2	17:Q1:439:MET:HE3	2.04	0.72
17:Q1:963:LYS:HG2	17:Q1:968:GLU:OE1	1.90	0.72
17:Q2:616:LYS:CG	17:Q2:630:THR:HG21	2.17	0.72
26:Y1:1118:ALA:CB	29:b1:71:HIS:CE1	2.72	0.72
26:Y1:1453:PHE:HD2	27:Z1:328:PHE:CZ	2.06	0.72
26:Y2:1294:LYS:HE3	27:Z2:588:TRP:HD1	1.08	0.72
26:Y2:1337:HIS:NE2	27:Z1:111:ILE:CA	2.17	0.72
29:b1:16:ILE:CG2	29:b1:74:GLY:O	2.34	0.72
1:A3:1087:GLY:HA3	4:D3:1095:ARG:CG	2.19	0.72
7:G1:255:LEU:CD2	15:O2:244:GLU:HB2	2.19	0.72
9:I1:917:TYR:HE1	13:M1:534:GLN:OE1	1.65	0.72
9:I1:960:SER:O	15:O1:182:THR:CG2	2.37	0.72
9:I1:1246:ILE:HG13	15:O1:255:GLY:CA	2.10	0.72
9:I2:1026:TYR:OH	13:M3:608:LYS:CA	2.38	0.72
9:I2:1049:LEU:HG	14:N3:292:ARG:O	1.88	0.72
17:Q2:455:ILE:HD13	17:Q2:469:THR:HG22	1.71	0.72
17:Q2:906:ILE:HA	17:Q2:909:ASP:OD2	1.90	0.72
17:Q2:943:THR:O	17:Q2:947:ILE:HG22	1.89	0.72
18:R1:250:LEU:HD13	20:S1:317:GLY:HA3	1.70	0.72
19:R2:586:GLN:NE2	19:R2:630:LEU:HD13	2.04	0.72
25:X1:707:LEU:HD21	26:Y1:1306:ILE:HG23	1.72	0.72
25:X2:692:LYS:HG3	27:Z2:431:TRP:CZ2	2.17	0.72
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:HB2	1.62	0.72
26:Y1:1430:ASP:O	26:Y1:1434:PHE:CD2	2.16	0.72
27:Z1:642:ASN:C	27:Z1:644:PHE:N	2.47	0.72
27:Z2:41:ASN:HD21	27:Z2:60:SER:CA	1.77	0.72
27:Z2:281:VAL:HG23	27:Z2:281:VAL:O	1.89	0.72
27:Z2:290:PHE:CE2	27:Z2:291:PRO:O	2.42	0.72
1:A2:1226:LEU:CD1	1:A1:646:ILE:HB	2.20	0.72
1:A2:1277:TRP:HB3	1:A1:642:ARG:NH1	2.05	0.72
7:G1:247:ASP:N	13:M2:594:LYS:CG	2.53	0.72
9:I2:977:ASN:CA	15:O3:174:LEU:HD22	2.18	0.72
10:J1:249:ASP:OD2	15:O1:275:LEU:HG	1.89	0.72
17:Q2:803:GLN:HB3	17:Q2:807:PHE:CE2	2.25	0.72
17:Q2:936:LYS:HD3	17:Q2:940:ASP:HB2	1.71	0.72
17:Q2:946:LYS:HD2	17:Q2:947:ILE:H	1.55	0.72
18:R1:677:LEU:HB3	18:R1:684:ILE:HA	1.71	0.72
19:R2:715:LEU:O	19:R2:715:LEU:HD23	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:241:GLU:HG2	23:V1:328:LEU:HD13	1.71	0.72
24:W1:523:ASP:CB	24:W1:738:ARG:N	2.50	0.72
25:X1:778:LYS:O	25:X1:778:LYS:HE3	1.90	0.72
25:X2:662:ILE:HD13	27:Z2:549:ILE:HG23	1.68	0.72
25:X2:688:HIS:ND1	27:Z2:447:PHE:CE2	2.50	0.72
25:X2:815:GLU:HG2	26:Y2:1402:LEU:HG	1.63	0.72
26:Y1:1345:LEU:O	26:Y1:1348:LYS:HG2	1.90	0.72
26:Y1:1430:ASP:CB	26:Y1:1434:PHE:CE2	2.67	0.72
27:Z2:227:LEU:CD2	27:Z2:256:VAL:HG13	2.12	0.72
27:Z2:397:ILE:HG22	27:Z2:397:ILE:O	1.89	0.72
1:A2:873:PRO:HB3	4:D3:535:ALA:CA	2.20	0.72
1:A3:1091:VAL:N	4:D3:1100:PRO:CB	2.27	0.72
9:I1:963:LEU:HD12	15:O1:182:THR:CG2	2.12	0.72
9:I2:1048:GLU:OE1	14:N3:293:LYS:CD	2.37	0.72
17:Q1:455:ILE:HD13	17:Q1:469:THR:HG22	1.71	0.72
17:Q2:566:ASN:O	17:Q2:569:THR:HG22	1.89	0.72
22:U1:296:LEU:CG	27:Z1:657:TYR:H	2.02	0.72
23:V1:152:LEU:HD21	23:V1:182:LEU:HB3	1.70	0.72
25:X2:685:MET:HE3	27:Z2:13:PHE:HZ	1.51	0.72
26:Y2:1401:LEU:O	26:Y2:1405:GLN:CG	2.36	0.72
27:Z2:289:PRO:HD3	27:Z2:350:LEU:HB3	1.71	0.72
29:b1:9:PRO:HD3	29:b1:29:LYS:NZ	2.05	0.72
29:b2:42:ALA:O	29:b2:59:VAL:CG2	2.30	0.72
1:A2:1220:PRO:HA	1:A1:596:ARG:CA	2.18	0.72
4:D1:1003:GLU:HG3	1:A1:173:ASN:N	2.05	0.72
9:I1:503:ARG:NH2	9:I1:504:ALA:O	2.22	0.72
9:I2:921:GLU:CD	16:P3:157:GLU:OE2	2.32	0.72
9:I2:1050:SER:OG	14:N3:292:ARG:CD	2.36	0.72
17:Q1:799:GLU:O	17:Q1:802:ILE:HG22	1.90	0.72
17:Q2:631:THR:O	17:Q2:635:VAL:HG23	1.89	0.72
17:Q2:799:GLU:O	17:Q2:802:ILE:HG22	1.90	0.72
18:R1:621:GLN:HB3	18:R1:670:LYS:HZ1	1.52	0.72
19:R2:538:LEU:CB	19:R2:546:LEU:HD11	2.19	0.72
20:S1:483:GLU:CD	20:S1:514:ARG:HH22	1.96	0.72
22:U2:329:ARG:HG2	22:U2:344:VAL:HG22	1.70	0.72
25:X1:742:GLN:HG3	25:X1:743:GLN:CB	2.06	0.72
25:X1:795:LYS:NZ	27:Z1:666:GLU:CB	2.52	0.72
25:X2:690:GLN:CB	27:Z2:7:LEU:HD22	2.18	0.72
26:Y2:1126:LEU:HD23	29:b2:63:LYS:CD	2.20	0.72
26:Y2:1235:MET:C	26:Y2:1239:PHE:CD2	2.65	0.72
27:Z1:35:ILE:HD12	27:Z1:429:ILE:CD1	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:143:VAL:CG2	27:Z2:211:PHE:CZ	2.72	0.72
27:Z2:393:LEU:HD21	27:Z2:405:LEU:CD2	1.93	0.72
27:Z2:417:ILE:CG2	27:Z2:448:GLN:OE1	2.37	0.72
29:b1:38:GLU:OE1	29:b1:61:VAL:C	2.32	0.72
29:b2:71:HIS:HB3	29:b2:76:PHE:HD1	1.55	0.72
1:A1:827:ILE:CD1	1:A1:849:SER:HA	2.19	0.72
1:A3:1269:ALA:O	1:A4:730:THR:N	2.22	0.71
4:D1:969:HIS:CG	1:A1:711:VAL:CG2	2.73	0.71
6:F1:272:GLU:CA	9:I1:1209:THR:H	2.04	0.71
9:I1:967:SER:HB3	15:O1:178:ASP:CB	2.20	0.71
9:I2:892:HIS:CA	13:M3:588:MET:HA	2.18	0.71
9:I2:961:ARG:CD	16:P3:155:GLU:C	2.63	0.71
9:I2:982:GLN:CD	15:O3:179:LEU:CD1	2.62	0.71
9:I2:1026:TYR:HA	13:M3:611:LYS:CA	2.03	0.71
17:Q1:105:VAL:HB	17:Q1:121:THR:OG1	1.90	0.71
17:Q1:332:LYS:HE3	17:Q1:334:TRP:CD2	2.24	0.71
17:Q1:549:MET:CG	17:Q1:549:MET:CE	2.68	0.71
17:Q2:922:LEU:CD2	19:R2:688:LEU:CD2	2.68	0.71
18:R1:586:GLN:HE21	18:R1:630:LEU:CD1	2.03	0.71
19:R2:511:ILE:HG13	19:R2:549:PHE:HD1	1.54	0.71
19:R2:581:LEU:HA	19:R2:584:ILE:CD1	2.20	0.71
19:R2:684:ILE:HD11	19:R2:688:LEU:HD21	1.71	0.71
22:U1:248:LYS:HG2	25:X1:805:ARG:HB3	1.71	0.71
25:X2:676:ILE:CD1	26:Y2:1274:ASN:CG	2.61	0.71
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:CE	2.61	0.71
26:Y2:1365:ILE:HB	26:Y2:1387:LYS:HB2	1.71	0.71
27:Z1:116:ILE:CD1	27:Z1:124:LYS:HB2	2.20	0.71
27:Z1:582:GLU:N	27:Z1:582:GLU:CA	2.52	0.71
27:Z2:679:GLU:N	27:Z2:679:GLU:CB	2.53	0.71
9:I1:903:GLY:HA2	13:M1:575:TYR:CB	2.20	0.71
9:I2:183:LYS:O	9:I2:188:ARG:NH2	2.22	0.71
9:I2:1049:LEU:CD2	14:N3:295:GLU:N	2.49	0.71
9:I2:1099:ARG:CZ	13:M3:610:SER:N	1.87	0.71
17:Q1:743:LEU:O	17:Q1:743:LEU:HD23	1.89	0.71
17:Q1:946:LYS:HD2	17:Q1:947:ILE:H	1.54	0.71
17:Q2:166:ILE:HB	17:Q2:173:ILE:HG22	1.70	0.71
17:Q2:331:LEU:CD1	17:Q2:351:ILE:HG21	2.19	0.71
17:Q2:469:THR:OG1	17:Q2:472:MET:HB2	1.89	0.71
17:Q2:681:ILE:HD13	17:Q2:681:ILE:O	1.90	0.71
17:Q2:700:GLU:HB3	17:Q2:758:ILE:CG1	2.17	0.71
18:R1:684:ILE:HD11	18:R1:688:LEU:HD21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:701:ILE:HG22	19:R2:705:PHE:HE1	1.55	0.71
22:U1:295:GLU:CB	27:Z1:657:TYR:HD2	1.65	0.71
24:W1:527:SER:O	24:W1:742:GLU:O	2.01	0.71
25:X1:665:TRP:NE1	26:Y1:1267:GLU:HB3	1.79	0.71
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:HZ3	0.91	0.71
26:Y2:1334:LEU:CB	27:Z1:108:ALA:H	1.92	0.71
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CB	2.36	0.71
27:Z1:397:ILE:HG22	27:Z1:397:ILE:O	1.89	0.71
27:Z2:93:VAL:C	27:Z2:94:PRO:HD2	1.78	0.71
27:Z2:209:TYR:CD1	27:Z2:335:MET:HB2	2.24	0.71
27:Z2:216:LEU:HG	27:Z2:272:ILE:CG1	2.19	0.71
27:Z2:307:ILE:O	27:Z2:307:ILE:CG2	2.36	0.71
29:b2:36:GLN:O	29:b2:36:GLN:HG3	1.89	0.71
6:F1:133:GLN:O	9:I1:1389:GLN:CG	2.34	0.71
9:I1:911:PRO:CG	15:O1:202:LEU:HB2	2.12	0.71
9:I1:918:SER:CA	15:O1:193:ALA:CB	2.68	0.71
9:I1:977:ASN:ND2	15:O1:174:LEU:C	2.47	0.71
9:I1:1429:TYR:OH	10:J1:267:GLY:HA2	1.90	0.71
17:Q1:214:CYS:HB3	17:Q1:281:ARG:CD	2.18	0.71
17:Q1:631:THR:O	17:Q1:635:VAL:HG23	1.89	0.71
17:Q1:906:ILE:HA	17:Q1:909:ASP:OD2	1.90	0.71
17:Q1:972:CYS:HB3	17:Q1:975:PHE:CD2	2.25	0.71
17:Q2:684:GLU:HA	17:Q2:688:THR:OG1	1.90	0.71
18:R1:531:ILE:HG23	18:R1:580:PHE:CE1	2.26	0.71
25:X1:797:LEU:HD21	27:Z1:687:LEU:HD21	0.77	0.71
25:X2:777:ASN:HA	25:X2:793:LEU:HB3	1.72	0.71
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:N	2.55	0.71
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:HD22	2.25	0.71
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:HD12	1.72	0.71
27:Z1:26:ILE:HG22	27:Z1:440:MET:SD	2.04	0.71
27:Z1:230:SER:CB	27:Z1:253:LEU:CD2	2.65	0.71
27:Z1:290:PHE:CE2	27:Z1:291:PRO:O	2.42	0.71
27:Z1:541:LYS:NZ	27:Z2:553:ILE:CG1	2.52	0.71
9:I2:807:LEU:HD11	15:O3:248:SER:HB2	1.71	0.71
9:I2:1048:GLU:CD	14:N3:293:LYS:CD	2.63	0.71
9:I2:1048:GLU:OE1	14:N3:293:LYS:HE2	1.88	0.71
9:I2:1103:LEU:HB2	13:M3:611:LYS:CG	2.19	0.71
10:J1:248:VAL:HG13	15:O1:273:ASP:N	2.04	0.71
17:Q2:276:LEU:HD13	17:Q2:296:GLN:HE21	1.55	0.71
17:Q2:611:ASN:HA	17:Q2:614:TRP:HE3	1.52	0.71
17:Q2:688:THR:HA	17:Q2:692:GLU:OE1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:827:THR:HA	17:Q2:830:SER:CB	2.18	0.71
18:R1:514:VAL:HB	18:R1:549:PHE:CE1	2.25	0.71
24:W1:403:ASP:HA	24:W1:723:PHE:O	1.88	0.71
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:HD21	1.72	0.71
26:Y2:1345:LEU:O	26:Y2:1348:LYS:HG2	1.90	0.71
27:Z1:46:TYR:CD1	27:Z1:46:TYR:C	2.67	0.71
27:Z2:34:ARG:HD2	27:Z2:95:TRP:CH2	2.26	0.71
27:Z2:252:GLN:CB	27:Z2:335:MET:SD	2.78	0.71
27:Z2:389:TRP:HZ3	27:Z2:393:LEU:HD12	1.50	0.71
27:Z2:642:ASN:C	27:Z2:644:PHE:N	2.47	0.71
29:b2:29:LYS:CE	29:b2:81:ILE:HG12	2.19	0.71
1:A1:827:ILE:HG23	1:A1:850:PRO:HD3	1.73	0.71
1:A2:1273:ALA:N	1:A1:646:ILE:HD11	2.05	0.71
1:A2:1277:TRP:CD1	1:A1:642:ARG:NH2	2.58	0.71
1:A3:1200:ARG:CB	1:A4:591:ASP:HB3	2.20	0.71
1:A3:1272:GLY:HA2	1:A4:727:ASN:CA	2.19	0.71
9:I1:908:ARG:CD	15:O1:209:LEU:CD1	2.68	0.71
9:I1:1051:LYS:HZ3	14:N1:290:VAL:N	1.87	0.71
9:I2:980:ILE:HD11	15:O3:174:LEU:HD13	1.71	0.71
17:Q1:827:THR:HG23	17:Q1:830:SER:HB2	1.72	0.71
17:Q1:946:LYS:HD2	17:Q1:947:ILE:N	2.05	0.71
17:Q2:549:MET:CG	17:Q2:549:MET:CE	2.68	0.71
17:Q2:564:PHE:CE2	17:Q2:568:LEU:HD11	2.26	0.71
17:Q2:647:LYS:HA	17:Q2:647:LYS:CE	2.20	0.71
18:R1:581:LEU:HA	18:R1:584:ILE:CD1	2.20	0.71
25:X2:688:HIS:N	27:Z2:8:SER:OG	2.24	0.71
25:X2:778:LYS:O	27:Z2:680:TRP:CZ3	2.44	0.71
27:Z1:627:GLU:O	27:Z1:631:PHE:CD2	2.43	0.71
1:A2:1201:ARG:HA	1:A1:648:TYR:CZ	2.12	0.71
1:A2:1229:VAL:HG23	1:A1:643:ALA:CB	2.19	0.71
1:A2:1277:TRP:HB2	1:A1:642:ARG:HH22	1.52	0.71
1:A2:1328:ARG:NH2	4:D1:898:ASP:OD2	2.21	0.71
6:F1:139:GLN:HB3	9:I1:1396:ILE:CG1	2.21	0.71
6:F1:1265:GLN:OE1	15:O2:248:SER:CB	2.36	0.71
9:I2:1103:LEU:N	15:O3:272:SER:HA	2.05	0.71
9:I2:1109:LEU:CB	15:O3:284:LYS:HZ2	1.89	0.71
17:Q1:310:VAL:HG21	17:Q1:368:PHE:CE2	2.26	0.71
17:Q1:564:PHE:CE2	17:Q1:568:LEU:HD11	2.26	0.71
17:Q1:629:LEU:HD23	17:Q1:632:LYS:N	2.04	0.71
17:Q1:688:THR:HG22	17:Q1:692:GLU:HB2	1.72	0.71
17:Q2:73:GLN:CG	17:Q2:113:THR:HA	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:105:VAL:HB	17:Q2:121:THR:OG1	1.90	0.71
17:Q2:171:LYS:HZ1	17:Q2:173:ILE:HB	1.56	0.71
17:Q2:568:LEU:HD21	17:Q2:588:ILE:HD11	1.70	0.71
17:Q2:812:SER:O	17:Q2:815:VAL:HG22	1.91	0.71
17:Q2:827:THR:HG23	17:Q2:830:SER:HB2	1.72	0.71
25:X2:644:TRP:CZ3	26:Y2:1225:PHE:HB2	2.25	0.71
25:X2:689:SER:H	27:Z2:8:SER:HG	1.37	0.71
26:Y1:1454:LYS:NZ	27:Z1:288:ASN:HB2	2.05	0.71
27:Z1:34:ARG:HD2	27:Z1:95:TRP:HH2	1.55	0.71
27:Z1:125:SER:HB2	27:Z1:147:GLU:OE1	1.91	0.71
27:Z1:227:LEU:CD2	27:Z1:256:VAL:HG13	2.12	0.71
27:Z1:252:GLN:NE2	27:Z1:335:MET:CA	2.53	0.71
27:Z1:326:LEU:CD2	27:Z1:389:TRP:HZ2	2.03	0.71
27:Z2:35:ILE:CB	27:Z2:46:TYR:CZ	2.62	0.71
27:Z2:119:GLU:C	27:Z2:119:GLU:CB	2.64	0.71
27:Z2:135:LYS:HE2	27:Z2:218:LEU:HD21	1.73	0.71
27:Z2:417:ILE:HG21	27:Z2:448:GLN:NE2	2.05	0.71
1:A2:1221:ILE:N	1:A1:596:ARG:O	2.23	0.71
1:A3:1099:GLN:HE22	9:I2:1416:GLY:C	1.97	0.71
6:F2:143:GLY:HA2	9:I2:1394:ASN:CG	2.15	0.71
9:I1:918:SER:CB	15:O1:190:ARG:HA	2.21	0.71
9:I2:887:GLN:O	13:M3:590:LYS:HG2	1.91	0.71
9:I2:961:ARG:CG	16:P3:155:GLU:O	2.38	0.71
9:I2:1048:GLU:OE2	14:N3:293:LYS:CE	2.37	0.71
9:I2:1099:ARG:N	15:O3:268:GLY:O	2.23	0.71
9:I2:1108:PRO:HB2	15:O3:281:ALA:CB	1.77	0.71
17:Q1:288:ASN:O	17:Q1:333:ILE:HG22	1.91	0.71
17:Q2:228:ILE:HG13	17:Q2:248:LEU:HB2	1.71	0.71
18:R1:459:LYS:O	18:R1:462:ILE:HG22	1.90	0.71
19:R2:514:VAL:HB	19:R2:549:PHE:CE1	2.25	0.71
19:R2:684:ILE:HD12	19:R2:688:LEU:CD1	2.17	0.71
22:U1:241:ARG:CB	27:Z1:656:SER:CB	2.62	0.71
22:U1:248:LYS:CG	25:X1:805:ARG:C	2.63	0.71
22:U1:289:GLN:CD	25:X1:794:ILE:CA	2.43	0.71
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:HD21	1.73	0.71
27:Z1:94:PRO:CB	27:Z1:109:PHE:CZ	2.69	0.71
27:Z1:216:LEU:HG	27:Z1:272:ILE:CG1	2.19	0.71
27:Z1:280:LYS:HG3	27:Z1:337:TRP:O	1.91	0.71
27:Z1:709:THR:O	27:Z1:712:THR:OG1	2.09	0.71
27:Z2:46:TYR:CE1	27:Z2:48:VAL:HG23	2.25	0.71
6:F2:140:GLU:CG	9:I2:1393:GLY:H	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:911:PRO:HG3	15:O3:197:ARG:HG2	1.73	0.71
9:I2:1102:GLN:CB	15:O3:271:GLU:O	2.13	0.71
9:I2:1160:ILE:CD1	15:O3:263:GLN:C	2.64	0.71
17:Q1:647:LYS:HA	17:Q1:647:LYS:CE	2.20	0.71
17:Q1:703:THR:HA	17:Q1:707:PRO:HG2	1.72	0.71
17:Q1:943:THR:O	17:Q1:947:ILE:HG22	1.89	0.71
17:Q2:414:THR:HG22	17:Q2:429:VAL:O	1.89	0.71
17:Q2:1008:MET:CE	17:Q2:1008:MET:CG	2.69	0.71
18:R1:465:ILE:HG13	18:R1:470:LEU:HB2	1.73	0.71
18:R1:467:PHE:HD2	18:R1:468:LEU:HD12	1.56	0.71
18:R1:538:LEU:CB	18:R1:546:LEU:HD11	2.20	0.71
19:R2:532:ALA:HA	19:R2:535:ARG:HE	1.56	0.71
19:R2:621:GLN:CA	19:R2:670:LYS:HE2	2.21	0.71
20:S1:170:GLY:HA3	21:T1:12:ILE:HD12	1.73	0.71
20:S1:550:GLY:O	20:S1:560:LEU:C	2.33	0.71
23:V2:241:GLU:HG2	23:V2:328:LEU:HD13	1.71	0.71
25:X1:665:TRP:O	25:X1:669:LEU:HG	1.89	0.71
25:X1:717:LYS:HE3	26:Y1:1320:LEU:CD1	2.13	0.71
25:X1:721:LEU:HD21	26:Y1:1319:PHE:HD2	1.55	0.71
26:Y1:1370:THR:HG22	27:Z1:662:LEU:CD2	2.14	0.71
26:Y2:1118:ALA:O	29:b2:71:HIS:CD2	2.43	0.71
27:Z1:531:ILE:CD1	27:Z2:541:LYS:CD	2.59	0.71
27:Z2:34:ARG:HD2	27:Z2:95:TRP:HH2	1.55	0.71
1:A2:1091:VAL:CB	4:D1:1104:GLU:HG2	2.20	0.71
1:A2:1272:GLY:O	1:A1:642:ARG:HG3	1.91	0.71
9:I1:1051:LYS:H	14:N1:293:LYS:HD2	1.49	0.71
9:I1:1606:GLU:OE2	9:I2:1669:ARG:CZ	2.37	0.71
9:I2:1031:ALA:HB2	13:M3:621:ARG:NH2	2.05	0.71
9:I2:1254:VAL:CA	14:N3:411:GLN:H	2.03	0.71
17:Q1:385:THR:N	17:Q1:507:ILE:HA	2.05	0.71
18:R1:435:PHE:CB	18:R1:448:ILE:CG1	2.67	0.71
18:R1:715:LEU:O	18:R1:715:LEU:HD23	1.90	0.71
19:R2:8:GLN:C	19:R2:10:GLU:H	1.99	0.71
26:Y1:1429:LYS:HD3	26:Y1:1434:PHE:CZ	2.23	0.71
27:Z1:294:LEU:HD12	27:Z1:325:ILE:HD11	1.73	0.71
27:Z1:630:TRP:CE2	27:Z1:634:ILE:HD11	2.25	0.71
27:Z2:94:PRO:CB	27:Z2:109:PHE:CZ	2.69	0.71
27:Z2:383:GLN:CG	27:Z2:417:ILE:HG13	2.20	0.71
9:I1:924:ILE:CG1	15:O1:187:ASN:ND2	2.54	0.71
9:I2:1026:TYR:CA	13:M3:611:LYS:HA	2.15	0.71
9:I2:1168:ALA:HB3	15:O3:269:ILE:CB	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1182:GLN:HG3	10:J2:245:GLU:OE2	1.89	0.71
9:I2:1308:THR:HB	14:N3:413:VAL:CG1	2.16	0.71
17:Q1:631:THR:HG23	17:Q1:634:VAL:HG12	1.71	0.71
17:Q1:681:ILE:HD13	17:Q1:681:ILE:O	1.90	0.71
17:Q1:727:PHE:O	17:Q1:730:GLU:HG2	1.91	0.71
17:Q1:803:GLN:HB3	17:Q1:807:PHE:CE2	2.25	0.71
17:Q1:847:LEU:HD13	17:Q1:879:ALA:HB1	1.72	0.71
17:Q1:975:PHE:HD1	17:Q1:980:ILE:HD12	1.54	0.71
17:Q2:139:ILE:CB	17:Q2:211:MET:HE1	2.21	0.71
17:Q2:310:VAL:HG21	17:Q2:368:PHE:CE2	2.26	0.71
17:Q2:824:ASN:HA	17:Q2:827:THR:CB	2.17	0.71
18:R1:621:GLN:CA	18:R1:670:LYS:HE2	2.21	0.71
26:Y2:1221:VAL:HG22	27:Z2:536:LEU:HD21	1.72	0.71
27:Z1:34:ARG:HD2	27:Z1:95:TRP:CH2	2.26	0.71
27:Z1:611:GLN:C	27:Z1:611:GLN:CA	2.64	0.71
27:Z2:280:LYS:HG3	27:Z2:337:TRP:O	1.91	0.71
27:Z2:630:TRP:CE2	27:Z2:634:ILE:HD11	2.25	0.71
27:Z2:709:THR:O	27:Z2:712:THR:OG1	2.09	0.71
1:A2:1277:TRP:HB3	1:A1:642:ARG:CZ	2.21	0.70
6:F1:159:ALA:O	9:I1:1335:LYS:HE3	1.90	0.70
9:I1:921:GLU:HB2	15:O1:187:ASN:CA	2.16	0.70
9:I1:1049:LEU:H	15:O1:170:LEU:C	1.99	0.70
9:I1:1304:ASN:OD1	15:O1:262:ASP:OD1	2.09	0.70
9:I2:1030:ARG:CG	13:M3:617:THR:HB	2.20	0.70
9:I2:1050:SER:CB	15:O3:288:GLU:OE2	2.38	0.70
9:I2:1429:TYR:OH	10:J2:267:GLY:HA2	1.90	0.70
17:Q1:73:GLN:CG	17:Q1:113:THR:HA	2.21	0.70
17:Q1:444:GLU:HB3	17:Q1:504:PHE:O	1.91	0.70
17:Q1:684:GLU:HA	17:Q1:688:THR:OG1	1.90	0.70
17:Q1:704:SER:H	17:Q1:707:PRO:HG2	1.56	0.70
17:Q1:811:LEU:HD13	17:Q1:814:LEU:HD21	1.72	0.70
17:Q1:1148:ILE:HD13	17:Q1:1155:VAL:HG12	1.71	0.70
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:HB2	1.56	0.70
17:Q2:703:THR:HA	17:Q2:707:PRO:HG2	1.72	0.70
17:Q2:786:LEU:HB3	17:Q2:811:LEU:HG	1.73	0.70
17:Q2:852:ILE:HD11	17:Q2:913:LYS:HZ3	0.89	0.70
18:R1:506:ILE:HG13	18:R1:507:ASP:N	2.05	0.70
25:X1:804:LEU:HD21	27:Z1:694:ILE:HG12	1.73	0.70
25:X2:702:ARG:CD	27:Z2:49:LEU:HD21	2.21	0.70
25:X2:774:ASN:HD21	25:X2:798:ASN:CG	1.86	0.70
26:Y1:1221:VAL:HG22	27:Z1:536:LEU:HD21	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1454:LYS:HE3	27:Z1:349:VAL:CG2	2.15	0.70
26:Y2:1333:ASP:HA	27:Z1:92:GLU:C	2.16	0.70
26:Y2:1412:GLU:OE2	27:Z1:258:LYS:CD	2.38	0.70
27:Z1:679:GLU:OE2	27:Z2:654:ASP:OD2	1.92	0.70
27:Z2:230:SER:CB	27:Z2:253:LEU:CD2	2.65	0.70
27:Z2:326:LEU:CD2	27:Z2:389:TRP:HZ2	2.03	0.70
1:A4:625:LEU:O	4:D3:981:VAL:HG21	1.87	0.70
1:A4:715:GLU:HB2	4:D3:973:GLN:NE2	1.93	0.70
9:I1:908:ARG:NH2	13:M1:555:GLN:HB3	2.05	0.70
9:I2:963:LEU:HD12	16:P3:148:ALA:C	2.17	0.70
9:I2:963:LEU:O	16:P3:152:LYS:HE2	1.92	0.70
9:I2:968:PRO:HB2	14:N3:303:SER:HB3	0.72	0.70
17:Q1:699:MET:CG	17:Q1:699:MET:CE	2.69	0.70
17:Q1:936:LYS:HD3	17:Q1:940:ASP:HB2	1.71	0.70
17:Q2:63:GLU:HG2	17:Q2:68:ILE:HG13	1.73	0.70
17:Q2:703:THR:HB	17:Q2:707:PRO:HB2	1.73	0.70
17:Q2:946:LYS:HD2	17:Q2:947:ILE:N	2.05	0.70
18:R1:532:ALA:HA	18:R1:535:ARG:HE	1.56	0.70
24:W1:404:VAL:HG11	24:W1:438:GLU:HA	1.73	0.70
25:X2:686:ALA:CA	27:Z2:8:SER:HB2	2.19	0.70
25:X2:789:GLU:HB2	27:Z2:680:TRP:HE3	1.56	0.70
25:X2:794:ILE:O	25:X2:797:LEU:HD12	1.91	0.70
26:Y2:1236:ASP:N	26:Y2:1239:PHE:CE2	2.56	0.70
27:Z1:145:LEU:HD21	27:Z1:182:ILE:HG23	1.72	0.70
27:Z1:178:ARG:NH2	27:Z1:340:ASP:OD1	2.23	0.70
27:Z1:252:GLN:CB	27:Z1:335:MET:SD	2.78	0.70
27:Z1:541:LYS:HZ2	27:Z2:549:ILE:C	1.96	0.70
1:A3:1091:VAL:HG13	4:D3:1100:PRO:CB	2.21	0.70
9:I1:899:LEU:C	13:M1:580:LYS:HD3	2.12	0.70
9:I1:978:LYS:NZ	15:O1:184:ARG:NH2	2.37	0.70
9:I2:925:LEU:HD11	15:O3:186:PHE:H	1.55	0.70
9:I2:1107:SER:HB3	13:M3:615:PRO:HB3	1.63	0.70
9:I2:1259:ARG:NH2	9:I2:1262:GLN:OE1	2.25	0.70
9:I2:1304:ASN:OD1	14:N3:412:ASN:O	2.08	0.70
17:Q1:600:PHE:HZ	17:Q1:675:LEU:HD13	1.56	0.70
17:Q1:824:ASN:HD21	17:Q1:833:GLU:CB	2.04	0.70
18:R1:62:VAL:HG12	18:R1:66:LYS:HE3	1.73	0.70
27:Z1:46:TYR:CE1	27:Z1:48:VAL:HG23	2.25	0.70
27:Z2:7:LEU:HD21	27:Z2:584:GLN:HE22	1.57	0.70
27:Z2:145:LEU:HD21	27:Z2:182:ILE:HG23	1.72	0.70
6:F1:273:ALA:CA	9:I1:1209:THR:OG1	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:273:ALA:HA	9:I1:1209:THR:OG1	1.91	0.70
9:I1:1259:ARG:NH2	9:I1:1262:GLN:OE1	2.25	0.70
9:I2:888:GLU:CD	13:M3:597:LYS:HB2	2.10	0.70
9:I2:902:GLN:HB3	13:M3:580:LYS:HB2	1.32	0.70
9:I2:1029:LEU:CD2	13:M3:613:ASP:CG	2.64	0.70
9:I2:1048:GLU:O	16:P3:141:ALA:CA	2.39	0.70
9:I2:1254:VAL:N	14:N3:410:MET:N	2.38	0.70
10:J1:249:ASP:CB	15:O1:272:SER:C	2.61	0.70
17:Q1:214:CYS:CB	17:Q1:281:ARG:HD2	2.18	0.70
17:Q1:688:THR:HA	17:Q1:692:GLU:OE1	1.90	0.70
17:Q1:922:LEU:HD22	18:R1:688:LEU:HB2	1.74	0.70
17:Q1:1008:MET:CG	17:Q1:1008:MET:CE	2.69	0.70
17:Q2:104:LYS:HD2	17:Q2:120:ILE:CD1	2.21	0.70
17:Q2:532:LYS:HB2	17:Q2:581:PRO:CD	2.21	0.70
26:Y1:1443:MET:HE3	27:Z1:332:GLU:CG	2.19	0.70
27:Z1:307:ILE:O	27:Z1:307:ILE:CG2	2.36	0.70
27:Z2:125:SER:HB2	27:Z2:147:GLU:OE1	1.91	0.70
27:Z2:178:ARG:NH2	27:Z2:340:ASP:OD1	2.23	0.70
27:Z2:361:LYS:HZ1	27:Z2:378:ASP:CB	2.02	0.70
27:Z2:424:PRO:HB2	27:Z2:439:LEU:CD2	2.22	0.70
29:b1:59:VAL:O	29:b1:59:VAL:CG2	2.36	0.70
1:A3:1225:PRO:HA	1:A4:643:ALA:CB	2.21	0.70
6:F1:153:LEU:HG	9:I1:1395:LEU:HD21	1.73	0.70
6:F1:153:LEU:HB3	9:I1:1395:LEU:CD2	2.20	0.70
6:F1:1806:ARG:C	14:N2:412:ASN:OD1	2.20	0.70
9:I2:895:ARG:CZ	13:M3:585:LEU:O	2.39	0.70
9:I2:1033:PRO:CG	13:M3:616:LEU:C	2.57	0.70
9:I2:1102:GLN:N	15:O3:272:SER:C	1.68	0.70
9:I2:1171:GLU:OE2	14:N3:427:VAL:HG12	1.91	0.70
10:J1:248:VAL:HG13	15:O1:272:SER:C	2.17	0.70
17:Q1:63:GLU:HG2	17:Q1:68:ILE:HG12	1.73	0.70
17:Q1:503:TYR:HE1	17:Q1:538:ILE:HG13	1.50	0.70
17:Q1:945:ARG:O	17:Q1:948:GLN:HG2	1.90	0.70
17:Q2:887:TRP:HA	17:Q2:890:GLN:CG	2.21	0.70
17:Q2:972:CYS:HB3	17:Q2:975:PHE:CD2	2.26	0.70
25:X1:690:GLN:CD	27:Z1:577:LEU:HB3	2.01	0.70
25:X2:774:ASN:CB	25:X2:798:ASN:HB2	2.21	0.70
27:Z1:182:ILE:CA	27:Z1:198:ASN:OD1	2.40	0.70
27:Z1:252:GLN:CD	27:Z1:334:SER:HG	1.88	0.70
27:Z1:289:PRO:HD3	27:Z1:350:LEU:HB3	1.71	0.70
27:Z1:399:GLU:CD	27:Z2:263:TRP:CE3	2.68	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:424:PRO:HB2	27:Z1:439:LEU:CD2	2.21	0.70
27:Z2:424:PRO:CB	27:Z2:439:LEU:CD2	2.70	0.70
29:b2:27:ILE:CG2	29:b2:48:GLN:OE1	2.40	0.70
1:A3:1269:ALA:O	1:A4:729:SER:N	2.12	0.70
1:A4:581:LYS:HZ2	4:D3:1031:ARG:NH2	1.88	0.70
6:F1:272:GLU:OE1	9:I1:1210:ILE:CA	2.32	0.70
9:I2:964:SER:C	16:P3:149:ARG:HA	2.13	0.70
9:I2:1182:GLN:HE22	10:J2:245:GLU:HB3	1.56	0.70
9:I2:1308:THR:CG2	14:N3:414:ALA:HB2	2.21	0.70
17:Q1:443:TRP:CE3	17:Q1:504:PHE:HE1	2.09	0.70
17:Q1:1006:TYR:HB2	17:Q1:1018:PRO:HG3	1.72	0.70
17:Q2:704:SER:H	17:Q2:707:PRO:HG2	1.57	0.70
18:R1:402:GLY:N	18:R1:444:ALA:HB1	1.91	0.70
18:R1:631:ILE:HD13	18:R1:632:LYS:N	2.06	0.70
22:U1:289:GLN:HG3	25:X1:794:ILE:O	1.90	0.70
22:U1:295:GLU:HG2	26:Y1:1367:LYS:HD2	1.72	0.70
22:U1:296:LEU:HD12	27:Z1:657:TYR:N	2.04	0.70
25:X2:684:VAL:O	27:Z2:447:PHE:HD1	1.75	0.70
25:X2:717:LYS:HZ1	26:Y2:1320:LEU:HD12	1.56	0.70
25:X2:774:ASN:HA	25:X2:797:LEU:HD12	1.67	0.70
26:Y1:1211:LEU:CD2	26:Y1:1214:ILE:CD1	2.09	0.70
26:Y1:1235:MET:C	26:Y1:1239:PHE:CE2	2.69	0.70
27:Z1:192:LEU:O	27:Z1:209:TYR:O	2.10	0.70
27:Z1:329:LYS:HE3	27:Z1:333:MET:HG3	1.72	0.70
27:Z1:381:ILE:HD11	27:Z1:424:PRO:HG3	1.73	0.70
27:Z2:35:ILE:HD12	27:Z2:429:ILE:HD11	1.74	0.70
27:Z2:582:GLU:HA	27:Z2:582:GLU:OE1	1.75	0.70
29:b1:41:ILE:O	29:b1:45:VAL:HG22	1.91	0.70
6:F1:982:PRO:HB3	9:I1:1455:ARG:CB	2.21	0.70
6:F2:139:GLN:C	9:I2:1391:THR:HG22	2.16	0.70
9:I1:921:GLU:H	15:O1:190:ARG:CZ	2.03	0.70
9:I2:895:ARG:CG	13:M3:583:ASP:O	2.39	0.70
9:I2:904:GLU:CD	15:O3:235:ASN:ND2	2.46	0.70
9:I2:963:LEU:HG	16:P3:152:LYS:N	1.93	0.70
9:I2:982:GLN:CD	15:O3:179:LEU:HD13	2.17	0.70
9:I2:1046:HIS:CE1	14:N3:289:PHE:CE2	2.79	0.70
17:Q1:276:LEU:HD13	17:Q1:296:GLN:HE21	1.54	0.70
17:Q1:742:LEU:CA	17:Q1:745:ILE:HD12	2.14	0.70
17:Q1:745:ILE:HD13	17:Q1:800:GLN:CD	2.17	0.70
17:Q2:214:CYS:CB	17:Q2:281:ARG:HD2	2.18	0.70
17:Q2:563:PHE:HA	17:Q2:566:ASN:OD1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:727:PHE:O	17:Q2:730:GLU:HG2	1.91	0.70
17:Q2:775:ILE:O	17:Q2:779:ASN:HB2	1.92	0.70
17:Q2:945:ARG:O	17:Q2:948:GLN:HG2	1.90	0.70
18:R1:8:GLN:C	18:R1:10:GLU:H	1.99	0.70
25:X1:644:TRP:CZ3	26:Y1:1225:PHE:HB2	2.25	0.70
25:X2:777:ASN:C	25:X2:793:LEU:HB2	2.17	0.70
26:Y1:1339:PHE:CD2	27:Z1:630:TRP:CD2	2.72	0.70
1:A4:442:ARG:NH2	4:D3:1022:PRO:CD	2.55	0.70
6:F2:1049:GLN:HE22	9:I2:1391:THR:H	1.37	0.70
9:I1:980:ILE:HD12	15:O1:172:ALA:CA	2.18	0.70
9:I1:1034:ASP:HB2	16:P1:144:ASP:CA	2.22	0.70
9:I2:1023:ASP:OD1	9:I2:1096:ARG:NH1	2.25	0.70
9:I2:1034:ASP:OD2	13:M3:622:VAL:HG21	1.91	0.70
9:I2:1099:ARG:HA	15:O3:268:GLY:O	1.92	0.70
17:Q1:294:THR:HG22	17:Q1:308:ILE:CG1	2.21	0.70
17:Q1:331:LEU:HA	17:Q1:353:ASP:OD1	1.92	0.70
17:Q1:443:TRP:CD2	17:Q1:504:PHE:HE1	2.06	0.70
17:Q1:532:LYS:HB2	17:Q1:581:PRO:CD	2.21	0.70
17:Q1:843:PHE:HE1	17:Q1:875:PHE:CZ	2.09	0.70
17:Q1:1005:LEU:HD22	17:Q1:1008:MET:CE	2.21	0.70
17:Q2:843:PHE:HE1	17:Q2:875:PHE:CZ	2.09	0.70
17:Q2:922:LEU:HD13	19:R2:688:LEU:O	1.86	0.70
25:X1:662:ILE:HD13	27:Z1:549:ILE:HG23	1.68	0.70
25:X2:695:GLN:HG3	27:Z2:431:TRP:CB	2.22	0.70
25:X2:804:LEU:HD21	27:Z2:694:ILE:HG12	1.73	0.70
27:Z1:361:LYS:HZ1	27:Z1:378:ASP:CB	2.02	0.70
27:Z2:359:GLU:CG	27:Z2:361:LYS:HE2	2.21	0.70
27:Z2:627:GLU:O	27:Z2:631:PHE:CD2	2.43	0.70
29:b2:16:ILE:HD11	29:b2:77:VAL:HG11	1.64	0.70
29:b2:46:LYS:CE	29:b2:59:VAL:N	2.55	0.70
9:I1:1182:GLN:HE22	10:J1:245:GLU:HB3	1.56	0.70
9:I2:890:TYR:HD2	13:M3:590:LYS:HD2	1.57	0.70
9:I2:1168:ALA:HB3	15:O3:269:ILE:CG2	2.22	0.70
9:I2:1304:ASN:HD22	14:N3:414:ALA:HB3	1.57	0.70
9:I2:1305:LEU:HD21	15:O3:260:LEU:CG	2.21	0.70
17:Q1:104:LYS:HD2	17:Q1:120:ILE:CD1	2.21	0.70
17:Q1:386:PHE:CE2	17:Q1:563:PHE:CD1	2.80	0.70
17:Q1:526:SER:CB	17:Q1:531:LEU:HD11	2.22	0.70
17:Q1:740:GLU:O	17:Q1:744:LYS:HG2	1.91	0.70
17:Q1:773:ASN:O	17:Q1:777:ILE:HG12	1.92	0.70
17:Q1:775:ILE:O	17:Q1:779:ASN:HB2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:887:TRP:HA	17:Q1:890:GLN:CG	2.21	0.70
17:Q2:891:ILE:HD12	19:R2:715:LEU:HD21	1.60	0.70
17:Q2:929:LEU:CD2	19:R2:714:TYR:CE1	2.73	0.70
20:S2:170:GLY:HA3	21:T2:12:ILE:HD12	1.73	0.70
26:Y1:1272:ILE:O	26:Y1:1276:ILE:HG13	1.92	0.70
26:Y1:1294:LYS:HG3	27:Z1:588:TRP:NE1	2.01	0.70
27:Z1:135:LYS:HE2	27:Z1:218:LEU:HD21	1.72	0.70
27:Z1:359:GLU:CG	27:Z1:361:LYS:HE2	2.21	0.70
27:Z1:379:ASN:OD1	27:Z1:380:ILE:HD12	1.92	0.70
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CD1	2.26	0.70
27:Z2:381:ILE:HD11	27:Z2:424:PRO:HG3	1.73	0.70
27:Z2:387:MET:CE	27:Z2:391:SER:HB2	2.04	0.70
29:b2:71:HIS:CD2	29:b2:71:HIS:H	2.10	0.70
1:A3:1223:GLU:HB3	1:A4:648:TYR:CD2	1.45	0.70
1:A3:1328:ARG:NH2	4:D3:872:LEU:HD21	2.07	0.70
1:A3:1400:SER:N	4:D3:869:THR:HG21	1.97	0.70
9:I1:917:TYR:O	15:O1:194:GLU:HB3	1.90	0.70
9:I1:961:ARG:NH1	15:O1:190:ARG:H	1.84	0.70
9:I1:1050:SER:C	14:N1:293:LYS:HG3	2.01	0.70
9:I2:911:PRO:HB3	15:O3:197:ARG:HE	0.87	0.70
9:I2:961:ARG:HG3	16:P3:155:GLU:H	1.57	0.70
9:I2:1026:TYR:HE1	13:M3:609:GLY:HA2	1.53	0.70
9:I2:1255:HIS:NE2	14:N3:404:GLU:O	2.24	0.70
17:Q1:711:ASN:OD1	17:Q1:715:LEU:HD13	1.92	0.70
17:Q1:925:ASN:ND2	18:R1:695:ALA:HB3	2.06	0.70
17:Q2:214:CYS:HB3	17:Q2:281:ARG:CD	2.18	0.70
17:Q2:276:LEU:CB	17:Q2:280:THR:HG23	2.22	0.70
17:Q2:740:GLU:O	17:Q2:744:LYS:HG2	1.92	0.70
19:R2:531:ILE:HG23	19:R2:580:PHE:CE1	2.26	0.70
19:R2:634:PHE:CE1	19:R2:635:LEU:HG	2.27	0.70
25:X1:817:GLN:O	25:X1:820:SER:OG	2.09	0.70
25:X2:665:TRP:CD1	26:Y2:1267:GLU:CB	2.74	0.70
25:X2:694:ASP:HB2	27:Z2:431:TRP:CA	2.22	0.70
26:Y1:1431:MET:CA	26:Y1:1434:PHE:CE2	2.74	0.70
26:Y1:1455:ASN:CA	26:Y1:1456:LEU:N	2.54	0.70
26:Y2:1334:LEU:HD23	27:Z1:110:GLN:N	1.42	0.70
27:Z1:24:ARG:CZ	27:Z1:440:MET:CA	2.69	0.70
27:Z1:27:PHE:CE1	27:Z1:36:VAL:CB	2.63	0.70
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CD2	2.75	0.70
27:Z1:544:THR:OG1	27:Z2:558:PHE:HB2	1.92	0.70
27:Z2:233:MET:HE1	27:Z2:334:SER:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b2:10:ILE:CG2	29:b2:12:LYS:CE	2.67	0.70
6:F1:983:SER:HB3	9:I1:1459:ASN:OD1	1.92	0.69
6:F1:1392:LEU:CG	15:O2:259:ASP:OD1	2.38	0.69
9:I1:1023:ASP:OD1	9:I1:1096:ARG:NH1	2.25	0.69
9:I1:1034:ASP:HB2	16:P1:144:ASP:HB3	1.73	0.69
9:I2:1106:LYS:CE	14:N3:430:ARG:HH11	1.84	0.69
17:Q2:196:LEU:HD12	17:Q2:198:LEU:CD2	2.22	0.69
17:Q2:394:LYS:HG2	17:Q2:395:PHE:H	1.57	0.69
17:Q2:822:ASP:OD1	17:Q2:824:ASN:HB2	1.92	0.69
18:R1:635:LEU:CD1	18:R1:655:ILE:HB	2.22	0.69
19:R2:62:VAL:HG12	19:R2:66:LYS:HE3	1.73	0.69
19:R2:691:THR:CG2	19:R2:718:VAL:HG21	2.22	0.69
22:U1:288:LEU:HD13	25:X1:792:GLN:O	1.92	0.69
22:U1:289:GLN:CG	25:X1:794:ILE:C	2.49	0.69
27:Z1:136:SER:C	27:Z1:217:LEU:CG	2.64	0.69
27:Z2:252:GLN:NE2	27:Z2:335:MET:CA	2.53	0.69
27:Z2:335:MET:SD	27:Z2:337:TRP:CH2	2.85	0.69
29:b1:24:ILE:HG22	29:b1:79:PHE:HZ	1.57	0.69
29:b2:72:GLU:CB	29:b2:75:HIS:CG	2.75	0.69
1:A2:1196:GLU:OE2	1:A1:590:SER:CB	2.40	0.69
1:A2:1200:ARG:CB	1:A1:595:GLU:HB3	2.20	0.69
1:A2:1274:ASP:C	1:A1:642:ARG:HH11	2.00	0.69
9:I1:714:THR:O	9:I1:718:GLN:NE2	2.25	0.69
9:I1:895:ARG:HB3	13:M1:583:ASP:OD1	1.92	0.69
17:Q1:100:ASN:OD1	17:Q1:105:VAL:HG22	1.92	0.69
17:Q1:142:PHE:CD1	17:Q1:143:PRO:HD2	2.27	0.69
17:Q1:166:ILE:HB	17:Q1:173:ILE:HG22	1.71	0.69
17:Q1:362:ILE:CG2	17:Q1:511:PRO:O	2.40	0.69
17:Q1:839:PHE:CD1	17:Q1:840:PRO:HD2	2.27	0.69
17:Q2:100:ASN:OD1	17:Q2:105:VAL:HG22	1.92	0.69
17:Q2:142:PHE:CD1	17:Q2:143:PRO:HD2	2.27	0.69
17:Q2:847:LEU:HD11	17:Q2:875:PHE:CE2	2.27	0.69
18:R1:650:GLU:HA	18:R1:653:TYR:CE2	2.27	0.69
19:R2:511:ILE:HA	19:R2:549:PHE:CE1	2.27	0.69
19:R2:586:GLN:HE21	19:R2:630:LEU:CD1	2.03	0.69
25:X1:662:ILE:HG23	27:Z1:556:GLN:NE2	2.07	0.69
25:X2:680:TYR:CE1	27:Z2:439:LEU:HD12	2.26	0.69
25:X2:807:LEU:HD21	27:Z2:698:ASN:CB	2.08	0.69
26:Y1:1236:ASP:N	26:Y1:1239:PHE:CE2	2.56	0.69
26:Y2:1410:GLN:HB3	27:Z2:711:LYS:CE	2.12	0.69
27:Z2:47:ASN:HB3	27:Z2:50:THR:OG1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:182:ILE:CA	27:Z2:198:ASN:OD1	2.40	0.69
27:Z2:294:LEU:HD12	27:Z2:325:ILE:HD11	1.73	0.69
29:b2:16:ILE:HG22	29:b2:74:GLY:O	1.91	0.69
1:A2:1221:ILE:C	1:A1:600:LYS:HG3	2.17	0.69
1:A2:1221:ILE:HB	1:A1:600:LYS:CG	2.22	0.69
1:A4:622:GLY:C	4:D3:977:GLU:HG3	2.08	0.69
6:F1:158:PRO:HG2	9:I1:1339:LEU:C	2.17	0.69
9:I1:754:ARG:H	13:M1:556:MET:CE	2.05	0.69
9:I1:1106:LYS:HE3	13:M1:611:LYS:CG	2.15	0.69
9:I2:1026:TYR:CD1	13:M3:612:PRO:CG	2.43	0.69
17:Q1:63:GLU:HG2	17:Q1:68:ILE:HG13	1.73	0.69
17:Q1:563:PHE:HA	17:Q1:566:ASN:OD1	1.91	0.69
17:Q2:63:GLU:HG2	17:Q2:68:ILE:HG12	1.72	0.69
17:Q2:227:ARG:HD2	17:Q2:229:PHE:CZ	2.27	0.69
17:Q2:528:GLU:CB	17:Q2:579:ILE:HD12	2.23	0.69
17:Q2:688:THR:HG22	17:Q2:692:GLU:HB2	1.72	0.69
17:Q2:699:MET:CE	17:Q2:699:MET:CG	2.69	0.69
17:Q2:1005:LEU:HD22	17:Q2:1008:MET:CE	2.21	0.69
17:Q2:1006:TYR:HB2	17:Q2:1018:PRO:HG3	1.72	0.69
18:R1:701:ILE:HG22	18:R1:705:PHE:HE1	1.55	0.69
25:X2:662:ILE:HG23	27:Z2:556:GLN:NE2	2.07	0.69
25:X2:693:ILE:HD12	27:Z2:7:LEU:CB	2.21	0.69
25:X2:721:LEU:HD21	26:Y2:1319:PHE:HD2	1.55	0.69
26:Y2:1402:LEU:HA	26:Y2:1405:GLN:HG2	1.75	0.69
27:Z1:165:VAL:CG1	27:Z1:168:LYS:HG2	2.22	0.69
27:Z1:395:LYS:CE	27:Z2:266:ARG:CG	2.70	0.69
27:Z2:119:GLU:C	27:Z2:119:GLU:N	2.50	0.69
27:Z2:165:VAL:CG1	27:Z2:168:LYS:HG2	2.22	0.69
29:b1:15:ASP:O	29:b1:74:GLY:C	2.35	0.69
1:A3:1328:ARG:HG2	4:D3:872:LEU:HD22	0.89	0.69
9:I2:1109:LEU:HD23	15:O3:284:LYS:HZ3	1.56	0.69
17:Q1:72:LEU:HD12	17:Q1:110:ILE:HG22	1.74	0.69
17:Q1:139:ILE:CB	17:Q1:211:MET:HE1	2.21	0.69
17:Q2:288:ASN:O	17:Q2:333:ILE:HG22	1.91	0.69
17:Q2:527:ILE:H	17:Q2:527:ILE:HD13	1.57	0.69
17:Q2:600:PHE:HZ	17:Q2:675:LEU:HD13	1.56	0.69
17:Q2:705:LYS:HA	17:Q2:710:ILE:CD1	2.22	0.69
17:Q2:839:PHE:CD1	17:Q2:840:PRO:HD2	2.27	0.69
18:R1:586:GLN:NE2	18:R1:630:LEU:HD13	2.04	0.69
18:R1:634:PHE:CE1	18:R1:635:LEU:HG	2.27	0.69
18:R1:679:LYS:HG3	18:R1:680:ILE:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:527:SER:HB3	24:W1:739:PHE:O	1.90	0.69
24:W2:404:VAL:HG11	24:W2:438:GLU:HA	1.73	0.69
25:X1:687:GLU:OE2	27:Z1:573:LYS:HB3	1.92	0.69
25:X1:778:LYS:O	25:X1:778:LYS:CD	2.39	0.69
25:X2:693:ILE:HD13	27:Z2:7:LEU:CD1	2.21	0.69
25:X2:695:GLN:HG2	27:Z2:431:TRP:HA	1.72	0.69
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:CG	2.22	0.69
27:Z1:541:LYS:HE3	27:Z2:552:ARG:CB	2.22	0.69
27:Z1:543:GLN:C	27:Z2:554:HIS:HE1	1.76	0.69
27:Z2:136:SER:C	27:Z2:217:LEU:CG	2.64	0.69
27:Z2:307:ILE:CD1	27:Z2:371:GLY:HA2	2.23	0.69
27:Z2:611:GLN:C	27:Z2:612:ILE:CA	2.64	0.69
29:b1:42:ALA:C	29:b1:59:VAL:HG21	2.16	0.69
1:A2:1204:TRP:CD2	1:A1:598:VAL:HG12	2.26	0.69
1:A2:1221:ILE:CG1	1:A1:596:ARG:O	2.40	0.69
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CG	2.28	0.69
6:F2:143:GLY:N	9:I2:1395:LEU:CG	2.54	0.69
9:I2:964:SER:N	16:P3:152:LYS:CE	2.55	0.69
9:I2:1102:GLN:HG3	15:O3:269:ILE:O	1.91	0.69
9:I2:1302:ARG:HD3	15:O3:263:GLN:CD	2.17	0.69
17:Q1:332:LYS:O	17:Q1:351:ILE:HG23	1.92	0.69
17:Q1:528:GLU:CB	17:Q1:579:ILE:HD12	2.23	0.69
17:Q1:703:THR:HB	17:Q1:707:PRO:HB2	1.73	0.69
17:Q1:802:ILE:O	17:Q1:802:ILE:HD13	1.92	0.69
17:Q1:812:SER:O	17:Q1:815:VAL:HG22	1.91	0.69
19:R2:162:LEU:HB3	20:S2:315:LYS:HG3	1.74	0.69
22:U1:295:GLU:HG3	26:Y1:1367:LYS:HD2	1.75	0.69
26:Y1:1236:ASP:CA	26:Y1:1239:PHE:CD2	2.72	0.69
26:Y2:1272:ILE:O	26:Y2:1276:ILE:HG13	1.92	0.69
26:Y2:1321:MET:HA	27:Z1:51:ASP:HB2	1.70	0.69
26:Y2:1430:ASP:CB	26:Y2:1434:PHE:CE1	2.71	0.69
27:Z1:363:LEU:CG	27:Z1:373:LEU:HD11	2.22	0.69
27:Z1:422:ARG:HE	27:Z1:442:ASN:ND2	1.91	0.69
27:Z1:428:TYR:HH	27:Z1:435:SER:CB	2.04	0.69
29:b2:10:ILE:O	29:b2:79:PHE:CB	2.40	0.69
6:F1:143:GLY:CA	9:I1:1394:ASN:OD1	2.37	0.69
6:F1:1807:GLU:O	14:N2:411:GLN:NE2	2.24	0.69
9:I1:981:VAL:CG1	15:O1:176:ARG:HG3	2.21	0.69
9:I1:1034:ASP:HB2	16:P1:144:ASP:HA	1.74	0.69
9:I1:1182:GLN:NE2	10:J1:245:GLU:HB3	2.07	0.69
9:I2:919:ALA:C	16:P3:157:GLU:HB3	2.16	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1048:GLU:C	16:P3:141:ALA:CB	2.62	0.69
9:I2:1175:LYS:CE	15:O3:277:GLU:CD	2.65	0.69
17:Q1:227:ARG:HD2	17:Q1:229:PHE:CZ	2.27	0.69
17:Q1:426:ILE:HD12	17:Q1:443:TRP:HH2	1.58	0.69
18:R1:162:LEU:HB3	20:S1:315:LYS:HG3	1.74	0.69
18:R1:626:ASP:O	18:R1:630:LEU:HG	1.93	0.69
19:R2:650:GLU:HA	19:R2:653:TYR:CE2	2.27	0.69
26:Y1:1449:ILE:HG22	26:Y1:1453:PHE:HE2	1.45	0.69
27:Z1:307:ILE:CD1	27:Z1:371:GLY:HA2	2.23	0.69
27:Z2:331:LEU:HD12	27:Z2:347:SER:CB	2.22	0.69
27:Z2:422:ARG:HE	27:Z2:442:ASN:ND2	1.91	0.69
29:b2:16:ILE:CD1	29:b2:77:VAL:HG12	2.22	0.69
6:F1:1807:GLU:O	14:N2:411:GLN:CD	2.36	0.69
9:I2:896:PRO:HB2	15:O3:234:LEU:HD11	1.75	0.69
17:Q1:822:ASP:OD1	17:Q1:824:ASN:HB2	1.92	0.69
17:Q2:283:VAL:HG21	17:Q2:297:LEU:HD11	1.74	0.69
17:Q2:332:LYS:O	17:Q2:351:ILE:HG23	1.92	0.69
17:Q2:584:LYS:NZ	17:Q2:590:LYS:HD2	2.07	0.69
18:R1:650:GLU:HA	18:R1:653:TYR:CD2	2.26	0.69
19:R2:631:ILE:HD13	19:R2:632:LYS:N	2.06	0.69
19:R2:650:GLU:HA	19:R2:653:TYR:CD2	2.26	0.69
22:U1:206:ALA:N	27:Z1:668:GLU:OE2	2.25	0.69
25:X2:680:TYR:CZ	27:Z2:420:ILE:HG22	2.26	0.69
25:X2:694:ASP:CA	27:Z2:431:TRP:HB3	2.22	0.69
26:Y2:1235:MET:C	26:Y2:1239:PHE:CE2	2.71	0.69
26:Y2:1454:LYS:NZ	27:Z2:288:ASN:HB2	2.05	0.69
27:Z1:335:MET:SD	27:Z1:337:TRP:CH2	2.85	0.69
27:Z1:542:ALA:H	27:Z2:551:ASN:HA	1.56	0.69
27:Z2:117:ASP:C	27:Z2:124:LYS:HZ1	1.99	0.69
27:Z2:342:TYR:CE1	27:Z2:344:TYR:CE2	2.69	0.69
1:A2:1223:GLU:OE1	1:A1:611:ILE:HD11	1.90	0.69
1:A2:1271:ILE:HG23	1:A1:730:THR:O	1.93	0.69
1:A2:1313:LYS:NZ	1:A1:728:LYS:HZ3	1.87	0.69
1:A3:1221:ILE:N	1:A4:595:GLU:CB	2.49	0.69
1:A3:1223:GLU:HG3	1:A4:647:GLU:CB	2.19	0.69
1:A4:827:ILE:HG23	1:A4:850:PRO:HD3	1.73	0.69
1:A4:827:ILE:CD1	1:A4:849:SER:OG	2.41	0.69
6:F1:138:ILE:CG2	9:I1:1392:VAL:CG2	2.69	0.69
6:F1:1049:GLN:HB3	9:I1:1388:GLU:N	2.08	0.69
9:I1:921:GLU:H	15:O1:190:ARG:NH1	1.90	0.69
9:I1:925:LEU:HD21	15:O1:188:ALA:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1034:ASP:HB2	16:P1:144:ASP:CB	2.23	0.69
9:I1:1357:LYS:CE	15:O1:263:GLN:HG3	2.19	0.69
9:I2:899:LEU:C	13:M3:581:LEU:HA	2.18	0.69
9:I2:909:ARG:HB3	13:M3:580:LYS:HZ1	1.57	0.69
9:I2:963:LEU:C	16:P3:152:LYS:CE	2.66	0.69
9:I2:1305:LEU:CG	15:O3:264:ILE:HG12	2.21	0.69
17:Q1:381:TYR:C	17:Q1:512:ILE:CB	2.54	0.69
17:Q1:584:LYS:NZ	17:Q1:590:LYS:HD2	2.07	0.69
17:Q1:703:THR:CB	17:Q1:707:PRO:HB2	2.23	0.69
17:Q1:705:LYS:HA	17:Q1:710:ILE:CD1	2.22	0.69
17:Q1:786:LEU:HB3	17:Q1:811:LEU:HG	1.73	0.69
17:Q1:806:GLU:O	17:Q1:809:LYS:HD3	1.93	0.69
17:Q1:868:HIS:O	17:Q1:872:ILE:HG13	1.93	0.69
17:Q2:310:VAL:CG2	17:Q2:368:PHE:HE2	2.06	0.69
17:Q2:331:LEU:HA	17:Q2:353:ASP:OD1	1.92	0.69
17:Q2:417:LEU:HD12	17:Q2:465:LEU:HB2	1.75	0.69
17:Q2:449:LEU:HB3	17:Q2:453:ILE:HD12	1.73	0.69
17:Q2:526:SER:CB	17:Q2:531:LEU:HD11	2.22	0.69
17:Q2:773:ASN:O	17:Q2:777:ILE:HG12	1.92	0.69
17:Q2:791:VAL:CG1	17:Q2:792:LEU:HD12	2.17	0.69
17:Q2:802:ILE:O	17:Q2:802:ILE:HD13	1.92	0.69
17:Q2:1149:ASN:HB3	17:Q2:1152:THR:OG1	1.93	0.69
19:R2:635:LEU:CD1	19:R2:655:ILE:HB	2.22	0.69
22:U1:288:LEU:HD13	25:X1:792:GLN:HA	1.70	0.69
25:X2:687:GLU:OE2	27:Z2:573:LYS:HB3	1.92	0.69
25:X2:790:ASN:ND2	27:Z2:680:TRP:CH2	2.56	0.69
25:X2:821:ILE:HG22	26:Y2:1409:LEU:HD21	1.75	0.69
26:Y1:1402:LEU:HA	26:Y1:1405:GLN:HG2	1.75	0.69
26:Y2:1215:GLU:O	26:Y2:1219:GLN:HG3	1.93	0.69
26:Y2:1294:LYS:CG	27:Z2:588:TRP:HE1	2.00	0.69
27:Z1:35:ILE:HD12	27:Z1:429:ILE:HD11	1.74	0.69
27:Z1:424:PRO:CB	27:Z1:439:LEU:CD2	2.70	0.69
27:Z1:634:ILE:CG2	27:Z1:638:ILE:HD11	2.23	0.69
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:CD2	1.79	0.69
1:A2:1200:ARG:CG	1:A1:595:GLU:HB3	2.23	0.69
1:A2:1224:PRO:HG3	1:A1:595:GLU:CG	1.84	0.69
6:F1:138:ILE:CD1	9:I1:1388:GLU:O	2.40	0.69
7:G2:252:LEU:HB2	15:O4:251:ILE:CB	2.21	0.69
9:I1:1048:GLU:HB3	14:N1:293:LYS:HZ1	0.87	0.69
9:I1:1051:LYS:HB3	14:N1:293:LYS:HZ3	1.57	0.69
17:Q1:394:LYS:HG2	17:Q1:395:PHE:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:416:ILE:HG12	17:Q1:427:THR:O	1.93	0.69
17:Q1:557:LEU:HD12	17:Q1:632:LYS:HD2	1.74	0.69
17:Q1:570:PHE:HA	17:Q1:573:LYS:HE2	1.75	0.69
17:Q1:886:ALA:O	17:Q1:890:GLN:HG2	1.93	0.69
17:Q2:294:THR:HG22	17:Q2:308:ILE:CG1	2.21	0.69
25:X1:755:LEU:HD11	26:Y1:1349:LEU:CD1	2.13	0.69
26:Y1:1215:GLU:O	26:Y1:1219:GLN:HG3	1.92	0.69
26:Y1:1295:VAL:CA	27:Z1:588:TRP:CH2	2.69	0.69
26:Y1:1371:VAL:C	26:Y1:1372:LYS:CA	2.66	0.69
26:Y2:1316:GLU:HG2	27:Z2:609:LEU:HD13	1.74	0.69
26:Y2:1410:GLN:CA	27:Z2:711:LYS:CE	2.71	0.69
27:Z1:252:GLN:OE1	27:Z1:334:SER:CB	2.41	0.69
27:Z1:331:LEU:HD12	27:Z1:347:SER:CB	2.22	0.69
27:Z1:696:GLU:O	27:Z1:700:GLU:HG2	1.93	0.69
27:Z2:179:VAL:HG22	27:Z2:206:PHE:HE2	1.53	0.69
27:Z2:252:GLN:HB2	27:Z2:335:MET:CE	2.19	0.69
29:b2:71:HIS:CB	29:b2:76:PHE:HD1	2.06	0.69
1:A2:1225:PRO:CG	1:A1:640:LEU:CD2	2.71	0.69
1:A3:871:ASN:ND2	4:D1:515:ASN:CG	2.50	0.69
6:F1:990:GLN:CG	9:I1:1394:ASN:ND2	2.56	0.69
7:G2:254:ASN:OD1	15:O4:252:VAL:CA	2.39	0.69
9:I1:1308:THR:O	9:I1:1312:ASN:ND2	2.26	0.69
9:I2:899:LEU:HB3	13:M3:581:LEU:O	1.92	0.69
9:I2:1308:THR:O	9:I2:1312:ASN:ND2	2.26	0.69
17:Q1:310:VAL:CG2	17:Q1:368:PHE:HE2	2.06	0.69
17:Q1:715:LEU:HD21	17:Q1:751:TYR:CE1	2.28	0.69
17:Q1:847:LEU:HD13	17:Q1:879:ALA:HB2	1.75	0.69
17:Q2:112:SER:OG	17:Q2:116:ASP:HB2	1.93	0.69
17:Q2:745:ILE:HD13	17:Q2:800:GLN:CD	2.17	0.69
17:Q2:887:TRP:HA	17:Q2:890:GLN:HG3	1.75	0.69
18:R1:409:LYS:HZ1	18:R1:447:PHE:C	2.01	0.69
18:R1:511:ILE:HA	18:R1:549:PHE:CE1	2.28	0.69
18:R1:617:ILE:CD1	18:R1:674:ALA:HB2	2.23	0.69
19:R2:506:ILE:HG13	19:R2:507:ASP:N	2.05	0.69
22:U1:289:GLN:HE22	25:X1:794:ILE:HG12	1.55	0.69
25:X2:721:LEU:CD2	26:Y2:1319:PHE:CD2	2.76	0.69
26:Y1:1228:LEU:CD1	27:Z1:539:ILE:HG22	2.22	0.69
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:CG	2.22	0.69
26:Y1:1410:GLN:H	27:Z1:711:LYS:CE	2.06	0.69
26:Y2:1382:VAL:HG11	26:Y2:1385:LEU:HB2	0.71	0.69
27:Z1:233:MET:HE2	27:Z1:249:VAL:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:233:MET:HE1	27:Z1:334:SER:HB2	1.74	0.69
27:Z2:192:LEU:O	27:Z2:209:TYR:O	2.10	0.69
29:b1:10:ILE:HG21	29:b1:12:LYS:CE	2.23	0.69
29:b2:55:ASN:ND2	29:b2:56:THR:O	2.14	0.69
1:A2:1269:ALA:C	1:A1:731:ILE:HG13	2.18	0.68
1:A4:132:ASP:OD2	4:D3:1003:GLU:OE1	2.11	0.68
6:F1:161:ALA:N	9:I1:1335:LYS:N	2.13	0.68
7:G1:249:ASP:O	13:M2:595:MET:CE	2.36	0.68
9:I1:1051:LYS:O	14:N1:293:LYS:NZ	2.26	0.68
9:I2:714:THR:O	9:I2:718:GLN:NE2	2.25	0.68
9:I2:1256:TYR:C	15:O3:256:TYR:CD1	2.63	0.68
17:Q1:196:LEU:HD12	17:Q1:198:LEU:CD2	2.22	0.68
17:Q2:903:LEU:HB3	17:Q2:927:ALA:HB2	1.74	0.68
23:V1:454:LEU:O	23:V1:456:SER:N	2.26	0.68
24:W1:526:ARG:C	24:W1:744:VAL:H	2.00	0.68
25:X1:710:PHE:CZ	26:Y1:1313:ALA:HB2	2.28	0.68
25:X2:676:ILE:CD1	26:Y2:1274:ASN:OD1	2.41	0.68
27:Z1:186:GLU:HG2	27:Z1:302:ILE:O	1.93	0.68
27:Z2:126:SER:N	27:Z2:147:GLU:OE2	2.26	0.68
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CD2	2.76	0.68
27:Z2:233:MET:HE2	27:Z2:249:VAL:HG22	1.75	0.68
27:Z2:241:THR:CB	27:Z2:246:LYS:NZ	2.52	0.68
27:Z2:280:LYS:HE2	27:Z2:338:ASP:HA	1.76	0.68
27:Z2:329:LYS:HE3	27:Z2:333:MET:HG3	1.72	0.68
27:Z2:358:ARG:CZ	27:Z2:382:GLN:HE22	2.02	0.68
27:Z2:363:LEU:CG	27:Z2:373:LEU:HD11	2.22	0.68
9:I2:906:GLY:CA	13:M3:573:ARG:CG	2.71	0.68
9:I2:1049:LEU:HD13	14:N3:296:GLY:HA3	0.69	0.68
17:Q1:141:THR:CG2	17:Q1:163:GLY:HA3	2.23	0.68
17:Q1:449:LEU:HB3	17:Q1:453:ILE:HD12	1.73	0.68
17:Q1:649:PHE:CE2	17:Q1:653:VAL:HG21	2.28	0.68
17:Q1:887:TRP:HA	17:Q1:890:GLN:HG3	1.75	0.68
17:Q2:874:PHE:CG	19:R2:726:ASN:OD1	2.47	0.68
17:Q2:1016:PHE:HZ	17:Q2:1070:LEU:HD21	1.58	0.68
18:R1:691:THR:CG2	18:R1:718:VAL:HG21	2.23	0.68
22:U1:241:ARG:HH11	27:Z1:659:LYS:HZ2	1.38	0.68
23:V2:163:LYS:HB2	23:V2:172:PHE:CD1	2.29	0.68
24:W1:406:ARG:HD3	24:W1:720:PHE:HA	1.74	0.68
25:X2:692:LYS:CD	27:Z2:10:LEU:HB3	2.24	0.68
26:Y1:1382:VAL:C	26:Y2:1364:ASN:HB2	1.96	0.68
26:Y2:1454:LYS:HE3	27:Z2:349:VAL:CG2	2.15	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:177:ALA:O	27:Z1:178:ARG:HG2	1.94	0.68
27:Z1:179:VAL:HG11	27:Z1:198:ASN:ND2	2.08	0.68
27:Z1:335:MET:SD	27:Z1:337:TRP:HZ3	2.17	0.68
27:Z2:27:PHE:HE2	27:Z2:36:VAL:HG22	1.36	0.68
29:b2:16:ILE:HG13	29:b2:21:LYS:CE	2.14	0.68
6:F1:138:ILE:HD13	9:I1:1388:GLU:HA	1.75	0.68
9:I1:918:SER:HA	15:O1:193:ALA:CB	2.22	0.68
9:I2:916:ALA:HB2	15:O3:193:ALA:N	2.07	0.68
9:I2:1048:GLU:HG3	14:N3:293:LYS:HB2	1.74	0.68
9:I2:1182:GLN:NE2	10:J2:245:GLU:HB3	2.07	0.68
17:Q1:112:SER:OG	17:Q1:116:ASP:HB2	1.93	0.68
17:Q1:210:LEU:CD1	17:Q1:212:LEU:HD23	2.20	0.68
17:Q1:594:LEU:HD23	17:Q1:639:PRO:CD	2.19	0.68
17:Q1:903:LEU:HB3	17:Q1:927:ALA:HB2	1.74	0.68
17:Q2:139:ILE:HB	17:Q2:211:MET:CE	2.22	0.68
17:Q2:430:ASN:HD22	17:Q2:439:MET:HE3	1.58	0.68
17:Q2:824:ASN:HD21	17:Q2:833:GLU:CB	2.04	0.68
17:Q2:1137:ILE:HG13	17:Q2:1138:GLY:N	2.08	0.68
18:R1:13:THR:O	18:R1:17:ASP:N	2.24	0.68
18:R1:475:ILE:O	18:R1:479:THR:HG23	1.92	0.68
23:V2:454:LEU:O	23:V2:456:SER:N	2.25	0.68
25:X2:717:LYS:CB	26:Y2:1320:LEU:HD11	2.20	0.68
25:X2:788:ASP:N	25:X2:788:ASP:CA	0.60	0.68
26:Y2:1291:LEU:HD13	27:Z2:581:PHE:HD1	1.47	0.68
27:Z1:359:GLU:CB	27:Z1:361:LYS:HE3	2.24	0.68
29:b1:27:ILE:HG22	29:b1:45:VAL:HG12	1.74	0.68
1:A2:1222:ALA:HB2	1:A1:600:LYS:HB2	1.75	0.68
1:A4:1048:ARG:O	4:D4:1096:TYR:OH	2.09	0.68
7:G2:252:LEU:CB	15:O4:251:ILE:HB	2.22	0.68
9:I1:909:ARG:HA	13:M1:548:LEU:HD21	1.72	0.68
9:I1:966:TRP:CB	15:O1:179:LEU:N	2.56	0.68
17:Q1:718:ILE:HG22	17:Q1:722:PHE:HE1	1.58	0.68
17:Q1:847:LEU:HD11	17:Q1:875:PHE:CE2	2.27	0.68
17:Q2:416:ILE:HG12	17:Q2:427:THR:O	1.93	0.68
17:Q2:532:LYS:HD3	17:Q2:581:PRO:CG	2.14	0.68
17:Q2:533:LEU:O	17:Q2:533:LEU:HD23	1.94	0.68
17:Q2:557:LEU:HD12	17:Q2:632:LYS:HD2	1.74	0.68
17:Q2:614:TRP:O	17:Q2:617:THR:HG22	1.94	0.68
17:Q2:711:ASN:OD1	17:Q2:715:LEU:HD13	1.92	0.68
18:R1:633:THR:CG2	18:R1:636:VAL:HG21	2.21	0.68
19:R2:624:SER:HB2	19:R2:667:LEU:HD23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:626:ASP:O	19:R2:630:LEU:HG	1.93	0.68
22:U1:296:LEU:HB2	27:Z1:655:LEU:O	1.85	0.68
24:W1:400:LYS:HE3	24:W1:716:GLU:CA	2.23	0.68
25:X1:721:LEU:CD2	26:Y1:1319:PHE:CD2	2.76	0.68
25:X1:790:ASN:N	27:Z1:680:TRP:CZ2	2.62	0.68
25:X2:717:LYS:CE	26:Y2:1320:LEU:HD11	1.89	0.68
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD22	2.10	0.68
26:Y1:1316:GLU:HG2	27:Z1:609:LEU:HD13	1.74	0.68
27:Z1:126:SER:N	27:Z1:147:GLU:OE2	2.26	0.68
27:Z1:126:SER:C	27:Z1:147:GLU:OE2	2.37	0.68
27:Z1:401:ASP:O	27:Z1:404:PRO:HD2	1.94	0.68
27:Z2:359:GLU:CB	27:Z2:361:LYS:HE3	2.24	0.68
27:Z2:634:ILE:CG2	27:Z2:638:ILE:HD11	2.23	0.68
29:b1:16:ILE:HG13	29:b1:21:LYS:HD2	1.71	0.68
1:A3:1222:ALA:CB	1:A4:598:VAL:HB	2.24	0.68
1:A3:1272:GLY:HA2	1:A4:727:ASN:HA	1.74	0.68
6:F1:138:ILE:CG2	9:I1:1391:THR:HG22	2.22	0.68
9:I1:916:ALA:O	13:M1:534:GLN:NE2	2.26	0.68
9:I1:1034:ASP:HB3	16:P1:147:LEU:HD23	1.76	0.68
9:I1:1359:ASP:O	15:O1:266:GLN:OE1	2.04	0.68
9:I2:1095:TYR:CD1	15:O3:268:GLY:CA	2.75	0.68
17:Q2:72:LEU:HD12	17:Q2:110:ILE:HG22	1.74	0.68
17:Q2:104:LYS:HG2	17:Q2:122:VAL:HG22	1.76	0.68
17:Q2:570:PHE:HA	17:Q2:573:LYS:HE2	1.75	0.68
17:Q2:649:PHE:CE2	17:Q2:653:VAL:HG21	2.28	0.68
17:Q2:703:THR:CB	17:Q2:707:PRO:HB2	2.23	0.68
19:R2:679:LYS:HG3	19:R2:680:ILE:N	2.07	0.68
22:U1:296:LEU:HB2	27:Z1:658:LEU:H	1.57	0.68
23:V1:163:LYS:HB2	23:V1:172:PHE:CD1	2.29	0.68
25:X1:650:GLU:O	25:X1:654:HIS:ND1	2.27	0.68
25:X1:776:PHE:HE2	26:Y1:1369:PHE:HD1	1.41	0.68
25:X2:721:LEU:HD22	26:Y2:1319:PHE:CD2	2.28	0.68
26:Y1:1298:TYR:CD2	27:Z1:595:GLN:NE2	2.61	0.68
26:Y1:1429:LYS:NZ	26:Y1:1434:PHE:N	2.41	0.68
26:Y2:1228:LEU:CD1	27:Z2:539:ILE:HG22	2.23	0.68
26:Y2:1230:GLU:HG3	26:Y2:1233:ARG:HH22	1.58	0.68
26:Y2:1339:PHE:CG	27:Z2:630:TRP:CE3	2.73	0.68
26:Y2:1412:GLU:CA	26:Y2:1412:GLU:N	2.57	0.68
29:b1:70:THR:O	29:b2:58:HIS:HE1	1.75	0.68
29:b2:24:ILE:HG22	29:b2:79:PHE:HZ	1.58	0.68
29:b2:32:LEU:CD2	29:b2:41:ILE:HD13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:254:ASN:CG	15:O4:256:TYR:HB2	2.18	0.68
9:I1:1049:LEU:HG	14:N1:293:LYS:O	1.92	0.68
9:I1:1667:GLN:HG2	9:I2:1669:ARG:O	1.94	0.68
9:I2:1025:LEU:O	13:M3:613:ASP:N	2.27	0.68
17:Q1:417:LEU:HD12	17:Q1:465:LEU:HB2	1.75	0.68
17:Q1:546:ILE:HG12	17:Q1:552:THR:OG1	1.93	0.68
17:Q1:1137:ILE:HG13	17:Q1:1138:GLY:N	2.08	0.68
17:Q2:542:ASN:ND2	17:Q2:564:PHE:HB2	2.08	0.68
18:R1:711:LEU:HG	18:R1:714:TYR:HE2	1.59	0.68
22:U1:243:PHE:HD2	27:Z1:657:TYR:CA	1.75	0.68
22:U2:102:CYS:SG	22:U2:103:THR:N	2.67	0.68
25:X1:821:ILE:HG22	26:Y1:1409:LEU:HD21	1.75	0.68
25:X2:665:TRP:CD2	25:X2:669:LEU:HD11	2.29	0.68
25:X2:704:GLN:CD	27:Z2:598:LEU:HD12	2.19	0.68
27:Z1:184:ASP:CG	27:Z1:197:LEU:CB	2.57	0.68
27:Z2:34:ARG:CD	27:Z2:95:TRP:CH2	2.77	0.68
27:Z2:188:SER:OG	27:Z2:195:TYR:CE2	2.29	0.68
27:Z2:696:GLU:O	27:Z2:700:GLU:HG2	1.94	0.68
1:A2:1226:LEU:HD13	1:A1:646:ILE:HB	1.74	0.68
1:A3:1200:ARG:HB3	1:A4:591:ASP:OD1	1.88	0.68
7:G1:247:ASP:C	15:O2:247:TRP:CZ2	2.34	0.68
7:G1:250:THR:OG1	15:O2:247:TRP:CE3	2.33	0.68
9:I1:916:ALA:CB	13:M1:534:GLN:HG2	2.24	0.68
9:I1:1106:LYS:CB	13:M1:613:ASP:HB3	2.23	0.68
9:I2:976:ARG:CZ	15:O3:174:LEU:HD11	2.22	0.68
9:I2:1103:LEU:CB	13:M3:611:LYS:HZ1	1.86	0.68
17:Q1:89:TYR:HD2	17:Q1:90:ILE:CG2	2.07	0.68
17:Q1:171:LYS:NZ	17:Q1:173:ILE:HB	2.09	0.68
17:Q1:430:ASN:HD22	17:Q1:439:MET:HE3	1.59	0.68
17:Q2:925:ASN:O	17:Q2:929:LEU:HD13	1.93	0.68
19:R2:617:ILE:CD1	19:R2:674:ALA:HB2	2.23	0.68
19:R2:664:LEU:HD13	19:R2:690:PHE:HE1	1.59	0.68
22:U1:102:CYS:SG	22:U1:103:THR:N	2.67	0.68
25:X1:717:LYS:CB	26:Y1:1320:LEU:HD11	2.20	0.68
25:X2:778:LYS:CB	25:X2:794:ILE:HG12	2.23	0.68
26:Y2:1367:LYS:C	26:Y2:1383:ALA:HB3	2.17	0.68
27:Z1:41:ASN:HD21	27:Z1:60:SER:CA	1.77	0.68
27:Z1:241:THR:CB	27:Z1:246:LYS:NZ	2.52	0.68
27:Z1:404:PRO:C	27:Z2:271:ASP:OD2	2.36	0.68
27:Z1:630:TRP:HE1	27:Z1:634:ILE:HD11	1.57	0.68
27:Z2:669:THR:HG21	27:Z2:680:TRP:CZ3	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b1:68:TYR:HD2	29:b2:46:LYS:CB	2.05	0.68
29:b1:76:PHE:CE1	29:b1:89:PHE:HB3	2.28	0.68
9:I1:900:ARG:CB	13:M1:580:LYS:CG	2.71	0.68
9:I1:961:ARG:HH12	15:O1:190:ARG:HA	1.56	0.68
9:I1:1050:SER:OG	14:N1:293:LYS:CG	2.42	0.68
9:I2:1107:SER:HB2	13:M3:615:PRO:HB3	1.76	0.68
9:I2:1108:PRO:C	15:O3:281:ALA:CA	2.65	0.68
17:Q1:1149:ASN:HB3	17:Q1:1152:THR:OG1	1.93	0.68
17:Q2:110:ILE:HD12	17:Q2:474:VAL:HG21	1.76	0.68
17:Q2:141:THR:CG2	17:Q2:163:GLY:HA3	2.23	0.68
19:R2:633:THR:CG2	19:R2:636:VAL:HG21	2.21	0.68
25:X2:692:LYS:CG	27:Z2:431:TRP:CE2	2.72	0.68
25:X2:692:LYS:HD2	27:Z2:10:LEU:HB3	1.75	0.68
25:X2:714:PHE:CE2	26:Y2:1316:GLU:HB2	2.28	0.68
25:X2:776:PHE:HE2	26:Y2:1369:PHE:HD1	1.41	0.68
26:Y2:1345:LEU:HD21	26:Y2:1348:LYS:NZ	2.03	0.68
27:Z1:420:ILE:HD12	27:Z1:424:PRO:HD3	1.76	0.68
27:Z1:426:LEU:CD2	27:Z1:439:LEU:HD23	2.24	0.68
29:b1:77:VAL:HG21	29:b1:79:PHE:HE1	1.57	0.68
1:A2:1332:ARG:HG2	4:D1:905:SER:HB2	1.74	0.68
1:A3:1333:ARG:CA	4:D3:887:ALA:HB2	2.23	0.68
9:I2:922:ASP:OD1	15:O3:186:PHE:O	2.11	0.68
9:I2:1051:LYS:HD3	14:N3:289:PHE:HB2	1.76	0.68
9:I2:1099:ARG:CA	15:O3:268:GLY:O	2.42	0.68
17:Q1:899:ALA:O	17:Q1:902:THR:HG22	1.94	0.68
17:Q2:89:TYR:HD2	17:Q2:90:ILE:CG2	2.07	0.68
17:Q2:718:ILE:HG22	17:Q2:722:PHE:HE1	1.58	0.68
17:Q2:806:GLU:O	17:Q2:809:LYS:HD3	1.93	0.68
17:Q2:922:LEU:CG	19:R2:688:LEU:HB3	2.21	0.68
18:R1:409:LYS:NZ	18:R1:448:ILE:HB	2.08	0.68
20:S2:367:PHE:O	20:S2:369:GLY:N	2.26	0.68
25:X2:773:SER:HB2	25:X2:797:LEU:HD21	1.75	0.68
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CB	2.36	0.68
26:Y1:1410:GLN:N	27:Z1:711:LYS:NZ	2.42	0.68
26:Y2:1123:GLN:NE2	29:b1:37:LEU:HD21	2.09	0.68
26:Y2:1235:MET:O	26:Y2:1239:PHE:CE2	2.41	0.68
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:C	2.18	0.68
27:Z1:12:ILE:HD13	27:Z1:54:TYR:HB3	1.76	0.68
27:Z1:179:VAL:HG22	27:Z1:206:PHE:HE2	1.53	0.68
27:Z2:186:GLU:HG2	27:Z2:302:ILE:O	1.94	0.68
27:Z2:252:GLN:HA	27:Z2:335:MET:HE3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:416:ASP:HB3	27:Z2:569:LYS:CE	2.17	0.68
29:b1:46:LYS:CE	29:b1:59:VAL:HG22	2.24	0.68
29:b2:16:ILE:CG1	29:b2:21:LYS:CE	2.70	0.68
1:A2:1332:ARG:CG	4:D1:905:SER:CB	2.72	0.68
1:A4:520:GLU:HG2	4:D3:1017:THR:HG23	0.70	0.68
6:F1:1807:GLU:O	14:N2:411:GLN:OE1	2.12	0.68
9:I1:914:ASN:HD22	13:M1:537:LEU:C	2.00	0.68
9:I2:911:PRO:HB2	15:O3:197:ARG:HG2	1.76	0.68
9:I2:964:SER:HB2	16:P3:152:LYS:CB	2.24	0.68
9:I2:1030:ARG:CD	13:M3:608:LYS:HB3	2.03	0.68
17:Q1:276:LEU:CB	17:Q1:280:THR:HG23	2.22	0.68
17:Q1:283:VAL:HG21	17:Q1:297:LEU:HD11	1.74	0.68
17:Q1:444:GLU:OE1	17:Q1:508:ASN:CB	2.39	0.68
17:Q1:614:TRP:O	17:Q1:617:THR:HG22	1.94	0.68
17:Q1:615:GLU:HB2	17:Q1:645:ILE:HG12	1.75	0.68
17:Q1:835:PHE:CE1	17:Q1:838:GLU:HG2	2.29	0.68
17:Q1:1016:PHE:HZ	17:Q1:1070:LEU:HD21	1.59	0.68
17:Q2:836:PHE:O	17:Q2:839:PHE:HB3	1.93	0.68
25:X1:665:TRP:CD2	25:X1:669:LEU:HD11	2.29	0.68
25:X1:676:ILE:CD1	26:Y1:1274:ASN:OD1	2.42	0.68
25:X1:714:PHE:CE2	26:Y1:1316:GLU:HB2	2.28	0.68
25:X1:744:ALA:HB1	27:Z1:631:PHE:HE1	1.58	0.68
26:Y1:1456:LEU:N	26:Y1:1456:LEU:CA	2.57	0.68
26:Y2:1122:ILE:HG12	29:b2:67:SER:OG	1.92	0.68
26:Y2:1298:TYR:CD2	27:Z2:595:GLN:NE2	2.61	0.68
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:C	2.18	0.68
27:Z1:184:ASP:OD1	27:Z1:184:ASP:O	2.12	0.68
27:Z1:213:PRO:CD	27:Z1:216:LEU:HD23	2.19	0.68
27:Z2:216:LEU:HD21	27:Z2:272:ILE:HD13	1.67	0.68
29:b2:46:LYS:HG3	29:b2:57:TRP:O	1.93	0.68
1:A2:1274:ASP:HA	1:A1:727:ASN:ND2	2.08	0.67
7:G1:254:ASN:HD21	15:O2:250:LEU:HB2	1.58	0.67
9:I1:976:ARG:O	15:O1:177:HIS:CB	2.42	0.67
9:I1:1417:THR:N	14:N1:414:ALA:O	2.27	0.67
17:Q1:382:ARG:HA	17:Q1:512:ILE:HG12	1.76	0.67
17:Q2:390:ILE:HG13	17:Q2:391:THR:N	2.08	0.67
17:Q2:546:ILE:HG12	17:Q2:552:THR:OG1	1.93	0.67
17:Q2:835:PHE:CE1	17:Q2:838:GLU:HG2	2.30	0.67
17:Q2:886:ALA:O	17:Q2:890:GLN:HG2	1.93	0.67
17:Q2:899:ALA:O	17:Q2:902:THR:HG22	1.94	0.67
22:U1:291:ASN:O	25:X1:805:ARG:CZ	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U2:220:TRP:HA	22:U2:231:ILE:HG22	1.76	0.67
25:X1:637:LEU:N	25:X1:637:LEU:C	2.52	0.67
27:Z1:179:VAL:HG11	27:Z1:198:ASN:HD21	1.60	0.67
27:Z1:326:LEU:HB2	27:Z1:352:GLU:OE2	1.94	0.67
27:Z1:328:PHE:CD2	27:Z1:349:VAL:HB	2.29	0.67
27:Z2:326:LEU:HB2	27:Z2:352:GLU:OE2	1.94	0.67
27:Z2:328:PHE:CD2	27:Z2:349:VAL:HB	2.29	0.67
27:Z2:420:ILE:HD12	27:Z2:424:PRO:HD3	1.76	0.67
1:A1:827:ILE:CD1	1:A1:849:SER:OG	2.41	0.67
6:F1:134:ASP:HB3	9:I1:1388:GLU:OE1	1.94	0.67
6:F2:137:ASN:O	9:I2:1391:THR:HG21	1.94	0.67
9:I1:910:LYS:CA	13:M1:548:LEU:HD13	2.22	0.67
9:I1:1255:HIS:NE2	15:O1:254:ARG:CG	2.57	0.67
9:I2:888:GLU:HB3	13:M3:591:ASP:O	1.94	0.67
9:I2:1099:ARG:HH12	13:M3:609:GLY:CA	2.07	0.67
17:Q1:527:ILE:H	17:Q1:527:ILE:HD13	1.57	0.67
17:Q2:272:ASN:HD22	17:Q2:272:ASN:H	1.41	0.67
17:Q2:426:ILE:HD12	17:Q2:443:TRP:HH2	1.57	0.67
17:Q2:600:PHE:CZ	17:Q2:675:LEU:HD13	2.30	0.67
17:Q2:647:LYS:HA	17:Q2:647:LYS:HE3	1.75	0.67
17:Q2:849:GLU:O	17:Q2:852:ILE:HG22	1.94	0.67
17:Q2:928:LYS:HE2	19:R2:695:ALA:HA	1.75	0.67
22:U1:220:TRP:HA	22:U1:231:ILE:HG22	1.76	0.67
25:X1:742:GLN:NE2	25:X1:743:GLN:CG	2.57	0.67
26:Y1:1270:LEU:HD23	27:Z1:564:LEU:HD21	1.72	0.67
26:Y1:1277:LYS:CE	27:Z1:571:ILE:CG1	2.61	0.67
26:Y2:1399:ILE:HD13	27:Z2:697:CYS:HB3	1.75	0.67
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:HA	2.06	0.67
27:Z2:177:ALA:O	27:Z2:178:ARG:HG2	1.94	0.67
27:Z2:252:GLN:OE1	27:Z2:334:SER:CB	2.41	0.67
27:Z2:383:GLN:HG3	27:Z2:417:ILE:HG13	1.74	0.67
6:F1:1264:ARG:O	15:O2:251:ILE:O	2.12	0.67
9:I1:918:SER:HA	15:O1:194:GLU:N	2.09	0.67
9:I2:1305:LEU:C	15:O3:264:ILE:CD1	2.67	0.67
17:Q1:506:LYS:CE	17:Q1:538:ILE:HD11	2.24	0.67
17:Q1:542:ASN:ND2	17:Q1:564:PHE:HB2	2.08	0.67
17:Q1:827:THR:CG2	17:Q1:830:SER:HB2	2.24	0.67
17:Q2:111:HIS:CD2	17:Q2:514:PHE:HB2	2.29	0.67
17:Q2:171:LYS:HD2	17:Q2:172:ALA:N	2.10	0.67
17:Q2:557:LEU:O	17:Q2:560:ARG:HG2	1.94	0.67
17:Q2:743:LEU:O	17:Q2:746:VAL:HG12	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:922:LEU:HD11	19:R2:688:LEU:C	2.17	0.67
17:Q2:1021:LEU:O	17:Q2:1025:ASP:HB2	1.95	0.67
19:R2:617:ILE:HG13	19:R2:670:LYS:CG	2.24	0.67
22:U1:208:LEU:CD2	27:Z1:660:SER:OG	2.41	0.67
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:HA	2.05	0.67
27:Z1:26:ILE:N	27:Z1:440:MET:HE2	2.07	0.67
27:Z1:128:LYS:HE3	27:Z1:147:GLU:HB3	1.75	0.67
27:Z1:227:LEU:HD21	27:Z1:256:VAL:CG1	1.85	0.67
27:Z1:263:TRP:CZ2	27:Z1:268:GLY:HA2	2.30	0.67
27:Z1:531:ILE:HG23	27:Z2:544:THR:CG2	2.24	0.67
27:Z2:208:PHE:CE1	27:Z2:279:ALA:HB3	2.28	0.67
9:I1:918:SER:N	15:O1:193:ALA:N	2.42	0.67
9:I2:922:ASP:OD1	15:O3:186:PHE:CB	2.42	0.67
9:I2:966:TRP:CA	15:O3:178:ASP:OD1	2.42	0.67
9:I2:1026:TYR:CZ	13:M3:609:GLY:C	2.72	0.67
9:I2:1099:ARG:O	15:O3:272:SER:CA	2.42	0.67
9:I2:1255:HIS:CE1	14:N3:404:GLU:O	2.47	0.67
13:M3:476:THR:HG21	14:N4:323:ARG:HD2	1.76	0.67
17:Q1:973:LYS:C	17:Q1:973:LYS:HD2	2.19	0.67
17:Q1:999:LEU:HD13	17:Q1:1003:VAL:HG13	1.76	0.67
17:Q1:1000:SER:O	17:Q1:1003:VAL:HG22	1.94	0.67
17:Q2:594:LEU:HD23	17:Q2:639:PRO:CD	2.19	0.67
17:Q2:756:PHE:HZ	17:Q2:760:ILE:HD12	1.57	0.67
17:Q2:1078:LEU:HD21	17:Q2:1155:VAL:CG1	2.16	0.67
18:R1:617:ILE:HG13	18:R1:670:LYS:CG	2.24	0.67
20:S1:367:PHE:O	20:S1:369:GLY:N	2.26	0.67
22:U1:241:ARG:CG	27:Z1:656:SER:HB2	2.23	0.67
25:X1:704:GLN:CD	27:Z1:598:LEU:HD12	2.19	0.67
25:X1:821:ILE:CG2	26:Y1:1409:LEU:HD22	2.10	0.67
26:Y1:1122:ILE:CD1	29:b1:67:SER:OG	2.42	0.67
26:Y2:1230:GLU:HG2	26:Y2:1233:ARG:HH21	0.59	0.67
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:HB2	0.58	0.67
27:Z1:708:PHE:O	27:Z1:712:THR:HG23	1.94	0.67
27:Z2:126:SER:C	27:Z2:147:GLU:OE2	2.37	0.67
27:Z2:263:TRP:CZ2	27:Z2:268:GLY:HA2	2.30	0.67
27:Z2:424:PRO:CB	27:Z2:439:LEU:HD21	2.25	0.67
29:b2:38:GLU:OE2	29:b2:62:GLY:CA	2.21	0.67
1:A2:873:PRO:HB3	4:D3:535:ALA:HB1	1.76	0.67
6:F1:139:GLN:NE2	9:I1:1340:LEU:HD13	2.03	0.67
9:I1:912:VAL:HB	13:M1:542:ASP:OD1	1.93	0.67
9:I1:1311:LEU:HD21	15:O1:266:GLN:HB2	0.69	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:754:ARG:HH21	13:M3:573:ARG:HH12	1.41	0.67
9:I2:1109:LEU:HB3	15:O3:284:LYS:HZ3	1.54	0.67
17:Q1:110:ILE:HD12	17:Q1:474:VAL:HG21	1.76	0.67
17:Q1:515:ASN:OD1	17:Q1:516:LEU:HD23	1.95	0.67
17:Q2:934:VAL:HG11	17:Q2:936:LYS:HG3	1.76	0.67
22:U1:209:PRO:HD3	27:Z1:663:THR:H	1.57	0.67
25:X1:694:ASP:OD2	27:Z1:580:LYS:NZ	2.17	0.67
25:X2:643:LYS:O	25:X2:647:GLN:HG3	1.95	0.67
25:X2:684:VAL:O	27:Z2:447:PHE:CD1	2.46	0.67
25:X2:695:GLN:C	27:Z2:48:VAL:CG1	2.67	0.67
26:Y2:1333:ASP:OD1	27:Z1:92:GLU:O	2.11	0.67
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:H	1.35	0.67
26:Y2:1369:PHE:CE2	27:Z2:683:LEU:HD21	2.27	0.67
27:Z1:68:THR:O	27:Z1:84:ASN:ND2	2.28	0.67
29:b1:68:TYR:CE2	29:b2:46:LYS:CD	2.66	0.67
1:A2:1328:ARG:HH22	4:D1:898:ASP:CB	2.02	0.67
6:F1:159:ALA:O	9:I1:1335:LYS:CE	2.43	0.67
9:I1:908:ARG:NE	13:M1:552:TYR:HA	1.98	0.67
9:I2:917:TYR:HE2	15:O3:190:ARG:HH11	0.82	0.67
17:Q1:390:ILE:HG13	17:Q1:391:THR:N	2.08	0.67
17:Q1:600:PHE:CZ	17:Q1:675:LEU:HD13	2.29	0.67
17:Q1:836:PHE:O	17:Q1:839:PHE:HB3	1.93	0.67
17:Q1:925:ASN:O	17:Q1:929:LEU:HD13	1.94	0.67
17:Q2:235:ASN:HB2	17:Q2:237:MET:O	1.94	0.67
17:Q2:858:ASN:ND2	19:R2:682:LYS:HE3	2.09	0.67
17:Q2:973:LYS:C	17:Q2:973:LYS:HD2	2.20	0.67
17:Q2:1000:SER:O	17:Q2:1003:VAL:HG22	1.94	0.67
18:R1:619:LYS:HE3	18:R1:623:PHE:CE2	2.25	0.67
22:U1:245:ILE:HG13	27:Z1:657:TYR:CZ	2.29	0.67
25:X2:710:PHE:CZ	26:Y2:1313:ALA:HB2	2.29	0.67
25:X2:811:SER:HG	27:Z2:701:LEU:CD1	1.85	0.67
26:Y2:1365:ILE:CG2	26:Y2:1386:ALA:HB3	2.25	0.67
26:Y2:1410:GLN:H	27:Z2:711:LYS:CE	2.06	0.67
27:Z1:119:GLU:CA	27:Z1:120:GLU:CB	2.68	0.67
27:Z1:135:LYS:HZ1	27:Z1:218:LEU:CG	2.07	0.67
27:Z1:280:LYS:HE2	27:Z1:338:ASP:HA	1.75	0.67
27:Z2:223:LEU:CD1	27:Z2:263:TRP:CG	2.78	0.67
28:a1:989:LYS:O	28:a1:991:PRO:HD3	1.95	0.67
29:b1:56:THR:O	29:b1:91:THR:N	2.26	0.67
1:A2:1091:VAL:CA	4:D1:1104:GLU:HG2	2.25	0.67
1:A3:1220:PRO:O	1:A4:599:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:CD	1:A4:648:TYR:N	2.52	0.67
1:A3:1271:ILE:HG13	1:A4:730:THR:CG2	2.18	0.67
1:A4:127:HIS:CD2	4:D3:1006:ASP:C	2.54	0.67
6:F1:139:GLN:NE2	9:I1:1336:MET:CG	2.57	0.67
6:F1:267:GLU:CG	11:K1:638:PRO:HD2	2.25	0.67
9:I1:357:ASP:OD1	9:I1:360:ARG:NH2	2.28	0.67
9:I1:1106:LYS:HB3	13:M1:613:ASP:HB3	1.75	0.67
9:I2:1049:LEU:C	16:P3:142:LEU:H	1.98	0.67
17:Q1:699:MET:HB3	17:Q1:709:PHE:CE2	2.30	0.67
17:Q2:516:LEU:HD13	17:Q2:570:PHE:HE1	1.60	0.67
17:Q2:827:THR:CG2	17:Q2:830:SER:HB2	2.24	0.67
17:Q2:999:LEU:HD13	17:Q2:1003:VAL:HG13	1.76	0.67
17:Q2:1078:LEU:CD2	17:Q2:1155:VAL:HG13	2.17	0.67
18:R1:409:LYS:NZ	18:R1:448:ILE:CB	2.52	0.67
19:R2:711:LEU:HG	19:R2:714:TYR:HE2	1.59	0.67
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:HB2	0.58	0.67
26:Y1:1399:ILE:HD13	27:Z1:697:CYS:HB3	1.75	0.67
26:Y2:1310:VAL:CG1	26:Y2:1314:LYS:HE3	2.25	0.67
27:Z1:26:ILE:HG21	27:Z1:440:MET:HG3	1.74	0.67
27:Z1:179:VAL:HG21	27:Z1:206:PHE:HD2	1.58	0.67
27:Z1:252:GLN:HA	27:Z1:335:MET:HE3	1.76	0.67
27:Z2:401:ASP:O	27:Z2:404:PRO:HD2	1.94	0.67
1:A3:1327:VAL:HB	4:D3:873:GLN:CA	2.24	0.67
6:F1:1053:LEU:HD23	9:I1:1388:GLU:CG	2.25	0.67
6:F1:1053:LEU:CG	9:I1:1388:GLU:HG2	2.24	0.67
9:I1:961:ARG:HD2	15:O1:186:PHE:O	1.95	0.67
17:Q1:139:ILE:HB	17:Q1:211:MET:CE	2.22	0.67
17:Q1:235:ASN:HB2	17:Q1:237:MET:O	1.95	0.67
17:Q1:630:THR:HG23	17:Q1:631:THR:H	1.60	0.67
17:Q1:742:LEU:HA	17:Q1:745:ILE:CD1	2.13	0.67
17:Q2:171:LYS:NZ	17:Q2:173:ILE:HB	2.09	0.67
17:Q2:629:LEU:HD21	17:Q2:632:LYS:HB2	1.77	0.67
19:R2:612:ASN:O	19:R2:615:THR:HG22	1.94	0.67
22:U1:191:ALA:C	27:Z1:664:ARG:HH12	1.93	0.67
25:X2:744:ALA:HB1	27:Z2:631:PHE:HE1	1.58	0.67
25:X2:791:ILE:CA	25:X2:794:ILE:HG12	2.25	0.67
27:Z1:326:LEU:CB	27:Z1:352:GLU:OE2	2.43	0.67
27:Z1:329:LYS:HE3	27:Z1:333:MET:CG	2.25	0.67
27:Z2:131:LEU:HD12	27:Z2:187:PHE:CZ	2.30	0.67
27:Z2:179:VAL:HG11	27:Z2:198:ASN:ND2	2.08	0.67
27:Z2:317:VAL:HG23	27:Z2:319:PHE:CE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:a2:1042:LYS:O	28:a2:1045:GLU:HB2	1.95	0.67
29:b1:27:ILE:CG2	29:b1:45:VAL:HG12	2.24	0.67
29:b2:7:SER:C	29:b2:7:SER:N	2.53	0.67
29:b2:72:GLU:CB	29:b2:75:HIS:CD2	2.77	0.67
1:A3:937:ASP:OD2	9:I2:815:ILE:CG2	2.42	0.67
1:A3:1396:GLY:O	4:D3:869:THR:OG1	2.13	0.67
9:I1:900:ARG:HG3	13:M1:577:LEU:C	2.18	0.67
9:I1:918:SER:O	15:O1:190:ARG:HG2	1.93	0.67
9:I1:978:LYS:HZ1	15:O1:184:ARG:HE	1.41	0.67
9:I2:976:ARG:NE	15:O3:174:LEU:CD1	2.50	0.67
9:I2:1029:LEU:CG	13:M3:613:ASP:CG	2.59	0.67
9:I2:1103:LEU:HD22	13:M3:614:ASP:HB2	1.77	0.67
17:Q1:527:ILE:HD11	17:Q1:530:ASP:HB3	1.77	0.67
17:Q2:351:ILE:HB	17:Q2:362:ILE:HD11	1.77	0.67
17:Q2:506:LYS:CE	17:Q2:538:ILE:HD11	2.24	0.67
17:Q2:740:GLU:CG	17:Q2:744:LYS:HE2	2.25	0.67
17:Q2:868:HIS:O	17:Q2:872:ILE:HG13	1.92	0.67
18:R1:624:SER:HB2	18:R1:667:LEU:HD23	1.75	0.67
18:R1:701:ILE:CG2	18:R1:705:PHE:HE1	2.08	0.67
19:R2:617:ILE:HG13	19:R2:670:LYS:CD	2.25	0.67
24:W1:335:VAL:HG13	24:W1:352:ILE:HB	1.77	0.67
25:X1:721:LEU:HD22	26:Y1:1319:PHE:CD2	2.28	0.67
25:X1:725:VAL:HG21	27:Z1:612:ILE:CG2	2.22	0.67
25:X2:650:GLU:O	25:X2:654:HIS:ND1	2.27	0.67
25:X2:658:TYR:CE2	25:X2:662:ILE:CD1	2.78	0.67
26:Y2:1337:HIS:CD2	27:Z1:111:ILE:HD12	2.30	0.67
27:Z1:319:PHE:HZ	27:Z1:325:ILE:HD12	1.59	0.67
27:Z2:326:LEU:CB	27:Z2:352:GLU:OE2	2.43	0.67
27:Z2:426:LEU:CD2	27:Z2:439:LEU:HD23	2.24	0.67
29:b2:69:VAL:HG21	29:b2:76:PHE:CZ	2.29	0.67
6:F2:1808:VAL:O	6:F2:1833:ARG:NH1	2.28	0.67
9:I2:909:ARG:HB3	13:M3:580:LYS:NZ	2.08	0.67
9:I2:915:ALA:O	16:P3:158:THR:HG22	1.93	0.67
9:I2:1254:VAL:N	14:N3:409:ALA:N	2.39	0.67
17:Q1:171:LYS:HD2	17:Q1:172:ALA:N	2.10	0.67
17:Q1:533:LEU:O	17:Q1:533:LEU:HD23	1.94	0.67
17:Q1:756:PHE:HZ	17:Q1:760:ILE:HD12	1.58	0.67
17:Q1:849:GLU:O	17:Q1:852:ILE:HG22	1.95	0.67
17:Q1:934:VAL:HG11	17:Q1:936:LYS:HG3	1.76	0.67
17:Q1:938:ASN:ND2	17:Q1:939:LEU:HD12	2.10	0.67
17:Q1:960:ILE:HA	17:Q1:963:LYS:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:59:LYS:O	17:Q2:70:LYS:HG3	1.94	0.67
17:Q2:630:THR:HG23	17:Q2:631:THR:H	1.60	0.67
17:Q2:703:THR:HA	17:Q2:707:PRO:CB	2.25	0.67
18:R1:438:GLU:HG3	18:R1:439:SER:N	2.10	0.67
18:R1:664:LEU:HD13	18:R1:690:PHE:HE1	1.59	0.67
25:X1:700:ILE:HD12	26:Y1:1298:TYR:CE1	2.26	0.67
26:Y2:1449:ILE:HG23	26:Y2:1453:PHE:CZ	2.30	0.67
27:Z1:383:GLN:CD	27:Z1:417:ILE:HG21	2.18	0.67
27:Z1:420:ILE:CD1	27:Z1:424:PRO:HD3	2.25	0.67
27:Z2:179:VAL:HG11	27:Z2:198:ASN:HD21	1.59	0.67
29:b2:59:VAL:O	29:b2:59:VAL:CG2	2.34	0.67
1:A3:1330:VAL:CG2	4:D3:880:ASP:OD2	2.42	0.66
1:A4:442:ARG:NH2	4:D3:1022:PRO:N	2.40	0.66
7:G1:247:ASP:N	15:O2:247:TRP:CH2	2.63	0.66
9:I1:981:VAL:CG1	15:O1:176:ARG:CG	2.73	0.66
9:I2:357:ASP:OD1	9:I2:360:ARG:NH2	2.28	0.66
9:I2:961:ARG:HD2	16:P3:155:GLU:C	2.20	0.66
17:Q1:59:LYS:O	17:Q1:70:LYS:HG3	1.94	0.66
17:Q2:509:ALA:HA	17:Q2:516:LEU:CD1	2.12	0.66
17:Q2:515:ASN:OD1	17:Q2:516:LEU:HD23	1.95	0.66
17:Q2:520:ILE:HD13	17:Q2:574:ASN:O	1.94	0.66
17:Q2:938:ASN:ND2	17:Q2:939:LEU:HD12	2.10	0.66
19:R2:531:ILE:HG23	19:R2:580:PHE:HE1	1.58	0.66
19:R2:581:LEU:HD12	19:R2:584:ILE:CD1	2.23	0.66
22:U1:161:PRO:HB2	22:U1:164:HIS:CD2	2.30	0.66
25:X1:643:LYS:O	25:X1:647:GLN:HG3	1.94	0.66
26:Y1:1122:ILE:HD13	29:b1:87:LEU:HD13	1.73	0.66
26:Y2:1368:LEU:O	26:Y2:1372:LYS:N	2.28	0.66
27:Z1:208:PHE:CE1	27:Z1:279:ALA:HB3	2.28	0.66
27:Z1:223:LEU:CD1	27:Z1:263:TRP:CG	2.78	0.66
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CD1	2.26	0.66
27:Z1:288:ASN:HD22	27:Z1:289:PRO:N	1.92	0.66
27:Z2:179:VAL:HG21	27:Z2:206:PHE:HD2	1.58	0.66
27:Z2:241:THR:CG2	27:Z2:246:LYS:HE2	2.25	0.66
27:Z2:297:TYR:CG	27:Z2:321:ASP:OD2	2.44	0.66
28:a1:1042:LYS:O	28:a1:1045:GLU:HB2	1.95	0.66
29:b1:64:ASN:O	29:b2:64:ASN:O	2.13	0.66
6:F1:138:ILE:HG12	9:I1:1388:GLU:C	2.19	0.66
9:I1:843:GLU:HG2	13:M1:538:THR:OG1	1.95	0.66
9:I2:899:LEU:HD13	13:M3:582:THR:C	2.20	0.66
9:I2:900:ARG:NE	15:O3:235:ASN:CB	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:670:THR:C	17:Q1:743:LEU:HD11	2.21	0.66
17:Q1:1021:LEU:O	17:Q1:1025:ASP:HB2	1.95	0.66
17:Q1:1065:VAL:HA	17:Q1:1070:LEU:CD2	2.25	0.66
17:Q2:527:ILE:HD11	17:Q2:530:ASP:HB3	1.77	0.66
17:Q2:699:MET:HB3	17:Q2:709:PHE:CE2	2.30	0.66
18:R1:612:ASN:O	18:R1:615:THR:HG22	1.94	0.66
26:Y1:1335:SER:HB2	26:Y1:1339:PHE:CE1	2.29	0.66
26:Y2:1123:GLN:HG3	29:b1:39:ARG:HD2	1.77	0.66
26:Y2:1340:ARG:HH21	27:Z1:157:LEU:CD2	1.87	0.66
26:Y2:1435:LYS:O	26:Y2:1439:VAL:HG23	1.95	0.66
27:Z1:424:PRO:CB	27:Z1:439:LEU:HD21	2.24	0.66
27:Z2:288:ASN:HD22	27:Z2:289:PRO:N	1.92	0.66
1:A2:1277:TRP:CD1	1:A1:642:ARG:NH1	2.64	0.66
1:A3:1224:PRO:CD	1:A4:648:TYR:CE1	2.73	0.66
1:A3:1332:ARG:NE	4:D3:899:THR:CG2	2.53	0.66
7:G2:250:THR:H	15:O4:254:ARG:CD	1.98	0.66
9:I1:909:ARG:HE	15:O1:205:ARG:HH22	1.37	0.66
9:I2:961:ARG:CG	16:P3:155:GLU:C	2.68	0.66
9:I2:1103:LEU:HG	13:M3:611:LYS:HE3	1.76	0.66
9:I2:1305:LEU:HD22	15:O3:264:ILE:HG12	0.67	0.66
10:J1:251:TYR:CB	15:O1:273:ASP:OD1	2.43	0.66
13:M3:469:GLU:CD	13:M4:536:GLU:CD	2.61	0.66
17:Q1:557:LEU:O	17:Q1:560:ARG:HG2	1.95	0.66
17:Q1:666:LYS:O	17:Q1:669:VAL:HG22	1.96	0.66
17:Q2:615:GLU:HB2	17:Q2:645:ILE:HG12	1.75	0.66
17:Q2:700:GLU:CD	17:Q2:758:ILE:HA	2.21	0.66
17:Q2:715:LEU:HD21	17:Q2:751:TYR:CE1	2.28	0.66
18:R1:531:ILE:HG23	18:R1:580:PHE:HE1	1.58	0.66
19:R2:614:PRO:CA	19:R2:617:ILE:HG22	2.23	0.66
24:W2:335:VAL:HG13	24:W2:352:ILE:HB	1.77	0.66
25:X1:752:ASP:OD1	26:Y1:1345:LEU:HD12	1.95	0.66
25:X1:755:LEU:HD13	26:Y1:1349:LEU:CG	2.25	0.66
25:X1:807:LEU:HD21	27:Z1:698:ASN:CB	2.08	0.66
25:X2:655:PHE:CZ	27:Z2:545:LEU:C	2.74	0.66
25:X2:707:LEU:HD11	26:Y2:1306:ILE:HG12	0.76	0.66
26:Y2:1295:VAL:CA	27:Z2:588:TRP:CH2	2.68	0.66
26:Y2:1321:MET:HB3	27:Z1:51:ASP:CB	2.25	0.66
26:Y2:1345:LEU:CD2	26:Y2:1348:LYS:HZ3	1.91	0.66
27:Z1:182:ILE:HD13	27:Z1:198:ASN:OD1	1.96	0.66
27:Z1:363:LEU:CD1	27:Z1:373:LEU:CD2	2.32	0.66
27:Z1:709:THR:O	27:Z1:709:THR:HG22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:608:LYS:HA	27:Z2:611:GLN:HG2	1.75	0.66
1:A2:1284:ASN:HD22	1:A1:635:ARG:CB	2.09	0.66
7:G1:256:GLN:H	15:O2:245:GLU:HB3	1.60	0.66
9:I1:1584:LEU:HD21	10:J1:275:PHE:CD1	2.30	0.66
9:I2:888:GLU:N	13:M3:594:LYS:CE	2.56	0.66
9:I2:1109:LEU:CB	15:O3:284:LYS:HZ3	2.03	0.66
9:I2:1308:THR:CG2	14:N3:414:ALA:HA	2.25	0.66
17:Q1:647:LYS:HA	17:Q1:647:LYS:HE3	1.76	0.66
17:Q2:443:TRP:CZ3	17:Q2:479:VAL:HG11	2.30	0.66
17:Q2:666:LYS:O	17:Q2:669:VAL:HG22	1.96	0.66
17:Q2:670:THR:C	17:Q2:743:LEU:HD11	2.20	0.66
18:R1:433:ALA:CB	18:R1:453:GLU:HB2	2.26	0.66
18:R1:435:PHE:CA	18:R1:448:ILE:HG12	2.25	0.66
18:R1:581:LEU:HD12	18:R1:584:ILE:CD1	2.23	0.66
18:R1:721:THR:HA	18:R1:724:LEU:CD1	2.25	0.66
20:S1:209:PRO:HB3	20:S1:532:LYS:HB2	1.78	0.66
20:S1:571:ALA:CB	21:T1:86:ASN:CG	2.67	0.66
22:U1:243:PHE:HE2	27:Z1:660:SER:N	1.89	0.66
25:X2:662:ILE:HD12	27:Z2:549:ILE:HG23	1.69	0.66
25:X2:790:ASN:CG	27:Z2:680:TRP:HH2	1.80	0.66
26:Y2:1362:LEU:CD2	26:Y2:1387:LYS:CD	2.70	0.66
27:Z1:15:ALA:HB1	27:Z1:16:SER:N	2.09	0.66
27:Z1:125:SER:O	27:Z1:125:SER:OG	2.13	0.66
27:Z1:326:LEU:HD23	27:Z1:410:PHE:HZ	1.61	0.66
27:Z1:358:ARG:CZ	27:Z1:382:GLN:HE22	2.02	0.66
27:Z2:26:ILE:O	27:Z2:26:ILE:HG23	1.95	0.66
27:Z2:280:LYS:HE3	27:Z2:340:ASP:OD1	1.95	0.66
29:b1:69:VAL:CB	29:b2:58:HIS:ND1	2.55	0.66
1:A2:1277:TRP:HB2	1:A1:642:ARG:NH2	2.08	0.66
1:A2:1301:ASP:OD2	1:A2:1361:ARG:NH1	2.29	0.66
6:F1:1808:VAL:O	6:F1:1833:ARG:NH1	2.28	0.66
9:I1:966:TRP:HB2	15:O1:179:LEU:N	2.10	0.66
9:I1:1050:SER:OG	14:N1:293:LYS:O	2.02	0.66
9:I2:896:PRO:HD3	13:M3:588:MET:CA	2.25	0.66
9:I2:916:ALA:CB	15:O3:193:ALA:N	2.58	0.66
9:I2:1103:LEU:CD2	13:M3:614:ASP:OD1	2.37	0.66
9:I2:1256:TYR:O	15:O3:256:TYR:CE1	2.39	0.66
17:Q1:520:ILE:HD13	17:Q1:574:ASN:O	1.94	0.66
17:Q1:629:LEU:HD21	17:Q1:632:LYS:HB2	1.77	0.66
17:Q1:657:LEU:HD23	17:Q1:657:LEU:H	1.61	0.66
17:Q1:1091:THR:HG23	17:Q1:1094:TYR:N	2.01	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:501:ALA:O	17:Q2:504:PHE:HB3	1.95	0.66
19:R2:533:LEU:HD23	19:R2:549:PHE:CD1	2.31	0.66
19:R2:721:THR:HA	19:R2:724:LEU:CD1	2.25	0.66
22:U2:161:PRO:HB2	22:U2:164:HIS:CD2	2.30	0.66
25:X1:668:VAL:CG1	26:Y1:1271:ASN:HD21	2.07	0.66
25:X1:751:LEU:CD1	27:Z1:638:ILE:HG12	2.19	0.66
25:X1:811:SER:O	25:X1:815:GLU:HG3	1.96	0.66
26:Y1:1298:TYR:H	27:Z1:588:TRP:HH2	1.42	0.66
26:Y1:1449:ILE:HG23	26:Y1:1453:PHE:CZ	2.30	0.66
26:Y2:1334:LEU:CD2	27:Z1:108:ALA:N	2.49	0.66
26:Y2:1336:THR:O	26:Y2:1340:ARG:HG3	1.96	0.66
26:Y2:1370:THR:HG22	27:Z2:662:LEU:CD2	2.14	0.66
27:Z1:280:LYS:HE3	27:Z1:340:ASP:OD1	1.96	0.66
27:Z1:389:TRP:HZ3	27:Z1:393:LEU:HD12	1.50	0.66
27:Z1:634:ILE:O	27:Z1:638:ILE:HG13	1.95	0.66
27:Z2:329:LYS:HE3	27:Z2:333:MET:CG	2.25	0.66
29:b2:55:ASN:HB3	29:b2:56:THR:HG23	1.76	0.66
1:A2:1201:ARG:CZ	1:A1:644:ALA:O	2.43	0.66
1:A4:928:GLY:HA2	4:D3:807:GLU:OE1	1.95	0.66
6:F1:158:PRO:C	9:I1:1339:LEU:H	2.04	0.66
7:G1:253:SER:N	15:O2:243:LEU:CD2	2.58	0.66
9:I1:1038:ILE:HD13	15:O1:179:LEU:CD1	2.20	0.66
9:I2:896:PRO:HG3	13:M3:588:MET:CB	2.18	0.66
9:I2:899:LEU:N	13:M3:584:GLN:NE2	2.40	0.66
9:I2:911:PRO:HB2	15:O3:197:ARG:CG	2.25	0.66
9:I2:1031:ALA:C	13:M3:617:THR:HG23	2.04	0.66
17:Q1:104:LYS:HG2	17:Q1:122:VAL:HG22	1.76	0.66
17:Q1:228:ILE:HG12	17:Q1:249:ASN:HB3	1.78	0.66
17:Q2:866:GLN:HA	17:Q2:870:VAL:HG21	1.77	0.66
17:Q2:1065:VAL:HA	17:Q2:1070:LEU:CD2	2.25	0.66
22:U1:209:PRO:CD	27:Z1:661:GLU:N	2.54	0.66
22:U2:306:GLU:N	22:U2:324:ASP:OD2	2.27	0.66
25:X1:726:VAL:C	25:X1:726:VAL:HG12	2.20	0.66
25:X2:662:ILE:CD1	27:Z1:541:LYS:HZ3	2.06	0.66
25:X2:811:SER:O	25:X2:815:GLU:HG3	1.96	0.66
26:Y1:1435:LYS:HZ1	27:Z1:225:LEU:CD2	2.05	0.66
26:Y2:1298:TYR:H	27:Z2:588:TRP:HH2	1.43	0.66
26:Y2:1410:GLN:N	27:Z2:711:LYS:NZ	2.42	0.66
27:Z1:410:PHE:O	27:Z1:410:PHE:HD2	1.76	0.66
27:Z1:431:TRP:HD1	27:Z1:436:ASN:ND2	1.93	0.66
27:Z1:534:GLU:HB3	27:Z2:545:LEU:CA	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:541:LYS:CA	27:Z2:554:HIS:N	2.59	0.66
27:Z1:642:ASN:ND2	27:Z1:646:HIS:ND1	2.44	0.66
27:Z2:634:ILE:CG2	27:Z2:638:ILE:CD1	2.74	0.66
27:Z2:708:PHE:O	27:Z2:712:THR:HG23	1.94	0.66
1:A1:1301:ASP:OD2	1:A1:1361:ARG:NH1	2.29	0.66
1:A4:581:LYS:NZ	4:D3:1031:ARG:NH2	2.43	0.66
1:A4:1301:ASP:OD2	1:A4:1361:ARG:NH1	2.29	0.66
9:I1:905:ALA:H	13:M1:573:ARG:HD3	1.59	0.66
9:I1:977:ASN:HB3	15:O1:172:ALA:O	1.94	0.66
9:I1:1048:GLU:OE1	15:O1:171:ASP:HB2	1.96	0.66
9:I1:1421:ARG:NH2	9:I1:1482:ASP:OD1	2.29	0.66
9:I2:960:SER:CB	16:P3:154:ALA:HB3	2.24	0.66
17:Q1:501:ALA:O	17:Q1:504:PHE:HB3	1.95	0.66
17:Q1:516:LEU:HD13	17:Q1:570:PHE:HE1	1.60	0.66
17:Q1:866:GLN:HA	17:Q1:870:VAL:HG21	1.77	0.66
17:Q2:520:ILE:CD1	17:Q2:574:ASN:HB3	2.25	0.66
17:Q2:527:ILE:O	17:Q2:531:LEU:HD13	1.96	0.66
22:U1:288:LEU:HD11	25:X1:792:GLN:HA	1.77	0.66
25:X1:655:PHE:CZ	27:Z1:545:LEU:C	2.74	0.66
25:X2:688:HIS:CD2	27:Z2:445:LEU:HD12	2.30	0.66
26:Y1:1298:TYR:HB2	27:Z1:588:TRP:CH2	2.31	0.66
26:Y1:1336:THR:O	26:Y1:1340:ARG:HG3	1.96	0.66
27:Z1:26:ILE:O	27:Z1:26:ILE:HG23	1.96	0.66
27:Z1:189:LYS:O	27:Z1:311:GLN:NE2	2.18	0.66
27:Z1:401:ASP:O	27:Z2:262:ASN:CA	2.16	0.66
27:Z2:128:LYS:HE3	27:Z2:147:GLU:HB3	1.75	0.66
27:Z2:352:GLU:O	27:Z2:352:GLU:CG	2.41	0.66
27:Z2:642:ASN:O	27:Z2:644:PHE:N	2.18	0.66
1:A3:1301:ASP:OD2	1:A3:1361:ARG:NH1	2.29	0.66
1:A4:1027:HIS:HE1	4:D3:478:ALA:HB3	1.53	0.66
9:I1:977:ASN:HB3	15:O1:175:SER:N	2.10	0.66
9:I2:959:SER:O	16:P3:151:LYS:HE2	1.95	0.66
9:I2:1030:ARG:CB	13:M3:612:PRO:HA	2.26	0.66
9:I2:1584:LEU:HD21	10:J2:275:PHE:CD1	2.30	0.66
10:J1:252:LEU:HD13	15:O1:273:ASP:OD2	1.91	0.66
17:Q1:740:GLU:CG	17:Q1:744:LYS:HE2	2.25	0.66
17:Q1:743:LEU:O	17:Q1:746:VAL:HG12	1.95	0.66
17:Q2:228:ILE:HG12	17:Q2:249:ASN:HB3	1.78	0.66
17:Q2:929:LEU:HD11	19:R2:691:THR:O	1.96	0.66
17:Q2:1091:THR:HG23	17:Q2:1094:TYR:N	2.01	0.66
18:R1:533:LEU:HD23	18:R1:549:PHE:CD1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:242:LEU:HD22	20:S2:305:VAL:HG22	1.78	0.66
19:R2:684:ILE:HD13	19:R2:722:ALA:CA	2.22	0.66
25:X1:799:SER:OG	26:Y1:1370:THR:O	2.14	0.66
25:X2:668:VAL:CG1	26:Y2:1271:ASN:HD21	2.07	0.66
25:X2:685:MET:CE	27:Z2:13:PHE:HE2	2.05	0.66
25:X2:752:ASP:OD1	26:Y2:1345:LEU:HD12	1.95	0.66
25:X2:790:ASN:O	25:X2:794:ILE:HG23	1.96	0.66
26:Y1:1228:LEU:HD13	27:Z1:539:ILE:O	1.95	0.66
26:Y2:1122:ILE:O	26:Y2:1122:ILE:HG13	1.94	0.66
27:Z1:27:PHE:HE2	27:Z1:36:VAL:HG22	1.36	0.66
27:Z1:387:MET:HE3	27:Z1:391:SER:HB3	0.66	0.66
27:Z2:125:SER:O	27:Z2:125:SER:OG	2.14	0.66
27:Z2:420:ILE:CD1	27:Z2:424:PRO:HD3	2.25	0.66
9:I1:1050:SER:CB	14:N1:293:LYS:HA	2.23	0.66
17:Q1:272:ASN:HD22	17:Q1:272:ASN:H	1.41	0.66
17:Q1:386:PHE:HE2	17:Q1:566:ASN:CG	1.95	0.66
17:Q1:443:TRP:CZ3	17:Q1:479:VAL:HG11	2.30	0.66
17:Q1:527:ILE:O	17:Q1:531:LEU:HD13	1.96	0.66
17:Q1:756:PHE:CE2	17:Q1:760:ILE:HD12	2.31	0.66
17:Q2:960:ILE:HA	17:Q2:963:LYS:HE3	1.76	0.66
17:Q2:999:LEU:HD21	17:Q2:1021:LEU:HB3	1.77	0.66
25:X1:755:LEU:CD1	26:Y1:1349:LEU:CD1	2.73	0.66
26:Y1:1122:ILE:CD1	29:b1:87:LEU:HD13	2.25	0.66
26:Y1:1229:MET:O	26:Y1:1233:ARG:HG3	1.96	0.66
26:Y1:1358:HIS:NE2	26:Y1:1362:LEU:CD1	2.25	0.66
26:Y1:1410:GLN:CA	27:Z1:711:LYS:CE	2.71	0.66
26:Y2:1123:GLN:HE22	29:b1:37:LEU:HD21	1.61	0.66
27:Z1:116:ILE:CD1	27:Z1:125:SER:C	2.69	0.66
27:Z1:252:GLN:HB2	27:Z1:335:MET:CE	2.19	0.66
27:Z2:68:THR:O	27:Z2:84:ASN:ND2	2.28	0.66
1:A2:1204:TRP:CD1	1:A1:599:ARG:N	2.64	0.66
1:A4:1094:ILE:HG22	4:D3:675:LEU:HD21	1.74	0.66
9:I1:900:ARG:HB3	13:M1:580:LYS:CB	2.12	0.66
9:I1:924:ILE:H	15:O1:187:ASN:HD21	0.67	0.66
9:I1:1106:LYS:HD3	13:M1:613:ASP:HB3	1.78	0.66
17:Q1:960:ILE:HA	17:Q1:963:LYS:CE	2.26	0.66
17:Q1:999:LEU:HD21	17:Q1:1021:LEU:HB3	1.77	0.66
17:Q1:1009:LEU:HD12	17:Q1:1014:SER:OG	1.96	0.66
17:Q2:1034:LYS:HD2	17:Q2:1034:LYS:C	2.21	0.66
18:R1:617:ILE:HG13	18:R1:670:LYS:CD	2.25	0.66
19:R2:588:GLU:O	19:R2:591:ILE:HG22	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:619:LYS:HE3	19:R2:623:PHE:CE2	2.26	0.66
24:W1:55:GLU:HB2	24:W1:74:SER:HA	1.78	0.66
25:X2:823:LYS:HD2	27:Z1:272:ILE:CG1	2.20	0.66
26:Y1:1218:PHE:CD1	26:Y1:1222:GLU:CD	2.73	0.66
26:Y1:1230:GLU:HG2	26:Y1:1233:ARG:HH21	0.59	0.66
27:Z1:182:ILE:HA	27:Z1:198:ASN:OD1	1.95	0.66
27:Z2:126:SER:H	27:Z2:147:GLU:CD	1.95	0.66
27:Z2:153:MET:CE	27:Z2:211:PHE:CZ	2.79	0.66
27:Z2:182:ILE:HD13	27:Z2:198:ASN:OD1	1.96	0.66
27:Z2:328:PHE:CZ	27:Z2:349:VAL:CG2	2.79	0.66
1:A2:1228:TYR:OH	1:A1:642:ARG:NE	2.11	0.65
1:A3:1204:TRP:HD1	1:A4:595:GLU:CD	2.03	0.65
7:G1:253:SER:CB	13:M2:592:LEU:CD1	2.74	0.65
9:I1:904:GLU:CG	13:M1:577:LEU:HB2	2.26	0.65
9:I2:1031:ALA:CB	13:M3:621:ARG:NH2	2.58	0.65
9:I2:1049:LEU:HB2	14:N3:293:LYS:CA	1.97	0.65
9:I2:1421:ARG:NH2	9:I2:1482:ASP:OD1	2.29	0.65
10:J1:252:LEU:HD22	15:O1:269:ILE:C	2.21	0.65
17:Q1:337:HIS:CE1	17:Q1:401:ILE:HB	2.31	0.65
17:Q1:928:LYS:HE3	17:Q1:932:LEU:HD11	1.78	0.65
17:Q2:741:GLY:O	17:Q2:745:ILE:HG13	1.96	0.65
17:Q2:896:TYR:CD1	17:Q2:933:LEU:HD12	2.31	0.65
17:Q2:960:ILE:HA	17:Q2:963:LYS:CE	2.25	0.65
18:R1:588:GLU:O	18:R1:591:ILE:HG22	1.96	0.65
18:R1:614:PRO:CA	18:R1:617:ILE:HG22	2.23	0.65
22:U1:221:ALA:HB2	22:U1:312:TRP:CE2	2.31	0.65
22:U1:289:GLN:N	25:X1:798:ASN:CA	2.58	0.65
22:U2:313:ASN:HB2	22:U2:318:ILE:H	1.61	0.65
25:X1:789:GLU:OE2	27:Z1:684:ARG:HD3	1.96	0.65
25:X2:726:VAL:CA	25:X2:727:SER:N	2.59	0.65
25:X2:778:LYS:HG2	25:X2:793:LEU:C	2.21	0.65
26:Y1:1435:LYS:O	26:Y1:1439:VAL:HG23	1.96	0.65
26:Y2:1218:PHE:CD1	26:Y2:1222:GLU:CD	2.73	0.65
26:Y2:1229:MET:O	26:Y2:1233:ARG:HG3	1.96	0.65
26:Y2:1298:TYR:HB2	27:Z2:588:TRP:CH2	2.31	0.65
27:Z1:153:MET:CE	27:Z1:211:PHE:CZ	2.79	0.65
27:Z1:314:ILE:CD1	27:Z1:386:PHE:CE2	2.69	0.65
27:Z1:329:LYS:HE2	27:Z1:331:LEU:O	1.97	0.65
27:Z2:8:SER:OG	27:Z2:447:PHE:CD1	2.48	0.65
27:Z2:43:ILE:HG13	27:Z2:91:MET:SD	2.36	0.65
27:Z2:634:ILE:O	27:Z2:638:ILE:HG13	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:252:LEU:HB3	15:O4:248:SER:HB2	1.78	0.65
9:I1:839:TRP:N	15:O1:198:ARG:NH2	2.44	0.65
9:I2:1254:VAL:H	14:N3:409:ALA:C	2.04	0.65
9:I2:1308:THR:OG1	14:N3:413:VAL:HG11	1.94	0.65
17:Q1:141:THR:HG22	17:Q1:163:GLY:C	2.21	0.65
17:Q1:294:THR:CG2	17:Q1:307:LEU:HB2	2.26	0.65
17:Q1:520:ILE:CD1	17:Q1:574:ASN:HB3	2.25	0.65
17:Q1:906:ILE:HD12	17:Q1:923:HIS:CD2	2.32	0.65
17:Q1:1062:VAL:O	17:Q1:1065:VAL:HG22	1.96	0.65
17:Q2:906:ILE:HD12	17:Q2:923:HIS:CD2	2.32	0.65
25:X1:791:ILE:N	27:Z1:669:THR:C	2.53	0.65
26:Y2:1321:MET:CB	27:Z1:51:ASP:CB	2.73	0.65
27:Z1:317:VAL:HG23	27:Z1:319:PHE:CE2	2.30	0.65
27:Z2:303:ALA:HB1	27:Z2:363:LEU:HD21	1.69	0.65
1:A2:1221:ILE:HG13	1:A1:600:LYS:HE3	1.78	0.65
1:A2:1386:GLU:OE2	1:A1:728:LYS:NZ	2.28	0.65
1:A3:871:ASN:HA	4:D1:515:ASN:HB2	1.74	0.65
1:A3:1070:ASP:O	9:I2:1238:LYS:NZ	2.29	0.65
6:F1:1392:LEU:CD2	15:O2:259:ASP:OD2	2.45	0.65
9:I1:961:ARG:HD2	15:O1:186:PHE:C	2.19	0.65
9:I1:1048:GLU:CD	15:O1:170:LEU:HB2	2.20	0.65
9:I2:914:ASN:CA	15:O3:194:GLU:CB	2.61	0.65
9:I2:982:GLN:NE2	15:O3:179:LEU:HD12	2.11	0.65
9:I2:1107:SER:HB3	13:M3:615:PRO:HG3	0.67	0.65
17:Q1:291:ILE:HD13	17:Q1:311:ASN:HB2	1.77	0.65
17:Q1:703:THR:HA	17:Q1:707:PRO:CB	2.26	0.65
17:Q1:1034:LYS:HD2	17:Q1:1034:LYS:C	2.21	0.65
17:Q2:557:LEU:HD21	17:Q2:598:ILE:HG23	1.78	0.65
18:R1:442:LEU:HD21	18:R1:470:LEU:HD21	1.76	0.65
19:R2:260:GLU:OE2	20:S2:318:HIS:NE2	2.29	0.65
20:S2:152:ALA:HB1	20:S2:160:LEU:HD11	1.78	0.65
23:V1:119:GLY:O	23:V1:122:ARG:HG2	1.97	0.65
25:X2:688:HIS:N	27:Z2:8:SER:HG	1.93	0.65
25:X2:776:PHE:HA	27:Z2:666:GLU:OE2	1.96	0.65
25:X2:778:LYS:NZ	25:X2:791:ILE:HG22	2.11	0.65
25:X2:797:LEU:HD21	26:Y2:1384:LYS:CE	2.26	0.65
26:Y1:1310:VAL:CG1	26:Y1:1314:LYS:HE3	2.25	0.65
26:Y1:1383:ALA:HB2	26:Y2:1364:ASN:C	2.19	0.65
26:Y2:1228:LEU:HD13	27:Z2:539:ILE:O	1.95	0.65
27:Z1:66:ASP:OD1	27:Z1:68:THR:OG1	2.14	0.65
27:Z2:13:PHE:HE1	27:Z2:445:LEU:HB2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:184:ASP:OD1	27:Z2:184:ASP:O	2.12	0.65
27:Z2:431:TRP:HD1	27:Z2:436:ASN:ND2	1.93	0.65
29:b2:29:LYS:HE2	29:b2:81:ILE:CD1	2.25	0.65
1:A2:1091:VAL:HB	4:D1:1104:GLU:HG2	1.78	0.65
1:A3:1223:GLU:N	1:A4:648:TYR:CE2	1.85	0.65
9:I1:1048:GLU:OE1	15:O1:171:ASP:N	2.20	0.65
9:I2:806:VAL:HA	15:O3:244:GLU:HA	1.77	0.65
9:I2:1433:THR:CG2	10:J2:270:ARG:HD3	2.26	0.65
10:J1:250:THR:CB	15:O1:276:GLY:O	2.44	0.65
17:Q1:171:LYS:HZ1	17:Q1:173:ILE:HB	1.60	0.65
17:Q1:557:LEU:HD21	17:Q1:598:ILE:HG23	1.78	0.65
17:Q2:294:THR:CG2	17:Q2:307:LEU:HB2	2.25	0.65
17:Q2:742:LEU:O	17:Q2:742:LEU:HD23	1.96	0.65
17:Q2:971:ILE:CG2	17:Q2:975:PHE:HB2	2.27	0.65
22:U1:289:GLN:HG2	25:X1:794:ILE:CA	1.93	0.65
22:U1:306:GLU:N	22:U1:324:ASP:OD2	2.27	0.65
23:V2:119:GLY:O	23:V2:122:ARG:HG2	1.97	0.65
25:X1:776:PHE:HA	27:Z1:666:GLU:OE2	1.96	0.65
25:X2:637:LEU:C	27:Z2:528:PHE:CE1	2.74	0.65
25:X2:755:LEU:HD13	26:Y2:1349:LEU:CG	2.25	0.65
26:Y1:1352:VAL:O	26:Y1:1356:ILE:HG13	1.96	0.65
27:Z1:328:PHE:HD2	27:Z1:351:ILE:HG12	1.62	0.65
27:Z2:142:ILE:HG13	27:Z2:156:ILE:HD11	1.78	0.65
27:Z2:437:LEU:CG	27:Z2:448:GLN:HE21	2.07	0.65
29:b2:7:SER:N	29:b2:7:SER:CA	2.60	0.65
29:b2:16:ILE:CD1	29:b2:21:LYS:HB2	2.26	0.65
29:b2:56:THR:HG21	29:b2:91:THR:C	2.19	0.65
6:F1:1807:GLU:HA	14:N2:411:GLN:NE2	2.11	0.65
9:I2:928:LEU:HB3	15:O3:179:LEU:HD22	1.77	0.65
9:I2:963:LEU:CD1	16:P3:148:ALA:C	2.69	0.65
9:I2:1048:GLU:CD	14:N3:293:LYS:HD3	2.22	0.65
17:Q1:382:ARG:N	17:Q1:512:ILE:HG12	2.05	0.65
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:CD	2.06	0.65
17:Q2:141:THR:HG22	17:Q2:163:GLY:C	2.22	0.65
17:Q2:228:ILE:CG1	17:Q2:248:LEU:HB2	2.27	0.65
18:R1:534:SER:HA	18:R1:546:LEU:HD22	1.79	0.65
18:R1:684:ILE:HD13	18:R1:722:ALA:CA	2.23	0.65
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CD1	2.73	0.65
27:Z1:131:LEU:HD12	27:Z1:187:PHE:CZ	2.30	0.65
27:Z1:297:TYR:CG	27:Z1:321:ASP:OD2	2.44	0.65
27:Z1:634:ILE:CG2	27:Z1:638:ILE:CD1	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:182:ILE:HA	27:Z2:198:ASN:OD1	1.96	0.65
27:Z2:448:GLN:HB3	27:Z2:573:LYS:NZ	2.12	0.65
27:Z2:709:THR:O	27:Z2:709:THR:HG22	1.95	0.65
1:A2:1201:ARG:HG3	1:A1:647:GLU:HG3	1.76	0.65
6:F1:1205:TRP:CD1	15:O2:241:SER:HA	2.31	0.65
6:F2:1329:LYS:O	6:F2:1364:ASN:ND2	2.29	0.65
9:I1:1433:THR:CG2	10:J1:270:ARG:HD3	2.26	0.65
9:I2:270:TRP:NE1	9:I2:272:LYS:O	2.30	0.65
9:I2:895:ARG:HH21	13:M3:589:GLY:CA	2.00	0.65
17:Q1:366:ILE:CD1	17:Q1:377:ILE:HD13	2.27	0.65
17:Q1:443:TRP:CD1	17:Q1:504:PHE:HD1	2.06	0.65
17:Q1:697:ASP:HA	17:Q1:700:GLU:OE1	1.97	0.65
17:Q1:803:GLN:HB3	17:Q1:807:PHE:HE2	1.62	0.65
17:Q2:170:SER:HB2	17:Q2:200:ILE:HD11	1.78	0.65
17:Q2:697:ASP:HA	17:Q2:700:GLU:OE1	1.97	0.65
17:Q2:740:GLU:HG2	17:Q2:744:LYS:CE	2.27	0.65
17:Q2:866:GLN:HA	17:Q2:870:VAL:HG23	1.77	0.65
18:R1:20:LYS:O	18:R1:24:ILE:HG12	1.97	0.65
18:R1:534:SER:HA	18:R1:546:LEU:CD2	2.25	0.65
19:R2:534:SER:HA	19:R2:546:LEU:CD2	2.26	0.65
22:U1:297:LEU:C	27:Z1:654:ASP:H	2.01	0.65
22:U1:313:ASN:HB2	22:U1:318:ILE:H	1.61	0.65
26:Y1:1212:ARG:N	26:Y1:1212:ARG:CB	2.60	0.65
27:Z1:342:TYR:HE2	27:Z1:344:TYR:HD2	1.28	0.65
27:Z2:217:LEU:HD21	27:Z2:269:LYS:CD	1.86	0.65
27:Z2:328:PHE:HD2	27:Z2:351:ILE:HG12	1.61	0.65
29:b1:56:THR:CA	29:b1:57:TRP:H	2.10	0.65
29:b1:58:HIS:CE1	29:b2:70:THR:N	2.63	0.65
1:A2:1091:VAL:CA	4:D1:1104:GLU:OE2	2.42	0.65
6:F1:50:LEU:O	6:F1:56:HIS:NE2	2.30	0.65
6:F1:138:ILE:CG2	9:I1:1391:THR:HB	2.23	0.65
6:F1:138:ILE:HD12	9:I1:1391:THR:HB	1.78	0.65
7:G1:247:ASP:OD1	15:O2:247:TRP:CE3	2.50	0.65
9:I1:1038:ILE:HG13	15:O1:179:LEU:HD13	1.67	0.65
9:I1:1315:GLN:CG	15:O1:269:ILE:H	2.06	0.65
9:I1:1426:SER:OG	10:J1:263:MET:SD	2.45	0.65
9:I2:1103:LEU:N	13:M3:611:LYS:HE3	1.80	0.65
9:I2:1305:LEU:CD2	15:O3:264:ILE:CD1	2.73	0.65
17:Q1:703:THR:HA	17:Q1:707:PRO:HB2	1.78	0.65
17:Q1:740:GLU:HG2	17:Q1:744:LYS:CE	2.27	0.65
19:R2:20:LYS:O	19:R2:24:ILE:HG12	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:539:LEU:HD13	19:R2:539:LEU:O	1.97	0.65
25:X1:789:GLU:OE2	25:X1:793:LEU:HD13	1.85	0.65
25:X2:690:GLN:HB3	27:Z2:7:LEU:HD22	1.78	0.65
26:Y2:1270:LEU:HD23	27:Z2:564:LEU:CD2	2.25	0.65
27:Z1:43:ILE:HG13	27:Z1:91:MET:SD	2.36	0.65
27:Z2:12:ILE:HD13	27:Z2:54:TYR:HB3	1.76	0.65
27:Z2:282:GLN:CG	27:Z2:342:TYR:O	2.43	0.65
27:Z2:329:LYS:HE2	27:Z2:331:LEU:O	1.96	0.65
27:Z2:641:PHE:CE1	27:Z2:645:VAL:HG22	2.29	0.65
27:Z2:642:ASN:H	27:Z2:645:VAL:HG23	1.61	0.65
27:Z2:643:SER:N	27:Z2:643:SER:C	2.54	0.65
1:A3:1084:ARG:HA	4:D3:1095:ARG:HE	1.54	0.65
1:A3:1402:ASP:CB	4:D3:821:GLU:OE1	2.45	0.65
1:A4:127:HIS:CE1	4:D3:1009:ARG:N	2.61	0.65
6:F1:154:SER:CB	9:I1:1344:GLN:NE2	2.50	0.65
6:F2:137:ASN:HA	9:I2:1388:GLU:C	2.12	0.65
9:I2:803:ASP:OD1	15:O3:251:ILE:CD1	2.45	0.65
9:I2:895:ARG:NH2	13:M3:585:LEU:O	2.30	0.65
9:I2:964:SER:CB	16:P3:149:ARG:HA	2.24	0.65
9:I2:976:ARG:CZ	15:O3:174:LEU:CD1	2.74	0.65
9:I2:1046:HIS:CE1	14:N3:289:PHE:HE2	2.15	0.65
9:I2:1160:ILE:CD1	15:O3:264:ILE:HD13	2.26	0.65
17:Q1:228:ILE:CG1	17:Q1:248:LEU:HB2	2.27	0.65
17:Q1:584:LYS:HE2	17:Q1:708:TRP:HH2	1.61	0.65
17:Q1:741:GLY:O	17:Q1:745:ILE:HG13	1.95	0.65
17:Q1:866:GLN:HA	17:Q1:870:VAL:HG23	1.77	0.65
17:Q1:896:TYR:CD1	17:Q1:933:LEU:HD12	2.32	0.65
17:Q1:969:VAL:HG12	17:Q1:1009:LEU:HD22	1.79	0.65
17:Q1:982:GLU:HA	17:Q1:982:GLU:OE1	1.97	0.65
17:Q1:1094:TYR:HA	17:Q1:1097:GLU:OE2	1.96	0.65
17:Q2:291:ILE:HD13	17:Q2:311:ASN:HB2	1.77	0.65
17:Q2:670:THR:OG1	17:Q2:743:LEU:HD13	1.97	0.65
17:Q2:857:LEU:HD11	17:Q2:915:GLU:C	2.22	0.65
21:T2:180:ASN:HA	21:T2:207:VAL:HG23	1.79	0.65
24:W1:63:SER:OG	24:W1:112:GLU:OE1	2.15	0.65
25:X1:790:ASN:OD1	27:Z1:680:TRP:CZ2	2.48	0.65
25:X2:640:LEU:CD1	26:Y2:1218:PHE:CZ	2.77	0.65
25:X2:685:MET:CG	27:Z2:445:LEU:HB3	2.26	0.65
26:Y1:1314:LYS:O	26:Y1:1318:LEU:HG	1.97	0.65
26:Y2:1340:ARG:NH2	27:Z1:157:LEU:CG	2.58	0.65
27:Z1:142:ILE:HG13	27:Z1:156:ILE:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:383:GLN:HG3	27:Z1:417:ILE:HG23	1.76	0.65
27:Z2:326:LEU:HD23	27:Z2:410:PHE:HZ	1.61	0.65
27:Z2:387:MET:HE3	27:Z2:391:SER:HB3	0.66	0.65
28:a2:989:LYS:O	28:a2:991:PRO:HD3	1.95	0.65
1:A2:773:PHE:HZ	1:A2:818:LEU:HD12	1.62	0.65
1:A2:1200:ARG:C	1:A1:595:GLU:HB2	2.22	0.65
1:A2:1204:TRP:NE1	1:A1:599:ARG:N	2.44	0.65
1:A2:1220:PRO:O	1:A1:599:ARG:HB2	1.93	0.65
1:A2:1226:LEU:N	1:A1:643:ALA:C	2.52	0.65
1:A3:773:PHE:HZ	1:A3:818:LEU:HD12	1.62	0.65
1:A4:622:GLY:O	4:D3:977:GLU:CG	2.44	0.65
6:F1:137:ASN:C	9:I1:1388:GLU:O	2.35	0.65
6:F1:1329:LYS:O	6:F1:1364:ASN:ND2	2.29	0.65
7:G1:252:LEU:C	15:O2:243:LEU:HD23	2.15	0.65
9:I2:805:ILE:O	15:O3:244:GLU:CG	2.45	0.65
9:I2:976:ARG:HH12	16:P3:141:ALA:HB1	1.61	0.65
17:Q1:527:ILE:HD11	17:Q1:530:ASP:CB	2.27	0.65
17:Q1:557:LEU:O	17:Q1:557:LEU:HD23	1.97	0.65
17:Q1:725:PHE:HD1	17:Q1:740:GLU:CG	2.08	0.65
17:Q1:922:LEU:HD22	18:R1:688:LEU:CB	2.27	0.65
17:Q2:705:LYS:HA	17:Q2:705:LYS:HE3	1.78	0.65
17:Q2:1009:LEU:HD12	17:Q2:1014:SER:OG	1.96	0.65
23:V2:148:MET:HE1	23:V2:182:LEU:HD22	1.78	0.65
25:X2:680:TYR:CZ	27:Z2:439:LEU:HD12	2.32	0.65
26:Y2:1270:LEU:HD23	27:Z2:564:LEU:HD21	1.72	0.65
26:Y2:1352:VAL:O	26:Y2:1356:ILE:HG13	1.96	0.65
27:Z1:328:PHE:CZ	27:Z1:349:VAL:CG2	2.79	0.65
27:Z2:173:PHE:CE2	28:a1:1106:VAL:CG1	2.79	0.65
1:A3:1331:GLU:O	4:D3:887:ALA:HA	1.96	0.65
6:F1:138:ILE:CD1	9:I1:1388:GLU:CA	2.74	0.65
6:F1:1265:GLN:CA	15:O2:252:VAL:HG23	2.25	0.65
9:I2:1302:ARG:HD3	15:O3:263:GLN:HG3	1.79	0.65
17:Q1:443:TRP:CD2	17:Q1:504:PHE:CD1	2.71	0.65
17:Q1:670:THR:OG1	17:Q1:743:LEU:HD13	1.97	0.65
17:Q2:756:PHE:CE2	17:Q2:760:ILE:HD12	2.31	0.65
17:Q2:864:PHE:HE1	19:R2:680:ILE:HG13	1.62	0.65
23:V1:344:ARG:HH12	25:X1:715:GLU:HB3	1.61	0.65
25:X1:700:ILE:CA	26:Y1:1298:TYR:HE1	2.08	0.65
25:X1:777:ASN:O	25:X1:778:LYS:C	2.40	0.65
25:X2:700:ILE:CB	26:Y2:1298:TYR:CD1	2.65	0.65
27:Z1:173:PHE:CE2	28:a2:1106:VAL:CG1	2.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:314:ILE:HG22	27:Z1:326:LEU:HD12	1.80	0.65
27:Z1:437:LEU:CD2	27:Z1:450:ILE:CD1	2.73	0.65
1:A2:1331:GLU:O	4:D1:903:ILE:HG13	1.97	0.64
1:A3:1223:GLU:OE1	1:A4:648:TYR:N	2.28	0.64
6:F1:141:ALA:HA	9:I1:1390:PHE:CD1	2.32	0.64
6:F2:1267:ARG:HH12	15:O4:262:ASP:HB2	0.82	0.64
9:I1:981:VAL:CG1	15:O1:176:ARG:NE	2.59	0.64
9:I1:1038:ILE:HD13	15:O1:179:LEU:HD12	1.77	0.64
9:I2:979:ALA:CB	15:O3:178:ASP:OD2	2.45	0.64
9:I2:1254:VAL:HG23	14:N3:409:ALA:O	1.97	0.64
17:Q1:283:VAL:HG23	17:Q1:297:LEU:HG	1.78	0.64
17:Q2:337:HIS:CE1	17:Q2:401:ILE:HB	2.32	0.64
17:Q2:366:ILE:CD1	17:Q2:377:ILE:HD13	2.27	0.64
17:Q2:718:ILE:CG2	17:Q2:722:PHE:HE1	2.10	0.64
17:Q2:1062:VAL:O	17:Q2:1065:VAL:HG22	1.96	0.64
22:U1:288:LEU:CD1	25:X1:792:GLN:CA	2.73	0.64
25:X1:637:LEU:N	26:Y1:1218:PHE:HE2	1.91	0.64
25:X1:778:LYS:O	25:X1:778:LYS:CE	2.45	0.64
25:X1:778:LYS:CG	25:X1:778:LYS:C	2.65	0.64
25:X1:803:ALA:CB	26:Y1:1372:LYS:HG3	2.26	0.64
25:X2:815:GLU:CA	26:Y2:1402:LEU:HD22	2.27	0.64
27:Z1:7:LEU:N	27:Z1:7:LEU:C	2.54	0.64
27:Z1:189:LYS:O	27:Z1:311:GLN:CG	2.46	0.64
27:Z1:642:ASN:H	27:Z1:645:VAL:HG23	1.61	0.64
27:Z2:227:LEU:HD21	27:Z2:256:VAL:CG1	1.85	0.64
27:Z2:642:ASN:ND2	27:Z2:646:HIS:ND1	2.44	0.64
1:A2:1224:PRO:CG	1:A1:648:TYR:CE1	2.65	0.64
1:A2:1280:GLN:CA	1:A1:635:ARG:HD2	2.26	0.64
1:A3:1270:SER:HA	1:A4:729:SER:CA	2.15	0.64
6:F1:161:ALA:C	9:I1:1335:LYS:H	1.77	0.64
6:F1:273:ALA:N	9:I1:1209:THR:OG1	2.30	0.64
9:I1:918:SER:CB	15:O1:193:ALA:HB3	2.22	0.64
9:I1:976:ARG:NE	15:O1:173:ILE:N	2.45	0.64
9:I2:1033:PRO:CG	13:M3:619:ILE:N	2.46	0.64
10:J2:248:VAL:CG2	14:N3:428:ASP:OD2	2.45	0.64
17:Q1:584:LYS:CE	17:Q1:708:TRP:HH2	2.10	0.64
17:Q1:700:GLU:CD	17:Q1:758:ILE:HA	2.21	0.64
17:Q1:943:THR:CA	17:Q1:946:LYS:HE3	2.26	0.64
17:Q2:527:ILE:HD11	17:Q2:530:ASP:CB	2.27	0.64
17:Q2:703:THR:HA	17:Q2:707:PRO:HB2	1.78	0.64
17:Q2:1076:PHE:HB3	17:Q2:1155:VAL:HG22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:242:LEU:HD22	20:S1:305:VAL:HG22	1.78	0.64
20:S1:567:LEU:O	21:T1:85:GLU:C	2.41	0.64
22:U2:221:ALA:HB2	22:U2:312:TRP:CE2	2.31	0.64
27:Z1:303:ALA:HB1	27:Z1:363:LEU:HD21	1.69	0.64
27:Z1:383:GLN:CG	27:Z1:417:ILE:CG2	2.67	0.64
27:Z2:221:LYS:O	27:Z2:225:LEU:HG	1.98	0.64
28:a2:1090:SER:HB2	28:a2:1104:PHE:CD2	2.33	0.64
1:A2:1284:ASN:ND2	1:A1:635:ARG:CD	2.57	0.64
1:A3:1087:GLY:O	4:D3:1100:PRO:O	2.14	0.64
1:A3:1399:ARG:HH21	4:D3:866:PHE:HA	1.62	0.64
1:A4:827:ILE:CB	1:A4:849:SER:CA	2.76	0.64
6:F1:272:GLU:CA	9:I1:1209:THR:N	2.61	0.64
6:F1:1267:ARG:NH2	15:O2:253:LEU:O	2.30	0.64
7:G2:252:LEU:O	15:O4:248:SER:C	2.39	0.64
9:I1:270:TRP:NE1	9:I1:272:LYS:O	2.30	0.64
17:Q1:351:ILE:HB	17:Q1:362:ILE:HD11	1.78	0.64
17:Q2:584:LYS:HE2	17:Q2:708:TRP:HH2	1.61	0.64
17:Q2:813:GLY:O	17:Q2:817:THR:HG23	1.97	0.64
17:Q2:928:LYS:HE3	17:Q2:932:LEU:HD11	1.78	0.64
17:Q2:969:VAL:HG12	17:Q2:1009:LEU:HD22	1.79	0.64
18:R1:580:PHE:CE2	18:R1:584:ILE:HD11	2.32	0.64
20:S1:571:ALA:HB3	21:T1:86:ASN:CG	2.20	0.64
25:X1:776:PHE:CD1	25:X1:795:LYS:HD3	2.30	0.64
25:X1:799:SER:CA	26:Y1:1372:LYS:CA	2.75	0.64
25:X2:774:ASN:HA	25:X2:794:ILE:O	1.97	0.64
26:Y1:1122:ILE:HD13	29:b1:87:LEU:CD2	2.28	0.64
26:Y1:1386:ALA:HA	26:Y2:1357:ASN:HA	1.78	0.64
26:Y1:1389:SER:CB	26:Y2:1357:ASN:OD1	2.45	0.64
26:Y2:1382:VAL:C	26:Y2:1383:ALA:CA	2.66	0.64
27:Z1:13:PHE:HE1	27:Z1:445:LEU:HB2	1.62	0.64
27:Z1:643:SER:N	27:Z1:643:SER:C	2.54	0.64
27:Z2:41:ASN:ND2	27:Z2:60:SER:H	1.87	0.64
27:Z2:437:LEU:CD2	27:Z2:450:ILE:CD1	2.73	0.64
5:E3:67:ASP:HB3	6:F2:1658:TYR:CZ	2.26	0.64
9:I1:1034:ASP:OD2	16:P1:148:ALA:N	2.30	0.64
9:I2:1028:CYS:N	13:M3:612:PRO:C	2.55	0.64
9:I2:1297:LEU:O	9:I2:1301:ASN:ND2	2.31	0.64
9:I2:1426:SER:OG	10:J2:263:MET:SD	2.45	0.64
17:Q1:742:LEU:O	17:Q1:742:LEU:HD23	1.96	0.64
17:Q1:983:VAL:O	17:Q1:987:LEU:HG	1.98	0.64
17:Q2:210:LEU:CD1	17:Q2:212:LEU:HD23	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:288:ASN:HD21	17:Q2:332:LYS:HG2	1.62	0.64
17:Q2:426:ILE:HD12	17:Q2:479:VAL:CG2	2.28	0.64
17:Q2:557:LEU:O	17:Q2:557:LEU:HD23	1.97	0.64
17:Q2:951:LEU:O	17:Q2:951:LEU:HD23	1.97	0.64
20:S1:152:ALA:HB1	20:S1:160:LEU:HD11	1.78	0.64
22:U1:212:LYS:HZ1	25:X1:768:GLU:HA	1.62	0.64
24:W2:55:GLU:HB2	24:W2:74:SER:HA	1.78	0.64
26:Y1:1122:ILE:CD1	29:b1:65:PHE:CE2	2.79	0.64
26:Y1:1455:ASN:CB	26:Y1:1456:LEU:N	2.60	0.64
26:Y2:1449:ILE:HG22	26:Y2:1449:ILE:O	1.96	0.64
27:Z1:47:ASN:ND2	27:Z1:95:TRP:HZ2	1.82	0.64
27:Z2:381:ILE:CD1	27:Z2:424:PRO:HG3	2.28	0.64
29:b2:10:ILE:HG21	29:b2:12:LYS:CE	2.27	0.64
1:A2:1201:ARG:NH2	1:A1:647:GLU:N	2.36	0.64
1:A3:1399:ARG:HG2	4:D3:824:ARG:HH12	1.62	0.64
1:A4:833:VAL:HG21	1:A4:850:PRO:CD	2.27	0.64
6:F1:1392:LEU:HD22	15:O2:259:ASP:OD2	1.98	0.64
9:I2:1029:LEU:HD23	13:M3:613:ASP:CG	2.23	0.64
9:I2:1030:ARG:HB3	13:M3:612:PRO:HA	1.79	0.64
9:I2:1106:LYS:HG2	15:O3:274:GLY:O	1.95	0.64
17:Q1:170:SER:HB2	17:Q1:200:ILE:HD11	1.78	0.64
17:Q1:951:LEU:O	17:Q1:951:LEU:HD23	1.97	0.64
17:Q2:584:LYS:CE	17:Q2:708:TRP:HH2	2.09	0.64
17:Q2:657:LEU:HD23	17:Q2:657:LEU:H	1.61	0.64
17:Q2:903:LEU:HD12	17:Q2:926:VAL:CG1	2.27	0.64
18:R1:539:LEU:HD13	18:R1:539:LEU:O	1.97	0.64
19:R2:534:SER:HA	19:R2:546:LEU:HD22	1.79	0.64
19:R2:701:ILE:CG2	19:R2:705:PHE:HE1	2.08	0.64
20:S2:209:PRO:HB3	20:S2:532:LYS:HB2	1.78	0.64
25:X2:700:ILE:HD12	26:Y2:1298:TYR:CE1	2.27	0.64
26:Y1:1238:PHE:HE1	27:Z1:557:GLN:OE1	1.75	0.64
26:Y1:1407:SER:O	26:Y1:1411:LEU:HG	1.98	0.64
26:Y1:1449:ILE:HG22	26:Y1:1449:ILE:O	1.96	0.64
27:Z1:124:LYS:HA	27:Z1:124:LYS:N	2.12	0.64
27:Z1:207:ALA:CB	27:Z1:285:PHE:CZ	2.80	0.64
27:Z1:391:SER:HB2	27:Z2:267:PHE:HZ	1.60	0.64
27:Z1:531:ILE:HD13	27:Z2:541:LYS:HG2	1.80	0.64
27:Z1:541:LYS:HD2	27:Z2:550:HIS:C	2.22	0.64
27:Z2:116:ILE:CD1	27:Z2:125:SER:C	2.69	0.64
1:A3:1056:PHE:CZ	4:D3:1104:GLU:N	2.57	0.64
1:A3:1084:ARG:O	4:D3:1095:ARG:HD3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1271:ILE:CG1	1:A4:730:THR:HG21	2.21	0.64
6:F1:161:ALA:HB1	9:I1:1333:THR:O	1.97	0.64
7:G1:253:SER:CB	13:M2:592:LEU:HD12	2.27	0.64
9:I2:968:PRO:HD2	14:N3:300:ALA:HB1	1.79	0.64
9:I2:1101:LEU:C	15:O3:272:SER:HB2	2.20	0.64
17:Q1:805:ALA:HB2	17:Q1:815:VAL:CG1	2.28	0.64
17:Q1:971:ILE:CG2	17:Q1:975:PHE:HB2	2.27	0.64
17:Q1:1076:PHE:HB3	17:Q1:1155:VAL:HG22	1.79	0.64
17:Q2:725:PHE:HD1	17:Q2:740:GLU:CG	2.08	0.64
17:Q2:975:PHE:HD1	17:Q2:980:ILE:CD1	2.11	0.64
17:Q2:1094:TYR:HA	17:Q2:1097:GLU:OE2	1.96	0.64
20:S1:574:THR:CB	21:T1:88:ARG:CD	2.75	0.64
25:X1:638:ASP:OD1	25:X1:639:ASP:CA	2.45	0.64
25:X1:708:GLU:HG2	27:Z1:598:LEU:CD2	2.24	0.64
25:X2:638:ASP:N	25:X2:641:VAL:HG23	2.13	0.64
25:X2:665:TRP:CE3	27:Z2:556:GLN:NE2	2.51	0.64
27:Z1:112:PHE:CD1	27:Z1:156:ILE:HA	2.33	0.64
27:Z2:85:ASP:C	27:Z2:127:ILE:HG12	2.23	0.64
27:Z2:184:ASP:CG	27:Z2:197:LEU:CB	2.57	0.64
1:A1:773:PHE:HZ	1:A1:818:LEU:HD12	1.61	0.64
1:A1:833:VAL:HG21	1:A1:850:PRO:CD	2.27	0.64
1:A2:1203:TYR:HB3	1:A1:599:ARG:NH2	2.13	0.64
1:A2:1221:ILE:N	1:A1:599:ARG:HB3	2.13	0.64
6:F1:134:ASP:CB	9:I1:1388:GLU:OE1	2.45	0.64
6:F2:50:LEU:O	6:F2:56:HIS:NE2	2.30	0.64
7:G2:253:SER:HA	15:O4:250:LEU:N	2.13	0.64
9:I1:912:VAL:HG23	15:O1:198:ARG:HH22	1.60	0.64
9:I1:1051:LYS:CB	14:N1:293:LYS:NZ	2.42	0.64
9:I2:915:ALA:HB1	16:P3:160:LEU:HD21	1.79	0.64
9:I2:968:PRO:HD2	14:N3:300:ALA:CB	2.27	0.64
10:J1:251:TYR:HB3	15:O1:273:ASP:CG	2.22	0.64
10:J2:248:VAL:HG13	14:N3:428:ASP:CG	2.22	0.64
17:Q1:604:ILE:HD13	17:Q1:672:LEU:HD11	1.80	0.64
17:Q1:1078:LEU:HD21	17:Q1:1155:VAL:CG1	2.16	0.64
17:Q2:111:HIS:O	17:Q2:113:THR:HG23	1.98	0.64
17:Q2:526:SER:HB3	17:Q2:531:LEU:CD1	2.27	0.64
17:Q2:943:THR:CA	17:Q2:946:LYS:HE3	2.27	0.64
18:R1:625:LYS:HA	18:R1:628:PHE:CD1	2.33	0.64
19:R2:527:VAL:HB	19:R2:580:PHE:CD2	2.33	0.64
19:R2:625:LYS:HA	19:R2:628:PHE:CD1	2.33	0.64
22:U1:245:ILE:HG12	27:Z1:661:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W2:63:SER:OG	24:W2:112:GLU:OE1	2.15	0.64
25:X1:707:LEU:HD11	26:Y1:1306:ILE:HG12	0.75	0.64
25:X1:795:LYS:HE3	27:Z1:669:THR:OG1	1.98	0.64
25:X2:778:LYS:HG2	25:X2:794:ILE:N	2.10	0.64
25:X2:817:GLN:O	25:X2:820:SER:OG	2.09	0.64
26:Y2:1407:SER:CA	26:Y2:1410:GLN:HG2	2.27	0.64
27:Z1:83:PHE:CE2	27:Z1:130:VAL:HB	2.33	0.64
27:Z1:221:LYS:O	27:Z1:225:LEU:HG	1.98	0.64
27:Z1:328:PHE:CE2	27:Z1:349:VAL:HG11	2.27	0.64
27:Z2:35:ILE:HD12	27:Z2:429:ILE:CD1	2.19	0.64
27:Z2:83:PHE:CE2	27:Z2:130:VAL:HB	2.33	0.64
27:Z2:189:LYS:O	27:Z2:311:GLN:CG	2.46	0.64
27:Z2:213:PRO:CD	27:Z2:216:LEU:HD23	2.19	0.64
27:Z2:410:PHE:O	27:Z2:410:PHE:HD2	1.76	0.64
29:b2:12:LYS:HB2	29:b2:78:TYR:CD2	2.32	0.64
1:A2:1272:GLY:O	1:A1:723:PHE:CE1	2.48	0.64
1:A2:1281:LEU:CD1	1:A1:635:ARG:NH1	2.49	0.64
1:A2:1284:ASN:HD22	1:A1:635:ARG:CD	2.11	0.64
6:F2:135:VAL:HG11	9:I2:1337:ALA:HB2	1.80	0.64
6:F2:176:ARG:NH2	9:I2:1207:PRO:CD	2.60	0.64
7:G1:253:SER:N	15:O2:243:LEU:HD22	2.13	0.64
9:I1:1046:HIS:CE1	15:O1:167:ASN:ND2	2.66	0.64
9:I1:1048:GLU:C	14:N1:293:LYS:HD2	2.22	0.64
9:I1:1048:GLU:C	15:O1:171:ASP:HA	2.17	0.64
9:I1:1048:GLU:HG2	15:O1:167:ASN:HA	1.79	0.64
9:I1:1254:VAL:CG2	15:O1:259:ASP:N	2.61	0.64
9:I2:965:ALA:HB1	15:O3:182:THR:CG2	2.20	0.64
10:J1:250:THR:HB	15:O1:277:GLU:HA	1.78	0.64
17:Q1:813:GLY:O	17:Q1:817:THR:HG23	1.97	0.64
17:Q2:598:ILE:CB	17:Q2:636:ILE:HD13	2.24	0.64
17:Q2:625:GLN:HG2	17:Q2:626:ASN:H	1.63	0.64
17:Q2:929:LEU:HD12	19:R2:695:ALA:HB2	1.78	0.64
17:Q2:1006:TYR:CB	17:Q2:1018:PRO:HG3	2.27	0.64
19:R2:614:PRO:O	19:R2:618:GLU:HG3	1.98	0.64
22:U1:241:ARG:HG2	27:Z1:656:SER:CB	2.28	0.64
25:X2:774:ASN:CA	25:X2:794:ILE:O	2.46	0.64
26:Y1:1382:VAL:O	26:Y1:1384:LYS:CG	2.39	0.64
26:Y2:1314:LYS:O	26:Y2:1318:LEU:HG	1.97	0.64
27:Z1:211:PHE:CD1	27:Z1:211:PHE:C	2.76	0.64
27:Z1:363:LEU:HD11	27:Z1:373:LEU:HD21	0.68	0.64
27:Z1:641:PHE:CE1	27:Z1:645:VAL:HG22	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:211:PHE:CD1	27:Z2:211:PHE:C	2.76	0.64
1:A2:1226:LEU:CD2	1:A1:647:GLU:CB	2.76	0.64
9:I1:912:VAL:CG2	15:O1:198:ARG:CZ	2.66	0.64
9:I1:922:ASP:CB	15:O1:191:ARG:HB2	2.24	0.64
9:I1:976:ARG:N	14:N1:301:LEU:HD11	2.13	0.64
9:I2:914:ASN:ND2	15:O3:191:ARG:HE	1.95	0.64
17:Q1:426:ILE:HD12	17:Q1:479:VAL:CG2	2.28	0.64
17:Q1:616:LYS:CB	17:Q1:630:THR:HG21	2.28	0.64
17:Q2:111:HIS:HD2	17:Q2:514:PHE:HB2	1.62	0.64
17:Q2:338:PRO:HB3	17:Q2:347:PHE:CE2	2.33	0.64
17:Q2:532:LYS:HB2	17:Q2:581:PRO:HG3	1.80	0.64
17:Q2:564:PHE:CZ	17:Q2:568:LEU:HD21	2.33	0.64
17:Q2:1005:LEU:HA	17:Q2:1008:MET:CE	2.28	0.64
18:R1:711:LEU:HA	18:R1:714:TYR:CE2	2.33	0.64
25:X2:691:ASN:HB2	27:Z2:431:TRP:NE1	2.12	0.64
25:X2:821:ILE:HA	27:Z1:276:TYR:CE2	2.30	0.64
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CG	2.86	0.64
26:Y2:1211:LEU:CG	26:Y2:1214:ILE:HD12	2.27	0.64
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:N	2.12	0.64
26:Y2:1336:THR:HG22	26:Y2:1340:ARG:CD	2.27	0.64
27:Z1:158:ASN:CB	27:Z1:161:GLU:OE2	2.45	0.64
27:Z1:216:LEU:HG	27:Z1:272:ILE:HD12	1.66	0.64
27:Z2:34:ARG:HB3	27:Z2:45:TRP:HZ2	1.63	0.64
27:Z2:158:ASN:CB	27:Z2:161:GLU:OE2	2.46	0.64
4:D1:673:LEU:CD2	1:A1:1094:ILE:CG2	2.76	0.64
9:I2:1104:LEU:N	13:M3:611:LYS:CE	2.61	0.64
9:I2:1253:GLY:C	14:N3:410:MET:N	2.55	0.64
17:Q1:288:ASN:HD21	17:Q1:332:LYS:HG2	1.62	0.64
17:Q1:705:LYS:HA	17:Q1:705:LYS:HE3	1.78	0.64
17:Q1:922:LEU:CD1	18:R1:688:LEU:HB3	2.27	0.64
17:Q1:975:PHE:HD1	17:Q1:980:ILE:CD1	2.11	0.64
17:Q2:534:THR:O	17:Q2:537:GLU:HG2	1.98	0.64
17:Q2:556:HIS:HA	17:Q2:559:VAL:CG2	2.28	0.64
17:Q2:858:ASN:HD21	19:R2:682:LYS:HE3	1.63	0.64
17:Q2:982:GLU:HA	17:Q2:982:GLU:OE1	1.97	0.64
19:R2:601:GLN:O	19:R2:604:VAL:HG12	1.98	0.64
21:T1:227:GLN:HA	21:T1:256:VAL:HG13	1.79	0.64
25:X2:751:LEU:CD1	27:Z2:638:ILE:HG12	2.19	0.64
26:Y2:1403:ARG:HE	27:Z2:704:VAL:HG23	1.63	0.64
27:Z1:34:ARG:CD	27:Z1:95:TRP:CH2	2.77	0.64
27:Z1:45:TRP:CH2	27:Z1:47:ASN:N	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:151:ILE:HD12	27:Z1:167:ASN:HD22	1.63	0.64
29:b2:8:THR:N	29:b2:8:THR:C	2.56	0.64
29:b2:77:VAL:CG2	29:b2:79:PHE:HE1	2.11	0.64
7:G1:253:SER:CA	15:O2:243:LEU:HD22	2.27	0.63
9:I1:844:LYS:HZ1	13:M1:539:ALA:HB2	1.63	0.63
9:I2:1100:ILE:HG12	13:M3:611:LYS:HG3	1.81	0.63
9:I2:1305:LEU:HD23	15:O3:260:LEU:HD11	1.79	0.63
17:Q1:455:ILE:CD1	17:Q1:469:THR:HG22	2.28	0.63
17:Q1:526:SER:HB3	17:Q1:531:LEU:CD1	2.27	0.63
17:Q1:564:PHE:CZ	17:Q1:568:LEU:HD21	2.33	0.63
17:Q1:903:LEU:HD12	17:Q1:926:VAL:CG1	2.27	0.63
17:Q1:922:LEU:HD11	18:R1:688:LEU:HB3	1.81	0.63
17:Q1:1005:LEU:HA	17:Q1:1008:MET:CE	2.28	0.63
17:Q1:1105:ASP:O	17:Q1:1109:ILE:HD12	1.99	0.63
17:Q2:283:VAL:HG23	17:Q2:297:LEU:HG	1.78	0.63
17:Q2:805:ALA:HB2	17:Q2:815:VAL:CG1	2.28	0.63
17:Q2:983:VAL:O	17:Q2:987:LEU:HG	1.98	0.63
18:R1:465:ILE:CD1	18:R1:473:SER:HB3	2.28	0.63
18:R1:620:LEU:HD13	18:R1:620:LEU:O	1.99	0.63
25:X1:726:VAL:O	25:X1:727:SER:HB3	1.87	0.63
26:Y2:1118:ALA:HB3	29:b2:71:HIS:HE1	1.63	0.63
27:Z2:363:LEU:HD11	27:Z2:373:LEU:HD21	0.68	0.63
27:Z2:637:GLN:HA	27:Z2:640:GLN:HG2	1.80	0.63
4:D1:468:LYS:HE3	1:A1:999:SER:N	2.12	0.63
6:F1:159:ALA:N	9:I1:1339:LEU:H	1.97	0.63
9:I1:921:GLU:H	15:O1:190:ARG:NH2	1.94	0.63
9:I1:1106:LYS:CD	13:M1:613:ASP:HB3	2.27	0.63
9:I2:806:VAL:CG1	15:O3:247:TRP:C	2.54	0.63
17:Q1:111:HIS:O	17:Q1:113:THR:HG23	1.98	0.63
17:Q1:181:ILE:HG22	17:Q1:183:ASN:N	2.13	0.63
17:Q1:630:THR:HG23	17:Q1:631:THR:N	2.13	0.63
17:Q2:549:MET:CE	17:Q2:629:LEU:HB2	2.29	0.63
19:R2:580:PHE:CE2	19:R2:584:ILE:HD11	2.33	0.63
22:U1:293:GLN:HG2	26:Y1:1371:VAL:CG2	2.09	0.63
25:X2:640:LEU:CD1	26:Y2:1218:PHE:CE2	2.81	0.63
25:X2:778:LYS:HA	25:X2:794:ILE:N	1.75	0.63
27:Z1:93:VAL:O	27:Z1:93:VAL:HG13	1.98	0.63
27:Z1:116:ILE:HD11	27:Z1:125:SER:O	1.91	0.63
28:a1:1090:SER:HB2	28:a1:1104:PHE:CD2	2.33	0.63
29:b1:9:PRO:HD3	29:b1:29:LYS:CE	2.27	0.63
29:b2:76:PHE:CD1	29:b2:89:PHE:HB3	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1333:ARG:HD2	4:D1:906:ARG:HD2	1.77	0.63
6:F1:142:ALA:CB	9:I1:1395:LEU:CA	2.75	0.63
6:F1:990:GLN:NE2	9:I1:1394:ASN:CG	2.50	0.63
6:F1:1808:VAL:HA	14:N2:411:GLN:O	1.97	0.63
9:I1:900:ARG:HG3	13:M1:577:LEU:HA	0.64	0.63
9:I2:895:ARG:CG	13:M3:584:GLN:O	1.98	0.63
9:I2:900:ARG:CD	15:O3:235:ASN:N	2.58	0.63
17:Q2:98:LEU:HD23	17:Q2:99:VAL:N	2.13	0.63
21:T2:227:GLN:HA	21:T2:256:VAL:HG13	1.80	0.63
23:V1:148:MET:HE1	23:V1:182:LEU:HD22	1.79	0.63
23:V1:265:ILE:HG21	23:V1:289:ILE:HD11	1.81	0.63
25:X1:717:LYS:CE	26:Y1:1320:LEU:HD11	1.89	0.63
25:X1:795:LYS:NZ	27:Z1:666:GLU:HG2	2.01	0.63
26:Y1:1270:LEU:HD23	27:Z1:564:LEU:CD2	2.25	0.63
26:Y1:1298:TYR:CB	27:Z1:588:TRP:CZ3	2.81	0.63
26:Y2:1298:TYR:CB	27:Z2:588:TRP:CZ3	2.81	0.63
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CG	2.86	0.63
26:Y2:1409:LEU:C	27:Z2:711:LYS:CE	2.68	0.63
26:Y2:1450:GLY:HA2	27:Z2:330:ASP:OD2	1.92	0.63
27:Z1:383:GLN:HE21	27:Z1:417:ILE:HG21	1.63	0.63
27:Z2:233:MET:O	27:Z2:236:SER:OG	2.13	0.63
29:b2:56:THR:OG1	29:b2:56:THR:O	2.00	0.63
1:A2:1204:TRP:HB2	1:A1:595:GLU:HG3	1.80	0.63
4:D1:1031:ARG:NH2	1:A1:625:LEU:O	2.31	0.63
6:F1:1797:ARG:HD2	14:N2:429:GLU:CD	2.24	0.63
9:I1:640:ILE:O	9:I1:645:ARG:NH1	2.31	0.63
9:I1:980:ILE:HG12	15:O1:172:ALA:O	1.98	0.63
9:I2:979:ALA:CA	15:O3:178:ASP:OD2	2.45	0.63
9:I2:1103:LEU:HG	13:M3:611:LYS:HB3	1.77	0.63
9:I2:1160:ILE:HD13	15:O3:263:GLN:O	1.91	0.63
17:Q1:1090:LEU:HD13	17:Q1:1110:ARG:HG3	1.81	0.63
17:Q2:100:ASN:ND2	17:Q2:105:VAL:HG22	2.12	0.63
17:Q2:284:TYR:CE1	17:Q2:347:PHE:HZ	2.16	0.63
17:Q2:455:ILE:CD1	17:Q2:469:THR:HG22	2.28	0.63
17:Q2:684:GLU:HA	17:Q2:688:THR:CB	2.29	0.63
18:R1:533:LEU:HD23	18:R1:549:PHE:CE1	2.34	0.63
18:R1:601:GLN:O	18:R1:604:VAL:HG12	1.98	0.63
18:R1:614:PRO:O	18:R1:618:GLU:HG3	1.98	0.63
20:S2:570:MET:HA	21:T2:85:GLU:HG3	1.80	0.63
25:X1:638:ASP:OD1	25:X1:638:ASP:O	2.16	0.63
27:Z2:205:ILE:HG22	27:Z2:285:PHE:HD2	1.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:207:ALA:CB	27:Z2:285:PHE:CZ	2.81	0.63
27:Z2:434:GLN:HG3	27:Z2:580:LYS:HE3	0.65	0.63
1:A2:1284:ASN:ND2	1:A1:635:ARG:HB2	2.13	0.63
9:I1:900:ARG:CB	13:M1:577:LEU:HA	2.22	0.63
9:I1:1297:LEU:O	9:I1:1301:ASN:ND2	2.31	0.63
9:I2:1305:LEU:CB	15:O3:263:GLN:HG2	2.29	0.63
17:Q1:332:LYS:HE2	17:Q1:352:TYR:CD2	2.33	0.63
17:Q1:443:TRP:CG	17:Q1:504:PHE:CG	2.82	0.63
17:Q2:144:ALA:HA	17:Q2:234:ARG:NH2	2.13	0.63
17:Q2:556:HIS:HA	17:Q2:559:VAL:HG23	1.80	0.63
17:Q2:696:LEU:HD13	17:Q2:696:LEU:O	1.98	0.63
17:Q2:1005:LEU:O	17:Q2:1005:LEU:HD13	1.99	0.63
17:Q2:1035:LYS:HE3	17:Q2:1083:LEU:HD13	1.80	0.63
18:R1:621:GLN:N	18:R1:670:LYS:HE2	2.13	0.63
26:Y1:1383:ALA:N	26:Y2:1364:ASN:ND2	2.46	0.63
26:Y2:1117:TYR:CA	26:Y2:1118:ALA:H	2.07	0.63
27:Z1:164:ILE:HD13	27:Z1:277:ARG:CZ	2.28	0.63
27:Z2:45:TRP:CH2	27:Z2:47:ASN:N	2.66	0.63
27:Z2:112:PHE:CD1	27:Z2:156:ILE:HA	2.33	0.63
27:Z2:319:PHE:HZ	27:Z2:325:ILE:HD12	1.60	0.63
1:A3:871:ASN:HD22	4:D1:515:ASN:HD21	1.42	0.63
6:F1:166:THR:HG21	9:I1:1330:PHE:HE1	1.61	0.63
6:F1:1264:ARG:C	15:O2:251:ILE:HG22	2.24	0.63
9:I1:1048:GLU:CG	14:N1:293:LYS:HZ1	2.09	0.63
9:I1:1357:LYS:NZ	15:O1:263:GLN:CA	2.54	0.63
9:I2:1098:LEU:HB3	15:O3:269:ILE:HA	0.65	0.63
17:Q1:556:HIS:HA	17:Q1:559:VAL:CG2	2.28	0.63
17:Q1:870:VAL:CA	17:Q1:873:GLN:HG2	2.28	0.63
17:Q1:1078:LEU:CD2	17:Q1:1155:VAL:HG13	2.17	0.63
17:Q2:332:LYS:HE2	17:Q2:352:TYR:CD2	2.33	0.63
17:Q2:616:LYS:CB	17:Q2:630:THR:HG21	2.28	0.63
18:R1:533:LEU:HG	18:R1:537:PHE:CE2	2.34	0.63
18:R1:597:TYR:N	18:R1:620:LEU:HD23	2.13	0.63
19:R2:711:LEU:HA	19:R2:714:TYR:CE2	2.33	0.63
25:X1:726:VAL:C	25:X1:726:VAL:CA	2.72	0.63
25:X1:803:ALA:N	26:Y1:1371:VAL:HG12	2.14	0.63
25:X2:690:GLN:HG3	27:Z2:7:LEU:HB3	1.80	0.63
25:X2:778:LYS:HD2	25:X2:795:LYS:CB	2.04	0.63
25:X2:778:LYS:CB	25:X2:794:ILE:H	2.12	0.63
25:X2:815:GLU:HA	26:Y2:1402:LEU:HD22	1.78	0.63
26:Y2:1345:LEU:HA	26:Y2:1348:LYS:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:47:ASN:ND2	27:Z2:95:TRP:HZ2	1.82	0.63
27:Z2:335:MET:SD	27:Z2:337:TRP:HZ3	2.17	0.63
6:F1:138:ILE:HD13	9:I1:1391:THR:HB	1.81	0.63
6:F1:273:ALA:N	9:I1:1209:THR:CA	2.61	0.63
6:F1:1263:MET:O	15:O2:251:ILE:CG2	2.47	0.63
17:Q1:72:LEU:CD1	17:Q1:110:ILE:HG22	2.29	0.63
17:Q1:100:ASN:ND2	17:Q1:105:VAL:HG22	2.12	0.63
17:Q1:104:LYS:HB3	17:Q1:120:ILE:CD1	2.28	0.63
17:Q1:991:LEU:HD23	17:Q1:991:LEU:O	1.99	0.63
17:Q1:1006:TYR:CB	17:Q1:1018:PRO:HG3	2.27	0.63
17:Q2:856:LYS:HB2	17:Q2:859:ASP:CA	2.28	0.63
18:R1:435:PHE:CB	18:R1:448:ILE:HG12	2.29	0.63
22:U1:81:VAL:HG23	22:U1:111:LEU:HD13	1.81	0.63
25:X1:717:LYS:O	25:X1:721:LEU:HG	1.99	0.63
25:X2:680:TYR:HE2	27:Z2:419:THR:O	1.72	0.63
25:X2:685:MET:CA	27:Z2:445:LEU:O	2.47	0.63
27:Z1:85:ASP:HA	27:Z1:127:ILE:HG13	1.80	0.63
27:Z1:210:PRO:O	27:Z1:212:LEU:CG	2.38	0.63
27:Z1:361:LYS:HZ2	27:Z1:378:ASP:HB2	1.55	0.63
27:Z1:540:VAL:C	27:Z2:555:GLU:CG	2.40	0.63
27:Z2:188:SER:HB3	27:Z2:193:THR:HB	1.81	0.63
29:b1:78:TYR:HE1	29:b1:85:ALA:HB1	1.64	0.63
9:I1:919:ALA:C	15:O1:191:ARG:NH2	2.56	0.63
9:I1:1051:LYS:NZ	14:N1:289:PHE:C	2.56	0.63
9:I1:1246:ILE:HG13	15:O1:255:GLY:N	2.14	0.63
9:I2:640:ILE:O	9:I2:645:ARG:NH1	2.31	0.63
9:I2:813:ILE:HG22	15:O3:241:SER:HB2	0.68	0.63
9:I2:1305:LEU:CG	15:O3:264:ILE:HD11	2.23	0.63
17:Q2:651:ASN:CA	17:Q2:654:VAL:HG22	2.29	0.63
17:Q2:1017:ILE:HB	17:Q2:1018:PRO:HD3	1.81	0.63
18:R1:409:LYS:NZ	18:R1:448:ILE:HA	1.97	0.63
19:R2:597:TYR:N	19:R2:620:LEU:HD23	2.13	0.63
19:R2:620:LEU:HD13	19:R2:620:LEU:O	1.98	0.63
19:R2:690:PHE:HA	19:R2:693:LEU:HD12	1.81	0.63
19:R2:707:SER:CA	19:R2:711:LEU:HD13	2.19	0.63
25:X1:640:LEU:CD1	26:Y1:1218:PHE:CE2	2.81	0.63
26:Y1:1404:GLU:O	26:Y1:1408:ARG:HG3	1.99	0.63
27:Z1:24:ARG:HD3	27:Z1:441:SER:N	2.14	0.63
27:Z1:188:SER:HB3	27:Z1:193:THR:HB	1.81	0.63
27:Z2:352:GLU:OE1	27:Z2:410:PHE:HE2	1.62	0.63
29:b1:68:TYR:CD2	29:b2:46:LYS:CB	2.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b2:10:ILE:O	29:b2:80:TYR:N	2.32	0.63
1:A1:833:VAL:HG21	1:A1:850:PRO:HD2	1.81	0.63
6:F1:141:ALA:CB	9:I1:1390:PHE:HD2	1.80	0.63
6:F1:176:ARG:CD	9:I1:1201:PHE:CZ	2.82	0.63
6:F1:330:GLU:N	6:F1:330:GLU:OE1	2.32	0.63
6:F1:1053:LEU:HG	9:I1:1388:GLU:HG2	1.80	0.63
7:G2:250:THR:O	15:O4:252:VAL:HA	1.96	0.63
9:I1:1051:LYS:HD3	14:N1:289:PHE:CD2	2.24	0.63
9:I2:1254:VAL:CA	14:N3:408:MET:CA	2.76	0.63
9:I2:1254:VAL:CA	14:N3:411:GLN:N	2.62	0.63
9:I2:1360:GLU:N	9:I2:1360:GLU:OE1	2.32	0.63
17:Q1:98:LEU:HD23	17:Q1:99:VAL:N	2.13	0.63
17:Q1:386:PHE:HE2	17:Q1:566:ASN:ND2	1.96	0.63
17:Q1:532:LYS:HB2	17:Q1:581:PRO:HG3	1.80	0.63
17:Q1:538:ILE:HD13	17:Q1:567:PHE:HE1	1.59	0.63
17:Q1:745:ILE:CD1	17:Q1:800:GLN:HG3	2.28	0.63
17:Q1:856:LYS:HB2	17:Q1:859:ASP:CA	2.28	0.63
17:Q1:933:LEU:HD13	17:Q1:933:LEU:O	1.99	0.63
17:Q2:532:LYS:HB2	17:Q2:581:PRO:CG	2.29	0.63
17:Q2:573:LYS:HG3	17:Q2:574:ASN:N	2.14	0.63
17:Q2:604:ILE:HD13	17:Q2:672:LEU:HD11	1.80	0.63
17:Q2:938:ASN:H	17:Q2:938:ASN:HD22	1.47	0.63
25:X2:680:TYR:CD2	27:Z2:419:THR:O	2.51	0.63
25:X2:694:ASP:HB3	27:Z2:432:ASN:N	2.09	0.63
25:X2:717:LYS:O	25:X2:721:LEU:HG	1.98	0.63
26:Y1:1371:VAL:CB	26:Y1:1372:LYS:HD3	2.19	0.63
26:Y2:1122:ILE:CG1	29:b2:67:SER:OG	2.47	0.63
27:Z1:630:TRP:CD1	27:Z1:634:ILE:CD1	2.82	0.63
27:Z1:630:TRP:CD1	27:Z1:634:ILE:HD11	2.32	0.63
27:Z2:252:GLN:OE1	27:Z2:334:SER:HA	1.99	0.63
27:Z2:630:TRP:CD1	27:Z2:634:ILE:CD1	2.82	0.63
29:b2:71:HIS:CB	29:b2:76:PHE:CD1	2.80	0.63
6:F1:271:THR:OG1	9:I1:1200:ILE:HB	1.98	0.62
9:I1:910:LYS:NZ	13:M1:546:ARG:CA	2.62	0.62
9:I1:926:SER:HA	15:O1:184:ARG:NH1	2.13	0.62
9:I1:980:ILE:HG12	15:O1:176:ARG:N	2.14	0.62
9:I2:806:VAL:HG12	15:O3:244:GLU:O	1.98	0.62
9:I2:902:GLN:OE1	13:M3:580:LYS:HA	1.98	0.62
9:I2:956:ILE:O	16:P3:151:LYS:NZ	2.31	0.62
9:I2:959:SER:C	16:P3:151:LYS:HE2	2.24	0.62
9:I2:1160:ILE:HD12	15:O3:263:GLN:C	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1308:THR:CG2	14:N3:414:ALA:CA	2.74	0.62
10:J1:252:LEU:CD1	15:O1:273:ASP:HB3	2.23	0.62
17:Q2:104:LYS:HB3	17:Q2:120:ILE:CD1	2.28	0.62
17:Q2:745:ILE:CD1	17:Q2:800:GLN:HG3	2.28	0.62
17:Q2:933:LEU:HD13	17:Q2:933:LEU:O	1.99	0.62
18:R1:527:VAL:HB	18:R1:580:PHE:CD2	2.33	0.62
22:U2:85:GLU:HB2	22:U2:101:LEU:HD11	1.79	0.62
24:W1:829:SER:HA	24:W1:841:ALA:HB1	1.81	0.62
25:X1:742:GLN:NE2	25:X1:743:GLN:HG3	2.12	0.62
25:X2:686:ALA:O	27:Z2:8:SER:HB2	1.98	0.62
26:Y1:1403:ARG:HE	27:Z1:704:VAL:HG23	1.63	0.62
27:Z1:34:ARG:HB3	27:Z1:45:TRP:HZ2	1.63	0.62
27:Z1:252:GLN:OE1	27:Z1:334:SER:HA	1.99	0.62
27:Z1:263:TRP:CZ3	27:Z1:265:SER:CB	2.74	0.62
27:Z1:342:TYR:CE1	27:Z1:344:TYR:CE2	2.68	0.62
27:Z2:120:GLU:C	27:Z2:124:LYS:CE	2.72	0.62
27:Z2:133:HIS:HE1	27:Z2:211:PHE:O	1.82	0.62
27:Z2:136:SER:O	27:Z2:217:LEU:CG	2.47	0.62
29:b1:56:THR:HB	29:b1:91:THR:O	1.99	0.62
9:I1:1049:LEU:HD23	15:O1:170:LEU:CD2	2.22	0.62
9:I2:1035:GLN:NE2	16:P3:142:LEU:O	2.27	0.62
17:Q1:534:THR:O	17:Q1:537:GLU:HG2	1.98	0.62
17:Q1:556:HIS:HA	17:Q1:559:VAL:HG23	1.80	0.62
17:Q1:684:GLU:HA	17:Q1:688:THR:CB	2.29	0.62
17:Q1:696:LEU:HD13	17:Q1:696:LEU:O	1.98	0.62
17:Q2:991:LEU:O	17:Q2:991:LEU:HD23	1.99	0.62
22:U2:81:VAL:HG23	22:U2:111:LEU:HD13	1.81	0.62
26:Y1:1345:LEU:HA	26:Y1:1348:LYS:HG2	1.81	0.62
27:Z1:85:ASP:C	27:Z1:127:ILE:HG12	2.23	0.62
27:Z2:13:PHE:CD1	27:Z2:445:LEU:HD22	2.33	0.62
27:Z2:27:PHE:CE1	27:Z2:36:VAL:CB	2.63	0.62
29:b2:56:THR:HG21	29:b2:92:ALA:HA	1.80	0.62
1:A2:1224:PRO:HD3	1:A1:595:GLU:O	1.98	0.62
1:A2:1313:LYS:HZ3	1:A1:728:LYS:HZ1	0.67	0.62
1:A3:1223:GLU:CB	1:A4:648:TYR:HE2	1.34	0.62
9:I1:911:PRO:HD2	15:O1:202:LEU:CD1	2.30	0.62
9:I2:843:GLU:H	15:O3:191:ARG:CZ	2.11	0.62
9:I2:968:PRO:HG2	14:N3:300:ALA:O	1.92	0.62
9:I2:1034:ASP:CG	13:M3:622:VAL:HG21	2.24	0.62
9:I2:1102:GLN:HG2	15:O3:274:GLY:H	1.63	0.62
17:Q1:144:ALA:HA	17:Q1:234:ARG:NH2	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:276:LEU:HB2	17:Q1:280:THR:CG2	2.27	0.62
17:Q1:382:ARG:C	17:Q1:508:ASN:HA	1.91	0.62
17:Q1:674:ASN:CG	17:Q1:746:VAL:HG13	2.24	0.62
17:Q1:718:ILE:CG2	17:Q1:722:PHE:HE1	2.10	0.62
17:Q1:938:ASN:H	17:Q1:938:ASN:HD22	1.47	0.62
17:Q1:1005:LEU:HD13	17:Q1:1005:LEU:O	1.99	0.62
17:Q2:181:ILE:HG22	17:Q2:183:ASN:N	2.13	0.62
17:Q2:350:SER:HA	17:Q2:363:LEU:CD2	2.30	0.62
22:U1:248:LYS:HG2	25:X1:805:ARG:CB	2.28	0.62
25:X1:700:ILE:C	26:Y1:1298:TYR:OH	2.42	0.62
25:X2:693:ILE:HD13	27:Z2:7:LEU:HD12	1.77	0.62
25:X2:699:TYR:HE2	27:Z2:50:THR:HG23	1.62	0.62
25:X2:778:LYS:NZ	25:X2:795:LYS:CB	2.54	0.62
26:Y2:1317:TYR:CZ	27:Z1:48:VAL:O	2.52	0.62
26:Y2:1407:SER:O	26:Y2:1411:LEU:HG	1.98	0.62
27:Z1:24:ARG:HD3	27:Z1:441:SER:CA	2.30	0.62
27:Z1:380:ILE:HG22	27:Z1:382:GLN:HG3	1.81	0.62
27:Z1:630:TRP:O	27:Z1:634:ILE:HG13	1.99	0.62
27:Z2:182:ILE:HD13	27:Z2:196:CYS:HB3	1.81	0.62
29:b1:56:THR:HG21	29:b1:91:THR:HG22	1.82	0.62
1:A2:1330:VAL:HG12	4:D1:879:ASP:OD2	1.99	0.62
1:A3:1396:GLY:O	4:D3:869:THR:CB	2.48	0.62
9:I2:906:GLY:HA2	13:M3:573:ARG:CG	2.27	0.62
9:I2:1051:LYS:CD	14:N3:289:PHE:CA	2.73	0.62
9:I2:1099:ARG:O	15:O3:272:SER:HA	1.99	0.62
9:I2:1116:ASP:OD1	10:J2:241:THR:HG23	2.00	0.62
9:I2:1433:THR:HG21	10:J2:270:ARG:HD3	1.81	0.62
17:Q1:338:PRO:HB3	17:Q1:347:PHE:CE2	2.33	0.62
21:T1:180:ASN:HA	21:T1:207:VAL:HG23	1.79	0.62
24:W1:534:ASP:OD2	24:W1:746:CYS:C	2.42	0.62
25:X1:815:GLU:HA	26:Y1:1402:LEU:HD22	1.78	0.62
25:X2:715:GLU:OE2	27:Z2:605:LEU:HD21	1.99	0.62
25:X2:789:GLU:N	25:X2:789:GLU:C	2.56	0.62
26:Y2:1310:VAL:HG12	26:Y2:1314:LYS:HE3	1.80	0.62
26:Y2:1369:PHE:HE2	27:Z2:683:LEU:HD22	1.59	0.62
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:CD2	2.82	0.62
27:Z1:212:LEU:HB3	27:Z1:272:ILE:HD13	1.81	0.62
27:Z1:288:ASN:ND2	27:Z1:289:PRO:N	2.46	0.62
27:Z1:440:MET:HG2	27:Z1:445:LEU:HD13	1.81	0.62
27:Z2:151:ILE:HD12	27:Z2:167:ASN:HD22	1.63	0.62
27:Z2:359:GLU:HB3	27:Z2:361:LYS:CE	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:827:ILE:CB	1:A1:849:SER:CA	2.76	0.62
1:A4:773:PHE:HZ	1:A4:818:LEU:HD12	1.61	0.62
9:I1:926:SER:CA	15:O1:184:ARG:HH11	2.11	0.62
9:I1:1227:GLU:N	9:I1:1227:GLU:OE1	2.32	0.62
9:I2:914:ASN:CB	15:O3:194:GLU:H	2.12	0.62
9:I2:916:ALA:HB2	15:O3:192:HIS:CB	2.29	0.62
9:I2:1254:VAL:CA	14:N3:408:MET:HA	2.29	0.62
17:Q1:57:ASN:O	17:Q1:73:GLN:HG3	2.00	0.62
17:Q1:284:TYR:CE1	17:Q1:347:PHE:HZ	2.16	0.62
17:Q1:532:LYS:HB2	17:Q1:581:PRO:CG	2.29	0.62
17:Q1:625:GLN:HG2	17:Q1:626:ASN:H	1.63	0.62
17:Q1:651:ASN:CA	17:Q1:654:VAL:HG22	2.29	0.62
17:Q1:869:ASP:HA	17:Q1:872:ILE:HD12	1.82	0.62
17:Q2:803:GLN:HB3	17:Q2:807:PHE:HE2	1.62	0.62
20:S2:300:LEU:HD23	20:S2:388:LEU:HD21	1.82	0.62
25:X1:715:GLU:OE2	27:Z1:605:LEU:HD21	1.99	0.62
25:X1:795:LYS:NZ	27:Z1:666:GLU:CG	2.60	0.62
25:X2:711:LEU:HD11	26:Y2:1309:ASP:OD2	2.00	0.62
26:Y2:1277:LYS:CE	27:Z2:571:ILE:CG1	2.61	0.62
26:Y2:1320:LEU:HB2	27:Z1:49:LEU:O	1.83	0.62
27:Z1:182:ILE:HD13	27:Z1:196:CYS:HB3	1.81	0.62
27:Z1:381:ILE:CD1	27:Z1:424:PRO:HG3	2.28	0.62
27:Z1:401:ASP:OD2	27:Z2:263:TRP:CB	2.47	0.62
1:A2:1224:PRO:N	1:A1:594:LEU:O	2.32	0.62
1:A3:1272:GLY:HA2	1:A4:727:ASN:CB	2.29	0.62
7:G1:254:ASN:HD21	15:O2:250:LEU:CB	2.12	0.62
9:I1:965:ALA:CB	15:O1:185:ALA:HB2	2.27	0.62
9:I2:1046:HIS:HE1	14:N3:289:PHE:HE2	1.46	0.62
17:Q1:386:PHE:CE2	17:Q1:566:ASN:ND2	2.67	0.62
17:Q1:703:THR:CA	17:Q1:707:PRO:HB2	2.30	0.62
17:Q1:725:PHE:CD1	17:Q1:744:LYS:HG3	2.35	0.62
17:Q1:903:LEU:O	17:Q1:907:THR:HG23	2.00	0.62
17:Q2:870:VAL:CA	17:Q2:873:GLN:HG2	2.28	0.62
17:Q2:1028:LEU:HB2	17:Q2:1029:LEU:HD12	1.82	0.62
22:U1:295:GLU:HB2	27:Z1:657:TYR:CE2	2.34	0.62
24:W1:119:VAL:HB	24:W1:131:LEU:HB2	1.81	0.62
25:X1:711:LEU:HD11	26:Y1:1309:ASP:OD2	2.00	0.62
25:X2:692:LYS:CD	27:Z2:10:LEU:HB2	2.26	0.62
25:X2:777:ASN:CA	25:X2:793:LEU:HB2	2.29	0.62
25:X2:789:GLU:HB2	27:Z2:680:TRP:CZ3	2.34	0.62
26:Y1:1310:VAL:HG12	26:Y1:1314:LYS:HE3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:136:SER:O	27:Z1:217:LEU:CG	2.47	0.62
27:Z2:630:TRP:O	27:Z2:634:ILE:HG13	1.99	0.62
29:b2:69:VAL:CG2	29:b2:76:PHE:CZ	2.82	0.62
1:A3:1086:LYS:CB	4:D3:1096:TYR:CD1	2.63	0.62
1:A3:1223:GLU:CB	1:A4:648:TYR:HD2	1.27	0.62
6:F1:272:GLU:N	9:I1:1209:THR:N	2.47	0.62
9:I1:26:GLU:N	9:I1:26:GLU:OE1	2.33	0.62
9:I2:1254:VAL:HG23	14:N3:409:ALA:C	2.25	0.62
17:Q2:276:LEU:HB2	17:Q2:280:THR:CG2	2.26	0.62
17:Q2:1105:ASP:O	17:Q2:1109:ILE:HD12	1.99	0.62
23:V1:170:ASN:O	23:V1:174:GLU:HG3	1.99	0.62
23:V1:515:THR:HG22	23:V1:516:ASN:H	1.65	0.62
25:X2:708:GLU:HG2	27:Z2:598:LEU:CD2	2.24	0.62
26:Y1:1410:GLN:H	27:Z1:711:LYS:NZ	1.97	0.62
26:Y2:1123:GLN:NE2	29:b1:37:LEU:HG	2.14	0.62
26:Y2:1298:TYR:CB	27:Z2:588:TRP:CH2	2.83	0.62
26:Y2:1332:LYS:CG	27:Z1:97:TYR:N	2.62	0.62
26:Y2:1404:GLU:O	26:Y2:1408:ARG:HG3	1.99	0.62
27:Z1:27:PHE:CE1	27:Z1:36:VAL:HB	2.33	0.62
27:Z1:637:GLN:HA	27:Z1:640:GLN:HG2	1.80	0.62
27:Z2:138:ARG:HH11	27:Z2:138:ARG:HG3	1.65	0.62
27:Z2:197:LEU:HB2	27:Z2:302:ILE:CG2	2.29	0.62
27:Z2:216:LEU:HG	27:Z2:272:ILE:HD12	1.66	0.62
27:Z2:342:TYR:CD2	27:Z2:344:TYR:CD2	2.86	0.62
29:b1:58:HIS:HE1	29:b2:70:THR:O	1.83	0.62
1:A3:1273:ALA:N	1:A4:730:THR:HG21	2.14	0.62
9:I1:1048:GLU:HG2	15:O1:167:ASN:CA	2.29	0.62
9:I1:1360:GLU:N	9:I1:1360:GLU:OE1	2.32	0.62
9:I2:1164:ALA:HB3	15:O3:266:GLN:O	1.88	0.62
17:Q1:291:ILE:CD1	17:Q1:311:ASN:HB2	2.29	0.62
17:Q1:543:GLY:C	17:Q1:637:ASN:HD21	2.08	0.62
17:Q1:1017:ILE:HB	17:Q1:1018:PRO:HD3	1.81	0.62
17:Q2:291:ILE:CD1	17:Q2:311:ASN:HB2	2.29	0.62
17:Q2:332:LYS:HE3	17:Q2:334:TRP:CE2	2.35	0.62
17:Q2:630:THR:HG23	17:Q2:631:THR:N	2.13	0.62
17:Q2:780:LEU:O	17:Q2:780:LEU:HD23	2.00	0.62
17:Q2:869:ASP:HA	17:Q2:872:ILE:HD12	1.82	0.62
19:R2:621:GLN:N	19:R2:670:LYS:HE2	2.13	0.62
22:U1:85:GLU:HB2	22:U1:101:LEU:HD11	1.80	0.62
23:V2:515:THR:HG22	23:V2:516:ASN:H	1.65	0.62
25:X1:811:SER:HG	27:Z1:701:LEU:CD1	1.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:680:TYR:OH	27:Z2:439:LEU:HD12	1.99	0.62
25:X2:695:GLN:CA	27:Z2:431:TRP:HE3	2.13	0.62
26:Y2:1412:GLU:HG3	27:Z1:254:GLN:CB	2.23	0.62
27:Z1:34:ARG:HB3	27:Z1:45:TRP:CZ2	2.35	0.62
27:Z1:197:LEU:HB2	27:Z1:302:ILE:CG2	2.29	0.62
27:Z1:250:ILE:O	27:Z1:254:GLN:HG2	2.00	0.62
27:Z1:294:LEU:HD21	27:Z1:353:ARG:CZ	2.26	0.62
27:Z1:304:THR:HG23	27:Z1:313:GLU:OE1	1.98	0.62
27:Z1:352:GLU:O	27:Z1:352:GLU:CG	2.40	0.62
27:Z2:119:GLU:CA	27:Z2:120:GLU:N	2.58	0.62
27:Z2:210:PRO:O	27:Z2:212:LEU:CG	2.38	0.62
27:Z2:328:PHE:CE2	27:Z2:349:VAL:HG11	2.27	0.62
27:Z2:380:ILE:HG22	27:Z2:382:GLN:HG3	1.81	0.62
27:Z2:640:GLN:C	27:Z2:640:GLN:HA	2.17	0.62
1:A3:1204:TRP:CD1	1:A4:595:GLU:CG	2.73	0.62
9:I1:844:LYS:HZ1	13:M1:539:ALA:CB	2.13	0.62
9:I1:1606:GLU:CD	9:I2:1669:ARG:NH1	2.50	0.62
9:I2:900:ARG:HD3	15:O3:235:ASN:CA	2.13	0.62
17:Q1:573:LYS:HG3	17:Q1:574:ASN:N	2.14	0.62
17:Q2:279:GLY:HA3	17:Q2:299:ALA:HA	1.82	0.62
17:Q2:464:SER:HB2	17:Q2:477:PHE:O	2.00	0.62
17:Q2:674:ASN:CG	17:Q2:746:VAL:HG13	2.25	0.62
17:Q2:725:PHE:CD1	17:Q2:744:LYS:HG3	2.35	0.62
17:Q2:942:ASN:O	17:Q2:946:LYS:HG3	2.00	0.62
18:R1:538:LEU:CA	18:R1:546:LEU:HD11	2.29	0.62
22:U1:209:PRO:CD	27:Z1:663:THR:H	2.12	0.62
25:X2:658:TYR:HD1	26:Y2:1239:PHE:CE1	2.18	0.62
25:X2:700:ILE:C	26:Y2:1298:TYR:HH	2.05	0.62
26:Y1:1117:TYR:N	26:Y1:1117:TYR:C	2.58	0.62
26:Y1:1298:TYR:CB	27:Z1:588:TRP:CH2	2.82	0.62
27:Z1:145:LEU:CD1	27:Z1:182:ILE:HG21	2.29	0.62
27:Z1:149:ASP:OD1	27:Z1:182:ILE:CB	2.48	0.62
27:Z1:342:TYR:CD2	27:Z1:344:TYR:CD2	2.86	0.62
27:Z1:640:GLN:C	27:Z1:640:GLN:HA	2.18	0.62
27:Z2:102:ASP:HB3	27:Z2:105:ILE:CG1	2.29	0.62
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ2	2.08	0.62
27:Z2:152:THR:OG1	27:Z2:154:PHE:HE1	1.81	0.62
27:Z2:252:GLN:CA	27:Z2:335:MET:HE3	2.30	0.62
28:a1:1015:PRO:HG2	28:a1:1018:SER:OG	1.99	0.62
28:a1:1069:ILE:HD12	28:a1:1076:LEU:HD12	1.82	0.62
29:b2:49:LEU:HD13	29:b2:57:TRP:CE3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1270:SER:HA	1:A1:731:ILE:O	1.97	0.62
1:A3:1273:ALA:HA	1:A4:642:ARG:NH1	2.14	0.62
1:A3:1332:ARG:CZ	4:D3:899:THR:CG2	2.77	0.62
6:F1:273:ALA:N	9:I1:1209:THR:CB	2.63	0.62
9:I2:960:SER:CB	16:P3:154:ALA:H	1.96	0.62
10:J1:249:ASP:OD2	15:O1:275:LEU:CG	2.32	0.62
18:R1:511:ILE:HG13	18:R1:549:PHE:CD1	2.34	0.62
19:R2:533:LEU:HD23	19:R2:549:PHE:CE1	2.34	0.62
22:U1:209:PRO:CA	27:Z1:663:THR:OG1	2.43	0.62
22:U1:243:PHE:CE2	27:Z1:660:SER:CB	2.82	0.62
23:V2:265:ILE:HG21	23:V2:289:ILE:HD11	1.81	0.62
25:X2:704:GLN:CD	27:Z2:598:LEU:CD1	2.73	0.62
26:Y1:1345:LEU:CD2	26:Y1:1348:LYS:HZ2	2.05	0.62
26:Y1:1453:PHE:CD2	27:Z1:328:PHE:CE2	2.88	0.62
26:Y2:1126:LEU:CD2	29:b2:63:LYS:HD2	2.28	0.62
27:Z1:544:THR:HB	27:Z2:554:HIS:CG	2.34	0.62
27:Z2:117:ASP:HA	27:Z2:124:LYS:HE2	1.76	0.62
27:Z2:212:LEU:HB3	27:Z2:272:ILE:HD13	1.81	0.62
27:Z2:328:PHE:HZ	27:Z2:349:VAL:HG11	1.65	0.62
27:Z2:361:LYS:HZ2	27:Z2:378:ASP:HB2	1.55	0.62
28:a2:1015:PRO:HG2	28:a2:1018:SER:OG	1.99	0.62
28:a2:1069:ILE:HD12	28:a2:1076:LEU:HD12	1.82	0.62
29:b1:71:HIS:CD2	29:b1:71:HIS:H	2.17	0.62
1:A2:1331:GLU:C	4:D1:903:ILE:HG13	2.25	0.61
1:A3:1223:GLU:O	1:A4:594:LEU:HD21	1.90	0.61
1:A3:1273:ALA:H	1:A4:730:THR:CG2	2.13	0.61
1:A3:1328:ARG:HB3	4:D3:891:TYR:HE1	1.65	0.61
9:I1:961:ARG:NH1	15:O1:190:ARG:CB	2.63	0.61
9:I1:1050:SER:OG	14:N1:293:LYS:CB	2.47	0.61
9:I1:1644:ARG:HD3	10:J1:275:PHE:CZ	2.34	0.61
9:I2:26:GLU:N	9:I2:26:GLU:OE1	2.33	0.61
9:I2:1049:LEU:CD1	16:P3:141:ALA:O	2.41	0.61
9:I2:1253:GLY:C	14:N3:409:ALA:H	1.98	0.61
17:Q1:444:GLU:O	17:Q1:504:PHE:CD1	2.49	0.61
17:Q2:449:LEU:HD23	17:Q2:453:ILE:HG21	1.82	0.61
17:Q2:837:ASN:HA	17:Q2:842:GLU:CB	2.30	0.61
17:Q2:1090:LEU:HD13	17:Q2:1110:ARG:HG3	1.81	0.61
18:R1:701:ILE:HG22	18:R1:705:PHE:CE1	2.34	0.61
19:R2:511:ILE:HG13	19:R2:549:PHE:CD1	2.34	0.61
19:R2:533:LEU:HG	19:R2:537:PHE:CE2	2.34	0.61
20:S1:519:LEU:O	20:S1:529:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:686:ALA:O	27:Z2:8:SER:CB	2.48	0.61
26:Y2:1119:GLU:OE1	29:b2:68:TYR:CE1	2.49	0.61
27:Z1:13:PHE:CD1	27:Z1:445:LEU:HD22	2.33	0.61
27:Z2:13:PHE:CE1	27:Z2:445:LEU:CB	2.83	0.61
27:Z2:145:LEU:CD1	27:Z2:182:ILE:HG21	2.29	0.61
27:Z2:149:ASP:OD1	27:Z2:182:ILE:CB	2.48	0.61
27:Z2:218:LEU:HB3	27:Z2:223:LEU:HG	1.82	0.61
27:Z2:300:THR:O	27:Z2:301:ASN:CG	2.43	0.61
27:Z2:630:TRP:HE1	27:Z2:634:ILE:HD11	1.57	0.61
9:I1:904:GLU:HG3	13:M1:577:LEU:HB2	1.81	0.61
9:I1:916:ALA:CB	14:N1:315:VAL:HG22	2.30	0.61
9:I1:1357:LYS:HE2	15:O1:263:GLN:HA	1.82	0.61
9:I2:964:SER:CA	16:P3:149:ARG:C	2.63	0.61
9:I2:1227:GLU:N	9:I2:1227:GLU:OE1	2.33	0.61
17:Q1:279:GLY:HA3	17:Q1:299:ALA:HA	1.82	0.61
17:Q1:464:SER:HB2	17:Q1:477:PHE:O	2.00	0.61
17:Q1:549:MET:CE	17:Q1:629:LEU:HB2	2.29	0.61
17:Q1:599:LYS:HD2	17:Q1:599:LYS:C	2.26	0.61
17:Q1:646:PHE:CE2	17:Q1:669:VAL:HB	2.35	0.61
17:Q2:264:ASN:CB	17:Q2:289:LYS:HB2	2.30	0.61
17:Q2:666:LYS:O	17:Q2:670:THR:HG23	2.00	0.61
17:Q2:852:ILE:HD13	17:Q2:913:LYS:HZ2	1.60	0.61
17:Q2:903:LEU:O	17:Q2:907:THR:HG23	2.00	0.61
18:R1:690:PHE:HA	18:R1:693:LEU:HD12	1.81	0.61
19:R2:539:LEU:HD22	19:R2:658:LEU:HD22	1.82	0.61
20:S2:574:THR:CB	21:T2:86:ASN:HB3	2.30	0.61
24:W1:523:ASP:CB	24:W1:736:ASN:O	2.27	0.61
27:Z1:207:ALA:HB2	27:Z1:285:PHE:HZ	1.65	0.61
27:Z2:12:ILE:CD1	27:Z2:54:TYR:CB	2.72	0.61
7:G2:251:TYR:O	15:O4:252:VAL:HA	2.01	0.61
9:I1:924:ILE:HG12	15:O1:187:ASN:HD21	1.64	0.61
9:I1:1051:LYS:HE2	14:N1:289:PHE:CZ	2.30	0.61
9:I2:1644:ARG:HD3	10:J2:275:PHE:CZ	2.35	0.61
17:Q1:780:LEU:O	17:Q1:780:LEU:HD23	2.00	0.61
17:Q2:57:ASN:O	17:Q2:73:GLN:HG3	2.00	0.61
17:Q2:584:LYS:NZ	17:Q2:590:LYS:HB2	2.15	0.61
17:Q2:615:GLU:HB2	17:Q2:645:ILE:CG2	2.31	0.61
17:Q2:703:THR:HA	17:Q2:707:PRO:CG	2.30	0.61
17:Q2:703:THR:CA	17:Q2:707:PRO:HB2	2.30	0.61
17:Q2:705:LYS:HZ2	17:Q2:710:ILE:HG21	1.64	0.61
17:Q2:971:ILE:HD11	17:Q2:984:PHE:CD2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:534:SER:CA	18:R1:546:LEU:HD22	2.29	0.61
24:W2:119:VAL:HB	24:W2:131:LEU:HB2	1.82	0.61
25:X2:640:LEU:HD13	26:Y2:1218:PHE:CE1	2.34	0.61
25:X2:773:SER:C	25:X2:797:LEU:HD11	2.25	0.61
26:Y2:1117:TYR:OH	29:b2:70:THR:C	2.41	0.61
26:Y2:1298:TYR:HB2	27:Z2:588:TRP:CZ3	2.36	0.61
26:Y2:1372:LYS:O	26:Y2:1382:VAL:N	2.33	0.61
27:Z1:124:LYS:CD	27:Z1:126:SER:N	2.54	0.61
27:Z1:300:THR:O	27:Z1:301:ASN:CG	2.43	0.61
27:Z1:359:GLU:HG2	27:Z1:361:LYS:CE	2.29	0.61
27:Z1:359:GLU:HB3	27:Z1:361:LYS:CE	2.29	0.61
27:Z1:541:LYS:C	27:Z2:551:ASN:HA	2.25	0.61
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CG	2.35	0.61
27:Z2:250:ILE:O	27:Z2:254:GLN:HG2	2.00	0.61
27:Z2:263:TRP:CZ3	27:Z2:265:SER:HB3	2.32	0.61
1:A3:1091:VAL:CG1	4:D3:1100:PRO:CG	2.79	0.61
1:A3:1223:GLU:CB	1:A4:648:TYR:CD2	0.74	0.61
1:A4:833:VAL:HG21	1:A4:850:PRO:HD2	1.81	0.61
6:F1:142:ALA:CB	9:I1:1395:LEU:CG	2.74	0.61
6:F2:330:GLU:N	6:F2:330:GLU:OE1	2.32	0.61
9:I1:911:PRO:CB	13:M1:541:LEU:HD21	2.26	0.61
9:I1:1051:LYS:C	14:N1:293:LYS:HZ3	2.07	0.61
9:I1:1433:THR:HG21	10:J1:270:ARG:HD3	1.82	0.61
9:I2:961:ARG:HG3	16:P3:155:GLU:N	2.16	0.61
9:I2:1028:CYS:N	13:M3:612:PRO:O	2.33	0.61
9:I2:1034:ASP:OD2	13:M3:622:VAL:CG2	2.48	0.61
9:I2:1098:LEU:CA	15:O3:269:ILE:HA	2.29	0.61
13:M3:476:THR:HG21	14:N4:323:ARG:CD	2.30	0.61
17:Q1:598:ILE:CB	17:Q1:636:ILE:HD13	2.24	0.61
17:Q1:971:ILE:HD11	17:Q1:984:PHE:CD2	2.35	0.61
17:Q2:72:LEU:CD1	17:Q2:110:ILE:HG22	2.29	0.61
17:Q2:341:ASP:HB3	17:Q2:404:MET:O	2.01	0.61
18:R1:402:GLY:N	18:R1:444:ALA:HB3	2.08	0.61
18:R1:621:GLN:HB3	18:R1:670:LYS:CE	2.31	0.61
19:R2:213:CYS:SG	20:S2:332:ARG:NH1	2.73	0.61
20:S1:300:LEU:HD23	20:S1:388:LEU:HD21	1.82	0.61
22:U1:289:GLN:NE2	25:X1:794:ILE:HA	2.14	0.61
25:X1:640:LEU:CD1	26:Y1:1218:PHE:CZ	2.77	0.61
25:X2:694:ASP:CA	27:Z2:432:ASN:N	2.63	0.61
25:X2:695:GLN:HE21	27:Z2:429:ILE:CG2	2.08	0.61
25:X2:700:ILE:CD1	26:Y2:1298:TYR:HD1	2.07	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:HZ3	1.64	0.61
27:Z1:230:SER:C	27:Z1:253:LEU:CD2	2.64	0.61
27:Z1:531:ILE:HD11	27:Z2:541:LYS:CG	2.31	0.61
27:Z2:85:ASP:HA	27:Z2:127:ILE:HG13	1.81	0.61
27:Z2:189:LYS:O	27:Z2:311:GLN:NE2	2.18	0.61
29:b1:78:TYR:CE1	29:b1:87:LEU:HD21	2.35	0.61
6:F1:138:ILE:HD13	9:I1:1388:GLU:O	2.00	0.61
6:F1:267:GLU:O	9:I1:1202:VAL:CG2	2.48	0.61
6:F1:1807:GLU:CA	14:N2:411:GLN:HE22	2.14	0.61
9:I1:915:ALA:CB	15:O1:196:SER:CA	2.43	0.61
9:I1:966:TRP:CE2	15:O1:183:VAL:HG11	2.28	0.61
9:I1:979:ALA:HB3	15:O1:179:LEU:HB2	1.83	0.61
9:I2:1162:TYR:HB3	15:O3:266:GLN:HE21	1.54	0.61
9:I2:1254:VAL:N	14:N3:409:ALA:C	2.59	0.61
17:Q1:814:LEU:HD12	17:Q1:815:VAL:CG1	2.30	0.61
24:W1:534:ASP:CG	24:W1:746:CYS:C	2.68	0.61
25:X2:692:LYS:O	27:Z2:431:TRP:HE3	1.74	0.61
25:X2:692:LYS:N	27:Z2:431:TRP:NE1	2.44	0.61
26:Y1:1453:PHE:HB2	27:Z1:349:VAL:HG11	1.83	0.61
26:Y2:1453:PHE:CD2	27:Z2:328:PHE:CE2	2.88	0.61
27:Z1:73:SER:O	27:Z1:73:SER:OG	2.18	0.61
27:Z1:395:LYS:HE2	27:Z2:267:PHE:H	1.64	0.61
27:Z1:635:ARG:O	27:Z1:639:LEU:HG	2.00	0.61
27:Z2:10:LEU:HD21	27:Z2:431:TRP:HH2	1.11	0.61
27:Z2:164:ILE:HD13	27:Z2:277:ARG:CZ	2.28	0.61
27:Z2:635:ARG:O	27:Z2:639:LEU:HG	2.00	0.61
1:A3:1091:VAL:HA	4:D3:1100:PRO:HG2	1.82	0.61
1:A4:1026:PRO:HB3	4:D3:670:ASP:HB2	1.82	0.61
9:I2:842:ASN:C	15:O3:191:ARG:HH22	2.08	0.61
9:I2:909:ARG:HB3	13:M3:580:LYS:HE3	1.82	0.61
9:I2:977:ASN:C	15:O3:174:LEU:O	2.43	0.61
9:I2:1030:ARG:H	13:M3:613:ASP:N	1.94	0.61
9:I2:1035:GLN:HB3	16:P3:147:LEU:HB2	1.83	0.61
10:J2:248:VAL:HG13	14:N3:428:ASP:OD2	2.00	0.61
17:Q1:798:LYS:HZ1	17:Q1:822:ASP:HB3	1.63	0.61
17:Q1:1034:LYS:HD2	17:Q1:1034:LYS:O	2.01	0.61
17:Q2:134:VAL:HG12	17:Q2:135:ALA:N	2.16	0.61
17:Q2:194:HIS:HB3	17:Q2:242:LEU:HD21	1.81	0.61
17:Q2:805:ALA:CB	17:Q2:815:VAL:HG11	2.30	0.61
17:Q2:814:LEU:HD12	17:Q2:815:VAL:CG1	2.30	0.61
17:Q2:999:LEU:HD13	17:Q2:999:LEU:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:539:LEU:HD22	18:R1:658:LEU:HD22	1.82	0.61
19:R2:538:LEU:CA	19:R2:546:LEU:HD11	2.30	0.61
26:Y1:1298:TYR:HB2	27:Z1:588:TRP:CZ3	2.36	0.61
26:Y2:1410:GLN:H	27:Z2:711:LYS:NZ	1.97	0.61
27:Z1:437:LEU:CG	27:Z1:450:ILE:CD1	2.39	0.61
27:Z2:12:ILE:HG21	27:Z2:46:TYR:HD2	1.64	0.61
27:Z2:57:LEU:HD22	27:Z2:109:PHE:HE2	1.60	0.61
27:Z2:679:GLU:N	27:Z2:679:GLU:HB2	2.15	0.61
29:b1:15:ASP:O	29:b1:15:ASP:OD1	2.18	0.61
29:b2:55:ASN:HD21	29:b2:90:LYS:CG	2.13	0.61
29:b2:78:TYR:OH	29:b2:80:TYR:OH	2.09	0.61
1:A2:862:LEU:HD11	1:A2:904:GLN:HB3	1.83	0.61
1:A2:1224:PRO:O	1:A1:598:VAL:HG21	2.00	0.61
1:A3:1221:ILE:CG1	1:A4:592:ASP:O	2.47	0.61
9:I1:754:ARG:N	13:M1:556:MET:CE	2.60	0.61
9:I1:1455:ARG:O	9:I1:1459:ASN:ND2	2.33	0.61
9:I2:900:ARG:N	13:M3:584:GLN:CD	2.57	0.61
9:I2:976:ARG:HA	14:N3:296:GLY:O	1.99	0.61
9:I2:1030:ARG:N	13:M3:612:PRO:O	2.29	0.61
9:I2:1102:GLN:CD	15:O3:269:ILE:C	2.68	0.61
17:Q1:383:LEU:N	17:Q1:508:ASN:HA	2.15	0.61
17:Q1:538:ILE:HG21	17:Q1:567:PHE:CZ	2.35	0.61
17:Q1:666:LYS:O	17:Q1:670:THR:HG23	2.00	0.61
17:Q1:703:THR:HA	17:Q1:707:PRO:CG	2.30	0.61
17:Q1:923:HIS:HA	17:Q1:926:VAL:CG1	2.30	0.61
17:Q2:538:ILE:HD13	17:Q2:567:PHE:HE1	1.60	0.61
17:Q2:584:LYS:HE2	17:Q2:708:TRP:CH2	2.35	0.61
18:R1:213:CYS:SG	20:S1:332:ARG:NH1	2.73	0.61
22:U1:293:GLN:OE1	26:Y1:1367:LYS:HE3	1.91	0.61
22:U1:294:VAL:O	27:Z1:658:LEU:HD21	1.89	0.61
23:V2:170:ASN:O	23:V2:174:GLU:HG3	2.00	0.61
26:Y2:1334:LEU:HD21	27:Z1:110:GLN:HG2	1.80	0.61
27:Z2:630:TRP:CD1	27:Z2:634:ILE:HD11	2.32	0.61
1:A3:1400:SER:CB	4:D3:869:THR:O	2.48	0.61
6:F1:135:VAL:HG11	9:I1:1336:MET:HG3	1.36	0.61
9:I1:904:GLU:OE2	13:M1:577:LEU:CD1	2.49	0.61
9:I1:917:TYR:N	15:O1:195:LEU:HD12	2.13	0.61
9:I2:806:VAL:HG13	15:O3:247:TRP:HB2	0.63	0.61
17:Q1:291:ILE:HD11	17:Q1:311:ASN:HD22	1.66	0.61
17:Q1:805:ALA:CB	17:Q1:815:VAL:HG11	2.30	0.61
17:Q2:618:LEU:O	17:Q2:618:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:646:PHE:CE2	17:Q2:669:VAL:HB	2.36	0.61
17:Q2:671:ASN:O	17:Q2:675:LEU:HG	2.01	0.61
17:Q2:923:HIS:HA	17:Q2:926:VAL:CG1	2.30	0.61
19:R2:625:LYS:HA	19:R2:628:PHE:CE1	2.35	0.61
25:X1:704:GLN:CD	27:Z1:598:LEU:CD1	2.73	0.61
25:X2:700:ILE:C	26:Y2:1298:TYR:OH	2.42	0.61
26:Y2:1211:LEU:HB2	26:Y2:1214:ILE:HD12	1.82	0.61
26:Y2:1362:LEU:HD13	26:Y2:1387:LYS:HE3	1.79	0.61
27:Z1:133:HIS:HE1	27:Z1:211:PHE:O	1.83	0.61
27:Z1:141:CYS:SG	27:Z1:213:PRO:HB3	2.41	0.61
27:Z1:263:TRP:CZ3	27:Z1:265:SER:HB3	2.32	0.61
1:A2:1277:TRP:HB3	1:A1:642:ARG:HH12	1.65	0.61
1:A3:1221:ILE:CD1	1:A4:596:ARG:NE	2.63	0.61
6:F1:166:THR:CG2	9:I1:1330:PHE:HE1	2.14	0.61
6:F1:982:PRO:HG3	9:I1:1455:ARG:HB3	1.81	0.61
7:G1:249:ASP:C	13:M2:595:MET:HE3	1.93	0.61
9:I1:754:ARG:N	13:M1:556:MET:HE2	1.99	0.61
9:I1:966:TRP:CD1	15:O1:183:VAL:HG12	2.35	0.61
9:I1:1116:ASP:OD1	10:J1:241:THR:HG23	2.00	0.61
9:I1:1668:HIS:CD2	9:I2:1670:GLY:HA3	2.36	0.61
9:I2:1035:GLN:CD	16:P3:142:LEU:O	2.44	0.61
9:I2:1455:ARG:O	9:I2:1459:ASN:ND2	2.33	0.61
17:Q1:332:LYS:HE3	17:Q1:334:TRP:CE2	2.35	0.61
17:Q1:509:ALA:HA	17:Q1:516:LEU:CD1	2.12	0.61
17:Q1:615:GLU:CA	17:Q1:645:ILE:HG12	2.31	0.61
17:Q1:837:ASN:HA	17:Q1:842:GLU:CB	2.31	0.61
17:Q1:942:ASN:O	17:Q1:946:LYS:HG3	2.00	0.61
17:Q1:999:LEU:HD13	17:Q1:999:LEU:O	2.00	0.61
17:Q2:467:VAL:HG13	17:Q2:475:LEU:HD13	1.83	0.61
17:Q2:870:VAL:O	17:Q2:873:GLN:HG2	2.01	0.61
20:S2:519:LEU:O	20:S2:529:ASN:ND2	2.34	0.61
25:X1:658:TYR:CE2	25:X1:662:ILE:CD1	2.77	0.61
25:X2:697:LEU:CA	27:Z2:432:ASN:ND2	2.64	0.61
25:X2:699:TYR:CE1	27:Z2:49:LEU:CD2	2.48	0.61
25:X2:699:TYR:CD2	27:Z2:49:LEU:CD1	2.70	0.61
26:Y1:1230:GLU:HG3	26:Y1:1233:ARG:HH22	1.57	0.61
27:Z1:218:LEU:HB3	27:Z1:223:LEU:HG	1.83	0.61
27:Z1:328:PHE:CE1	27:Z1:330:ASP:HB2	2.35	0.61
27:Z2:314:ILE:HG22	27:Z2:326:LEU:HD12	1.79	0.61
27:Z2:328:PHE:CE1	27:Z2:330:ASP:HB2	2.35	0.61
28:a1:1040:ARG:N	28:a1:1041:PRO:HD3	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1224:PRO:HB3	1:A4:591:ASP:O	2.01	0.61
6:F1:272:GLU:HB3	9:I1:1209:THR:N	2.12	0.61
6:F1:1263:MET:O	15:O2:251:ILE:HG21	1.99	0.61
7:G2:254:ASN:CB	15:O4:256:TYR:HB2	2.31	0.61
9:I1:981:VAL:HG11	15:O1:176:ARG:CD	2.31	0.61
9:I1:1304:ASN:CG	15:O1:262:ASP:OD1	2.43	0.61
9:I2:408:PRO:O	9:I2:409:SER:OG	2.16	0.61
17:Q1:443:TRP:CD1	17:Q1:504:PHE:CG	2.89	0.61
17:Q1:532:LYS:CB	17:Q1:581:PRO:HD3	2.30	0.61
17:Q1:825:ASP:C	17:Q1:828:THR:H	2.09	0.61
17:Q1:915:GLU:HG3	17:Q1:919:GLU:HB2	1.83	0.61
17:Q2:494:VAL:O	17:Q2:498:VAL:HG12	2.01	0.61
17:Q2:933:LEU:HD23	19:R2:711:LEU:CB	2.31	0.61
24:W1:400:LYS:HE2	24:W1:716:GLU:CB	2.28	0.61
24:W1:403:ASP:CB	24:W1:723:PHE:CB	2.79	0.61
24:W2:829:SER:HA	24:W2:841:ALA:HB1	1.81	0.61
25:X1:701:GLU:O	25:X1:704:GLN:HB2	2.01	0.61
25:X2:686:ALA:C	27:Z2:8:SER:HB2	2.24	0.61
26:Y1:1294:LYS:HE2	27:Z1:588:TRP:HD1	1.59	0.61
26:Y2:1118:ALA:C	29:b2:71:HIS:NE2	2.59	0.61
26:Y2:1453:PHE:HD2	27:Z2:328:PHE:CE2	2.19	0.61
27:Z1:126:SER:CA	27:Z1:147:GLU:OE2	2.49	0.61
27:Z1:207:ALA:HB2	27:Z1:285:PHE:CZ	2.36	0.61
27:Z1:252:GLN:CA	27:Z1:335:MET:HE3	2.30	0.61
27:Z2:363:LEU:CD1	27:Z2:373:LEU:CD2	2.32	0.61
29:b1:69:VAL:HG12	29:b2:58:HIS:HB3	1.83	0.61
29:b2:76:PHE:CE1	29:b2:89:PHE:HB2	2.31	0.61
1:A2:1277:TRP:CD1	1:A1:642:ARG:HH12	2.18	0.60
1:A3:1223:GLU:HB2	1:A4:648:TYR:CD2	0.31	0.60
1:A3:1272:GLY:HA2	1:A4:727:ASN:HB3	1.82	0.60
1:A4:1048:ARG:HH12	4:D4:1095:ARG:NH1	1.98	0.60
4:D1:673:LEU:CD2	1:A1:1094:ILE:HG21	2.31	0.60
9:I1:702:GLN:HG3	13:M1:553:ALA:HB1	1.83	0.60
9:I1:919:ALA:O	15:O1:191:ARG:NE	2.34	0.60
9:I1:1048:GLU:OE1	15:O1:168:ALA:CA	2.49	0.60
9:I2:527:THR:O	9:I2:531:ASN:ND2	2.34	0.60
9:I2:925:LEU:CG	15:O3:186:PHE:HB3	2.13	0.60
9:I2:961:ARG:HD2	16:P3:157:GLU:HG2	1.83	0.60
9:I2:963:LEU:N	16:P3:151:LYS:CD	2.64	0.60
9:I2:976:ARG:CZ	16:P3:141:ALA:CB	2.79	0.60
17:Q1:60:VAL:HG23	17:Q1:68:ILE:CD1	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:104:LYS:HA	17:Q1:123:PRO:HD2	1.83	0.60
17:Q1:264:ASN:CB	17:Q1:289:LYS:HB2	2.29	0.60
17:Q1:305:THR:HG22	17:Q1:306:LYS:N	2.16	0.60
17:Q1:341:ASP:HB3	17:Q1:404:MET:O	2.01	0.60
17:Q1:1035:LYS:HE3	17:Q1:1083:LEU:HD13	1.80	0.60
17:Q2:543:GLY:C	17:Q2:637:ASN:HD21	2.08	0.60
17:Q2:599:LYS:HD2	17:Q2:599:LYS:C	2.26	0.60
17:Q2:646:PHE:CZ	17:Q2:669:VAL:HG12	2.36	0.60
17:Q2:671:ASN:HA	17:Q2:743:LEU:HD11	1.83	0.60
17:Q2:718:ILE:HG22	17:Q2:722:PHE:CE1	2.35	0.60
17:Q2:825:ASP:C	17:Q2:828:THR:H	2.09	0.60
19:R2:621:GLN:HB3	19:R2:670:LYS:CE	2.31	0.60
25:X1:640:LEU:HD13	26:Y1:1218:PHE:CE1	2.34	0.60
25:X1:726:VAL:C	25:X1:727:SER:CB	2.52	0.60
25:X1:776:PHE:CE2	26:Y1:1369:PHE:CE1	2.89	0.60
26:Y2:1238:PHE:HE1	27:Z2:557:GLN:OE1	1.75	0.60
26:Y2:1334:LEU:CD1	27:Z1:108:ALA:H	2.00	0.60
26:Y2:1368:LEU:HB3	26:Y2:1382:VAL:O	1.98	0.60
27:Z1:395:LYS:NZ	27:Z2:267:PHE:CB	1.72	0.60
27:Z1:401:ASP:OD1	27:Z2:260:HIS:O	2.17	0.60
27:Z1:580:LYS:O	27:Z1:584:GLN:HG3	2.01	0.60
27:Z2:126:SER:CA	27:Z2:147:GLU:OE2	2.49	0.60
6:F1:982:PRO:CG	9:I1:1455:ARG:HB3	2.31	0.60
6:F1:1265:GLN:CA	15:O2:252:VAL:CG2	2.80	0.60
6:F2:139:GLN:HE22	9:I2:1337:ALA:CA	1.94	0.60
6:F2:1267:ARG:NH1	15:O4:262:ASP:HB3	2.05	0.60
9:I1:917:TYR:O	15:O1:190:ARG:O	2.16	0.60
10:J1:249:ASP:CA	15:O1:272:SER:C	2.72	0.60
10:J1:250:THR:HB	15:O1:276:GLY:O	2.01	0.60
17:Q1:288:ASN:ND2	17:Q1:332:LYS:HG2	2.16	0.60
17:Q2:98:LEU:HD23	17:Q2:98:LEU:C	2.26	0.60
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:CD	2.12	0.60
17:Q2:667:LEU:HD13	17:Q2:667:LEU:C	2.26	0.60
18:R1:631:ILE:HD12	18:R1:632:LYS:HE2	1.83	0.60
25:X1:790:ASN:CA	27:Z1:680:TRP:CZ2	2.82	0.60
25:X1:795:LYS:HZ3	27:Z1:666:GLU:CB	2.14	0.60
25:X1:815:GLU:CB	26:Y1:1402:LEU:CD2	2.43	0.60
25:X2:818:ILE:HD13	26:Y2:1405:GLN:HB2	1.82	0.60
26:Y1:1407:SER:CA	26:Y1:1410:GLN:HG2	2.27	0.60
26:Y1:1450:GLY:HA2	27:Z1:330:ASP:OD2	1.92	0.60
27:Z2:120:GLU:C	27:Z2:124:LYS:HE3	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:207:ALA:HB2	27:Z2:285:PHE:HZ	1.65	0.60
29:b1:78:TYR:OH	29:b1:80:TYR:CZ	2.54	0.60
1:A3:872:SER:O	4:D1:513:ASP:CG	2.44	0.60
1:A4:132:ASP:N	4:D3:1003:GLU:OE2	2.34	0.60
6:F1:1267:ARG:CG	15:O2:255:GLY:H	1.96	0.60
9:I1:921:GLU:N	15:O1:190:ARG:NH1	2.39	0.60
17:Q1:98:LEU:HD23	17:Q1:98:LEU:C	2.26	0.60
17:Q1:422:ASN:O	17:Q1:449:LEU:HD13	2.02	0.60
17:Q1:557:LEU:HG	17:Q1:560:ARG:HH11	1.66	0.60
17:Q1:646:PHE:CZ	17:Q1:669:VAL:HG12	2.36	0.60
17:Q1:650:LEU:HD11	17:Q1:666:LYS:HG2	1.83	0.60
17:Q1:1028:LEU:HB2	17:Q1:1029:LEU:HD12	1.82	0.60
17:Q2:455:ILE:HG23	17:Q2:467:VAL:HG22	1.83	0.60
17:Q2:1029:LEU:HD12	17:Q2:1029:LEU:N	2.16	0.60
17:Q2:1034:LYS:HD2	17:Q2:1034:LYS:O	2.01	0.60
18:R1:538:LEU:HD13	18:R1:546:LEU:CD1	2.31	0.60
18:R1:625:LYS:HA	18:R1:628:PHE:CE1	2.35	0.60
19:R2:538:LEU:HD13	19:R2:546:LEU:CD1	2.31	0.60
23:V1:240:PHE:O	23:V1:241:GLU:HG3	2.01	0.60
25:X1:753:GLU:HA	25:X1:756:ASN:ND2	2.16	0.60
25:X2:751:LEU:HD13	27:Z2:638:ILE:HD11	1.48	0.60
26:Y2:1431:MET:SD	26:Y2:1434:PHE:CE2	2.94	0.60
26:Y2:1453:PHE:HB2	27:Z2:349:VAL:HG11	1.83	0.60
27:Z1:282:GLN:C	27:Z1:282:GLN:N	2.53	0.60
27:Z2:207:ALA:HB2	27:Z2:285:PHE:CZ	2.36	0.60
27:Z2:304:THR:HG23	27:Z2:313:GLU:OE1	1.98	0.60
28:a2:1040:ARG:N	28:a2:1041:PRO:HD3	2.15	0.60
29:b1:54:GLY:O	29:b1:55:ASN:CA	2.49	0.60
29:b1:56:THR:HG21	29:b1:91:THR:CG2	2.31	0.60
7:G1:251:TYR:HE2	15:O2:244:GLU:CB	2.14	0.60
9:I1:421:SER:O	9:I1:425:HIS:ND1	2.33	0.60
9:I1:911:PRO:O	13:M1:545:GLU:HG3	2.00	0.60
9:I1:1311:LEU:HD22	15:O1:266:GLN:CG	2.30	0.60
9:I2:967:SER:HB2	16:P3:145:SER:CB	2.30	0.60
9:I2:1099:ARG:HA	15:O3:272:SER:HB3	1.74	0.60
17:Q1:134:VAL:HG12	17:Q1:135:ALA:N	2.16	0.60
17:Q1:449:LEU:HD23	17:Q1:453:ILE:HG21	1.82	0.60
17:Q1:555:GLN:HG2	17:Q1:556:HIS:HD2	1.67	0.60
17:Q1:647:LYS:HA	17:Q1:647:LYS:NZ	2.17	0.60
17:Q1:788:TRP:O	17:Q1:791:VAL:HG12	2.01	0.60
17:Q2:210:LEU:HD13	17:Q2:210:LEU:C	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:305:THR:HG22	17:Q2:306:LYS:N	2.16	0.60
17:Q2:670:THR:HG21	17:Q2:744:LYS:HZ1	1.67	0.60
19:R2:534:SER:CA	19:R2:546:LEU:HD22	2.30	0.60
22:U1:206:ALA:HA	27:Z1:665:ILE:CG1	2.30	0.60
25:X2:823:LYS:NZ	27:Z1:214:SER:O	2.34	0.60
27:Z1:138:ARG:HH11	27:Z1:138:ARG:HG3	1.65	0.60
27:Z2:204:ASP:CG	27:Z2:284:PRO:HB2	2.27	0.60
27:Z2:288:ASN:ND2	27:Z2:289:PRO:N	2.46	0.60
27:Z2:522:GLU:CA	27:Z2:523:ASN:HB3	2.32	0.60
27:Z2:580:LYS:O	27:Z2:584:GLN:HG3	2.02	0.60
29:b2:61:VAL:HG22	29:b2:86:PHE:HD1	1.67	0.60
9:I1:919:ALA:O	15:O1:191:ARG:CG	2.44	0.60
9:I1:925:LEU:CD2	15:O1:188:ALA:H	2.13	0.60
9:I1:1106:LYS:CB	13:M1:613:ASP:OD2	2.49	0.60
9:I2:981:VAL:CB	15:O3:171:ASP:O	2.49	0.60
9:I2:1034:ASP:OD2	13:M3:622:VAL:CB	2.50	0.60
17:Q1:350:SER:HA	17:Q1:363:LEU:CD2	2.30	0.60
17:Q1:494:VAL:O	17:Q1:498:VAL:HG12	2.01	0.60
17:Q1:584:LYS:NZ	17:Q1:590:LYS:HB2	2.15	0.60
17:Q1:584:LYS:HE2	17:Q1:708:TRP:CH2	2.36	0.60
17:Q1:870:VAL:O	17:Q1:873:GLN:HG2	2.01	0.60
17:Q2:288:ASN:ND2	17:Q2:332:LYS:HG2	2.16	0.60
17:Q2:455:ILE:HD12	17:Q2:467:VAL:HG22	1.84	0.60
18:R1:711:LEU:HA	18:R1:714:TYR:HD2	1.66	0.60
22:U1:299:GLU:HB2	27:Z1:652:GLN:C	2.23	0.60
25:X1:818:ILE:HD13	26:Y1:1405:GLN:HB2	1.82	0.60
25:X2:743:GLN:N	25:X2:743:GLN:CA	2.65	0.60
26:Y1:1453:PHE:HD2	27:Z1:328:PHE:CE2	2.19	0.60
27:Z1:13:PHE:CE1	27:Z1:445:LEU:CB	2.84	0.60
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CG	2.35	0.60
27:Z1:233:MET:O	27:Z1:236:SER:OG	2.13	0.60
29:b2:76:PHE:CE2	29:b2:87:LEU:CD1	2.77	0.60
1:A2:1222:ALA:HA	1:A1:599:ARG:C	2.23	0.60
9:I2:894:VAL:HB	13:M3:587:GLU:HG3	1.80	0.60
9:I2:1099:ARG:HG2	15:O3:271:GLU:HB3	1.84	0.60
17:Q1:455:ILE:HG23	17:Q1:467:VAL:HG22	1.84	0.60
17:Q1:718:ILE:HG22	17:Q1:722:PHE:CE1	2.35	0.60
17:Q2:423:ALA:HB1	17:Q2:447:VAL:O	2.01	0.60
17:Q2:538:ILE:HG21	17:Q2:567:PHE:CZ	2.36	0.60
17:Q2:647:LYS:HA	17:Q2:647:LYS:NZ	2.17	0.60
17:Q2:983:VAL:HG12	17:Q2:1104:ILE:HD12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:260:GLU:OE2	20:S1:318:HIS:NE2	2.29	0.60
19:R2:620:LEU:HD13	19:R2:620:LEU:C	2.27	0.60
19:R2:635:LEU:HD11	19:R2:655:ILE:HG21	1.84	0.60
23:V2:240:PHE:O	23:V2:241:GLU:HG3	2.01	0.60
24:W1:534:ASP:N	24:W1:746:CYS:O	2.34	0.60
25:X1:755:LEU:HD23	25:X1:758:LEU:HD12	1.83	0.60
25:X2:776:PHE:CE2	26:Y2:1369:PHE:CE1	2.89	0.60
26:Y1:1338:GLN:CB	27:Z1:630:TRP:CH2	2.84	0.60
26:Y1:1402:LEU:CA	26:Y1:1405:GLN:HG2	2.32	0.60
26:Y2:1338:GLN:CB	27:Z2:630:TRP:CH2	2.84	0.60
26:Y2:1402:LEU:CA	26:Y2:1405:GLN:HG2	2.31	0.60
27:Z1:27:PHE:HE2	27:Z1:36:VAL:HG21	1.26	0.60
27:Z2:34:ARG:HB3	27:Z2:45:TRP:CZ2	2.35	0.60
27:Z2:55:HIS:CE1	27:Z2:98:SER:HB2	2.35	0.60
27:Z2:187:PHE:CE1	27:Z2:194:LEU:HD13	2.36	0.60
27:Z2:282:GLN:C	27:Z2:282:GLN:N	2.53	0.60
29:b1:10:ILE:O	29:b1:79:PHE:CB	2.49	0.60
1:A1:862:LEU:HD11	1:A1:904:GLN:HB3	1.83	0.60
1:A2:1274:ASP:N	1:A1:727:ASN:HD21	1.98	0.60
1:A3:1201:ARG:NH2	1:A4:646:ILE:CG2	2.52	0.60
1:A3:1222:ALA:HB1	1:A4:598:VAL:CB	2.31	0.60
1:A3:1332:ARG:CZ	4:D3:899:THR:HG23	2.32	0.60
9:I2:806:VAL:CG1	15:O3:244:GLU:O	2.50	0.60
9:I2:892:HIS:C	13:M3:588:MET:HA	2.27	0.60
17:Q1:618:LEU:O	17:Q1:618:LEU:HD23	2.01	0.60
17:Q1:1029:LEU:HD12	17:Q1:1029:LEU:N	2.16	0.60
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CD2	2.85	0.60
25:X2:755:LEU:HD23	25:X2:758:LEU:HD12	1.83	0.60
27:Z1:41:ASN:HD22	27:Z1:60:SER:H	1.45	0.60
27:Z1:204:ASP:CG	27:Z1:284:PRO:HB2	2.27	0.60
27:Z1:439:LEU:HB3	27:Z1:446:THR:OG1	2.01	0.60
27:Z2:172:SER:OG	27:Z2:177:ALA:HB1	2.02	0.60
27:Z2:439:LEU:HB3	27:Z2:446:THR:OG1	2.01	0.60
1:A4:785:ILE:CD1	1:A4:825:ARG:HG2	2.31	0.60
9:I1:527:THR:O	9:I1:531:ASN:ND2	2.34	0.60
9:I1:1048:GLU:O	14:N1:293:LYS:HD2	2.00	0.60
9:I2:899:LEU:H	13:M3:584:GLN:HG3	1.53	0.60
9:I2:964:SER:CB	16:P3:149:ARG:CA	2.80	0.60
9:I2:988:GLU:N	9:I2:988:GLU:OE1	2.34	0.60
9:I2:1029:LEU:HD21	13:M3:613:ASP:OD2	2.02	0.60
17:Q1:242:LEU:O	17:Q1:243:LYS:HG3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:929:LEU:CD2	18:R1:714:TYR:CE1	2.74	0.60
17:Q1:983:VAL:HG12	17:Q1:1104:ILE:HD12	1.84	0.60
17:Q2:291:ILE:HD11	17:Q2:311:ASN:HD22	1.66	0.60
17:Q2:615:GLU:CA	17:Q2:645:ILE:HG12	2.31	0.60
17:Q2:788:TRP:O	17:Q2:791:VAL:HG12	2.01	0.60
20:S1:297:LEU:HD23	20:S1:300:LEU:HD12	1.84	0.60
22:U1:185:VAL:N	27:Z1:664:ARG:NH2	2.43	0.60
23:V2:534:ILE:O	23:V2:538:ILE:HG12	2.02	0.60
25:X1:648:LEU:HD13	27:Z2:547:VAL:CG1	2.32	0.60
25:X1:793:LEU:HD13	27:Z1:680:TRP:CD1	2.37	0.60
25:X2:800:HIS:HD2	27:Z2:694:ILE:CD1	2.12	0.60
26:Y1:1336:THR:HG22	26:Y1:1340:ARG:CD	2.27	0.60
27:Z1:351:ILE:HD12	27:Z1:389:TRP:CH2	2.37	0.60
27:Z2:359:GLU:OE1	27:Z2:361:LYS:HE2	2.01	0.60
1:A2:1328:ARG:HH22	4:D1:898:ASP:HB2	1.67	0.60
1:A3:1223:GLU:CB	1:A4:648:TYR:CD1	2.72	0.60
6:F2:137:ASN:C	9:I2:1391:THR:HB	2.21	0.60
7:G1:252:LEU:HD23	15:O2:244:GLU:CB	2.31	0.60
9:I1:1050:SER:O	16:P1:141:ALA:HB2	1.78	0.60
9:I2:914:ASN:HD21	15:O3:191:ARG:HE	1.49	0.60
9:I2:1048:GLU:HG2	14:N3:289:PHE:CD1	2.37	0.60
9:I2:1255:HIS:ND1	9:I2:1255:HIS:O	2.35	0.60
17:Q1:427:THR:HG22	17:Q1:428:GLN:N	2.17	0.60
17:Q1:467:VAL:HG12	17:Q1:475:LEU:HB2	1.84	0.60
17:Q1:642:PHE:O	17:Q1:645:ILE:HG23	2.02	0.60
17:Q2:625:GLN:HG2	17:Q2:626:ASN:N	2.17	0.60
17:Q2:1080:SER:O	17:Q2:1084:LEU:HD13	2.02	0.60
18:R1:635:LEU:HD11	18:R1:655:ILE:HG21	1.84	0.60
18:R1:678:LEU:HG	18:R1:679:LYS:N	2.17	0.60
18:R1:689:ALA:O	18:R1:693:LEU:HG	2.01	0.60
25:X1:800:HIS:CE1	27:Z1:691:SER:HG	2.13	0.60
25:X2:753:GLU:HA	25:X2:756:ASN:ND2	2.17	0.60
26:Y1:1345:LEU:HD21	26:Y1:1348:LYS:HZ3	1.62	0.60
27:Z1:187:PHE:CE1	27:Z1:194:LEU:HD13	2.37	0.60
27:Z2:294:LEU:HD21	27:Z2:353:ARG:CZ	2.26	0.60
1:A4:862:LEU:HD11	1:A4:904:GLN:HB3	1.83	0.60
6:F2:141:ALA:HB2	9:I2:1391:THR:OG1	2.02	0.60
9:I1:902:GLN:CD	15:O1:205:ARG:HE	2.05	0.60
9:I1:976:ARG:N	14:N1:301:LEU:CD1	2.65	0.60
9:I1:988:GLU:N	9:I1:988:GLU:OE1	2.34	0.60
9:I2:843:GLU:OE1	15:O3:191:ARG:CG	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:914:ASN:C	15:O3:194:GLU:N	2.59	0.60
9:I2:1163:LEU:N	15:O3:266:GLN:NE2	2.49	0.60
9:I2:1487:ASP:OD1	9:I2:1488:THR:N	2.35	0.60
17:Q1:423:ALA:HB1	17:Q1:447:VAL:O	2.01	0.60
17:Q1:696:LEU:HD13	17:Q1:696:LEU:C	2.27	0.60
17:Q1:704:SER:C	17:Q1:707:PRO:HD2	2.27	0.60
17:Q1:784:ASN:HA	17:Q1:787:ASP:OD2	2.02	0.60
17:Q1:816:GLN:OE1	17:Q1:849:GLU:HG3	2.02	0.60
17:Q2:540:HIS:HD2	17:Q2:544:LYS:HD2	1.67	0.60
17:Q2:583:LEU:CD2	17:Q2:587:LEU:HD12	2.32	0.60
17:Q2:915:GLU:HG3	17:Q2:919:GLU:HB2	1.83	0.60
17:Q2:922:LEU:CD1	19:R2:688:LEU:HB3	2.32	0.60
19:R2:701:ILE:HG22	19:R2:705:PHE:CE1	2.35	0.60
20:S1:525:ASP:O	20:S1:528:LEU:HB2	2.02	0.60
23:V2:536:LYS:O	23:V2:540:THR:OG1	2.20	0.60
25:X1:648:LEU:CD1	27:Z2:547:VAL:CG1	2.79	0.60
26:Y2:1317:TYR:CD2	27:Z1:48:VAL:O	2.55	0.60
26:Y2:1342:GLN:CG	27:Z2:630:TRP:CH2	2.85	0.60
27:Z1:129:LYS:HE3	27:Z1:185:LEU:HD12	0.60	0.60
27:Z1:241:THR:CG2	27:Z1:246:LYS:HE2	2.24	0.60
27:Z2:41:ASN:HD22	27:Z2:60:SER:H	1.45	0.60
27:Z2:314:ILE:CD1	27:Z2:386:PHE:CE2	2.69	0.60
29:b1:46:LYS:HE2	29:b1:59:VAL:H	1.67	0.60
29:b1:76:PHE:CD1	29:b1:89:PHE:HB2	2.37	0.60
29:b2:27:ILE:CG2	29:b2:45:VAL:HG22	2.31	0.60
29:b2:27:ILE:HG23	29:b2:48:GLN:OE1	2.02	0.60
9:I2:902:GLN:O	13:M3:577:LEU:CA	2.43	0.59
9:I2:1031:ALA:CB	13:M3:621:ARG:HH12	1.95	0.59
9:I2:1106:LYS:HA	15:O3:277:GLU:HB2	1.84	0.59
17:Q1:467:VAL:HG13	17:Q1:475:LEU:HD13	1.82	0.59
17:Q1:671:ASN:O	17:Q1:675:LEU:HG	2.01	0.59
17:Q1:939:LEU:HD12	17:Q1:939:LEU:H	1.67	0.59
17:Q1:980:ILE:O	17:Q1:980:ILE:HD13	2.02	0.59
17:Q2:467:VAL:HG12	17:Q2:475:LEU:HB2	1.84	0.59
17:Q2:700:GLU:HB3	17:Q2:758:ILE:HG23	1.84	0.59
18:R1:625:LYS:O	18:R1:629:GLU:HB2	2.02	0.59
19:R2:631:ILE:HD12	19:R2:632:LYS:HE2	1.83	0.59
20:S2:297:LEU:HD23	20:S2:300:LEU:HD12	1.84	0.59
22:U1:207:LYS:HD2	27:Z1:666:GLU:HB2	1.83	0.59
23:V1:534:ILE:O	23:V1:538:ILE:HG12	2.02	0.59
24:W1:596:PHE:CZ	24:W1:704:SER:HA	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W2:609:GLY:O	24:W2:613:ILE:HG22	2.02	0.59
25:X2:701:GLU:O	25:X2:704:GLN:HB2	2.01	0.59
26:Y2:1321:MET:HG2	27:Z1:47:ASN:O	1.92	0.59
26:Y2:1332:LYS:HD3	27:Z1:95:TRP:C	2.26	0.59
27:Z1:227:LEU:HD11	27:Z1:260:HIS:HB2	1.84	0.59
27:Z1:297:TYR:CZ	27:Z1:321:ASP:CG	2.74	0.59
27:Z2:30:GLN:O	27:Z2:31:ASN:HB2	2.01	0.59
29:b2:55:ASN:ND2	29:b2:90:LYS:HG3	2.15	0.59
1:A2:1226:LEU:HA	1:A1:647:GLU:HG3	1.83	0.59
1:A3:862:LEU:HD11	1:A3:904:GLN:HB3	1.83	0.59
9:I1:916:ALA:CB	13:M1:534:GLN:NE2	2.61	0.59
9:I1:966:TRP:CB	15:O1:176:ARG:O	2.48	0.59
9:I1:1048:GLU:OE1	15:O1:168:ALA:C	2.45	0.59
9:I2:892:HIS:NE2	13:M3:591:ASP:O	2.25	0.59
9:I2:894:VAL:C	13:M3:587:GLU:HG2	2.27	0.59
9:I2:960:SER:CB	16:P3:154:ALA:CB	2.80	0.59
9:I2:964:SER:N	16:P3:152:LYS:HE2	2.17	0.59
9:I2:1168:ALA:HB1	15:O3:269:ILE:HG22	1.82	0.59
17:Q1:509:ALA:HB1	17:Q1:573:LYS:HZ1	1.67	0.59
17:Q1:585:LEU:O	17:Q1:585:LEU:HD23	2.02	0.59
17:Q1:916:SER:HB2	17:Q1:919:GLU:CG	2.31	0.59
17:Q1:1094:TYR:O	17:Q1:1097:GLU:HG2	2.02	0.59
17:Q2:599:LYS:CD	17:Q2:603:ILE:HD11	2.32	0.59
17:Q2:642:PHE:O	17:Q2:645:ILE:HG23	2.03	0.59
17:Q2:704:SER:C	17:Q2:707:PRO:HD2	2.27	0.59
17:Q2:784:ASN:HA	17:Q2:787:ASP:OD2	2.02	0.59
20:S2:152:ALA:HB1	20:S2:160:LEU:CD1	2.32	0.59
22:U1:206:ALA:N	27:Z1:668:GLU:CD	2.60	0.59
22:U1:297:LEU:C	27:Z1:654:ASP:CA	2.67	0.59
23:V2:258:LEU:HD22	23:V2:292:LEU:HD22	1.85	0.59
24:W1:406:ARG:CD	24:W1:720:PHE:HA	2.31	0.59
25:X2:691:ASN:HB3	27:Z2:431:TRP:NE1	1.97	0.59
25:X2:721:LEU:HD13	27:Z2:612:ILE:HD12	1.81	0.59
26:Y1:1342:GLN:HG3	27:Z1:630:TRP:CH2	2.37	0.59
27:Z1:165:VAL:HG12	27:Z1:168:LYS:CG	2.31	0.59
27:Z1:328:PHE:CE1	27:Z1:349:VAL:HB	2.35	0.59
27:Z2:342:TYR:CE2	27:Z2:344:TYR:CE2	2.75	0.59
27:Z2:359:GLU:HB3	27:Z2:361:LYS:HE3	1.84	0.59
29:b2:71:HIS:HB3	29:b2:76:PHE:CE1	2.37	0.59
6:F2:230:GLU:N	6:F2:230:GLU:OE1	2.35	0.59
7:G1:249:ASP:N	15:O2:247:TRP:HZ2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:911:PRO:N	13:M1:545:GLU:HG2	2.10	0.59
9:I1:913:ALA:O	13:M1:541:LEU:HD22	2.01	0.59
9:I1:963:LEU:CG	15:O1:182:THR:HG21	2.30	0.59
9:I1:1051:LYS:H	14:N1:293:LYS:CD	1.96	0.59
10:J1:249:ASP:N	15:O1:272:SER:O	2.35	0.59
17:Q1:194:HIS:HB3	17:Q1:242:LEU:HD21	1.81	0.59
17:Q1:625:GLN:HG2	17:Q1:626:ASN:N	2.16	0.59
17:Q2:194:HIS:CB	17:Q2:242:LEU:HD22	2.33	0.59
17:Q2:284:TYR:CD1	17:Q2:347:PHE:HZ	2.21	0.59
17:Q2:404:MET:HG3	17:Q2:405:GLU:N	2.13	0.59
17:Q2:422:ASN:O	17:Q2:449:LEU:HD13	2.02	0.59
17:Q2:427:THR:HG22	17:Q2:428:GLN:N	2.17	0.59
17:Q2:583:LEU:HD21	17:Q2:587:LEU:HD12	1.85	0.59
17:Q2:585:LEU:O	17:Q2:585:LEU:HD23	2.02	0.59
17:Q2:696:LEU:HD13	17:Q2:696:LEU:C	2.27	0.59
17:Q2:718:ILE:HD12	17:Q2:718:ILE:N	2.18	0.59
19:R2:13:THR:O	19:R2:17:ASP:N	2.24	0.59
20:S2:574:THR:CB	21:T2:86:ASN:CB	2.80	0.59
22:U1:297:LEU:CA	27:Z1:653:GLN:C	2.75	0.59
24:W1:245:ILE:HB	24:W1:255:GLN:HB2	1.84	0.59
25:X1:666:ASP:OD1	27:Z1:556:GLN:NE2	2.25	0.59
25:X2:680:TYR:CZ	27:Z2:439:LEU:CD1	2.84	0.59
25:X2:726:VAL:O	25:X2:727:SER:CA	2.51	0.59
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CG	2.37	0.59
26:Y2:1294:LYS:CD	27:Z2:588:TRP:CG	2.79	0.59
27:Z1:30:GLN:O	27:Z1:31:ASN:HB2	2.02	0.59
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:CB	1.98	0.59
27:Z1:642:ASN:ND2	27:Z1:646:HIS:HD1	2.01	0.59
27:Z1:678:ASN:CG	27:Z1:678:ASN:C	2.71	0.59
27:Z2:305:ILE:CG2	27:Z2:386:PHE:HZ	2.14	0.59
1:A3:1091:VAL:HG12	4:D3:1100:PRO:CG	2.28	0.59
6:F2:139:GLN:CB	9:I2:1340:LEU:CD2	2.77	0.59
7:G1:255:LEU:CA	15:O2:245:GLU:C	2.63	0.59
9:I1:896:PRO:HA	13:M1:580:LYS:HA	1.85	0.59
9:I1:912:VAL:CA	13:M1:541:LEU:HD23	2.32	0.59
9:I1:1048:GLU:CG	14:N1:293:LYS:NZ	2.61	0.59
9:I2:888:GLU:CA	13:M3:590:LYS:O	2.34	0.59
9:I2:899:LEU:HD12	13:M3:585:LEU:H	0.78	0.59
9:I2:911:PRO:HB2	15:O3:197:ARG:HD3	1.85	0.59
17:Q1:527:ILE:HD13	17:Q1:527:ILE:N	2.17	0.59
17:Q1:718:ILE:HD12	17:Q1:718:ILE:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:923:HIS:HA	17:Q1:926:VAL:HG12	1.85	0.59
17:Q1:1024:VAL:HG23	17:Q1:1025:ASP:N	2.17	0.59
17:Q1:1065:VAL:CA	17:Q1:1070:LEU:HD23	2.32	0.59
17:Q2:60:VAL:HG23	17:Q2:68:ILE:CD1	2.18	0.59
17:Q2:104:LYS:HA	17:Q2:123:PRO:HD2	1.83	0.59
17:Q2:923:HIS:O	17:Q2:926:VAL:HG13	2.03	0.59
17:Q2:939:LEU:HD12	17:Q2:939:LEU:H	1.68	0.59
17:Q2:1065:VAL:CA	17:Q2:1070:LEU:HD23	2.32	0.59
17:Q2:1094:TYR:O	17:Q2:1097:GLU:HG2	2.02	0.59
18:R1:707:SER:CA	18:R1:711:LEU:HD13	2.19	0.59
19:R2:558:ILE:CG2	19:R2:581:LEU:HD13	2.31	0.59
19:R2:620:LEU:HD12	19:R2:670:LYS:HD3	1.85	0.59
20:S1:152:ALA:HB1	20:S1:160:LEU:CD1	2.33	0.59
22:U1:207:LYS:N	27:Z1:665:ILE:H	2.01	0.59
25:X1:700:ILE:CB	26:Y1:1298:TYR:CD1	2.65	0.59
25:X1:789:GLU:HG3	25:X1:789:GLU:O	1.99	0.59
27:Z1:172:SER:OG	27:Z1:177:ALA:HB1	2.02	0.59
27:Z2:129:LYS:HE3	27:Z2:185:LEU:HD12	0.60	0.59
27:Z2:328:PHE:CE1	27:Z2:349:VAL:HB	2.35	0.59
27:Z2:383:GLN:HG3	27:Z2:417:ILE:CG1	2.32	0.59
27:Z2:643:SER:N	27:Z2:644:PHE:N	2.51	0.59
29:b2:28:SER:HB3	29:b2:86:PHE:CZ	2.37	0.59
1:A2:1220:PRO:C	1:A1:596:ARG:HA	2.26	0.59
1:A3:1402:ASP:C	4:D3:824:ARG:HD2	2.21	0.59
4:D1:673:LEU:HG	1:A1:1094:ILE:HG21	1.83	0.59
9:I1:1357:LYS:CE	15:O1:263:GLN:CA	2.80	0.59
9:I2:1026:TYR:OH	13:M3:608:LYS:CB	2.51	0.59
9:I2:1105:TRP:HE3	15:O3:273:ASP:CA	2.12	0.59
17:Q1:444:GLU:CD	17:Q1:507:ILE:C	2.69	0.59
17:Q1:960:ILE:HD13	17:Q1:1005:LEU:HD12	1.84	0.59
17:Q2:816:GLN:OE1	17:Q2:849:GLU:HG3	2.02	0.59
17:Q2:836:PHE:HD2	17:Q2:842:GLU:HG3	1.67	0.59
17:Q2:980:ILE:O	17:Q2:980:ILE:HD13	2.02	0.59
17:Q2:1065:VAL:HA	17:Q2:1070:LEU:HD23	1.85	0.59
18:R1:211:ILE:HG23	20:S1:321:VAL:HG11	1.85	0.59
18:R1:624:SER:CB	18:R1:667:LEU:HD23	2.33	0.59
19:R2:678:LEU:HG	19:R2:679:LYS:N	2.17	0.59
20:S2:525:ASP:O	20:S2:528:LEU:HB2	2.02	0.59
23:V1:258:LEU:HD22	23:V1:292:LEU:HD22	1.85	0.59
25:X1:658:TYR:CE2	27:Z1:549:ILE:HD13	2.35	0.59
25:X1:707:LEU:CD1	26:Y1:1306:ILE:CG1	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:637:LEU:N	27:Z2:528:PHE:HE1	2.00	0.59
26:Y1:1409:LEU:HA	26:Y1:1412:GLU:CG	2.33	0.59
26:Y1:1431:MET:SD	26:Y1:1434:PHE:CE2	2.94	0.59
26:Y2:1370:THR:HG21	27:Z2:662:LEU:HD21	1.82	0.59
27:Z1:252:GLN:CA	27:Z1:335:MET:SD	2.91	0.59
27:Z1:325:ILE:CG2	27:Z1:327:LEU:HD21	2.32	0.59
27:Z1:359:GLU:HB3	27:Z1:361:LYS:HE3	1.84	0.59
27:Z2:158:ASN:CB	27:Z2:161:GLU:CG	2.78	0.59
29:b2:69:VAL:CG2	29:b2:76:PHE:HZ	2.16	0.59
29:b2:72:GLU:HB3	29:b2:75:HIS:CD2	2.37	0.59
1:A2:1221:ILE:HD13	1:A1:596:ARG:CD	2.32	0.59
1:A2:1236:GLN:OE1	1:A1:587:VAL:CG1	2.50	0.59
6:F1:581:PHE:O	6:F1:585:THR:OG1	2.21	0.59
9:I1:900:ARG:HB3	13:M1:580:LYS:HG2	1.85	0.59
9:I1:1487:ASP:OD1	9:I1:1488:THR:N	2.35	0.59
9:I2:1106:LYS:HD3	15:O3:275:LEU:CD1	2.32	0.59
17:Q1:210:LEU:HD13	17:Q1:210:LEU:C	2.26	0.59
17:Q2:242:LEU:O	17:Q2:243:LYS:HG3	2.02	0.59
17:Q2:650:LEU:HD11	17:Q2:666:LYS:HG2	1.83	0.59
17:Q2:801:CYS:CB	17:Q2:818:LEU:HD12	2.33	0.59
17:Q2:923:HIS:HA	17:Q2:926:VAL:HG12	1.85	0.59
18:R1:533:LEU:HB3	18:R1:549:PHE:CE2	2.37	0.59
18:R1:620:LEU:HD13	18:R1:620:LEU:C	2.27	0.59
19:R2:533:LEU:HB3	19:R2:549:PHE:CE2	2.37	0.59
20:S1:426:TYR:O	20:S1:464:ARG:NH2	2.36	0.59
20:S1:567:LEU:CB	21:T1:84:GLU:O	2.49	0.59
25:X1:752:ASP:OD2	26:Y1:1345:LEU:HD11	2.02	0.59
25:X2:685:MET:HE3	27:Z2:13:PHE:HE2	1.51	0.59
25:X2:686:ALA:O	27:Z2:8:SER:OG	2.18	0.59
26:Y1:1370:THR:HG21	27:Z1:662:LEU:HD21	1.82	0.59
26:Y1:1386:ALA:CA	26:Y2:1357:ASN:HA	2.30	0.59
27:Z1:544:THR:C	27:Z2:558:PHE:HD2	2.10	0.59
27:Z2:314:ILE:HD13	27:Z2:326:LEU:HD21	1.85	0.59
27:Z2:679:GLU:N	27:Z2:679:GLU:C	2.59	0.59
1:A1:827:ILE:CB	1:A1:849:SER:HA	2.33	0.59
1:A3:1222:ALA:C	1:A4:648:TYR:OH	2.28	0.59
6:F1:230:GLU:N	6:F1:230:GLU:OE1	2.35	0.59
6:F1:267:GLU:CD	11:K1:638:PRO:CD	2.75	0.59
6:F2:136:ALA:HB1	9:I2:1392:VAL:HG21	1.85	0.59
9:I1:702:GLN:HG3	13:M1:553:ALA:CB	2.33	0.59
9:I1:1255:HIS:ND1	9:I1:1255:HIS:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:891:LEU:HD23	13:M3:587:GLU:HA	1.85	0.59
17:Q1:288:ASN:HA	17:Q1:333:ILE:CG2	2.32	0.59
17:Q1:362:ILE:C	17:Q1:362:ILE:HD12	2.28	0.59
17:Q1:386:PHE:HE2	17:Q1:566:ASN:OD1	1.71	0.59
17:Q1:455:ILE:HD12	17:Q1:467:VAL:HG22	1.84	0.59
17:Q1:667:LEU:HD13	17:Q1:667:LEU:C	2.27	0.59
17:Q2:416:ILE:CG1	17:Q2:427:THR:HB	2.33	0.59
17:Q2:798:LYS:HZ3	17:Q2:822:ASP:HB3	1.67	0.59
22:U1:248:LYS:HE3	25:X1:809:ASP:HB2	1.84	0.59
22:U1:289:GLN:HA	26:Y1:1372:LYS:C	2.27	0.59
23:V1:162:VAL:O	23:V1:166:ASP:HB3	2.03	0.59
23:V1:244:TYR:O	23:V1:248:LEU:HG	2.02	0.59
25:X2:774:ASN:HB2	25:X2:797:LEU:HD12	1.79	0.59
25:X2:820:SER:HA	27:Z1:273:GLN:N	2.18	0.59
27:Z1:218:LEU:HB2	27:Z1:263:TRP:HE1	1.68	0.59
27:Z2:93:VAL:O	27:Z2:93:VAL:HG13	1.99	0.59
27:Z2:123:PRO:N	27:Z2:124:LYS:N	2.50	0.59
27:Z2:145:LEU:HB2	27:Z2:185:LEU:HD11	1.85	0.59
27:Z2:164:ILE:CD1	27:Z2:277:ARG:HH12	2.09	0.59
27:Z2:383:GLN:CD	27:Z2:417:ILE:CG1	2.75	0.59
1:A1:827:ILE:HG23	1:A1:849:SER:CA	2.17	0.59
1:A2:785:ILE:CD1	1:A2:825:ARG:HG2	2.31	0.59
1:A2:1274:ASP:N	1:A1:642:ARG:NH1	2.50	0.59
1:A3:871:ASN:CG	4:D1:515:ASN:CG	2.71	0.59
1:A4:1094:ILE:CG2	4:D3:675:LEU:CD2	2.63	0.59
6:F1:267:GLU:O	9:I1:1202:VAL:CB	2.42	0.59
7:G2:253:SER:C	15:O4:249:ARG:O	2.46	0.59
9:I1:1036:PRO:O	15:O1:178:ASP:OD2	2.20	0.59
9:I2:809:HIS:CD2	15:O3:243:LEU:C	2.66	0.59
9:I2:891:LEU:N	13:M3:591:ASP:HB2	2.16	0.59
9:I2:892:HIS:CB	13:M3:591:ASP:CG	2.37	0.59
17:Q1:144:ALA:HA	17:Q1:234:ARG:HH22	1.68	0.59
17:Q1:288:ASN:C	17:Q1:333:ILE:HG22	2.28	0.59
17:Q1:456:ILE:CG1	17:Q1:468:LEU:HB2	2.33	0.59
17:Q1:583:LEU:CD2	17:Q1:587:LEU:HD12	2.32	0.59
17:Q1:651:ASN:O	17:Q1:654:VAL:HG22	2.03	0.59
17:Q1:749:LEU:HD11	17:Q1:807:PHE:CE1	2.38	0.59
17:Q2:362:ILE:C	17:Q2:362:ILE:HD12	2.28	0.59
17:Q2:610:LEU:HD21	17:Q2:613:ILE:HD12	1.85	0.59
17:Q2:1024:VAL:HG23	17:Q2:1025:ASP:N	2.17	0.59
18:R1:518:ILE:HG23	18:R1:518:ILE:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:689:ALA:O	19:R2:693:LEU:HG	2.01	0.59
25:X1:788:ASP:C	25:X1:792:GLN:HE21	2.11	0.59
25:X1:789:GLU:CD	27:Z1:680:TRP:CG	2.80	0.59
25:X2:770:ASN:OD1	25:X2:801:PHE:CD2	2.56	0.59
25:X2:800:HIS:CE1	27:Z2:691:SER:HG	2.12	0.59
26:Y1:1436:VAL:HG23	27:Z1:228:ASN:OD1	2.02	0.59
27:Z1:137:TYR:CB	27:Z1:215:VAL:HG12	2.32	0.59
27:Z1:143:VAL:CG2	27:Z1:211:PHE:HZ	2.06	0.59
27:Z1:158:ASN:CB	27:Z1:161:GLU:CG	2.78	0.59
27:Z1:282:GLN:HA	27:Z1:283:GLY:N	2.18	0.59
27:Z1:541:LYS:CB	27:Z2:550:HIS:C	2.39	0.59
1:A4:827:ILE:HG23	1:A4:849:SER:CA	2.17	0.59
1:A4:929:ASN:HD21	4:D3:468:LYS:CE	1.83	0.59
6:F1:171:PHE:O	6:F1:180:ARG:NH2	2.36	0.59
7:G1:251:TYR:HE2	15:O2:244:GLU:CA	2.13	0.59
9:I2:1160:ILE:HD13	15:O3:264:ILE:HA	1.85	0.59
13:M3:476:THR:CB	14:N4:323:ARG:HD3	2.32	0.59
17:Q1:382:ARG:NH2	17:Q1:516:LEU:HD11	2.17	0.59
17:Q1:416:ILE:CG1	17:Q1:427:THR:HB	2.33	0.59
17:Q1:583:LEU:HD21	17:Q1:587:LEU:HD12	1.84	0.59
17:Q1:671:ASN:HA	17:Q1:743:LEU:HD11	1.82	0.59
17:Q1:1062:VAL:HG12	17:Q1:1140:VAL:HG21	1.83	0.59
17:Q2:287:THR:O	17:Q2:333:ILE:HG21	2.03	0.59
17:Q2:871:LEU:O	17:Q2:871:LEU:HD23	2.02	0.59
17:Q2:1062:VAL:HG12	17:Q2:1140:VAL:HG21	1.83	0.59
26:Y2:1362:LEU:HA	26:Y2:1387:LYS:HD2	1.82	0.59
27:Z1:152:THR:OG1	27:Z1:154:PHE:HE1	1.81	0.59
27:Z2:141:CYS:SG	27:Z2:213:PRO:HB3	2.42	0.59
27:Z2:252:GLN:CA	27:Z2:335:MET:SD	2.90	0.59
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CE1	2.38	0.59
27:Z2:351:ILE:HD12	27:Z2:389:TRP:CH2	2.37	0.59
27:Z2:434:GLN:CB	27:Z2:580:LYS:HZ1	2.14	0.59
29:b1:56:THR:CG2	29:b1:91:THR:HG22	2.33	0.59
1:A3:1327:VAL:HA	4:D3:876:SER:HB3	1.83	0.59
1:A4:1048:ARG:NH1	4:D4:1095:ARG:NH1	2.51	0.59
6:F1:161:ALA:HB1	9:I1:1333:THR:C	2.23	0.59
9:I1:978:LYS:CE	15:O1:180:ASP:OD1	2.51	0.59
9:I1:1048:GLU:OE2	15:O1:167:ASN:C	2.14	0.59
9:I2:921:GLU:OE1	9:I2:921:GLU:N	2.35	0.59
9:I2:1255:HIS:HE1	14:N3:404:GLU:HA	1.66	0.59
9:I2:1308:THR:N	14:N3:413:VAL:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:361:TYR:O	17:Q1:511:PRO:CA	2.51	0.59
17:Q1:871:LEU:HD23	17:Q1:871:LEU:O	2.02	0.59
17:Q2:73:GLN:HG2	17:Q2:113:THR:HA	1.85	0.59
17:Q2:138:CYS:SG	17:Q2:166:ILE:HG12	2.43	0.59
17:Q2:173:ILE:HD13	17:Q2:175:TYR:OH	2.03	0.59
17:Q2:403:GLN:NE2	17:Q2:414:THR:HB	2.18	0.59
17:Q2:518:PRO:O	17:Q2:522:LEU:HG	2.03	0.59
17:Q2:527:ILE:HD13	17:Q2:527:ILE:N	2.17	0.59
17:Q2:557:LEU:HG	17:Q2:560:ARG:HH11	1.66	0.59
17:Q2:960:ILE:HD11	17:Q2:1005:LEU:CD1	2.32	0.59
19:R2:625:LYS:O	19:R2:629:GLU:HB2	2.02	0.59
21:T1:205:ASP:HB3	21:T1:227:GLN:HB3	1.85	0.59
21:T2:205:ASP:HB3	21:T2:227:GLN:HB3	1.85	0.59
22:U1:42:THR:O	22:U1:44:ASN:N	2.31	0.59
23:V1:344:ARG:NH2	25:X1:715:GLU:OE1	2.36	0.59
23:V1:536:LYS:O	23:V1:540:THR:OG1	2.20	0.59
25:X1:789:GLU:CD	25:X1:793:LEU:HD13	2.23	0.59
25:X2:777:ASN:HA	25:X2:793:LEU:CB	2.30	0.59
25:X2:820:SER:CA	27:Z1:273:GLN:N	2.64	0.59
26:Y1:1302:ASP:OD1	27:Z1:595:GLN:NE2	2.36	0.59
26:Y1:1367:LYS:O	26:Y1:1371:VAL:CG2	2.36	0.59
26:Y1:1409:LEU:C	27:Z1:711:LYS:CE	2.68	0.59
26:Y2:1332:LYS:HB2	27:Z1:97:TYR:CB	2.33	0.59
26:Y2:1342:GLN:HG3	27:Z2:630:TRP:CH2	2.37	0.59
26:Y2:1385:LEU:HD12	27:Z2:683:LEU:HD21	1.85	0.59
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CE1	2.38	0.59
27:Z1:314:ILE:HD13	27:Z1:326:LEU:HD21	1.85	0.59
1:A2:1228:TYR:CE1	1:A1:643:ALA:HB2	2.38	0.58
1:A2:1229:VAL:HG21	1:A1:639:ASN:O	1.94	0.58
1:A2:1237:LEU:HG	1:A1:588:SER:OG	2.00	0.58
1:A2:1328:ARG:CD	4:D1:976:ARG:CZ	2.67	0.58
1:A3:1401:VAL:O	4:D3:873:GLN:NE2	2.34	0.58
9:I1:978:LYS:CB	15:O1:180:ASP:HB3	2.11	0.58
9:I1:1050:SER:O	16:P1:141:ALA:CB	2.50	0.58
9:I1:1433:THR:HG21	10:J1:270:ARG:CD	2.33	0.58
9:I2:1028:CYS:HB3	13:M3:613:ASP:OD1	2.03	0.58
9:I2:1253:GLY:HA2	14:N3:410:MET:HB3	1.85	0.58
14:N3:264:ARG:HA	14:N4:334:LEU:HB3	1.85	0.58
17:Q1:194:HIS:CB	17:Q1:242:LEU:HD22	2.33	0.58
17:Q1:423:ALA:HB2	17:Q1:448:SER:HA	1.85	0.58
17:Q1:836:PHE:HD2	17:Q1:842:GLU:CG	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:836:PHE:HD2	17:Q1:842:GLU:HG3	1.67	0.58
17:Q1:958:LYS:O	17:Q1:958:LYS:HD2	2.02	0.58
17:Q2:509:ALA:CB	17:Q2:516:LEU:HD11	2.33	0.58
17:Q2:555:GLN:HG2	17:Q2:556:HIS:HD2	1.67	0.58
17:Q2:696:LEU:CD1	17:Q2:700:GLU:HG3	2.33	0.58
18:R1:435:PHE:O	18:R1:448:ILE:HG12	2.03	0.58
18:R1:711:LEU:CG	18:R1:714:TYR:HE2	2.16	0.58
19:R2:590:LEU:HD13	19:R2:590:LEU:O	2.04	0.58
23:V2:244:TYR:O	23:V2:248:LEU:HG	2.02	0.58
25:X1:655:PHE:CE1	27:Z1:545:LEU:HD13	2.37	0.58
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CD2	2.85	0.58
25:X1:821:ILE:CG2	26:Y1:1409:LEU:CD1	2.74	0.58
26:Y1:1429:LYS:NZ	26:Y1:1434:PHE:H	2.00	0.58
26:Y2:1236:ASP:C	26:Y2:1239:PHE:CD2	2.80	0.58
26:Y2:1302:ASP:OD1	27:Z2:595:GLN:NE2	2.36	0.58
26:Y2:1431:MET:CA	26:Y2:1434:PHE:CE2	2.74	0.58
27:Z1:12:ILE:HG21	27:Z1:46:TYR:HD2	1.64	0.58
27:Z2:218:LEU:HB2	27:Z2:263:TRP:HE1	1.67	0.58
27:Z2:263:TRP:HD1	27:Z2:270:VAL:CG2	2.16	0.58
27:Z2:381:ILE:HD11	27:Z2:420:ILE:HD13	1.85	0.58
1:A1:785:ILE:CD1	1:A1:825:ARG:HG2	2.31	0.58
1:A2:1277:TRP:CD1	1:A1:642:ARG:CZ	2.86	0.58
7:G2:254:ASN:HB3	15:O4:253:LEU:N	1.87	0.58
9:I1:896:PRO:HB3	13:M1:584:GLN:N	2.18	0.58
9:I1:965:ALA:HB3	15:O1:185:ALA:H	1.61	0.58
9:I2:963:LEU:C	16:P3:152:LYS:CG	2.57	0.58
9:I2:1103:LEU:HB2	13:M3:611:LYS:HZ2	1.57	0.58
17:Q1:284:TYR:CD1	17:Q1:347:PHE:HZ	2.21	0.58
17:Q1:550:LEU:HD13	17:Q1:550:LEU:C	2.27	0.58
17:Q1:700:GLU:HB3	17:Q1:758:ILE:HG23	1.83	0.58
17:Q2:288:ASN:C	17:Q2:333:ILE:HG22	2.28	0.58
17:Q2:341:ASP:OD2	17:Q2:407:ALA:HA	2.03	0.58
17:Q2:351:ILE:HB	17:Q2:362:ILE:CD1	2.33	0.58
17:Q2:651:ASN:O	17:Q2:654:VAL:HG22	2.03	0.58
17:Q2:890:GLN:HA	17:Q2:893:ASP:OD1	2.03	0.58
19:R2:711:LEU:CG	19:R2:714:TYR:HE2	2.16	0.58
20:S1:180:LEU:HD21	20:S1:185:LEU:HD13	1.85	0.58
20:S2:180:LEU:HD21	20:S2:185:LEU:HD13	1.85	0.58
20:S2:426:TYR:O	20:S2:464:ARG:NH2	2.36	0.58
24:W1:125:ASP:OD1	24:W1:127:SER:OG	2.17	0.58
24:W1:609:GLY:O	24:W1:613:ILE:HG22	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1409:LEU:HB2	27:Z2:711:LYS:CE	2.32	0.58
27:Z1:642:ASN:CA	27:Z1:642:ASN:C	2.76	0.58
27:Z2:197:LEU:HB2	27:Z2:302:ILE:HG21	1.85	0.58
27:Z2:207:ALA:HB3	27:Z2:285:PHE:HZ	1.68	0.58
6:F2:190:ARG:NH1	6:F2:281:THR:OG1	2.36	0.58
6:F2:856:GLU:N	6:F2:856:GLU:OE1	2.37	0.58
6:F2:1832:ASN:OD1	6:F2:1833:ARG:N	2.36	0.58
9:I1:908:ARG:CD	13:M1:548:LEU:O	2.50	0.58
9:I1:912:VAL:HG12	13:M1:542:ASP:HA	1.85	0.58
9:I1:966:TRP:HA	15:O1:181:HIS:CG	2.38	0.58
9:I2:421:SER:O	9:I2:425:HIS:ND1	2.33	0.58
9:I2:925:LEU:HD12	15:O3:183:VAL:HA	1.85	0.58
9:I2:1035:GLN:OE1	16:P3:143:PHE:N	2.32	0.58
9:I2:1433:THR:HG21	10:J2:270:ARG:CD	2.33	0.58
10:J1:249:ASP:CA	15:O1:272:SER:O	2.50	0.58
17:Q1:138:CYS:SG	17:Q1:166:ILE:HG12	2.43	0.58
17:Q2:288:ASN:HA	17:Q2:333:ILE:CG2	2.32	0.58
17:Q2:958:LYS:O	17:Q2:958:LYS:HD2	2.02	0.58
19:R2:211:ILE:HG23	20:S2:321:VAL:HG11	1.85	0.58
19:R2:677:LEU:CD1	19:R2:684:ILE:HG22	2.34	0.58
22:U1:207:LYS:N	27:Z1:661:GLU:O	2.30	0.58
24:W2:596:PHE:CZ	24:W2:704:SER:HA	2.37	0.58
25:X1:655:PHE:HZ	27:Z1:545:LEU:CB	1.90	0.58
25:X1:655:PHE:HZ	27:Z1:545:LEU:C	2.11	0.58
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CE2	2.35	0.58
27:Z1:213:PRO:O	27:Z1:216:LEU:HD23	2.03	0.58
27:Z1:252:GLN:NE2	27:Z1:335:MET:CG	2.56	0.58
27:Z1:305:ILE:CG2	27:Z1:386:PHE:HZ	2.15	0.58
27:Z1:381:ILE:HD11	27:Z1:420:ILE:HD13	1.85	0.58
27:Z1:559:GLU:O	27:Z1:563:GLN:HG3	2.03	0.58
27:Z1:627:GLU:HB3	27:Z1:631:PHE:CE2	2.34	0.58
27:Z2:213:PRO:O	27:Z2:216:LEU:HD23	2.03	0.58
27:Z2:530:ASP:O	27:Z2:534:GLU:HG3	2.03	0.58
1:A3:1091:VAL:CA	4:D3:1100:PRO:HG2	2.34	0.58
1:A4:827:ILE:CB	1:A4:849:SER:HA	2.33	0.58
6:F1:1807:GLU:C	14:N2:412:ASN:CA	2.65	0.58
6:F2:138:ILE:O	9:I2:1391:THR:CG2	2.51	0.58
6:F2:581:PHE:O	6:F2:585:THR:OG1	2.21	0.58
7:G2:253:SER:HA	15:O4:248:SER:C	2.28	0.58
9:I1:976:ARG:NE	15:O1:173:ILE:H	1.99	0.58
9:I2:810:GLU:N	15:O3:244:GLU:C	2.58	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1305:LEU:CG	15:O3:263:GLN:CD	2.62	0.58
17:Q1:403:GLN:NE2	17:Q1:414:THR:HB	2.18	0.58
17:Q1:549:MET:O	17:Q1:553:LEU:HG	2.03	0.58
17:Q2:215:GLU:HB3	17:Q2:216:PRO:CD	2.33	0.58
17:Q2:316:ILE:HD12	17:Q2:331:LEU:HD21	1.83	0.58
17:Q2:419:MET:CE	17:Q2:465:LEU:HD11	2.33	0.58
17:Q2:550:LEU:HD13	17:Q2:550:LEU:C	2.27	0.58
17:Q2:684:GLU:CA	17:Q2:688:THR:HB	2.34	0.58
17:Q2:1016:PHE:CE2	17:Q2:1068:GLU:HG3	2.38	0.58
19:R2:519:GLU:HB3	19:R2:522:LEU:HD12	1.85	0.58
23:V2:163:LYS:HD2	23:V2:172:PHE:CZ	2.38	0.58
24:W2:329:TRP:HB3	24:W2:355:TRP:HB3	1.85	0.58
25:X1:793:LEU:CD1	27:Z1:680:TRP:CD1	2.86	0.58
25:X2:752:ASP:OD2	26:Y2:1345:LEU:HD11	2.02	0.58
26:Y2:1298:TYR:HB3	27:Z2:588:TRP:CZ3	2.39	0.58
26:Y2:1338:GLN:HB3	27:Z2:630:TRP:CE2	2.38	0.58
26:Y2:1358:HIS:HD2	26:Y2:1362:LEU:HG	1.66	0.58
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:HD13	2.39	0.58
26:Y2:1436:VAL:HG23	27:Z2:228:ASN:OD1	2.02	0.58
27:Z1:55:HIS:CE1	27:Z1:98:SER:HB2	2.36	0.58
27:Z1:189:LYS:H	27:Z1:313:GLU:CD	2.10	0.58
27:Z1:301:ASN:N	27:Z1:318:SER:OG	2.36	0.58
27:Z2:92:GLU:OE2	27:Z2:111:ILE:HD13	2.03	0.58
27:Z2:522:GLU:HG3	27:Z2:524:GLN:N	2.08	0.58
28:a2:1081:ILE:HG22	28:a2:1085:LYS:HE3	1.85	0.58
29:b1:58:HIS:ND1	29:b2:69:VAL:CB	2.64	0.58
1:A2:1200:ARG:C	1:A1:595:GLU:CB	2.76	0.58
1:A4:581:LYS:NZ	4:D3:1031:ARG:HH21	2.01	0.58
6:F1:267:GLU:CG	11:K1:638:PRO:CD	2.73	0.58
9:I1:919:ALA:HB1	15:O1:190:ARG:CZ	1.73	0.58
9:I2:890:TYR:C	13:M3:587:GLU:OE2	2.36	0.58
9:I2:1030:ARG:CZ	13:M3:608:LYS:N	2.67	0.58
9:I2:1048:GLU:HG2	14:N3:289:PHE:CD2	2.34	0.58
17:Q1:287:THR:O	17:Q1:333:ILE:HG21	2.03	0.58
17:Q1:696:LEU:CD1	17:Q1:700:GLU:HG3	2.33	0.58
18:R1:677:LEU:CD1	18:R1:684:ILE:HG22	2.34	0.58
22:U1:219:SER:HG	22:U1:312:TRP:CD1	2.21	0.58
22:U1:225:GLY:O	23:V1:453:ASP:HB3	2.03	0.58
25:X1:800:HIS:HD2	27:Z1:694:ILE:CD1	2.12	0.58
25:X2:681:SER:O	27:Z2:445:LEU:O	2.20	0.58
26:Y2:1430:ASP:O	26:Y2:1434:PHE:CZ	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:92:GLU:OE2	27:Z1:111:ILE:HD13	2.03	0.58
27:Z1:145:LEU:HB2	27:Z1:185:LEU:HD11	1.85	0.58
27:Z1:184:ASP:OD2	27:Z1:197:LEU:CB	2.50	0.58
27:Z1:233:MET:HE1	27:Z1:334:SER:CB	2.33	0.58
27:Z1:359:GLU:OE1	27:Z1:361:LYS:HE2	2.01	0.58
27:Z2:369:GLN:OE1	27:Z2:372:LYS:NZ	2.36	0.58
27:Z2:627:GLU:HB3	27:Z2:631:PHE:CE2	2.34	0.58
28:a1:1110:ALA:O	28:a1:1111:GLU:HG3	2.04	0.58
1:A3:785:ILE:CD1	1:A3:825:ARG:HG2	2.31	0.58
1:A3:1224:PRO:HD2	1:A4:648:TYR:CE1	2.37	0.58
6:F1:1265:GLN:HG3	15:O2:252:VAL:HG23	1.82	0.58
7:G2:252:LEU:HB3	15:O4:248:SER:CB	2.33	0.58
9:I1:921:GLU:N	9:I1:921:GLU:OE1	2.36	0.58
9:I1:1038:ILE:CD1	15:O1:179:LEU:HD11	2.19	0.58
9:I1:1363:GLU:OE1	9:I1:1366:ARG:NH2	2.36	0.58
9:I2:1305:LEU:CG	15:O3:264:ILE:CG1	2.81	0.58
9:I2:1363:GLU:OE1	9:I2:1366:ARG:NH2	2.36	0.58
17:Q1:646:PHE:HE2	17:Q1:669:VAL:HB	1.68	0.58
17:Q1:1080:SER:O	17:Q1:1084:LEU:HD13	2.02	0.58
17:Q2:288:ASN:HD21	17:Q2:332:LYS:CG	2.17	0.58
17:Q2:288:ASN:OD1	17:Q2:332:LYS:HG2	2.04	0.58
17:Q2:623:LEU:H	17:Q2:623:LEU:HD12	1.68	0.58
17:Q2:667:LEU:HD11	17:Q2:671:ASN:HD21	1.68	0.58
17:Q2:749:LEU:HD11	17:Q2:807:PHE:CE1	2.38	0.58
18:R1:620:LEU:HD12	18:R1:670:LYS:HD3	1.85	0.58
20:S1:574:THR:CB	21:T1:88:ARG:CZ	2.81	0.58
25:X1:742:GLN:HB2	25:X1:746:LYS:HG3	1.83	0.58
27:Z2:117:ASP:CB	27:Z2:124:LYS:HZ1	1.88	0.58
27:Z2:133:HIS:HE1	27:Z2:211:PHE:CD1	2.13	0.58
27:Z2:189:LYS:H	27:Z2:313:GLU:CD	2.11	0.58
27:Z2:218:LEU:CD1	27:Z2:223:LEU:HD23	2.18	0.58
27:Z2:326:LEU:HD23	27:Z2:389:TRP:CZ2	2.35	0.58
1:A2:1204:TRP:HE1	1:A1:599:ARG:HA	0.54	0.58
1:A2:1237:LEU:CG	1:A1:588:SER:CB	2.79	0.58
9:I1:844:LYS:HZ3	13:M1:539:ALA:CB	2.10	0.58
9:I1:977:ASN:HD22	15:O1:178:ASP:N	1.81	0.58
9:I2:1026:TYR:CE1	13:M3:609:GLY:C	2.81	0.58
17:Q1:173:ILE:HD13	17:Q1:175:TYR:OH	2.03	0.58
17:Q1:518:PRO:O	17:Q1:522:LEU:HG	2.03	0.58
17:Q1:1043:ARG:NH1	17:Q1:1113:ILE:HG23	2.19	0.58
17:Q1:1081:VAL:HG11	17:Q1:1124:ASN:ND2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:246:LYS:HD3	17:Q2:247:LEU:C	2.29	0.58
17:Q2:646:PHE:HE2	17:Q2:669:VAL:HB	1.68	0.58
23:V1:227:VAL:C	23:V1:229:SER:H	2.12	0.58
25:X1:802:ASP:HB3	26:Y1:1371:VAL:HG13	1.86	0.58
25:X2:685:MET:CG	27:Z2:445:LEU:O	2.44	0.58
26:Y1:1298:TYR:HB3	27:Z1:588:TRP:CZ3	2.38	0.58
26:Y2:1367:LYS:C	26:Y2:1383:ALA:CB	2.76	0.58
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:CB	2.21	0.58
27:Z1:207:ALA:HB3	27:Z1:285:PHE:HZ	1.68	0.58
27:Z1:364:ILE:O	27:Z1:373:LEU:CD1	2.45	0.58
27:Z1:538:ARG:HG2	27:Z2:550:HIS:N	2.18	0.58
27:Z2:165:VAL:HG12	27:Z2:168:LYS:CG	2.31	0.58
27:Z2:227:LEU:HD11	27:Z2:260:HIS:HB2	1.84	0.58
27:Z2:325:ILE:CG2	27:Z2:327:LEU:HD21	2.33	0.58
6:F2:158:PRO:CG	9:I2:1341:GLN:HG3	2.34	0.58
9:I2:925:LEU:HD11	15:O3:186:PHE:HB3	1.17	0.58
9:I2:925:LEU:HD13	15:O3:182:THR:C	2.28	0.58
9:I2:1026:TYR:CZ	13:M3:608:LYS:C	2.79	0.58
17:Q1:288:ASN:HD21	17:Q1:332:LYS:CG	2.17	0.58
17:Q1:568:LEU:O	17:Q1:571:VAL:HG22	2.04	0.58
17:Q1:816:GLN:HA	17:Q1:819:GLN:NE2	2.18	0.58
17:Q1:887:TRP:HB3	17:Q1:902:THR:HG23	1.85	0.58
17:Q1:890:GLN:HA	17:Q1:893:ASP:OD1	2.03	0.58
17:Q1:923:HIS:O	17:Q1:926:VAL:HG13	2.03	0.58
17:Q2:279:GLY:CA	17:Q2:299:ALA:HA	2.34	0.58
17:Q2:549:MET:O	17:Q2:553:LEU:HG	2.02	0.58
20:S1:433:GLU:OE1	20:S1:467:SER:OG	2.20	0.58
24:W1:185:GLY:O	24:W1:196:PRO:HA	2.04	0.58
25:X1:700:ILE:CA	26:Y1:1298:TYR:CE1	2.84	0.58
25:X2:655:PHE:CE1	27:Z2:545:LEU:HD13	2.37	0.58
25:X2:821:ILE:HG22	25:X2:821:ILE:O	2.03	0.58
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CG	2.37	0.58
29:b2:9:PRO:HD3	29:b2:29:LYS:HZ2	0.75	0.58
1:A3:1088:ASN:CG	4:D3:1095:ARG:NH2	2.56	0.58
6:F1:158:PRO:HG2	9:I1:1338:PHE:C	2.23	0.58
7:G1:253:SER:O	14:N2:393:ILE:HG23	2.04	0.58
9:I1:838:GLU:O	15:O1:198:ARG:CZ	2.51	0.58
9:I2:1032:THR:HG22	13:M3:618:GLN:HG2	1.85	0.58
17:Q1:73:GLN:HG2	17:Q1:113:THR:HA	1.85	0.58
17:Q1:140:LEU:HD23	17:Q1:140:LEU:C	2.29	0.58
17:Q1:615:GLU:HB2	17:Q1:645:ILE:CG2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:623:LEU:H	17:Q1:623:LEU:HD12	1.68	0.58
17:Q1:648:GLN:OE1	17:Q1:648:GLN:HA	2.04	0.58
17:Q1:667:LEU:HD11	17:Q1:671:ASN:HD21	1.68	0.58
17:Q1:700:GLU:HG2	17:Q1:758:ILE:HG12	1.84	0.58
17:Q1:801:CYS:CB	17:Q1:818:LEU:HD12	2.33	0.58
17:Q1:1016:PHE:CE2	17:Q1:1068:GLU:HG3	2.38	0.58
17:Q1:1099:TYR:CZ	17:Q1:1109:ILE:HG21	2.39	0.58
17:Q2:456:ILE:CG1	17:Q2:468:LEU:HB2	2.33	0.58
17:Q2:816:GLN:HA	17:Q2:819:GLN:NE2	2.18	0.58
17:Q2:824:ASN:ND2	17:Q2:833:GLU:HB2	2.15	0.58
18:R1:454:ASP:HB2	18:R1:455:PRO:HD2	1.85	0.58
18:R1:621:GLN:HB3	18:R1:670:LYS:HE2	1.86	0.58
19:R2:631:ILE:HD13	19:R2:631:ILE:C	2.29	0.58
24:W2:245:ILE:HB	24:W2:255:GLN:HB2	1.84	0.58
26:Y2:1337:HIS:HB2	27:Z1:108:ALA:CA	2.34	0.58
26:Y2:1403:ARG:HG3	27:Z2:704:VAL:HG22	1.86	0.58
27:Z1:326:LEU:O	27:Z1:327:LEU:HD23	2.04	0.58
27:Z1:383:GLN:NE2	27:Z1:417:ILE:CG2	2.67	0.58
27:Z1:395:LYS:HG3	27:Z2:266:ARG:CG	2.33	0.58
27:Z1:530:ASP:O	27:Z1:534:GLU:HG3	2.04	0.58
27:Z2:116:ILE:HD11	27:Z2:125:SER:O	1.92	0.58
27:Z2:366:LEU:HD23	27:Z2:374:TYR:HE2	1.63	0.58
27:Z2:380:ILE:CG2	27:Z2:382:GLN:HG3	2.34	0.58
27:Z2:437:LEU:CG	27:Z2:450:ILE:CD1	2.40	0.58
27:Z2:642:ASN:CA	27:Z2:642:ASN:C	2.76	0.58
28:a1:1065:THR:HG22	28:a1:1067:LYS:HG3	1.85	0.58
28:a2:1065:THR:HG22	28:a2:1067:LYS:HG3	1.85	0.58
6:F1:1832:ASN:OD1	6:F1:1833:ARG:N	2.36	0.58
6:F2:139:GLN:CB	9:I2:1395:LEU:HD12	2.27	0.58
6:F2:140:GLU:HG3	9:I2:1392:VAL:CG2	1.89	0.58
7:G2:253:SER:HA	15:O4:249:ARG:CA	2.34	0.58
9:I2:799:THR:O	9:I2:831:HIS:NE2	2.37	0.58
9:I2:914:ASN:CB	15:O3:194:GLU:CB	2.75	0.58
9:I2:1100:ILE:O	13:M3:611:LYS:NZ	2.28	0.58
17:Q1:599:LYS:CD	17:Q1:603:ILE:HD11	2.32	0.58
17:Q1:824:ASN:ND2	17:Q1:833:GLU:HB2	2.15	0.58
17:Q1:1065:VAL:HA	17:Q1:1070:LEU:HD23	1.85	0.58
17:Q2:689:ILE:HG23	17:Q2:690:ARG:N	2.19	0.58
17:Q2:986:ILE:HG21	17:Q2:1102:PHE:CE1	2.39	0.58
17:Q2:987:LEU:CB	17:Q2:1005:LEU:HD23	2.34	0.58
17:Q2:1099:TYR:CZ	17:Q2:1109:ILE:HG21	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:401:THR:O	24:W1:724:PHE:CB	2.40	0.58
25:X1:652:ALA:O	25:X1:656:GLU:HG3	2.04	0.58
25:X1:721:LEU:HD22	26:Y1:1319:PHE:CE2	2.39	0.58
25:X2:694:ASP:CA	27:Z2:431:TRP:C	2.76	0.58
26:Y1:1434:PHE:CE1	26:Y2:1429:LYS:CD	2.65	0.58
27:Z1:25:TYR:C	27:Z1:440:MET:CE	2.52	0.58
27:Z1:124:LYS:N	27:Z1:124:LYS:CA	2.67	0.58
27:Z1:537:GLN:O	27:Z2:551:ASN:HB2	2.04	0.58
27:Z2:559:GLU:O	27:Z2:563:GLN:HG3	2.03	0.58
29:b1:27:ILE:HG23	29:b1:48:GLN:HE22	1.66	0.58
29:b1:70:THR:O	29:b2:58:HIS:CE1	2.57	0.58
7:G2:254:ASN:ND2	15:O4:256:TYR:H	2.01	0.57
9:I1:912:VAL:CA	13:M1:545:GLU:OE2	2.33	0.57
9:I2:1103:LEU:H	15:O3:272:SER:HA	1.68	0.57
9:I2:1107:SER:CA	15:O3:280:GLU:CG	2.81	0.57
9:I2:1305:LEU:CB	15:O3:263:GLN:CD	2.77	0.57
9:I2:1305:LEU:CG	15:O3:264:ILE:CD1	2.79	0.57
17:Q1:341:ASP:OD2	17:Q1:407:ALA:HA	2.04	0.57
17:Q1:684:GLU:CA	17:Q1:688:THR:HB	2.34	0.57
17:Q2:648:GLN:HA	17:Q2:648:GLN:OE1	2.04	0.57
17:Q2:731:GLU:O	17:Q2:731:GLU:HG3	2.03	0.57
17:Q2:836:PHE:HD2	17:Q2:842:GLU:CG	2.16	0.57
19:R2:518:ILE:O	19:R2:518:ILE:HG23	2.03	0.57
19:R2:590:LEU:HD13	19:R2:590:LEU:C	2.29	0.57
21:T1:217:LEU:HD22	21:T1:218:LEU:H	1.69	0.57
22:U1:123:LEU:HB2	22:U1:139:ALA:HB3	1.86	0.57
24:W1:400:LYS:HG2	24:W1:720:PHE:CB	2.32	0.57
25:X1:788:ASP:C	25:X1:792:GLN:NE2	2.62	0.57
25:X1:790:ASN:ND2	27:Z1:680:TRP:CH2	2.72	0.57
25:X2:658:TYR:CD1	26:Y2:1239:PHE:CE1	2.92	0.57
25:X2:701:GLU:OE2	27:Z2:587:LYS:HD3	2.04	0.57
26:Y1:1403:ARG:HG3	27:Z1:704:VAL:HG22	1.86	0.57
26:Y1:1435:LYS:HZ3	27:Z1:225:LEU:CD2	1.98	0.57
27:Z1:125:SER:HB2	27:Z1:147:GLU:CD	2.28	0.57
27:Z1:314:ILE:HG21	27:Z1:326:LEU:CD2	2.34	0.57
27:Z1:328:PHE:HZ	27:Z1:349:VAL:HG11	1.65	0.57
27:Z1:399:GLU:HG2	27:Z2:263:TRP:HE3	1.69	0.57
27:Z2:233:MET:HE1	27:Z2:334:SER:CB	2.33	0.57
27:Z2:301:ASN:N	27:Z2:318:SER:OG	2.36	0.57
28:a2:1110:ALA:O	28:a2:1111:GLU:HG3	2.04	0.57
29:b1:75:HIS:CE1	29:b1:90:LYS:HD2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1329:GLU:O	4:D3:879:ASP:CB	2.37	0.57
1:A4:132:ASP:CG	4:D3:1002:ALA:HB3	2.27	0.57
4:D1:1030:ALA:O	1:A1:633:MET:HB2	2.04	0.57
6:F1:856:GLU:N	6:F1:856:GLU:OE1	2.36	0.57
6:F2:143:GLY:HA2	9:I2:1394:ASN:CB	2.33	0.57
9:I1:966:TRP:HB3	15:O1:179:LEU:N	2.19	0.57
9:I1:1360:GLU:C	15:O1:266:GLN:NE2	2.42	0.57
9:I2:1025:LEU:O	13:M3:613:ASP:CA	2.51	0.57
9:I2:1305:LEU:HB2	15:O3:263:GLN:HG2	1.86	0.57
9:I2:1305:LEU:HD23	15:O3:264:ILE:HG13	1.84	0.57
10:J1:248:VAL:CG1	15:O1:273:ASP:HA	2.18	0.57
17:Q1:215:GLU:HB3	17:Q1:216:PRO:CD	2.34	0.57
17:Q2:564:PHE:CZ	17:Q2:588:ILE:HD13	2.37	0.57
17:Q2:593:ILE:HG12	17:Q2:683:GLU:OE1	2.05	0.57
18:R1:442:LEU:HD13	18:R1:442:LEU:C	2.29	0.57
18:R1:590:LEU:HD13	18:R1:590:LEU:C	2.29	0.57
19:R2:581:LEU:HA	19:R2:584:ILE:HD11	1.86	0.57
19:R2:613:ILE:CG2	19:R2:614:PRO:HD3	2.34	0.57
19:R2:621:GLN:HB3	19:R2:670:LYS:HE2	1.86	0.57
20:S1:571:ALA:HB2	21:T1:86:ASN:HB2	0.72	0.57
20:S2:359:TYR:HA	20:S2:362:LEU:HD12	1.86	0.57
23:V2:227:VAL:C	23:V2:229:SER:H	2.12	0.57
25:X1:665:TRP:CE3	27:Z1:556:GLN:NE2	2.51	0.57
25:X1:821:ILE:HG22	25:X1:821:ILE:O	2.03	0.57
25:X2:688:HIS:NE2	27:Z2:445:LEU:HD11	2.19	0.57
26:Y2:1235:MET:SD	27:Z2:546:GLY:HA2	2.44	0.57
27:Z1:216:LEU:O	27:Z1:269:LYS:HA	2.04	0.57
27:Z1:587:LYS:O	27:Z1:591:GLN:CG	2.46	0.57
27:Z1:643:SER:N	27:Z1:644:PHE:N	2.51	0.57
27:Z1:678:ASN:O	27:Z1:678:ASN:CB	2.52	0.57
27:Z2:314:ILE:HG21	27:Z2:326:LEU:CD2	2.33	0.57
27:Z2:359:GLU:HG2	27:Z2:361:LYS:CE	2.29	0.57
1:A4:127:HIS:NE2	4:D3:1009:ARG:HB2	2.18	0.57
6:F1:190:ARG:NH1	6:F1:281:THR:OG1	2.37	0.57
6:F2:171:PHE:O	6:F2:180:ARG:NH2	2.36	0.57
6:F2:197:ASP:OD1	6:F2:295:GLN:NE2	2.36	0.57
9:I1:903:GLY:O	13:M1:574:THR:N	2.30	0.57
9:I1:1315:GLN:C	15:O1:269:ILE:HG13	2.29	0.57
9:I2:923:GLY:HA3	15:O3:190:ARG:CZ	2.31	0.57
9:I2:1034:ASP:OD2	13:M3:622:VAL:HB	2.04	0.57
9:I2:1104:LEU:H	13:M3:611:LYS:CE	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:264:ARG:HG3	14:N4:334:LEU:HD13	1.86	0.57
17:Q1:509:ALA:CB	17:Q1:516:LEU:HD11	2.33	0.57
17:Q1:610:LEU:HD21	17:Q1:613:ILE:HD12	1.85	0.57
17:Q1:922:LEU:CD2	18:R1:688:LEU:HD23	2.26	0.57
17:Q1:1128:SER:O	17:Q1:1131:ILE:HG22	2.04	0.57
17:Q2:887:TRP:HB3	17:Q2:902:THR:HG23	1.85	0.57
18:R1:543:VAL:HG23	18:R1:544:LYS:N	2.19	0.57
18:R1:590:LEU:HD13	18:R1:590:LEU:O	2.04	0.57
19:R2:546:LEU:HB3	19:R2:587:TYR:CE1	2.39	0.57
19:R2:624:SER:CB	19:R2:667:LEU:HD23	2.33	0.57
19:R2:704:LEU:N	19:R2:704:LEU:HD22	2.19	0.57
22:U1:205:ALA:CA	27:Z1:668:GLU:OE2	2.51	0.57
23:V1:163:LYS:HD2	23:V1:172:PHE:CZ	2.39	0.57
23:V1:271:LEU:O	23:V1:275:SER:HB3	2.04	0.57
23:V2:145:ASN:OD1	23:V2:190:PHE:HA	2.04	0.57
24:W2:185:GLY:O	24:W2:196:PRO:HA	2.04	0.57
25:X1:776:PHE:CE2	26:Y1:1369:PHE:CD1	2.90	0.57
25:X2:725:VAL:CG2	27:Z2:612:ILE:CG2	2.83	0.57
25:X2:725:VAL:CG2	27:Z2:612:ILE:HG23	2.26	0.57
26:Y2:1123:GLN:HE22	29:b1:37:LEU:CD2	2.16	0.57
26:Y2:1333:ASP:C	27:Z1:92:GLU:HB2	2.28	0.57
26:Y2:1345:LEU:HB3	26:Y2:1348:LYS:HE2	1.86	0.57
27:Z1:356:LEU:HD13	27:Z1:358:ARG:HH22	1.66	0.57
27:Z2:282:GLN:HA	27:Z2:283:GLY:N	2.18	0.57
29:b1:78:TYR:CE1	29:b1:85:ALA:HB1	2.39	0.57
29:b2:15:ASP:OD2	29:b2:76:PHE:HB3	2.05	0.57
1:A3:1274:ASP:H	1:A4:642:ARG:HH12	1.50	0.57
4:D1:1003:GLU:CA	1:A1:172:PRO:HB2	2.32	0.57
9:I1:917:TYR:HD1	13:M1:534:GLN:NE2	2.01	0.57
9:I1:979:ALA:CB	15:O1:179:LEU:HB2	2.34	0.57
9:I1:1112:SER:HB3	10:J1:241:THR:HB	1.87	0.57
9:I2:904:GLU:O	13:M3:577:LEU:CD1	2.52	0.57
17:Q1:316:ILE:HD12	17:Q1:331:LEU:HD21	1.83	0.57
17:Q1:491:VAL:HG12	17:Q1:495:LYS:HE2	1.86	0.57
17:Q1:506:LYS:HD3	17:Q1:567:PHE:HD1	1.69	0.57
17:Q2:423:ALA:HB2	17:Q2:448:SER:HA	1.85	0.57
17:Q2:604:ILE:O	17:Q2:604:ILE:HG23	2.03	0.57
17:Q2:714:TYR:HD2	17:Q2:717:CYS:SG	2.24	0.57
18:R1:581:LEU:HA	18:R1:584:ILE:HD11	1.86	0.57
21:T2:217:LEU:HD22	21:T2:218:LEU:H	1.69	0.57
23:V1:145:ASN:OD1	23:V1:190:PHE:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:159:ILE:HG22	23:V1:172:PHE:CE1	2.39	0.57
25:X2:695:GLN:N	27:Z2:431:TRP:CA	2.67	0.57
26:Y1:1338:GLN:HB3	27:Z1:630:TRP:CE2	2.38	0.57
26:Y2:1317:TYR:HB2	27:Z1:49:LEU:CD1	2.33	0.57
27:Z1:305:ILE:HD11	27:Z1:373:LEU:HD13	1.85	0.57
27:Z1:522:GLU:OE2	27:Z1:526:GLU:HB2	2.04	0.57
29:b1:12:LYS:HB2	29:b1:78:TYR:CD2	2.39	0.57
1:A2:1233:GLN:CG	1:A1:587:VAL:CG1	2.74	0.57
1:A2:1275:PRO:HD3	1:A1:727:ASN:ND2	2.20	0.57
1:A3:1200:ARG:CG	1:A4:592:ASP:OD2	2.50	0.57
1:A3:1402:ASP:CA	4:D3:824:ARG:HD3	2.27	0.57
6:F1:1052:CYS:HB3	9:I1:1388:GLU:HG3	1.64	0.57
9:I1:799:THR:O	9:I1:831:HIS:NE2	2.37	0.57
9:I1:965:ALA:HB2	15:O1:185:ALA:HB3	1.83	0.57
9:I2:914:ASN:CB	15:O3:190:ARG:C	2.63	0.57
9:I2:961:ARG:NH2	16:P3:164:PRO:HD3	2.19	0.57
10:J2:247:ASP:CB	15:O3:279:ILE:HD11	2.34	0.57
17:Q1:351:ILE:HB	17:Q1:362:ILE:CD1	2.33	0.57
17:Q1:447:VAL:O	17:Q1:447:VAL:HG23	2.04	0.57
17:Q1:673:ILE:HG12	17:Q1:677:PHE:HE2	1.69	0.57
17:Q1:986:ILE:HG21	17:Q1:1102:PHE:CE1	2.38	0.57
17:Q2:140:LEU:HD23	17:Q2:140:LEU:C	2.29	0.57
18:R1:530:ILE:HD13	18:R1:553:ASN:HB2	1.86	0.57
25:X1:655:PHE:CE1	27:Z1:545:LEU:CB	2.72	0.57
25:X1:795:LYS:CB	27:Z1:665:ILE:HG22	2.29	0.57
25:X2:697:LEU:H	27:Z2:432:ASN:HD21	0.70	0.57
25:X2:755:LEU:HD11	26:Y2:1349:LEU:CD1	2.13	0.57
25:X2:777:ASN:OD1	26:Y2:1369:PHE:HZ	1.83	0.57
26:Y1:1345:LEU:HB3	26:Y1:1348:LYS:HE2	1.86	0.57
26:Y2:1332:LYS:CE	27:Z1:97:TYR:C	2.77	0.57
26:Y2:1337:HIS:CB	27:Z1:108:ALA:O	2.51	0.57
27:Z1:153:MET:CE	27:Z1:211:PHE:CE1	2.88	0.57
27:Z1:217:LEU:HA	27:Z1:269:LYS:CG	2.34	0.57
27:Z1:380:ILE:CG2	27:Z1:382:GLN:HG3	2.34	0.57
27:Z2:143:VAL:CG2	27:Z2:211:PHE:HZ	2.07	0.57
27:Z2:156:ILE:HG22	27:Z2:156:ILE:O	2.03	0.57
27:Z2:364:ILE:O	27:Z2:373:LEU:CD1	2.45	0.57
27:Z2:381:ILE:CD1	27:Z2:420:ILE:HG21	2.35	0.57
29:b1:57:TRP:CZ2	29:b1:90:LYS:HD2	2.40	0.57
1:A4:1048:ARG:CZ	4:D4:1095:ARG:HH11	2.15	0.57
6:F1:1528:ALA:O	1:A1:1099:GLN:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:158:PRO:HG2	9:I2:1341:GLN:HG3	1.86	0.57
7:G2:253:SER:CA	15:O4:249:ARG:O	2.53	0.57
9:I2:1099:ARG:NH1	13:M3:610:SER:N	2.35	0.57
17:Q2:491:VAL:CG1	17:Q2:495:LYS:HE2	2.35	0.57
17:Q2:506:LYS:HD3	17:Q2:567:PHE:HD1	1.69	0.57
17:Q2:568:LEU:O	17:Q2:571:VAL:HG22	2.04	0.57
17:Q2:805:ALA:HB2	17:Q2:815:VAL:HG12	1.86	0.57
17:Q2:1128:SER:O	17:Q2:1131:ILE:HG22	2.04	0.57
18:R1:479:THR:O	18:R1:483:VAL:HB	2.04	0.57
19:R2:280:SER:HB2	19:R2:284:SER:HB3	1.86	0.57
20:S1:359:TYR:HA	20:S1:362:LEU:HD12	1.86	0.57
22:U2:225:GLY:O	23:V2:453:ASP:HB3	2.04	0.57
24:W1:739:PHE:O	24:W1:743:ASN:N	2.36	0.57
25:X1:680:TYR:O	25:X1:684:VAL:HG23	2.03	0.57
26:Y1:1211:LEU:HD13	26:Y1:1214:ILE:HG21	1.86	0.57
26:Y1:1235:MET:SD	27:Z1:546:GLY:HA2	2.44	0.57
27:Z1:263:TRP:HD1	27:Z1:270:VAL:CG2	2.16	0.57
27:Z2:125:SER:HB2	27:Z2:147:GLU:CD	2.29	0.57
27:Z2:129:LYS:HE2	27:Z2:185:LEU:CB	2.24	0.57
27:Z2:182:ILE:HD12	27:Z2:198:ASN:OD1	2.05	0.57
27:Z2:230:SER:C	27:Z2:253:LEU:CD2	2.64	0.57
27:Z2:326:LEU:O	27:Z2:327:LEU:HD23	2.04	0.57
27:Z2:428:TYR:CZ	27:Z2:435:SER:CB	2.71	0.57
28:a1:966:MSE:HG3	28:a1:1020:GLY:HA3	1.86	0.57
28:a1:1081:ILE:HG22	28:a1:1085:LYS:HE3	1.85	0.57
6:F2:159:ALA:O	9:I2:1197:ASN:CA	2.51	0.57
9:I1:918:SER:CB	15:O1:193:ALA:CA	2.83	0.57
10:J1:249:ASP:OD1	10:J1:250:THR:N	2.37	0.57
17:Q1:177:ASP:OD1	17:Q1:180:SER:HB2	2.05	0.57
17:Q1:288:ASN:OD1	17:Q1:332:LYS:HG2	2.04	0.57
17:Q1:960:ILE:HD11	17:Q1:1005:LEU:CD1	2.32	0.57
17:Q1:999:LEU:HD13	17:Q1:999:LEU:C	2.29	0.57
17:Q2:144:ALA:HA	17:Q2:234:ARG:HH22	1.68	0.57
17:Q2:177:ASP:OD1	17:Q2:180:SER:HB2	2.04	0.57
17:Q2:722:PHE:O	17:Q2:725:PHE:HB3	2.05	0.57
18:R1:442:LEU:HD11	18:R1:470:LEU:CD2	2.35	0.57
18:R1:546:LEU:HB3	18:R1:587:TYR:CE1	2.39	0.57
19:R2:237:ILE:HD11	19:R2:240:HIS:HA	1.87	0.57
19:R2:343:ILE:HD13	19:R2:344:ARG:N	2.19	0.57
22:U2:42:THR:O	22:U2:44:ASN:N	2.31	0.57
23:V2:162:VAL:O	23:V2:166:ASP:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:329:TRP:HB3	24:W1:355:TRP:HB3	1.85	0.57
25:X1:764:SER:O	25:X1:768:GLU:HG3	2.03	0.57
25:X2:778:LYS:C	25:X2:789:GLU:N	2.63	0.57
26:Y2:1123:GLN:NE2	29:b1:37:LEU:CD2	2.66	0.57
27:Z1:156:ILE:O	27:Z1:156:ILE:HG22	2.03	0.57
27:Z1:263:TRP:HD1	27:Z1:270:VAL:HG21	1.70	0.57
27:Z1:274:LYS:HG2	27:Z1:274:LYS:O	2.03	0.57
27:Z1:325:ILE:HG21	27:Z1:327:LEU:HD21	1.87	0.57
27:Z1:426:LEU:CD2	27:Z1:439:LEU:CD2	2.83	0.57
27:Z2:27:PHE:CE1	27:Z2:36:VAL:HB	2.33	0.57
27:Z2:66:ASP:OD1	27:Z2:68:THR:OG1	2.14	0.57
27:Z2:153:MET:CE	27:Z2:211:PHE:CE1	2.88	0.57
27:Z2:184:ASP:OD2	27:Z2:197:LEU:CB	2.50	0.57
27:Z2:431:TRP:CD1	27:Z2:436:ASN:HD21	2.06	0.57
29:b1:78:TYR:OH	29:b1:80:TYR:OH	2.15	0.57
29:b2:51:VAL:O	29:b2:51:VAL:HG12	2.02	0.57
4:D1:969:HIS:ND1	1:A1:711:VAL:HG22	2.19	0.57
9:I1:747:GLU:N	9:I1:747:GLU:OE1	2.38	0.57
9:I2:747:GLU:N	9:I2:747:GLU:OE1	2.38	0.57
9:I2:892:HIS:CA	13:M3:588:MET:O	2.52	0.57
9:I2:899:LEU:O	13:M3:581:LEU:HA	2.05	0.57
9:I2:925:LEU:HB2	15:O3:182:THR:HG22	1.85	0.57
9:I2:968:PRO:HD3	15:O3:177:HIS:NE2	2.20	0.57
9:I2:1026:TYR:CE1	13:M3:609:GLY:N	2.71	0.57
9:I2:1034:ASP:CB	15:O3:284:LYS:HG2	2.34	0.57
9:I2:1049:LEU:CD2	14:N3:293:LYS:C	2.77	0.57
17:Q1:491:VAL:CG1	17:Q1:495:LYS:HE2	2.35	0.57
17:Q1:689:ILE:HG23	17:Q1:690:ARG:N	2.19	0.57
17:Q2:447:VAL:O	17:Q2:447:VAL:HG23	2.04	0.57
17:Q2:627:GLU:O	17:Q2:627:GLU:HG3	2.04	0.57
17:Q2:916:SER:HB2	17:Q2:919:GLU:CG	2.31	0.57
17:Q2:999:LEU:HD13	17:Q2:999:LEU:C	2.29	0.57
17:Q2:1071:PRO:HB2	17:Q2:1146:TYR:CE2	2.39	0.57
17:Q2:1081:VAL:HG11	17:Q2:1124:ASN:ND2	2.18	0.57
18:R1:519:GLU:HB3	18:R1:522:LEU:HD12	1.86	0.57
22:U1:29:SER:C	22:U1:31:GLN:H	2.12	0.57
23:V1:265:ILE:C	23:V1:267:ARG:H	2.12	0.57
24:W1:526:ARG:O	24:W1:744:VAL:CA	2.53	0.57
25:X1:777:ASN:OD1	26:Y1:1369:PHE:HZ	1.82	0.57
25:X2:680:TYR:HH	27:Z2:420:ILE:HG22	1.69	0.57
25:X2:687:GLU:HA	27:Z2:577:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:721:LEU:HD22	26:Y2:1319:PHE:CE2	2.39	0.57
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:CB	2.24	0.57
27:Z1:13:PHE:O	27:Z1:14:GLN:C	2.47	0.57
27:Z2:274:LYS:HG2	27:Z2:274:LYS:O	2.03	0.57
29:b2:32:LEU:HD23	29:b2:41:ILE:HD13	1.87	0.57
1:A3:873:PRO:HB2	4:D1:532:LEU:CD2	2.35	0.57
1:A3:1223:GLU:HB2	1:A4:648:TYR:HD2	0.93	0.57
1:A3:1272:GLY:CA	1:A4:727:ASN:CB	2.83	0.57
7:G1:255:LEU:CB	15:O2:243:LEU:C	2.78	0.57
9:I1:408:PRO:O	9:I1:409:SER:OG	2.16	0.57
9:I1:918:SER:HA	15:O1:193:ALA:HB3	1.81	0.57
9:I1:1048:GLU:OE1	15:O1:171:ASP:CB	2.53	0.57
9:I1:1051:LYS:HZ3	14:N1:290:VAL:HG23	1.66	0.57
9:I2:94:GLU:N	9:I2:94:GLU:OE1	2.38	0.57
9:I2:1107:SER:OG	13:M3:615:PRO:HG3	1.96	0.57
17:Q1:246:LYS:HD3	17:Q1:247:LEU:C	2.29	0.57
17:Q1:589:GLU:HA	17:Q1:589:GLU:OE1	2.04	0.57
17:Q1:627:GLU:O	17:Q1:627:GLU:HG3	2.04	0.57
17:Q2:651:ASN:HA	17:Q2:654:VAL:CG2	2.35	0.57
18:R1:442:LEU:HD21	18:R1:470:LEU:CD2	2.34	0.57
18:R1:631:ILE:HD13	18:R1:631:ILE:C	2.29	0.57
18:R1:704:LEU:N	18:R1:704:LEU:HD22	2.20	0.57
19:R2:557:GLU:OE2	19:R2:558:ILE:HA	2.05	0.57
19:R2:691:THR:HG21	19:R2:718:VAL:HG21	1.87	0.57
22:U1:209:PRO:HD3	27:Z1:663:THR:N	2.20	0.57
25:X1:687:GLU:HA	27:Z1:577:LEU:HD21	1.87	0.57
25:X2:676:ILE:HD11	26:Y2:1274:ASN:OD1	2.03	0.57
25:X2:764:SER:O	25:X2:768:GLU:HG3	2.04	0.57
26:Y2:1332:LYS:HG2	27:Z1:97:TYR:H	1.67	0.57
27:Z1:207:ALA:HB3	27:Z1:285:PHE:CZ	2.40	0.57
27:Z1:282:GLN:CG	27:Z1:342:TYR:O	2.43	0.57
27:Z1:531:ILE:CD1	27:Z2:541:LYS:CG	2.83	0.57
27:Z2:305:ILE:HD11	27:Z2:373:LEU:HD13	1.85	0.57
29:b1:15:ASP:O	29:b1:74:GLY:O	2.22	0.57
29:b1:77:VAL:CG2	29:b1:79:PHE:HE1	2.18	0.57
6:F1:138:ILE:HA	9:I1:1391:THR:HB	1.87	0.57
6:F2:1267:ARG:HH12	15:O4:262:ASP:C	2.12	0.57
9:I2:896:PRO:HD3	13:M3:588:MET:H	1.67	0.57
9:I2:1168:ALA:HB3	15:O3:269:ILE:HB	1.86	0.57
17:Q1:68:ILE:HD13	17:Q1:69:VAL:C	2.30	0.57
17:Q1:506:LYS:NZ	17:Q1:538:ILE:HD11	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:543:GLY:HA3	17:Q1:591:PHE:CZ	2.37	0.57
17:Q1:731:GLU:O	17:Q1:731:GLU:HG3	2.03	0.57
17:Q1:1071:PRO:HB2	17:Q1:1146:TYR:CE2	2.39	0.57
17:Q2:590:LYS:HA	17:Q2:593:ILE:HD12	1.87	0.57
19:R2:71:GLU:OE1	19:R2:75:TRP:NE1	2.36	0.57
19:R2:609:SER:O	19:R2:613:ILE:HG22	2.05	0.57
20:S2:550:GLY:HA2	20:S2:567:LEU:CB	2.34	0.57
23:V2:271:LEU:O	23:V2:275:SER:HB3	2.04	0.57
24:W1:101:SER:HA	24:W1:123:LEU:HA	1.87	0.57
24:W1:526:ARG:CG	24:W1:740:PHE:CB	2.83	0.57
24:W2:342:LEU:HD13	24:W2:379:ILE:HD12	1.86	0.57
25:X2:652:ALA:O	25:X2:656:GLU:HG3	2.04	0.57
25:X2:778:LYS:C	25:X2:790:ASN:OD1	2.45	0.57
25:X2:820:SER:C	27:Z1:273:GLN:H	2.13	0.57
26:Y1:1342:GLN:CG	27:Z1:630:TRP:CH2	2.85	0.57
27:Z1:41:ASN:HD22	27:Z1:60:SER:HB3	1.70	0.57
27:Z1:41:ASN:HA	27:Z1:59:PHE:CZ	2.40	0.57
27:Z1:204:ASP:OD2	27:Z1:284:PRO:CB	2.52	0.57
27:Z1:692:LYS:O	27:Z1:696:GLU:HG3	2.04	0.57
27:Z2:13:PHE:O	27:Z2:14:GLN:C	2.47	0.57
27:Z2:213:PRO:O	27:Z2:272:ILE:HD12	2.05	0.57
27:Z2:282:GLN:C	27:Z2:282:GLN:HA	2.14	0.57
27:Z2:325:ILE:HG21	27:Z2:327:LEU:HD21	1.87	0.57
27:Z2:339:VAL:HB	27:Z2:342:TYR:HD1	1.70	0.57
27:Z2:397:ILE:O	27:Z2:397:ILE:CG2	2.53	0.57
27:Z2:692:LYS:O	27:Z2:696:GLU:HG3	2.04	0.57
28:a2:1010:ASP:HB3	28:a2:1046:GLY:HA2	1.87	0.57
1:A2:1221:ILE:CG1	1:A1:600:LYS:CE	2.72	0.56
9:I1:966:TRP:HB3	15:O1:179:LEU:H	1.70	0.56
9:I1:1606:GLU:OE2	9:I2:1669:ARG:HD2	1.95	0.56
9:I2:1030:ARG:HG2	13:M3:617:THR:CB	2.27	0.56
10:J2:249:ASP:OD1	10:J2:250:THR:N	2.37	0.56
17:Q1:316:ILE:HG13	17:Q1:317:LEU:N	2.20	0.56
17:Q1:419:MET:CE	17:Q1:465:LEU:HD11	2.33	0.56
17:Q1:673:ILE:HG23	17:Q1:674:ASN:N	2.20	0.56
17:Q1:722:PHE:O	17:Q1:725:PHE:HB3	2.05	0.56
17:Q2:346:LEU:HD13	17:Q2:367:ILE:HG23	1.87	0.56
17:Q2:506:LYS:NZ	17:Q2:538:ILE:HD11	2.20	0.56
18:R1:280:SER:HB2	18:R1:284:SER:HB3	1.86	0.56
18:R1:343:ILE:HD13	18:R1:344:ARG:N	2.19	0.56
21:T2:117:LEU:HB2	21:T2:153:TRP:NE1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U2:238:GLY:HA2	22:U2:305:GLY:O	2.05	0.56
23:V2:159:ILE:HG21	23:V2:176:GLU:HG2	1.87	0.56
25:X2:655:PHE:CE1	27:Z1:534:GLU:CD	2.82	0.56
25:X2:655:PHE:HZ	27:Z2:545:LEU:C	2.11	0.56
27:Z1:352:GLU:CD	27:Z1:410:PHE:HZ	2.10	0.56
27:Z2:35:ILE:CG1	27:Z2:46:TYR:CE2	2.79	0.56
27:Z2:41:ASN:HD22	27:Z2:60:SER:HB3	1.70	0.56
27:Z2:137:TYR:CB	27:Z2:215:VAL:HG12	2.33	0.56
27:Z2:216:LEU:O	27:Z2:269:LYS:HA	2.04	0.56
27:Z2:591:GLN:O	27:Z2:595:GLN:HG2	2.05	0.56
28:a1:1010:ASP:HB3	28:a1:1046:GLY:HA2	1.87	0.56
1:A2:1201:ARG:NE	1:A1:648:TYR:CD1	2.64	0.56
1:A3:1272:GLY:HA3	1:A4:727:ASN:HB3	1.87	0.56
1:A3:1332:ARG:HH12	4:D3:899:THR:HA	1.68	0.56
1:A3:1333:ARG:C	4:D3:887:ALA:HB2	2.30	0.56
6:F1:142:ALA:O	9:I1:1394:ASN:O	2.15	0.56
6:F1:161:ALA:HB3	9:I1:1335:LYS:C	2.30	0.56
6:F2:540:GLU:N	6:F2:540:GLU:OE1	2.37	0.56
7:G1:251:TYR:CE2	15:O2:244:GLU:CB	2.88	0.56
7:G2:251:TYR:C	15:O4:252:VAL:HA	2.30	0.56
9:I1:354:ASP:OD1	9:I1:355:GLU:N	2.38	0.56
9:I2:914:ASN:HB3	15:O3:194:GLU:H	1.69	0.56
9:I2:968:PRO:CB	14:N3:303:SER:OG	2.53	0.56
9:I2:977:ASN:C	15:O3:174:LEU:HB3	2.27	0.56
17:Q1:279:GLY:CA	17:Q1:299:ALA:HA	2.34	0.56
17:Q1:590:LYS:HA	17:Q1:593:ILE:HD12	1.87	0.56
17:Q1:604:ILE:HG23	17:Q1:604:ILE:O	2.03	0.56
17:Q1:656:VAL:O	17:Q1:656:VAL:HG13	2.05	0.56
17:Q2:599:LYS:HD3	17:Q2:603:ILE:HD11	1.87	0.56
19:R2:678:LEU:HG	19:R2:679:LYS:H	1.70	0.56
20:S1:199:THR:HB	20:S1:213:GLU:HB2	1.87	0.56
22:U2:123:LEU:HB2	22:U2:139:ALA:HB3	1.86	0.56
25:X2:637:LEU:C	27:Z2:528:PHE:CZ	2.83	0.56
25:X2:708:GLU:CG	27:Z2:598:LEU:HD21	2.30	0.56
25:X2:711:LEU:CG	26:Y2:1309:ASP:OD2	2.53	0.56
26:Y1:1305:GLN:NE2	27:Z1:595:GLN:HB2	2.17	0.56
26:Y1:1339:PHE:CE2	27:Z1:630:TRP:CD2	2.93	0.56
26:Y2:1392:ARG:NH1	27:Z2:693:ILE:HB	2.20	0.56
27:Z1:544:THR:CB	27:Z2:555:GLU:CA	2.82	0.56
27:Z2:449:ASN:OD1	27:Z2:576:ASP:OD2	2.22	0.56
1:A2:1226:LEU:H	1:A1:643:ALA:C	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1223:GLU:CD	1:A4:647:GLU:HB2	2.30	0.56
1:A3:1332:ARG:HE	4:D3:903:ILE:HG13	0.49	0.56
7:G1:249:ASP:CA	15:O2:247:TRP:HE1	2.18	0.56
9:I1:895:ARG:NH1	15:O1:197:ARG:HB2	2.20	0.56
9:I1:909:ARG:O	15:O1:205:ARG:HD2	2.05	0.56
9:I2:354:ASP:OD1	9:I2:355:GLU:N	2.38	0.56
9:I2:902:GLN:O	13:M3:577:LEU:CG	2.47	0.56
9:I2:982:GLN:NE2	15:O3:179:LEU:CD1	2.67	0.56
13:M3:473:ARG:HH22	13:M4:536:GLU:HB3	1.70	0.56
17:Q1:170:SER:HB2	17:Q1:200:ILE:CD1	2.35	0.56
17:Q1:564:PHE:O	17:Q1:568:LEU:HG	2.05	0.56
17:Q1:588:ILE:HD13	17:Q1:588:ILE:O	2.05	0.56
17:Q1:651:ASN:HA	17:Q1:654:VAL:CG2	2.35	0.56
17:Q1:795:VAL:HG13	17:Q1:796:ASN:N	2.21	0.56
17:Q2:68:ILE:HD13	17:Q2:69:VAL:C	2.30	0.56
17:Q2:351:ILE:HG22	17:Q2:352:TYR:N	2.21	0.56
17:Q2:426:ILE:HD13	17:Q2:477:PHE:HZ	1.70	0.56
17:Q2:543:GLY:HA3	17:Q2:591:PHE:CZ	2.37	0.56
17:Q2:588:ILE:HD13	17:Q2:588:ILE:O	2.05	0.56
17:Q2:673:ILE:HG23	17:Q2:674:ASN:N	2.20	0.56
17:Q2:673:ILE:HG12	17:Q2:677:PHE:HE2	1.69	0.56
17:Q2:760:ILE:HG23	17:Q2:761:ASN:N	2.20	0.56
17:Q2:820:THR:CG2	17:Q2:821:LEU:HD12	2.35	0.56
18:R1:71:GLU:OE1	18:R1:75:TRP:NE1	2.36	0.56
18:R1:557:GLU:OE2	18:R1:558:ILE:HA	2.05	0.56
18:R1:624:SER:O	18:R1:627:THR:HG22	2.05	0.56
18:R1:627:THR:HG23	18:R1:628:PHE:N	2.20	0.56
19:R2:627:THR:HG23	19:R2:628:PHE:N	2.20	0.56
19:R2:690:PHE:CZ	19:R2:694:VAL:HG21	2.40	0.56
22:U1:296:LEU:HG	27:Z1:653:GLN:O	1.89	0.56
23:V2:159:ILE:HG22	23:V2:172:PHE:CE1	2.39	0.56
25:X1:701:GLU:OE2	27:Z1:587:LYS:HD3	2.04	0.56
25:X1:707:LEU:O	25:X1:711:LEU:HG	2.06	0.56
25:X1:807:LEU:HD13	27:Z1:697:CYS:HB2	1.87	0.56
25:X2:721:LEU:CG	27:Z2:612:ILE:HD11	2.34	0.56
26:Y1:1277:LYS:HE2	27:Z1:570:ILE:CB	2.17	0.56
26:Y1:1371:VAL:HB	26:Y1:1372:LYS:CD	2.22	0.56
26:Y1:1383:ALA:C	26:Y2:1364:ASN:HB2	2.30	0.56
27:Z1:182:ILE:HD12	27:Z1:198:ASN:OD1	2.05	0.56
27:Z1:213:PRO:O	27:Z1:272:ILE:HD12	2.05	0.56
27:Z1:248:ASN:HD22	27:Z1:342:TYR:HE1	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:290:PHE:CZ	27:Z1:294:LEU:HB2	2.40	0.56
27:Z1:342:TYR:CE2	27:Z1:344:TYR:CE2	2.74	0.56
27:Z1:397:ILE:O	27:Z1:397:ILE:CG2	2.53	0.56
27:Z1:592:LEU:CD2	27:Z1:595:GLN:OE1	2.53	0.56
27:Z1:682:GLU:OE1	27:Z2:650:SER:CB	2.52	0.56
27:Z2:198:ASN:N	27:Z2:198:ASN:C	2.55	0.56
27:Z2:290:PHE:CZ	27:Z2:294:LEU:HB2	2.40	0.56
27:Z2:389:TRP:NE1	27:Z2:410:PHE:CE1	2.74	0.56
27:Z2:426:LEU:CD2	27:Z2:439:LEU:CD2	2.83	0.56
27:Z2:434:GLN:HB2	27:Z2:580:LYS:HZ1	1.70	0.56
28:a1:1065:THR:HG21	28:a1:1067:LYS:HD2	1.87	0.56
28:a2:1065:THR:HG21	28:a2:1067:LYS:HD2	1.87	0.56
29:b2:29:LYS:CE	29:b2:81:ILE:CD1	2.83	0.56
1:A3:1223:GLU:O	1:A4:594:LEU:HG	2.04	0.56
4:D1:973:GLN:HE21	1:A1:843:ARG:HH22	1.51	0.56
6:F1:69:LYS:N	6:F1:106:ASN:OD1	2.39	0.56
6:F2:1659:MET:O	6:F2:1712:ASN:ND2	2.36	0.56
17:Q1:540:HIS:HD2	17:Q1:544:LYS:HD2	1.67	0.56
17:Q1:887:TRP:CB	17:Q1:902:THR:HG21	2.36	0.56
17:Q1:925:ASN:OD1	18:R1:691:THR:O	2.22	0.56
18:R1:34:ASP:HB3	18:R1:35:PRO:HD3	1.87	0.56
19:R2:624:SER:O	19:R2:627:THR:HG22	2.05	0.56
25:X1:721:LEU:HB3	27:Z1:612:ILE:HD13	1.88	0.56
26:Y2:1305:GLN:NE2	27:Z2:595:GLN:HB2	2.17	0.56
26:Y2:1333:ASP:N	27:Z1:94:PRO:CA	2.52	0.56
26:Y2:1339:PHE:CE2	27:Z2:630:TRP:CD2	2.93	0.56
27:Z1:273:GLN:NE2	27:Z2:708:PHE:HZ	2.04	0.56
27:Z1:280:LYS:HE2	27:Z1:338:ASP:O	2.06	0.56
27:Z1:339:VAL:HB	27:Z1:342:TYR:HD1	1.70	0.56
27:Z1:389:TRP:NE1	27:Z1:410:PHE:CE1	2.73	0.56
27:Z2:207:ALA:HB3	27:Z2:285:PHE:CZ	2.40	0.56
27:Z2:437:LEU:CD1	27:Z2:448:GLN:HE22	1.99	0.56
1:A2:1229:VAL:HG23	1:A1:639:ASN:O	1.93	0.56
6:F1:1659:MET:O	6:F1:1712:ASN:ND2	2.36	0.56
9:I2:889:THR:HA	15:O3:247:TRP:CZ2	2.41	0.56
9:I2:1050:SER:OG	14:N3:292:ARG:HG2	1.92	0.56
9:I2:1051:LYS:CG	14:N3:289:PHE:CD1	2.79	0.56
17:Q1:351:ILE:HG22	17:Q1:352:TYR:N	2.20	0.56
17:Q1:593:ILE:HG12	17:Q1:683:GLU:OE1	2.05	0.56
17:Q1:805:ALA:HB2	17:Q1:815:VAL:HG12	1.86	0.56
17:Q2:228:ILE:HG12	17:Q2:249:ASN:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:629:LEU:HB3	17:Q2:630:THR:C	2.31	0.56
17:Q2:790:HIS:HB2	17:Q2:814:LEU:CD2	2.36	0.56
18:R1:237:ILE:HD11	18:R1:240:HIS:HA	1.87	0.56
18:R1:558:ILE:CG2	18:R1:581:LEU:HD13	2.31	0.56
18:R1:678:LEU:HG	18:R1:679:LYS:H	1.70	0.56
18:R1:690:PHE:CZ	18:R1:694:VAL:HG21	2.40	0.56
19:R2:34:ASP:HB3	19:R2:35:PRO:HD3	1.88	0.56
20:S1:180:LEU:HD11	20:S1:478:PHE:HE1	1.71	0.56
22:U1:241:ARG:HG2	27:Z1:656:SER:HB2	1.87	0.56
23:V2:265:ILE:C	23:V2:267:ARG:H	2.12	0.56
24:W1:245:ILE:HG21	24:W1:311:LEU:HD23	1.88	0.56
24:W1:342:LEU:HD13	24:W1:379:ILE:HD12	1.86	0.56
25:X2:815:GLU:N	26:Y2:1402:LEU:HD22	2.20	0.56
26:Y1:1392:ARG:NH1	27:Z1:693:ILE:HB	2.20	0.56
26:Y1:1409:LEU:HB2	27:Z1:711:LYS:CE	2.32	0.56
26:Y1:1434:PHE:HD1	26:Y2:1429:LYS:NZ	2.04	0.56
26:Y2:1126:LEU:CG	29:b2:63:LYS:O	2.53	0.56
27:Z2:422:ARG:NE	27:Z2:442:ASN:CG	2.64	0.56
1:A2:1227:PRO:HD3	1:A1:647:GLU:CD	2.28	0.56
1:A2:1240:HIS:CE1	4:D1:1033:PRO:HG3	2.40	0.56
1:A3:1402:ASP:CB	4:D3:821:GLU:CD	2.78	0.56
6:F1:139:GLN:HB3	9:I1:1396:ILE:HG13	1.87	0.56
6:F1:273:ALA:H	9:I1:1209:THR:CA	2.04	0.56
7:G1:253:SER:CA	13:M2:595:MET:HE1	2.36	0.56
9:I2:813:ILE:CG2	15:O3:241:SER:HB3	2.32	0.56
9:I2:899:LEU:HD23	13:M3:583:ASP:HB3	1.81	0.56
9:I2:1095:TYR:O	15:O3:268:GLY:HA3	2.06	0.56
10:J1:252:LEU:CD2	15:O1:270:THR:HA	2.35	0.56
17:Q1:510:ASN:CB	17:Q1:511:PRO:HD3	2.33	0.56
17:Q1:987:LEU:CB	17:Q1:1005:LEU:HD23	2.34	0.56
17:Q1:1131:ILE:HG23	17:Q1:1132:LYS:N	2.21	0.56
17:Q2:564:PHE:O	17:Q2:568:LEU:HG	2.06	0.56
17:Q2:887:TRP:CB	17:Q2:902:THR:HG21	2.36	0.56
18:R1:409:LYS:HZ3	18:R1:448:ILE:H	1.52	0.56
18:R1:448:ILE:HG23	18:R1:449:LEU:N	2.19	0.56
18:R1:613:ILE:CG2	18:R1:614:PRO:HD3	2.34	0.56
19:R2:580:PHE:CE2	19:R2:584:ILE:HG12	2.40	0.56
22:U1:209:PRO:HD3	27:Z1:662:LEU:CA	2.33	0.56
22:U1:238:GLY:HA2	22:U1:305:GLY:O	2.05	0.56
25:X1:815:GLU:CA	26:Y1:1402:LEU:HD22	2.27	0.56
26:Y1:1339:PHE:HE2	27:Z1:630:TRP:CG	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1123:GLN:HE22	29:b1:37:LEU:CG	2.11	0.56
26:Y2:1333:ASP:CA	27:Z1:92:GLU:O	2.53	0.56
27:Z1:116:ILE:HD13	27:Z1:125:SER:C	2.30	0.56
27:Z1:326:LEU:HD23	27:Z1:389:TRP:CZ2	2.35	0.56
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HB2	2.40	0.56
27:Z2:204:ASP:OD2	27:Z2:284:PRO:CB	2.52	0.56
27:Z2:252:GLN:CD	27:Z2:334:SER:HG	2.01	0.56
28:a2:966:MSE:HG3	28:a2:1020:GLY:HA3	1.86	0.56
1:A4:624:ASP:C	4:D3:980:ARG:CD	2.73	0.56
6:F1:138:ILE:N	9:I1:1392:VAL:HB	2.21	0.56
6:F2:142:ALA:O	9:I2:1395:LEU:HD23	1.95	0.56
9:I1:908:ARG:CZ	13:M1:551:LEU:HG	2.36	0.56
9:I2:903:GLY:HA2	13:M3:577:LEU:O	2.05	0.56
9:I2:1034:ASP:HB2	15:O3:284:LYS:HG2	1.88	0.56
9:I2:1103:LEU:O	13:M3:615:PRO:HD3	2.02	0.56
17:Q1:267:VAL:O	17:Q1:267:VAL:HG23	2.04	0.56
17:Q1:391:THR:HG22	17:Q1:392:ASP:N	2.20	0.56
17:Q1:610:LEU:CD2	17:Q1:613:ILE:HD12	2.36	0.56
17:Q1:697:ASP:HB3	17:Q1:698:PRO:HD3	1.87	0.56
17:Q1:1058:LEU:O	17:Q1:1062:VAL:HG23	2.06	0.56
17:Q1:1063:LYS:HE2	17:Q1:1067:ASP:OD1	2.06	0.56
17:Q2:543:GLY:CA	17:Q2:591:PHE:HZ	2.16	0.56
17:Q2:610:LEU:HD21	17:Q2:613:ILE:CD1	2.36	0.56
17:Q2:786:LEU:HD12	17:Q2:811:LEU:CD1	2.34	0.56
17:Q2:795:VAL:HG13	17:Q2:796:ASN:N	2.21	0.56
18:R1:469:ARG:O	18:R1:471:PRO:HD3	2.05	0.56
18:R1:528:HIS:CD2	18:R1:580:PHE:HB2	2.41	0.56
19:R2:518:ILE:C	19:R2:518:ILE:HD13	2.31	0.56
21:T1:200:LEU:HD11	21:T1:243:TRP:CD1	2.41	0.56
25:X1:650:GLU:C	25:X1:654:HIS:CE1	2.84	0.56
25:X2:694:ASP:HB2	27:Z2:431:TRP:C	2.00	0.56
25:X2:750:THR:CG2	25:X2:754:ASN:ND2	2.52	0.56
25:X2:778:LYS:CG	25:X2:794:ILE:CG1	2.84	0.56
26:Y2:1294:LYS:HE2	27:Z2:588:TRP:HD1	1.59	0.56
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:CA	2.82	0.56
27:Z1:63:LEU:HD22	27:Z1:89:PHE:CD1	2.41	0.56
27:Z1:158:ASN:CB	27:Z1:161:GLU:HG2	2.36	0.56
27:Z1:592:LEU:HA	27:Z1:595:GLN:HG2	1.87	0.56
27:Z2:592:LEU:HA	27:Z2:595:GLN:HG2	1.87	0.56
29:b2:46:LYS:HE3	29:b2:59:VAL:H	1.67	0.56
6:F2:139:GLN:CG	9:I2:1340:LEU:HD22	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:158:PRO:HB2	9:I2:1337:ALA:HB3	1.86	0.56
9:I1:1051:LYS:HZ3	14:N1:289:PHE:HD2	1.53	0.56
9:I1:1314:LEU:CD2	15:O1:266:GLN:HE21	2.19	0.56
9:I2:885:GLU:C	13:M3:594:LYS:HE2	2.26	0.56
9:I2:1026:TYR:CE1	13:M3:610:SER:N	2.68	0.56
9:I2:1098:LEU:C	15:O3:268:GLY:O	2.49	0.56
9:I2:1103:LEU:HD11	13:M3:611:LYS:CB	2.18	0.56
17:Q1:426:ILE:HD13	17:Q1:477:PHE:HZ	1.70	0.56
17:Q1:629:LEU:HB3	17:Q1:630:THR:C	2.31	0.56
17:Q1:1140:VAL:HG23	17:Q1:1141:ALA:N	2.21	0.56
17:Q2:61:PHE:HB2	17:Q2:69:VAL:HG23	1.87	0.56
18:R1:580:PHE:CE2	18:R1:584:ILE:HG12	2.40	0.56
18:R1:609:SER:O	18:R1:613:ILE:HG22	2.05	0.56
24:W2:232:ARG:NE	24:W2:249:THR:OG1	2.39	0.56
25:X1:700:ILE:C	26:Y1:1298:TYR:HH	2.12	0.56
25:X1:711:LEU:CG	26:Y1:1309:ASP:OD2	2.53	0.56
26:Y2:1277:LYS:HE2	27:Z2:570:ILE:CB	2.17	0.56
26:Y2:1365:ILE:HG22	26:Y2:1383:ALA:HA	1.80	0.56
27:Z1:331:LEU:CD1	27:Z1:345:ASN:HA	2.33	0.56
27:Z1:381:ILE:CD1	27:Z1:420:ILE:HG21	2.35	0.56
27:Z1:422:ARG:NE	27:Z1:442:ASN:CG	2.64	0.56
27:Z2:41:ASN:HA	27:Z2:59:PHE:CZ	2.40	0.56
27:Z2:241:THR:CB	27:Z2:246:LYS:HZ1	2.18	0.56
28:a2:969:ASN:O	28:a2:998:LYS:HG3	2.06	0.56
29:b1:76:PHE:CE1	29:b1:89:PHE:HB2	2.40	0.56
29:b1:82:GLY:C	29:b1:83:PRO:HD3	2.17	0.56
1:A4:625:LEU:CA	4:D3:981:VAL:CG2	2.83	0.56
6:F2:135:VAL:HG11	9:I2:1337:ALA:CB	2.35	0.56
6:F2:257:ARG:NH2	6:F2:285:GLU:OE1	2.39	0.56
9:I1:903:GLY:CA	13:M1:575:TYR:CB	2.84	0.56
9:I2:843:GLU:OE2	15:O3:191:ARG:HD2	1.96	0.56
9:I2:1028:CYS:HB3	13:M3:613:ASP:CG	2.31	0.56
9:I2:1095:TYR:CZ	15:O3:267:ALA:C	2.75	0.56
9:I2:1102:GLN:O	15:O3:275:LEU:HB3	2.05	0.56
17:Q1:543:GLY:CA	17:Q1:591:PHE:HZ	2.16	0.56
17:Q1:791:VAL:HG13	17:Q1:792:LEU:N	2.21	0.56
17:Q1:1013:GLU:HG3	17:Q1:1014:SER:N	2.21	0.56
17:Q2:73:GLN:CD	17:Q2:113:THR:HA	2.31	0.56
17:Q2:697:ASP:HB3	17:Q2:698:PRO:HD3	1.87	0.56
17:Q2:708:TRP:CE2	17:Q2:709:PHE:CE1	2.94	0.56
17:Q2:933:LEU:HD13	17:Q2:933:LEU:C	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:445:CYS:HB3	18:R1:468:LEU:CD2	2.35	0.56
19:R2:635:LEU:HD12	19:R2:655:ILE:HB	1.87	0.56
25:X1:717:LYS:HE3	26:Y1:1320:LEU:HD13	1.82	0.56
25:X2:665:TRP:CE3	25:X2:669:LEU:CD1	2.89	0.56
26:Y1:1345:LEU:CA	26:Y1:1348:LYS:HG2	2.36	0.56
26:Y2:1333:ASP:OD1	27:Z1:109:PHE:CZ	2.41	0.56
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CG	2.83	0.56
26:Y2:1435:LYS:HZ2	27:Z2:225:LEU:CD2	2.16	0.56
27:Z1:399:GLU:CD	27:Z2:263:TRP:HE3	2.13	0.56
27:Z1:537:GLN:C	27:Z2:552:ARG:CG	2.53	0.56
27:Z2:116:ILE:HD13	27:Z2:125:SER:C	2.30	0.56
27:Z2:187:PHE:CD1	27:Z2:194:LEU:HD13	2.41	0.56
6:F2:69:LYS:N	6:F2:106:ASN:OD1	2.39	0.56
9:I1:1051:LYS:HZ1	14:N1:289:PHE:C	2.02	0.56
9:I2:896:PRO:O	15:O3:234:LEU:HD21	2.06	0.56
9:I2:914:ASN:HD22	15:O3:194:GLU:CB	1.82	0.56
9:I2:1102:GLN:OE1	15:O3:269:ILE:O	2.24	0.56
17:Q1:166:ILE:HB	17:Q1:173:ILE:HG21	1.87	0.56
17:Q1:351:ILE:HD12	17:Q1:362:ILE:HD11	1.88	0.56
17:Q1:708:TRP:CE2	17:Q1:709:PHE:CE1	2.94	0.56
17:Q1:760:ILE:HG23	17:Q1:761:ASN:N	2.20	0.56
17:Q1:959:ASN:O	17:Q1:963:LYS:HG3	2.06	0.56
17:Q1:1007:SER:CB	17:Q1:1044:ARG:HD3	2.25	0.56
17:Q2:491:VAL:HG12	17:Q2:495:LYS:HE2	1.86	0.56
17:Q2:532:LYS:CB	17:Q2:581:PRO:HD3	2.30	0.56
17:Q2:589:GLU:HA	17:Q2:589:GLU:OE1	2.05	0.56
17:Q2:1058:LEU:O	17:Q2:1062:VAL:HG23	2.06	0.56
19:R2:222:VAL:CG1	20:S2:256:VAL:HA	2.36	0.56
20:S2:156:THR:HG22	20:S2:514:ARG:HD2	1.88	0.56
21:T2:200:LEU:HD11	21:T2:243:TRP:CD1	2.41	0.56
24:W2:101:SER:HA	24:W2:123:LEU:HA	1.87	0.56
25:X1:679:LEU:O	26:Y1:1281:MET:CE	2.53	0.56
25:X1:742:GLN:HG2	25:X1:743:GLN:HB2	1.82	0.56
25:X1:762:LEU:HD11	26:Y1:1352:VAL:HG13	1.88	0.56
26:Y1:1278:CYS:O	26:Y1:1282:GLN:HG3	2.06	0.56
27:Z1:197:LEU:HB2	27:Z1:302:ILE:HG21	1.85	0.56
27:Z1:198:ASN:N	27:Z1:198:ASN:C	2.55	0.56
27:Z1:307:ILE:CG2	27:Z1:390:ALA:HB1	2.36	0.56
27:Z1:679:GLU:N	27:Z1:679:GLU:C	2.62	0.56
27:Z2:429:ILE:HG21	27:Z2:431:TRP:CE2	2.37	0.56
29:b1:8:THR:N	29:b1:8:THR:CG2	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b1:76:PHE:CD1	29:b1:89:PHE:CB	2.89	0.56
29:b2:49:LEU:HD13	29:b2:57:TRP:CD2	2.41	0.56
4:D1:969:HIS:CB	1:A1:711:VAL:HG21	2.36	0.55
9:I1:77:GLU:OE1	9:I1:77:GLU:N	2.38	0.55
9:I2:1099:ARG:HA	15:O3:272:SER:H	1.71	0.55
17:Q1:346:LEU:HD13	17:Q1:367:ILE:HG23	1.87	0.55
17:Q1:386:PHE:CE2	17:Q1:563:PHE:HD1	2.22	0.55
17:Q1:610:LEU:HD21	17:Q1:613:ILE:CD1	2.35	0.55
17:Q2:298:SER:H	17:Q2:304:PRO:HG3	1.71	0.55
18:R1:406:GLU:HG2	18:R1:409:LYS:HZ1	1.70	0.55
18:R1:449:LEU:C	18:R1:449:LEU:HD13	2.31	0.55
19:R2:527:VAL:O	19:R2:530:ILE:HG22	2.06	0.55
22:U1:243:PHE:CD2	27:Z1:657:TYR:N	2.54	0.55
22:U2:29:SER:C	22:U2:31:GLN:H	2.13	0.55
25:X2:650:GLU:C	25:X2:654:HIS:CE1	2.83	0.55
26:Y2:1301:LYS:O	26:Y2:1305:GLN:HG3	2.06	0.55
26:Y2:1368:LEU:CA	26:Y2:1383:ALA:HB2	2.36	0.55
27:Z2:69:PHE:N	27:Z2:84:ASN:ND2	2.45	0.55
27:Z2:587:LYS:O	27:Z2:591:GLN:CG	2.46	0.55
27:Z2:639:LEU:O	27:Z2:641:PHE:N	2.40	0.55
27:Z2:691:SER:O	27:Z2:695:LYS:HG3	2.05	0.55
29:b1:56:THR:O	29:b1:90:LYS:HA	2.06	0.55
6:F1:1265:GLN:HA	15:O2:252:VAL:CB	2.31	0.55
9:I2:717:GLU:N	9:I2:717:GLU:OE1	2.39	0.55
9:I2:1305:LEU:CG	15:O3:260:LEU:CD1	2.73	0.55
17:Q1:382:ARG:HH12	17:Q1:513:ASP:HA	1.72	0.55
17:Q1:527:ILE:H	17:Q1:527:ILE:CD1	2.19	0.55
17:Q1:588:ILE:HD13	17:Q1:588:ILE:C	2.31	0.55
17:Q1:670:THR:HG21	17:Q1:744:LYS:HZ1	1.72	0.55
17:Q1:847:LEU:CD1	17:Q1:879:ALA:HB1	2.35	0.55
17:Q1:982:GLU:OE2	17:Q1:986:ILE:HG12	2.06	0.55
17:Q2:316:ILE:HD11	17:Q2:331:LEU:HD21	1.87	0.55
17:Q2:588:ILE:HD13	17:Q2:588:ILE:C	2.31	0.55
17:Q2:588:ILE:HG23	17:Q2:589:GLU:N	2.21	0.55
17:Q2:788:TRP:O	17:Q2:792:LEU:HD13	2.06	0.55
17:Q2:960:ILE:HD13	17:Q2:1005:LEU:HD12	1.84	0.55
17:Q2:1043:ARG:NH1	17:Q2:1113:ILE:HG23	2.19	0.55
18:R1:518:ILE:C	18:R1:518:ILE:HD13	2.31	0.55
19:R2:163:ARG:HD3	20:S2:292:ILE:HD11	1.88	0.55
19:R2:210:MET:HE3	20:S2:322:LEU:HD22	1.88	0.55
19:R2:530:ILE:HD13	19:R2:553:ASN:HB2	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:241:ARG:HG2	27:Z1:656:SER:HB3	1.87	0.55
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HB2	2.41	0.55
27:Z1:26:ILE:CG2	27:Z1:440:MET:HG3	2.33	0.55
27:Z1:679:GLU:O	27:Z1:683:LEU:HG	2.06	0.55
27:Z2:209:TYR:HD1	27:Z2:210:PRO:HD3	1.64	0.55
28:a1:969:ASN:O	28:a1:998:LYS:HG3	2.06	0.55
1:A3:1224:PRO:O	1:A4:647:GLU:HG3	2.06	0.55
4:D1:673:LEU:HD12	1:A1:1094:ILE:CG1	2.19	0.55
9:I2:1305:LEU:HB3	15:O3:264:ILE:CG1	2.25	0.55
13:M2:598:GLU:OE1	15:O2:254:ARG:NH1	2.40	0.55
17:Q1:73:GLN:CD	17:Q1:113:THR:HA	2.31	0.55
17:Q1:599:LYS:HD3	17:Q1:603:ILE:HD11	1.87	0.55
17:Q2:166:ILE:HB	17:Q2:173:ILE:HG21	1.87	0.55
17:Q2:1140:VAL:HG23	17:Q2:1141:ALA:N	2.21	0.55
18:R1:163:ARG:HD3	20:S1:292:ILE:HD11	1.88	0.55
18:R1:635:LEU:HD12	18:R1:655:ILE:HB	1.87	0.55
18:R1:677:LEU:HD11	18:R1:724:LEU:HD13	1.88	0.55
19:R2:677:LEU:HD11	19:R2:724:LEU:HD13	1.88	0.55
20:S2:199:THR:HB	20:S2:213:GLU:HB2	1.87	0.55
22:U1:209:PRO:HG3	27:Z1:662:LEU:CG	2.36	0.55
24:W1:530:LYS:CA	24:W1:743:ASN:O	2.54	0.55
25:X1:700:ILE:CD1	26:Y1:1298:TYR:HD1	2.07	0.55
25:X1:807:LEU:CD2	27:Z1:698:ASN:CA	2.54	0.55
25:X2:776:PHE:CE2	26:Y2:1369:PHE:CD1	2.90	0.55
26:Y2:1334:LEU:HB3	27:Z1:105:ILE:O	2.02	0.55
26:Y2:1365:ILE:HB	26:Y2:1383:ALA:O	1.98	0.55
27:Z1:164:ILE:CD1	27:Z1:277:ARG:HH12	2.09	0.55
27:Z1:591:GLN:O	27:Z1:595:GLN:HG2	2.05	0.55
27:Z2:248:ASN:HD22	27:Z2:342:TYR:HE1	1.53	0.55
27:Z2:263:TRP:HD1	27:Z2:270:VAL:HG21	1.70	0.55
27:Z2:592:LEU:CD2	27:Z2:595:GLN:OE1	2.54	0.55
1:A3:871:ASN:CA	4:D1:515:ASN:CB	2.44	0.55
6:F1:159:ALA:HA	9:I1:1335:LYS:CG	2.25	0.55
6:F1:197:ASP:OD1	6:F1:295:GLN:NE2	2.36	0.55
6:F1:1392:LEU:CD1	15:O2:259:ASP:OD1	2.55	0.55
6:F2:143:GLY:N	9:I2:1395:LEU:HG	2.19	0.55
9:I1:925:LEU:CD1	15:O1:184:ARG:CG	2.85	0.55
9:I2:917:TYR:CE1	15:O3:187:ASN:C	2.78	0.55
9:I2:965:ALA:CB	15:O3:182:THR:CG2	2.81	0.55
9:I2:1049:LEU:CB	14:N3:293:LYS:C	2.76	0.55
9:I2:1112:SER:HB3	10:J2:241:THR:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1256:TYR:O	15:O3:256:TYR:HE1	1.74	0.55
17:Q1:552:THR:O	17:Q1:556:HIS:HB2	2.07	0.55
17:Q1:606:GLN:HG3	17:Q1:608:ASP:H	1.72	0.55
17:Q1:633:THR:HG23	17:Q1:634:VAL:N	2.20	0.55
17:Q2:170:SER:HB2	17:Q2:200:ILE:CD1	2.35	0.55
17:Q2:391:THR:HG22	17:Q2:392:ASP:N	2.20	0.55
17:Q2:853:LYS:O	17:Q2:853:LYS:HG3	2.07	0.55
18:R1:527:VAL:O	18:R1:530:ILE:HG22	2.05	0.55
18:R1:691:THR:HG21	18:R1:718:VAL:HG21	1.87	0.55
21:T1:117:LEU:HB2	21:T1:153:TRP:NE1	2.20	0.55
25:X1:750:THR:CG2	25:X1:754:ASN:ND2	2.52	0.55
25:X2:687:GLU:CD	27:Z2:448:GLN:HA	2.32	0.55
26:Y1:1301:LYS:O	26:Y1:1305:GLN:HG3	2.07	0.55
27:Z1:124:LYS:CD	27:Z1:126:SER:H	2.16	0.55
27:Z1:158:ASN:CG	27:Z1:161:GLU:OE2	2.49	0.55
27:Z2:285:PHE:HE1	27:Z2:333:MET:CE	2.20	0.55
1:A2:1204:TRP:CE3	1:A1:648:TYR:HB3	2.42	0.55
1:A2:1226:LEU:HD13	1:A1:646:ILE:HD12	1.87	0.55
1:A2:1228:TYR:CE2	1:A1:639:ASN:HB3	2.41	0.55
1:A2:1230:TYR:CD2	1:A1:590:SER:C	2.84	0.55
1:A4:521:ASN:CG	4:D3:1019:ARG:HH22	2.12	0.55
4:D1:672:SER:OG	1:A1:1094:ILE:CD1	2.53	0.55
6:F1:1556:GLN:N	6:F1:1630:GLU:OE1	2.40	0.55
9:I1:908:ARG:CA	15:O1:209:LEU:HD11	2.35	0.55
9:I1:919:ALA:O	15:O1:191:ARG:N	2.39	0.55
9:I2:1034:ASP:O	15:O3:284:LYS:HD3	2.07	0.55
9:I2:1308:THR:HA	14:N3:413:VAL:HG12	1.86	0.55
17:Q1:62:THR:O	17:Q1:68:ILE:HG12	2.06	0.55
17:Q1:386:PHE:CZ	17:Q1:563:PHE:HD1	2.25	0.55
17:Q1:465:LEU:HD13	17:Q1:465:LEU:C	2.32	0.55
17:Q1:865:PRO:O	17:Q1:869:ASP:HB3	2.07	0.55
17:Q1:877:GLU:OE1	17:Q1:889:GLN:HB2	2.07	0.55
17:Q1:957:GLU:CD	17:Q1:997:VAL:HG22	2.32	0.55
17:Q1:969:VAL:HG12	17:Q1:970:GLN:N	2.22	0.55
17:Q1:1002:LEU:HD23	17:Q1:1021:LEU:HD13	1.89	0.55
18:R1:222:VAL:CG1	20:S1:256:VAL:HA	2.36	0.55
18:R1:539:LEU:HD13	18:R1:539:LEU:C	2.31	0.55
19:R2:528:HIS:CD2	19:R2:580:PHE:HB2	2.40	0.55
23:V1:461:MET:O	23:V1:465:MET:HG3	2.07	0.55
24:W1:403:ASP:N	24:W1:723:PHE:O	2.25	0.55
25:X1:714:PHE:HE2	26:Y1:1316:GLU:HB2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:685:MET:CE	27:Z2:13:PHE:CZ	2.76	0.55
25:X2:778:LYS:HZ3	25:X2:795:LYS:CB	2.12	0.55
25:X2:807:LEU:HD13	27:Z2:697:CYS:HB2	1.87	0.55
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:NZ	2.74	0.55
26:Y2:1452:PHE:CE2	27:Z2:402:LEU:CD1	2.88	0.55
27:Z1:63:LEU:HD11	27:Z1:69:PHE:CE2	2.42	0.55
27:Z1:187:PHE:CD1	27:Z1:194:LEU:HD13	2.41	0.55
27:Z1:328:PHE:HE1	27:Z1:330:ASP:HB2	1.71	0.55
27:Z2:437:LEU:HD12	27:Z2:448:GLN:HE21	0.59	0.55
29:b1:46:LYS:HG3	29:b1:57:TRP:O	2.06	0.55
1:A3:1402:ASP:HB2	4:D3:821:GLU:CD	2.31	0.55
6:F1:1265:GLN:OE1	15:O2:248:SER:HB2	2.05	0.55
6:F1:1290:VAL:HG12	6:F1:1290:VAL:O	2.06	0.55
9:I1:465:GLU:N	9:I1:465:GLU:OE1	2.38	0.55
9:I2:841:PHE:O	15:O3:190:ARG:CD	2.53	0.55
9:I2:964:SER:CB	16:P3:153:GLN:N	2.69	0.55
9:I2:1172:TYR:HB2	15:O3:273:ASP:CG	2.30	0.55
17:Q1:60:VAL:O	17:Q1:60:VAL:HG13	2.05	0.55
17:Q1:394:LYS:CG	17:Q1:395:PHE:H	2.19	0.55
17:Q1:688:THR:CG2	17:Q1:692:GLU:HB2	2.37	0.55
17:Q2:60:VAL:O	17:Q2:60:VAL:HG13	2.06	0.55
17:Q2:215:GLU:HB3	17:Q2:216:PRO:HD3	1.88	0.55
17:Q2:267:VAL:O	17:Q2:267:VAL:HG23	2.04	0.55
17:Q2:316:ILE:HG13	17:Q2:317:LEU:N	2.20	0.55
17:Q2:590:LYS:O	17:Q2:594:LEU:HD13	2.07	0.55
17:Q2:606:GLN:HG3	17:Q2:608:ASP:H	1.72	0.55
17:Q2:610:LEU:CD2	17:Q2:613:ILE:HD12	2.36	0.55
17:Q2:615:GLU:CB	17:Q2:645:ILE:HG12	2.37	0.55
17:Q2:633:THR:HG23	17:Q2:634:VAL:N	2.20	0.55
17:Q2:650:LEU:CD1	17:Q2:666:LYS:HA	2.37	0.55
17:Q2:791:VAL:HG13	17:Q2:792:LEU:N	2.21	0.55
17:Q2:1063:LYS:HE2	17:Q2:1067:ASP:OD1	2.06	0.55
17:Q2:1071:PRO:CG	17:Q2:1155:VAL:HG21	2.37	0.55
19:R2:410:SER:HA	19:R2:436:LEU:HD11	1.88	0.55
20:S1:567:LEU:O	21:T1:86:ASN:ND2	2.40	0.55
22:U1:289:GLN:CG	25:X1:794:ILE:O	2.47	0.55
23:V1:163:LYS:HB2	23:V1:172:PHE:CE1	2.41	0.55
25:X1:725:VAL:CG2	27:Z1:612:ILE:HG23	2.27	0.55
25:X2:658:TYR:CE2	27:Z2:549:ILE:HD13	2.35	0.55
25:X2:662:ILE:HD13	27:Z1:541:LYS:HZ1	1.66	0.55
25:X2:745:TYR:CB	27:Z1:104:SER:HB2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1366:LEU:HA	26:Y2:1383:ALA:C	2.30	0.55
27:Z1:31:ASN:HA	27:Z1:368:GLU:CD	2.23	0.55
27:Z1:639:LEU:O	27:Z1:641:PHE:N	2.40	0.55
27:Z2:209:TYR:N	27:Z2:210:PRO:HD2	2.21	0.55
27:Z2:263:TRP:CZ3	27:Z2:265:SER:CB	2.74	0.55
27:Z2:417:ILE:CG2	27:Z2:448:GLN:HE22	2.12	0.55
27:Z2:434:GLN:HB3	27:Z2:580:LYS:NZ	2.01	0.55
27:Z2:448:GLN:CD	27:Z2:573:LYS:HZ1	2.10	0.55
29:b1:32:LEU:CD2	29:b1:41:ILE:HD13	2.37	0.55
29:b2:29:LYS:HG2	29:b2:81:ILE:CD1	2.30	0.55
1:A3:1223:GLU:CG	1:A4:644:ALA:HA	2.27	0.55
1:A3:1223:GLU:HG3	1:A4:648:TYR:CD1	2.41	0.55
1:A4:127:HIS:CE1	4:D3:1009:ARG:CB	2.89	0.55
6:F1:1806:ARG:O	14:N2:412:ASN:CB	2.55	0.55
6:F2:1556:GLN:N	6:F2:1630:GLU:OE1	2.40	0.55
9:I1:1112:SER:CB	10:J1:241:THR:HB	2.37	0.55
9:I2:1112:SER:CB	10:J2:241:THR:HB	2.37	0.55
17:Q1:298:SER:H	17:Q1:304:PRO:HG3	1.71	0.55
17:Q1:681:ILE:HG21	17:Q1:750:TYR:HE1	1.72	0.55
17:Q1:933:LEU:HD13	17:Q1:933:LEU:C	2.31	0.55
17:Q2:291:ILE:HD13	17:Q2:311:ASN:CB	2.36	0.55
17:Q2:351:ILE:HD12	17:Q2:362:ILE:HD11	1.89	0.55
17:Q2:527:ILE:H	17:Q2:527:ILE:CD1	2.19	0.55
17:Q2:957:GLU:CD	17:Q2:997:VAL:HG22	2.32	0.55
18:R1:210:MET:HE3	20:S1:322:LEU:HD22	1.88	0.55
19:R2:543:VAL:HG23	19:R2:544:LYS:N	2.20	0.55
24:W1:406:ARG:HD3	24:W1:720:PHE:CB	2.37	0.55
24:W2:288:VAL:HG12	24:W2:300:MET:HB3	1.88	0.55
25:X2:695:GLN:HE21	27:Z2:431:TRP:CD2	1.64	0.55
26:Y1:1277:LYS:HE3	27:Z1:570:ILE:C	2.32	0.55
26:Y1:1298:TYR:CE1	26:Y1:1302:ASP:OD2	2.60	0.55
26:Y2:1345:LEU:CA	26:Y2:1348:LYS:HG2	2.36	0.55
26:Y2:1369:PHE:HE2	27:Z2:683:LEU:CD2	2.15	0.55
27:Z1:186:GLU:HG3	27:Z1:303:ALA:HA	1.89	0.55
27:Z1:209:TYR:HD1	27:Z1:210:PRO:HD3	1.65	0.55
27:Z1:326:LEU:CB	27:Z1:352:GLU:CG	2.83	0.55
27:Z1:328:PHE:CZ	27:Z1:349:VAL:HG21	2.42	0.55
27:Z2:88:ILE:HD12	27:Z2:114:TYR:CD2	2.42	0.55
27:Z2:102:ASP:HB3	27:Z2:105:ILE:HG13	1.86	0.55
27:Z2:145:LEU:HD21	27:Z2:182:ILE:HG21	1.87	0.55
27:Z2:358:ARG:CZ	27:Z2:382:GLN:OE1	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:140:GLU:O	9:I2:1394:ASN:HB3	2.07	0.55
7:G1:256:GLN:N	15:O2:245:GLU:CB	2.63	0.55
9:I1:912:VAL:HG22	15:O1:198:ARG:NH1	2.16	0.55
9:I2:1035:GLN:CD	16:P3:142:LEU:C	2.60	0.55
13:M3:598:GLU:OE1	15:O3:254:ARG:NH1	2.40	0.55
17:Q1:291:ILE:CD1	17:Q1:311:ASN:HD22	2.20	0.55
17:Q1:714:TYR:HD2	17:Q1:717:CYS:SG	2.24	0.55
17:Q2:917:LEU:O	17:Q2:917:LEU:HD23	2.07	0.55
17:Q2:959:ASN:O	17:Q2:963:LYS:HG3	2.06	0.55
17:Q2:1005:LEU:HD13	17:Q2:1005:LEU:C	2.32	0.55
17:Q2:1013:GLU:HG3	17:Q2:1014:SER:N	2.21	0.55
19:R2:210:MET:O	20:S2:325:TYR:OH	2.21	0.55
20:S2:180:LEU:HD11	20:S2:478:PHE:HE1	1.71	0.55
22:U1:207:LYS:HB2	27:Z1:662:LEU:C	2.30	0.55
23:V1:159:ILE:HG21	23:V1:176:GLU:HG2	1.87	0.55
23:V2:163:LYS:HB2	23:V2:172:PHE:CE1	2.41	0.55
24:W2:245:ILE:HG21	24:W2:311:LEU:HD23	1.88	0.55
25:X2:666:ASP:OD1	27:Z2:556:GLN:NE2	2.25	0.55
25:X2:680:TYR:HH	27:Z2:439:LEU:HG	1.72	0.55
25:X2:714:PHE:HZ	27:Z2:609:LEU:CD2	2.05	0.55
26:Y1:1385:LEU:HD12	27:Z1:683:LEU:HD21	1.85	0.55
27:Z1:153:MET:SD	27:Z1:211:PHE:CE2	2.95	0.55
27:Z2:12:ILE:CD1	27:Z2:44:ARG:HB3	2.35	0.55
27:Z2:63:LEU:HD22	27:Z2:89:PHE:CD1	2.41	0.55
27:Z2:209:TYR:CE2	27:Z2:335:MET:HA	2.42	0.55
27:Z2:280:LYS:HE2	27:Z2:338:ASP:O	2.06	0.55
27:Z2:311:GLN:OE1	27:Z2:313:GLU:OE2	2.25	0.55
1:A2:1196:GLU:O	1:A1:591:ASP:C	2.50	0.55
1:A2:1201:ARG:CD	1:A1:647:GLU:HB3	2.33	0.55
1:A4:127:HIS:HE1	4:D3:1009:ARG:N	1.96	0.55
7:G1:255:LEU:CD2	15:O2:244:GLU:N	2.69	0.55
9:I1:909:ARG:C	13:M1:548:LEU:HD21	2.07	0.55
9:I1:1038:ILE:HD11	15:O1:179:LEU:HD13	1.67	0.55
9:I2:922:ASP:N	16:P3:157:GLU:HG3	2.22	0.55
9:I2:1049:LEU:C	16:P3:142:LEU:N	2.58	0.55
9:I2:1305:LEU:HB2	15:O3:263:GLN:CG	2.37	0.55
10:J2:248:VAL:CG1	14:N3:428:ASP:OD2	2.55	0.55
17:Q1:61:PHE:HB2	17:Q1:69:VAL:HG23	1.87	0.55
17:Q1:416:ILE:O	17:Q1:417:LEU:HD23	2.06	0.55
17:Q1:528:GLU:C	17:Q1:579:ILE:HG21	2.32	0.55
17:Q1:788:TRP:O	17:Q1:792:LEU:HD13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:820:THR:CG2	17:Q1:821:LEU:HD12	2.35	0.55
17:Q1:877:GLU:CB	17:Q1:889:GLN:HB2	2.37	0.55
17:Q1:1005:LEU:HD13	17:Q1:1005:LEU:C	2.31	0.55
17:Q2:416:ILE:O	17:Q2:417:LEU:HD23	2.06	0.55
17:Q2:656:VAL:O	17:Q2:656:VAL:HG13	2.05	0.55
17:Q2:801:CYS:SG	17:Q2:814:LEU:HD13	2.47	0.55
17:Q2:982:GLU:OE2	17:Q2:986:ILE:HG12	2.06	0.55
22:U1:207:LYS:HD3	27:Z1:663:THR:O	0.73	0.55
22:U2:15:VAL:O	23:V2:70:LYS:HD2	2.07	0.55
25:X2:655:PHE:CE1	27:Z2:545:LEU:CB	2.72	0.55
25:X2:707:LEU:O	25:X2:711:LEU:HG	2.06	0.55
25:X2:778:LYS:CB	25:X2:794:ILE:N	2.69	0.55
26:Y1:1392:ARG:NH2	27:Z1:690:ASP:HA	2.09	0.55
26:Y2:1412:GLU:CG	27:Z1:254:GLN:HB2	2.24	0.55
27:Z1:45:TRP:NE1	27:Z1:95:TRP:CZ3	2.47	0.55
27:Z1:81:CYS:HB2	27:Z1:132:PHE:HZ	1.70	0.55
27:Z1:691:SER:O	27:Z1:695:LYS:HG3	2.05	0.55
27:Z2:389:TRP:CE2	27:Z2:410:PHE:HE1	1.99	0.55
29:b1:57:TRP:CH2	29:b1:90:LYS:HB2	2.41	0.55
29:b2:55:ASN:O	29:b2:57:TRP:N	2.40	0.55
1:A2:1229:VAL:CG2	1:A1:643:ALA:CB	2.85	0.55
1:A3:1327:VAL:O	4:D3:876:SER:HB3	2.04	0.55
6:F1:650:ASN:OD1	6:F1:651:THR:N	2.40	0.55
6:F2:650:ASN:OD1	6:F2:651:THR:N	2.40	0.55
6:F2:1290:VAL:HG12	6:F2:1290:VAL:O	2.06	0.55
9:I1:904:GLU:OE2	13:M1:577:LEU:HD12	2.06	0.55
9:I1:918:SER:O	15:O1:193:ALA:HB3	2.06	0.55
9:I1:1051:LYS:HE3	14:N1:290:VAL:HA	1.88	0.55
9:I2:978:LYS:HA	15:O3:174:LEU:C	2.18	0.55
9:I2:1165:SER:HB3	15:O3:269:ILE:CD1	2.24	0.55
17:Q1:539:PHE:CE1	17:Q1:567:PHE:CD2	2.95	0.55
17:Q1:644:VAL:HG13	17:Q1:645:ILE:N	2.22	0.55
17:Q1:928:LYS:O	17:Q1:932:LEU:HG	2.06	0.55
17:Q2:969:VAL:HG12	17:Q2:970:GLN:N	2.21	0.55
22:U2:128:LEU:HD23	22:U2:169:PHE:HB3	1.89	0.55
23:V1:280:VAL:HG21	23:V1:321:ALA:HB3	1.89	0.55
23:V2:461:MET:O	23:V2:465:MET:HG3	2.07	0.55
25:X1:821:ILE:HD11	27:Z1:708:PHE:HE1	1.72	0.55
25:X2:700:ILE:CA	26:Y2:1298:TYR:HE1	2.08	0.55
26:Y1:1228:LEU:HD12	27:Z1:539:ILE:HG23	1.88	0.55
26:Y2:1123:GLN:CD	29:b1:37:LEU:HD21	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:124:LYS:CD	27:Z1:125:SER:C	2.59	0.55
27:Z2:63:LEU:HD11	27:Z2:69:PHE:CE2	2.42	0.55
27:Z2:328:PHE:CZ	27:Z2:349:VAL:HG21	2.42	0.55
1:A2:1328:ARG:O	4:D1:902:SER:CB	2.55	0.54
6:F1:1806:ARG:CB	14:N2:412:ASN:ND2	2.64	0.54
9:I2:893:LEU:HD11	15:O3:243:LEU:CB	2.30	0.54
9:I2:1304:ASN:ND2	14:N3:414:ALA:H	2.04	0.54
13:M4:598:GLU:OE1	15:O4:254:ARG:NH1	2.40	0.54
17:Q1:332:LYS:HD2	17:Q1:332:LYS:C	2.32	0.54
17:Q1:506:LYS:CE	17:Q1:563:PHE:HZ	2.21	0.54
17:Q1:615:GLU:CB	17:Q1:645:ILE:HG12	2.37	0.54
17:Q1:650:LEU:CD1	17:Q1:666:LYS:HA	2.37	0.54
17:Q1:680:GLY:HA2	17:Q1:683:GLU:HB3	1.89	0.54
17:Q1:708:TRP:CZ2	17:Q1:709:PHE:CE1	2.95	0.54
17:Q1:917:LEU:O	17:Q1:917:LEU:HD23	2.07	0.54
17:Q1:1071:PRO:CG	17:Q1:1155:VAL:HG21	2.37	0.54
17:Q2:708:TRP:CZ2	17:Q2:709:PHE:CE1	2.95	0.54
17:Q2:824:ASN:HD21	17:Q2:833:GLU:CG	2.20	0.54
17:Q2:1043:ARG:CG	17:Q2:1120:VAL:HG21	2.35	0.54
17:Q2:1131:ILE:HG23	17:Q2:1132:LYS:N	2.21	0.54
18:R1:658:LEU:O	18:R1:662:PHE:HD1	1.90	0.54
21:T1:95:HIS:CE1	21:T1:97:VAL:HG22	2.42	0.54
22:U1:243:PHE:CB	27:Z1:657:TYR:CA	2.80	0.54
22:U1:324:ASP:HB3	23:V1:64:LYS:HB3	1.89	0.54
23:V2:186:ARG:HA	23:V2:190:PHE:HB2	1.90	0.54
25:X1:797:LEU:CB	26:Y1:1372:LYS:C	2.47	0.54
25:X2:778:LYS:HG3	25:X2:794:ILE:CB	2.38	0.54
26:Y1:1450:GLY:HA2	27:Z1:328:PHE:CZ	2.42	0.54
27:Z1:383:GLN:CD	27:Z1:417:ILE:CG2	2.80	0.54
27:Z1:522:GLU:O	27:Z1:526:GLU:OE2	2.25	0.54
27:Z2:52:SER:O	27:Z2:53:LEU:HG	2.07	0.54
27:Z2:326:LEU:HD23	27:Z2:410:PHE:CZ	2.42	0.54
27:Z2:331:LEU:CD1	27:Z2:345:ASN:HA	2.33	0.54
29:b1:70:THR:N	29:b2:58:HIS:CE1	2.74	0.54
6:F1:257:ARG:NH2	6:F1:285:GLU:OE1	2.39	0.54
6:F1:1336:GLU:N	6:F1:1336:GLU:OE1	2.36	0.54
9:I1:916:ALA:CA	13:M1:534:GLN:HE21	2.20	0.54
9:I1:977:ASN:HB2	15:O1:174:LEU:O	2.03	0.54
9:I1:1315:GLN:HG3	15:O1:266:GLN:O	2.06	0.54
9:I2:919:ALA:CB	16:P3:156:GLY:HA3	2.37	0.54
9:I2:964:SER:HA	16:P3:149:ARG:HA	0.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1106:LYS:CD	15:O3:275:LEU:HD12	2.31	0.54
9:I2:1255:HIS:H	14:N3:408:MET:HA	1.72	0.54
10:J1:250:THR:CB	15:O1:277:GLU:HA	2.37	0.54
17:Q1:588:ILE:HG23	17:Q1:589:GLU:N	2.21	0.54
17:Q1:590:LYS:O	17:Q1:594:LEU:HD13	2.07	0.54
17:Q1:1016:PHE:HE1	17:Q1:1065:VAL:HG13	1.71	0.54
17:Q2:284:TYR:CD1	17:Q2:347:PHE:CZ	2.95	0.54
17:Q2:332:LYS:HD2	17:Q2:332:LYS:C	2.32	0.54
17:Q2:539:PHE:CE1	17:Q2:567:PHE:CD2	2.95	0.54
19:R2:155:SER:HA	20:S2:351:ILE:HA	1.88	0.54
19:R2:550:MET:CB	19:R2:587:TYR:HE2	2.20	0.54
22:U1:340:LYS:NZ	27:Z1:646:HIS:CE1	2.73	0.54
24:W1:288:VAL:HG12	24:W1:300:MET:HB3	1.88	0.54
25:X1:714:PHE:HZ	27:Z1:609:LEU:CD2	2.05	0.54
25:X2:687:GLU:CD	27:Z2:448:GLN:CA	2.78	0.54
25:X2:710:PHE:HZ	26:Y2:1313:ALA:HB1	1.70	0.54
26:Y2:1278:CYS:O	26:Y2:1282:GLN:HG3	2.07	0.54
27:Z1:69:PHE:N	27:Z1:84:ASN:ND2	2.45	0.54
27:Z1:285:PHE:HE1	27:Z1:333:MET:CE	2.20	0.54
27:Z1:366:LEU:HD23	27:Z1:374:TYR:HE2	1.63	0.54
27:Z1:374:TYR:CD1	27:Z1:383:GLN:HG2	2.42	0.54
27:Z2:8:SER:HG	27:Z2:447:PHE:HD1	1.48	0.54
27:Z2:26:ILE:HG22	27:Z2:440:MET:SD	2.43	0.54
27:Z2:41:ASN:HD21	27:Z2:59:PHE:C	2.15	0.54
27:Z2:158:ASN:CB	27:Z2:161:GLU:HG2	2.36	0.54
27:Z2:255:PHE:HD2	27:Z2:335:MET:HE1	1.73	0.54
29:b1:8:THR:N	29:b1:8:THR:HG23	2.20	0.54
29:b1:50:ASP:OD1	29:b1:57:TRP:HB2	2.07	0.54
1:A3:1402:ASP:CB	4:D3:821:GLU:OE2	2.54	0.54
6:F1:1392:LEU:HD11	15:O2:259:ASP:OD1	2.07	0.54
9:I1:961:ARG:NH1	15:O1:190:ARG:HB2	2.21	0.54
9:I2:891:LEU:C	13:M3:591:ASP:H	1.49	0.54
9:I2:928:LEU:CB	15:O3:179:LEU:CD2	2.75	0.54
9:I2:1102:GLN:HG2	15:O3:274:GLY:N	1.94	0.54
13:M1:598:GLU:OE1	15:O1:254:ARG:NH1	2.40	0.54
17:Q1:215:GLU:HB3	17:Q1:216:PRO:HD3	1.88	0.54
17:Q1:382:ARG:NH1	17:Q1:513:ASP:N	2.54	0.54
17:Q1:790:HIS:HB2	17:Q1:814:LEU:CD2	2.36	0.54
17:Q1:903:LEU:O	17:Q1:906:ILE:HG12	2.08	0.54
17:Q2:365:THR:HG21	17:Q2:433:LEU:HD21	1.90	0.54
17:Q2:394:LYS:CG	17:Q2:395:PHE:H	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:465:LEU:HD13	17:Q2:465:LEU:C	2.32	0.54
17:Q2:506:LYS:CE	17:Q2:563:PHE:HZ	2.21	0.54
17:Q2:512:ILE:HG22	17:Q2:514:PHE:H	1.73	0.54
17:Q2:922:LEU:HD21	19:R2:688:LEU:HD23	1.88	0.54
18:R1:155:SER:HA	20:S1:351:ILE:HA	1.88	0.54
18:R1:550:MET:HB3	18:R1:587:TYR:CE2	2.43	0.54
19:R2:539:LEU:HD13	19:R2:539:LEU:C	2.31	0.54
19:R2:682:LYS:HG2	19:R2:683:PHE:N	2.18	0.54
21:T1:236:GLN:HB2	21:T1:243:TRP:CE3	2.42	0.54
21:T2:49:LEU:HB3	21:T2:82:TRP:CZ3	2.42	0.54
21:T2:236:GLN:HB2	21:T2:243:TRP:CE3	2.42	0.54
25:X1:790:ASN:HB2	27:Z1:669:THR:C	2.25	0.54
25:X1:800:HIS:N	26:Y1:1372:LYS:CA	2.70	0.54
25:X2:693:ILE:HB	27:Z2:7:LEU:HD21	1.84	0.54
26:Y2:1277:LYS:HE3	27:Z2:570:ILE:C	2.32	0.54
26:Y2:1403:ARG:HE	27:Z2:704:VAL:CG2	2.20	0.54
27:Z1:12:ILE:CD1	27:Z1:54:TYR:CB	2.72	0.54
27:Z1:41:ASN:HD21	27:Z1:59:PHE:C	2.15	0.54
27:Z1:52:SER:O	27:Z1:53:LEU:HG	2.07	0.54
27:Z1:88:ILE:HD12	27:Z1:114:TYR:CD2	2.42	0.54
27:Z2:129:LYS:CD	27:Z2:145:LEU:CD2	2.72	0.54
27:Z2:158:ASN:CG	27:Z2:161:GLU:OE2	2.50	0.54
28:a2:983:SER:CB	28:a2:986:GLN:HG2	2.35	0.54
1:A2:1204:TRP:HB2	1:A1:595:GLU:CG	2.36	0.54
6:F1:1807:GLU:CA	14:N2:411:GLN:NE2	2.70	0.54
6:F2:1263:MET:O	6:F2:1267:ARG:N	2.41	0.54
9:I1:904:GLU:HG2	13:M1:573:ARG:O	1.93	0.54
9:I1:1314:LEU:HD22	15:O1:266:GLN:NE2	2.20	0.54
9:I1:1425:TYR:OH	9:I1:1482:ASP:OD2	2.23	0.54
9:I2:909:ARG:H	13:M3:580:LYS:HZ3	1.55	0.54
9:I2:1030:ARG:NH2	13:M3:608:LYS:N	2.56	0.54
9:I2:1305:LEU:CD1	15:O3:260:LEU:HD12	2.37	0.54
17:Q1:228:ILE:HG12	17:Q1:249:ASN:HB2	1.88	0.54
17:Q1:333:ILE:HD11	17:Q1:349:SER:HB2	1.90	0.54
17:Q1:361:TYR:O	17:Q1:511:PRO:CG	2.55	0.54
17:Q1:564:PHE:CZ	17:Q1:588:ILE:HD13	2.37	0.54
17:Q1:584:LYS:HZ1	17:Q1:590:LYS:HB2	1.71	0.54
17:Q1:684:GLU:HA	17:Q1:688:THR:HB	1.90	0.54
17:Q1:824:ASN:HD21	17:Q1:833:GLU:CG	2.20	0.54
17:Q1:1047:LEU:C	17:Q1:1047:LEU:HD13	2.32	0.54
17:Q2:62:THR:O	17:Q2:68:ILE:HG12	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:429:VAL:HG12	17:Q2:430:ASN:N	2.21	0.54
17:Q2:688:THR:CG2	17:Q2:692:GLU:HB2	2.37	0.54
17:Q2:1016:PHE:CE2	17:Q2:1020:ARG:HG3	2.43	0.54
22:U1:15:VAL:O	23:V1:70:LYS:HD2	2.07	0.54
22:U1:206:ALA:CA	27:Z1:665:ILE:HG13	2.34	0.54
25:X1:658:TYR:HD1	26:Y1:1239:PHE:CE1	2.24	0.54
25:X2:774:ASN:HA	25:X2:797:LEU:HD11	1.65	0.54
25:X2:791:ILE:HG23	25:X2:794:ILE:HD11	1.89	0.54
25:X2:821:ILE:HD11	27:Z2:708:PHE:HE1	1.72	0.54
26:Y2:1298:TYR:CE1	26:Y2:1302:ASP:OD2	2.60	0.54
27:Z1:30:GLN:O	27:Z1:33:THR:OG1	2.22	0.54
27:Z1:35:ILE:CG1	27:Z1:46:TYR:CE2	2.79	0.54
27:Z1:311:GLN:OE1	27:Z1:313:GLU:OE2	2.25	0.54
27:Z1:369:GLN:OE1	27:Z1:372:LYS:NZ	2.36	0.54
27:Z1:541:LYS:HA	27:Z2:554:HIS:N	2.19	0.54
27:Z1:641:PHE:HZ	27:Z1:645:VAL:HG22	1.61	0.54
27:Z2:189:LYS:C	27:Z2:311:GLN:CG	2.79	0.54
27:Z2:352:GLU:CD	27:Z2:410:PHE:HZ	2.10	0.54
29:b1:21:LYS:HG2	29:b1:77:VAL:CG1	2.38	0.54
29:b1:25:LEU:HD21	29:b1:79:PHE:CZ	2.31	0.54
29:b1:36:GLN:O	29:b1:37:LEU:C	2.51	0.54
1:A3:871:ASN:CB	4:D1:515:ASN:CG	2.80	0.54
1:A3:1086:LYS:HB3	4:D3:1096:TYR:CD2	2.41	0.54
1:A4:827:ILE:CG1	1:A4:849:SER:N	2.71	0.54
6:F1:142:ALA:HB1	9:I1:1395:LEU:CA	2.37	0.54
6:F1:990:GLN:HG2	9:I1:1394:ASN:HD22	1.72	0.54
6:F2:142:ALA:CB	9:I2:1395:LEU:CD2	2.81	0.54
9:I1:624:GLU:O	9:I1:627:ASN:ND2	2.40	0.54
9:I2:8:GLU:N	9:I2:8:GLU:OE1	2.39	0.54
9:I2:982:GLN:HG2	15:O3:179:LEU:HD11	1.41	0.54
9:I2:1029:LEU:N	13:M3:612:PRO:O	2.40	0.54
9:I2:1034:ASP:OD2	15:O3:287:LEU:HD23	2.07	0.54
17:Q1:284:TYR:CD1	17:Q1:347:PHE:CZ	2.95	0.54
17:Q1:509:ALA:HB1	17:Q1:573:LYS:NZ	2.22	0.54
17:Q1:564:PHE:CE2	17:Q1:568:LEU:HD21	2.43	0.54
17:Q1:564:PHE:HE2	17:Q1:568:LEU:HD11	1.73	0.54
17:Q1:584:LYS:HD2	17:Q1:586:ASP:HB2	1.90	0.54
17:Q1:1043:ARG:O	17:Q1:1046:VAL:HG22	2.07	0.54
17:Q2:416:ILE:HD11	17:Q2:427:THR:CB	2.27	0.54
17:Q2:500:GLN:HA	17:Q2:503:TYR:HD2	1.72	0.54
17:Q2:528:GLU:C	17:Q2:579:ILE:HG21	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:557:LEU:CD1	17:Q2:632:LYS:HD2	2.38	0.54
17:Q2:903:LEU:O	17:Q2:906:ILE:HG12	2.08	0.54
17:Q2:928:LYS:O	17:Q2:932:LEU:HG	2.07	0.54
17:Q2:987:LEU:HD12	17:Q2:1008:MET:CE	2.37	0.54
18:R1:410:SER:HA	18:R1:436:LEU:HD11	1.88	0.54
18:R1:575:GLU:HA	18:R1:575:GLU:OE1	2.08	0.54
19:R2:618:GLU:O	19:R2:621:GLN:HG2	2.08	0.54
19:R2:661:PRO:HA	19:R2:705:PHE:CE2	2.43	0.54
20:S1:156:THR:HG22	20:S1:514:ARG:HD2	1.88	0.54
21:T2:212:TRP:HA	21:T2:222:LEU:HD23	1.90	0.54
23:V1:186:ARG:HA	23:V1:190:PHE:HB2	1.90	0.54
25:X1:815:GLU:N	26:Y1:1402:LEU:HD22	2.19	0.54
25:X2:692:LYS:HZ1	27:Z2:37:PHE:HZ	0.75	0.54
26:Y1:1225:PHE:HE2	27:Z1:539:ILE:HG13	1.67	0.54
26:Y2:1449:ILE:CG2	26:Y2:1449:ILE:O	2.56	0.54
27:Z1:68:THR:O	27:Z1:84:ASN:CG	2.50	0.54
27:Z1:535:PHE:HD2	27:Z2:544:THR:HG23	1.73	0.54
27:Z2:252:GLN:NE2	27:Z2:335:MET:CG	2.56	0.54
27:Z2:374:TYR:CD1	27:Z2:383:GLN:HG2	2.42	0.54
29:b2:16:ILE:CD1	29:b2:21:LYS:CB	2.86	0.54
6:F1:1806:ARG:O	14:N2:412:ASN:HB2	2.07	0.54
6:F2:139:GLN:HB3	9:I2:1395:LEU:HD12	1.89	0.54
6:F2:1049:GLN:HE21	9:I2:1388:GLU:N	2.06	0.54
9:I1:977:ASN:ND2	15:O1:177:HIS:N	2.55	0.54
9:I1:1049:LEU:HB2	15:O1:170:LEU:O	2.08	0.54
9:I1:1284:GLU:OE1	9:I1:1284:GLU:N	2.38	0.54
9:I2:894:VAL:CG1	13:M3:587:GLU:HG2	2.37	0.54
17:Q1:108:TRP:CE2	17:Q1:110:ILE:HD13	2.42	0.54
17:Q1:365:THR:HG21	17:Q1:433:LEU:HD21	1.90	0.54
17:Q1:784:ASN:O	17:Q1:788:TRP:HD1	1.91	0.54
17:Q1:805:ALA:HB1	17:Q1:815:VAL:HG11	1.90	0.54
17:Q1:1057:LEU:HD13	17:Q1:1057:LEU:C	2.33	0.54
17:Q1:1122:THR:CG2	17:Q1:1123:LEU:HD12	2.38	0.54
17:Q2:103:LYS:HA	17:Q2:103:LYS:CE	2.35	0.54
17:Q2:108:TRP:CE2	17:Q2:110:ILE:HD13	2.42	0.54
17:Q2:291:ILE:CD1	17:Q2:311:ASN:HD22	2.20	0.54
17:Q2:716:ASN:O	17:Q2:720:GLN:HB2	2.08	0.54
17:Q2:784:ASN:O	17:Q2:788:TRP:HD1	1.91	0.54
17:Q2:811:LEU:CD1	17:Q2:814:LEU:HD21	2.38	0.54
17:Q2:1047:LEU:C	17:Q2:1047:LEU:HD13	2.32	0.54
17:Q2:1057:LEU:HD13	17:Q2:1057:LEU:C	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:618:GLU:O	18:R1:621:GLN:HG2	2.08	0.54
20:S1:525:ASP:HA	20:S1:528:LEU:HD12	1.90	0.54
21:T1:9:ASN:OD1	21:T1:12:ILE:HD11	2.08	0.54
21:T1:49:LEU:HB3	21:T1:82:TRP:CZ3	2.42	0.54
22:U1:212:LYS:NZ	25:X1:768:GLU:HA	2.22	0.54
27:Z1:192:LEU:CD1	27:Z1:226:ILE:HD13	2.32	0.54
27:Z1:428:TYR:CZ	27:Z1:435:SER:CB	2.71	0.54
27:Z2:241:THR:CA	27:Z2:246:LYS:HE2	2.32	0.54
27:Z2:625:HIS:CD2	27:Z2:628:MET:CB	2.87	0.54
1:A2:777:LEU:HD13	1:A2:822:ILE:HD11	1.90	0.54
6:F1:1165:VAL:HG12	6:F1:1166:GLY:N	2.23	0.54
6:F1:1263:MET:O	6:F1:1267:ARG:N	2.41	0.54
9:I2:460:GLN:OE1	9:I2:460:GLN:N	2.39	0.54
9:I2:1025:LEU:O	13:M3:613:ASP:HB3	2.00	0.54
9:I2:1048:GLU:HG2	14:N3:289:PHE:CG	2.43	0.54
17:Q1:512:ILE:HG22	17:Q1:514:PHE:H	1.73	0.54
17:Q1:590:LYS:HE2	17:Q1:712:PHE:CZ	2.43	0.54
17:Q1:669:VAL:HG23	17:Q1:670:THR:N	2.22	0.54
17:Q1:716:ASN:O	17:Q1:720:GLN:HB2	2.08	0.54
17:Q1:801:CYS:SG	17:Q1:814:LEU:HD13	2.47	0.54
17:Q1:811:LEU:CD1	17:Q1:814:LEU:HD21	2.38	0.54
17:Q1:843:PHE:CE1	17:Q1:875:PHE:CZ	2.94	0.54
17:Q1:987:LEU:HD12	17:Q1:1008:MET:CE	2.37	0.54
17:Q2:196:LEU:HD13	17:Q2:196:LEU:C	2.33	0.54
17:Q2:423:ALA:HB3	17:Q2:446:ILE:HD11	1.89	0.54
17:Q2:584:LYS:HD2	17:Q2:586:ASP:HB2	1.89	0.54
17:Q2:680:GLY:HA2	17:Q2:683:GLU:HB3	1.89	0.54
17:Q2:681:ILE:HG21	17:Q2:750:TYR:HE1	1.72	0.54
17:Q2:865:PRO:O	17:Q2:869:ASP:HB3	2.07	0.54
17:Q2:922:LEU:CD2	19:R2:688:LEU:HD22	2.37	0.54
17:Q2:971:ILE:HG22	17:Q2:975:PHE:HB2	1.90	0.54
18:R1:682:LYS:HG2	18:R1:683:PHE:N	2.18	0.54
18:R1:714:TYR:O	18:R1:717:LEU:HB2	2.07	0.54
22:U1:296:LEU:HB2	27:Z1:656:SER:C	2.32	0.54
24:W1:102:MET:HB3	24:W1:107:THR:HG21	1.89	0.54
25:X2:762:LEU:HD11	26:Y2:1352:VAL:HG13	1.88	0.54
26:Y2:1456:LEU:C	26:Y2:1456:LEU:N	2.65	0.54
27:Z1:209:TYR:CE2	27:Z1:335:MET:HA	2.41	0.54
27:Z1:255:PHE:HD2	27:Z1:335:MET:HE1	1.73	0.54
27:Z1:281:VAL:O	27:Z1:281:VAL:CG2	2.55	0.54
27:Z2:679:GLU:O	27:Z2:683:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:140:GLU:C	9:I1:1394:ASN:N	2.65	0.54
6:F2:1491:ARG:NE	7:G2:282:ASN:OD1	2.41	0.54
7:G2:250:THR:O	15:O4:252:VAL:O	2.25	0.54
9:I1:94:GLU:N	9:I1:94:GLU:OE1	2.38	0.54
9:I1:460:GLN:OE1	9:I1:460:GLN:N	2.39	0.54
9:I1:717:GLU:N	9:I1:717:GLU:OE1	2.39	0.54
9:I1:1048:GLU:CG	15:O1:170:LEU:HB2	2.38	0.54
17:Q1:291:ILE:HD13	17:Q1:311:ASN:CB	2.36	0.54
17:Q1:527:ILE:CD1	17:Q1:530:ASP:HB3	2.37	0.54
17:Q1:552:THR:HA	17:Q1:556:HIS:CG	2.42	0.54
17:Q1:853:LYS:O	17:Q1:853:LYS:HG3	2.07	0.54
17:Q1:922:LEU:CD1	18:R1:688:LEU:O	2.56	0.54
17:Q2:275:ILE:HD12	17:Q2:275:ILE:N	2.23	0.54
17:Q2:1002:LEU:HD23	17:Q2:1021:LEU:HD13	1.88	0.54
17:Q2:1122:THR:CG2	17:Q2:1123:LEU:HD12	2.38	0.54
18:R1:350:VAL:HG22	18:R1:355:LEU:HD22	1.89	0.54
19:R2:658:LEU:O	19:R2:662:PHE:HD1	1.90	0.54
21:T2:95:HIS:CE1	21:T2:97:VAL:HG22	2.42	0.54
23:V2:60:LYS:C	23:V2:62:GLY:H	2.14	0.54
24:W2:125:ASP:OD1	24:W2:127:SER:OG	2.17	0.54
25:X1:778:LYS:C	25:X1:778:LYS:CD	2.80	0.54
25:X1:790:ASN:ND2	27:Z1:680:TRP:CZ2	2.75	0.54
26:Y1:1449:ILE:CG2	26:Y1:1449:ILE:O	2.56	0.54
26:Y2:1317:TYR:C	27:Z1:48:VAL:O	2.49	0.54
27:Z1:112:PHE:CE1	27:Z1:156:ILE:HA	2.43	0.54
27:Z1:129:LYS:CD	27:Z1:145:LEU:CD2	2.72	0.54
27:Z1:417:ILE:O	27:Z1:448:GLN:NE2	2.39	0.54
27:Z2:68:THR:C	27:Z2:84:ASN:ND2	2.66	0.54
27:Z2:135:LYS:HZ1	27:Z2:218:LEU:CG	2.21	0.54
27:Z2:285:PHE:CE1	27:Z2:333:MET:HE1	2.43	0.54
1:A2:1230:TYR:CZ	1:A1:590:SER:C	2.80	0.54
1:A3:1332:ARG:NH1	4:D3:902:SER:HB2	2.23	0.54
1:A4:777:LEU:HD13	1:A4:822:ILE:HD11	1.89	0.54
6:F2:143:GLY:N	9:I2:1395:LEU:HD21	1.81	0.54
7:G2:252:LEU:N	15:O4:251:ILE:CG2	2.47	0.54
9:I1:1116:ASP:OD1	10:J1:241:THR:CG2	2.56	0.54
9:I2:917:TYR:OH	15:O3:191:ARG:HG2	2.08	0.54
9:I2:925:LEU:HG	15:O3:186:PHE:CD2	2.42	0.54
9:I2:1307:LEU:N	14:N3:414:ALA:O	2.41	0.54
17:Q1:382:ARG:CA	17:Q1:512:ILE:CG1	2.83	0.54
17:Q1:423:ALA:HB3	17:Q1:446:ILE:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:903:LEU:CB	17:Q1:927:ALA:HB2	2.38	0.54
17:Q1:924:LEU:HD11	17:Q1:947:ILE:HG13	1.90	0.54
17:Q2:527:ILE:CD1	17:Q2:530:ASP:HB3	2.37	0.54
17:Q2:1043:ARG:O	17:Q2:1046:VAL:HG22	2.07	0.54
18:R1:550:MET:CB	18:R1:587:TYR:HE2	2.21	0.54
19:R2:575:GLU:HA	19:R2:575:GLU:OE1	2.08	0.54
21:T2:9:ASN:OD1	21:T2:12:ILE:HD11	2.08	0.54
22:U2:324:ASP:HB3	23:V2:64:LYS:HB3	1.90	0.54
23:V1:60:LYS:C	23:V1:62:GLY:H	2.14	0.54
23:V1:328:LEU:O	23:V1:332:ILE:HG13	2.08	0.54
23:V2:280:VAL:HG21	23:V2:321:ALA:HB3	1.89	0.54
24:W1:527:SER:CA	24:W1:739:PHE:O	2.56	0.54
25:X1:811:SER:OG	27:Z1:701:LEU:CD2	2.56	0.54
26:Y1:1236:ASP:C	26:Y1:1239:PHE:CD2	2.86	0.54
26:Y2:1277:LYS:HE3	27:Z2:571:ILE:HG13	1.81	0.54
26:Y2:1450:GLY:HA2	27:Z2:328:PHE:CZ	2.42	0.54
27:Z1:145:LEU:HD21	27:Z1:182:ILE:HG21	1.87	0.54
27:Z1:166:LEU:HD13	27:Z1:208:PHE:CZ	2.42	0.54
27:Z2:437:LEU:HD13	27:Z2:448:GLN:NE2	2.12	0.54
1:A2:1221:ILE:HG13	1:A1:600:LYS:HG3	1.88	0.54
1:A2:1228:TYR:HH	1:A1:642:ARG:CB	1.84	0.54
1:A2:1277:TRP:HD1	1:A1:642:ARG:NH1	2.03	0.54
6:F1:1267:ARG:NH1	15:O2:254:ARG:HG3	2.23	0.54
9:I1:900:ARG:N	13:M1:580:LYS:H	2.05	0.54
9:I1:909:ARG:HA	13:M1:548:LEU:CD2	2.33	0.54
9:I1:1048:GLU:HA	15:O1:171:ASP:N	1.86	0.54
9:I2:810:GLU:N	15:O3:244:GLU:CA	2.71	0.54
14:N3:264:ARG:CG	14:N4:334:LEU:HD22	2.25	0.54
17:Q1:621:TYR:OH	17:Q1:624:THR:HG23	2.08	0.54
17:Q1:623:LEU:HD12	17:Q1:623:LEU:N	2.23	0.54
17:Q1:650:LEU:HD11	17:Q1:666:LYS:HA	1.90	0.54
17:Q2:242:LEU:CD2	17:Q2:242:LEU:H	2.18	0.54
17:Q2:584:LYS:HB3	17:Q2:586:ASP:CB	2.38	0.54
17:Q2:590:LYS:HE2	17:Q2:712:PHE:CZ	2.43	0.54
17:Q2:843:PHE:CE1	17:Q2:875:PHE:CZ	2.94	0.54
17:Q2:903:LEU:CB	17:Q2:927:ALA:HB2	2.38	0.54
19:R2:514:VAL:HG13	19:R2:515:GLU:N	2.23	0.54
22:U1:128:LEU:HD23	22:U1:169:PHE:HB3	1.89	0.54
24:W1:91:LYS:NZ	24:W1:142:ALA:O	2.30	0.54
25:X1:747:THR:O	25:X1:751:LEU:HG	2.07	0.54
25:X1:791:ILE:CG2	27:Z1:666:GLU:O	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:797:LEU:HD21	26:Y2:1384:LYS:HE2	1.90	0.54
26:Y1:1389:SER:HB2	26:Y2:1357:ASN:OD1	2.02	0.54
26:Y2:1277:LYS:NZ	27:Z2:568:CYS:CA	2.69	0.54
26:Y2:1294:LYS:CB	27:Z2:588:TRP:CE2	2.91	0.54
27:Z1:12:ILE:HB	27:Z1:54:TYR:CG	2.43	0.54
27:Z1:135:LYS:HZ3	27:Z1:218:LEU:HD23	0.64	0.54
27:Z2:26:ILE:HG21	27:Z2:440:MET:HG3	1.90	0.54
27:Z2:73:SER:O	27:Z2:73:SER:OG	2.18	0.54
27:Z2:217:LEU:HA	27:Z2:269:LYS:CG	2.34	0.54
27:Z2:289:PRO:HD2	27:Z2:350:LEU:HB2	1.87	0.54
27:Z2:417:ILE:CG2	27:Z2:448:GLN:NE2	2.71	0.54
29:b1:10:ILE:HG21	29:b1:12:LYS:NZ	2.23	0.54
4:D1:1030:ALA:CB	1:A1:633:MET:CE	2.79	0.53
6:F1:158:PRO:CB	9:I1:1339:LEU:H	2.21	0.53
9:I1:843:GLU:CB	13:M1:535:GLU:HG3	2.09	0.53
9:I1:1046:HIS:NE2	15:O1:168:ALA:HA	2.21	0.53
9:I2:1108:PRO:CB	15:O3:278:GLU:O	2.56	0.53
17:Q1:334:TRP:CE3	17:Q1:397:PRO:HD2	2.43	0.53
17:Q1:500:GLN:HA	17:Q1:503:TYR:HD2	1.72	0.53
17:Q1:902:THR:HG23	17:Q1:903:LEU:HD22	1.90	0.53
17:Q1:1116:GLU:O	17:Q1:1120:VAL:HG23	2.08	0.53
17:Q2:433:LEU:HD12	17:Q2:433:LEU:N	2.24	0.53
17:Q2:552:THR:HA	17:Q2:556:HIS:CG	2.42	0.53
17:Q2:704:SER:N	17:Q2:707:PRO:HD2	2.23	0.53
17:Q2:790:HIS:CG	17:Q2:814:LEU:HB2	2.43	0.53
17:Q2:922:LEU:HD11	19:R2:688:LEU:HB3	1.89	0.53
18:R1:465:ILE:HD11	18:R1:470:LEU:O	2.08	0.53
22:U1:208:LEU:CD1	27:Z1:660:SER:HB2	1.89	0.53
24:W2:91:LYS:NZ	24:W2:142:ALA:O	2.30	0.53
25:X1:789:GLU:OE2	27:Z1:684:ARG:CD	2.56	0.53
25:X2:692:LYS:HD3	27:Z2:10:LEU:CB	2.35	0.53
25:X2:811:SER:OG	27:Z2:701:LEU:CD2	2.56	0.53
26:Y1:1277:LYS:HD2	27:Z1:567:THR:HG23	1.91	0.53
26:Y1:1399:ILE:CD1	27:Z1:697:CYS:HB3	2.38	0.53
27:Z1:208:PHE:CE1	27:Z1:211:PHE:HA	2.43	0.53
27:Z1:216:LEU:CD1	27:Z1:272:ILE:CG1	2.84	0.53
27:Z1:285:PHE:CE1	27:Z1:333:MET:HE1	2.43	0.53
27:Z1:377:SER:O	27:Z1:378:ASP:C	2.51	0.53
27:Z2:152:THR:OG1	27:Z2:154:PHE:CE1	2.57	0.53
27:Z2:281:VAL:O	27:Z2:281:VAL:CG2	2.55	0.53
6:F2:1336:GLU:OE1	6:F2:1336:GLU:N	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1246:ILE:HG13	15:O1:255:GLY:H	1.73	0.53
9:I1:1316:ALA:HA	15:O1:269:ILE:CG1	2.39	0.53
9:I2:902:GLN:HB2	13:M3:580:LYS:HB3	1.74	0.53
9:I2:968:PRO:C	16:P3:149:ARG:HD2	2.33	0.53
9:I2:976:ARG:NE	14:N3:293:LYS:O	2.41	0.53
9:I2:976:ARG:HD3	14:N3:297:ALA:H	1.72	0.53
17:Q1:196:LEU:HD13	17:Q1:196:LEU:C	2.32	0.53
17:Q1:384:ASN:OD1	17:Q1:508:ASN:CA	2.44	0.53
17:Q1:786:LEU:HD12	17:Q1:811:LEU:CD1	2.34	0.53
17:Q1:790:HIS:CG	17:Q1:814:LEU:HB2	2.43	0.53
17:Q2:333:ILE:HD11	17:Q2:349:SER:HB2	1.90	0.53
17:Q2:552:THR:O	17:Q2:556:HIS:HB2	2.07	0.53
17:Q2:623:LEU:HD12	17:Q2:623:LEU:N	2.24	0.53
17:Q2:644:VAL:HG13	17:Q2:645:ILE:N	2.21	0.53
17:Q2:700:GLU:HG2	17:Q2:758:ILE:HG12	1.84	0.53
17:Q2:805:ALA:HB1	17:Q2:815:VAL:HG11	1.90	0.53
17:Q2:867:GLN:HG3	17:Q2:869:ASP:N	2.09	0.53
17:Q2:870:VAL:HA	17:Q2:873:GLN:CG	2.38	0.53
17:Q2:957:GLU:O	17:Q2:960:ILE:HG22	2.08	0.53
17:Q2:960:ILE:HG23	17:Q2:961:SER:N	2.23	0.53
17:Q2:963:LYS:HB3	17:Q2:969:VAL:HG23	1.90	0.53
18:R1:528:HIS:HD2	18:R1:580:PHE:HB2	1.73	0.53
18:R1:648:ASP:O	18:R1:651:ILE:HG12	2.08	0.53
25:X1:676:ILE:HD11	26:Y1:1274:ASN:OD1	2.03	0.53
25:X2:655:PHE:CE2	27:Z2:549:ILE:HD12	2.43	0.53
26:Y1:1403:ARG:HE	27:Z1:704:VAL:CG2	2.20	0.53
27:Z1:119:GLU:CB	27:Z1:120:GLU:HB3	2.34	0.53
27:Z1:184:ASP:OD1	27:Z1:184:ASP:C	2.52	0.53
27:Z1:537:GLN:O	27:Z2:552:ARG:CG	2.55	0.53
27:Z2:26:ILE:CD1	27:Z2:37:PHE:CE1	2.91	0.53
27:Z2:307:ILE:CG2	27:Z2:390:ALA:HB1	2.36	0.53
27:Z2:328:PHE:HE1	27:Z2:330:ASP:HB2	1.71	0.53
27:Z2:595:GLN:O	27:Z2:599:MET:HG3	2.08	0.53
29:b1:9:PRO:HD3	29:b1:29:LYS:HZ1	1.72	0.53
1:A2:1221:ILE:N	1:A1:596:ARG:HG2	2.23	0.53
1:A3:785:ILE:HD11	1:A3:825:ARG:CG	2.38	0.53
9:I2:885:GLU:O	13:M3:594:LYS:CG	2.57	0.53
17:Q1:825:ASP:HA	17:Q1:828:THR:OG1	2.08	0.53
17:Q2:1016:PHE:HE1	17:Q2:1065:VAL:HG13	1.72	0.53
18:R1:530:ILE:CD1	18:R1:553:ASN:HB2	2.38	0.53
20:S1:548:TYR:HB2	21:T1:64:PRO:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:823:LYS:HG2	27:Z1:270:VAL:HG12	0.76	0.53
26:Y1:1429:LYS:NZ	26:Y2:1429:LYS:NZ	2.56	0.53
26:Y1:1452:PHE:CE2	27:Z1:402:LEU:CD1	2.87	0.53
26:Y2:1124:THR:HB	26:Y2:1126:LEU:HD21	1.91	0.53
27:Z1:202:GLY:O	27:Z1:298:THR:HG23	2.08	0.53
27:Z2:326:LEU:CB	27:Z2:352:GLU:CG	2.84	0.53
27:Z2:377:SER:O	27:Z2:378:ASP:C	2.51	0.53
27:Z2:448:GLN:CB	27:Z2:573:LYS:HZ1	2.19	0.53
1:A2:1332:ARG:HG2	4:D1:905:SER:CB	2.39	0.53
1:A2:1333:ARG:CD	4:D1:906:ARG:HD2	2.04	0.53
9:I1:908:ARG:CD	13:M1:552:TYR:HA	2.27	0.53
9:I2:1035:GLN:C	16:P3:144:ASP:HA	2.33	0.53
17:Q1:451:ASN:N	17:Q1:548:PRO:HB3	2.23	0.53
17:Q1:455:ILE:HD12	17:Q1:467:VAL:CG2	2.39	0.53
17:Q1:671:ASN:OD1	17:Q1:743:LEU:HD12	2.08	0.53
17:Q1:673:ILE:HG12	17:Q1:677:PHE:CE2	2.43	0.53
17:Q1:697:ASP:CB	17:Q1:698:PRO:HD3	2.39	0.53
17:Q1:704:SER:N	17:Q1:707:PRO:HD2	2.23	0.53
17:Q1:915:GLU:HG3	17:Q1:919:GLU:CB	2.38	0.53
17:Q1:962:ASN:HA	17:Q1:965:LYS:HE2	1.90	0.53
17:Q2:509:ALA:HB1	17:Q2:573:LYS:NZ	2.22	0.53
17:Q2:589:GLU:HG2	17:Q2:688:THR:HG23	1.91	0.53
17:Q2:673:ILE:HG12	17:Q2:677:PHE:CE2	2.43	0.53
17:Q2:697:ASP:CB	17:Q2:698:PRO:HD3	2.39	0.53
17:Q2:874:PHE:CE1	19:R2:726:ASN:OD1	2.55	0.53
17:Q2:874:PHE:HE1	19:R2:726:ASN:ND2	1.97	0.53
17:Q2:924:LEU:HD11	17:Q2:947:ILE:HG13	1.90	0.53
17:Q2:962:ASN:HA	17:Q2:965:LYS:HE2	1.90	0.53
17:Q2:1116:GLU:O	17:Q2:1120:VAL:HG23	2.08	0.53
18:R1:222:VAL:HG12	20:S1:256:VAL:HA	1.91	0.53
18:R1:482:ARG:CB	18:R1:516:TRP:CE2	2.86	0.53
19:R2:648:ASP:O	19:R2:651:ILE:HG12	2.09	0.53
22:U1:241:ARG:HH12	27:Z1:659:LYS:HZ3	0.59	0.53
22:U1:291:ASN:CA	25:X1:802:ASP:OD1	2.56	0.53
24:W1:534:ASP:OD2	24:W1:746:CYS:O	2.26	0.53
25:X1:775:THR:O	25:X1:778:LYS:N	2.41	0.53
26:Y1:1358:HIS:HD2	26:Y1:1362:LEU:HG	1.67	0.53
26:Y1:1387:LYS:HZ3	26:Y2:1390:LEU:HD13	1.73	0.53
26:Y1:1450:GLY:O	26:Y1:1454:LYS:HG3	2.09	0.53
26:Y2:1221:VAL:HG13	27:Z2:536:LEU:HD23	1.91	0.53
26:Y2:1321:MET:CG	27:Z1:47:ASN:O	2.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:68:THR:C	27:Z1:84:ASN:ND2	2.66	0.53
27:Z1:679:GLU:OE1	27:Z2:654:ASP:OD2	2.16	0.53
27:Z2:68:THR:O	27:Z2:84:ASN:CG	2.50	0.53
27:Z2:186:GLU:HG3	27:Z2:303:ALA:HA	1.89	0.53
27:Z2:418:ALA:HB2	27:Z2:573:LYS:HE3	1.91	0.53
28:a1:983:SER:CB	28:a1:986:GLN:HG2	2.35	0.53
29:b1:92:ALA:O	29:b2:92:ALA:C	2.52	0.53
1:A3:1223:GLU:HB3	1:A4:648:TYR:HE2	1.10	0.53
6:F1:166:THR:CG2	9:I1:1330:PHE:CE1	2.90	0.53
6:F1:179:GLU:OE2	9:I1:1207:PRO:HB3	2.08	0.53
6:F1:540:GLU:N	6:F1:540:GLU:OE1	2.37	0.53
6:F1:1066:ALA:HB3	6:F1:1067:PRO:HD3	1.91	0.53
9:I2:813:ILE:HG23	15:O3:241:SER:CB	2.29	0.53
9:I2:903:GLY:CA	13:M3:577:LEU:O	2.57	0.53
9:I2:963:LEU:CG	16:P3:152:LYS:N	2.60	0.53
10:J1:248:VAL:HG22	15:O1:273:ASP:CG	1.97	0.53
17:Q1:142:PHE:CG	17:Q1:143:PRO:HD2	2.42	0.53
17:Q1:164:LEU:CD2	17:Q1:178:ILE:HD13	2.39	0.53
17:Q1:316:ILE:CG1	17:Q1:331:LEU:HD21	2.38	0.53
17:Q1:429:VAL:HG12	17:Q1:430:ASN:N	2.22	0.53
17:Q1:831:LEU:HD12	17:Q1:835:PHE:HB3	1.91	0.53
17:Q1:870:VAL:HA	17:Q1:873:GLN:CG	2.38	0.53
17:Q1:957:GLU:O	17:Q1:960:ILE:HG22	2.08	0.53
17:Q2:334:TRP:CE3	17:Q2:397:PRO:HD2	2.43	0.53
17:Q2:670:THR:HG21	17:Q2:744:LYS:NZ	2.23	0.53
18:R1:453:GLU:HG3	18:R1:454:ASP:N	2.18	0.53
18:R1:534:SER:O	18:R1:546:LEU:HD21	2.09	0.53
18:R1:661:PRO:HA	18:R1:705:PHE:CE2	2.43	0.53
19:R2:350:VAL:HG22	19:R2:355:LEU:HD22	1.90	0.53
19:R2:711:LEU:HA	19:R2:714:TYR:HD2	1.66	0.53
20:S1:186:PHE:HD1	20:S1:487:LEU:HD11	1.74	0.53
22:U1:209:PRO:CG	27:Z1:662:LEU:H	2.21	0.53
22:U1:288:LEU:C	25:X1:797:LEU:N	2.58	0.53
22:U1:289:GLN:CB	25:X1:794:ILE:HG23	2.37	0.53
24:W1:232:ARG:NE	24:W1:249:THR:OG1	2.39	0.53
25:X2:778:LYS:CG	25:X2:794:ILE:HG12	2.39	0.53
27:Z1:105:ILE:O	27:Z1:108:ALA:HB3	2.08	0.53
27:Z1:429:ILE:HG21	27:Z1:431:TRP:CE2	2.37	0.53
27:Z2:186:GLU:CG	27:Z2:302:ILE:O	2.57	0.53
27:Z2:208:PHE:CE1	27:Z2:211:PHE:HA	2.44	0.53
27:Z2:359:GLU:CB	27:Z2:361:LYS:CE	2.85	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b1:16:ILE:CA	29:b1:74:GLY:O	2.56	0.53
29:b2:61:VAL:HG22	29:b2:86:PHE:CD1	2.44	0.53
1:A3:1271:ILE:HG12	1:A4:730:THR:CG2	2.28	0.53
1:A4:1048:ARG:CZ	4:D4:1095:ARG:NH1	2.57	0.53
6:F1:1205:TRP:NE1	15:O2:241:SER:HA	2.24	0.53
6:F1:1491:ARG:NE	7:G1:282:ASN:OD1	2.41	0.53
6:F2:143:GLY:HA2	9:I2:1394:ASN:C	2.32	0.53
9:I2:77:GLU:N	9:I2:77:GLU:OE1	2.38	0.53
9:I2:896:PRO:CB	13:M3:588:MET:CE	2.75	0.53
17:Q1:960:ILE:HG23	17:Q1:961:SER:N	2.23	0.53
17:Q1:1016:PHE:CE2	17:Q1:1020:ARG:HG3	2.43	0.53
17:Q2:142:PHE:CG	17:Q2:143:PRO:HD2	2.42	0.53
17:Q2:279:GLY:O	17:Q2:299:ALA:HA	2.08	0.53
17:Q2:316:ILE:CG1	17:Q2:331:LEU:HD21	2.38	0.53
17:Q2:455:ILE:HD12	17:Q2:467:VAL:CG2	2.38	0.53
17:Q2:671:ASN:OD1	17:Q2:743:LEU:HD12	2.08	0.53
17:Q2:827:THR:HG23	17:Q2:830:SER:CB	2.39	0.53
17:Q2:827:THR:O	17:Q2:830:SER:HB2	2.09	0.53
17:Q2:847:LEU:HA	17:Q2:876:GLN:HE22	1.74	0.53
17:Q2:989:GLU:OE1	17:Q2:992:LYS:HD2	2.08	0.53
18:R1:341:HIS:CE1	18:R1:343:ILE:HD12	2.43	0.53
19:R2:222:VAL:HG12	20:S2:256:VAL:HA	1.90	0.53
19:R2:688:LEU:HD11	19:R2:721:THR:HG23	1.90	0.53
19:R2:714:TYR:O	19:R2:717:LEU:HB2	2.07	0.53
22:U2:219:SER:HG	22:U2:312:TRP:CD1	2.25	0.53
24:W1:400:LYS:NZ	24:W1:716:GLU:CB	2.39	0.53
24:W1:406:ARG:HD3	24:W1:720:PHE:CA	2.38	0.53
24:W2:102:MET:HB3	24:W2:107:THR:HG21	1.90	0.53
25:X1:742:GLN:HG3	25:X1:743:GLN:CD	2.28	0.53
25:X1:744:ALA:CB	27:Z1:631:PHE:HE1	2.20	0.53
25:X2:788:ASP:C	25:X2:789:GLU:CA	2.72	0.53
26:Y1:1221:VAL:HG13	27:Z1:536:LEU:HD23	1.91	0.53
26:Y1:1294:LYS:CB	27:Z1:588:TRP:CE2	2.91	0.53
26:Y2:1317:TYR:CZ	27:Z1:48:VAL:C	2.64	0.53
26:Y2:1321:MET:CA	27:Z1:51:ASP:CA	2.87	0.53
27:Z1:212:LEU:HB3	27:Z1:216:LEU:HD21	1.91	0.53
27:Z1:213:PRO:O	27:Z1:216:LEU:CD2	2.57	0.53
27:Z1:544:THR:OG1	27:Z2:558:PHE:CB	2.56	0.53
27:Z2:74:SER:OG	27:Z2:139:ASP:OD1	2.26	0.53
27:Z2:94:PRO:HG2	27:Z2:94:PRO:O	2.09	0.53
27:Z2:166:LEU:HD13	27:Z2:208:PHE:CZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:294:LEU:CD1	27:Z2:325:ILE:CD1	2.84	0.53
1:A3:1087:GLY:HA3	4:D3:1095:ARG:HG2	1.90	0.53
6:F1:1056:ARG:HH12	9:I1:1388:GLU:CD	2.17	0.53
9:I1:1254:VAL:CG2	15:O1:259:ASP:HA	2.39	0.53
9:I2:1302:ARG:CD	15:O3:263:GLN:HG3	2.39	0.53
13:M4:494:GLU:OE2	13:M4:497:ARG:NH2	2.42	0.53
17:Q1:94:ILE:O	17:Q1:96:TYR:HD1	1.92	0.53
17:Q1:557:LEU:CD1	17:Q1:632:LYS:HD2	2.38	0.53
17:Q1:971:ILE:HG22	17:Q1:975:PHE:HB2	1.90	0.53
17:Q1:1065:VAL:CB	17:Q1:1070:LEU:HD23	2.39	0.53
18:R1:479:THR:HB	18:R1:483:VAL:CG2	2.38	0.53
19:R2:341:HIS:CE1	19:R2:343:ILE:HD12	2.43	0.53
19:R2:550:MET:HB3	19:R2:587:TYR:CE2	2.43	0.53
19:R2:604:VAL:HG13	19:R2:605:SER:N	2.23	0.53
21:T2:178:ALA:HB1	21:T2:206:TRP:CE2	2.44	0.53
25:X2:642:THR:O	25:X2:646:ASN:OD1	2.26	0.53
25:X2:688:HIS:CD2	27:Z2:446:THR:O	2.62	0.53
27:Z1:356:LEU:HB3	27:Z1:358:ARG:NH2	2.24	0.53
27:Z1:363:LEU:HD21	27:Z1:373:LEU:HD11	1.90	0.53
27:Z2:158:ASN:HB2	27:Z2:161:GLU:HG3	1.89	0.53
27:Z2:356:LEU:HB3	27:Z2:358:ARG:NH2	2.24	0.53
27:Z2:368:GLU:OE1	27:Z2:428:TYR:CD2	2.62	0.53
29:b1:58:HIS:CE1	29:b2:70:THR:O	2.62	0.53
1:A2:1225:PRO:CG	1:A1:640:LEU:HD22	2.28	0.53
1:A4:1017:THR:HG21	1:A4:1048:ARG:HH11	1.74	0.53
4:D1:1075:LEU:C	4:D1:1075:LEU:HD22	2.34	0.53
6:F1:141:ALA:HA	9:I1:1390:PHE:CE2	2.42	0.53
9:I1:8:GLU:N	9:I1:8:GLU:OE1	2.39	0.53
9:I2:917:TYR:CZ	15:O3:191:ARG:N	2.76	0.53
9:I2:1034:ASP:HA	15:O3:284:LYS:HG2	1.91	0.53
9:I2:1099:ARG:NH1	13:M3:609:GLY:H	2.06	0.53
17:Q1:711:ASN:CA	17:Q1:715:LEU:HD13	2.28	0.53
17:Q1:989:GLU:OE1	17:Q1:992:LYS:HD2	2.08	0.53
17:Q2:557:LEU:HD12	17:Q2:632:LYS:CE	2.39	0.53
17:Q2:621:TYR:OH	17:Q2:624:THR:HG23	2.08	0.53
17:Q2:915:GLU:HG3	17:Q2:919:GLU:CB	2.38	0.53
17:Q2:1063:LYS:HD2	17:Q2:1067:ASP:OD2	2.09	0.53
18:R1:462:ILE:HG23	18:R1:463:GLU:N	2.24	0.53
18:R1:604:VAL:HG13	18:R1:605:SER:N	2.23	0.53
20:S1:178:THR:HG21	20:S1:485:ALA:HB2	1.91	0.53
21:T2:275:ASP:OD1	21:T2:275:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:530:LYS:CG	24:W1:746:CYS:N	2.69	0.53
25:X1:690:GLN:CG	27:Z1:581:PHE:CZ	2.91	0.53
25:X1:711:LEU:CD1	26:Y1:1309:ASP:OD2	2.57	0.53
25:X2:665:TRP:HH2	27:Z2:556:GLN:C	2.17	0.53
25:X2:694:ASP:O	27:Z2:432:ASN:HA	2.03	0.53
25:X2:747:THR:O	25:X2:751:LEU:HG	2.08	0.53
26:Y1:1435:LYS:HE2	27:Z1:225:LEU:HD23	1.81	0.53
27:Z1:41:ASN:C	27:Z1:59:PHE:CE1	2.87	0.53
27:Z1:69:PHE:CA	27:Z1:84:ASN:CG	2.72	0.53
27:Z1:287:ILE:HD12	27:Z1:327:LEU:HD13	1.90	0.53
27:Z1:326:LEU:HD23	27:Z1:410:PHE:CZ	2.42	0.53
27:Z1:595:GLN:O	27:Z1:599:MET:HG3	2.08	0.53
27:Z2:112:PHE:CE1	27:Z2:156:ILE:HA	2.43	0.53
27:Z2:216:LEU:HG	27:Z2:272:ILE:HG13	1.91	0.53
27:Z2:263:TRP:CD1	27:Z2:270:VAL:HG21	2.43	0.53
27:Z2:417:ILE:CG2	27:Z2:417:ILE:O	2.57	0.53
1:A3:1017:THR:HG21	1:A3:1048:ARG:HH11	1.74	0.53
1:A3:1200:ARG:HB3	1:A4:591:ASP:OD2	2.07	0.53
4:D1:1030:ALA:HB1	1:A1:633:MET:CE	2.37	0.53
6:F1:179:GLU:HG2	9:I1:1207:PRO:HD3	1.91	0.53
9:I1:903:GLY:CA	13:M1:575:TYR:HB2	2.32	0.53
9:I1:905:ALA:N	13:M1:573:ARG:CD	2.70	0.53
9:I2:465:GLU:N	9:I2:465:GLU:OE1	2.38	0.53
9:I2:1305:LEU:HD11	15:O3:260:LEU:HA	1.91	0.53
17:Q1:268:VAL:HG13	17:Q1:334:TRP:C	2.34	0.53
17:Q1:386:PHE:CZ	17:Q1:563:PHE:CD1	2.96	0.53
17:Q1:433:LEU:HD12	17:Q1:433:LEU:N	2.23	0.53
17:Q1:448:SER:HG	17:Q1:545:TYR:HE1	1.51	0.53
17:Q1:615:GLU:HB2	17:Q1:645:ILE:CG1	2.39	0.53
17:Q1:668:ASN:O	17:Q1:672:LEU:HD23	2.08	0.53
17:Q1:670:THR:HG21	17:Q1:744:LYS:NZ	2.23	0.53
17:Q1:802:ILE:HG23	17:Q1:803:GLN:N	2.24	0.53
17:Q1:960:ILE:HB	17:Q1:1006:TYR:OH	2.09	0.53
17:Q2:335:ASP:OD2	17:Q2:399:ILE:HG22	2.09	0.53
17:Q2:684:GLU:HA	17:Q2:688:THR:HB	1.90	0.53
17:Q2:802:ILE:HG23	17:Q2:803:GLN:N	2.24	0.53
17:Q2:858:ASN:ND2	19:R2:682:LYS:CE	2.72	0.53
17:Q2:934:VAL:HG22	17:Q2:935:GLU:N	2.24	0.53
18:R1:534:SER:CB	18:R1:546:LEU:HD22	2.39	0.53
19:R2:431:ILE:H	19:R2:431:ILE:HD12	1.74	0.53
19:R2:530:ILE:HG13	19:R2:549:PHE:CE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:241:ARG:CG	27:Z1:656:SER:CB	2.86	0.53
25:X1:655:PHE:CE2	27:Z1:549:ILE:HD12	2.44	0.53
25:X1:665:TRP:CE3	25:X1:669:LEU:CD1	2.89	0.53
25:X1:803:ALA:HB2	26:Y1:1372:LYS:CG	2.32	0.53
25:X2:821:ILE:CG2	26:Y2:1409:LEU:HD11	2.37	0.53
26:Y2:1367:LYS:O	26:Y2:1371:VAL:CG2	2.37	0.53
27:Z1:287:ILE:HD12	27:Z1:327:LEU:CD1	2.39	0.53
27:Z2:213:PRO:O	27:Z2:216:LEU:CD2	2.57	0.53
29:b2:15:ASP:OD2	29:b2:76:PHE:CB	2.57	0.53
1:A2:785:ILE:HD11	1:A2:825:ARG:CG	2.38	0.53
1:A3:874:VAL:HG23	4:D1:515:ASN:ND2	2.23	0.53
1:A4:715:GLU:OE1	4:D3:973:GLN:NE2	2.41	0.53
4:D1:1006:ASP:CB	1:A1:172:PRO:CB	2.70	0.53
6:F1:835:ILE:O	6:F1:835:ILE:HG13	2.09	0.53
9:I1:910:LYS:HE3	13:M1:542:ASP:O	2.08	0.53
9:I1:1048:GLU:HG3	15:O1:170:LEU:HB2	1.90	0.53
9:I2:1099:ARG:HG3	15:O3:268:GLY:HA3	1.90	0.53
17:Q2:164:LEU:CD2	17:Q2:178:ILE:HD13	2.39	0.53
17:Q2:564:PHE:CE2	17:Q2:568:LEU:HD21	2.43	0.53
17:Q2:902:THR:HG23	17:Q2:903:LEU:HD22	1.90	0.53
18:R1:442:LEU:HD13	18:R1:442:LEU:O	2.09	0.53
18:R1:687:ALA:O	18:R1:690:PHE:HB3	2.09	0.53
19:R2:530:ILE:CD1	19:R2:553:ASN:HB2	2.38	0.53
20:S2:345:SER:HB3	20:S2:371:PHE:CE2	2.43	0.53
20:S2:520:ARG:NH2	20:S2:542:GLN:HE21	2.06	0.53
24:W1:400:LYS:HE3	24:W1:716:GLU:CB	2.36	0.53
26:Y2:1125:ASP:C	26:Y2:1125:ASP:CA	2.81	0.53
26:Y2:1320:LEU:CD1	27:Z1:49:LEU:O	2.53	0.53
26:Y2:1366:LEU:HA	26:Y2:1384:LYS:H	1.73	0.53
27:Z1:35:ILE:HG12	27:Z1:46:TYR:CZ	2.42	0.53
27:Z1:368:GLU:OE1	27:Z1:428:TYR:CD2	2.62	0.53
27:Z2:12:ILE:HB	27:Z2:54:TYR:CG	2.43	0.53
27:Z2:105:ILE:O	27:Z2:108:ALA:HB3	2.08	0.53
29:b2:54:GLY:O	29:b2:55:ASN:OD1	2.27	0.53
29:b2:75:HIS:ND1	29:b2:90:LYS:CG	2.72	0.53
1:A1:827:ILE:CG1	1:A1:849:SER:N	2.71	0.53
4:D3:1075:LEU:HD22	4:D3:1075:LEU:C	2.34	0.52
6:F1:1049:GLN:C	9:I1:1388:GLU:N	2.66	0.52
6:F1:1808:VAL:C	14:N2:413:VAL:C	2.77	0.52
9:I2:301:GLN:OE1	9:I2:301:GLN:N	2.42	0.52
9:I2:906:GLY:O	13:M3:573:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:1026:TYR:CE1	13:M3:608:LYS:C	2.87	0.52
9:I2:1108:PRO:HB3	15:O3:279:ILE:C	2.25	0.52
9:I2:1116:ASP:OD1	10:J2:241:THR:CG2	2.56	0.52
17:Q1:335:ASP:OD2	17:Q1:399:ILE:HG22	2.09	0.52
17:Q1:444:GLU:OE2	17:Q1:507:ILE:C	2.52	0.52
17:Q1:557:LEU:HD12	17:Q1:632:LYS:CE	2.39	0.52
17:Q1:743:LEU:HD23	17:Q1:743:LEU:C	2.34	0.52
17:Q1:847:LEU:HD21	17:Q1:875:PHE:CE2	2.45	0.52
17:Q1:964:LEU:HD13	17:Q1:988:VAL:HG23	1.91	0.52
17:Q1:1035:LYS:HE3	17:Q1:1083:LEU:CD1	2.39	0.52
17:Q2:426:ILE:HD12	17:Q2:443:TRP:CH2	2.42	0.52
17:Q2:584:LYS:CG	17:Q2:709:PHE:CZ	2.92	0.52
18:R1:676:LYS:NZ	18:R1:679:LYS:HA	2.24	0.52
20:S2:186:PHE:HD1	20:S2:487:LEU:HD11	1.74	0.52
23:V2:328:LEU:O	23:V2:332:ILE:HG13	2.08	0.52
24:W1:400:LYS:HE3	24:W1:716:GLU:HA	1.88	0.52
25:X1:797:LEU:HB3	26:Y1:1372:LYS:C	2.29	0.52
27:Z1:289:PRO:HD2	27:Z1:350:LEU:HB2	1.87	0.52
27:Z1:401:ASP:CG	27:Z2:260:HIS:C	2.71	0.52
27:Z2:171:ASN:O	27:Z2:171:ASN:CG	2.51	0.52
27:Z2:212:LEU:HB3	27:Z2:216:LEU:HD21	1.91	0.52
29:b2:42:ALA:CA	29:b2:59:VAL:HG21	2.38	0.52
1:A4:624:ASP:HB3	4:D3:972:TRP:HE1	1.74	0.52
7:G1:253:SER:CB	13:M2:595:MET:CE	2.87	0.52
9:I1:1311:LEU:C	15:O1:265:ASN:O	2.50	0.52
9:I2:916:ALA:CB	15:O3:192:HIS:HB3	2.39	0.52
13:M2:494:GLU:OE2	13:M2:497:ARG:NH2	2.42	0.52
17:Q1:94:ILE:O	17:Q1:94:ILE:HG23	2.08	0.52
17:Q1:228:ILE:HD11	17:Q1:248:LEU:HB2	1.90	0.52
17:Q1:400:PHE:CD1	17:Q1:460:TYR:CD1	2.97	0.52
17:Q1:598:ILE:HD11	17:Q1:632:LYS:HG3	1.91	0.52
17:Q1:636:ILE:HG13	17:Q1:637:ASN:N	2.24	0.52
17:Q1:657:LEU:H	17:Q1:657:LEU:CD2	2.22	0.52
17:Q1:939:LEU:HD12	17:Q1:939:LEU:N	2.24	0.52
17:Q1:1002:LEU:HD23	17:Q1:1021:LEU:CD1	2.39	0.52
17:Q2:571:VAL:HA	17:Q2:576:ASN:HD21	1.74	0.52
17:Q2:668:ASN:O	17:Q2:672:LEU:HD23	2.09	0.52
17:Q2:960:ILE:HB	17:Q2:1006:TYR:OH	2.09	0.52
17:Q2:1002:LEU:HD23	17:Q2:1021:LEU:CD1	2.38	0.52
17:Q2:1065:VAL:CB	17:Q2:1070:LEU:HD23	2.39	0.52
18:R1:436:LEU:N	18:R1:451:SER:OG	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:206:ILE:HG23	20:S2:336:LEU:HB3	1.91	0.52
19:R2:555:ILE:HD13	19:R2:555:ILE:C	2.35	0.52
19:R2:617:ILE:HG23	19:R2:618:GLU:N	2.24	0.52
20:S1:520:ARG:NH2	20:S1:542:GLN:HE21	2.06	0.52
20:S2:178:THR:HG21	20:S2:485:ALA:HB2	1.90	0.52
21:T1:212:TRP:HA	21:T1:222:LEU:HD23	1.90	0.52
21:T1:275:ASP:N	21:T1:275:ASP:OD1	2.42	0.52
25:X2:662:ILE:CD1	27:Z1:541:LYS:NZ	2.67	0.52
25:X2:745:TYR:HB3	27:Z1:104:SER:HB2	1.88	0.52
25:X2:822:LYS:O	27:Z1:258:LYS:O	2.27	0.52
26:Y2:1317:TYR:CB	27:Z1:49:LEU:HD12	2.37	0.52
27:Z1:289:PRO:CD	27:Z1:350:LEU:CB	2.73	0.52
27:Z1:541:LYS:CD	27:Z2:550:HIS:O	2.56	0.52
27:Z1:544:THR:CA	27:Z2:558:PHE:HB2	2.38	0.52
27:Z2:248:ASN:O	27:Z2:252:GLN:HG2	2.09	0.52
27:Z2:351:ILE:HD12	27:Z2:389:TRP:HH2	1.74	0.52
27:Z2:668:GLU:CB	27:Z2:668:GLU:O	2.27	0.52
29:b1:69:VAL:HB	29:b2:58:HIS:CE1	2.41	0.52
1:A3:1070:ASP:O	9:I2:1238:LYS:CD	2.26	0.52
1:A3:1070:ASP:C	9:I2:1238:LYS:HZ2	2.16	0.52
1:A4:790:ASP:OD1	1:A4:790:ASP:N	2.35	0.52
4:D4:1075:LEU:HD22	4:D4:1075:LEU:C	2.34	0.52
6:F1:383:HIS:ND1	6:F1:471:GLN:OE1	2.42	0.52
6:F2:142:ALA:HB3	9:I2:1395:LEU:HD21	1.85	0.52
6:F2:795:GLU:N	6:F2:795:GLU:OE1	2.42	0.52
6:F2:1807:GLU:N	6:F2:1807:GLU:OE1	2.42	0.52
7:G1:254:ASN:HD22	14:N2:400:LEU:HD13	1.75	0.52
9:I1:1046:HIS:ND1	15:O1:167:ASN:ND2	2.57	0.52
9:I1:1320:LEU:N	15:O1:269:ILE:HD13	2.10	0.52
9:I2:1051:LYS:HG2	14:N3:289:PHE:HD1	1.70	0.52
9:I2:1095:TYR:CD1	15:O3:268:GLY:HA3	2.43	0.52
17:Q1:279:GLY:O	17:Q1:299:ALA:HA	2.08	0.52
17:Q1:416:ILE:HD11	17:Q1:427:THR:CB	2.27	0.52
17:Q1:670:THR:O	17:Q1:743:LEU:HD11	2.09	0.52
17:Q1:827:THR:O	17:Q1:830:SER:HB2	2.09	0.52
17:Q1:827:THR:O	17:Q1:827:THR:HG22	2.09	0.52
17:Q1:963:LYS:HB3	17:Q1:969:VAL:HG23	1.90	0.52
17:Q1:1043:ARG:CG	17:Q1:1120:VAL:HG21	2.35	0.52
17:Q2:228:ILE:HD11	17:Q2:248:LEU:HB2	1.89	0.52
17:Q2:516:LEU:CB	17:Q2:517:PRO:HD3	2.37	0.52
17:Q2:657:LEU:C	17:Q2:662:ASN:HD22	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:939:LEU:HD12	17:Q2:939:LEU:N	2.24	0.52
17:Q2:1043:ARG:NE	17:Q2:1117:ILE:HD13	2.24	0.52
18:R1:555:ILE:HD13	18:R1:555:ILE:C	2.35	0.52
19:R2:668:HIS:CE1	19:R2:717:LEU:HB3	2.45	0.52
19:R2:687:ALA:O	19:R2:690:PHE:HB3	2.09	0.52
20:S1:520:ARG:HH21	20:S1:542:GLN:HE21	1.58	0.52
21:T1:178:ALA:HB1	21:T1:206:TRP:CE2	2.44	0.52
22:U1:289:GLN:CA	25:X1:798:ASN:CA	2.87	0.52
25:X1:791:ILE:H	27:Z1:669:THR:C	2.17	0.52
26:Y2:1335:SER:HB2	26:Y2:1339:PHE:CE1	2.29	0.52
27:Z1:171:ASN:O	27:Z1:171:ASN:CG	2.51	0.52
27:Z1:317:VAL:O	27:Z1:324:LEU:CD1	2.54	0.52
27:Z2:120:GLU:O	27:Z2:124:LYS:HG3	2.07	0.52
1:A2:1017:THR:HG21	1:A2:1048:ARG:HH11	1.74	0.52
1:A2:1233:GLN:HE21	1:A1:640:LEU:HD12	1.56	0.52
1:A3:1221:ILE:H	1:A4:595:GLU:HB3	1.70	0.52
4:D2:1075:LEU:C	4:D2:1075:LEU:HD22	2.34	0.52
6:F1:1265:GLN:OE1	15:O2:248:SER:OG	2.28	0.52
6:F1:1794:LYS:O	14:N2:429:GLU:OE1	2.27	0.52
6:F2:1165:VAL:HG12	6:F2:1166:GLY:N	2.23	0.52
7:G1:249:ASP:CA	15:O2:247:TRP:NE1	2.73	0.52
9:I1:896:PRO:CB	13:M1:583:ASP:C	2.76	0.52
9:I2:976:ARG:CD	14:N3:297:ALA:N	2.73	0.52
9:I2:1099:ARG:HA	15:O3:272:SER:N	2.24	0.52
9:I2:1301:ASN:C	15:O3:263:GLN:OE1	2.52	0.52
9:I2:1305:LEU:CB	15:O3:264:ILE:CG1	2.82	0.52
10:J1:250:THR:CB	15:O1:277:GLU:CA	2.86	0.52
17:Q1:448:SER:OG	17:Q1:545:TYR:CE1	2.62	0.52
17:Q1:552:THR:C	17:Q1:556:HIS:HB2	2.35	0.52
17:Q1:564:PHE:HZ	17:Q1:588:ILE:CD1	2.21	0.52
17:Q1:571:VAL:HA	17:Q1:576:ASN:HD21	1.73	0.52
17:Q1:605:ARG:HH22	17:Q1:629:LEU:HD11	1.75	0.52
17:Q1:749:LEU:O	17:Q1:749:LEU:HD23	2.10	0.52
17:Q1:874:PHE:HE1	17:Q1:889:GLN:HG2	1.69	0.52
17:Q1:973:LYS:HD3	17:Q1:976:LYS:NZ	2.25	0.52
17:Q2:268:VAL:HG13	17:Q2:334:TRP:C	2.34	0.52
17:Q2:516:LEU:HD13	17:Q2:570:PHE:CE1	2.44	0.52
17:Q2:557:LEU:HD12	17:Q2:632:LYS:CD	2.39	0.52
17:Q2:598:ILE:HD11	17:Q2:632:LYS:HG3	1.91	0.52
17:Q2:601:ASN:O	17:Q2:602:SER:HB2	2.10	0.52
17:Q2:605:ARG:HH22	17:Q2:629:LEU:HD11	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:790:HIS:HB2	17:Q2:814:LEU:HD23	1.92	0.52
17:Q2:827:THR:O	17:Q2:827:THR:HG22	2.10	0.52
17:Q2:1035:LYS:HE3	17:Q2:1083:LEU:CD1	2.39	0.52
17:Q2:1125:SER:O	17:Q2:1126:ASP:HB2	2.10	0.52
18:R1:531:ILE:HD12	18:R1:583:GLU:OE2	2.09	0.52
18:R1:667:LEU:HD13	18:R1:667:LEU:C	2.35	0.52
18:R1:668:HIS:CE1	18:R1:717:LEU:HB3	2.45	0.52
19:R2:528:HIS:HD2	19:R2:580:PHE:HB2	1.72	0.52
19:R2:531:ILE:HD12	19:R2:583:GLU:OE2	2.09	0.52
20:S1:345:SER:HB3	20:S1:371:PHE:CE2	2.44	0.52
20:S1:483:GLU:OE2	20:S1:514:ARG:NH2	2.35	0.52
22:U1:296:LEU:CA	27:Z1:653:GLN:O	2.58	0.52
22:U2:53:ALA:HB1	22:U2:84:TRP:CZ2	2.44	0.52
25:X1:665:TRP:HH2	27:Z1:556:GLN:C	2.17	0.52
25:X1:790:ASN:CB	27:Z1:680:TRP:HZ2	2.22	0.52
25:X2:688:HIS:CD2	27:Z2:446:THR:C	2.87	0.52
25:X2:700:ILE:CA	26:Y2:1298:TYR:CE1	2.84	0.52
25:X2:722:LEU:O	25:X2:726:VAL:HG23	2.10	0.52
25:X2:744:ALA:CB	27:Z2:631:PHE:HE1	2.20	0.52
25:X2:777:ASN:O	25:X2:792:GLN:N	2.18	0.52
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:HB2	0.56	0.52
27:Z1:380:ILE:HG21	27:Z1:382:GLN:HE21	1.74	0.52
27:Z1:637:GLN:HA	27:Z1:640:GLN:CG	2.40	0.52
27:Z2:522:GLU:CG	27:Z2:523:ASN:CA	2.86	0.52
6:F2:383:HIS:ND1	6:F2:471:GLN:OE1	2.42	0.52
6:F2:1066:ALA:HB3	6:F2:1067:PRO:HD3	1.91	0.52
9:I1:901:TYR:HE1	13:M1:573:ARG:HH12	1.53	0.52
9:I2:702:GLN:OE1	9:I2:702:GLN:N	2.41	0.52
9:I2:888:GLU:OE2	13:M3:597:LYS:N	2.43	0.52
9:I2:1034:ASP:OD1	13:M3:622:VAL:HG21	2.09	0.52
9:I2:1050:SER:CA	16:P3:142:LEU:H	2.22	0.52
9:I2:1284:GLU:N	9:I2:1284:GLU:OE1	2.38	0.52
9:I2:1644:ARG:HD3	10:J2:275:PHE:CE1	2.45	0.52
17:Q1:275:ILE:HD12	17:Q1:275:ILE:N	2.23	0.52
17:Q1:327:ALA:HA	17:Q1:330:THR:CG2	2.40	0.52
17:Q1:449:LEU:HD12	17:Q1:449:LEU:N	2.25	0.52
17:Q1:515:ASN:O	17:Q1:518:PRO:HD2	2.09	0.52
17:Q1:589:GLU:HG2	17:Q1:688:THR:HG23	1.91	0.52
17:Q1:618:LEU:HD23	17:Q1:618:LEU:C	2.35	0.52
17:Q1:657:LEU:C	17:Q1:662:ASN:HD22	2.17	0.52
17:Q1:790:HIS:HB2	17:Q1:814:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:802:ILE:HD13	17:Q1:802:ILE:C	2.34	0.52
17:Q1:934:VAL:HG22	17:Q1:935:GLU:N	2.24	0.52
17:Q2:657:LEU:H	17:Q2:657:LEU:CD2	2.23	0.52
17:Q2:749:LEU:O	17:Q2:749:LEU:HD23	2.10	0.52
18:R1:436:LEU:CA	18:R1:449:LEU:C	2.40	0.52
18:R1:443:GLU:O	18:R1:446:SER:HB2	2.10	0.52
18:R1:688:LEU:HD11	18:R1:721:THR:HG23	1.90	0.52
20:S2:548:TYR:HB2	21:T2:64:PRO:HB3	1.90	0.52
21:T2:154:ALA:HB2	21:T2:212:TRP:CE3	2.44	0.52
24:W2:70:TYR:HA	24:W2:80:THR:O	2.10	0.52
25:X2:775:THR:HG23	25:X2:791:ILE:CD1	2.40	0.52
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:NZ	2.53	0.52
26:Y2:1409:LEU:C	27:Z2:711:LYS:HZ3	2.16	0.52
27:Z1:143:VAL:HG21	27:Z1:211:PHE:CZ	2.45	0.52
27:Z1:213:PRO:HG2	27:Z1:213:PRO:O	2.08	0.52
27:Z1:395:LYS:HG2	27:Z2:266:ARG:CG	2.27	0.52
27:Z2:41:ASN:ND2	27:Z2:59:PHE:C	2.61	0.52
27:Z2:202:GLY:O	27:Z2:298:THR:HG23	2.08	0.52
27:Z2:210:PRO:C	27:Z2:211:PHE:CA	2.72	0.52
27:Z2:426:LEU:HD21	27:Z2:439:LEU:HD23	1.92	0.52
27:Z2:668:GLU:C	27:Z2:669:THR:CA	2.80	0.52
29:b2:27:ILE:CD1	29:b2:48:GLN:CD	2.83	0.52
1:A1:1017:THR:HG21	1:A1:1048:ARG:HH11	1.74	0.52
1:A2:1228:TYR:OH	1:A1:642:ARG:CD	2.57	0.52
1:A3:871:ASN:HB3	4:D1:515:ASN:CG	2.30	0.52
1:A3:1224:PRO:HD3	1:A4:648:TYR:CE1	2.44	0.52
1:A4:1048:ARG:NH1	4:D4:1095:ARG:HH11	2.07	0.52
4:D1:1032:PHE:N	4:D1:1033:PRO:HD2	2.25	0.52
4:D2:1032:PHE:N	4:D2:1033:PRO:HD2	2.25	0.52
6:F1:139:GLN:CD	9:I1:1340:LEU:HD11	2.27	0.52
6:F1:1053:LEU:HD23	9:I1:1388:GLU:CD	2.35	0.52
7:G1:249:ASP:O	15:O2:247:TRP:NE1	2.42	0.52
9:I2:922:ASP:OD1	15:O3:186:PHE:CG	2.29	0.52
9:I2:981:VAL:HG21	15:O3:175:SER:CB	2.12	0.52
9:I2:1103:LEU:HB3	13:M3:614:ASP:CA	2.36	0.52
9:I2:1103:LEU:HD22	15:O3:275:LEU:CD2	2.36	0.52
17:Q1:887:TRP:HB2	17:Q1:903:LEU:HD21	1.92	0.52
17:Q1:917:LEU:HD23	17:Q1:917:LEU:C	2.35	0.52
17:Q1:951:LEU:HD23	17:Q1:951:LEU:C	2.34	0.52
17:Q1:1016:PHE:HE1	17:Q1:1065:VAL:CG1	2.22	0.52
17:Q1:1125:SER:O	17:Q1:1126:ASP:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:120:ILE:HD13	17:Q2:120:ILE:C	2.34	0.52
17:Q2:515:ASN:O	17:Q2:518:PRO:HD2	2.09	0.52
17:Q2:951:LEU:HD23	17:Q2:951:LEU:C	2.34	0.52
17:Q2:979:SER:HB2	17:Q2:1104:ILE:HG23	1.90	0.52
17:Q2:1107:ASN:O	17:Q2:1111:GLU:HG3	2.10	0.52
19:R2:676:LYS:NZ	19:R2:679:LYS:HA	2.24	0.52
20:S2:483:GLU:OE2	20:S2:514:ARG:NH2	2.35	0.52
21:T1:117:LEU:HB2	21:T1:153:TRP:HE1	1.75	0.52
25:X2:800:HIS:NE2	27:Z2:691:SER:CB	2.73	0.52
25:X2:819:ASN:CG	25:X2:822:LYS:HD2	2.35	0.52
27:Z1:142:ILE:CG1	27:Z1:156:ILE:HD11	2.38	0.52
27:Z1:359:GLU:CB	27:Z1:361:LYS:CE	2.85	0.52
27:Z2:216:LEU:CD1	27:Z2:272:ILE:CG1	2.84	0.52
27:Z2:287:ILE:HD12	27:Z2:327:LEU:CD1	2.40	0.52
27:Z2:287:ILE:HD12	27:Z2:327:LEU:HD13	1.91	0.52
28:a1:1017:THR:HG22	28:a1:1017:THR:O	2.10	0.52
29:b1:16:ILE:CG1	29:b1:21:LYS:HG2	2.08	0.52
29:b2:72:GLU:CG	29:b2:75:HIS:CG	2.93	0.52
1:A2:1086:LYS:HE2	4:D1:1095:ARG:NE	2.25	0.52
1:A3:1222:ALA:C	1:A4:648:TYR:CZ	2.45	0.52
1:A3:1223:GLU:HB3	1:A4:644:ALA:HA	1.90	0.52
6:F1:138:ILE:CG2	9:I1:1391:THR:C	2.82	0.52
7:G1:250:THR:HG21	13:M2:595:MET:O	1.71	0.52
7:G2:253:SER:CB	15:O4:253:LEU:H	2.23	0.52
9:I2:960:SER:HB2	16:P3:154:ALA:O	2.00	0.52
13:M1:605:THR:O	15:O1:261:LYS:NZ	2.43	0.52
17:Q1:61:PHE:CD1	17:Q1:71:THR:HG23	2.45	0.52
17:Q1:288:ASN:HA	17:Q1:333:ILE:HG22	1.91	0.52
17:Q1:380:THR:OG1	17:Q1:512:ILE:CD1	2.57	0.52
17:Q1:536:GLU:CG	17:Q1:587:LEU:HD13	2.39	0.52
17:Q1:636:ILE:C	17:Q1:638:SER:H	2.17	0.52
17:Q2:61:PHE:CD1	17:Q2:71:THR:HG23	2.45	0.52
17:Q2:288:ASN:HA	17:Q2:333:ILE:HG22	1.91	0.52
17:Q2:449:LEU:HD12	17:Q2:449:LEU:N	2.25	0.52
17:Q2:646:PHE:CE2	17:Q2:669:VAL:HG12	2.44	0.52
17:Q2:700:GLU:HB3	17:Q2:758:ILE:CG2	2.39	0.52
17:Q2:825:ASP:HA	17:Q2:828:THR:OG1	2.08	0.52
17:Q2:917:LEU:HD23	17:Q2:917:LEU:C	2.35	0.52
18:R1:530:ILE:HG13	18:R1:549:PHE:CE2	2.42	0.52
19:R2:534:SER:O	19:R2:546:LEU:HD21	2.09	0.52
19:R2:539:LEU:HD22	19:R2:658:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:299:GLU:HB2	27:Z1:652:GLN:HB3	0.53	0.52
22:U2:10:ASP:HB3	22:U2:29:SER:HB2	1.92	0.52
24:W1:466:TYR:HB3	24:W1:470:ILE:HB	1.92	0.52
25:X1:642:THR:O	25:X1:646:ASN:OD1	2.27	0.52
25:X1:747:THR:HG22	25:X1:751:LEU:HD12	1.92	0.52
25:X1:819:ASN:CG	25:X1:822:LYS:HD2	2.34	0.52
25:X2:747:THR:HG22	25:X2:751:LEU:HD12	1.92	0.52
25:X2:814:LEU:CD2	25:X2:817:GLN:OE1	2.53	0.52
26:Y2:1228:LEU:HD12	27:Z2:539:ILE:HG23	1.88	0.52
26:Y2:1277:LYS:CE	27:Z2:570:ILE:CB	2.84	0.52
26:Y2:1345:LEU:HD21	26:Y2:1348:LYS:HZ2	1.64	0.52
26:Y2:1369:PHE:HZ	27:Z2:683:LEU:HD13	1.75	0.52
26:Y2:1450:GLY:O	26:Y2:1454:LYS:HG3	2.08	0.52
27:Z1:312:ASN:ND2	27:Z1:397:ILE:HD12	2.20	0.52
27:Z2:35:ILE:HG12	27:Z2:46:TYR:CZ	2.42	0.52
27:Z2:213:PRO:HG2	27:Z2:213:PRO:O	2.08	0.52
27:Z2:628:MET:HG3	27:Z2:632:LYS:HE3	1.92	0.52
1:A2:1222:ALA:O	1:A1:595:GLU:C	2.52	0.52
6:F1:143:GLY:C	9:I1:1394:ASN:C	2.78	0.52
6:F1:1807:GLU:N	6:F1:1807:GLU:OE1	2.42	0.52
7:G1:253:SER:CB	13:M2:595:MET:SD	2.66	0.52
7:G1:257:THR:HG23	7:G1:257:THR:O	2.10	0.52
9:I1:842:ASN:OD1	9:I1:843:GLU:N	2.43	0.52
9:I1:964:SER:OG	15:O1:182:THR:HG23	2.08	0.52
9:I1:1049:LEU:N	15:O1:170:LEU:C	2.66	0.52
9:I2:893:LEU:HD13	13:M3:591:ASP:OD2	2.10	0.52
9:I2:967:SER:HB2	16:P3:145:SER:HA	0.65	0.52
9:I2:1046:HIS:HE1	14:N3:289:PHE:CE2	2.21	0.52
9:I2:1107:SER:N	13:M3:615:PRO:HG3	2.25	0.52
17:Q1:120:ILE:HD13	17:Q1:120:ILE:C	2.34	0.52
17:Q1:210:LEU:HD11	17:Q1:270:LEU:HB2	1.92	0.52
17:Q1:381:TYR:O	17:Q1:512:ILE:HG13	2.00	0.52
17:Q1:646:PHE:HE2	17:Q1:669:VAL:CB	2.22	0.52
17:Q1:700:GLU:HB3	17:Q1:758:ILE:CG2	2.39	0.52
17:Q1:856:LYS:HB2	17:Q1:859:ASP:HA	1.91	0.52
17:Q1:1002:LEU:HD11	17:Q1:1006:TYR:HE1	1.74	0.52
17:Q2:516:LEU:HD12	17:Q2:573:LYS:HZ1	1.75	0.52
17:Q2:636:ILE:O	17:Q2:637:ASN:HB2	2.09	0.52
17:Q2:711:ASN:CA	17:Q2:715:LEU:HD13	2.28	0.52
17:Q2:802:ILE:HD13	17:Q2:802:ILE:C	2.34	0.52
18:R1:206:ILE:HG23	20:S1:336:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:514:VAL:HG13	18:R1:515:GLU:N	2.23	0.52
18:R1:617:ILE:HG23	18:R1:618:GLU:N	2.23	0.52
22:U1:53:ALA:HB1	22:U1:84:TRP:CZ2	2.44	0.52
22:U2:140:LEU:HA	23:V2:553:ILE:CB	2.40	0.52
25:X1:800:HIS:NE2	27:Z1:691:SER:CB	2.73	0.52
27:Z1:26:ILE:CD1	27:Z1:37:PHE:CE1	2.90	0.52
27:Z1:314:ILE:HG23	27:Z1:327:LEU:O	2.09	0.52
27:Z1:544:THR:O	27:Z2:558:PHE:CD2	2.63	0.52
27:Z2:142:ILE:CD1	27:Z2:156:ILE:HD11	2.40	0.52
27:Z2:184:ASP:OD1	27:Z2:184:ASP:C	2.52	0.52
27:Z2:389:TRP:HZ3	27:Z2:393:LEU:CD1	2.12	0.52
28:a2:1017:THR:HG22	28:a2:1017:THR:O	2.10	0.52
29:b1:61:VAL:HG22	29:b1:86:PHE:HD2	1.69	0.52
1:A2:1226:LEU:CD2	1:A1:646:ILE:HB	2.40	0.52
1:A2:1228:TYR:OH	1:A1:639:ASN:O	2.26	0.52
1:A2:1280:GLN:O	1:A1:635:ARG:HD3	2.05	0.52
1:A3:1332:ARG:NH2	4:D3:902:SER:N	2.57	0.52
1:A4:521:ASN:ND2	4:D3:1019:ARG:HH22	2.07	0.52
4:D2:839:ASP:OD2	4:D2:947:SER:HB3	2.10	0.52
6:F1:156:LEU:HD11	9:I1:1392:VAL:HG22	1.92	0.52
6:F2:158:PRO:CB	9:I2:1337:ALA:HB3	2.36	0.52
9:I1:1644:ARG:HD3	10:J1:275:PHE:CE1	2.45	0.52
9:I2:1103:LEU:CG	13:M3:611:LYS:CB	2.58	0.52
9:I2:1106:LYS:HA	15:O3:277:GLU:CB	2.40	0.52
9:I2:1160:ILE:HD13	15:O3:263:GLN:C	2.33	0.52
9:I2:1255:HIS:CD2	14:N3:407:ALA:HB1	1.05	0.52
17:Q1:382:ARG:HH11	17:Q1:513:ASP:N	2.06	0.52
17:Q1:384:ASN:HA	17:Q1:509:ALA:N	2.23	0.52
17:Q1:642:PHE:CB	17:Q1:643:PRO:HD3	2.37	0.52
17:Q1:651:ASN:C	17:Q1:654:VAL:HG22	2.35	0.52
17:Q1:887:TRP:O	17:Q1:890:GLN:HB2	2.10	0.52
17:Q1:1043:ARG:NE	17:Q1:1117:ILE:HD13	2.24	0.52
17:Q2:366:ILE:HD12	17:Q2:377:ILE:HD13	1.92	0.52
17:Q2:552:THR:C	17:Q2:556:HIS:HB2	2.35	0.52
17:Q2:646:PHE:HE2	17:Q2:669:VAL:CB	2.22	0.52
17:Q2:867:GLN:HG3	17:Q2:868:HIS:N	2.25	0.52
17:Q2:964:LEU:HD13	17:Q2:988:VAL:HG23	1.91	0.52
17:Q2:1016:PHE:HE1	17:Q2:1065:VAL:CG1	2.23	0.52
18:R1:159:ASP:OD2	20:S1:319:LEU:N	2.29	0.52
19:R2:534:SER:CB	19:R2:546:LEU:HD22	2.39	0.52
20:S1:397:GLU:OE1	20:S1:397:GLU:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S2:524:ASN:O	20:S2:528:LEU:HG	2.10	0.52
22:U1:10:ASP:HB3	22:U1:29:SER:HB2	1.92	0.52
24:W1:500:GLU:HB2	24:W1:507:PHE:CZ	2.45	0.52
25:X1:714:PHE:CE2	26:Y1:1313:ALA:HA	2.45	0.52
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CG	2.23	0.52
25:X2:717:LYS:HZ2	27:Z1:49:LEU:CG	2.12	0.52
26:Y1:1305:GLN:CD	27:Z1:599:MET:HG3	2.34	0.52
26:Y1:1386:ALA:CB	26:Y2:1360:GLU:CA	2.88	0.52
26:Y2:1225:PHE:HB2	27:Z2:539:ILE:HD13	1.89	0.52
27:Z1:23:PRO:C	27:Z1:23:PRO:CA	2.83	0.52
27:Z2:41:ASN:C	27:Z2:59:PHE:CE1	2.87	0.52
27:Z2:142:ILE:CG1	27:Z2:156:ILE:HD11	2.38	0.52
27:Z2:209:TYR:CE2	27:Z2:335:MET:CA	2.93	0.52
27:Z2:383:GLN:NE2	27:Z2:417:ILE:CD1	2.73	0.52
27:Z2:582:GLU:CA	27:Z2:582:GLU:OE1	2.54	0.52
1:A3:1222:ALA:CB	1:A4:598:VAL:CB	2.88	0.52
6:F1:139:GLN:CD	9:I1:1336:MET:SD	2.89	0.52
6:F1:158:PRO:CG	9:I1:1339:LEU:H	2.17	0.52
9:I1:816:ASP:OD1	9:I1:817:ASP:N	2.42	0.52
9:I1:1312:ASN:CG	15:O1:265:ASN:OD1	2.53	0.52
9:I1:1326:GLU:OE1	10:J1:251:TYR:CE2	2.63	0.52
9:I2:921:GLU:C	15:O3:186:PHE:CZ	2.71	0.52
9:I2:1049:LEU:H	14:N3:293:LYS:CB	2.23	0.52
9:I2:1255:HIS:CB	14:N3:407:ALA:HB1	2.34	0.52
9:I2:1326:GLU:OE1	10:J2:251:TYR:CE2	2.63	0.52
17:Q1:584:LYS:CG	17:Q1:709:PHE:CZ	2.92	0.52
17:Q1:646:PHE:CE2	17:Q1:669:VAL:HG12	2.45	0.52
17:Q1:649:PHE:O	17:Q1:653:VAL:HG23	2.10	0.52
17:Q1:1107:ASN:O	17:Q1:1111:GLU:HG3	2.10	0.52
17:Q2:334:TRP:NE1	17:Q2:352:TYR:CD2	2.78	0.52
17:Q2:536:GLU:CG	17:Q2:587:LEU:HD13	2.39	0.52
17:Q2:636:ILE:HG13	17:Q2:637:ASN:N	2.24	0.52
17:Q2:670:THR:O	17:Q2:743:LEU:HD11	2.09	0.52
17:Q2:808:TYR:HD2	17:Q2:811:LEU:HB2	1.75	0.52
19:R2:610:GLU:HA	19:R2:610:GLU:OE1	2.10	0.52
19:R2:704:LEU:HD22	19:R2:704:LEU:H	1.74	0.52
21:T1:154:ALA:HB2	21:T1:212:TRP:CE3	2.44	0.52
25:X1:665:TRP:CZ2	27:Z1:560:LEU:CG	2.93	0.52
25:X1:753:GLU:C	25:X1:756:ASN:ND2	2.68	0.52
25:X1:776:PHE:HE2	26:Y1:1369:PHE:CE1	2.28	0.52
25:X2:665:TRP:CZ2	27:Z2:560:LEU:CG	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:679:LEU:O	26:Y2:1281:MET:CE	2.53	0.52
25:X2:711:LEU:CD1	26:Y2:1309:ASP:OD2	2.57	0.52
25:X2:714:PHE:CE2	26:Y2:1313:ALA:HA	2.45	0.52
25:X2:744:ALA:HB1	27:Z2:631:PHE:CE1	2.43	0.52
26:Y1:1235:MET:HE3	27:Z1:550:HIS:N	2.24	0.52
26:Y1:1294:LYS:HG2	27:Z1:588:TRP:CZ2	2.19	0.52
26:Y2:1332:LYS:NZ	27:Z1:55:HIS:CD2	2.78	0.52
27:Z1:41:ASN:ND2	27:Z1:59:PHE:C	2.61	0.52
27:Z1:142:ILE:CD1	27:Z1:156:ILE:HD11	2.40	0.52
27:Z1:209:TYR:N	27:Z1:210:PRO:HD2	2.20	0.52
27:Z1:217:LEU:HD22	27:Z1:269:LYS:CD	1.97	0.52
27:Z1:248:ASN:O	27:Z1:252:GLN:HG2	2.10	0.52
27:Z1:325:ILE:HG22	27:Z1:327:LEU:CD2	2.40	0.52
27:Z1:426:LEU:HD21	27:Z1:439:LEU:HD23	1.92	0.52
27:Z1:544:THR:O	27:Z2:558:PHE:HD2	1.93	0.52
27:Z1:612:ILE:HG22	27:Z1:612:ILE:C	2.35	0.52
27:Z1:690:ASP:O	27:Z1:694:ILE:CG1	2.54	0.52
27:Z2:297:TYR:CD1	27:Z2:320:ASP:HB2	2.45	0.52
29:b1:14:SER:CB	29:b1:21:LYS:HE2	2.40	0.52
29:b1:75:HIS:HE1	29:b1:90:LYS:NZ	2.08	0.52
1:A3:1327:VAL:CA	4:D3:876:SER:CB	2.87	0.51
4:D1:673:LEU:CG	1:A1:1094:ILE:HG21	2.39	0.51
4:D1:1057:GLN:CG	4:D1:1080:LEU:HD13	2.41	0.51
4:D3:839:ASP:OD2	4:D3:947:SER:HB3	2.10	0.51
4:D4:1057:GLN:CG	4:D4:1080:LEU:HD13	2.40	0.51
9:I1:908:ARG:HE	15:O1:209:LEU:HD13	0.72	0.51
9:I1:1644:ARG:CZ	10:J1:275:PHE:CE2	2.93	0.51
9:I2:892:HIS:HA	13:M3:588:MET:HA	1.89	0.51
9:I2:968:PRO:CG	14:N3:300:ALA:C	2.65	0.51
9:I2:1029:LEU:N	13:M3:612:PRO:C	2.35	0.51
13:M3:494:GLU:OE2	13:M3:497:ARG:NH2	2.42	0.51
15:O4:81:LEU:O	15:O4:85:LYS:HG2	2.10	0.51
17:Q1:200:ILE:HD13	17:Q1:200:ILE:N	2.20	0.51
17:Q1:220:VAL:HG23	17:Q1:220:VAL:O	2.10	0.51
17:Q1:366:ILE:HD12	17:Q1:377:ILE:HD13	1.92	0.51
17:Q1:426:ILE:CD1	17:Q1:443:TRP:CH2	2.94	0.51
17:Q1:426:ILE:HB	17:Q1:479:VAL:HG21	1.92	0.51
17:Q1:557:LEU:HD12	17:Q1:632:LYS:CD	2.39	0.51
17:Q1:975:PHE:HE1	17:Q1:1044:ARG:HH21	1.58	0.51
17:Q2:847:LEU:HD21	17:Q2:875:PHE:CE2	2.45	0.51
17:Q2:852:ILE:HG23	17:Q2:853:LYS:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W2:500:GLU:HB2	24:W2:507:PHE:CZ	2.45	0.51
25:X1:691:ASN:O	25:X1:695:GLN:HG3	2.10	0.51
25:X1:742:GLN:NE2	25:X1:743:GLN:N	2.57	0.51
26:Y1:1285:ASN:HA	26:Y1:1288:ILE:HG12	1.92	0.51
26:Y2:1123:GLN:OE1	29:b1:37:LEU:HD21	2.09	0.51
26:Y2:1236:ASP:C	26:Y2:1239:PHE:CE2	2.84	0.51
26:Y2:1277:LYS:HD2	27:Z2:567:THR:HG23	1.91	0.51
27:Z1:182:ILE:CB	27:Z1:198:ASN:OD1	2.59	0.51
27:Z1:209:TYR:CE2	27:Z1:335:MET:CA	2.93	0.51
27:Z1:288:ASN:O	27:Z1:289:PRO:O	2.25	0.51
27:Z1:297:TYR:CD1	27:Z1:320:ASP:HB2	2.46	0.51
27:Z1:537:GLN:O	27:Z2:552:ARG:HG3	2.03	0.51
27:Z2:144:VAL:N	27:Z2:152:THR:O	2.40	0.51
27:Z2:192:LEU:CD1	27:Z2:226:ILE:HD13	2.32	0.51
27:Z2:417:ILE:HG23	27:Z2:448:GLN:OE1	2.10	0.51
27:Z2:637:GLN:HA	27:Z2:640:GLN:CG	2.39	0.51
27:Z2:690:ASP:O	27:Z2:694:ILE:CG1	2.54	0.51
1:A2:1229:VAL:HG21	1:A1:640:LEU:O	2.07	0.51
1:A2:1230:TYR:HH	1:A1:590:SER:HA	1.74	0.51
1:A2:1233:GLN:HE21	1:A1:640:LEU:HD11	0.68	0.51
1:A3:862:LEU:CD1	1:A3:904:GLN:HB3	2.41	0.51
1:A3:1070:ASP:O	9:I2:1238:LYS:CE	2.59	0.51
1:A3:1221:ILE:HG21	1:A4:596:ARG:CG	2.38	0.51
4:D3:692:ILE:HD13	5:E3:77:PHE:CE2	2.45	0.51
6:F1:1165:VAL:HG12	6:F1:1166:GLY:H	1.76	0.51
6:F1:1832:ASN:N	6:F1:1835:GLU:OE2	2.44	0.51
9:I1:301:GLN:OE1	9:I1:301:GLN:N	2.42	0.51
9:I1:1543:LEU:HD22	10:J2:300:ILE:HG21	1.86	0.51
9:I2:842:ASN:OD1	9:I2:843:GLU:N	2.43	0.51
9:I2:1049:LEU:HD11	16:P3:142:LEU:CA	2.29	0.51
9:I2:1644:ARG:CZ	10:J2:275:PHE:CE2	2.93	0.51
13:M2:605:THR:O	15:O2:261:LYS:NZ	2.43	0.51
17:Q1:242:LEU:CD2	17:Q1:242:LEU:H	2.18	0.51
17:Q1:334:TRP:NE1	17:Q1:352:TYR:CD2	2.78	0.51
17:Q1:345:GLN:CG	17:Q1:346:LEU:HD22	2.16	0.51
17:Q1:384:ASN:HB3	17:Q1:509:ALA:CB	2.39	0.51
17:Q1:432:LYS:O	17:Q1:432:LYS:HG3	2.10	0.51
17:Q1:516:LEU:HD13	17:Q1:570:PHE:CE1	2.44	0.51
17:Q1:827:THR:HG23	17:Q1:830:SER:CB	2.39	0.51
17:Q2:400:PHE:CD1	17:Q2:460:TYR:CD1	2.98	0.51
17:Q2:636:ILE:C	17:Q2:638:SER:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:649:PHE:O	17:Q2:653:VAL:HG23	2.10	0.51
17:Q2:650:LEU:HD11	17:Q2:666:LYS:HA	1.91	0.51
17:Q2:743:LEU:HD23	17:Q2:743:LEU:C	2.34	0.51
17:Q2:1078:LEU:HB2	17:Q2:1153:ASN:OD1	2.10	0.51
19:R2:511:ILE:HG23	19:R2:512:TYR:N	2.25	0.51
20:S2:525:ASP:HA	20:S2:528:LEU:HD12	1.90	0.51
25:X1:742:GLN:OE1	25:X1:743:GLN:HG2	1.98	0.51
25:X1:790:ASN:HA	27:Z1:680:TRP:HZ2	1.75	0.51
26:Y1:1336:THR:O	26:Y1:1340:ARG:CG	2.58	0.51
26:Y1:1389:SER:OG	26:Y2:1357:ASN:OD1	2.26	0.51
26:Y2:1211:LEU:HD13	26:Y2:1214:ILE:HD11	1.90	0.51
27:Z1:241:THR:CA	27:Z1:246:LYS:HE2	2.32	0.51
27:Z1:294:LEU:CD1	27:Z1:325:ILE:CD1	2.84	0.51
27:Z2:34:ARG:CB	27:Z2:95:TRP:HH2	2.23	0.51
27:Z2:396:CYS:O	27:Z2:400:SER:N	2.41	0.51
27:Z2:417:ILE:O	27:Z2:418:ALA:HB2	2.10	0.51
1:A2:1200:ARG:HB2	1:A1:591:ASP:C	2.35	0.51
1:A3:1070:ASP:CA	9:I2:1238:LYS:NZ	2.72	0.51
1:A4:862:LEU:CD1	1:A4:904:GLN:HB3	2.41	0.51
4:D4:839:ASP:OD2	4:D4:947:SER:HB3	2.10	0.51
6:F1:1049:GLN:CA	9:I1:1388:GLU:N	2.74	0.51
6:F1:1265:GLN:HA	15:O2:252:VAL:CG2	2.41	0.51
9:I1:899:LEU:O	13:M1:576:LYS:C	2.53	0.51
9:I1:900:ARG:HA	13:M1:577:LEU:CA	2.38	0.51
9:I2:899:LEU:CA	13:M3:580:LYS:C	2.74	0.51
9:I2:1028:CYS:C	13:M3:612:PRO:O	2.54	0.51
17:Q1:847:LEU:HA	17:Q1:876:GLN:HE22	1.74	0.51
17:Q1:852:ILE:HG23	17:Q1:853:LYS:N	2.24	0.51
17:Q1:1063:LYS:HD2	17:Q1:1067:ASP:OD2	2.09	0.51
17:Q2:94:ILE:HG23	17:Q2:94:ILE:O	2.08	0.51
17:Q2:210:LEU:HD11	17:Q2:270:LEU:HB2	1.92	0.51
17:Q2:288:ASN:CG	17:Q2:332:LYS:HG2	2.35	0.51
17:Q2:361:TYR:OH	17:Q2:387:MET:HG3	2.10	0.51
17:Q2:432:LYS:O	17:Q2:432:LYS:HG3	2.10	0.51
17:Q2:669:VAL:HG23	17:Q2:670:THR:N	2.23	0.51
17:Q2:703:THR:OG1	17:Q2:709:PHE:HB2	2.10	0.51
17:Q2:831:LEU:HD12	17:Q2:835:PHE:HB3	1.91	0.51
17:Q2:1002:LEU:HD11	17:Q2:1006:TYR:HE1	1.75	0.51
17:Q2:1064:ARG:O	17:Q2:1068:GLU:HG2	2.11	0.51
18:R1:210:MET:O	20:S1:325:TYR:OH	2.21	0.51
18:R1:610:GLU:HA	18:R1:610:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:508:MET:O	19:R2:512:TYR:HD2	1.94	0.51
21:T2:214:PRO:HG2	21:T2:264:LEU:HA	1.93	0.51
22:U2:117:ALA:HB3	22:U2:124:LYS:HB3	1.93	0.51
23:V2:152:LEU:O	23:V2:156:GLU:HG3	2.11	0.51
25:X1:722:LEU:O	25:X1:726:VAL:HG23	2.10	0.51
25:X2:690:GLN:CG	27:Z2:581:PHE:CZ	2.91	0.51
25:X2:693:ILE:CB	27:Z2:7:LEU:CG	2.46	0.51
25:X2:704:GLN:NE2	27:Z2:598:LEU:CD1	2.62	0.51
26:Y2:1294:LYS:HG2	27:Z2:588:TRP:CZ2	2.19	0.51
27:Z1:208:PHE:HD1	27:Z1:211:PHE:H	1.58	0.51
27:Z1:241:THR:CB	27:Z1:246:LYS:HZ1	2.23	0.51
27:Z1:328:PHE:HB3	27:Z1:351:ILE:HD11	1.92	0.51
27:Z1:401:ASP:CG	27:Z2:260:HIS:O	2.53	0.51
27:Z2:116:ILE:CG1	27:Z2:124:LYS:HB3	2.34	0.51
27:Z2:137:TYR:CA	27:Z2:217:LEU:CG	2.88	0.51
27:Z2:428:TYR:CD2	27:Z2:428:TYR:C	2.88	0.51
29:b1:16:ILE:HG22	29:b1:75:HIS:HA	1.91	0.51
1:A2:1220:PRO:C	1:A1:599:ARG:HB2	2.35	0.51
1:A4:521:ASN:HB3	4:D3:1019:ARG:HH21	1.48	0.51
4:D4:1032:PHE:N	4:D4:1033:PRO:HD2	2.25	0.51
6:F2:1165:VAL:HG12	6:F2:1166:GLY:H	1.76	0.51
9:I1:1254:VAL:HG21	15:O1:259:ASP:HA	1.92	0.51
9:I2:401:GLN:N	9:I2:401:GLN:OE1	2.43	0.51
9:I2:899:LEU:HD11	13:M3:585:LEU:N	2.15	0.51
17:Q1:242:LEU:HD23	17:Q1:242:LEU:N	2.20	0.51
17:Q1:361:TYR:OH	17:Q1:387:MET:HG3	2.11	0.51
17:Q1:567:PHE:O	17:Q1:570:PHE:HB3	2.11	0.51
17:Q1:587:LEU:HD23	17:Q1:587:LEU:C	2.35	0.51
17:Q1:843:PHE:CE1	17:Q1:875:PHE:HZ	2.21	0.51
17:Q1:960:ILE:CG2	17:Q1:991:LEU:HD11	2.28	0.51
17:Q2:69:VAL:HG23	17:Q2:69:VAL:O	2.10	0.51
17:Q2:228:ILE:HG13	17:Q2:228:ILE:O	2.10	0.51
17:Q2:651:ASN:C	17:Q2:654:VAL:HG22	2.35	0.51
17:Q2:798:LYS:HZ1	17:Q2:822:ASP:HB3	1.73	0.51
17:Q2:856:LYS:HB2	17:Q2:859:ASP:HA	1.91	0.51
17:Q2:933:LEU:HD23	19:R2:711:LEU:C	2.35	0.51
17:Q2:975:PHE:HE1	17:Q2:1044:ARG:HH21	1.58	0.51
19:R2:533:LEU:CG	19:R2:537:PHE:CE2	2.93	0.51
19:R2:667:LEU:HD13	19:R2:667:LEU:C	2.34	0.51
22:U1:209:PRO:HD2	27:Z1:658:LEU:O	2.08	0.51
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CD2	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:655:PHE:HZ	27:Z2:545:LEU:CB	1.90	0.51
25:X2:655:PHE:CE2	27:Z2:545:LEU:C	2.89	0.51
25:X2:717:LYS:NZ	27:Z1:49:LEU:CG	2.73	0.51
26:Y2:1372:LYS:CD	27:Z2:679:GLU:OE1	2.36	0.51
27:Z1:129:LYS:NZ	27:Z1:185:LEU:HD12	2.18	0.51
27:Z1:351:ILE:HD12	27:Z1:389:TRP:HH2	1.74	0.51
27:Z2:129:LYS:NZ	27:Z2:185:LEU:HD12	2.19	0.51
27:Z2:325:ILE:HG22	27:Z2:327:LEU:CD2	2.40	0.51
27:Z2:449:ASN:CG	27:Z2:576:ASP:CB	2.83	0.51
29:b1:68:TYR:CE2	29:b2:46:LYS:CG	2.93	0.51
1:A3:1223:GLU:HG2	1:A4:647:GLU:CB	2.17	0.51
1:A3:1268:ASP:O	1:A4:730:THR:CG2	2.59	0.51
4:D1:839:ASP:OD2	4:D1:947:SER:HB3	2.10	0.51
6:F1:267:GLU:CD	11:K1:638:PRO:HD2	2.34	0.51
6:F2:138:ILE:O	9:I2:1391:THR:HG21	2.10	0.51
6:F2:835:ILE:O	6:F2:835:ILE:HG13	2.09	0.51
6:F2:1000:LEU:HD12	6:F2:1001:ILE:HG23	1.93	0.51
9:I1:916:ALA:HB1	13:M1:534:GLN:NE2	2.15	0.51
9:I1:1667:GLN:HA	9:I2:1668:HIS:HA	1.92	0.51
9:I2:1305:LEU:HD11	15:O3:260:LEU:HD12	1.93	0.51
17:Q1:867:GLN:HG3	17:Q1:868:HIS:N	2.25	0.51
17:Q2:327:ALA:HA	17:Q2:330:THR:CG2	2.40	0.51
17:Q2:426:ILE:CD1	17:Q2:443:TRP:CH2	2.93	0.51
17:Q2:426:ILE:HB	17:Q2:479:VAL:HG21	1.92	0.51
17:Q2:520:ILE:O	17:Q2:523:ASP:HB3	2.11	0.51
17:Q2:618:LEU:HD23	17:Q2:618:LEU:C	2.35	0.51
18:R1:539:LEU:HD22	18:R1:658:LEU:CD2	2.40	0.51
20:S1:153:LYS:HA	21:T1:261:SER:CB	2.41	0.51
20:S2:526:HIS:C	20:S2:528:LEU:N	2.68	0.51
22:U1:208:LEU:CD1	27:Z1:660:SER:CB	2.57	0.51
24:W1:70:TYR:HA	24:W1:80:THR:O	2.10	0.51
24:W1:531:LYS:HB3	24:W1:553:ILE:HG12	1.93	0.51
26:Y1:1277:LYS:CD	27:Z1:571:ILE:CG1	2.88	0.51
26:Y1:1455:ASN:HB3	26:Y1:1456:LEU:N	2.21	0.51
26:Y2:1235:MET:HE3	27:Z2:550:HIS:N	2.23	0.51
26:Y2:1285:ASN:HA	26:Y2:1288:ILE:HG12	1.93	0.51
27:Z1:34:ARG:CB	27:Z1:95:TRP:HH2	2.23	0.51
27:Z1:137:TYR:CA	27:Z1:217:LEU:CG	2.88	0.51
27:Z1:186:GLU:CG	27:Z1:302:ILE:O	2.57	0.51
27:Z2:182:ILE:CD1	27:Z2:198:ASN:CG	2.84	0.51
27:Z2:314:ILE:HG23	27:Z2:327:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:381:ILE:CD1	27:Z2:424:PRO:CG	2.86	0.51
27:Z2:576:ASP:O	27:Z2:580:LYS:HG3	2.10	0.51
1:A2:1233:GLN:CG	1:A1:587:VAL:HG13	2.33	0.51
1:A3:1223:GLU:HG2	1:A4:648:TYR:CE2	2.29	0.51
1:A4:442:ARG:NE	4:D3:1021:ASP:HB3	2.16	0.51
4:D4:1016:LEU:HD11	4:D4:1087:LEU:HD11	1.93	0.51
9:I1:905:ALA:HB2	13:M1:573:ARG:NH1	2.26	0.51
9:I1:912:VAL:CB	13:M1:542:ASP:CG	2.83	0.51
9:I2:1032:THR:N	13:M3:617:THR:HG23	2.25	0.51
15:O3:81:LEU:O	15:O3:85:LYS:HG2	2.10	0.51
17:Q1:92:MET:HE2	17:Q1:140:LEU:HB3	1.92	0.51
17:Q1:178:ILE:HG23	17:Q1:179:ASN:N	2.26	0.51
17:Q1:196:LEU:HD13	17:Q1:197:GLU:C	2.36	0.51
17:Q1:288:ASN:CG	17:Q1:332:LYS:HG2	2.35	0.51
17:Q1:808:TYR:HD2	17:Q1:811:LEU:HB2	1.75	0.51
17:Q1:1064:ARG:O	17:Q1:1068:GLU:HG2	2.11	0.51
17:Q2:94:ILE:O	17:Q2:96:TYR:HD1	1.92	0.51
17:Q2:654:VAL:CB	17:Q2:666:LYS:HE2	2.40	0.51
17:Q2:973:LYS:HD3	17:Q2:976:LYS:NZ	2.25	0.51
18:R1:431:ILE:H	18:R1:431:ILE:HD12	1.74	0.51
19:R2:157:ASP:HB3	20:S2:355:ILE:HG21	1.92	0.51
24:W2:58:ASN:HB3	24:W2:70:TYR:CZ	2.46	0.51
25:X1:655:PHE:CE2	27:Z1:545:LEU:C	2.89	0.51
25:X2:699:TYR:CE1	27:Z2:49:LEU:HD22	2.44	0.51
25:X2:823:LYS:NZ	27:Z1:272:ILE:H	2.08	0.51
26:Y1:1277:LYS:HG3	27:Z1:571:ILE:CG1	2.40	0.51
27:Z1:180:ASN:O	27:Z1:198:ASN:HB3	2.11	0.51
27:Z1:319:PHE:HD2	27:Z1:323:SER:O	1.94	0.51
27:Z1:371:GLY:O	27:Z1:386:PHE:CD1	2.63	0.51
27:Z1:576:ASP:O	27:Z1:580:LYS:HG3	2.10	0.51
27:Z1:628:MET:HG3	27:Z1:632:LYS:HE3	1.91	0.51
27:Z2:102:ASP:CB	27:Z2:105:ILE:HD12	2.41	0.51
27:Z2:133:HIS:CE1	27:Z2:211:PHE:CE1	2.99	0.51
27:Z2:289:PRO:CD	27:Z2:350:LEU:CB	2.73	0.51
27:Z2:417:ILE:HG22	27:Z2:448:GLN:OE1	2.10	0.51
29:b2:49:LEU:HB3	29:b2:57:TRP:CD1	2.45	0.51
1:A1:1242:THR:HG21	1:A1:1248:ILE:HD11	1.93	0.51
1:A2:1221:ILE:HG12	1:A1:596:ARG:HD2	1.70	0.51
1:A2:1221:ILE:HD13	1:A1:596:ARG:HD3	1.93	0.51
1:A2:1229:VAL:CG2	1:A1:643:ALA:HB3	2.41	0.51
1:A2:1268:ASP:OD2	1:A1:729:SER:CB	2.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1269:ALA:C	1:A1:730:THR:OG1	2.42	0.51
1:A3:1327:VAL:O	4:D3:876:SER:N	2.40	0.51
4:D2:569:GLU:HA	4:D2:572:GLN:HG2	1.93	0.51
4:D4:692:ILE:HD13	5:E4:77:PHE:CE2	2.45	0.51
6:F1:163:ASP:CG	9:I1:1331:LYS:CB	2.49	0.51
7:G1:247:ASP:OD1	15:O2:247:TRP:CZ3	2.63	0.51
7:G1:251:TYR:CE1	15:O2:248:SER:OG	2.63	0.51
9:I1:896:PRO:C	13:M1:580:LYS:CA	2.58	0.51
9:I2:914:ASN:ND2	15:O3:194:GLU:CD	2.69	0.51
9:I2:961:ARG:HG3	16:P3:155:GLU:CA	2.41	0.51
9:I2:1048:GLU:OE1	14:N3:293:LYS:NZ	2.44	0.51
9:I2:1099:ARG:NH1	13:M3:609:GLY:N	2.58	0.51
9:I2:1305:LEU:HD12	15:O3:263:GLN:OE1	1.49	0.51
17:Q1:584:LYS:HD3	17:Q1:709:PHE:CZ	2.46	0.51
17:Q1:601:ASN:O	17:Q1:602:SER:HB2	2.10	0.51
17:Q1:684:GLU:HA	17:Q1:688:THR:HG1	1.76	0.51
17:Q1:703:THR:OG1	17:Q1:709:PHE:HB2	2.10	0.51
17:Q1:827:THR:HA	17:Q1:830:SER:OG	2.11	0.51
17:Q1:1062:VAL:CG1	17:Q1:1140:VAL:HG21	2.41	0.51
17:Q2:98:LEU:HB2	17:Q2:107:ILE:HG22	1.92	0.51
17:Q2:587:LEU:HD23	17:Q2:587:LEU:C	2.36	0.51
17:Q2:615:GLU:HB2	17:Q2:645:ILE:CG1	2.39	0.51
18:R1:157:ASP:HB3	20:S1:355:ILE:HG21	1.92	0.51
18:R1:527:VAL:CG1	18:R1:557:GLU:HG3	2.41	0.51
18:R1:621:GLN:CB	18:R1:670:LYS:HE2	2.41	0.51
19:R2:580:PHE:CE2	19:R2:584:ILE:CD1	2.94	0.51
19:R2:591:ILE:HG23	19:R2:592:LYS:N	2.25	0.51
19:R2:713:GLU:O	19:R2:717:LEU:HG	2.11	0.51
22:U1:241:ARG:HB3	27:Z1:656:SER:OG	2.08	0.51
24:W1:58:ASN:HB3	24:W1:70:TYR:CZ	2.46	0.51
24:W2:531:LYS:HB3	24:W2:553:ILE:HG12	1.93	0.51
26:Y1:1124:THR:HG21	29:b1:65:PHE:CE1	2.45	0.51
26:Y1:1363:LEU:HD23	26:Y1:1366:LEU:CD1	2.25	0.51
26:Y2:1406:VAL:HG21	27:Z2:704:VAL:HG13	1.92	0.51
27:Z1:24:ARG:HH21	27:Z1:440:MET:HB3	1.49	0.51
27:Z1:274:LYS:O	27:Z1:274:LYS:CG	2.59	0.51
27:Z2:119:GLU:HB2	27:Z2:120:GLU:N	2.26	0.51
27:Z2:305:ILE:HD13	27:Z2:365:THR:HG21	1.93	0.51
29:b1:68:TYR:CD2	29:b2:46:LYS:CE	2.85	0.51
1:A2:1274:ASP:CA	1:A1:727:ASN:ND2	2.70	0.51
1:A4:442:ARG:HG3	4:D3:1024:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D2:1014:LEU:HB2	4:D2:1016:LEU:HD13	1.93	0.51
4:D3:972:TRP:CZ2	4:D3:980:ARG:HD3	2.45	0.51
4:D4:569:GLU:HA	4:D4:572:GLN:HG2	1.93	0.51
4:D4:1014:LEU:HB2	4:D4:1016:LEU:HD13	1.93	0.51
9:I1:401:GLN:N	9:I1:401:GLN:OE1	2.43	0.51
9:I1:917:TYR:HH	13:M1:534:GLN:C	1.97	0.51
9:I1:1051:LYS:CG	14:N1:293:LYS:HZ3	2.24	0.51
9:I2:624:GLU:O	9:I2:627:ASN:ND2	2.40	0.51
9:I2:843:GLU:CD	15:O3:191:ARG:NE	2.69	0.51
9:I2:976:ARG:CD	14:N3:297:ALA:HB2	2.40	0.51
17:Q1:227:ARG:CD	17:Q1:229:PHE:CZ	2.94	0.51
17:Q1:654:VAL:CB	17:Q1:666:LYS:HE2	2.40	0.51
17:Q1:706:LEU:CB	17:Q1:707:PRO:HD3	2.36	0.51
17:Q1:961:SER:HB2	17:Q1:991:LEU:HD22	1.91	0.51
17:Q1:1078:LEU:HB2	17:Q1:1153:ASN:OD1	2.10	0.51
17:Q2:92:MET:HE2	17:Q2:140:LEU:HB3	1.92	0.51
17:Q2:116:ASP:CG	17:Q2:117:THR:H	2.19	0.51
17:Q2:536:GLU:HG2	17:Q2:587:LEU:HD13	1.93	0.51
17:Q2:598:ILE:HG13	17:Q2:632:LYS:HD2	1.93	0.51
17:Q2:870:VAL:C	17:Q2:873:GLN:HG2	2.35	0.51
18:R1:207:SER:HG	20:S1:359:TYR:HH	1.58	0.51
18:R1:435:PHE:HB3	18:R1:448:ILE:CD1	2.40	0.51
18:R1:533:LEU:HD23	18:R1:549:PHE:CG	2.46	0.51
18:R1:704:LEU:HD22	18:R1:704:LEU:H	1.74	0.51
19:R2:615:THR:HG23	19:R2:616:LEU:N	2.25	0.51
20:S2:520:ARG:HH21	20:S2:542:GLN:HE21	1.58	0.51
21:T1:138:PRO:HB2	21:T1:140:ILE:HD11	1.93	0.51
22:U1:308:TRP:CD1	23:V1:66:PRO:HA	2.46	0.51
23:V1:152:LEU:O	23:V1:156:GLU:HG3	2.10	0.51
26:Y1:1387:LYS:NZ	26:Y2:1390:LEU:HD13	2.25	0.51
26:Y2:1305:GLN:CD	27:Z2:599:MET:HG3	2.34	0.51
26:Y2:1399:ILE:CD1	27:Z2:697:CYS:HB3	2.38	0.51
27:Z1:52:SER:O	27:Z1:53:LEU:HD23	2.11	0.51
27:Z1:280:LYS:HE2	27:Z1:338:ASP:C	2.36	0.51
27:Z2:135:LYS:NZ	27:Z2:217:LEU:O	2.44	0.51
27:Z2:143:VAL:HG21	27:Z2:211:PHE:CZ	2.46	0.51
27:Z2:180:ASN:O	27:Z2:198:ASN:HB3	2.11	0.51
27:Z2:342:TYR:CD2	27:Z2:342:TYR:C	2.87	0.51
1:A2:1201:ARG:NE	1:A1:647:GLU:HB3	1.93	0.51
1:A2:1226:LEU:H	1:A1:644:ALA:N	2.09	0.51
1:A2:1277:TRP:HD1	1:A1:642:ARG:HH12	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:569:GLU:HA	4:D1:572:GLN:HG2	1.93	0.51
4:D1:972:TRP:CZ2	4:D1:980:ARG:HD3	2.45	0.51
4:D1:1016:LEU:HD11	4:D1:1087:LEU:HD11	1.93	0.51
4:D2:972:TRP:CZ2	4:D2:980:ARG:HD3	2.45	0.51
4:D3:1032:PHE:N	4:D3:1033:PRO:HD2	2.25	0.51
6:F1:1528:ALA:O	1:A1:1099:GLN:CD	2.54	0.51
7:G1:251:TYR:CE2	15:O2:244:GLU:HB3	2.42	0.51
9:I2:888:GLU:CB	13:M3:591:ASP:O	2.59	0.51
9:I2:917:TYR:HE1	15:O3:187:ASN:C	2.18	0.51
9:I2:928:LEU:CD1	15:O3:180:ASP:H	1.93	0.51
9:I2:928:LEU:HB3	15:O3:179:LEU:CD2	2.20	0.51
9:I2:1100:ILE:C	15:O3:272:SER:HB2	2.36	0.51
9:I2:1168:ALA:HB3	15:O3:270:THR:N	2.09	0.51
17:Q1:76:TYR:O	17:Q1:77:SER:HB2	2.10	0.51
17:Q1:285:ILE:HD12	17:Q1:285:ILE:N	2.26	0.51
17:Q1:636:ILE:O	17:Q1:637:ASN:HB2	2.09	0.51
17:Q1:749:LEU:HG	17:Q1:807:PHE:CD1	2.46	0.51
17:Q1:959:ASN:HA	17:Q1:962:ASN:OD1	2.11	0.51
17:Q1:962:ASN:HA	17:Q1:965:LYS:CE	2.41	0.51
17:Q1:1097:GLU:HG3	17:Q1:1098:THR:N	2.26	0.51
17:Q2:706:LEU:CB	17:Q2:707:PRO:HD3	2.36	0.51
17:Q2:887:TRP:O	17:Q2:890:GLN:HB2	2.10	0.51
17:Q2:1057:LEU:CD1	17:Q2:1061:ILE:HD12	2.40	0.51
18:R1:254:ALA:O	20:S1:315:LYS:NZ	2.40	0.51
18:R1:713:GLU:O	18:R1:717:LEU:HG	2.11	0.51
19:R2:621:GLN:CB	19:R2:670:LYS:HE2	2.41	0.51
19:R2:711:LEU:CA	19:R2:714:TYR:CE2	2.94	0.51
20:S1:524:ASN:O	20:S1:528:LEU:HG	2.10	0.51
20:S2:186:PHE:CD1	20:S2:487:LEU:HD11	2.46	0.51
21:T1:62:ALA:HB2	21:T1:107:TRP:CE2	2.46	0.51
21:T2:259:ARG:HB2	21:T2:272:SER:HB2	1.93	0.51
23:V2:156:GLU:HG2	23:V2:179:LEU:CD2	2.41	0.51
25:X1:777:ASN:O	25:X1:778:LYS:HD2	2.11	0.51
26:Y1:1277:LYS:CE	27:Z1:570:ILE:CB	2.84	0.51
26:Y1:1405:GLN:HA	26:Y1:1408:ARG:HD2	1.93	0.51
26:Y2:1284:THR:OG1	27:Z2:578:ARG:HG3	2.11	0.51
27:Z1:164:ILE:HD11	27:Z1:277:ARG:NH1	2.26	0.51
27:Z1:371:GLY:O	27:Z1:386:PHE:CE1	2.64	0.51
27:Z2:209:TYR:CE1	27:Z2:335:MET:HA	2.26	0.51
27:Z2:288:ASN:O	27:Z2:289:PRO:O	2.25	0.51
27:Z2:611:GLN:HA	27:Z2:612:ILE:N	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1201:ARG:HA	1:A4:647:GLU:OE2	2.11	0.51
1:A4:929:ASN:HD22	4:D3:468:LYS:HE3	0.68	0.51
4:D2:692:ILE:HD13	5:E2:77:PHE:CE2	2.45	0.51
6:F2:1392:LEU:N	6:F2:1393:PRO:HD2	2.26	0.51
6:F2:1832:ASN:N	6:F2:1835:GLU:OE2	2.44	0.51
7:G1:255:LEU:C	15:O2:245:GLU:HB2	2.29	0.51
7:G2:253:SER:HB2	15:O4:253:LEU:N	2.26	0.51
7:G2:257:THR:HG23	7:G2:257:THR:O	2.10	0.51
9:I1:702:GLN:OE1	9:I1:702:GLN:N	2.41	0.51
9:I1:767:ASP:CG	13:M1:546:ARG:HH11	2.19	0.51
9:I1:912:VAL:C	13:M1:541:LEU:HD22	2.33	0.51
9:I1:1034:ASP:CB	16:P1:147:LEU:HD23	2.40	0.51
9:I2:911:PRO:CG	15:O3:197:ARG:CG	2.81	0.51
9:I2:921:GLU:OE1	16:P3:157:GLU:OE1	2.29	0.51
9:I2:1025:LEU:C	13:M3:613:ASP:HB2	2.20	0.51
9:I2:1102:GLN:CG	15:O3:274:GLY:N	2.57	0.51
9:I2:1256:TYR:O	15:O3:256:TYR:CD1	2.63	0.51
13:M3:605:THR:O	15:O3:261:LYS:NZ	2.43	0.51
15:O2:81:LEU:O	15:O2:85:LYS:HG2	2.10	0.51
17:Q1:532:LYS:HD2	17:Q1:533:LEU:N	2.26	0.51
17:Q1:536:GLU:HG2	17:Q1:587:LEU:HD13	1.93	0.51
17:Q1:598:ILE:HG13	17:Q1:632:LYS:HD2	1.93	0.51
17:Q1:617:THR:HG23	17:Q1:618:LEU:N	2.25	0.51
17:Q1:634:VAL:HG13	17:Q1:635:VAL:N	2.26	0.51
17:Q1:873:GLN:O	17:Q1:877:GLU:HG3	2.11	0.51
17:Q1:896:TYR:CD2	17:Q1:933:LEU:HD12	2.46	0.51
17:Q1:1057:LEU:CD1	17:Q1:1061:ILE:HD12	2.41	0.51
17:Q2:165:ILE:CD1	17:Q2:174:TYR:CD1	2.94	0.51
17:Q2:220:VAL:HG23	17:Q2:220:VAL:O	2.10	0.51
17:Q2:316:ILE:HG13	17:Q2:331:LEU:HD21	1.93	0.51
17:Q2:749:LEU:CD1	17:Q2:807:PHE:CE1	2.94	0.51
17:Q2:929:LEU:CD2	19:R2:691:THR:HA	2.41	0.51
18:R1:591:ILE:HG23	18:R1:592:LYS:N	2.25	0.51
18:R1:667:LEU:HD22	18:R1:670:LYS:HE3	1.93	0.51
20:S1:526:HIS:C	20:S1:528:LEU:N	2.68	0.51
22:U1:248:LYS:CD	25:X1:805:ARG:C	2.69	0.51
24:W2:258:ASP:OD1	24:W2:260:VAL:HG22	2.11	0.51
25:X2:714:PHE:HE2	26:Y2:1316:GLU:HB2	1.71	0.51
27:Z1:90:VAL:HG11	27:Z1:156:ILE:HD13	1.92	0.51
27:Z1:124:LYS:CE	27:Z1:147:GLU:OE1	2.59	0.51
27:Z1:403:ASN:CA	27:Z2:262:ASN:ND2	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z2:101:GLU:O	27:Z2:102:ASP:C	2.54	0.51
27:Z2:136:SER:O	27:Z2:217:LEU:HD12	2.02	0.51
27:Z2:137:TYR:CA	27:Z2:269:LYS:CD	2.84	0.51
27:Z2:324:LEU:N	27:Z2:354:VAL:O	2.32	0.51
27:Z2:328:PHE:HB3	27:Z2:351:ILE:HD11	1.92	0.51
27:Z2:371:GLY:O	27:Z2:386:PHE:CE1	2.64	0.51
27:Z2:522:GLU:HG2	27:Z2:525:LEU:H	1.76	0.51
1:A3:1327:VAL:HB	4:D3:873:GLN:N	2.26	0.50
9:I1:754:ARG:NH2	13:M1:552:TYR:HE2	2.07	0.50
9:I1:1013:GLU:OE1	9:I1:1013:GLU:N	2.41	0.50
9:I2:888:GLU:OE2	13:M3:597:LYS:CA	2.54	0.50
9:I2:904:GLU:O	13:M3:577:LEU:HD11	2.05	0.50
9:I2:1099:ARG:O	13:M3:611:LYS:CE	2.59	0.50
9:I2:1301:ASN:O	15:O3:263:GLN:NE2	2.44	0.50
13:M1:494:GLU:OE2	13:M1:497:ARG:NH2	2.42	0.50
15:O1:81:LEU:O	15:O1:85:LYS:HG2	2.10	0.50
17:Q1:61:PHE:CE1	17:Q1:71:THR:CG2	2.94	0.50
17:Q1:116:ASP:CG	17:Q1:117:THR:H	2.18	0.50
17:Q1:136:PRO:HB2	17:Q1:166:ILE:HG23	1.92	0.50
17:Q1:361:TYR:HE2	17:Q1:387:MET:HG2	1.75	0.50
17:Q1:382:ARG:CZ	17:Q1:508:ASN:O	2.59	0.50
17:Q1:463:LYS:O	17:Q1:478:PHE:HD1	1.94	0.50
17:Q1:509:ALA:CB	17:Q1:570:PHE:CD1	2.94	0.50
17:Q1:520:ILE:O	17:Q1:523:ASP:HB3	2.11	0.50
17:Q1:549:MET:CE	17:Q1:629:LEU:H	2.25	0.50
17:Q1:584:LYS:HB3	17:Q1:586:ASP:CB	2.38	0.50
17:Q1:725:PHE:CD1	17:Q1:744:LYS:CG	2.94	0.50
17:Q1:1011:ASP:OD2	17:Q1:1013:GLU:HG3	2.12	0.50
17:Q2:196:LEU:HD13	17:Q2:197:GLU:C	2.36	0.50
17:Q2:532:LYS:HD2	17:Q2:533:LEU:N	2.26	0.50
17:Q2:584:LYS:HD3	17:Q2:709:PHE:CZ	2.46	0.50
17:Q2:634:VAL:HG13	17:Q2:635:VAL:N	2.26	0.50
17:Q2:962:ASN:HA	17:Q2:965:LYS:CE	2.41	0.50
17:Q2:989:GLU:O	17:Q2:992:LYS:HG2	2.12	0.50
17:Q2:1021:LEU:HD22	17:Q2:1025:ASP:OD2	2.11	0.50
18:R1:406:GLU:OE1	18:R1:447:PHE:CG	2.64	0.50
18:R1:531:ILE:CG2	18:R1:580:PHE:CE1	2.94	0.50
18:R1:543:VAL:HG12	18:R1:594:ILE:HD13	1.92	0.50
18:R1:674:ALA:HB3	18:R1:676:LYS:HG2	1.92	0.50
20:S2:153:LYS:HA	21:T2:261:SER:CB	2.40	0.50
20:S2:374:LYS:O	20:S2:377:GLU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:T2:62:ALA:HB2	21:T2:107:TRP:CE2	2.46	0.50
22:U1:242:ILE:O	27:Z1:653:GLN:O	2.30	0.50
25:X1:665:TRP:HZ2	27:Z1:560:LEU:CG	2.23	0.50
25:X1:790:ASN:OD1	27:Z1:669:THR:C	2.54	0.50
25:X2:778:LYS:CE	25:X2:794:ILE:HG13	2.33	0.50
26:Y1:1211:LEU:N	26:Y1:1211:LEU:CG	2.72	0.50
26:Y1:1284:THR:OG1	27:Z1:578:ARG:HG3	2.11	0.50
26:Y2:1122:ILE:CD1	29:b2:65:PHE:HE2	2.23	0.50
26:Y2:1369:PHE:CZ	27:Z2:683:LEU:CD1	2.94	0.50
26:Y2:1405:GLN:HA	26:Y2:1408:ARG:HD2	1.94	0.50
27:Z1:124:LYS:HE3	27:Z1:125:SER:HA	1.87	0.50
27:Z1:182:ILE:CD1	27:Z1:198:ASN:CG	2.84	0.50
27:Z1:582:GLU:OE1	27:Z1:582:GLU:CA	2.54	0.50
27:Z2:52:SER:O	27:Z2:53:LEU:HD23	2.11	0.50
27:Z2:249:VAL:HA	27:Z2:252:GLN:HG2	1.92	0.50
27:Z2:371:GLY:O	27:Z2:386:PHE:CD1	2.63	0.50
27:Z2:380:ILE:HG21	27:Z2:382:GLN:HE21	1.74	0.50
1:A1:777:LEU:HD13	1:A1:822:ILE:HD11	1.89	0.50
1:A1:785:ILE:HD11	1:A1:825:ARG:CG	2.38	0.50
1:A3:871:ASN:CG	4:D1:515:ASN:CB	2.83	0.50
4:D3:1057:GLN:CG	4:D3:1080:LEU:HD13	2.41	0.50
6:F1:1267:ARG:NH2	15:O2:257:ALA:HB3	2.26	0.50
9:I1:1254:VAL:HG22	15:O1:259:ASP:N	2.25	0.50
9:I1:1359:ASP:O	15:O1:266:GLN:CD	2.53	0.50
9:I1:1543:LEU:CD2	10:J2:300:ILE:CG2	2.63	0.50
9:I2:925:LEU:O	15:O3:183:VAL:N	2.44	0.50
17:Q1:72:LEU:HD12	17:Q1:110:ILE:HG21	1.92	0.50
17:Q1:228:ILE:HG13	17:Q1:228:ILE:O	2.10	0.50
17:Q1:404:MET:HG3	17:Q1:405:GLU:N	2.13	0.50
17:Q1:671:ASN:HA	17:Q1:743:LEU:CD1	2.40	0.50
17:Q1:699:MET:HB3	17:Q1:709:PHE:HE2	1.76	0.50
17:Q1:759:TRP:CZ3	17:Q1:775:ILE:HG23	2.46	0.50
17:Q2:242:LEU:HD23	17:Q2:242:LEU:N	2.20	0.50
17:Q2:395:PHE:CB	17:Q2:421:PRO:HG3	2.42	0.50
17:Q2:516:LEU:CD1	17:Q2:573:LYS:HZ1	2.24	0.50
17:Q2:746:VAL:HG22	17:Q2:750:TYR:CE2	2.41	0.50
17:Q2:1097:GLU:HG3	17:Q2:1098:THR:N	2.25	0.50
18:R1:533:LEU:CG	18:R1:537:PHE:CE2	2.94	0.50
18:R1:615:THR:HG23	18:R1:616:LEU:N	2.25	0.50
18:R1:711:LEU:CA	18:R1:714:TYR:CE2	2.94	0.50
19:R2:668:HIS:O	19:R2:672:VAL:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:281:ILE:HB	20:S1:301:LEU:HD21	1.93	0.50
20:S1:435:LEU:O	20:S1:439:VAL:HG23	2.11	0.50
21:T1:259:ARG:HB2	21:T1:272:SER:HB2	1.93	0.50
21:T2:138:PRO:HB2	21:T2:140:ILE:HD11	1.93	0.50
23:V1:107:TYR:CZ	23:V1:111:LEU:HD11	2.46	0.50
25:X1:814:LEU:CD2	25:X1:817:GLN:OE1	2.52	0.50
25:X2:707:LEU:CD1	26:Y2:1306:ILE:CG1	2.49	0.50
26:Y2:1225:PHE:HE2	27:Z2:539:ILE:HG13	1.67	0.50
27:Z1:328:PHE:HB3	27:Z1:351:ILE:CD1	2.42	0.50
27:Z1:381:ILE:CD1	27:Z1:424:PRO:CG	2.86	0.50
27:Z1:538:ARG:NH1	27:Z2:543:GLN:O	2.44	0.50
27:Z1:544:THR:CA	27:Z2:558:PHE:CD2	2.65	0.50
27:Z2:274:LYS:O	27:Z2:274:LYS:CG	2.59	0.50
1:A2:1272:GLY:HA3	1:A1:645:PHE:HD1	1.77	0.50
1:A2:1275:PRO:HD3	1:A1:727:ASN:CG	2.36	0.50
4:D1:692:ILE:HD13	5:E1:77:PHE:CE2	2.45	0.50
4:D2:1057:GLN:CG	4:D2:1080:LEU:HD13	2.40	0.50
6:F1:143:GLY:O	9:I1:1397:GLY:N	2.45	0.50
9:I1:901:TYR:CD1	13:M1:573:ARG:NH1	2.80	0.50
9:I2:902:GLN:OE1	13:M3:580:LYS:CA	2.19	0.50
10:J2:249:ASP:OD2	14:N3:431:VAL:HG11	2.05	0.50
17:Q1:98:LEU:HB2	17:Q1:107:ILE:HG22	1.93	0.50
17:Q1:165:ILE:CD1	17:Q1:174:TYR:CD1	2.94	0.50
17:Q1:520:ILE:HG23	17:Q1:521:SER:N	2.27	0.50
17:Q1:573:LYS:HG3	17:Q1:574:ASN:H	1.76	0.50
17:Q1:1071:PRO:HA	17:Q1:1074:ASN:O	2.11	0.50
17:Q2:509:ALA:CB	17:Q2:570:PHE:CD1	2.94	0.50
17:Q2:631:THR:HG23	17:Q2:631:THR:O	2.10	0.50
17:Q2:671:ASN:HA	17:Q2:743:LEU:CD1	2.41	0.50
17:Q2:1011:ASP:OD2	17:Q2:1013:GLU:HG3	2.12	0.50
18:R1:674:ALA:O	18:R1:675:ALA:HB3	2.12	0.50
19:R2:527:VAL:CG1	19:R2:557:GLU:HG3	2.41	0.50
22:U1:185:VAL:N	27:Z1:664:ARG:HH22	1.95	0.50
22:U2:308:TRP:CD1	23:V2:66:PRO:HA	2.46	0.50
24:W1:190:ASP:OD2	24:W1:191:GLY:N	2.44	0.50
25:X2:665:TRP:HH2	27:Z2:556:GLN:CA	2.23	0.50
25:X2:788:ASP:O	25:X2:792:GLN:NE2	2.45	0.50
25:X2:800:HIS:CD2	27:Z2:694:ILE:CD1	2.92	0.50
26:Y1:1409:LEU:C	27:Z1:711:LYS:HZ3	2.17	0.50
26:Y2:1123:GLN:HG3	29:b1:39:ARG:CD	2.41	0.50
27:Z1:179:VAL:HG23	27:Z1:281:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:305:ILE:CG2	27:Z1:386:PHE:CZ	2.89	0.50
27:Z1:533:LYS:O	27:Z1:537:GLN:HG2	2.12	0.50
27:Z2:297:TYR:CZ	27:Z2:321:ASP:CG	2.74	0.50
28:a1:1001:GLY:HA2	28:a1:1056:PHE:CE2	2.47	0.50
28:a2:995:VAL:HG21	28:a2:1024:ILE:HD12	1.93	0.50
1:A1:862:LEU:CD1	1:A1:904:GLN:HB3	2.41	0.50
1:A1:1277:TRP:N	1:A1:1278:PRO:CD	2.75	0.50
1:A2:1230:TYR:CE2	1:A1:590:SER:C	2.74	0.50
1:A3:1083:SER:OG	4:D3:1096:TYR:CD2	2.51	0.50
1:A3:1277:TRP:N	1:A3:1278:PRO:CD	2.75	0.50
4:D3:569:GLU:HA	4:D3:572:GLN:HG2	1.93	0.50
7:G1:254:ASN:HB2	14:N2:400:LEU:HD12	1.94	0.50
9:I1:961:ARG:C	15:O1:186:PHE:H	2.20	0.50
9:I2:914:ASN:CA	15:O3:194:GLU:CA	2.52	0.50
17:Q1:316:ILE:HG13	17:Q1:331:LEU:HD21	1.93	0.50
17:Q1:395:PHE:CB	17:Q1:421:PRO:HG3	2.42	0.50
17:Q1:461:ASP:CG	17:Q1:462:SER:H	2.19	0.50
17:Q1:545:TYR:CD2	17:Q1:546:ILE:CD1	2.94	0.50
17:Q1:564:PHE:CZ	17:Q1:588:ILE:CD1	2.94	0.50
17:Q1:646:PHE:CE2	17:Q1:669:VAL:CB	2.94	0.50
17:Q1:805:ALA:HB2	17:Q1:815:VAL:HG11	1.93	0.50
17:Q2:178:ILE:HG23	17:Q2:179:ASN:N	2.26	0.50
17:Q2:210:LEU:HD12	17:Q2:270:LEU:CG	2.41	0.50
17:Q2:520:ILE:HG23	17:Q2:521:SER:N	2.27	0.50
17:Q2:549:MET:CE	17:Q2:629:LEU:H	2.24	0.50
17:Q2:647:LYS:HA	17:Q2:647:LYS:HZ1	1.76	0.50
17:Q2:805:ALA:HB2	17:Q2:815:VAL:HG11	1.93	0.50
17:Q2:887:TRP:HB2	17:Q2:903:LEU:HD21	1.92	0.50
18:R1:50:ALA:HB1	18:R1:69:GLU:HG3	1.93	0.50
18:R1:690:PHE:CZ	18:R1:694:VAL:CG2	2.95	0.50
19:R2:550:MET:CB	19:R2:587:TYR:CE2	2.95	0.50
19:R2:555:ILE:HG23	19:R2:556:GLY:N	2.27	0.50
22:U1:206:ALA:C	27:Z1:665:ILE:N	2.66	0.50
22:U1:293:GLN:CG	26:Y1:1371:VAL:CG2	2.81	0.50
22:U2:218:ILE:HG22	22:U2:233:THR:HG22	1.94	0.50
23:V1:218:GLU:HA	23:V1:220:ASP:N	2.27	0.50
24:W2:288:VAL:HG13	24:W2:336:LEU:HD22	1.93	0.50
24:W2:466:TYR:HB3	24:W2:470:ILE:HB	1.92	0.50
25:X1:789:GLU:HG3	27:Z1:680:TRP:CD1	2.31	0.50
25:X1:802:ASP:CB	26:Y1:1371:VAL:HG13	2.42	0.50
25:X2:747:THR:HG22	25:X2:751:LEU:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1387:LYS:HE2	26:Y2:1361:GLU:CD	2.34	0.50
26:Y2:1336:THR:HB	27:Z1:92:GLU:CD	2.36	0.50
26:Y2:1339:PHE:HE2	27:Z2:630:TRP:CG	2.14	0.50
27:Z1:233:MET:HA	27:Z1:236:SER:OG	2.12	0.50
27:Z1:389:TRP:HZ3	27:Z1:393:LEU:CD1	2.12	0.50
27:Z1:396:CYS:O	27:Z1:400:SER:N	2.40	0.50
27:Z2:23:PRO:CB	27:Z2:24:ARG:H	2.22	0.50
27:Z2:217:LEU:HD22	27:Z2:269:LYS:CD	1.98	0.50
27:Z2:319:PHE:HD2	27:Z2:323:SER:O	1.93	0.50
28:a1:982:TYR:HB2	28:a1:987:LEU:HD13	1.93	0.50
28:a2:1001:GLY:HA2	28:a2:1056:PHE:CE2	2.47	0.50
29:b1:21:LYS:HG2	29:b1:77:VAL:HG11	1.93	0.50
1:A2:1277:TRP:N	1:A2:1278:PRO:CD	2.75	0.50
1:A2:1331:GLU:CB	4:D1:902:SER:HB2	2.38	0.50
1:A3:1242:THR:HG21	1:A3:1248:ILE:HD11	1.93	0.50
1:A3:1333:ARG:HD2	4:D3:880:ASP:OD1	2.12	0.50
1:A3:1401:VAL:C	4:D3:873:GLN:NE2	2.65	0.50
4:D4:972:TRP:CZ2	4:D4:980:ARG:HD3	2.45	0.50
6:F1:161:ALA:O	9:I1:1335:LYS:HB2	2.12	0.50
7:G1:247:ASP:N	13:M2:594:LYS:HG2	2.25	0.50
7:G1:251:TYR:O	15:O2:246:LEU:HB3	2.12	0.50
9:I1:920:PHE:N	15:O1:191:ARG:HH22	2.07	0.50
9:I1:1254:VAL:CG2	15:O1:259:ASP:CA	2.90	0.50
9:I2:959:SER:O	16:P3:151:LYS:CD	2.59	0.50
9:I2:1046:HIS:ND1	14:N3:289:PHE:CZ	2.80	0.50
17:Q1:165:ILE:HD13	17:Q1:174:TYR:HD1	1.77	0.50
17:Q1:384:ASN:OD1	17:Q1:508:ASN:CB	2.60	0.50
17:Q1:385:THR:CG2	17:Q1:507:ILE:HG21	2.36	0.50
17:Q1:629:LEU:HB3	17:Q1:631:THR:N	2.26	0.50
17:Q2:361:TYR:HE2	17:Q2:387:MET:HG2	1.75	0.50
17:Q2:617:THR:HG23	17:Q2:618:LEU:N	2.26	0.50
17:Q2:645:ILE:HD12	17:Q2:645:ILE:O	2.11	0.50
17:Q2:824:ASN:N	17:Q2:827:THR:HB	2.27	0.50
17:Q2:1062:VAL:CG1	17:Q2:1140:VAL:HG21	2.41	0.50
18:R1:508:MET:O	18:R1:512:TYR:HD2	1.93	0.50
20:S1:186:PHE:CD1	20:S1:487:LEU:HD11	2.46	0.50
20:S2:389:THR:O	20:S2:393:GLY:HA3	2.10	0.50
21:T2:117:LEU:HB2	21:T2:153:TRP:HE1	1.75	0.50
22:U1:117:ALA:HB3	22:U1:124:LYS:HB3	1.93	0.50
22:U1:295:GLU:C	27:Z1:657:TYR:C	2.76	0.50
22:U1:296:LEU:CA	27:Z1:657:TYR:CA	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:107:TYR:CZ	23:V2:111:LEU:HD11	2.47	0.50
24:W1:591:MET:HE1	24:W1:630:THR:OG1	2.12	0.50
25:X2:697:LEU:HB2	27:Z2:432:ASN:CG	2.36	0.50
25:X2:769:ILE:HD11	27:Z2:655:LEU:HD13	1.94	0.50
26:Y1:1122:ILE:O	29:b2:39:ARG:CD	2.25	0.50
26:Y1:1345:LEU:CB	26:Y1:1348:LYS:HE2	2.41	0.50
26:Y2:1336:THR:O	26:Y2:1340:ARG:CG	2.58	0.50
27:Z1:189:LYS:C	27:Z1:311:GLN:CG	2.79	0.50
27:Z1:225:LEU:O	27:Z1:229:LYS:HG3	2.12	0.50
27:Z1:249:VAL:HA	27:Z1:252:GLN:HG2	1.92	0.50
27:Z2:90:VAL:HG11	27:Z2:156:ILE:HD13	1.92	0.50
27:Z2:328:PHE:HB3	27:Z2:351:ILE:CD1	2.42	0.50
29:b2:16:ILE:HA	29:b2:74:GLY:O	2.12	0.50
1:A2:862:LEU:CD1	1:A2:904:GLN:HB3	2.41	0.50
1:A3:945:ARG:HH21	9:I2:817:ASP:CB	2.15	0.50
4:D2:1031:ARG:O	4:D2:1034:SER:OG	2.27	0.50
4:D2:1043:VAL:N	4:D2:1044:PRO:CD	2.75	0.50
6:F1:138:ILE:CG2	9:I1:1392:VAL:HG22	2.39	0.50
6:F1:153:LEU:HD23	9:I1:1395:LEU:HD23	1.86	0.50
6:F1:1807:GLU:C	14:N2:411:GLN:NE2	2.68	0.50
6:F2:139:GLN:HB3	9:I2:1340:LEU:HD23	1.87	0.50
7:G1:254:ASN:HD21	15:O2:250:LEU:N	2.08	0.50
9:I1:921:GLU:N	15:O1:190:ARG:NH2	2.57	0.50
9:I1:980:ILE:HD12	15:O1:172:ALA:HA	1.85	0.50
9:I2:1034:ASP:CA	15:O3:284:LYS:HG2	2.41	0.50
9:I2:1035:GLN:CB	16:P3:147:LEU:HB3	2.28	0.50
17:Q1:631:THR:O	17:Q1:631:THR:HG23	2.10	0.50
17:Q2:169:GLY:O	17:Q2:170:SER:HB3	2.12	0.50
17:Q2:227:ARG:CD	17:Q2:229:PHE:CZ	2.94	0.50
17:Q2:531:LEU:HD12	17:Q2:531:LEU:N	2.27	0.50
17:Q2:545:TYR:CD2	17:Q2:546:ILE:CD1	2.94	0.50
17:Q2:567:PHE:O	17:Q2:570:PHE:HB3	2.11	0.50
17:Q2:584:LYS:HD3	17:Q2:709:PHE:CE2	2.46	0.50
17:Q2:684:GLU:C	17:Q2:688:THR:HB	2.37	0.50
17:Q2:699:MET:HB3	17:Q2:709:PHE:HE2	1.76	0.50
17:Q2:749:LEU:HG	17:Q2:807:PHE:CD1	2.46	0.50
17:Q2:836:PHE:CD2	17:Q2:842:GLU:CG	2.95	0.50
17:Q2:873:GLN:O	17:Q2:877:GLU:HG3	2.11	0.50
17:Q2:959:ASN:HA	17:Q2:962:ASN:OD1	2.11	0.50
17:Q2:1016:PHE:CE2	17:Q2:1020:ARG:CG	2.95	0.50
18:R1:354:SER:O	18:R1:358:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:580:PHE:CE2	18:R1:584:ILE:CD1	2.94	0.50
18:R1:668:HIS:O	18:R1:672:VAL:HG23	2.10	0.50
18:R1:715:LEU:HD23	18:R1:715:LEU:C	2.36	0.50
19:R2:233:THR:HG22	19:R2:234:GLN:O	2.12	0.50
19:R2:528:HIS:O	19:R2:531:ILE:HG12	2.12	0.50
19:R2:533:LEU:HD23	19:R2:549:PHE:CG	2.46	0.50
19:R2:690:PHE:CZ	19:R2:694:VAL:CG2	2.95	0.50
20:S1:526:HIS:C	20:S1:530:ARG:HD2	2.36	0.50
22:U1:288:LEU:HD22	25:X1:796:ILE:HG13	1.92	0.50
23:V1:156:GLU:HG2	23:V1:179:LEU:CD2	2.41	0.50
25:X1:644:TRP:CD1	25:X1:648:LEU:CD1	2.88	0.50
25:X1:658:TYR:CD1	26:Y1:1239:PHE:CE1	3.00	0.50
25:X2:692:LYS:HD3	27:Z2:10:LEU:HB3	1.93	0.50
25:X2:819:ASN:OD1	25:X2:822:LYS:HD2	2.12	0.50
26:Y1:1123:GLN:CA	29:b2:39:ARG:HD2	2.41	0.50
26:Y2:1280:GLN:HB3	27:Z2:578:ARG:NH2	2.27	0.50
26:Y2:1317:TYR:HH	27:Z1:48:VAL:CG2	1.79	0.50
27:Z1:12:ILE:CD1	27:Z1:44:ARG:HB3	2.35	0.50
27:Z1:79:LEU:HD12	27:Z1:139:ASP:CB	2.42	0.50
27:Z1:179:VAL:HG13	27:Z1:198:ASN:ND2	2.26	0.50
27:Z1:342:TYR:O	27:Z1:342:TYR:CD2	2.64	0.50
27:Z1:543:GLN:O	27:Z2:554:HIS:CE1	2.46	0.50
27:Z2:416:ASP:CG	27:Z2:569:LYS:NZ	2.69	0.50
27:Z2:522:GLU:CG	27:Z2:523:ASN:C	2.83	0.50
27:Z2:533:LYS:O	27:Z2:537:GLN:HG2	2.12	0.50
29:b1:68:TYR:HD2	29:b2:46:LYS:CE	2.15	0.50
29:b2:15:ASP:O	29:b2:74:GLY:C	2.55	0.50
1:A4:1051:THR:CB	4:D4:1096:TYR:CD2	2.93	0.50
6:F1:153:LEU:O	9:I1:1395:LEU:HD11	2.07	0.50
6:F1:158:PRO:CB	9:I1:1339:LEU:HB2	2.36	0.50
7:G2:249:ASP:HB3	15:O4:254:ARG:NE	2.13	0.50
9:I1:980:ILE:HG13	15:O1:172:ALA:CA	2.38	0.50
9:I1:1315:GLN:CG	15:O1:269:ILE:N	2.68	0.50
9:I2:1103:LEU:CD2	15:O3:275:LEU:HD22	2.32	0.50
9:I2:1106:LYS:CE	14:N3:430:ARG:NH1	2.56	0.50
17:Q1:414:THR:O	17:Q1:414:THR:HG23	2.12	0.50
17:Q1:516:LEU:HB2	17:Q1:517:PRO:CD	2.39	0.50
17:Q1:749:LEU:CD1	17:Q1:807:PHE:CE1	2.95	0.50
17:Q1:870:VAL:C	17:Q1:873:GLN:HG2	2.35	0.50
17:Q2:165:ILE:HD13	17:Q2:174:TYR:HD1	1.77	0.50
17:Q2:538:ILE:HG23	17:Q2:539:PHE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:705:LYS:HE3	17:Q2:710:ILE:HD13	1.94	0.50
17:Q2:759:TRP:CZ3	17:Q2:775:ILE:HG23	2.46	0.50
17:Q2:922:LEU:HD13	19:R2:689:ALA:HA	1.94	0.50
17:Q2:1057:LEU:HD13	17:Q2:1057:LEU:O	2.12	0.50
17:Q2:1071:PRO:HA	17:Q2:1074:ASN:O	2.11	0.50
17:Q2:1122:THR:HG23	17:Q2:1123:LEU:HD12	1.94	0.50
18:R1:550:MET:CB	18:R1:587:TYR:CE2	2.95	0.50
19:R2:550:MET:HB2	19:R2:587:TYR:HE2	1.76	0.50
19:R2:674:ALA:O	19:R2:675:ALA:HB3	2.11	0.50
20:S1:389:THR:O	20:S1:393:GLY:HA3	2.10	0.50
22:U1:289:GLN:HE22	25:X1:794:ILE:CG1	2.11	0.50
24:W1:288:VAL:HG13	24:W1:336:LEU:HD22	1.94	0.50
25:X1:655:PHE:HE2	27:Z1:546:GLY:N	2.10	0.50
25:X1:799:SER:HB3	26:Y1:1372:LYS:CB	2.41	0.50
25:X2:655:PHE:CZ	27:Z2:545:LEU:CA	2.93	0.50
25:X2:762:LEU:CD1	26:Y2:1352:VAL:HG13	2.42	0.50
26:Y1:1386:ALA:HB3	26:Y2:1360:GLU:CA	2.42	0.50
27:Z1:149:ASP:CB	27:Z1:182:ILE:HG22	2.42	0.50
27:Z1:342:TYR:CD2	27:Z1:342:TYR:C	2.87	0.50
27:Z2:149:ASP:CB	27:Z2:182:ILE:HG22	2.42	0.50
27:Z2:208:PHE:CD1	27:Z2:211:PHE:N	2.79	0.50
29:b2:38:GLU:HG2	29:b2:61:VAL:HG12	1.92	0.50
1:A2:1230:TYR:CE1	1:A1:590:SER:CA	2.59	0.50
1:A3:1222:ALA:O	1:A4:648:TYR:CZ	2.52	0.50
1:A3:1222:ALA:CB	1:A4:598:VAL:N	2.58	0.50
4:D3:1016:LEU:HD11	4:D3:1087:LEU:HD11	1.93	0.50
4:D3:1043:VAL:N	4:D3:1044:PRO:CD	2.75	0.50
6:F1:272:GLU:OE1	9:I1:1210:ILE:HG22	2.12	0.50
9:I1:904:GLU:O	13:M1:572:GLU:OE2	2.22	0.50
9:I1:1034:ASP:OD1	9:I1:1035:GLN:N	2.44	0.50
9:I1:1606:GLU:O	9:I2:1669:ARG:NH2	2.34	0.50
9:I2:892:HIS:ND1	13:M3:588:MET:O	2.33	0.50
9:I2:1032:THR:N	13:M3:618:GLN:CA	2.56	0.50
17:Q1:69:VAL:HG23	17:Q1:69:VAL:O	2.10	0.50
17:Q1:181:ILE:C	17:Q1:183:ASN:H	2.20	0.50
17:Q1:210:LEU:HD12	17:Q1:270:LEU:CG	2.41	0.50
17:Q1:678:TYR:CZ	17:Q1:682:LEU:HD11	2.47	0.50
17:Q1:684:GLU:C	17:Q1:688:THR:HB	2.36	0.50
17:Q1:897:ALA:HB2	17:Q1:934:VAL:HG21	1.94	0.50
17:Q1:1021:LEU:HD22	17:Q1:1025:ASP:OD2	2.11	0.50
17:Q2:61:PHE:CE1	17:Q2:71:THR:CG2	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:181:ILE:C	17:Q2:183:ASN:H	2.20	0.50
17:Q2:359:THR:OG1	17:Q2:387:MET:HB2	2.12	0.50
17:Q2:564:PHE:CZ	17:Q2:588:ILE:CD1	2.94	0.50
17:Q2:887:TRP:HB2	17:Q2:903:LEU:CD2	2.42	0.50
17:Q2:888:ILE:HD13	17:Q2:888:ILE:C	2.37	0.50
18:R1:511:ILE:HG23	18:R1:512:TYR:N	2.24	0.50
18:R1:550:MET:HB2	18:R1:587:TYR:HE2	1.77	0.50
18:R1:580:PHE:CE2	18:R1:584:ILE:CG1	2.95	0.50
19:R2:531:ILE:CG2	19:R2:580:PHE:CE1	2.94	0.50
19:R2:650:GLU:CA	19:R2:653:TYR:CE2	2.95	0.50
23:V2:228:PHE:HE2	23:V2:267:ARG:HB3	1.77	0.50
24:W1:53:GLY:HA2	24:W1:73:SER:HA	1.94	0.50
25:X1:747:THR:HG22	25:X1:751:LEU:CD1	2.42	0.50
26:Y2:1317:TYR:CE1	27:Z1:49:LEU:CB	2.83	0.50
26:Y2:1430:ASP:HB2	26:Y2:1434:PHE:HZ	0.51	0.50
27:Z1:26:ILE:CG2	27:Z1:26:ILE:O	2.60	0.50
27:Z1:74:SER:OG	27:Z1:139:ASP:OD1	2.26	0.50
27:Z1:305:ILE:HD13	27:Z1:365:THR:HG21	1.93	0.50
27:Z1:428:TYR:CD2	27:Z1:428:TYR:C	2.88	0.50
27:Z1:531:ILE:CD1	27:Z2:541:LYS:HG2	2.39	0.50
27:Z1:537:GLN:O	27:Z2:551:ASN:CB	2.60	0.50
27:Z2:57:LEU:O	27:Z2:57:LEU:CG	2.39	0.50
27:Z2:280:LYS:HE2	27:Z2:338:ASP:C	2.36	0.50
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CZ	2.47	0.50
27:Z2:312:ASN:ND2	27:Z2:397:ILE:HD12	2.20	0.50
1:A2:1204:TRP:CZ3	1:A1:607:ARG:NH2	2.80	0.50
1:A2:1220:PRO:HB3	1:A1:595:GLU:HG2	1.93	0.50
1:A2:1331:GLU:CB	4:D1:899:THR:C	2.64	0.50
1:A3:777:LEU:HD13	1:A3:822:ILE:HD11	1.90	0.50
4:D3:1014:LEU:HB2	4:D3:1016:LEU:HD13	1.93	0.50
4:D3:1031:ARG:O	4:D3:1034:SER:OG	2.27	0.50
6:F1:990:GLN:CG	9:I1:1394:ASN:HD22	2.21	0.50
6:F1:1392:LEU:N	6:F1:1393:PRO:HD2	2.27	0.50
9:I2:892:HIS:O	13:M3:588:MET:HG3	2.12	0.50
9:I2:906:GLY:C	13:M3:573:ARG:HH11	2.19	0.50
9:I2:963:LEU:N	16:P3:151:LYS:HD3	2.16	0.50
17:Q1:62:THR:HB	17:Q1:69:VAL:HG22	1.94	0.50
17:Q1:793:CYS:HA	17:Q1:796:ASN:ND2	2.27	0.50
17:Q1:888:ILE:HD13	17:Q1:888:ILE:C	2.37	0.50
17:Q1:928:LYS:CE	18:R1:695:ALA:CB	2.76	0.50
17:Q2:136:PRO:HB2	17:Q2:166:ILE:HG23	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:165:ILE:CD1	17:Q2:174:TYR:HD1	2.25	0.50
17:Q2:247:LEU:N	17:Q2:247:LEU:HD12	2.26	0.50
17:Q2:285:ILE:HD12	17:Q2:285:ILE:N	2.26	0.50
17:Q2:827:THR:HA	17:Q2:830:SER:OG	2.11	0.50
17:Q2:847:LEU:CA	17:Q2:876:GLN:HE22	2.25	0.50
18:R1:442:LEU:CD1	18:R1:470:LEU:HD21	2.42	0.50
18:R1:677:LEU:N	18:R1:677:LEU:HD22	2.27	0.50
19:R2:354:SER:O	19:R2:358:VAL:HG23	2.11	0.50
23:V2:218:GLU:HA	23:V2:220:ASP:N	2.27	0.50
24:W1:258:ASP:OD1	24:W1:260:VAL:HG22	2.11	0.50
24:W2:190:ASP:OD2	24:W2:191:GLY:N	2.44	0.50
25:X1:819:ASN:OD1	25:X1:822:LYS:HD2	2.12	0.50
25:X2:695:GLN:NE2	27:Z2:431:TRP:CD1	2.64	0.50
26:Y1:1280:GLN:HB3	27:Z1:578:ARG:NH2	2.27	0.50
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:CD1	2.39	0.50
27:Z1:93:VAL:O	27:Z1:94:PRO:CG	2.53	0.50
27:Z1:208:PHE:CD1	27:Z1:211:PHE:N	2.79	0.50
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CZ	2.47	0.50
27:Z1:324:LEU:N	27:Z1:354:VAL:O	2.32	0.50
27:Z1:387:MET:HG3	27:Z1:387:MET:O	2.11	0.50
27:Z1:395:LYS:HE3	27:Z2:267:PHE:CE1	2.46	0.50
27:Z2:179:VAL:HG23	27:Z2:281:VAL:HG21	1.94	0.50
27:Z2:218:LEU:O	27:Z2:263:TRP:CZ2	2.65	0.50
1:A2:1221:ILE:HG13	1:A1:596:ARG:C	2.35	0.49
1:A2:1242:THR:HG21	1:A2:1248:ILE:HD11	1.93	0.49
1:A4:785:ILE:HD11	1:A4:825:ARG:CG	2.38	0.49
4:D2:1016:LEU:HD11	4:D2:1087:LEU:HD11	1.93	0.49
6:F1:159:ALA:N	9:I1:1338:PHE:C	2.40	0.49
6:F2:1267:ARG:HG3	15:O4:259:ASP:OD1	2.12	0.49
9:I2:892:HIS:HA	13:M3:588:MET:C	2.37	0.49
9:I2:960:SER:OG	16:P3:154:ALA:CB	2.52	0.49
9:I2:1255:HIS:NE2	14:N3:407:ALA:CB	1.74	0.49
17:Q1:268:VAL:CG1	17:Q1:335:ASP:HA	2.42	0.49
17:Q1:546:ILE:HB	17:Q1:548:PRO:HD2	1.94	0.49
17:Q1:584:LYS:HD3	17:Q1:709:PHE:CE2	2.46	0.49
17:Q1:612:ASP:HB2	17:Q1:642:PHE:CE1	2.47	0.49
17:Q1:649:PHE:CE2	17:Q1:653:VAL:CG2	2.95	0.49
17:Q1:887:TRP:HB2	17:Q1:903:LEU:CD2	2.42	0.49
17:Q2:268:VAL:CG1	17:Q2:335:ASP:HA	2.42	0.49
17:Q2:414:THR:O	17:Q2:414:THR:HG23	2.12	0.49
17:Q2:564:PHE:HZ	17:Q2:588:ILE:CD1	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:573:LYS:HG3	17:Q2:574:ASN:H	1.75	0.49
17:Q2:629:LEU:HB3	17:Q2:631:THR:N	2.26	0.49
17:Q2:636:ILE:HG23	17:Q2:637:ASN:ND2	2.27	0.49
17:Q2:678:TYR:CZ	17:Q2:682:LEU:HD11	2.47	0.49
18:R1:650:GLU:CA	18:R1:653:TYR:CE2	2.95	0.49
19:R2:613:ILE:N	19:R2:614:PRO:HD2	2.27	0.49
20:S1:374:LYS:O	20:S1:377:GLU:HB2	2.11	0.49
20:S2:435:LEU:O	20:S2:439:VAL:HG23	2.11	0.49
22:U1:247:GLU:HB2	25:X1:805:ARG:HH12	1.77	0.49
23:V1:228:PHE:HE2	23:V1:267:ARG:HB3	1.77	0.49
23:V1:306:TRP:O	23:V1:310:VAL:HG23	2.11	0.49
23:V2:158:PHE:O	23:V2:162:VAL:HG23	2.12	0.49
23:V2:306:TRP:O	23:V2:310:VAL:HG23	2.12	0.49
26:Y1:1284:THR:OG1	27:Z1:578:ARG:CG	2.60	0.49
26:Y1:1406:VAL:HG21	27:Z1:704:VAL:HG13	1.93	0.49
26:Y1:1434:PHE:CD1	26:Y2:1429:LYS:HD3	2.27	0.49
27:Z1:252:GLN:OE1	27:Z1:334:SER:CA	2.59	0.49
27:Z1:630:TRP:CD1	27:Z1:634:ILE:HD12	2.47	0.49
27:Z2:35:ILE:HD11	27:Z2:429:ILE:HD13	1.72	0.49
27:Z2:182:ILE:CB	27:Z2:198:ASN:OD1	2.59	0.49
27:Z2:314:ILE:HG21	27:Z2:326:LEU:HD21	1.93	0.49
27:Z2:387:MET:O	27:Z2:387:MET:HG3	2.11	0.49
28:a2:982:TYR:HB2	28:a2:987:LEU:HD13	1.93	0.49
29:b1:15:ASP:O	29:b1:74:GLY:CA	2.60	0.49
4:D1:1006:ASP:CG	1:A1:172:PRO:HA	2.37	0.49
4:D4:1043:VAL:N	4:D4:1044:PRO:CD	2.75	0.49
9:I1:980:ILE:H	15:O1:175:SER:C	2.21	0.49
9:I2:656:MET:O	9:I2:659:LYS:NZ	2.44	0.49
9:I2:1030:ARG:HB2	13:M3:612:PRO:HA	1.94	0.49
9:I2:1095:TYR:CE1	15:O3:267:ALA:CA	2.51	0.49
9:I2:1425:TYR:OH	9:I2:1482:ASP:OD2	2.23	0.49
15:O4:142:PHE:HA	15:O4:145:ILE:HG22	1.94	0.49
17:Q1:247:LEU:N	17:Q1:247:LEU:HD12	2.26	0.49
17:Q1:509:ALA:HB1	17:Q1:570:PHE:HD1	1.77	0.49
17:Q1:531:LEU:HD12	17:Q1:531:LEU:N	2.27	0.49
17:Q1:1104:ILE:HG22	17:Q1:1105:ASP:N	2.27	0.49
17:Q2:633:THR:O	17:Q2:636:ILE:HG22	2.12	0.49
17:Q2:678:TYR:CE2	17:Q2:682:LEU:CD1	2.95	0.49
17:Q2:897:ALA:HB2	17:Q2:934:VAL:HG21	1.94	0.49
18:R1:700:LYS:HG3	18:R1:703:LEU:HG	1.94	0.49
19:R2:531:ILE:HD12	19:R2:583:GLU:CD	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:667:LEU:HD22	19:R2:670:LYS:HE3	1.93	0.49
20:S2:526:HIS:C	20:S2:530:ARG:HD2	2.36	0.49
21:T2:57:TRP:HD1	21:T2:102:VAL:O	1.95	0.49
22:U1:67:GLU:OE1	22:U1:119:ALA:HB1	2.12	0.49
25:X1:769:ILE:HD11	27:Z1:655:LEU:HD13	1.94	0.49
25:X2:770:ASN:OD1	25:X2:801:PHE:CE2	2.65	0.49
25:X2:789:GLU:N	25:X2:790:ASN:N	2.60	0.49
26:Y2:1369:PHE:CE2	26:Y2:1385:LEU:HD11	2.34	0.49
27:Z2:225:LEU:O	27:Z2:229:LYS:HG3	2.11	0.49
27:Z2:233:MET:HA	27:Z2:236:SER:OG	2.12	0.49
27:Z2:410:PHE:O	27:Z2:410:PHE:CG	2.33	0.49
29:b1:16:ILE:HG12	29:b1:21:LYS:HE2	1.87	0.49
1:A4:1242:THR:HG21	1:A4:1248:ILE:HD11	1.93	0.49
6:F1:158:PRO:HG3	9:I1:1340:LEU:HB2	1.94	0.49
6:F1:272:GLU:CB	9:I1:1209:THR:N	2.76	0.49
9:I1:1606:GLU:CD	9:I2:1669:ARG:HD3	2.32	0.49
9:I1:1644:ARG:CD	10:J1:275:PHE:CZ	2.96	0.49
9:I2:1083:GLU:OE1	9:I2:1083:GLU:N	2.42	0.49
9:I2:1102:GLN:C	15:O3:275:LEU:HB3	2.37	0.49
9:I2:1105:TRP:HB2	15:O3:276:GLY:O	2.10	0.49
15:O2:142:PHE:HA	15:O2:145:ILE:HG22	1.95	0.49
17:Q1:376:THR:HG22	17:Q1:377:ILE:N	2.27	0.49
17:Q1:538:ILE:HG23	17:Q1:539:PHE:N	2.26	0.49
17:Q1:639:PRO:O	17:Q1:643:PRO:HD2	2.12	0.49
17:Q1:645:ILE:HD12	17:Q1:645:ILE:O	2.11	0.49
17:Q1:658:PHE:HB2	17:Q1:659:PRO:CD	2.42	0.49
17:Q1:824:ASN:N	17:Q1:827:THR:HB	2.27	0.49
17:Q1:934:VAL:HG22	17:Q1:935:GLU:H	1.77	0.49
17:Q1:989:GLU:O	17:Q1:992:LYS:HG2	2.12	0.49
17:Q2:76:TYR:O	17:Q2:77:SER:HB2	2.10	0.49
17:Q2:405:GLU:OE1	17:Q2:405:GLU:HA	2.13	0.49
17:Q2:509:ALA:HB1	17:Q2:570:PHE:HD1	1.77	0.49
17:Q2:612:ASP:HB2	17:Q2:642:PHE:CE1	2.48	0.49
17:Q2:658:PHE:HB2	17:Q2:659:PRO:CD	2.42	0.49
17:Q2:705:LYS:CA	17:Q2:710:ILE:HD12	2.40	0.49
17:Q2:961:SER:HB2	17:Q2:991:LEU:HD22	1.91	0.49
18:R1:233:THR:HG22	18:R1:234:GLN:O	2.12	0.49
19:R2:527:VAL:CG2	19:R2:580:PHE:CG	2.95	0.49
19:R2:580:PHE:CE2	19:R2:584:ILE:CG1	2.95	0.49
19:R2:715:LEU:HD23	19:R2:715:LEU:C	2.36	0.49
20:S1:558:ASN:CB	21:T1:86:ASN:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S2:397:GLU:OE1	20:S2:397:GLU:N	2.40	0.49
25:X1:808:ASP:OD2	26:Y1:1395:LEU:HD11	2.12	0.49
25:X2:726:VAL:HG13	25:X2:727:SER:N	2.25	0.49
25:X2:776:PHE:CE2	26:Y2:1369:PHE:HE1	2.30	0.49
26:Y2:1435:LYS:CE	27:Z2:225:LEU:HD21	2.24	0.49
27:Z1:35:ILE:HG21	27:Z1:46:TYR:CE2	2.34	0.49
27:Z1:158:ASN:HB2	27:Z1:161:GLU:HG3	1.88	0.49
27:Z1:218:LEU:HD12	27:Z1:223:LEU:CD2	2.17	0.49
27:Z1:218:LEU:O	27:Z1:263:TRP:CZ2	2.65	0.49
27:Z1:541:LYS:CA	27:Z2:555:GLU:H	2.13	0.49
27:Z2:709:THR:O	27:Z2:709:THR:CG2	2.59	0.49
29:b1:58:HIS:N	29:b1:89:PHE:O	2.45	0.49
29:b2:46:LYS:HE3	29:b2:59:VAL:N	2.24	0.49
9:I2:894:VAL:CB	13:M3:587:GLU:CG	2.66	0.49
9:I2:1112:SER:HB3	10:J2:241:THR:CB	2.42	0.49
9:I2:1644:ARG:CD	10:J2:275:PHE:CZ	2.96	0.49
15:O3:142:PHE:HA	15:O3:145:ILE:HG22	1.94	0.49
17:Q1:169:GLY:O	17:Q1:170:SER:HB3	2.12	0.49
17:Q1:171:LYS:HD2	17:Q1:171:LYS:C	2.37	0.49
17:Q1:513:ASP:O	17:Q1:517:PRO:HD2	2.12	0.49
17:Q1:633:THR:O	17:Q1:636:ILE:HG22	2.12	0.49
17:Q1:636:ILE:HG23	17:Q1:637:ASN:ND2	2.27	0.49
17:Q1:847:LEU:CA	17:Q1:876:GLN:HE22	2.25	0.49
17:Q1:969:VAL:CG1	17:Q1:1009:LEU:HD22	2.43	0.49
17:Q1:1057:LEU:HD13	17:Q1:1057:LEU:O	2.12	0.49
17:Q2:463:LYS:O	17:Q2:478:PHE:HD1	1.94	0.49
17:Q2:513:ASP:O	17:Q2:517:PRO:HD2	2.12	0.49
17:Q2:564:PHE:HE2	17:Q2:568:LEU:HD11	1.73	0.49
17:Q2:639:PRO:O	17:Q2:643:PRO:HD2	2.12	0.49
18:R1:457:VAL:HG12	18:R1:461:GLN:HG3	1.94	0.49
18:R1:547:GLU:HB2	18:R1:591:ILE:HD11	1.95	0.49
18:R1:634:PHE:O	18:R1:656:ARG:HD3	2.12	0.49
19:R2:379:ILE:HG13	19:R2:385:LEU:HD23	1.94	0.49
19:R2:634:PHE:O	19:R2:656:ARG:HD3	2.12	0.49
22:U1:77:TYR:HA	22:U1:110:SER:HB3	1.95	0.49
22:U1:218:ILE:HG22	22:U1:233:THR:HG22	1.94	0.49
25:X1:648:LEU:CD1	27:Z2:547:VAL:HG12	2.36	0.49
25:X1:742:GLN:CD	25:X1:743:GLN:N	2.69	0.49
26:Y1:1277:LYS:NZ	27:Z1:568:CYS:CA	2.69	0.49
26:Y2:1284:THR:OG1	27:Z2:578:ARG:CG	2.60	0.49
26:Y2:1345:LEU:CB	26:Y2:1348:LYS:HE2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1367:LYS:O	26:Y2:1370:THR:OG1	2.30	0.49
27:Z1:314:ILE:HG21	27:Z1:326:LEU:HD21	1.93	0.49
27:Z1:538:ARG:NH2	27:Z2:543:GLN:C	2.57	0.49
27:Z2:41:ASN:O	27:Z2:59:PHE:CD1	2.65	0.49
27:Z2:125:SER:OG	27:Z2:146:LYS:HD3	2.13	0.49
27:Z2:164:ILE:HD11	27:Z2:277:ARG:NH1	2.26	0.49
27:Z2:252:GLN:OE1	27:Z2:334:SER:CA	2.59	0.49
27:Z2:297:TYR:HB3	27:Z2:320:ASP:HB2	1.95	0.49
1:A2:1201:ARG:CA	1:A1:648:TYR:CZ	2.82	0.49
1:A2:1333:ARG:NH1	4:D1:1037:GLN:HG2	2.28	0.49
1:A3:1084:ARG:CB	4:D3:1095:ARG:NE	2.76	0.49
1:A3:1327:VAL:HA	4:D3:876:SER:CB	2.41	0.49
6:F1:179:GLU:OE2	9:I1:1201:PHE:HD1	1.91	0.49
6:F2:133:GLN:CB	9:I2:1388:GLU:OE1	2.58	0.49
9:I1:389:GLN:N	9:I1:389:GLN:OE1	2.46	0.49
9:I1:1112:SER:HB3	10:J1:241:THR:CB	2.43	0.49
9:I2:1035:GLN:CB	16:P3:147:LEU:CB	2.82	0.49
17:Q1:165:ILE:CD1	17:Q1:174:TYR:HD1	2.25	0.49
17:Q1:697:ASP:OD2	17:Q1:761:ASN:HB2	2.13	0.49
17:Q1:715:LEU:CD2	17:Q1:751:TYR:CE1	2.95	0.49
17:Q1:880:PRO:O	17:Q1:881:LYS:HB3	2.13	0.49
17:Q1:1066:PHE:CE2	17:Q1:1140:VAL:HG23	2.48	0.49
17:Q2:527:ILE:CG1	17:Q2:530:ASP:HB2	2.43	0.49
17:Q2:542:ASN:CG	17:Q2:563:PHE:HD2	2.20	0.49
17:Q2:583:LEU:HG	17:Q2:584:LYS:N	2.28	0.49
17:Q2:646:PHE:CE2	17:Q2:669:VAL:CB	2.94	0.49
17:Q2:649:PHE:CE2	17:Q2:653:VAL:CG2	2.95	0.49
17:Q2:715:LEU:CD2	17:Q2:751:TYR:CE1	2.95	0.49
17:Q2:819:GLN:O	17:Q2:824:ASN:HB2	2.12	0.49
17:Q2:976:LYS:HG3	17:Q2:977:ASN:N	2.27	0.49
17:Q2:1066:PHE:CE2	17:Q2:1140:VAL:HG23	2.48	0.49
18:R1:533:LEU:CD2	18:R1:549:PHE:CE1	2.96	0.49
18:R1:613:ILE:N	18:R1:614:PRO:HD2	2.28	0.49
18:R1:714:TYR:HA	18:R1:717:LEU:HD12	1.94	0.49
19:R2:533:LEU:CD2	19:R2:549:PHE:CE1	2.96	0.49
19:R2:721:THR:O	19:R2:724:LEU:HD13	2.13	0.49
21:T1:57:TRP:HD1	21:T1:102:VAL:O	1.94	0.49
21:T1:214:PRO:HG2	21:T1:264:LEU:HA	1.93	0.49
22:U1:295:GLU:N	27:Z1:657:TYR:CE2	2.55	0.49
25:X1:665:TRP:HH2	27:Z1:556:GLN:CA	2.23	0.49
25:X2:693:ILE:HD12	27:Z2:7:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1225:PHE:HB2	27:Z1:539:ILE:HD13	1.89	0.49
27:Z1:94:PRO:HG2	27:Z1:94:PRO:O	2.09	0.49
27:Z1:381:ILE:HG22	27:Z1:381:ILE:O	2.12	0.49
27:Z2:79:LEU:HD12	27:Z2:139:ASP:CB	2.42	0.49
27:Z2:147:GLU:C	27:Z2:149:ASP:H	2.20	0.49
27:Z2:641:PHE:CE2	27:Z2:645:VAL:CG2	2.96	0.49
29:b1:57:TRP:CE3	29:b1:90:LYS:HB2	2.48	0.49
29:b2:63:LYS:HD3	29:b2:83:PRO:C	2.37	0.49
1:A2:1277:TRP:CG	1:A1:642:ARG:CZ	2.93	0.49
1:A4:1036:ALA:HB1	1:A4:1043:ALA:HB2	1.95	0.49
6:F1:1000:LEU:HD12	6:F1:1001:ILE:HG23	1.93	0.49
6:F2:139:GLN:HB3	9:I2:1340:LEU:HD21	1.92	0.49
6:F2:1267:ARG:HE	15:O4:259:ASP:CG	2.20	0.49
9:I1:917:TYR:CD1	13:M1:534:GLN:NE2	2.73	0.49
9:I1:1311:LEU:HD22	15:O1:266:GLN:HG3	1.94	0.49
9:I2:1026:TYR:HE1	13:M3:608:LYS:O	1.95	0.49
9:I2:1102:GLN:HG3	15:O3:272:SER:OG	2.13	0.49
9:I2:1103:LEU:HA	15:O3:275:LEU:CG	2.43	0.49
17:Q1:294:THR:HG21	17:Q1:308:ILE:HG12	1.93	0.49
17:Q1:332:LYS:CE	17:Q1:334:TRP:CE2	2.95	0.49
17:Q1:359:THR:OG1	17:Q1:387:MET:HB2	2.12	0.49
17:Q1:976:LYS:HG3	17:Q1:977:ASN:N	2.27	0.49
17:Q2:340:GLN:HG2	17:Q2:342:GLU:H	1.78	0.49
17:Q2:506:LYS:HD3	17:Q2:538:ILE:HD11	1.95	0.49
17:Q2:719:ASN:OD1	17:Q2:723:PHE:HE1	1.96	0.49
17:Q2:924:LEU:HG	17:Q2:947:ILE:HD11	1.95	0.49
17:Q2:934:VAL:HG22	17:Q2:935:GLU:H	1.77	0.49
17:Q2:1094:TYR:CZ	17:Q2:1098:THR:HG21	2.48	0.49
18:R1:555:ILE:HG23	18:R1:556:GLY:N	2.27	0.49
19:R2:714:TYR:HA	19:R2:717:LEU:HD12	1.94	0.49
21:T2:174:VAL:HA	21:T2:183:LYS:O	2.13	0.49
22:U1:30:ASP:OD1	22:U1:32:HIS:HB2	2.13	0.49
22:U2:67:GLU:OE1	22:U2:119:ALA:HB1	2.12	0.49
24:W1:522:ASN:O	24:W1:526:ARG:HG3	2.12	0.49
24:W2:53:GLY:HA2	24:W2:73:SER:HA	1.94	0.49
25:X1:704:GLN:NE2	27:Z1:598:LEU:CD1	2.63	0.49
25:X1:710:PHE:HZ	26:Y1:1313:ALA:HB1	1.70	0.49
25:X2:691:ASN:ND2	27:Z2:447:PHE:HD2	2.09	0.49
25:X2:695:GLN:N	27:Z2:431:TRP:HA	2.26	0.49
27:Z1:7:LEU:C	27:Z1:9:ALA:H	2.20	0.49
27:Z1:35:ILE:HD11	27:Z1:429:ILE:HD13	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:47:ASN:HD21	27:Z1:95:TRP:CH2	1.66	0.49
27:Z1:79:LEU:HD12	27:Z1:139:ASP:HB2	1.94	0.49
27:Z1:147:GLU:C	27:Z1:149:ASP:H	2.19	0.49
27:Z1:399:GLU:HB3	27:Z1:401:ASP:OD2	2.12	0.49
27:Z2:34:ARG:HB3	27:Z2:95:TRP:CH2	2.48	0.49
27:Z2:630:TRP:CD1	27:Z2:634:ILE:HD12	2.47	0.49
29:b2:16:ILE:HD11	29:b2:21:LYS:CB	2.43	0.49
29:b2:72:GLU:N	29:b2:90:LYS:O	2.44	0.49
1:A2:1224:PRO:CD	1:A1:648:TYR:CZ	2.94	0.49
4:D1:1014:LEU:HB2	4:D1:1016:LEU:HD13	1.93	0.49
6:F1:140:GLU:HB2	9:I1:1389:GLN:O	2.13	0.49
7:G2:252:LEU:CB	15:O4:248:SER:HA	2.43	0.49
9:I1:839:TRP:N	15:O1:198:ARG:HH22	2.08	0.49
9:I1:1051:LYS:HB2	14:N1:293:LYS:CD	2.28	0.49
9:I1:1254:VAL:CG2	15:O1:258:GLU:C	2.78	0.49
9:I2:389:GLN:N	9:I2:389:GLN:OE1	2.46	0.49
14:N1:464:LEU:CD1	14:N4:442:GLU:OE1	2.56	0.49
17:Q1:426:ILE:HD12	17:Q1:443:TRP:CH2	2.42	0.49
17:Q1:527:ILE:CG1	17:Q1:530:ASP:HB2	2.43	0.49
17:Q1:678:TYR:CE2	17:Q1:682:LEU:CD1	2.95	0.49
17:Q1:825:ASP:OD2	17:Q1:867:GLN:HB2	2.13	0.49
17:Q1:831:LEU:HD12	17:Q1:835:PHE:CB	2.43	0.49
17:Q1:902:THR:HG23	17:Q1:903:LEU:N	2.28	0.49
17:Q1:986:ILE:CG2	17:Q1:1102:PHE:HE1	2.25	0.49
17:Q1:1122:THR:HG23	17:Q1:1123:LEU:HD12	1.94	0.49
17:Q2:283:VAL:CG2	17:Q2:297:LEU:HG	2.42	0.49
17:Q2:376:THR:HG22	17:Q2:377:ILE:N	2.27	0.49
17:Q2:426:ILE:HD13	17:Q2:477:PHE:CZ	2.48	0.49
17:Q2:506:LYS:HD3	17:Q2:567:PHE:CD1	2.47	0.49
17:Q2:546:ILE:HB	17:Q2:548:PRO:HD2	1.94	0.49
17:Q2:694:LEU:O	17:Q2:698:PRO:HD2	2.13	0.49
17:Q2:896:TYR:CD2	17:Q2:933:LEU:HD12	2.46	0.49
17:Q2:1070:LEU:HB2	17:Q2:1071:PRO:CD	2.34	0.49
18:R1:528:HIS:O	18:R1:531:ILE:HG12	2.12	0.49
19:R2:519:GLU:O	19:R2:522:LEU:HB2	2.13	0.49
19:R2:684:ILE:O	19:R2:684:ILE:HG13	2.13	0.49
20:S1:317:GLY:O	20:S1:320:SER:HB3	2.13	0.49
22:U1:312:TRP:CZ3	22:U1:319:LEU:HB2	2.48	0.49
24:W1:102:MET:HE3	24:W1:163:PRO:HD2	1.95	0.49
25:X1:725:VAL:CG2	27:Z1:612:ILE:CG2	2.89	0.49
25:X1:762:LEU:CD1	26:Y1:1352:VAL:HG13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:714:PHE:CE2	26:Y2:1316:GLU:CB	2.96	0.49
25:X2:717:LYS:HE3	26:Y2:1320:LEU:HD13	1.82	0.49
26:Y2:1362:LEU:HD22	26:Y2:1387:LYS:HG2	1.88	0.49
26:Y2:1371:VAL:O	26:Y2:1371:VAL:HG12	2.00	0.49
27:Z1:41:ASN:O	27:Z1:59:PHE:CD1	2.65	0.49
27:Z1:399:GLU:CG	27:Z2:263:TRP:HE3	2.26	0.49
27:Z2:283:GLY:N	27:Z2:283:GLY:HA3	2.10	0.49
27:Z2:399:GLU:HB3	27:Z2:401:ASP:OD2	2.12	0.49
28:a1:995:VAL:HG21	28:a1:1024:ILE:HD12	1.93	0.49
29:b2:10:ILE:HG21	29:b2:12:LYS:NZ	2.28	0.49
29:b2:27:ILE:HG12	29:b2:48:GLN:CD	2.38	0.49
1:A2:1221:ILE:HD11	1:A1:600:LYS:CE	2.14	0.49
1:A2:1237:LEU:HD11	1:A1:588:SER:HA	1.93	0.49
1:A3:1400:SER:O	4:D3:873:GLN:HB2	2.08	0.49
6:F1:267:GLU:CD	9:I1:1202:VAL:HG11	2.38	0.49
7:G1:247:ASP:HA	15:O2:247:TRP:CH2	1.96	0.49
9:I1:917:TYR:N	13:M1:534:GLN:NE2	2.58	0.49
9:I1:923:GLY:N	15:O1:187:ASN:ND2	2.61	0.49
9:I1:980:ILE:CG1	15:O1:172:ALA:C	2.79	0.49
9:I2:906:GLY:HA3	13:M3:573:ARG:CG	2.30	0.49
9:I2:1107:SER:HB2	13:M3:615:PRO:CB	2.26	0.49
9:I2:1308:THR:HB	14:N3:413:VAL:CB	2.42	0.49
17:Q1:89:TYR:HE1	17:Q1:398:LYS:HE3	1.77	0.49
17:Q1:125:ARG:HG2	17:Q1:125:ARG:O	2.13	0.49
17:Q1:316:ILE:HD11	17:Q1:331:LEU:HD21	1.87	0.49
17:Q1:506:LYS:HD3	17:Q1:567:PHE:CD1	2.47	0.49
17:Q1:550:LEU:HD12	17:Q1:551:ASN:OD1	2.13	0.49
17:Q1:553:LEU:HD22	17:Q1:632:LYS:HE2	1.95	0.49
17:Q1:670:THR:O	17:Q1:673:ILE:HG22	2.13	0.49
17:Q1:752:GLN:O	17:Q1:755:GLN:HG3	2.12	0.49
17:Q1:819:GLN:O	17:Q1:824:ASN:HB2	2.12	0.49
17:Q1:836:PHE:CD2	17:Q1:842:GLU:CG	2.95	0.49
17:Q1:866:GLN:O	17:Q1:867:GLN:HB3	2.13	0.49
17:Q1:975:PHE:HE1	17:Q1:1044:ARG:NH2	2.10	0.49
17:Q1:1016:PHE:CE2	17:Q1:1020:ARG:CG	2.95	0.49
17:Q2:461:ASP:CG	17:Q2:462:SER:H	2.19	0.49
17:Q2:550:LEU:HD12	17:Q2:551:ASN:OD1	2.13	0.49
17:Q2:642:PHE:CB	17:Q2:643:PRO:HD3	2.37	0.49
17:Q2:725:PHE:CD1	17:Q2:744:LYS:CG	2.95	0.49
17:Q2:864:PHE:HE1	19:R2:680:ILE:CG1	2.26	0.49
17:Q2:969:VAL:CG1	17:Q2:1009:LEU:HD22	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:442:LEU:HD22	18:R1:470:LEU:HD21	1.94	0.49
19:R2:50:ALA:HB1	19:R2:69:GLU:HG3	1.93	0.49
19:R2:674:ALA:HB3	19:R2:676:LYS:HG2	1.92	0.49
20:S2:281:ILE:HB	20:S2:301:LEU:HD21	1.93	0.49
22:U1:243:PHE:CE2	27:Z1:660:SER:HG	1.68	0.49
23:V2:110:GLY:O	23:V2:114:ILE:HG13	2.12	0.49
24:W1:188:LYS:HE2	24:W1:191:GLY:HA2	1.94	0.49
26:Y1:1122:ILE:HG13	29:b1:67:SER:H	1.78	0.49
26:Y2:1321:MET:CA	27:Z1:47:ASN:N	2.75	0.49
26:Y2:1455:ASN:CB	26:Y2:1456:LEU:C	2.85	0.49
27:Z1:135:LYS:NZ	27:Z1:217:LEU:O	2.44	0.49
27:Z1:144:VAL:N	27:Z1:152:THR:O	2.41	0.49
1:A2:1224:PRO:CA	1:A1:598:VAL:HG23	2.35	0.49
1:A4:1277:TRP:N	1:A4:1278:PRO:CD	2.75	0.49
4:D4:1052:LEU:O	4:D4:1056:ARG:HG2	2.13	0.49
9:I1:917:TYR:CZ	13:M1:534:GLN:C	2.62	0.49
9:I2:959:SER:O	16:P3:151:LYS:CE	2.59	0.49
9:I2:1033:PRO:HG3	13:M3:616:LEU:O	2.07	0.49
9:I2:1049:LEU:H	14:N3:293:LYS:HB2	1.78	0.49
9:I2:1162:TYR:C	15:O3:266:GLN:HE21	2.20	0.49
9:I2:1305:LEU:HA	15:O3:264:ILE:CD1	2.28	0.49
13:M2:495:TRP:CG	14:N2:280:LEU:HD13	2.48	0.49
17:Q1:103:LYS:HA	17:Q1:103:LYS:CE	2.35	0.49
17:Q1:847:LEU:CD2	17:Q1:875:PHE:HD2	2.19	0.49
17:Q1:877:GLU:HB3	17:Q1:889:GLN:HB2	1.95	0.49
17:Q1:960:ILE:HA	17:Q1:963:LYS:HE2	1.95	0.49
17:Q1:975:PHE:CD1	17:Q1:980:ILE:HD12	2.42	0.49
17:Q1:983:VAL:CG1	17:Q1:1104:ILE:HD12	2.43	0.49
17:Q1:1003:VAL:HG23	17:Q1:1004:GLU:N	2.28	0.49
17:Q1:1041:VAL:O	17:Q1:1045:ILE:HG13	2.13	0.49
17:Q2:332:LYS:CE	17:Q2:334:TRP:CE2	2.95	0.49
17:Q2:584:LYS:CB	17:Q2:586:ASP:HB2	2.41	0.49
17:Q2:688:THR:HG22	17:Q2:692:GLU:CB	2.42	0.49
17:Q2:697:ASP:OD1	17:Q2:698:PRO:HD3	2.13	0.49
17:Q2:866:GLN:O	17:Q2:867:GLN:HB3	2.13	0.49
17:Q2:1104:ILE:HG22	17:Q2:1105:ASP:N	2.27	0.49
18:R1:379:ILE:HG13	18:R1:385:LEU:HD23	1.95	0.49
18:R1:603:SER:OG	18:R1:616:LEU:HD12	2.13	0.49
19:R2:508:MET:HB3	19:R2:512:TYR:CE2	2.48	0.49
23:V1:278:CYS:SG	23:V1:323:ASP:HB2	2.53	0.49
23:V2:278:CYS:SG	23:V2:323:ASP:HB2	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:742:GLN:HE21	25:X1:743:GLN:N	2.11	0.49
25:X1:744:ALA:HB1	27:Z1:631:PHE:CE1	2.43	0.49
26:Y2:1124:THR:HB	26:Y2:1126:LEU:CD2	2.33	0.49
26:Y2:1228:LEU:CD1	27:Z2:539:ILE:O	2.59	0.49
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:HB2	1.67	0.49
26:Y2:1454:LYS:HZ3	27:Z2:288:ASN:HB2	1.77	0.49
27:Z1:263:TRP:CD1	27:Z1:270:VAL:HG21	2.42	0.49
27:Z2:287:ILE:HD13	27:Z2:287:ILE:HA	1.91	0.49
27:Z2:292:GLY:O	27:Z2:295:TYR:CE1	2.63	0.49
27:Z2:417:ILE:CG2	27:Z2:448:GLN:CD	2.86	0.49
29:b1:76:PHE:CE1	29:b1:89:PHE:CG	3.00	0.49
29:b2:58:HIS:N	29:b2:89:PHE:O	2.46	0.49
1:A4:1048:ARG:HG3	4:D4:1096:TYR:CE2	2.48	0.49
4:D1:1048:MET:SD	4:D1:1106:LEU:HD12	2.53	0.49
4:D3:1052:LEU:O	4:D3:1056:ARG:HG2	2.13	0.49
6:F1:130:LEU:HD23	9:I1:1388:GLU:OE1	2.12	0.49
7:G1:251:TYR:CD2	15:O2:244:GLU:C	2.71	0.49
9:I1:909:ARG:HD2	15:O1:205:ARG:NH2	2.27	0.49
9:I2:754:ARG:NH2	13:M3:573:ARG:HH12	2.06	0.49
9:I2:890:TYR:O	13:M3:591:ASP:HB2	2.12	0.49
9:I2:911:PRO:HG3	15:O3:197:ARG:CG	2.40	0.49
17:Q1:138:CYS:HA	17:Q1:165:ILE:O	2.13	0.49
17:Q1:333:ILE:HG23	17:Q1:333:ILE:O	2.12	0.49
17:Q1:583:LEU:HG	17:Q1:584:LYS:N	2.27	0.49
17:Q1:705:LYS:HE3	17:Q1:710:ILE:CD1	2.43	0.49
17:Q1:725:PHE:HB2	17:Q1:744:LYS:CD	2.42	0.49
17:Q2:553:LEU:HD22	17:Q2:632:LYS:HE2	1.94	0.49
17:Q2:681:ILE:HD13	17:Q2:681:ILE:C	2.38	0.49
17:Q2:929:LEU:HB3	19:R2:714:TYR:CE1	2.45	0.49
17:Q2:929:LEU:HD21	19:R2:691:THR:HA	1.93	0.49
17:Q2:975:PHE:HE1	17:Q2:1044:ARG:NH2	2.10	0.49
17:Q2:983:VAL:CG1	17:Q2:1104:ILE:HD12	2.42	0.49
18:R1:527:VAL:CG2	18:R1:580:PHE:CG	2.96	0.49
18:R1:531:ILE:HD12	18:R1:583:GLU:CD	2.37	0.49
19:R2:700:LYS:HG3	19:R2:703:LEU:HG	1.94	0.49
20:S1:173:ILE:H	20:S1:173:ILE:HD12	1.78	0.49
20:S1:523:THR:HA	20:S1:526:HIS:HB2	1.94	0.49
22:U1:192:ILE:HB	27:Z1:664:ARG:CG	2.36	0.49
25:X1:679:LEU:C	26:Y1:1281:MET:HE1	2.37	0.49
25:X1:776:PHE:CA	27:Z1:666:GLU:OE2	2.61	0.49
25:X1:788:ASP:C	25:X1:788:ASP:CG	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:790:ASN:CG	27:Z1:669:THR:C	2.80	0.49
25:X2:745:TYR:HD2	27:Z1:104:SER:HB2	1.68	0.49
26:Y1:1122:ILE:HD12	29:b1:65:PHE:CE2	2.46	0.49
26:Y2:1368:LEU:HB2	26:Y2:1383:ALA:HB2	1.95	0.49
27:Z1:125:SER:OG	27:Z1:146:LYS:HD3	2.12	0.49
27:Z1:192:LEU:HD12	27:Z1:226:ILE:HD11	1.89	0.49
27:Z2:216:LEU:HD11	27:Z2:272:ILE:CG1	2.36	0.49
27:Z2:363:LEU:HD21	27:Z2:373:LEU:HD11	1.90	0.49
29:b2:16:ILE:HD12	29:b2:21:LYS:HB2	1.93	0.49
29:b2:78:TYR:OH	29:b2:80:TYR:CZ	2.55	0.49
1:A2:1091:VAL:HG12	4:D1:1104:GLU:HG3	1.95	0.48
1:A2:1200:ARG:CA	1:A1:595:GLU:CB	2.90	0.48
1:A2:1225:PRO:CG	1:A1:640:LEU:HD21	2.43	0.48
1:A3:862:LEU:HD11	1:A3:904:GLN:CB	2.43	0.48
1:A3:1201:ARG:NH2	1:A4:647:GLU:HA	2.26	0.48
1:A3:1223:GLU:OE2	1:A4:648:TYR:CD2	2.65	0.48
1:A4:1051:THR:CB	4:D4:1096:TYR:CE2	2.91	0.48
4:D1:1031:ARG:O	4:D1:1034:SER:OG	2.27	0.48
6:F1:138:ILE:HA	9:I1:1391:THR:CB	2.41	0.48
6:F1:160:SER:C	9:I1:1335:LYS:HA	2.32	0.48
6:F2:1001:ILE:HD12	6:F2:1001:ILE:O	2.13	0.48
9:I1:52:ASP:OD1	9:I1:53:THR:N	2.46	0.48
9:I1:842:ASN:ND2	13:M1:542:ASP:CG	2.68	0.48
9:I1:911:PRO:C	13:M1:541:LEU:HD21	2.34	0.48
9:I2:754:ARG:NH2	13:M3:573:ARG:NH1	2.53	0.48
9:I2:928:LEU:HD23	15:O3:179:LEU:HD23	1.89	0.48
9:I2:1072:ASN:O	9:I2:1076:THR:HG22	2.13	0.48
9:I2:1103:LEU:HB2	13:M3:611:LYS:HG2	1.93	0.48
9:I2:1162:TYR:CA	15:O3:266:GLN:NE2	2.49	0.48
9:I2:1305:LEU:O	15:O3:264:ILE:HD12	2.12	0.48
17:Q1:283:VAL:CG2	17:Q1:297:LEU:HG	2.42	0.48
17:Q1:401:ILE:CG2	17:Q1:403:GLN:HG2	2.43	0.48
17:Q1:542:ASN:CG	17:Q1:563:PHE:HD2	2.20	0.48
17:Q2:62:THR:HB	17:Q2:69:VAL:HG22	1.94	0.48
17:Q2:825:ASP:OD2	17:Q2:867:GLN:HB2	2.13	0.48
18:R1:349:SER:OG	18:R1:358:VAL:HG21	2.13	0.48
18:R1:436:LEU:CD2	18:R1:448:ILE:O	2.53	0.48
18:R1:635:LEU:HD22	18:R1:652:LEU:HD22	1.95	0.48
19:R2:527:VAL:HB	19:R2:580:PHE:CD1	2.48	0.48
20:S2:182:ARG:HD2	20:S2:449:GLN:OE1	2.13	0.48
21:T1:229:ARG:HB2	21:T1:229:ARG:HH11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V1:158:PHE:O	23:V1:162:VAL:HG23	2.12	0.48
24:W2:188:LYS:HE2	24:W2:191:GLY:HA2	1.95	0.48
25:X2:655:PHE:HE2	27:Z2:546:GLY:N	2.10	0.48
26:Y1:1236:ASP:C	26:Y1:1239:PHE:CE2	2.88	0.48
26:Y1:1387:LYS:HE3	26:Y1:1387:LYS:HB2	1.31	0.48
26:Y2:1392:ARG:NH2	27:Z2:690:ASP:CA	2.36	0.48
27:Z1:216:LEU:HG	27:Z1:272:ILE:HG13	1.91	0.48
27:Z2:26:ILE:CG2	27:Z2:26:ILE:O	2.60	0.48
27:Z2:356:LEU:HD13	27:Z2:358:ARG:HH22	1.66	0.48
29:b1:51:VAL:O	29:b1:51:VAL:HG12	2.12	0.48
29:b1:69:VAL:HA	29:b2:46:LYS:HD3	1.94	0.48
1:A1:780:GLU:HG3	1:A1:822:ILE:CG2	2.43	0.48
1:A2:1055:ARG:NH2	1:A2:1058:GLU:OE1	2.46	0.48
1:A3:1223:GLU:OE2	1:A4:648:TYR:HD2	1.95	0.48
9:I1:288:ILE:O	9:I1:292:GLY:N	2.46	0.48
9:I1:656:MET:O	9:I1:659:LYS:NZ	2.44	0.48
9:I1:920:PHE:HB2	15:O1:191:ARG:HH22	1.77	0.48
9:I1:1669:ARG:O	9:I2:1671:LEU:HD13	2.12	0.48
13:M3:495:TRP:CG	14:N3:280:LEU:HD13	2.48	0.48
15:O1:85:LYS:HD2	15:O1:94:ALA:HB2	1.96	0.48
17:Q1:703:THR:CB	17:Q1:709:PHE:HB2	2.43	0.48
17:Q1:718:ILE:HD12	17:Q1:718:ILE:H	1.77	0.48
17:Q1:851:LEU:HG	17:Q1:881:LYS:NZ	2.28	0.48
17:Q1:979:SER:HB2	17:Q1:1104:ILE:HG23	1.90	0.48
17:Q2:752:GLN:O	17:Q2:755:GLN:HG3	2.12	0.48
18:R1:519:GLU:O	18:R1:522:LEU:HB2	2.13	0.48
18:R1:527:VAL:HB	18:R1:580:PHE:CD1	2.48	0.48
19:R2:227:ILE:C	19:R2:229:ASN:H	2.22	0.48
19:R2:677:LEU:N	19:R2:677:LEU:HD22	2.27	0.48
20:S1:152:ALA:HB3	21:T1:272:SER:OG	2.13	0.48
20:S2:152:ALA:HB3	21:T2:272:SER:OG	2.13	0.48
21:T2:229:ARG:HB2	21:T2:229:ARG:HH11	1.78	0.48
22:U1:248:LYS:HG2	25:X1:805:ARG:CA	2.43	0.48
22:U1:324:ASP:HB3	23:V1:64:LYS:HD3	1.95	0.48
22:U2:30:ASP:OD1	22:U2:32:HIS:HB2	2.13	0.48
22:U2:77:TYR:HA	22:U2:110:SER:HB3	1.95	0.48
22:U2:312:TRP:CZ3	22:U2:319:LEU:HB2	2.48	0.48
23:V1:262:ILE:HG12	23:V1:289:ILE:HG23	1.96	0.48
24:W1:530:LYS:N	24:W1:743:ASN:O	2.46	0.48
24:W2:163:PRO:HA	24:W2:178:LEU:HA	1.95	0.48
26:Y1:1228:LEU:CD1	27:Z1:539:ILE:O	2.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1348:LYS:O	26:Y2:1352:VAL:HG23	2.13	0.48
26:Y2:1382:VAL:HG12	26:Y2:1385:LEU:CA	2.43	0.48
27:Z1:178:ARG:NH2	27:Z1:280:LYS:CD	2.71	0.48
27:Z1:190:ASP:OD1	27:Z1:311:GLN:CB	2.60	0.48
27:Z1:417:ILE:O	27:Z1:418:ALA:HB2	2.13	0.48
27:Z2:190:ASP:OD1	27:Z2:311:GLN:CB	2.60	0.48
27:Z2:286:THR:CG2	28:a1:1064:SER:O	2.61	0.48
27:Z2:342:TYR:O	27:Z2:342:TYR:CD2	2.65	0.48
27:Z2:387:MET:CE	27:Z2:391:SER:CA	2.84	0.48
1:A1:862:LEU:HD11	1:A1:904:GLN:CB	2.43	0.48
1:A2:1201:ARG:CG	1:A1:647:GLU:HB2	2.26	0.48
1:A2:1223:GLU:CD	1:A1:611:ILE:HD13	2.35	0.48
4:D1:1043:VAL:N	4:D1:1044:PRO:CD	2.75	0.48
6:F1:1001:ILE:O	6:F1:1001:ILE:HD12	2.13	0.48
6:F1:1052:CYS:HB3	9:I1:1388:GLU:N	2.28	0.48
6:F1:1265:GLN:CG	15:O2:249:ARG:C	2.86	0.48
6:F2:133:GLN:C	9:I2:1388:GLU:OE1	2.57	0.48
7:G1:254:ASN:ND2	15:O2:250:LEU:CB	2.68	0.48
9:I1:903:GLY:C	13:M1:575:TYR:N	2.71	0.48
9:I1:1072:ASN:O	9:I1:1076:THR:HG22	2.13	0.48
17:Q1:385:THR:HA	17:Q1:507:ILE:HD13	1.36	0.48
17:Q1:516:LEU:CB	17:Q1:517:PRO:HD3	2.37	0.48
17:Q1:696:LEU:HD13	17:Q1:700:GLU:CG	2.38	0.48
17:Q1:709:PHE:CD1	17:Q1:709:PHE:N	2.82	0.48
17:Q1:936:LYS:HE2	17:Q1:943:THR:HG21	1.95	0.48
17:Q1:960:ILE:HB	17:Q1:1006:TYR:CZ	2.48	0.48
17:Q1:1058:LEU:HD23	17:Q1:1136:THR:HG21	1.95	0.48
17:Q2:138:CYS:HA	17:Q2:165:ILE:O	2.13	0.48
17:Q2:996:VAL:HG13	17:Q2:997:VAL:N	2.28	0.48
18:R1:8:GLN:C	18:R1:10:GLU:N	2.68	0.48
18:R1:508:MET:O	18:R1:511:ILE:HG22	2.13	0.48
18:R1:630:LEU:O	18:R1:633:THR:HA	2.13	0.48
18:R1:721:THR:O	18:R1:724:LEU:HD13	2.13	0.48
19:R2:677:LEU:HD13	19:R2:721:THR:OG1	2.13	0.48
21:T2:181:LEU:HD23	21:T2:201:GLU:HG2	1.95	0.48
22:U1:299:GLU:N	27:Z1:652:GLN:C	2.50	0.48
22:U1:311:SER:O	22:U1:319:LEU:HD12	2.13	0.48
22:U2:324:ASP:HB3	23:V2:64:LYS:HD3	1.95	0.48
24:W1:24:VAL:HG23	24:W1:93:ILE:HG23	1.95	0.48
24:W2:591:MET:HE1	24:W2:630:THR:OG1	2.12	0.48
25:X1:648:LEU:CD1	27:Z2:547:VAL:HG11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:655:PHE:HZ	27:Z2:545:LEU:CA	2.26	0.48
25:X2:717:LYS:NZ	27:Z1:49:LEU:CD1	2.76	0.48
25:X2:753:GLU:C	25:X2:756:ASN:ND2	2.69	0.48
25:X2:808:ASP:OD2	26:Y2:1395:LEU:HD11	2.12	0.48
26:Y2:1277:LYS:CD	27:Z2:571:ILE:CG1	2.88	0.48
26:Y2:1362:LEU:CD1	26:Y2:1387:LYS:HE3	2.30	0.48
27:Z1:241:THR:HB	27:Z1:246:LYS:HE2	0.51	0.48
27:Z1:292:GLY:O	27:Z1:295:TYR:CE1	2.63	0.48
27:Z2:208:PHE:CE2	27:Z2:279:ALA:C	2.92	0.48
27:Z2:417:ILE:O	27:Z2:417:ILE:HG22	2.12	0.48
29:b1:25:LEU:O	29:b1:29:LYS:HG3	2.13	0.48
1:A1:1036:ALA:HB1	1:A1:1043:ALA:HB2	1.95	0.48
1:A1:1055:ARG:NH2	1:A1:1058:GLU:OE1	2.47	0.48
1:A4:862:LEU:HD11	1:A4:904:GLN:CB	2.43	0.48
4:D1:1052:LEU:O	4:D1:1056:ARG:HG2	2.13	0.48
6:F2:139:GLN:CB	9:I2:1340:LEU:HD22	2.43	0.48
9:I1:843:GLU:HB3	13:M1:535:GLU:HA	1.95	0.48
9:I1:911:PRO:O	13:M1:545:GLU:CG	2.61	0.48
9:I1:1048:GLU:OE2	15:O1:166:ILE:O	2.31	0.48
9:I2:1046:HIS:CE1	14:N3:289:PHE:CZ	3.01	0.48
9:I2:1106:LYS:HD3	15:O3:275:LEU:HD12	1.95	0.48
13:M4:495:TRP:CG	14:N4:280:LEU:HD13	2.48	0.48
17:Q1:344:SER:O	17:Q1:347:PHE:HE1	1.96	0.48
17:Q1:346:LEU:CD1	17:Q1:367:ILE:HG23	2.44	0.48
17:Q1:426:ILE:HD13	17:Q1:477:PHE:CZ	2.48	0.48
17:Q1:442:LYS:O	17:Q1:504:PHE:CD2	2.62	0.48
17:Q1:924:LEU:HG	17:Q1:947:ILE:HD11	1.95	0.48
17:Q2:94:ILE:O	17:Q2:94:ILE:HG12	2.14	0.48
17:Q2:125:ARG:HG2	17:Q2:125:ARG:O	2.13	0.48
17:Q2:333:ILE:O	17:Q2:333:ILE:HG23	2.12	0.48
17:Q2:705:LYS:HE3	17:Q2:710:ILE:CD1	2.43	0.48
17:Q2:725:PHE:HB2	17:Q2:744:LYS:CD	2.42	0.48
17:Q2:831:LEU:HD12	17:Q2:835:PHE:CB	2.43	0.48
17:Q2:986:ILE:CG2	17:Q2:1102:PHE:HE1	2.26	0.48
17:Q2:1071:PRO:HB2	17:Q2:1146:TYR:HE2	1.78	0.48
18:R1:511:ILE:HD11	18:R1:548:GLN:CG	2.43	0.48
18:R1:533:LEU:HD23	18:R1:549:PHE:CZ	2.49	0.48
19:R2:547:GLU:HB2	19:R2:591:ILE:HD11	1.95	0.48
19:R2:635:LEU:HD22	19:R2:652:LEU:HD22	1.95	0.48
21:T1:118:VAL:O	21:T1:125:VAL:HA	2.14	0.48
23:V2:390:TRP:C	23:V2:393:PRO:HD2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:526:ARG:CA	24:W1:740:PHE:HA	2.41	0.48
24:W1:534:ASP:CA	24:W1:746:CYS:O	2.58	0.48
24:W2:160:VAL:HG23	24:W2:161:ARG:N	2.28	0.48
25:X1:655:PHE:CZ	27:Z1:545:LEU:CA	2.92	0.48
25:X1:676:ILE:HD11	26:Y1:1274:ASN:HD21	1.75	0.48
25:X2:655:PHE:CZ	27:Z2:545:LEU:HB2	2.38	0.48
25:X2:687:GLU:HG3	27:Z2:577:LEU:HD11	1.95	0.48
25:X2:776:PHE:CA	27:Z2:666:GLU:OE2	2.61	0.48
25:X2:778:LYS:O	25:X2:789:GLU:N	2.46	0.48
26:Y1:1118:ALA:HB1	29:b1:71:HIS:CG	2.49	0.48
26:Y1:1118:ALA:HB2	29:b1:71:HIS:O	2.14	0.48
26:Y2:1406:VAL:O	26:Y2:1410:GLN:HG2	2.13	0.48
27:Z1:286:THR:HG23	28:a2:1064:SER:C	2.38	0.48
27:Z1:297:TYR:HB3	27:Z1:320:ASP:HB2	1.94	0.48
27:Z1:363:LEU:HD21	27:Z1:373:LEU:CD1	2.42	0.48
27:Z1:598:LEU:CD2	27:Z1:601:ARG:NH2	2.63	0.48
27:Z1:709:THR:O	27:Z1:709:THR:CG2	2.59	0.48
27:Z2:46:TYR:OH	27:Z2:431:TRP:CZ2	2.61	0.48
27:Z2:363:LEU:HD21	27:Z2:373:LEU:CD1	2.42	0.48
1:A3:1200:ARG:HG2	1:A4:591:ASP:HB3	0.60	0.48
4:D2:1048:MET:SD	4:D2:1106:LEU:HD12	2.53	0.48
6:F1:142:ALA:HB1	9:I1:1395:LEU:HD23	1.94	0.48
6:F1:1568:GLN:HA	6:F1:1571:VAL:HG22	1.96	0.48
9:I1:1122:ASN:O	9:I1:1126:HIS:ND1	2.42	0.48
9:I2:52:ASP:OD1	9:I2:53:THR:N	2.46	0.48
14:N1:464:LEU:HD21	14:N4:446:LEU:CD1	2.43	0.48
15:O1:142:PHE:HA	15:O1:145:ILE:HG22	1.94	0.48
17:Q1:140:LEU:HD23	17:Q1:141:THR:C	2.39	0.48
17:Q1:246:LYS:HD3	17:Q1:247:LEU:H	1.76	0.48
17:Q1:426:ILE:CD1	17:Q1:443:TRP:HH2	2.27	0.48
17:Q1:441:ARG:NH1	17:Q1:515:ASN:ND2	2.62	0.48
17:Q1:534:THR:HA	17:Q1:537:GLU:HG2	1.95	0.48
17:Q1:589:GLU:HB2	17:Q1:692:GLU:OE2	2.13	0.48
17:Q1:704:SER:H	17:Q1:707:PRO:CG	2.25	0.48
17:Q1:705:LYS:HE3	17:Q1:710:ILE:HD13	1.94	0.48
17:Q1:781:TYR:HA	17:Q1:784:ASN:ND2	2.29	0.48
17:Q1:1073:ASN:N	17:Q1:1073:ASN:HD22	2.11	0.48
17:Q1:1149:ASN:HB3	17:Q1:1152:THR:HG1	1.79	0.48
17:Q2:1041:VAL:O	17:Q2:1045:ILE:HG13	2.13	0.48
17:Q2:1058:LEU:HD23	17:Q2:1136:THR:HG21	1.96	0.48
18:R1:667:LEU:CD1	18:R1:671:LEU:HG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:603:SER:OG	19:R2:616:LEU:HD12	2.13	0.48
20:S2:173:ILE:H	20:S2:173:ILE:HD12	1.78	0.48
22:U1:289:GLN:HB2	25:X1:794:ILE:HG23	1.94	0.48
23:V1:110:GLY:O	23:V1:114:ILE:HG13	2.12	0.48
25:X2:679:LEU:C	26:Y2:1281:MET:HE1	2.37	0.48
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CD2	2.65	0.48
26:Y1:1348:LYS:O	26:Y1:1352:VAL:HG23	2.13	0.48
26:Y1:1450:GLY:HA2	27:Z1:328:PHE:CE1	2.49	0.48
26:Y2:1211:LEU:HB2	26:Y2:1214:ILE:HB	1.94	0.48
26:Y2:1317:TYR:CE2	26:Y2:1318:LEU:CD2	2.97	0.48
27:Z1:26:ILE:HB	27:Z1:440:MET:HE1	1.70	0.48
27:Z1:286:THR:CG2	28:a2:1064:SER:O	2.61	0.48
27:Z1:358:ARG:CZ	27:Z1:382:GLN:OE1	2.49	0.48
27:Z2:79:LEU:HD12	27:Z2:139:ASP:HB2	1.94	0.48
27:Z2:286:THR:HG23	28:a1:1064:SER:C	2.38	0.48
29:b2:46:LYS:CG	29:b2:57:TRP:O	2.62	0.48
1:A2:780:GLU:HG3	1:A2:822:ILE:CG2	2.43	0.48
1:A4:780:GLU:HG3	1:A4:822:ILE:CG2	2.43	0.48
1:A4:1055:ARG:NH2	1:A4:1058:GLU:OE1	2.47	0.48
4:D3:1048:MET:SD	4:D3:1106:LEU:HD12	2.53	0.48
9:I1:976:ARG:CD	15:O1:174:LEU:N	2.77	0.48
9:I1:1034:ASP:CG	16:P1:147:LEU:HD23	2.38	0.48
9:I2:300:LEU:HD23	9:I2:300:LEU:O	2.14	0.48
9:I2:894:VAL:HB	13:M3:587:GLU:CD	2.37	0.48
9:I2:960:SER:CB	16:P3:154:ALA:O	2.58	0.48
9:I2:1100:ILE:CG1	13:M3:611:LYS:HG3	2.40	0.48
9:I2:1305:LEU:HG	15:O3:260:LEU:CD1	2.42	0.48
17:Q1:73:GLN:CD	17:Q1:73:GLN:H	2.21	0.48
17:Q1:425:VAL:HG22	17:Q1:446:ILE:HD12	1.95	0.48
17:Q1:694:LEU:O	17:Q1:698:PRO:HD2	2.13	0.48
17:Q1:719:ASN:OD1	17:Q1:723:PHE:HE1	1.95	0.48
17:Q1:823:GLN:C	17:Q1:825:ASP:H	2.22	0.48
17:Q1:907:THR:O	17:Q1:910:ASP:HB2	2.14	0.48
17:Q1:1016:PHE:CE1	17:Q1:1065:VAL:CG1	2.97	0.48
17:Q2:171:LYS:HD2	17:Q2:171:LYS:C	2.38	0.48
17:Q2:425:VAL:HG22	17:Q2:446:ILE:HD12	1.95	0.48
18:R1:508:MET:HB3	18:R1:512:TYR:CE2	2.48	0.48
19:R2:533:LEU:HD23	19:R2:549:PHE:CZ	2.49	0.48
19:R2:590:LEU:CD2	19:R2:663:LEU:HD11	2.43	0.48
20:S2:431:ASN:HB2	20:S2:434:LYS:HB3	1.96	0.48
20:S2:433:GLU:OE1	20:S2:467:SER:OG	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:T2:38:VAL:O	21:T2:39:GLU:HG3	2.14	0.48
22:U1:299:GLU:OE2	27:Z1:652:GLN:OE1	2.31	0.48
22:U2:196:ARG:HH11	22:U2:202:LEU:HD21	1.79	0.48
23:V1:159:ILE:HG12	23:V1:175:LEU:CB	2.39	0.48
24:W1:160:VAL:HG23	24:W1:161:ARG:H	1.79	0.48
25:X2:695:GLN:N	27:Z2:431:TRP:HB3	2.29	0.48
26:Y1:1317:TYR:CE2	26:Y1:1318:LEU:CD2	2.96	0.48
26:Y2:1124:THR:HA	29:b2:80:TYR:OH	2.13	0.48
26:Y2:1382:VAL:HG13	26:Y2:1385:LEU:CG	2.44	0.48
26:Y2:1392:ARG:NE	27:Z2:690:ASP:OD2	2.46	0.48
27:Z1:538:ARG:HG2	27:Z2:550:HIS:H	1.77	0.48
27:Z1:679:GLU:OE2	27:Z2:650:SER:O	2.32	0.48
27:Z2:297:TYR:HD1	27:Z2:320:ASP:HB2	1.79	0.48
27:Z2:428:TYR:CD2	27:Z2:428:TYR:O	2.67	0.48
29:b1:7:SER:C	29:b1:7:SER:CA	2.86	0.48
29:b1:75:HIS:ND1	29:b1:90:LYS:HD2	2.22	0.48
1:A2:1274:ASP:CA	1:A1:642:ARG:HH11	2.25	0.48
1:A2:1328:ARG:NH2	4:D1:976:ARG:HG3	2.29	0.48
1:A3:1036:ALA:HB1	1:A3:1043:ALA:HB2	1.95	0.48
1:A3:1204:TRP:HZ3	1:A4:647:GLU:O	1.36	0.48
6:F2:159:ALA:O	9:I2:1197:ASN:O	2.32	0.48
6:F2:176:ARG:NH2	9:I2:1207:PRO:CG	2.77	0.48
7:G2:250:THR:N	15:O4:254:ARG:CB	2.53	0.48
9:I1:911:PRO:C	13:M1:545:GLU:CD	2.80	0.48
9:I1:1015:TYR:OH	9:I1:1089:TYR:O	2.31	0.48
9:I2:891:LEU:N	13:M3:591:ASP:CA	2.76	0.48
9:I2:914:ASN:ND2	15:O3:194:GLU:CG	2.71	0.48
9:I2:1103:LEU:CD2	13:M3:614:ASP:HB2	2.37	0.48
13:M4:605:THR:O	15:O4:261:LYS:NZ	2.43	0.48
17:Q1:340:GLN:HG2	17:Q1:342:GLU:H	1.78	0.48
17:Q1:394:LYS:HG2	17:Q1:395:PHE:N	2.27	0.48
17:Q1:781:TYR:HA	17:Q1:784:ASN:HD21	1.79	0.48
17:Q2:120:ILE:O	17:Q2:120:ILE:HG23	2.13	0.48
17:Q2:283:VAL:HG21	17:Q2:297:LEU:CD1	2.42	0.48
17:Q2:401:ILE:CG2	17:Q2:403:GLN:HG2	2.43	0.48
17:Q2:402:PRO:HB3	17:Q2:461:ASP:O	2.13	0.48
17:Q2:823:GLN:C	17:Q2:825:ASP:H	2.21	0.48
17:Q2:960:ILE:HB	17:Q2:1006:TYR:CZ	2.49	0.48
19:R2:511:ILE:HD11	19:R2:548:GLN:CG	2.43	0.48
21:T1:174:VAL:HA	21:T1:183:LYS:O	2.13	0.48
21:T2:118:VAL:O	21:T2:125:VAL:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:233:TYR:CG	24:W1:311:LEU:HD22	2.49	0.48
24:W2:102:MET:HE3	24:W2:163:PRO:HD2	1.95	0.48
24:W2:736:ASN:C	24:W2:738:ARG:H	2.21	0.48
25:X2:823:LYS:HD2	27:Z1:272:ILE:CA	2.41	0.48
27:Z1:57:LEU:HD22	27:Z1:109:PHE:HE2	1.59	0.48
27:Z1:62:HIS:NE2	27:Z1:107:ASP:OD1	2.46	0.48
27:Z2:381:ILE:HG22	27:Z2:381:ILE:O	2.12	0.48
27:Z2:428:TYR:CE1	27:Z2:435:SER:HG	1.71	0.48
1:A2:1201:ARG:NH2	1:A1:644:ALA:O	2.46	0.48
1:A2:1221:ILE:CB	1:A1:600:LYS:HG3	2.43	0.48
1:A2:1228:TYR:CD1	1:A1:643:ALA:HB2	2.49	0.48
1:A3:1055:ARG:NH2	1:A3:1058:GLU:OE1	2.46	0.48
7:G1:252:LEU:CD2	15:O2:244:GLU:H	2.25	0.48
7:G2:253:SER:N	15:O4:251:ILE:HB	2.29	0.48
9:I1:917:TYR:H	15:O1:195:LEU:CD1	2.16	0.48
9:I1:1049:LEU:HD11	14:N1:297:ALA:N	2.26	0.48
9:I2:888:GLU:CA	13:M3:591:ASP:O	2.56	0.48
9:I2:909:ARG:CB	13:M3:580:LYS:HZ1	2.26	0.48
10:J1:252:LEU:HD12	15:O1:273:ASP:OD2	2.09	0.48
13:M1:495:TRP:CG	14:N1:280:LEU:HD13	2.48	0.48
17:Q1:196:LEU:HB2	17:Q1:242:LEU:HD12	1.94	0.48
17:Q1:892:LEU:O	17:Q1:892:LEU:HD23	2.13	0.48
17:Q1:1070:LEU:HB2	17:Q1:1071:PRO:CD	2.34	0.48
17:Q2:589:GLU:HB2	17:Q2:692:GLU:OE2	2.13	0.48
17:Q2:670:THR:O	17:Q2:673:ILE:HG22	2.13	0.48
17:Q2:697:ASP:OD2	17:Q2:761:ASN:HB2	2.13	0.48
17:Q2:722:PHE:CZ	17:Q2:748:ILE:HB	2.48	0.48
17:Q2:781:TYR:HA	17:Q2:784:ASN:HD21	1.79	0.48
17:Q2:793:CYS:HA	17:Q2:796:ASN:ND2	2.27	0.48
17:Q2:1016:PHE:CE1	17:Q2:1065:VAL:CG1	2.97	0.48
17:Q2:1066:PHE:CE2	17:Q2:1140:VAL:CG2	2.97	0.48
17:Q2:1132:LYS:O	17:Q2:1136:THR:HG23	2.14	0.48
19:R2:543:VAL:HG12	19:R2:594:ILE:HD13	1.92	0.48
19:R2:706:GLN:O	19:R2:711:LEU:HD12	2.14	0.48
22:U2:311:SER:O	22:U2:319:LEU:HD12	2.13	0.48
24:W1:163:PRO:HA	24:W1:178:LEU:HA	1.95	0.48
24:W2:24:VAL:HG23	24:W2:93:ILE:HG23	1.95	0.48
24:W2:522:ASN:O	24:W2:526:ARG:HG3	2.13	0.48
25:X1:743:GLN:CA	25:X1:743:GLN:N	2.76	0.48
25:X2:665:TRP:CZ2	25:X2:669:LEU:CD1	2.87	0.48
25:X2:765:LEU:HD22	27:Z2:652:GLN:CD	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:774:ASN:CB	25:X2:794:ILE:C	2.68	0.48
26:Y1:1125:ASP:O	26:Y1:1126:LEU:CA	2.61	0.48
26:Y1:1367:LYS:O	26:Y1:1370:THR:OG1	2.30	0.48
26:Y1:1392:ARG:NE	27:Z1:690:ASP:OD2	2.46	0.48
26:Y2:1403:ARG:NH2	27:Z2:700:GLU:CD	2.71	0.48
27:Z1:179:VAL:HG21	27:Z1:206:PHE:CD2	2.35	0.48
27:Z1:184:ASP:OD1	27:Z1:197:LEU:CA	2.60	0.48
27:Z1:216:LEU:HD11	27:Z1:272:ILE:CG1	2.36	0.48
27:Z1:662:LEU:O	27:Z1:666:GLU:CG	2.52	0.48
27:Z2:13:PHE:HD1	27:Z2:445:LEU:HD22	1.75	0.48
27:Z2:415:GLU:OE2	27:Z2:452:SER:C	2.57	0.48
1:A2:1399:ARG:HB3	4:D1:872:LEU:CD1	2.35	0.48
1:A3:780:GLU:HG3	1:A3:822:ILE:CG2	2.43	0.48
4:D4:1048:MET:SD	4:D4:1106:LEU:HD12	2.53	0.48
6:F1:143:GLY:O	9:I1:1397:GLY:HA3	2.13	0.48
9:I2:1103:LEU:CD2	13:M3:614:ASP:CG	2.68	0.48
17:Q1:110:ILE:HG21	17:Q1:474:VAL:HG11	1.96	0.48
17:Q1:605:ARG:NH2	17:Q1:629:LEU:HD11	2.29	0.48
17:Q1:681:ILE:HD13	17:Q1:681:ILE:C	2.38	0.48
17:Q1:996:VAL:HG13	17:Q1:997:VAL:N	2.28	0.48
17:Q2:110:ILE:HG21	17:Q2:474:VAL:HG11	1.96	0.48
17:Q2:140:LEU:HD23	17:Q2:141:THR:C	2.39	0.48
17:Q2:396:LYS:O	17:Q2:396:LYS:HG3	2.14	0.48
17:Q2:399:ILE:O	17:Q2:399:ILE:HG23	2.13	0.48
17:Q2:700:GLU:OE2	17:Q2:757:LYS:HB2	2.13	0.48
17:Q2:891:ILE:HD11	19:R2:715:LEU:CD2	1.93	0.48
17:Q2:892:LEU:HD23	17:Q2:892:LEU:O	2.13	0.48
17:Q2:975:PHE:CD1	17:Q2:980:ILE:CD1	2.95	0.48
19:R2:661:PRO:HA	19:R2:705:PHE:CZ	2.49	0.48
19:R2:711:LEU:CB	19:R2:714:TYR:CE2	2.97	0.48
21:T1:12:ILE:HA	21:T1:28:SER:HA	1.96	0.48
22:U1:288:LEU:N	27:Z1:665:ILE:HG23	2.28	0.48
24:W1:160:VAL:HG23	24:W1:161:ARG:N	2.29	0.48
24:W2:233:TYR:CG	24:W2:311:LEU:HD22	2.49	0.48
25:X1:655:PHE:CZ	27:Z1:545:LEU:HB2	2.38	0.48
25:X1:679:LEU:CA	26:Y1:1281:MET:HE1	2.42	0.48
25:X2:665:TRP:HZ2	27:Z2:560:LEU:CD2	2.24	0.48
25:X2:690:GLN:HG2	27:Z2:7:LEU:HB3	1.93	0.48
25:X2:818:ILE:HD12	26:Y2:1405:GLN:OE1	2.14	0.48
27:Z1:34:ARG:HB3	27:Z1:95:TRP:CH2	2.48	0.48
27:Z1:97:TYR:HD1	27:Z2:626:GLY:H	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:428:TYR:CD2	27:Z1:428:TYR:O	2.66	0.48
27:Z2:302:ILE:HG22	27:Z2:317:VAL:HG12	1.95	0.48
29:b2:46:LYS:HB2	29:b2:59:VAL:HG22	1.96	0.48
1:A1:790:ASP:OD1	1:A1:790:ASP:N	2.35	0.48
1:A2:1222:ALA:N	1:A1:600:LYS:HG3	2.28	0.48
1:A2:1268:ASP:OD2	1:A1:729:SER:HB2	2.14	0.48
6:F2:135:VAL:CG1	9:I2:1337:ALA:HB2	2.44	0.48
9:I1:909:ARG:N	15:O1:205:ARG:CD	2.73	0.48
9:I2:1013:GLU:OE1	9:I2:1013:GLU:N	2.41	0.48
9:I2:1101:LEU:CA	15:O3:272:SER:HB2	2.42	0.48
17:Q1:399:ILE:O	17:Q1:399:ILE:HG23	2.13	0.48
17:Q1:448:SER:OG	17:Q1:545:TYR:HE1	1.96	0.48
17:Q1:697:ASP:OD1	17:Q1:698:PRO:HD3	2.13	0.48
17:Q1:700:GLU:OE2	17:Q1:757:LYS:HB2	2.13	0.48
17:Q1:722:PHE:CZ	17:Q1:748:ILE:HB	2.48	0.48
17:Q1:939:LEU:H	17:Q1:939:LEU:CD1	2.27	0.48
17:Q2:599:LYS:HD2	17:Q2:603:ILE:HD11	1.96	0.48
17:Q2:667:LEU:HD13	17:Q2:667:LEU:O	2.14	0.48
18:R1:590:LEU:CD2	18:R1:663:LEU:HD11	2.43	0.48
18:R1:628:PHE:CE1	18:R1:629:GLU:HG2	2.49	0.48
18:R1:714:TYR:CD1	18:R1:715:LEU:N	2.82	0.48
19:R2:157:ASP:OD1	19:R2:163:ARG:NH2	2.46	0.48
19:R2:349:SER:OG	19:R2:358:VAL:HG21	2.13	0.48
19:R2:532:ALA:HA	19:R2:535:ARG:CZ	2.44	0.48
20:S1:182:ARG:HD2	20:S1:449:GLN:OE1	2.13	0.48
20:S2:270:THR:OG1	20:S2:391:CYS:SG	2.72	0.48
23:V1:390:TRP:C	23:V1:393:PRO:HD2	2.39	0.48
24:W1:24:VAL:HG11	24:W1:143:ASN:HA	1.95	0.48
24:W2:4:LEU:HB2	24:W2:381:SER:HB2	1.96	0.48
25:X1:689:SER:HB3	26:Y1:1292:LYS:NZ	2.28	0.48
25:X1:714:PHE:CE1	27:Z1:609:LEU:HD21	2.47	0.48
25:X1:818:ILE:HD12	26:Y1:1405:GLN:OE1	2.14	0.48
25:X2:775:THR:HG23	25:X2:791:ILE:HD13	1.95	0.48
26:Y2:1221:VAL:HG22	27:Z2:536:LEU:CD2	2.42	0.48
27:Z1:129:LYS:HG2	27:Z1:145:LEU:CB	2.21	0.48
27:Z1:252:GLN:CD	27:Z1:335:MET:H	2.19	0.48
27:Z1:395:LYS:CE	27:Z2:267:PHE:N	2.68	0.48
27:Z1:417:ILE:O	27:Z1:418:ALA:CB	2.61	0.48
27:Z1:549:ILE:HG22	27:Z1:553:ILE:HD12	1.94	0.48
27:Z2:63:LEU:HG	27:Z2:65:LEU:HD23	1.96	0.48
27:Z2:241:THR:HB	27:Z2:246:LYS:HE2	0.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b1:81:ILE:O	29:b1:82:GLY:C	2.55	0.48
1:A2:1221:ILE:CG1	1:A1:596:ARG:C	2.87	0.47
6:F1:731:ASP:OD1	6:F1:732:VAL:N	2.45	0.47
6:F1:1833:ARG:HD3	14:N2:413:VAL:O	2.14	0.47
9:I1:910:LYS:NZ	13:M1:546:ARG:HH21	2.12	0.47
9:I1:1667:GLN:O	9:I2:1668:HIS:C	2.57	0.47
9:I2:1015:TYR:OH	9:I2:1089:TYR:O	2.32	0.47
9:I2:1051:LYS:HG2	14:N3:289:PHE:CD1	2.47	0.47
9:I2:1099:ARG:C	13:M3:611:LYS:HB2	2.39	0.47
15:O3:85:LYS:HD2	15:O3:94:ALA:HB2	1.96	0.47
17:Q1:63:GLU:CG	17:Q1:68:ILE:HG12	2.43	0.47
17:Q1:399:ILE:CD1	17:Q1:418:VAL:HG22	2.44	0.47
17:Q1:836:PHE:CD2	17:Q1:842:GLU:HG3	2.49	0.47
17:Q1:904:LYS:NZ	17:Q1:946:LYS:HD3	2.29	0.47
17:Q2:703:THR:CB	17:Q2:709:PHE:HB2	2.43	0.47
17:Q2:718:ILE:HD12	17:Q2:718:ILE:H	1.77	0.47
17:Q2:892:LEU:HD23	17:Q2:892:LEU:C	2.39	0.47
17:Q2:902:THR:HG23	17:Q2:903:LEU:N	2.28	0.47
17:Q2:907:THR:O	17:Q2:910:ASP:HB2	2.14	0.47
17:Q2:1003:VAL:HG23	17:Q2:1004:GLU:N	2.28	0.47
18:R1:465:ILE:HD11	18:R1:473:SER:HB3	1.96	0.47
18:R1:467:PHE:CD2	18:R1:468:LEU:HD12	2.44	0.47
18:R1:682:LYS:CG	18:R1:683:PHE:H	2.19	0.47
19:R2:508:MET:O	19:R2:511:ILE:HG22	2.13	0.47
19:R2:598:GLU:O	19:R2:601:GLN:HG2	2.14	0.47
20:S2:492:LEU:HD12	20:S2:508:ILE:HD13	1.96	0.47
24:W1:530:LYS:HG3	24:W1:746:CYS:N	2.28	0.47
25:X1:772:VAL:HG12	27:Z1:662:LEU:HD12	1.93	0.47
25:X1:793:LEU:HD21	27:Z1:680:TRP:CD1	2.23	0.47
25:X1:799:SER:O	26:Y1:1372:LYS:CA	2.29	0.47
25:X2:772:VAL:HG12	27:Z2:662:LEU:HD12	1.93	0.47
26:Y1:1122:ILE:HD13	29:b1:87:LEU:HD21	1.96	0.47
26:Y2:1122:ILE:HD11	29:b2:65:PHE:HE2	1.79	0.47
26:Y2:1317:TYR:CD1	27:Z1:49:LEU:CD1	2.97	0.47
27:Z1:132:PHE:CD1	27:Z1:142:ILE:HG12	2.49	0.47
27:Z1:307:ILE:HD13	27:Z1:371:GLY:HA2	1.96	0.47
27:Z1:403:ASN:N	27:Z1:404:PRO:HD2	2.29	0.47
27:Z2:30:GLN:O	27:Z2:33:THR:OG1	2.22	0.47
27:Z2:68:THR:C	27:Z2:84:ASN:HD21	2.22	0.47
27:Z2:153:MET:SD	27:Z2:211:PHE:CE2	2.95	0.47
29:b1:58:HIS:CE1	29:b2:69:VAL:HB	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b2:29:LYS:HE2	29:b2:81:ILE:HD13	1.95	0.47
1:A3:1396:GLY:O	4:D3:869:THR:HG23	2.02	0.47
4:D4:1031:ARG:O	4:D4:1034:SER:OG	2.27	0.47
9:I1:966:TRP:O	15:O1:181:HIS:HB2	2.12	0.47
9:I2:899:LEU:CD1	13:M3:583:ASP:N	2.78	0.47
9:I2:916:ALA:HB3	15:O3:190:ARG:CA	2.43	0.47
9:I2:924:ILE:N	15:O3:186:PHE:CD2	2.61	0.47
17:Q1:120:ILE:HG23	17:Q1:120:ILE:O	2.13	0.47
17:Q1:288:ASN:CA	17:Q1:333:ILE:HG22	2.44	0.47
17:Q1:405:GLU:OE1	17:Q1:405:GLU:HA	2.12	0.47
17:Q1:512:ILE:HG22	17:Q1:514:PHE:N	2.29	0.47
17:Q1:839:PHE:CG	17:Q1:840:PRO:HD2	2.49	0.47
17:Q2:73:GLN:CD	17:Q2:73:GLN:H	2.21	0.47
17:Q2:200:ILE:HD13	17:Q2:200:ILE:N	2.20	0.47
17:Q2:516:LEU:HB2	17:Q2:517:PRO:CD	2.39	0.47
17:Q2:1073:ASN:N	17:Q2:1073:ASN:HD22	2.11	0.47
18:R1:453:GLU:OE1	18:R1:453:GLU:HA	2.13	0.47
18:R1:706:GLN:O	18:R1:711:LEU:HD12	2.14	0.47
19:R2:628:PHE:CE1	19:R2:629:GLU:HG2	2.49	0.47
21:T1:38:VAL:O	21:T1:39:GLU:HG3	2.14	0.47
22:U1:296:LEU:HD11	27:Z1:653:GLN:HA	1.96	0.47
23:V2:417:ALA:HB1	23:V2:465:MET:HE1	1.96	0.47
25:X2:823:LYS:NZ	27:Z1:272:ILE:N	2.57	0.47
26:Y2:1450:GLY:HA2	27:Z2:328:PHE:CE1	2.49	0.47
27:Z1:68:THR:C	27:Z1:84:ASN:OD1	2.57	0.47
27:Z2:62:HIS:NE2	27:Z2:107:ASP:OD1	2.47	0.47
29:b2:65:PHE:CD2	29:b2:65:PHE:C	2.91	0.47
1:A2:1226:LEU:HD21	1:A1:646:ILE:N	2.29	0.47
1:A4:442:ARG:CZ	4:D3:1022:PRO:HD2	2.44	0.47
4:D2:1052:LEU:O	4:D2:1056:ARG:HG2	2.13	0.47
6:F1:1713:LEU:HD12	6:F1:1714:LEU:N	2.28	0.47
6:F2:136:ALA:CB	9:I2:1392:VAL:HG21	2.33	0.47
9:I1:900:ARG:HD2	13:M1:577:LEU:HG	1.96	0.47
9:I1:968:PRO:HG2	14:N1:301:LEU:HD23	1.96	0.47
9:I2:816:ASP:OD1	9:I2:817:ASP:N	2.42	0.47
9:I2:1051:LYS:C	9:I2:1052:LEU:HD12	2.40	0.47
9:I2:1167:ALA:CB	15:O3:270:THR:OG1	2.56	0.47
9:I2:1168:ALA:CA	15:O3:270:THR:CA	2.71	0.47
10:J1:252:LEU:HD22	15:O1:270:THR:HA	1.96	0.47
15:O4:85:LYS:HD2	15:O4:94:ALA:HB2	1.96	0.47
17:Q1:402:PRO:HB3	17:Q1:461:ASP:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:506:LYS:HD3	17:Q1:538:ILE:HD11	1.95	0.47
17:Q1:517:PRO:O	17:Q1:520:ILE:HG22	2.14	0.47
17:Q1:777:ILE:C	17:Q1:779:ASN:H	2.23	0.47
17:Q1:925:ASN:OD1	18:R1:692:SER:N	2.33	0.47
17:Q1:1094:TYR:CZ	17:Q1:1098:THR:HG21	2.48	0.47
17:Q2:72:LEU:HD12	17:Q2:110:ILE:HG21	1.92	0.47
17:Q2:89:TYR:HE1	17:Q2:398:LYS:HE3	1.77	0.47
17:Q2:509:ALA:HB2	17:Q2:570:PHE:CE1	2.49	0.47
17:Q2:534:THR:HA	17:Q2:537:GLU:HG2	1.95	0.47
17:Q2:709:PHE:CD1	17:Q2:709:PHE:N	2.82	0.47
17:Q2:781:TYR:HA	17:Q2:784:ASN:ND2	2.29	0.47
17:Q2:1149:ASN:HB3	17:Q2:1152:THR:HG1	1.78	0.47
18:R1:538:LEU:HB2	18:R1:546:LEU:CD1	2.40	0.47
18:R1:631:ILE:O	18:R1:631:ILE:HG23	2.13	0.47
18:R1:684:ILE:O	18:R1:684:ILE:HG13	2.13	0.47
19:R2:714:TYR:CD1	19:R2:715:LEU:N	2.82	0.47
20:S2:523:THR:HA	20:S2:526:HIS:HB2	1.95	0.47
22:U2:159:ILE:O	22:U2:161:PRO:HD3	2.15	0.47
23:V2:392:GLN:HB3	23:V2:393:PRO:HD3	1.96	0.47
24:W2:160:VAL:HG23	24:W2:161:ARG:H	1.79	0.47
24:W2:541:PRO:HD2	24:W2:544:MET:HE2	1.96	0.47
25:X2:648:LEU:HD21	27:Z2:535:PHE:HE1	1.79	0.47
25:X2:665:TRP:CZ3	25:X2:669:LEU:HD12	2.49	0.47
25:X2:687:GLU:N	27:Z2:8:SER:OG	2.44	0.47
25:X2:688:HIS:NE2	27:Z2:445:LEU:CD1	2.76	0.47
25:X2:778:LYS:CE	25:X2:794:ILE:CG1	2.87	0.47
25:X2:778:LYS:HD2	25:X2:792:GLN:HA	1.96	0.47
26:Y1:1305:GLN:CD	27:Z1:599:MET:CG	2.87	0.47
26:Y1:1335:SER:C	26:Y1:1339:PHE:CD1	2.92	0.47
26:Y1:1403:ARG:NH2	27:Z1:700:GLU:CD	2.71	0.47
27:Z1:133:HIS:CE1	27:Z1:211:PHE:CE1	2.99	0.47
27:Z2:81:CYS:HB2	27:Z2:132:PHE:HZ	1.70	0.47
27:Z2:208:PHE:HD1	27:Z2:211:PHE:H	1.58	0.47
27:Z2:403:ASN:N	27:Z2:404:PRO:HD2	2.30	0.47
1:A2:862:LEU:HD11	1:A2:904:GLN:CB	2.43	0.47
1:A2:1229:VAL:HG13	1:A1:640:LEU:N	2.19	0.47
1:A3:873:PRO:HB3	4:D1:532:LEU:HD21	1.92	0.47
1:A3:1332:ARG:CZ	4:D3:899:THR:CA	2.90	0.47
9:I1:922:ASP:HB3	15:O1:191:ARG:HG2	1.96	0.47
10:J1:252:LEU:CD2	15:O1:269:ILE:C	2.87	0.47
17:Q1:509:ALA:HB2	17:Q1:570:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:647:LYS:HA	17:Q1:647:LYS:HZ1	1.78	0.47
17:Q1:790:HIS:CG	17:Q1:814:LEU:CB	2.97	0.47
17:Q1:903:LEU:HD13	17:Q1:906:ILE:HD11	1.96	0.47
17:Q2:515:ASN:C	17:Q2:518:PRO:HD2	2.40	0.47
17:Q2:517:PRO:O	17:Q2:520:ILE:HG22	2.14	0.47
17:Q2:629:LEU:N	17:Q2:630:THR:CA	2.78	0.47
17:Q2:677:PHE:HE1	17:Q2:713:ASP:HB3	1.79	0.47
17:Q2:856:LYS:HB3	17:Q2:858:ASN:C	2.40	0.47
17:Q2:925:ASN:OD1	17:Q2:929:LEU:HD13	2.14	0.47
17:Q2:939:LEU:H	17:Q2:939:LEU:CD1	2.27	0.47
18:R1:431:ILE:HD12	18:R1:431:ILE:N	2.30	0.47
18:R1:445:CYS:HB3	18:R1:468:LEU:HD21	1.96	0.47
18:R1:661:PRO:HA	18:R1:705:PHE:CZ	2.49	0.47
19:R2:528:HIS:CE1	19:R2:576:ASN:HB3	2.50	0.47
19:R2:617:ILE:HG13	19:R2:670:LYS:HG2	1.96	0.47
20:S1:173:ILE:HD11	21:T1:43:HIS:CD2	2.50	0.47
20:S2:317:GLY:O	20:S2:320:SER:HB3	2.13	0.47
21:T1:181:LEU:HD23	21:T1:201:GLU:HG2	1.95	0.47
23:V1:186:ARG:HG3	23:V1:190:PHE:HB2	1.97	0.47
23:V2:186:ARG:HG3	23:V2:190:PHE:HB2	1.97	0.47
25:X2:755:LEU:CD1	26:Y2:1349:LEU:CG	2.92	0.47
26:Y1:1122:ILE:HD11	29:b1:67:SER:OG	2.15	0.47
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:CD2	2.97	0.47
27:Z1:137:TYR:N	27:Z1:217:LEU:HG	2.28	0.47
27:Z1:239:SER:C	27:Z1:241:THR:N	2.72	0.47
27:Z1:641:PHE:CE2	27:Z1:645:VAL:CG2	2.96	0.47
27:Z2:158:ASN:CB	27:Z2:161:GLU:CD	2.86	0.47
27:Z2:179:VAL:HG13	27:Z2:198:ASN:ND2	2.26	0.47
29:b2:54:GLY:O	29:b2:55:ASN:CA	2.61	0.47
1:A2:1036:ALA:HB1	1:A2:1043:ALA:HB2	1.95	0.47
1:A2:1221:ILE:N	1:A1:596:ARG:CA	2.67	0.47
1:A4:127:HIS:CE1	4:D3:1009:ARG:HB2	2.49	0.47
6:F2:1570:GLN:O	6:F2:1573:ASN:ND2	2.48	0.47
9:I1:1051:LYS:C	9:I1:1052:LEU:HD12	2.40	0.47
9:I1:1312:ASN:OD1	15:O1:265:ASN:OD1	2.32	0.47
9:I2:888:GLU:H	13:M3:594:LYS:CE	2.26	0.47
9:I2:892:HIS:HA	13:M3:588:MET:CA	2.44	0.47
9:I2:893:LEU:HD23	15:O3:244:GLU:HG2	1.95	0.47
9:I2:960:SER:HB2	16:P3:155:GLU:N	2.20	0.47
9:I2:1107:SER:HA	15:O3:280:GLU:CG	2.44	0.47
10:J1:240:GLY:O	10:J1:241:THR:OG1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:165:ILE:HD11	17:Q1:174:TYR:CD1	2.50	0.47
17:Q1:1132:LYS:O	17:Q1:1136:THR:HG23	2.13	0.47
17:Q2:272:ASN:H	17:Q2:272:ASN:ND2	2.10	0.47
17:Q2:715:LEU:C	17:Q2:717:CYS:H	2.22	0.47
17:Q2:790:HIS:CG	17:Q2:814:LEU:CB	2.97	0.47
17:Q2:904:LYS:NZ	17:Q2:946:LYS:HD3	2.29	0.47
17:Q2:1065:VAL:HB	17:Q2:1070:LEU:HD23	1.97	0.47
18:R1:532:ALA:HA	18:R1:535:ARG:CZ	2.44	0.47
18:R1:598:GLU:O	18:R1:601:GLN:HG2	2.14	0.47
22:U1:159:ILE:O	22:U1:161:PRO:HD3	2.15	0.47
22:U1:208:LEU:HD13	27:Z1:660:SER:CB	2.42	0.47
22:U1:209:PRO:HB3	27:Z1:662:LEU:HB2	1.92	0.47
22:U2:208:LEU:HD11	22:U2:231:ILE:HD11	1.96	0.47
23:V1:417:ALA:HB1	23:V1:465:MET:HE1	1.96	0.47
25:X2:691:ASN:HB3	27:Z2:431:TRP:HD1	0.51	0.47
26:Y1:1221:VAL:HG22	27:Z1:536:LEU:CD2	2.42	0.47
26:Y1:1406:VAL:O	26:Y1:1410:GLN:HG2	2.13	0.47
27:Z1:131:LEU:CB	27:Z1:187:PHE:HE2	2.27	0.47
27:Z1:137:TYR:CA	27:Z1:269:LYS:CD	2.85	0.47
27:Z2:16:SER:N	27:Z2:16:SER:C	2.69	0.47
27:Z2:149:ASP:OD1	27:Z2:182:ILE:HB	2.12	0.47
27:Z2:662:LEU:O	27:Z2:666:GLU:CG	2.52	0.47
29:b2:80:TYR:CD1	29:b2:85:ALA:HB2	2.43	0.47
6:F1:795:GLU:OE1	6:F1:795:GLU:N	2.42	0.47
6:F1:984:ALA:O	6:F1:988:ARG:NH1	2.48	0.47
6:F2:142:ALA:HB3	9:I2:1395:LEU:CD2	2.44	0.47
6:F2:984:ALA:O	6:F2:988:ARG:NH1	2.48	0.47
6:F2:1713:LEU:HD12	6:F2:1714:LEU:N	2.28	0.47
6:F2:1775:VAL:O	6:F2:1776:THR:HG22	2.14	0.47
7:G1:247:ASP:CA	15:O2:247:TRP:HH2	2.13	0.47
9:I1:912:VAL:CA	13:M1:541:LEU:CD2	2.92	0.47
9:I1:1363:GLU:HB2	15:O1:266:GLN:HE21	1.80	0.47
9:I2:1366:ARG:HD2	10:J2:256:GLN:NE2	2.30	0.47
13:M3:476:THR:HG1	14:N4:323:ARG:HD3	1.75	0.47
17:Q1:339:LEU:HD21	17:Q1:348:LEU:HB2	1.95	0.47
17:Q1:528:GLU:HB2	17:Q1:579:ILE:HG23	1.97	0.47
17:Q1:599:LYS:HD2	17:Q1:603:ILE:HD11	1.96	0.47
17:Q1:716:ASN:HA	17:Q1:719:ASN:HB3	1.96	0.47
17:Q1:753:PHE:O	17:Q1:757:LYS:HG3	2.15	0.47
17:Q1:892:LEU:HD23	17:Q1:892:LEU:C	2.40	0.47
17:Q1:1065:VAL:HB	17:Q1:1070:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:165:ILE:HD11	17:Q2:174:TYR:CD1	2.50	0.47
17:Q2:196:LEU:HB2	17:Q2:242:LEU:HD12	1.94	0.47
17:Q2:339:LEU:HD21	17:Q2:348:LEU:HB2	1.96	0.47
17:Q2:344:SER:O	17:Q2:347:PHE:HE1	1.96	0.47
17:Q2:346:LEU:CD1	17:Q2:367:ILE:HG23	2.44	0.47
17:Q2:528:GLU:HB2	17:Q2:579:ILE:HG23	1.97	0.47
17:Q2:557:LEU:HD11	17:Q2:598:ILE:CG2	2.42	0.47
17:Q2:616:LYS:HG2	17:Q2:630:THR:CG2	2.37	0.47
17:Q2:696:LEU:HD13	17:Q2:700:GLU:CG	2.38	0.47
17:Q2:725:PHE:CE1	17:Q2:741:GLY:HA2	2.50	0.47
17:Q2:836:PHE:HD2	17:Q2:842:GLU:CD	2.23	0.47
17:Q2:852:ILE:HD12	17:Q2:913:LYS:HD3	1.96	0.47
17:Q2:929:LEU:HD11	19:R2:695:ALA:CB	2.31	0.47
17:Q2:933:LEU:CD2	19:R2:712:LYS:N	2.78	0.47
17:Q2:936:LYS:HE2	17:Q2:943:THR:HG21	1.96	0.47
17:Q2:1078:LEU:N	17:Q2:1078:LEU:HD22	2.30	0.47
18:R1:664:LEU:HD13	18:R1:694:VAL:HG22	1.96	0.47
18:R1:677:LEU:HD13	18:R1:721:THR:OG1	2.13	0.47
19:R2:630:LEU:O	19:R2:633:THR:HA	2.14	0.47
19:R2:631:ILE:O	19:R2:631:ILE:HG23	2.13	0.47
20:S1:492:LEU:HD12	20:S1:508:ILE:HD13	1.96	0.47
21:T1:227:GLN:OE1	21:T1:256:VAL:HG11	2.15	0.47
22:U1:219:SER:HG	22:U1:312:TRP:HD1	1.62	0.47
22:U2:236:LYS:HG3	22:U2:306:GLU:OE1	2.15	0.47
24:W2:24:VAL:HG11	24:W2:143:ASN:HA	1.95	0.47
24:W2:967:PHE:HA	24:W2:978:ALA:HB2	1.95	0.47
25:X1:687:GLU:HG3	27:Z1:577:LEU:HD11	1.95	0.47
25:X1:714:PHE:CE2	26:Y1:1316:GLU:CB	2.96	0.47
25:X1:753:GLU:CA	25:X1:756:ASN:ND2	2.78	0.47
26:Y1:1211:LEU:HD13	26:Y1:1214:ILE:CG2	2.45	0.47
26:Y2:1362:LEU:CA	26:Y2:1387:LYS:CD	2.80	0.47
26:Y2:1365:ILE:CA	26:Y2:1383:ALA:O	2.53	0.47
26:Y2:1409:LEU:N	27:Z2:711:LYS:HZ3	2.11	0.47
27:Z1:97:TYR:HE1	27:Z2:626:GLY:C	2.22	0.47
27:Z1:101:GLU:O	27:Z1:102:ASP:C	2.54	0.47
27:Z1:127:ILE:HG13	27:Z1:127:ILE:O	2.15	0.47
27:Z2:12:ILE:CD1	27:Z2:54:TYR:HB3	2.42	0.47
27:Z2:68:THR:C	27:Z2:84:ASN:OD1	2.57	0.47
29:b2:9:PRO:HD2	29:b2:29:LYS:HZ2	1.61	0.47
1:A2:1090:SER:O	4:D1:1104:GLU:OE2	2.32	0.47
1:A2:1226:LEU:HD11	1:A1:646:ILE:N	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1200:ARG:HB2	1:A4:591:ASP:CG	2.19	0.47
1:A3:1222:ALA:HB1	1:A4:598:VAL:HB	1.91	0.47
6:F1:161:ALA:HB3	9:I1:1335:LYS:CA	2.11	0.47
6:F1:332:VAL:O	6:F1:336:ALA:N	2.48	0.47
6:F1:1775:VAL:O	6:F1:1776:THR:HG22	2.14	0.47
6:F2:158:PRO:HG3	9:I2:1341:GLN:CG	2.45	0.47
6:F2:1568:GLN:HA	6:F2:1571:VAL:HG22	1.96	0.47
9:I1:130:LYS:NZ	9:I1:237:GLU:OE1	2.45	0.47
9:I1:300:LEU:O	9:I1:300:LEU:HD23	2.14	0.47
9:I1:897:GLU:CA	13:M1:580:LYS:HG2	1.94	0.47
9:I2:906:GLY:C	13:M3:573:ARG:NH1	2.73	0.47
9:I2:963:LEU:N	16:P3:151:LYS:HD2	2.26	0.47
9:I2:981:VAL:HB	15:O3:171:ASP:O	2.14	0.47
9:I2:1030:ARG:NH2	13:M3:607:SER:C	2.73	0.47
9:I2:1370:VAL:CG2	10:J2:259:THR:HG21	2.41	0.47
10:J2:240:GLY:O	10:J2:241:THR:OG1	2.28	0.47
15:O2:85:LYS:HD2	15:O2:94:ALA:HB2	1.96	0.47
17:Q1:283:VAL:HG21	17:Q1:297:LEU:CD1	2.42	0.47
17:Q1:542:ASN:O	17:Q1:545:TYR:HB2	2.15	0.47
17:Q1:677:PHE:HE1	17:Q1:713:ASP:HB3	1.79	0.47
17:Q1:856:LYS:HB3	17:Q1:858:ASN:C	2.40	0.47
17:Q1:1078:LEU:N	17:Q1:1078:LEU:HD22	2.30	0.47
17:Q2:512:ILE:HG22	17:Q2:514:PHE:N	2.29	0.47
17:Q2:529:HIS:HA	17:Q2:532:LYS:HE2	1.97	0.47
17:Q2:827:THR:C	17:Q2:830:SER:HB2	2.40	0.47
17:Q2:855:LYS:O	17:Q2:856:LYS:HD2	2.15	0.47
17:Q2:975:PHE:CD1	17:Q2:980:ILE:HD12	2.42	0.47
17:Q2:1071:PRO:HG3	17:Q2:1155:VAL:HG21	1.97	0.47
18:R1:227:ILE:C	18:R1:229:ASN:H	2.22	0.47
18:R1:293:ILE:HD11	18:R1:327:VAL:HG21	1.97	0.47
18:R1:538:LEU:HD13	18:R1:546:LEU:HD12	1.97	0.47
18:R1:711:LEU:CB	18:R1:714:TYR:CE2	2.97	0.47
19:R2:8:GLN:O	19:R2:10:GLU:N	2.48	0.47
19:R2:86:ASN:C	19:R2:88:ASP:H	2.23	0.47
19:R2:660:THR:HG22	19:R2:661:PRO:HD3	1.93	0.47
20:S2:173:ILE:HD11	21:T2:43:HIS:CD2	2.50	0.47
21:T1:12:ILE:HG23	21:T1:27:CYS:O	2.15	0.47
21:T2:12:ILE:HA	21:T2:28:SER:HA	1.96	0.47
22:U1:34:LYS:HG2	22:U1:50:SER:HB2	1.95	0.47
25:X1:638:ASP:OD1	25:X1:639:ASP:HA	2.13	0.47
25:X1:655:PHE:HZ	27:Z1:545:LEU:CA	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:698:GLN:HA	25:X1:701:GLU:OE1	2.15	0.47
25:X1:795:LYS:HZ1	27:Z1:666:GLU:CB	2.19	0.47
26:Y1:1358:HIS:CD2	26:Y1:1362:LEU:HD21	2.50	0.47
26:Y1:1392:ARG:HD3	27:Z1:694:ILE:HG12	1.97	0.47
26:Y1:1412:GLU:HB3	26:Y1:1412:GLU:C	2.39	0.47
26:Y2:1317:TYR:CE2	27:Z1:48:VAL:O	2.67	0.47
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:CD2	2.98	0.47
26:Y2:1366:LEU:CA	26:Y2:1383:ALA:C	2.83	0.47
27:Z1:137:TYR:CD2	27:Z1:137:TYR:N	2.65	0.47
27:Z1:223:LEU:HD13	27:Z1:263:TRP:CD2	2.49	0.47
27:Z1:273:GLN:NE2	27:Z2:708:PHE:CZ	2.83	0.47
27:Z1:302:ILE:HG22	27:Z1:317:VAL:HG12	1.96	0.47
27:Z1:326:LEU:HD12	27:Z1:326:LEU:HA	1.74	0.47
27:Z1:441:SER:OG	27:Z1:444:THR:OG1	2.22	0.47
27:Z2:7:LEU:HD21	27:Z2:584:GLN:NE2	2.28	0.47
27:Z2:252:GLN:CD	27:Z2:335:MET:H	2.19	0.47
27:Z2:522:GLU:HG2	27:Z2:523:ASN:C	2.37	0.47
28:a1:972:ILE:HG12	28:a1:995:VAL:HG22	1.97	0.47
28:a2:1018:SER:HB3	28:a2:1023:ILE:HG13	1.96	0.47
29:b1:58:HIS:HB3	29:b2:69:VAL:HG12	1.96	0.47
29:b1:65:PHE:CD2	29:b1:65:PHE:C	2.92	0.47
29:b2:15:ASP:O	29:b2:74:GLY:HA2	2.15	0.47
29:b2:81:ILE:O	29:b2:82:GLY:C	2.56	0.47
1:A2:1229:VAL:HB	1:A1:640:LEU:HD23	1.26	0.47
9:I1:918:SER:C	15:O1:193:ALA:HB3	2.39	0.47
9:I1:960:SER:OG	16:P1:155:GLU:OE2	2.30	0.47
9:I2:892:HIS:CG	13:M3:591:ASP:OD2	2.62	0.47
9:I2:916:ALA:HB3	15:O3:193:ALA:H	1.70	0.47
17:Q1:290:GLY:O	17:Q1:312:ILE:HG12	2.14	0.47
17:Q1:334:TRP:HZ3	17:Q1:396:LYS:HB3	1.80	0.47
17:Q1:515:ASN:C	17:Q1:518:PRO:HD2	2.39	0.47
17:Q1:557:LEU:HD11	17:Q1:598:ILE:CG2	2.42	0.47
17:Q1:676:CYS:HA	17:Q1:679:ASP:OD1	2.14	0.47
17:Q1:811:LEU:HD22	17:Q1:811:LEU:O	2.15	0.47
17:Q1:925:ASN:OD1	17:Q1:929:LEU:HD13	2.14	0.47
17:Q2:527:ILE:HG12	17:Q2:530:ASP:H	1.80	0.47
17:Q2:676:CYS:HA	17:Q2:679:ASP:OD1	2.14	0.47
17:Q2:716:ASN:HA	17:Q2:719:ASN:HB3	1.96	0.47
17:Q2:811:LEU:HD22	17:Q2:811:LEU:O	2.15	0.47
17:Q2:839:PHE:CG	17:Q2:840:PRO:HD2	2.49	0.47
18:R1:157:ASP:OD1	18:R1:163:ARG:NH2	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S1:151:PHE:HB2	21:T1:259:ARG:NH1	2.30	0.47
20:S1:270:THR:OG1	20:S1:391:CYS:SG	2.72	0.47
22:U1:140:LEU:O	22:U1:142:PRO:HD3	2.15	0.47
22:U2:34:LYS:HG2	22:U2:50:SER:HB2	1.95	0.47
23:V1:152:LEU:HD22	23:V1:179:LEU:HD12	1.97	0.47
25:X1:776:PHE:CE2	26:Y1:1369:PHE:HE1	2.30	0.47
25:X1:795:LYS:HG3	27:Z1:665:ILE:HG22	0.53	0.47
25:X1:804:LEU:HD21	26:Y1:1392:ARG:HD3	1.97	0.47
25:X2:804:LEU:HD21	26:Y2:1392:ARG:HD3	1.97	0.47
26:Y1:1122:ILE:HD11	29:b1:65:PHE:CE2	2.49	0.47
26:Y1:1345:LEU:C	26:Y1:1348:LYS:HG2	2.39	0.47
26:Y1:1456:LEU:CB	26:Y1:1456:LEU:N	2.77	0.47
26:Y2:1277:LYS:NZ	27:Z2:568:CYS:HA	2.29	0.47
26:Y2:1335:SER:C	26:Y2:1339:PHE:CD1	2.92	0.47
27:Z1:26:ILE:HG22	27:Z1:440:MET:CG	2.39	0.47
27:Z1:63:LEU:HG	27:Z1:65:LEU:HD23	1.96	0.47
27:Z1:133:HIS:HE1	27:Z1:211:PHE:CD1	2.13	0.47
27:Z1:208:PHE:CE2	27:Z1:279:ALA:C	2.92	0.47
27:Z1:404:PRO:HD3	27:Z2:262:ASN:CB	2.30	0.47
27:Z1:426:LEU:HD21	27:Z1:439:LEU:CD2	2.45	0.47
27:Z2:179:VAL:HG21	27:Z2:206:PHE:CD2	2.35	0.47
29:b2:75:HIS:CG	29:b2:90:LYS:HB3	2.44	0.47
1:A3:1083:SER:O	4:D3:1095:ARG:CD	2.61	0.47
1:A3:1223:GLU:C	1:A4:594:LEU:HD23	2.16	0.47
4:D3:1088:MET:HE1	4:D3:1107:ALA:HA	1.96	0.47
7:G1:255:LEU:HB2	15:O2:243:LEU:O	2.14	0.47
9:I1:918:SER:HA	15:O1:193:ALA:C	2.38	0.47
9:I1:918:SER:HB3	15:O1:190:ARG:CA	2.22	0.47
9:I1:962:ILE:HD12	15:O1:184:ARG:H	1.70	0.47
9:I2:1103:LEU:H	13:M3:611:LYS:HE3	1.47	0.47
9:I2:1158:ALA:O	15:O3:266:GLN:CD	2.57	0.47
17:Q1:61:PHE:HE1	17:Q1:71:THR:OG1	1.98	0.47
17:Q1:1066:PHE:CE2	17:Q1:1140:VAL:CG2	2.97	0.47
17:Q2:290:GLY:O	17:Q2:312:ILE:HG12	2.14	0.47
17:Q2:605:ARG:NH2	17:Q2:629:LEU:HD11	2.29	0.47
17:Q2:903:LEU:HD13	17:Q2:906:ILE:HD11	1.96	0.47
17:Q2:1036:PHE:CE1	17:Q2:1090:LEU:HD23	2.50	0.47
18:R1:86:ASN:OD1	18:R1:400:ASN:ND2	2.48	0.47
19:R2:527:VAL:HA	19:R2:530:ILE:HG22	1.97	0.47
23:V1:223:TYR:HA	23:V1:226:GLN:HB2	1.96	0.47
23:V2:223:TYR:HA	23:V2:226:GLN:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:V2:262:ILE:HG12	23:V2:289:ILE:HG23	1.96	0.47
24:W1:570:LEU:O	24:W1:574:LEU:HB2	2.15	0.47
24:W1:967:PHE:HA	24:W1:978:ALA:HB2	1.96	0.47
25:X1:790:ASN:HA	27:Z1:680:TRP:CZ2	2.49	0.47
25:X2:743:GLN:N	25:X2:744:ALA:N	2.59	0.47
25:X2:821:ILE:HG21	26:Y2:1409:LEU:HD13	1.94	0.47
26:Y1:1277:LYS:NZ	27:Z1:568:CYS:HA	2.29	0.47
26:Y2:1317:TYR:CE2	26:Y2:1318:LEU:HD23	2.50	0.47
27:Z1:209:TYR:CE1	27:Z1:335:MET:HA	2.26	0.47
27:Z2:47:ASN:HD21	27:Z2:95:TRP:CH2	1.66	0.47
27:Z2:69:PHE:CA	27:Z2:84:ASN:CG	2.72	0.47
27:Z2:132:PHE:CD1	27:Z2:142:ILE:HG12	2.50	0.47
27:Z2:184:ASP:OD1	27:Z2:197:LEU:CA	2.60	0.47
28:a1:1018:SER:HB3	28:a1:1023:ILE:HG13	1.96	0.47
29:b1:50:ASP:OD1	29:b1:55:ASN:O	2.33	0.47
29:b2:56:THR:HG21	29:b2:92:ALA:CA	2.45	0.47
4:D4:464:ARG:HD2	4:D4:803:LEU:O	2.15	0.47
7:G2:252:LEU:HB3	15:O4:248:SER:CA	2.45	0.47
7:G2:252:LEU:HD12	15:O4:251:ILE:CD1	2.45	0.47
7:G2:254:ASN:HB2	15:O4:256:TYR:HB2	1.97	0.47
9:I1:912:VAL:CG2	15:O1:198:ARG:NH2	2.73	0.47
9:I1:925:LEU:HB3	15:O1:183:VAL:O	2.15	0.47
9:I1:976:ARG:O	15:O1:174:LEU:HA	2.15	0.47
9:I1:1046:HIS:HD1	15:O1:167:ASN:HD21	1.63	0.47
9:I1:1366:ARG:HD2	10:J1:256:GLN:NE2	2.30	0.47
9:I2:809:HIS:HA	15:O3:241:SER:HA	1.82	0.47
9:I2:961:ARG:HB2	16:P3:155:GLU:O	2.14	0.47
9:I2:968:PRO:HG2	14:N3:300:ALA:CB	2.32	0.47
15:O2:108:VAL:N	15:O2:109:PRO:CD	2.78	0.47
17:Q1:600:PHE:CZ	17:Q1:675:LEU:HB3	2.50	0.47
17:Q1:725:PHE:CE1	17:Q1:741:GLY:HA2	2.50	0.47
17:Q1:798:LYS:HZ3	17:Q1:822:ASP:HB3	1.77	0.47
17:Q1:1071:PRO:HB2	17:Q1:1146:TYR:HE2	1.79	0.47
17:Q2:288:ASN:OD1	17:Q2:332:LYS:HD3	2.15	0.47
17:Q2:399:ILE:CD1	17:Q2:418:VAL:HG22	2.44	0.47
17:Q2:753:PHE:O	17:Q2:757:LYS:HG3	2.15	0.47
17:Q2:933:LEU:HD23	19:R2:712:LYS:N	2.30	0.47
19:R2:222:VAL:O	20:S2:256:VAL:HG13	2.15	0.47
19:R2:667:LEU:CD1	19:R2:671:LEU:HG	2.44	0.47
23:V2:322:THR:HG23	23:V2:329:ARG:HD3	1.97	0.47
25:X1:800:HIS:CD2	27:Z1:694:ILE:CD1	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:821:ILE:HG21	26:Y1:1409:LEU:HD13	1.94	0.47
26:Y1:1305:GLN:HG2	27:Z1:599:MET:HG2	1.97	0.47
26:Y1:1317:TYR:CE2	26:Y1:1318:LEU:HD23	2.49	0.47
26:Y2:1317:TYR:HA	27:Z1:49:LEU:O	2.15	0.47
26:Y2:1382:VAL:C	26:Y2:1382:VAL:CA	2.87	0.47
27:Z1:136:SER:O	27:Z1:217:LEU:HD12	2.02	0.47
27:Z2:127:ILE:HG13	27:Z2:127:ILE:O	2.15	0.47
27:Z2:196:CYS:N	27:Z2:206:PHE:O	2.25	0.47
27:Z2:549:ILE:HG22	27:Z2:553:ILE:HD12	1.94	0.47
4:D2:1019:ARG:NE	4:D2:1079:GLU:OE1	2.49	0.46
4:D3:529:TYR:OH	4:D3:533:ARG:NH1	2.48	0.46
4:D4:1088:MET:HE1	4:D4:1107:ALA:HA	1.96	0.46
6:F1:142:ALA:HB3	9:I1:1395:LEU:H	0.53	0.46
6:F2:139:GLN:CG	9:I2:1340:LEU:CD2	2.93	0.46
7:G2:251:TYR:N	15:O4:251:ILE:CG2	2.76	0.46
9:I2:809:HIS:NE2	15:O3:243:LEU:CD1	2.78	0.46
9:I2:956:ILE:O	16:P3:151:LYS:CE	2.64	0.46
9:I2:1100:ILE:HG13	13:M3:610:SER:O	2.16	0.46
17:Q1:228:ILE:HD11	17:Q1:248:LEU:CB	2.46	0.46
17:Q1:417:LEU:CD1	17:Q1:465:LEU:HB2	2.44	0.46
17:Q1:715:LEU:C	17:Q1:717:CYS:H	2.22	0.46
17:Q1:820:THR:HG23	17:Q1:821:LEU:N	2.29	0.46
17:Q1:867:GLN:H	17:Q1:870:VAL:HG23	1.79	0.46
17:Q2:542:ASN:HD21	17:Q2:564:PHE:HB2	1.80	0.46
17:Q2:600:PHE:CZ	17:Q2:675:LEU:HB3	2.50	0.46
17:Q2:693:LEU:HD11	17:Q2:761:ASN:HD21	1.80	0.46
17:Q2:814:LEU:HD12	17:Q2:815:VAL:CA	2.44	0.46
17:Q2:1144:LYS:HB3	17:Q2:1146:TYR:CD1	2.38	0.46
18:R1:222:VAL:O	20:S1:256:VAL:HG13	2.15	0.46
18:R1:650:GLU:O	18:R1:654:GLU:HG3	2.16	0.46
19:R2:705:PHE:HD2	19:R2:710:LYS:HB3	1.80	0.46
20:S2:352:ASP:HB3	20:S2:355:ILE:HD13	1.97	0.46
21:T2:227:GLN:OE1	21:T2:256:VAL:HG11	2.15	0.46
23:V2:522:MET:HE1	23:V2:538:ILE:HD12	1.98	0.46
25:X2:695:GLN:H	27:Z2:431:TRP:HB3	1.80	0.46
25:X2:698:GLN:HA	25:X2:701:GLU:OE1	2.15	0.46
26:Y1:1437:VAL:CG2	26:Y2:1429:LYS:CE	2.89	0.46
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:CB	2.78	0.46
26:Y2:1321:MET:HA	27:Z1:47:ASN:O	2.00	0.46
26:Y2:1345:LEU:C	26:Y2:1348:LYS:HG2	2.39	0.46
27:Z1:216:LEU:O	27:Z1:269:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:218:LEU:CD1	27:Z1:223:LEU:HD23	2.18	0.46
27:Z1:534:GLU:HB2	27:Z2:545:LEU:HA	1.90	0.46
27:Z2:34:ARG:CB	27:Z2:95:TRP:CH2	2.98	0.46
27:Z2:317:VAL:O	27:Z2:324:LEU:CD1	2.54	0.46
1:A3:1331:GLU:CB	4:D3:872:LEU:O	2.53	0.46
4:D3:916:ILE:HD11	4:D3:1049:TRP:NE1	2.31	0.46
6:F1:156:LEU:O	9:I1:1341:GLN:HG2	2.15	0.46
6:F1:302:PRO:O	6:F1:355:ARG:NE	2.48	0.46
6:F1:1052:CYS:C	9:I1:1388:GLU:OE2	2.57	0.46
6:F1:1267:ARG:HG3	15:O2:251:ILE:O	2.14	0.46
9:I1:925:LEU:H	15:O1:187:ASN:ND2	2.13	0.46
9:I1:1584:LEU:HD21	10:J1:275:PHE:CE1	2.50	0.46
9:I2:902:GLN:CG	13:M3:576:LYS:O	2.59	0.46
9:I2:922:ASP:O	15:O3:186:PHE:C	2.57	0.46
17:Q1:272:ASN:H	17:Q1:272:ASN:ND2	2.10	0.46
17:Q1:519:GLU:HA	17:Q1:519:GLU:OE1	2.15	0.46
17:Q1:629:LEU:N	17:Q1:630:THR:CA	2.78	0.46
17:Q1:667:LEU:HD13	17:Q1:667:LEU:O	2.14	0.46
17:Q2:63:GLU:CG	17:Q2:68:ILE:HG12	2.43	0.46
17:Q2:294:THR:HG21	17:Q2:308:ILE:HG12	1.93	0.46
17:Q2:313:TYR:O	17:Q2:316:ILE:HG12	2.16	0.46
17:Q2:394:LYS:HG2	17:Q2:395:PHE:N	2.27	0.46
17:Q2:519:GLU:OE1	17:Q2:519:GLU:HA	2.15	0.46
17:Q2:660:SER:O	17:Q2:663:GLN:HB2	2.15	0.46
18:R1:144:TRP:CH2	18:R1:158:LEU:HA	2.51	0.46
18:R1:159:ASP:OD2	20:S1:319:LEU:HB2	2.16	0.46
18:R1:660:THR:HG22	18:R1:661:PRO:HD3	1.93	0.46
18:R1:711:LEU:HG	18:R1:714:TYR:CE2	2.47	0.46
19:R2:144:TRP:CH2	19:R2:158:LEU:HA	2.51	0.46
20:S1:304:VAL:HG13	20:S1:323:ILE:HG22	1.97	0.46
20:S1:352:ASP:HB3	20:S1:355:ILE:HD13	1.97	0.46
22:U1:236:LYS:HG3	22:U1:306:GLU:OE1	2.15	0.46
23:V1:533:GLU:H	23:V1:533:GLU:HG2	1.46	0.46
24:W1:4:LEU:HB2	24:W1:381:SER:HB2	1.97	0.46
24:W1:541:PRO:HD2	24:W1:544:MET:HE2	1.96	0.46
25:X1:755:LEU:CD1	26:Y1:1349:LEU:CG	2.92	0.46
25:X2:637:LEU:C	27:Z2:528:PHE:HE1	2.21	0.46
25:X2:693:ILE:HD11	26:Y2:1292:LYS:HG2	1.98	0.46
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CZ2	2.90	0.46
26:Y2:1392:ARG:HD3	27:Z2:694:ILE:HG12	1.97	0.46
27:Z1:197:LEU:HB2	27:Z1:302:ILE:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:360:ILE:HG23	27:Z1:375:VAL:HG13	1.98	0.46
27:Z1:605:LEU:O	27:Z1:609:LEU:HG	2.15	0.46
27:Z2:197:LEU:HB2	27:Z2:302:ILE:HG23	1.96	0.46
29:b1:27:ILE:HG22	29:b1:45:VAL:CG1	2.44	0.46
1:A3:1204:TRP:HD1	1:A4:595:GLU:OE1	1.96	0.46
1:A3:1332:ARG:CG	4:D3:899:THR:HG22	2.36	0.46
4:D1:1088:MET:HE1	4:D1:1107:ALA:HA	1.96	0.46
6:F1:163:ASP:H	9:I1:1331:LYS:CG	2.08	0.46
6:F2:302:PRO:O	6:F2:355:ARG:NE	2.48	0.46
9:I1:843:GLU:CB	13:M1:535:GLU:HA	2.46	0.46
9:I2:813:ILE:HG23	15:O3:237:PRO:O	1.99	0.46
9:I2:925:LEU:CD1	15:O3:186:PHE:H	2.25	0.46
9:I2:976:ARG:CZ	16:P3:141:ALA:HB3	2.45	0.46
9:I2:1032:THR:CG2	13:M3:618:GLN:HG2	2.45	0.46
15:O1:108:VAL:N	15:O1:109:PRO:CD	2.78	0.46
15:O4:108:VAL:N	15:O4:109:PRO:CD	2.78	0.46
17:Q1:140:LEU:HD23	17:Q1:141:THR:CA	2.46	0.46
17:Q1:170:SER:CB	17:Q1:200:ILE:CD1	2.93	0.46
17:Q1:396:LYS:O	17:Q1:396:LYS:HG3	2.14	0.46
17:Q1:756:PHE:CE2	17:Q1:760:ILE:CD1	2.98	0.46
17:Q1:855:LYS:O	17:Q1:856:LYS:HD2	2.14	0.46
17:Q2:170:SER:CB	17:Q2:200:ILE:CD1	2.93	0.46
17:Q2:334:TRP:HZ3	17:Q2:396:LYS:HB3	1.80	0.46
17:Q2:542:ASN:O	17:Q2:545:TYR:HB2	2.15	0.46
17:Q2:704:SER:CA	17:Q2:707:PRO:HD2	2.46	0.46
17:Q2:867:GLN:H	17:Q2:870:VAL:HG23	1.80	0.46
17:Q2:922:LEU:HD13	19:R2:689:ALA:N	2.31	0.46
17:Q2:1016:PHE:CZ	17:Q2:1070:LEU:HD21	2.45	0.46
18:R1:207:SER:O	18:R1:211:ILE:HG13	2.15	0.46
18:R1:465:ILE:CD1	18:R1:473:SER:CB	2.93	0.46
18:R1:480:THR:HG23	18:R1:481:GLN:N	2.30	0.46
20:S1:431:ASN:HB2	20:S1:434:LYS:HB3	1.96	0.46
22:U1:196:ARG:HH11	22:U1:202:LEU:HD21	1.78	0.46
24:W1:526:ARG:NE	24:W1:740:PHE:CB	2.78	0.46
24:W2:247:ASP:O	24:W2:251:PHE:N	2.46	0.46
25:X1:708:GLU:CG	27:Z1:598:LEU:HD21	2.29	0.46
25:X1:714:PHE:CE1	25:X1:718:THR:OG1	2.69	0.46
26:Y1:1383:ALA:H	26:Y2:1364:ASN:ND2	2.07	0.46
27:Z1:280:LYS:CE	27:Z1:340:ASP:OD1	2.63	0.46
27:Z2:120:GLU:C	27:Z2:124:LYS:HE2	2.40	0.46
27:Z2:151:ILE:HD12	27:Z2:167:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:871:ASN:HB3	4:D1:515:ASN:HB3	1.95	0.46
4:D2:464:ARG:HD2	4:D2:803:LEU:O	2.15	0.46
4:D4:529:TYR:OH	4:D4:533:ARG:NH1	2.49	0.46
6:F1:689:ARG:O	6:F1:699:ARG:N	2.40	0.46
6:F2:731:ASP:OD1	6:F2:732:VAL:N	2.45	0.46
6:F2:1571:VAL:O	6:F2:1574:ILE:HG13	2.16	0.46
9:I1:904:GLU:OE1	13:M1:573:ARG:HD2	2.15	0.46
9:I1:924:ILE:CA	15:O1:187:ASN:ND2	2.74	0.46
9:I1:961:ARG:NH2	16:P1:158:THR:O	2.49	0.46
9:I2:288:ILE:O	9:I2:292:GLY:N	2.46	0.46
9:I2:1109:LEU:HB2	15:O3:284:LYS:CE	2.45	0.46
10:J1:257:THR:OG1	14:N1:428:ASP:OD2	2.23	0.46
17:Q1:704:SER:CA	17:Q1:707:PRO:HD2	2.46	0.46
17:Q1:814:LEU:CD1	17:Q1:815:VAL:HG12	2.46	0.46
17:Q1:986:ILE:HG21	17:Q1:1102:PHE:HE1	1.81	0.46
17:Q1:1144:LYS:HB3	17:Q1:1146:TYR:CD1	2.38	0.46
17:Q2:89:TYR:CE1	17:Q2:398:LYS:HE3	2.51	0.46
17:Q2:288:ASN:CA	17:Q2:333:ILE:HG22	2.44	0.46
17:Q2:657:LEU:HD23	17:Q2:657:LEU:N	2.28	0.46
17:Q2:756:PHE:CE2	17:Q2:760:ILE:CD1	2.98	0.46
17:Q2:986:ILE:HG21	17:Q2:1102:PHE:HE1	1.81	0.46
18:R1:436:LEU:HA	18:R1:448:ILE:O	2.14	0.46
18:R1:705:PHE:HD2	18:R1:710:LYS:HB3	1.80	0.46
19:R2:701:ILE:HA	19:R2:704:LEU:HD23	1.98	0.46
20:S2:360:LYS:HG3	20:S2:366:PRO:HA	1.97	0.46
22:U1:295:GLU:HA	27:Z1:658:LEU:CG	2.42	0.46
23:V2:159:ILE:HG12	23:V2:175:LEU:CB	2.39	0.46
24:W2:570:LEU:O	24:W2:574:LEU:HB2	2.15	0.46
25:X1:717:LYS:HB3	26:Y1:1320:LEU:CD1	2.28	0.46
25:X2:695:GLN:CG	27:Z2:431:TRP:CA	2.75	0.46
27:Z1:58:ASN:ND2	27:Z1:60:SER:OG	2.47	0.46
27:Z1:128:LYS:CE	27:Z1:147:GLU:CB	2.77	0.46
27:Z1:182:ILE:HD12	27:Z1:198:ASN:CG	2.41	0.46
27:Z1:300:THR:N	27:Z1:318:SER:O	2.31	0.46
27:Z1:577:LEU:O	27:Z1:581:PHE:CD2	2.69	0.46
27:Z2:52:SER:O	27:Z2:53:LEU:CD2	2.64	0.46
27:Z2:131:LEU:CB	27:Z2:187:PHE:HE2	2.27	0.46
27:Z2:441:SER:OG	27:Z2:444:THR:OG1	2.22	0.46
1:A2:1220:PRO:HB2	1:A1:599:ARG:HE	1.26	0.46
4:D1:464:ARG:HD2	4:D1:803:LEU:O	2.15	0.46
6:F1:166:THR:H	9:I1:1331:LYS:HZ2	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:1049:GLN:CB	9:I1:1388:GLU:N	2.77	0.46
6:F1:1265:GLN:CA	15:O2:252:VAL:HA	2.26	0.46
6:F2:332:VAL:O	6:F2:336:ALA:N	2.48	0.46
9:I1:910:LYS:CE	13:M1:546:ARG:HH21	2.27	0.46
9:I1:1046:HIS:O	15:O1:171:ASP:OD2	2.33	0.46
9:I1:1048:GLU:HG2	15:O1:167:ASN:C	2.35	0.46
9:I2:965:ALA:N	16:P3:152:LYS:CB	2.76	0.46
9:I2:965:ALA:N	16:P3:152:LYS:HB2	2.30	0.46
9:I2:1048:GLU:C	16:P3:141:ALA:CA	2.75	0.46
17:Q1:693:LEU:HD11	17:Q1:761:ASN:HD21	1.80	0.46
17:Q1:697:ASP:O	17:Q1:701:VAL:HG23	2.16	0.46
17:Q1:827:THR:C	17:Q1:830:SER:HB2	2.40	0.46
17:Q1:849:GLU:O	17:Q1:853:LYS:HG2	2.16	0.46
17:Q1:906:ILE:CD1	17:Q1:923:HIS:CD2	2.99	0.46
17:Q1:971:ILE:HG22	17:Q1:972:CYS:O	2.16	0.46
17:Q1:988:VAL:HG13	17:Q1:989:GLU:N	2.31	0.46
17:Q2:140:LEU:HD23	17:Q2:141:THR:CA	2.45	0.46
17:Q2:782:ASP:O	17:Q2:786:LEU:HD22	2.15	0.46
17:Q2:820:THR:HG23	17:Q2:821:LEU:N	2.29	0.46
17:Q2:960:ILE:HA	17:Q2:963:LYS:HE2	1.95	0.46
18:R1:431:ILE:H	18:R1:431:ILE:CD1	2.28	0.46
18:R1:468:LEU:O	18:R1:469:ARG:HB2	2.16	0.46
18:R1:530:ILE:HG23	18:R1:531:ILE:N	2.30	0.46
18:R1:714:TYR:CD1	18:R1:714:TYR:C	2.94	0.46
19:R2:431:ILE:HD12	19:R2:431:ILE:N	2.30	0.46
20:S2:178:THR:HG22	20:S2:180:LEU:H	1.81	0.46
20:S2:570:MET:CB	21:T2:85:GLU:HA	2.45	0.46
21:T2:12:ILE:HG23	21:T2:27:CYS:O	2.15	0.46
22:U1:16:VAL:HG12	22:U1:63:TRP:HD1	1.80	0.46
25:X2:714:PHE:CE1	25:X2:718:THR:OG1	2.69	0.46
26:Y2:1305:GLN:CD	27:Z2:599:MET:CG	2.87	0.46
26:Y2:1305:GLN:HG2	27:Z2:599:MET:HG2	1.98	0.46
27:Z1:85:ASP:O	27:Z1:127:ILE:HG12	2.16	0.46
27:Z1:328:PHE:O	27:Z1:349:VAL:N	2.38	0.46
27:Z1:634:ILE:O	27:Z1:638:ILE:CG1	2.63	0.46
27:Z2:133:HIS:NE2	27:Z2:213:PRO:HD3	2.31	0.46
27:Z2:294:LEU:HD11	27:Z2:325:ILE:CD1	2.43	0.46
27:Z2:328:PHE:O	27:Z2:349:VAL:N	2.39	0.46
27:Z2:634:ILE:O	27:Z2:638:ILE:CG1	2.63	0.46
29:b1:16:ILE:HG13	29:b1:21:LYS:HE3	1.79	0.46
1:A2:1204:TRP:NE1	1:A1:598:VAL:C	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:615:TYR:CD2	4:D4:641:CYS:HB3	2.51	0.46
4:D4:1019:ARG:NE	4:D4:1079:GLU:OE1	2.49	0.46
6:F1:179:GLU:CD	9:I1:1207:PRO:HB3	2.39	0.46
6:F2:138:ILE:C	9:I2:1391:THR:HG21	2.40	0.46
9:I2:888:GLU:OE1	13:M3:595:MET:C	2.50	0.46
17:Q1:528:GLU:HB2	17:Q1:579:ILE:CG2	2.46	0.46
17:Q1:660:SER:O	17:Q1:663:GLN:HB2	2.16	0.46
17:Q1:867:GLN:HG3	17:Q1:869:ASP:N	2.09	0.46
17:Q1:928:LYS:NZ	18:R1:695:ALA:HB1	2.30	0.46
17:Q2:228:ILE:HD11	17:Q2:248:LEU:CB	2.45	0.46
17:Q2:332:LYS:CE	17:Q2:352:TYR:HE2	2.23	0.46
17:Q2:334:TRP:CZ3	17:Q2:396:LYS:HB3	2.50	0.46
17:Q2:598:ILE:HG23	17:Q2:599:LYS:N	2.31	0.46
17:Q2:988:VAL:HG13	17:Q2:989:GLU:N	2.31	0.46
18:R1:8:GLN:O	18:R1:10:GLU:N	2.48	0.46
18:R1:711:LEU:CB	18:R1:714:TYR:HE2	2.29	0.46
19:R2:86:ASN:OD1	19:R2:400:ASN:ND2	2.48	0.46
19:R2:207:SER:O	19:R2:211:ILE:HG13	2.16	0.46
21:T2:191:ALA:C	21:T2:193:THR:H	2.23	0.46
22:U2:346:THR:C	23:V2:51:MET:HB3	2.41	0.46
24:W1:247:ASP:HB2	24:W1:254:ILE:HG13	1.98	0.46
25:X1:648:LEU:HD21	27:Z1:535:PHE:HE1	1.79	0.46
27:Z1:34:ARG:CB	27:Z1:95:TRP:CH2	2.98	0.46
27:Z1:52:SER:O	27:Z1:53:LEU:CD2	2.63	0.46
27:Z1:68:THR:C	27:Z1:84:ASN:HD21	2.22	0.46
27:Z1:197:LEU:CD2	27:Z1:302:ILE:HG23	2.42	0.46
27:Z1:209:TYR:HE2	27:Z1:333:MET:C	2.23	0.46
27:Z2:316:CYS:SG	27:Z2:326:LEU:CD1	3.04	0.46
28:a2:1060:PRO:HG3	28:a2:1080:HIS:CG	2.50	0.46
29:b2:15:ASP:O	29:b2:74:GLY:CA	2.64	0.46
29:b2:42:ALA:HB1	29:b2:59:VAL:O	2.15	0.46
1:A2:1196:GLU:O	1:A1:592:ASP:N	2.48	0.46
1:A2:1331:GLU:O	4:D1:903:ILE:CG1	2.53	0.46
1:A3:945:ARG:NH2	9:I2:817:ASP:N	2.64	0.46
4:D1:529:TYR:OH	4:D1:533:ARG:NH1	2.49	0.46
4:D1:1075:LEU:HD22	4:D1:1075:LEU:O	2.15	0.46
4:D2:529:TYR:OH	4:D2:533:ARG:NH1	2.48	0.46
4:D4:1075:LEU:HD22	4:D4:1075:LEU:O	2.15	0.46
6:F2:1267:ARG:NH2	15:O4:263:GLN:H	2.13	0.46
9:I1:893:LEU:CD1	13:M1:587:GLU:CD	2.89	0.46
9:I1:910:LYS:O	13:M1:545:GLU:OE2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1667:GLN:CD	9:I2:1669:ARG:CB	2.23	0.46
9:I2:976:ARG:HD3	14:N3:297:ALA:HB2	1.97	0.46
17:Q1:94:ILE:O	17:Q1:94:ILE:HG12	2.14	0.46
17:Q1:529:HIS:HA	17:Q1:532:LYS:HE2	1.97	0.46
17:Q1:658:PHE:HB2	17:Q1:659:PRO:HD3	1.98	0.46
17:Q1:782:ASP:O	17:Q1:786:LEU:HD22	2.15	0.46
17:Q1:984:PHE:HD1	17:Q1:1008:MET:CE	2.29	0.46
17:Q2:601:ASN:C	17:Q2:603:ILE:H	2.24	0.46
17:Q2:697:ASP:O	17:Q2:701:VAL:HG23	2.16	0.46
17:Q2:906:ILE:HG13	17:Q2:907:THR:N	2.31	0.46
18:R1:528:HIS:CE1	18:R1:576:ASN:HB3	2.50	0.46
19:R2:532:ALA:HB2	19:R2:535:ARG:NH2	2.31	0.46
19:R2:664:LEU:HD13	19:R2:694:VAL:HG22	1.96	0.46
20:S2:151:PHE:HB2	21:T2:259:ARG:NH1	2.30	0.46
20:S2:375:GLU:C	20:S2:377:GLU:H	2.24	0.46
21:T1:18:ASP:OD1	21:T1:18:ASP:N	2.46	0.46
21:T1:95:HIS:NE2	21:T1:138:PRO:HB3	2.31	0.46
22:U1:297:LEU:HA	27:Z1:654:ASP:CG	2.27	0.46
22:U2:312:TRP:CE2	22:U2:319:LEU:HD13	2.50	0.46
23:V1:392:GLN:HB3	23:V1:393:PRO:HD3	1.97	0.46
25:X1:751:LEU:CD1	27:Z1:638:ILE:CG1	2.60	0.46
25:X2:794:ILE:HG13	25:X2:795:LYS:N	2.31	0.46
26:Y2:1270:LEU:HD21	27:Z2:564:LEU:HG	1.97	0.46
26:Y2:1317:TYR:HD1	27:Z1:49:LEU:CD1	2.28	0.46
27:Z1:316:CYS:SG	27:Z1:326:LEU:CD1	3.04	0.46
27:Z1:356:LEU:CD1	27:Z1:358:ARG:NH2	2.61	0.46
27:Z2:31:ASN:HA	27:Z2:368:GLU:CD	2.23	0.46
27:Z2:128:LYS:CE	27:Z2:147:GLU:CB	2.77	0.46
27:Z2:131:LEU:CB	27:Z2:187:PHE:CE2	2.99	0.46
27:Z2:216:LEU:O	27:Z2:269:LYS:HG2	2.15	0.46
27:Z2:327:LEU:HD13	27:Z2:348:LEU:HD13	1.98	0.46
29:b2:51:VAL:O	29:b2:51:VAL:CG1	2.62	0.46
1:A2:1224:PRO:HD3	1:A1:595:GLU:C	2.37	0.46
1:A2:1225:PRO:HB3	1:A1:594:LEU:HD13	1.67	0.46
1:A3:1180:ARG:NH1	6:F2:795:GLU:CD	2.73	0.46
1:A3:1223:GLU:CB	1:A4:644:ALA:HA	2.46	0.46
4:D1:1019:ARG:NE	4:D1:1079:GLU:OE1	2.49	0.46
4:D2:839:ASP:OD2	4:D2:947:SER:CB	2.64	0.46
4:D2:916:ILE:HD11	4:D2:1049:TRP:NE1	2.31	0.46
4:D2:1088:MET:HE1	4:D2:1107:ALA:HA	1.96	0.46
4:D4:977:GLU:N	4:D4:978:PRO:HD2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:1133:ARG:NH2	6:F1:1194:ASP:OD1	2.49	0.46
6:F1:1570:GLN:O	6:F1:1573:ASN:ND2	2.48	0.46
6:F1:1571:VAL:O	6:F1:1574:ILE:HG13	2.16	0.46
6:F2:1569:VAL:HG23	6:F2:1570:GLN:N	2.31	0.46
9:I2:976:ARG:HD3	14:N3:297:ALA:N	2.30	0.46
9:I2:1048:GLU:CD	14:N3:289:PHE:CE2	2.92	0.46
15:O2:90:HIS:N	15:O2:91:PRO:CD	2.79	0.46
17:Q1:100:ASN:OD1	17:Q1:105:VAL:HG13	2.16	0.46
17:Q1:268:VAL:HG12	17:Q1:335:ASP:HA	1.98	0.46
17:Q1:288:ASN:OD1	17:Q1:332:LYS:HD3	2.15	0.46
17:Q1:527:ILE:HG12	17:Q1:530:ASP:H	1.80	0.46
17:Q1:743:LEU:HA	17:Q1:746:VAL:HG12	1.97	0.46
17:Q1:992:LYS:HG3	17:Q1:993:SER:N	2.30	0.46
17:Q1:1071:PRO:HG3	17:Q1:1155:VAL:HG21	1.97	0.46
17:Q2:610:LEU:CD1	17:Q2:614:TRP:CZ3	2.96	0.46
17:Q2:814:LEU:CD1	17:Q2:815:VAL:HG12	2.46	0.46
17:Q2:836:PHE:CD2	17:Q2:842:GLU:HG3	2.49	0.46
17:Q2:971:ILE:HG22	17:Q2:972:CYS:O	2.16	0.46
18:R1:527:VAL:HA	18:R1:530:ILE:HG22	1.97	0.46
19:R2:219:LEU:HD22	19:R2:227:ILE:HG12	1.98	0.46
19:R2:530:ILE:HG23	19:R2:531:ILE:N	2.30	0.46
22:U2:296:LEU:HD21	22:U2:299:GLU:HG3	1.98	0.46
23:V1:226:GLN:O	23:V1:230:VAL:HG23	2.15	0.46
23:V2:141:ASN:C	23:V2:145:ASN:HD22	2.24	0.46
23:V2:152:LEU:HD22	23:V2:179:LEU:HD12	1.97	0.46
25:X1:655:PHE:CE2	27:Z1:546:GLY:N	2.84	0.46
25:X1:714:PHE:HE2	26:Y1:1313:ALA:HA	1.80	0.46
25:X2:775:THR:CB	25:X2:794:ILE:HD12	2.25	0.46
25:X2:818:ILE:HD12	26:Y2:1405:GLN:HG3	1.75	0.46
26:Y1:1306:ILE:O	26:Y1:1310:VAL:CG2	2.50	0.46
27:Z1:123:PRO:CD	27:Z1:124:LYS:HG2	2.42	0.46
27:Z1:182:ILE:HD12	27:Z1:197:LEU:O	2.16	0.46
27:Z1:196:CYS:N	27:Z1:206:PHE:O	2.25	0.46
27:Z1:542:ALA:H	27:Z2:551:ASN:CA	2.28	0.46
27:Z2:14:GLN:HA	27:Z2:15:ALA:CB	2.44	0.46
27:Z2:316:CYS:HB3	27:Z2:324:LEU:HD11	1.98	0.46
27:Z2:429:ILE:CB	27:Z2:436:ASN:OD1	2.43	0.46
27:Z2:577:LEU:O	27:Z2:581:PHE:CD2	2.69	0.46
27:Z2:625:HIS:HE1	27:Z2:629:LYS:HG3	1.80	0.46
28:a1:1060:PRO:HG3	28:a1:1080:HIS:CG	2.50	0.46
29:b1:15:ASP:O	29:b1:15:ASP:CG	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1221:ILE:CB	1:A1:600:LYS:CG	2.94	0.46
4:D3:977:GLU:N	4:D3:978:PRO:HD2	2.31	0.46
4:D3:1019:ARG:NE	4:D3:1079:GLU:OE1	2.49	0.46
4:D3:1075:LEU:HD22	4:D3:1075:LEU:O	2.15	0.46
6:F1:1569:VAL:HG23	6:F1:1570:GLN:N	2.31	0.46
6:F2:1133:ARG:NH2	6:F2:1194:ASP:OD1	2.49	0.46
9:I1:504:ALA:CB	9:I1:508:LEU:HD23	2.46	0.46
9:I2:895:ARG:HG2	13:M3:585:LEU:C	2.40	0.46
9:I2:1049:LEU:HB2	14:N3:293:LYS:C	2.41	0.46
17:Q1:836:PHE:HD2	17:Q1:842:GLU:CD	2.23	0.46
17:Q1:1036:PHE:CE1	17:Q1:1090:LEU:HD23	2.50	0.46
17:Q2:100:ASN:OD1	17:Q2:105:VAL:HG13	2.16	0.46
17:Q2:280:THR:HG23	17:Q2:280:THR:O	2.16	0.46
17:Q2:475:LEU:HD12	17:Q2:475:LEU:N	2.31	0.46
18:R1:86:ASN:C	18:R1:88:ASP:H	2.22	0.46
18:R1:532:ALA:HB2	18:R1:535:ARG:NH2	2.30	0.46
19:R2:530:ILE:HD11	19:R2:549:PHE:O	2.16	0.46
20:S2:392:TYR:O	20:S2:394:GLN:N	2.44	0.46
21:T1:257:LEU:HA	21:T1:273:GLY:HA2	1.98	0.46
22:U1:204:VAL:O	27:Z1:668:GLU:OE1	2.31	0.46
22:U1:208:LEU:HD11	22:U1:231:ILE:HD11	1.97	0.46
22:U2:16:VAL:HG12	22:U2:63:TRP:HD1	1.81	0.46
22:U2:144:ASP:C	22:U2:146:ARG:H	2.24	0.46
23:V1:249:LEU:O	23:V1:253:VAL:HG23	2.15	0.46
23:V2:226:GLN:O	23:V2:230:VAL:HG23	2.15	0.46
24:W2:490:VAL:HG22	24:W2:590:GLN:HG3	1.98	0.46
25:X1:700:ILE:HD13	26:Y1:1295:VAL:HG12	1.98	0.46
25:X2:655:PHE:CE2	27:Z2:546:GLY:N	2.84	0.46
25:X2:676:ILE:HD11	26:Y2:1274:ASN:HD21	1.75	0.46
25:X2:692:LYS:HE2	27:Z2:46:TYR:CE2	2.50	0.46
26:Y2:1358:HIS:CD2	26:Y2:1362:LEU:HD21	2.51	0.46
27:Z2:182:ILE:HD12	27:Z2:197:LEU:O	2.16	0.46
1:A2:1194:HIS:O	1:A1:591:ASP:OD1	2.34	0.46
1:A2:1284:ASN:HD22	1:A1:635:ARG:HB2	1.72	0.46
1:A3:1084:ARG:HG2	4:D3:1095:ARG:HE	1.81	0.46
4:D4:839:ASP:OD2	4:D4:947:SER:CB	2.64	0.46
4:D4:1077:MET:SD	4:D4:1077:MET:N	2.89	0.46
6:F1:137:ASN:H	9:I1:1389:GLN:HG2	1.49	0.46
9:I1:965:ALA:HB3	15:O1:182:THR:C	2.41	0.46
9:I1:1046:HIS:CE1	15:O1:171:ASP:OD2	2.67	0.46
15:O3:108:VAL:N	15:O3:109:PRO:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:280:THR:HG23	17:Q1:280:THR:O	2.16	0.46
17:Q1:313:TYR:O	17:Q1:316:ILE:HG12	2.15	0.46
17:Q1:334:TRP:CZ3	17:Q1:396:LYS:HB3	2.50	0.46
17:Q1:366:ILE:CD1	17:Q1:377:ILE:CD1	2.94	0.46
17:Q1:451:ASN:OD1	17:Q1:556:HIS:CE1	2.68	0.46
17:Q1:598:ILE:HG23	17:Q1:599:LYS:N	2.31	0.46
17:Q1:725:PHE:CD1	17:Q1:744:LYS:HE3	2.50	0.46
17:Q1:725:PHE:CD2	17:Q1:744:LYS:HG3	2.50	0.46
17:Q1:814:LEU:HD12	17:Q1:815:VAL:HG13	1.98	0.46
17:Q2:69:VAL:CG1	17:Q2:477:PHE:CD1	2.96	0.46
17:Q2:327:ALA:C	17:Q2:330:THR:HG22	2.41	0.46
17:Q2:417:LEU:CD1	17:Q2:465:LEU:HB2	2.44	0.46
17:Q2:528:GLU:HB2	17:Q2:579:ILE:CG2	2.46	0.46
17:Q2:612:ASP:CA	17:Q2:642:PHE:HE1	2.29	0.46
17:Q2:684:GLU:HA	17:Q2:688:THR:HG1	1.77	0.46
17:Q2:705:LYS:HZ1	17:Q2:710:ILE:HG21	1.80	0.46
17:Q2:743:LEU:HA	17:Q2:746:VAL:HG12	1.97	0.46
17:Q2:777:ILE:C	17:Q2:779:ASN:H	2.23	0.46
17:Q2:843:PHE:CE1	17:Q2:875:PHE:HZ	2.22	0.46
17:Q2:984:PHE:HD1	17:Q2:1008:MET:CE	2.29	0.46
17:Q2:992:LYS:HG3	17:Q2:993:SER:N	2.29	0.46
18:R1:527:VAL:HG23	18:R1:580:PHE:CG	2.51	0.46
19:R2:293:ILE:HD11	19:R2:327:VAL:HG21	1.97	0.46
19:R2:431:ILE:H	19:R2:431:ILE:CD1	2.28	0.46
20:S1:178:THR:HG22	20:S1:180:LEU:H	1.81	0.46
21:T2:16:VAL:HG21	21:T2:59:VAL:O	2.16	0.46
22:U2:79:LYS:HG2	22:U2:109:GLY:C	2.41	0.46
25:X1:693:ILE:HD11	26:Y1:1292:LYS:HG2	1.98	0.46
25:X1:721:LEU:CB	27:Z1:612:ILE:HD13	2.46	0.46
26:Y2:1122:ILE:C	29:b1:39:ARG:HH11	2.23	0.46
26:Y2:1123:GLN:HG3	29:b1:39:ARG:CB	2.42	0.46
26:Y2:1221:VAL:CG1	27:Z2:536:LEU:CD2	2.83	0.46
26:Y2:1294:LYS:CD	27:Z2:588:TRP:NE1	2.45	0.46
27:Z1:131:LEU:CB	27:Z1:187:PHE:CE2	2.99	0.46
27:Z1:352:GLU:OE1	27:Z1:410:PHE:HE2	1.62	0.46
27:Z2:209:TYR:HE2	27:Z2:333:MET:C	2.23	0.46
27:Z2:344:TYR:C	27:Z2:346:ASN:H	2.24	0.46
27:Z2:592:LEU:HD22	27:Z2:595:GLN:OE1	2.16	0.46
27:Z2:605:LEU:O	27:Z2:609:LEU:HG	2.15	0.46
29:b2:46:LYS:HE2	29:b2:58:HIS:HA	1.97	0.46
1:A2:1328:ARG:HB3	4:D1:976:ARG:HH11	0.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:615:TYR:CD2	4:D1:641:CYS:HB3	2.51	0.45
4:D1:839:ASP:OD2	4:D1:947:SER:CB	2.64	0.45
4:D1:977:GLU:N	4:D1:978:PRO:HD2	2.31	0.45
6:F1:138:ILE:HG22	9:I1:1391:THR:C	2.42	0.45
9:I1:913:ALA:O	13:M1:541:LEU:CD2	2.64	0.45
9:I1:919:ALA:CB	15:O1:190:ARG:NH1	2.73	0.45
9:I1:1359:ASP:CG	15:O1:264:ILE:CA	2.76	0.45
9:I2:915:ALA:CB	15:O3:193:ALA:C	2.88	0.45
9:I2:976:ARG:CA	14:N3:297:ALA:N	2.46	0.45
14:N1:284:PRO:HA	14:N1:287:VAL:HG12	1.98	0.45
14:N3:267:GLU:HB2	14:N4:334:LEU:O	1.99	0.45
17:Q1:657:LEU:HD23	17:Q1:657:LEU:N	2.28	0.45
17:Q1:696:LEU:CD1	17:Q1:700:GLU:CG	2.94	0.45
17:Q2:268:VAL:HG12	17:Q2:335:ASP:HA	1.98	0.45
17:Q2:294:THR:HG23	17:Q2:294:THR:O	2.16	0.45
17:Q2:313:TYR:C	17:Q2:313:TYR:CD1	2.95	0.45
17:Q2:600:PHE:CD1	17:Q2:600:PHE:C	2.94	0.45
17:Q2:725:PHE:CD1	17:Q2:744:LYS:HE3	2.50	0.45
17:Q2:814:LEU:HD12	17:Q2:815:VAL:HG12	1.98	0.45
17:Q2:866:GLN:CA	17:Q2:870:VAL:HG23	2.43	0.45
18:R1:479:THR:HB	18:R1:483:VAL:HG21	1.97	0.45
18:R1:482:ARG:CB	18:R1:516:TRP:CZ2	2.94	0.45
18:R1:653:TYR:C	18:R1:653:TYR:CD1	2.94	0.45
18:R1:707:SER:O	18:R1:711:LEU:HB2	2.16	0.45
20:S1:156:THR:HG22	20:S1:514:ARG:CD	2.45	0.45
23:V1:322:THR:HG23	23:V1:329:ARG:HD3	1.97	0.45
23:V1:522:MET:HE1	23:V1:538:ILE:HD12	1.98	0.45
23:V2:268:SER:HB2	23:V2:269:ASP:OD1	2.16	0.45
26:Y1:1409:LEU:N	27:Z1:711:LYS:HZ3	2.12	0.45
26:Y2:1126:LEU:HD23	29:b2:63:LYS:CE	2.46	0.45
27:Z1:63:LEU:HG	27:Z1:65:LEU:CD2	2.46	0.45
27:Z1:210:PRO:C	27:Z1:211:PHE:CA	2.72	0.45
27:Z1:325:ILE:CG2	27:Z1:327:LEU:CD2	2.94	0.45
27:Z1:362:SER:OG	27:Z1:376:ILE:HD12	2.17	0.45
27:Z2:182:ILE:HD13	27:Z2:198:ASN:CG	2.41	0.45
27:Z2:343:VAL:O	27:Z2:346:ASN:HB2	2.16	0.45
27:Z2:360:ILE:HG23	27:Z2:375:VAL:HG13	1.97	0.45
27:Z2:362:SER:OG	27:Z2:376:ILE:HD12	2.17	0.45
4:D2:930:VAL:HG21	4:D2:940:ALA:HB3	1.99	0.45
6:F1:138:ILE:HG22	9:I1:1392:VAL:CA	2.46	0.45
6:F1:535:ILE:CG1	6:F1:536:PRO:HD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:252:LEU:HB3	15:O4:248:SER:HA	1.97	0.45
9:I1:1426:SER:CB	10:J1:263:MET:SD	3.04	0.45
9:I2:968:PRO:HA	16:P3:149:ARG:HB2	1.98	0.45
9:I2:976:ARG:HH12	16:P3:141:ALA:CB	2.22	0.45
9:I2:1033:PRO:HB3	13:M3:614:ASP:O	2.10	0.45
9:I2:1048:GLU:HA	14:N3:293:LYS:HD3	1.99	0.45
9:I2:1107:SER:HA	15:O3:280:GLU:HB3	1.71	0.45
10:J1:252:LEU:HD23	15:O1:270:THR:HA	1.97	0.45
17:Q1:89:TYR:CE1	17:Q1:398:LYS:HE3	2.51	0.45
17:Q1:601:ASN:C	17:Q1:603:ILE:H	2.24	0.45
17:Q1:612:ASP:CA	17:Q1:642:PHE:HE1	2.29	0.45
17:Q1:811:LEU:CD1	17:Q1:814:LEU:CD2	2.94	0.45
17:Q1:922:LEU:HD23	18:R1:688:LEU:HD22	1.96	0.45
17:Q2:332:LYS:CB	17:Q2:352:TYR:CE2	2.94	0.45
17:Q2:352:TYR:CD1	17:Q2:352:TYR:C	2.94	0.45
17:Q2:498:VAL:HG13	17:Q2:499:ASP:N	2.31	0.45
17:Q2:528:GLU:CB	17:Q2:579:ILE:CD1	2.94	0.45
19:R2:159:ASP:OD2	20:S2:319:LEU:HB2	2.16	0.45
19:R2:650:GLU:O	19:R2:654:GLU:HG3	2.16	0.45
19:R2:714:TYR:CD1	19:R2:714:TYR:C	2.94	0.45
21:T2:16:VAL:HG23	21:T2:59:VAL:HG23	1.98	0.45
22:U1:79:LYS:HG2	22:U1:109:GLY:C	2.41	0.45
23:V1:268:SER:HB2	23:V1:269:ASP:OD1	2.16	0.45
23:V1:268:SER:O	23:V1:272:PRO:HG2	2.16	0.45
23:V2:249:LEU:O	23:V2:253:VAL:HG23	2.15	0.45
25:X2:695:GLN:N	27:Z2:431:TRP:CB	2.79	0.45
26:Y1:1123:GLN:N	29:b2:39:ARG:CD	2.50	0.45
26:Y2:1229:MET:HE2	26:Y2:1233:ARG:HH12	1.82	0.45
27:Z1:131:LEU:HB3	27:Z1:187:PHE:HE2	1.81	0.45
27:Z1:182:ILE:HD13	27:Z1:198:ASN:CG	2.41	0.45
27:Z1:343:VAL:O	27:Z1:346:ASN:HB2	2.16	0.45
27:Z1:344:TYR:C	27:Z1:346:ASN:H	2.24	0.45
27:Z2:68:THR:C	27:Z2:84:ASN:CG	2.84	0.45
27:Z2:123:PRO:CA	27:Z2:123:PRO:N	2.78	0.45
27:Z2:131:LEU:HB3	27:Z2:187:PHE:HE2	1.81	0.45
27:Z2:263:TRP:CD1	27:Z2:270:VAL:HG23	2.51	0.45
27:Z2:578:ARG:HA	27:Z2:581:PHE:HD2	1.81	0.45
27:Z2:669:THR:C	27:Z2:669:THR:HG22	2.42	0.45
28:a1:1009:VAL:HG13	28:a1:1046:GLY:O	2.17	0.45
1:A3:1327:VAL:HG23	4:D3:872:LEU:CB	2.41	0.45
1:A4:773:PHE:CZ	1:A4:818:LEU:HD12	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D2:1075:LEU:HD22	4:D2:1075:LEU:O	2.15	0.45
5:E3:67:ASP:HA	6:F2:1658:TYR:OH	2.13	0.45
6:F1:982:PRO:HB3	9:I1:1455:ARG:HB2	1.96	0.45
9:I2:886:LEU:HA	13:M3:594:LYS:HD3	1.85	0.45
10:J2:249:ASP:CA	14:N3:428:ASP:OD1	2.65	0.45
14:N2:284:PRO:HA	14:N2:287:VAL:HG12	1.98	0.45
14:N4:284:PRO:HA	14:N4:287:VAL:HG12	1.98	0.45
17:Q1:313:TYR:HA	17:Q1:316:ILE:HG12	1.98	0.45
17:Q1:327:ALA:C	17:Q1:330:THR:HG22	2.41	0.45
17:Q1:362:ILE:HD12	17:Q1:362:ILE:O	2.17	0.45
17:Q1:746:VAL:HG22	17:Q1:750:TYR:CE2	2.41	0.45
17:Q1:975:PHE:CD1	17:Q1:980:ILE:CD1	2.95	0.45
17:Q2:631:THR:HG23	17:Q2:634:VAL:CG1	2.45	0.45
17:Q2:792:LEU:HD12	17:Q2:792:LEU:N	2.32	0.45
17:Q2:836:PHE:CD2	17:Q2:842:GLU:CD	2.95	0.45
17:Q2:847:LEU:CD2	17:Q2:875:PHE:HD2	2.19	0.45
17:Q2:849:GLU:O	17:Q2:853:LYS:HG2	2.15	0.45
17:Q2:1016:PHE:HD2	17:Q2:1064:ARG:HH21	1.63	0.45
18:R1:284:SER:O	18:R1:288:ILE:HG12	2.16	0.45
18:R1:314:ILE:HD12	20:S1:309:LYS:HE3	1.98	0.45
18:R1:445:CYS:CB	18:R1:468:LEU:HD23	2.46	0.45
19:R2:284:SER:O	19:R2:288:ILE:HG12	2.16	0.45
19:R2:527:VAL:HG23	19:R2:580:PHE:CG	2.51	0.45
19:R2:711:LEU:CB	19:R2:714:TYR:HE2	2.29	0.45
21:T1:16:VAL:HG21	21:T1:59:VAL:O	2.16	0.45
22:U2:208:LEU:HD11	22:U2:231:ILE:CD1	2.46	0.45
24:W1:130:THR:O	24:W1:150:PHE:HA	2.17	0.45
24:W2:623:LEU:HD23	24:W2:623:LEU:HA	1.74	0.45
25:X1:643:LYS:HB3	25:X1:647:GLN:HE21	1.81	0.45
25:X2:643:LYS:HB3	25:X2:647:GLN:HE21	1.81	0.45
25:X2:704:GLN:O	25:X2:708:GLU:HG3	2.16	0.45
25:X2:815:GLU:CB	26:Y2:1402:LEU:CD2	2.43	0.45
26:Y1:1335:SER:HB2	26:Y1:1339:PHE:CZ	2.50	0.45
26:Y1:1383:ALA:HB3	26:Y2:1364:ASN:HB2	1.79	0.45
26:Y2:1294:LYS:HE2	27:Z2:588:TRP:CD1	2.33	0.45
27:Z2:184:ASP:CG	27:Z2:302:ILE:HG12	2.42	0.45
27:Z2:699:GLU:O	27:Z2:703:GLN:HG3	2.16	0.45
28:a2:1038:PRO:C	28:a2:1040:ARG:H	2.24	0.45
1:A3:1402:ASP:HB3	4:D3:821:GLU:CD	2.39	0.45
4:D2:615:TYR:CD2	4:D2:641:CYS:HB3	2.51	0.45
4:D3:464:ARG:HD2	4:D3:803:LEU:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:138:ILE:CA	9:I1:1392:VAL:CG2	2.54	0.45
6:F2:1832:ASN:OD1	6:F2:1833:ARG:HG3	2.16	0.45
9:I1:1083:GLU:OE1	9:I1:1083:GLU:N	2.42	0.45
9:I2:914:ASN:HD21	15:O3:194:GLU:CD	2.21	0.45
9:I2:967:SER:HB2	16:P3:145:SER:C	2.35	0.45
9:I2:1026:TYR:HH	13:M3:608:LYS:CG	2.03	0.45
9:I2:1028:CYS:C	13:M3:613:ASP:CG	2.84	0.45
9:I2:1109:LEU:CB	15:O3:284:LYS:CE	2.93	0.45
9:I2:1361:ALA:O	9:I2:1365:ALA:N	2.50	0.45
17:Q1:216:PRO:HD2	17:Q1:281:ARG:CZ	2.46	0.45
17:Q1:527:ILE:CG1	17:Q1:530:ASP:CB	2.95	0.45
17:Q1:615:GLU:HA	17:Q1:645:ILE:HG12	1.98	0.45
17:Q1:709:PHE:N	17:Q1:709:PHE:HD1	2.14	0.45
17:Q1:715:LEU:O	17:Q1:716:ASN:HB3	2.16	0.45
17:Q1:814:LEU:HD12	17:Q1:815:VAL:CA	2.44	0.45
17:Q2:888:ILE:HG23	17:Q2:889:GLN:N	2.30	0.45
17:Q2:1155:VAL:HG23	17:Q2:1155:VAL:O	2.16	0.45
18:R1:613:ILE:HG23	18:R1:614:PRO:CD	2.43	0.45
18:R1:667:LEU:HD13	18:R1:671:LEU:HG	1.98	0.45
19:R2:254:ALA:O	20:S2:315:LYS:NZ	2.40	0.45
21:T1:191:ALA:C	21:T1:193:THR:H	2.24	0.45
21:T2:116:LEU:O	21:T2:127:VAL:HA	2.16	0.45
22:U1:144:ASP:C	22:U1:146:ARG:H	2.24	0.45
22:U1:312:TRP:CE2	22:U1:319:LEU:HD13	2.50	0.45
23:V1:97:ARG:NH2	23:V1:411:SER:O	2.50	0.45
23:V2:268:SER:O	23:V2:272:PRO:HG2	2.16	0.45
25:X1:795:LYS:CG	27:Z1:665:ILE:HG21	2.32	0.45
27:Z1:68:THR:C	27:Z1:84:ASN:CG	2.84	0.45
27:Z1:184:ASP:CG	27:Z1:302:ILE:HG12	2.42	0.45
27:Z1:226:ILE:HG22	27:Z1:256:VAL:HG11	1.99	0.45
27:Z2:38:ILE:HG12	27:Z2:43:ILE:CD1	2.47	0.45
27:Z2:93:VAL:O	27:Z2:94:PRO:CG	2.53	0.45
27:Z2:129:LYS:HZ3	27:Z2:185:LEU:CB	2.06	0.45
27:Z2:226:ILE:HG22	27:Z2:256:VAL:HG11	1.99	0.45
27:Z2:239:SER:C	27:Z2:241:THR:N	2.72	0.45
27:Z2:363:LEU:HG	27:Z2:373:LEU:CD1	2.40	0.45
28:a2:972:ILE:HG12	28:a2:995:VAL:HG22	1.97	0.45
1:A3:1399:ARG:NH2	4:D3:866:PHE:HA	2.29	0.45
4:D1:916:ILE:HD11	4:D1:1049:TRP:NE1	2.31	0.45
4:D2:977:GLU:N	4:D2:978:PRO:HD2	2.31	0.45
4:D4:916:ILE:HD11	4:D4:1049:TRP:NE1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:138:ILE:CB	9:I1:1392:VAL:HG22	2.09	0.45
6:F1:138:ILE:N	9:I1:1392:VAL:CB	2.78	0.45
6:F1:511:ALA:O	6:F1:1008:TYR:N	2.43	0.45
6:F1:1643:CYS:SG	6:F1:1644:ASP:N	2.90	0.45
9:I1:978:LYS:CD	13:M1:524:GLU:HG2	2.46	0.45
9:I2:504:ALA:CB	9:I2:508:LEU:HD23	2.46	0.45
9:I2:978:LYS:HG3	15:O3:177:HIS:HD2	1.80	0.45
9:I2:1031:ALA:O	13:M3:618:GLN:HG3	2.16	0.45
9:I2:1107:SER:N	13:M3:615:PRO:CG	2.79	0.45
14:N3:264:ARG:HG2	14:N4:334:LEU:CD2	2.26	0.45
17:Q1:718:ILE:CG2	17:Q1:722:PHE:CE1	2.95	0.45
17:Q1:836:PHE:CD2	17:Q1:842:GLU:CD	2.95	0.45
17:Q1:866:GLN:CA	17:Q1:870:VAL:HG23	2.43	0.45
17:Q1:871:LEU:HD23	17:Q1:871:LEU:C	2.41	0.45
17:Q1:1016:PHE:HD2	17:Q1:1064:ARG:HH21	1.63	0.45
17:Q2:216:PRO:HD2	17:Q2:281:ARG:CZ	2.46	0.45
17:Q2:715:LEU:O	17:Q2:716:ASN:HB3	2.16	0.45
17:Q2:1043:ARG:NH2	17:Q2:1117:ILE:HD11	2.32	0.45
17:Q2:1122:THR:HG23	17:Q2:1123:LEU:N	2.31	0.45
18:R1:575:GLU:HG3	18:R1:641:SER:OG	2.17	0.45
19:R2:8:GLN:C	19:R2:10:GLU:N	2.68	0.45
20:S1:375:GLU:C	20:S1:377:GLU:H	2.24	0.45
20:S1:567:LEU:C	21:T1:85:GLU:C	2.84	0.45
21:T1:116:LEU:O	21:T1:127:VAL:HA	2.16	0.45
25:X2:773:SER:CB	25:X2:797:LEU:HD21	2.43	0.45
26:Y1:1277:LYS:NZ	27:Z1:571:ILE:CB	2.78	0.45
27:Z2:102:ASP:HB2	27:Z2:105:ILE:HD12	1.99	0.45
27:Z2:241:THR:CG2	27:Z2:246:LYS:CE	2.91	0.45
29:b2:27:ILE:HD13	29:b2:48:GLN:CD	2.40	0.45
1:A2:1221:ILE:CG1	1:A1:600:LYS:HG3	2.46	0.45
1:A2:1226:LEU:HD22	1:A1:646:ILE:HB	1.99	0.45
1:A2:1331:GLU:C	4:D1:899:THR:O	2.60	0.45
1:A3:1084:ARG:C	4:D3:1095:ARG:HD3	2.40	0.45
4:D1:435:ARG:H	4:D1:435:ARG:HG2	1.67	0.45
4:D3:839:ASP:OD2	4:D3:947:SER:CB	2.64	0.45
6:F1:135:VAL:HG12	9:I1:1392:VAL:HG11	1.97	0.45
6:F1:160:SER:N	9:I1:1335:LYS:HA	2.32	0.45
6:F1:1832:ASN:OD1	6:F1:1833:ARG:HG3	2.16	0.45
9:I1:1048:GLU:CA	15:O1:171:ASP:N	2.69	0.45
9:I2:899:LEU:CD1	13:M3:582:THR:C	2.89	0.45
9:I2:1426:SER:CB	10:J2:263:MET:SD	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O3:90:HIS:N	15:O3:91:PRO:CD	2.79	0.45
17:Q1:283:VAL:CG2	17:Q1:297:LEU:HD11	2.44	0.45
17:Q1:298:SER:HB2	17:Q1:304:PRO:HD3	1.98	0.45
17:Q1:380:THR:OG1	17:Q1:512:ILE:HD11	2.16	0.45
17:Q1:906:ILE:HG13	17:Q1:907:THR:N	2.31	0.45
17:Q2:528:GLU:HB3	17:Q2:579:ILE:HD12	1.98	0.45
17:Q2:539:PHE:CZ	17:Q2:567:PHE:CE2	3.05	0.45
17:Q2:690:ARG:HB3	17:Q2:690:ARG:CZ	2.47	0.45
17:Q2:1018:PRO:O	17:Q2:1022:LEU:HG	2.17	0.45
18:R1:435:PHE:HA	18:R1:448:ILE:HG12	1.99	0.45
18:R1:444:ALA:HA	18:R1:447:PHE:CD2	2.35	0.45
18:R1:635:LEU:CD1	18:R1:655:ILE:CB	2.94	0.45
19:R2:159:ASP:OD2	20:S2:319:LEU:N	2.29	0.45
19:R2:664:LEU:CD1	19:R2:690:PHE:HE1	2.28	0.45
23:V1:453:ASP:OD1	23:V1:499:ALA:HB1	2.17	0.45
23:V2:153:ASN:HA	23:V2:156:GLU:OE1	2.16	0.45
24:W1:643:ASP:OD2	24:W1:646:ILE:HG13	2.17	0.45
24:W2:177:PHE:CD1	24:W2:183:LEU:HD22	2.51	0.45
24:W2:352:ILE:HD13	24:W2:471:ILE:HG12	1.99	0.45
25:X2:700:ILE:HD13	26:Y2:1295:VAL:HG12	1.98	0.45
25:X2:726:VAL:C	25:X2:727:SER:CA	2.90	0.45
26:Y1:1271:ASN:O	26:Y1:1275:ASN:OD1	2.35	0.45
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CZ2	2.91	0.45
26:Y1:1435:LYS:CE	27:Z1:225:LEU:HD21	2.24	0.45
27:Z1:152:THR:OG1	27:Z1:154:PHE:CE1	2.57	0.45
27:Z1:703:GLN:O	27:Z1:707:GLU:CG	2.60	0.45
27:Z2:45:TRP:NE1	27:Z2:95:TRP:CZ3	2.47	0.45
27:Z2:128:LYS:CD	27:Z2:147:GLU:HA	2.45	0.45
27:Z2:189:LYS:HG2	27:Z2:304:THR:HG22	1.99	0.45
28:a1:1038:PRO:C	28:a1:1040:ARG:H	2.24	0.45
28:a1:1040:ARG:N	28:a1:1041:PRO:CD	2.80	0.45
29:b1:36:GLN:O	29:b1:41:ILE:CD1	2.65	0.45
1:A2:939:LYS:N	1:A2:940:PRO:HD3	2.32	0.45
1:A4:861:GLN:HB2	1:A4:882:SER:HB3	1.99	0.45
4:D1:730:TYR:N	4:D1:731:PRO:CD	2.80	0.45
4:D3:1077:MET:SD	4:D3:1077:MET:N	2.89	0.45
4:D4:784:ARG:HG2	4:D4:787:ARG:HD3	1.99	0.45
6:F1:138:ILE:N	9:I1:1392:VAL:HG23	2.26	0.45
6:F1:161:ALA:O	9:I1:1335:LYS:CA	2.61	0.45
6:F2:1267:ARG:NH2	15:O4:263:GLN:HB2	2.32	0.45
7:G1:253:SER:CB	13:M2:595:MET:HE1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:887:GLN:OE1	15:O1:190:ARG:CZ	2.65	0.45
9:I1:1049:LEU:H	15:O1:171:ASP:N	2.14	0.45
9:I1:1311:LEU:HB3	15:O1:265:ASN:HB3	1.98	0.45
9:I2:885:GLU:O	13:M3:594:LYS:HG3	2.17	0.45
9:I2:917:TYR:CZ	15:O3:187:ASN:HA	2.51	0.45
9:I2:1099:ARG:HA	15:O3:272:SER:CB	2.38	0.45
9:I2:1256:TYR:CZ	14:N3:411:GLN:NE2	2.84	0.45
9:I2:1305:LEU:HG	15:O3:260:LEU:HD12	1.93	0.45
9:I2:1584:LEU:HD21	10:J2:275:PHE:CE1	2.50	0.45
10:J1:247:ASP:CB	15:O1:277:GLU:N	2.65	0.45
14:N3:284:PRO:HA	14:N3:287:VAL:HG12	1.98	0.45
17:Q1:260:ILE:O	17:Q1:260:ILE:HG23	2.17	0.45
17:Q1:362:ILE:HG22	17:Q1:511:PRO:C	2.36	0.45
17:Q1:498:VAL:HG13	17:Q1:499:ASP:N	2.31	0.45
17:Q1:700:GLU:CD	17:Q1:758:ILE:HG12	2.42	0.45
17:Q1:709:PHE:HD1	17:Q1:709:PHE:H	1.64	0.45
17:Q1:888:ILE:HG23	17:Q1:889:GLN:N	2.30	0.45
17:Q1:1018:PRO:O	17:Q1:1022:LEU:HG	2.17	0.45
17:Q2:61:PHE:HE1	17:Q2:71:THR:OG1	1.98	0.45
17:Q2:246:LYS:HD3	17:Q2:247:LEU:H	1.76	0.45
17:Q2:725:PHE:CZ	17:Q2:741:GLY:HA2	2.51	0.45
17:Q2:801:CYS:HB2	17:Q2:818:LEU:CD1	2.47	0.45
17:Q2:885:VAL:O	17:Q2:885:VAL:HG12	2.17	0.45
17:Q2:906:ILE:CD1	17:Q2:923:HIS:CD2	2.99	0.45
18:R1:143:LYS:HG3	18:R1:144:TRP:N	2.32	0.45
18:R1:219:LEU:HD22	18:R1:227:ILE:HG12	1.98	0.45
18:R1:701:ILE:HA	18:R1:704:LEU:HD23	1.98	0.45
19:R2:314:ILE:HD12	20:S2:309:LYS:HE3	1.98	0.45
20:S1:360:LYS:HG3	20:S1:366:PRO:HA	1.97	0.45
20:S2:156:THR:HG22	20:S2:514:ARG:CD	2.45	0.45
22:U1:346:THR:C	23:V1:51:MET:HB3	2.41	0.45
22:U2:140:LEU:O	22:U2:142:PRO:HD3	2.15	0.45
23:V1:406:LEU:HB2	23:V1:407:PRO:HD3	1.98	0.45
23:V2:453:ASP:OD1	23:V2:499:ALA:HB1	2.17	0.45
24:W2:436:HIS:NE2	24:W2:438:GLU:HB2	2.31	0.45
25:X1:778:LYS:C	25:X1:778:LYS:HD2	2.41	0.45
25:X1:793:LEU:O	25:X1:797:LEU:HG	2.16	0.45
26:Y1:1409:LEU:C	27:Z1:711:LYS:NZ	2.75	0.45
26:Y2:1382:VAL:CG1	26:Y2:1385:LEU:CA	2.93	0.45
27:Z1:46:TYR:OH	27:Z1:431:TRP:CZ2	2.61	0.45
27:Z1:297:TYR:HD1	27:Z1:320:ASP:HB2	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:387:MET:CE	27:Z1:391:SER:CA	2.84	0.45
27:Z1:578:ARG:HA	27:Z1:581:PHE:HD2	1.81	0.45
29:b1:12:LYS:HD3	29:b1:12:LYS:HA	1.68	0.45
29:b1:71:HIS:CG	29:b1:76:PHE:CD1	3.05	0.45
29:b2:29:LYS:CG	29:b2:81:ILE:HD13	2.35	0.45
1:A3:861:GLN:HB2	1:A3:882:SER:HB3	1.99	0.45
1:A3:1201:ARG:CA	1:A4:647:GLU:OE2	2.65	0.45
4:D1:784:ARG:HG2	4:D1:787:ARG:HD3	1.99	0.45
4:D2:730:TYR:N	4:D2:731:PRO:CD	2.80	0.45
6:F1:1203:TRP:CZ3	15:O2:237:PRO:O	2.70	0.45
6:F1:1266:MET:O	15:O2:254:ARG:HD2	2.17	0.45
6:F2:535:ILE:CG1	6:F2:536:PRO:HD2	2.46	0.45
9:I1:915:ALA:HB1	14:N1:318:ASP:OD2	2.16	0.45
9:I1:978:LYS:CB	15:O1:176:ARG:NH1	2.79	0.45
9:I2:899:LEU:HD13	13:M3:581:LEU:O	2.16	0.45
17:Q1:352:TYR:CD1	17:Q1:352:TYR:C	2.94	0.45
17:Q1:384:ASN:CB	17:Q1:509:ALA:CB	2.95	0.45
17:Q1:386:PHE:C	17:Q1:386:PHE:CD1	2.95	0.45
17:Q1:611:ASN:CG	17:Q1:649:PHE:CG	2.95	0.45
17:Q1:704:SER:N	17:Q1:707:PRO:HG2	2.28	0.45
17:Q1:792:LEU:HD12	17:Q1:792:LEU:N	2.32	0.45
17:Q1:999:LEU:CD1	17:Q1:1003:VAL:CG1	2.95	0.45
17:Q1:1155:VAL:HG23	17:Q1:1155:VAL:O	2.16	0.45
17:Q2:283:VAL:CG2	17:Q2:297:LEU:CD1	2.95	0.45
17:Q2:298:SER:HB2	17:Q2:304:PRO:HD3	1.99	0.45
17:Q2:584:LYS:CG	17:Q2:709:PHE:HZ	2.30	0.45
17:Q2:611:ASN:CG	17:Q2:649:PHE:CG	2.95	0.45
17:Q2:696:LEU:CD1	17:Q2:700:GLU:CG	2.94	0.45
17:Q2:704:SER:H	17:Q2:707:PRO:CG	2.25	0.45
17:Q2:725:PHE:CD2	17:Q2:744:LYS:HG3	2.50	0.45
17:Q2:811:LEU:CD1	17:Q2:814:LEU:CD2	2.94	0.45
17:Q2:814:LEU:HD12	17:Q2:815:VAL:HG13	1.98	0.45
17:Q2:999:LEU:HD13	17:Q2:1003:VAL:CG1	2.43	0.45
18:R1:264:TYR:O	18:R1:268:SER:OG	2.34	0.45
18:R1:532:ALA:CB	18:R1:535:ARG:HH21	2.30	0.45
19:R2:81:LEU:HD13	19:R2:85:ARG:NH2	2.32	0.45
19:R2:116:LEU:O	19:R2:119:ILE:HB	2.17	0.45
19:R2:264:TYR:O	19:R2:268:SER:OG	2.34	0.45
19:R2:538:LEU:HD13	19:R2:546:LEU:HD12	1.97	0.45
20:S1:173:ILE:HD11	21:T1:43:HIS:HD2	1.82	0.45
20:S1:393:GLY:O	20:S1:394:GLN:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:S2:187:ASP:OD1	20:S2:187:ASP:C	2.60	0.45
22:U1:208:LEU:HD11	22:U1:231:ILE:CD1	2.47	0.45
23:V2:141:ASN:C	23:V2:145:ASN:ND2	2.74	0.45
24:W1:247:ASP:O	24:W1:251:PHE:N	2.47	0.45
24:W1:352:ILE:HD13	24:W1:471:ILE:HG12	1.99	0.45
24:W1:523:ASP:OD2	24:W1:737:ILE:N	2.45	0.45
25:X2:644:TRP:CD1	25:X2:648:LEU:CD1	2.88	0.45
25:X2:664:SER:HA	25:X2:667:GLN:HG2	1.99	0.45
26:Y1:1294:LYS:HE2	27:Z1:588:TRP:CD1	2.32	0.45
26:Y1:1386:ALA:CA	26:Y2:1357:ASN:CA	2.92	0.45
26:Y2:1294:LYS:CG	27:Z2:588:TRP:CG	2.98	0.45
26:Y2:1337:HIS:CG	27:Z1:111:ILE:HD12	2.52	0.45
26:Y2:1409:LEU:C	27:Z2:711:LYS:NZ	2.75	0.45
27:Z1:15:ALA:HB1	27:Z1:16:SER:H	1.79	0.45
27:Z1:263:TRP:CD1	27:Z1:270:VAL:HG23	2.51	0.45
27:Z2:137:TYR:CD2	27:Z2:137:TYR:N	2.65	0.45
27:Z2:285:PHE:CE1	27:Z2:333:MET:CE	3.00	0.45
27:Z2:422:ARG:CD	27:Z2:442:ASN:OD1	2.65	0.45
27:Z2:426:LEU:HD21	27:Z2:439:LEU:CD2	2.45	0.45
27:Z2:582:GLU:CD	27:Z2:586:LYS:HE3	2.33	0.45
27:Z2:592:LEU:HA	27:Z2:595:GLN:CG	2.47	0.45
28:a2:1009:VAL:HG13	28:a2:1046:GLY:O	2.17	0.45
1:A2:861:GLN:HB2	1:A2:882:SER:HB3	1.99	0.45
1:A3:1204:TRP:CD1	1:A4:595:GLU:OE1	2.70	0.45
4:D3:615:TYR:CD2	4:D3:641:CYS:HB3	2.51	0.45
4:D3:930:VAL:HG21	4:D3:940:ALA:HB3	1.99	0.45
6:F1:1267:ARG:CB	15:O2:254:ARG:CD	2.64	0.45
6:F1:1528:ALA:O	1:A1:1099:GLN:HG3	2.13	0.45
6:F1:1797:ARG:HD2	14:N2:429:GLU:OE1	2.17	0.45
6:F2:138:ILE:C	9:I2:1391:THR:CG2	2.90	0.45
9:I2:1030:ARG:N	13:M3:613:ASP:N	2.55	0.45
15:O1:90:HIS:N	15:O1:91:PRO:CD	2.80	0.45
15:O4:90:HIS:N	15:O4:91:PRO:CD	2.79	0.45
17:Q1:133:ALA:HB1	17:Q1:168:LYS:HZ1	1.81	0.45
17:Q1:275:ILE:HD11	17:Q1:281:ARG:NH2	2.32	0.45
17:Q1:380:THR:HG23	17:Q1:512:ILE:HG21	1.97	0.45
17:Q1:470:LYS:HZ2	17:Q1:470:LYS:HB2	1.82	0.45
17:Q1:475:LEU:HD12	17:Q1:475:LEU:N	2.31	0.45
17:Q1:584:LYS:CB	17:Q1:586:ASP:HB2	2.42	0.45
17:Q1:606:GLN:HG3	17:Q1:608:ASP:N	2.32	0.45
17:Q2:196:LEU:HD13	17:Q2:197:GLU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:542:ASN:OD1	17:Q2:563:PHE:HD2	2.00	0.45
17:Q2:704:SER:N	17:Q2:707:PRO:HG2	2.28	0.45
17:Q2:742:LEU:HD23	17:Q2:742:LEU:C	2.41	0.45
17:Q2:871:LEU:HD23	17:Q2:871:LEU:C	2.41	0.45
17:Q2:982:GLU:CB	17:Q2:1104:ILE:HD11	2.37	0.45
18:R1:406:GLU:N	18:R1:447:PHE:CD1	2.84	0.45
19:R2:707:SER:O	19:R2:711:LEU:HB2	2.17	0.45
20:S2:304:VAL:HG13	20:S2:323:ILE:HG22	1.98	0.45
20:S2:393:GLY:O	20:S2:394:GLN:HB2	2.17	0.45
20:S2:513:MET:HG2	20:S2:541:ALA:HB2	1.99	0.45
21:T1:16:VAL:HG23	21:T1:59:VAL:HG23	1.98	0.45
21:T2:257:LEU:HA	21:T2:273:GLY:HA2	1.98	0.45
22:U1:212:LYS:HE3	25:X1:768:GLU:HG2	1.94	0.45
23:V1:97:ARG:NH1	23:V1:97:ARG:HB3	2.31	0.45
23:V2:97:ARG:NH1	23:V2:97:ARG:HB3	2.32	0.45
24:W1:436:HIS:NE2	24:W1:438:GLU:HB2	2.31	0.45
24:W1:490:VAL:HG22	24:W1:590:GLN:HG3	1.98	0.45
25:X1:789:GLU:HG3	27:Z1:680:TRP:CE2	2.35	0.45
26:Y2:1277:LYS:HG3	27:Z2:571:ILE:CG1	2.40	0.45
27:Z1:38:ILE:HG12	27:Z1:43:ILE:CD1	2.46	0.45
27:Z1:41:ASN:HA	27:Z1:59:PHE:CE1	2.52	0.45
27:Z1:69:PHE:N	27:Z1:84:ASN:OD1	2.50	0.45
27:Z1:356:LEU:C	27:Z1:357:GLN:HG2	2.42	0.45
27:Z1:422:ARG:CD	27:Z1:442:ASN:OD1	2.65	0.45
27:Z2:85:ASP:O	27:Z2:127:ILE:HG12	2.16	0.45
1:A1:939:LYS:N	1:A1:940:PRO:HD3	2.32	0.45
4:D2:1077:MET:SD	4:D2:1077:MET:N	2.89	0.45
4:D3:784:ARG:HG2	4:D3:787:ARG:HD3	1.99	0.45
4:D4:930:VAL:HG21	4:D4:940:ALA:HB3	1.99	0.45
6:F2:173:THR:O	6:F2:177:ARG:NH1	2.50	0.45
6:F2:1643:CYS:SG	6:F2:1644:ASP:N	2.90	0.45
9:I1:1116:ASP:OD2	10:J1:241:THR:HG21	2.17	0.45
9:I1:1314:LEU:O	9:I1:1314:LEU:HD23	2.17	0.45
9:I2:915:ALA:CB	15:O3:193:ALA:O	2.65	0.45
9:I2:1108:PRO:HB2	15:O3:281:ALA:HB3	1.83	0.45
17:Q1:69:VAL:CG1	17:Q1:477:PHE:CD1	2.96	0.45
17:Q1:196:LEU:HD11	17:Q1:198:LEU:HD23	1.95	0.45
17:Q1:283:VAL:CG2	17:Q1:297:LEU:CD1	2.95	0.45
17:Q1:539:PHE:CZ	17:Q1:567:PHE:CE2	3.05	0.45
17:Q1:642:PHE:HB3	17:Q1:643:PRO:CD	2.42	0.45
17:Q1:811:LEU:HD21	17:Q1:814:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:1097:GLU:HG3	17:Q1:1098:THR:HG23	1.99	0.45
17:Q2:375:PHE:C	17:Q2:375:PHE:CD1	2.95	0.45
17:Q2:527:ILE:CG1	17:Q2:530:ASP:CB	2.95	0.45
17:Q2:606:GLN:HG3	17:Q2:608:ASP:N	2.32	0.45
17:Q2:703:THR:CG2	17:Q2:709:PHE:CD1	2.91	0.45
17:Q2:745:ILE:CD1	17:Q2:800:GLN:CG	2.94	0.45
17:Q2:896:TYR:HB2	17:Q2:934:VAL:HG23	1.99	0.45
17:Q2:922:LEU:HD23	19:R2:688:LEU:HD22	1.98	0.45
17:Q2:950:ASN:O	17:Q2:954:ILE:HG13	2.17	0.45
17:Q2:1097:GLU:HG3	17:Q2:1098:THR:HG23	1.99	0.45
18:R1:530:ILE:HD11	18:R1:549:PHE:O	2.16	0.45
18:R1:651:ILE:O	18:R1:655:ILE:HG12	2.17	0.45
22:U2:31:GLN:OE1	22:U2:52:ARG:NH1	2.50	0.45
23:V1:141:ASN:C	23:V1:145:ASN:ND2	2.74	0.45
23:V2:97:ARG:NH2	23:V2:411:SER:O	2.50	0.45
25:X1:690:GLN:NE2	27:Z1:581:PHE:HZ	1.98	0.45
25:X2:753:GLU:CA	25:X2:756:ASN:ND2	2.78	0.45
26:Y2:1271:ASN:O	26:Y2:1275:ASN:OD1	2.35	0.45
26:Y2:1361:GLU:O	26:Y2:1365:ILE:HG12	2.17	0.45
26:Y2:1365:ILE:HG21	26:Y2:1387:LYS:CA	2.40	0.45
26:Y2:1410:GLN:CA	27:Z2:711:LYS:HE2	2.45	0.45
27:Z1:128:LYS:CD	27:Z1:147:GLU:HA	2.45	0.45
27:Z1:381:ILE:HD11	27:Z1:424:PRO:CD	2.47	0.45
27:Z1:420:ILE:CD1	27:Z1:424:PRO:CD	2.95	0.45
27:Z1:422:ARG:HH21	27:Z1:442:ASN:ND2	2.13	0.45
27:Z2:13:PHE:CE1	27:Z2:445:LEU:HD22	2.51	0.45
27:Z2:69:PHE:N	27:Z2:84:ASN:OD1	2.51	0.45
27:Z2:288:ASN:O	28:a1:1064:SER:HB3	2.17	0.45
27:Z2:384:VAL:HG22	27:Z2:414:LEU:HD22	1.99	0.45
1:A1:861:GLN:HB2	1:A1:882:SER:HB3	1.99	0.45
1:A2:1271:ILE:CG2	1:A1:730:THR:O	2.65	0.44
1:A4:127:HIS:O	4:D3:1010:ALA:HB2	2.17	0.44
1:A4:199:PHE:HA	2:B4:353:LEU:HA	1.99	0.44
6:F1:1113:LYS:N	6:F1:1114:PRO:HD2	2.32	0.44
7:G2:254:ASN:CB	15:O4:253:LEU:N	2.53	0.44
9:I1:908:ARG:NE	13:M1:551:LEU:HG	2.33	0.44
9:I2:660:THR:OG1	9:I2:661:HIS:N	2.51	0.44
9:I2:915:ALA:HB3	15:O3:193:ALA:HA	1.38	0.44
14:N1:433:GLU:OE2	16:P1:174:ARG:NH2	2.51	0.44
17:Q1:91:ASP:HB2	17:Q1:459:GLY:HA3	1.99	0.44
17:Q1:98:LEU:CB	17:Q1:107:ILE:HG22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:313:TYR:C	17:Q1:313:TYR:CD1	2.95	0.44
17:Q1:332:LYS:CE	17:Q1:352:TYR:HE2	2.23	0.44
17:Q1:600:PHE:CD1	17:Q1:600:PHE:C	2.94	0.44
17:Q1:801:CYS:HB2	17:Q1:818:LEU:CD1	2.47	0.44
17:Q1:814:LEU:HD12	17:Q1:815:VAL:HG12	1.98	0.44
17:Q2:98:LEU:CB	17:Q2:107:ILE:HG22	2.47	0.44
17:Q2:283:VAL:CG2	17:Q2:297:LEU:HD11	2.43	0.44
17:Q2:386:PHE:C	17:Q2:386:PHE:CD1	2.95	0.44
17:Q2:540:HIS:O	17:Q2:544:LYS:HG3	2.18	0.44
17:Q2:553:LEU:HD13	17:Q2:629:LEU:HD13	1.98	0.44
17:Q2:584:LYS:HZ1	17:Q2:590:LYS:CB	2.27	0.44
17:Q2:709:PHE:HD1	17:Q2:709:PHE:H	1.63	0.44
17:Q2:815:VAL:CG2	17:Q2:816:GLN:N	2.80	0.44
17:Q2:856:LYS:CB	17:Q2:859:ASP:HB2	2.37	0.44
17:Q2:1042:TRP:CZ2	17:Q2:1079:PRO:HD3	2.52	0.44
20:S1:394:GLN:HG2	20:S1:397:GLU:HB2	1.99	0.44
22:U2:119:ALA:C	22:U2:121:LEU:H	2.25	0.44
23:V2:406:LEU:HB2	23:V2:407:PRO:HD3	1.98	0.44
23:V2:511:TYR:HA	23:V2:512:PRO:HD3	1.73	0.44
24:W1:177:PHE:CD1	24:W1:183:LEU:HD22	2.51	0.44
24:W1:523:ASP:CB	24:W1:738:ARG:CB	2.95	0.44
24:W1:531:LYS:N	24:W1:743:ASN:O	2.50	0.44
24:W2:130:THR:O	24:W2:150:PHE:HA	2.17	0.44
24:W2:247:ASP:HB2	24:W2:254:ILE:HG13	1.98	0.44
25:X2:695:GLN:H	27:Z2:431:TRP:CB	2.30	0.44
26:Y2:1298:TYR:CD1	26:Y2:1298:TYR:C	2.95	0.44
27:Z1:133:HIS:NE2	27:Z1:213:PRO:HD3	2.31	0.44
27:Z1:592:LEU:HD22	27:Z1:595:GLN:OE1	2.16	0.44
27:Z1:628:MET:HG3	27:Z1:632:LYS:HD2	1.99	0.44
27:Z1:699:GLU:O	27:Z1:703:GLN:HG3	2.16	0.44
27:Z2:63:LEU:HG	27:Z2:65:LEU:CD2	2.46	0.44
27:Z2:137:TYR:N	27:Z2:217:LEU:HG	2.29	0.44
27:Z2:182:ILE:HD12	27:Z2:198:ASN:CG	2.41	0.44
27:Z2:287:ILE:CD1	27:Z2:348:LEU:HD13	2.41	0.44
27:Z2:307:ILE:HD13	27:Z2:371:GLY:HA2	1.96	0.44
1:A2:1196:GLU:HB3	1:A1:590:SER:HB2	1.98	0.44
1:A4:1017:THR:HG21	1:A4:1048:ARG:NH1	2.33	0.44
4:D1:969:HIS:NE2	1:A1:715:GLU:OE2	2.50	0.44
6:F1:138:ILE:HD13	9:I1:1388:GLU:CA	2.43	0.44
6:F1:173:THR:O	6:F1:177:ARG:NH1	2.50	0.44
6:F2:143:GLY:CA	9:I2:1395:LEU:CD2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:1801:VAL:O	6:F2:1801:VAL:HG23	2.17	0.44
9:I1:978:LYS:HG3	15:O1:176:ARG:HB3	2.00	0.44
9:I1:1034:ASP:OD1	16:P1:148:ALA:HB2	2.18	0.44
9:I1:1609:GLY:C	10:J2:300:ILE:HD12	2.42	0.44
9:I2:1254:VAL:CB	14:N3:408:MET:O	2.65	0.44
17:Q1:196:LEU:HD13	17:Q1:197:GLU:N	2.31	0.44
17:Q1:294:THR:HG23	17:Q1:294:THR:O	2.16	0.44
17:Q1:375:PHE:CD1	17:Q1:375:PHE:C	2.95	0.44
17:Q1:395:PHE:HB3	17:Q1:421:PRO:HG3	1.99	0.44
17:Q1:584:LYS:CG	17:Q1:709:PHE:HZ	2.30	0.44
17:Q1:678:TYR:OH	17:Q1:682:LEU:HD11	2.17	0.44
17:Q1:703:THR:CG2	17:Q1:709:PHE:CD1	2.91	0.44
17:Q1:811:LEU:CD2	17:Q1:814:LEU:HD23	2.48	0.44
17:Q1:835:PHE:CD2	17:Q1:835:PHE:C	2.95	0.44
17:Q1:929:LEU:HB3	18:R1:714:TYR:CZ	2.47	0.44
17:Q2:91:ASP:HB2	17:Q2:459:GLY:HA3	2.00	0.44
17:Q2:688:THR:CG2	17:Q2:692:GLU:CB	2.95	0.44
17:Q2:693:LEU:CD1	17:Q2:761:ASN:HD21	2.31	0.44
17:Q2:700:GLU:CD	17:Q2:758:ILE:HG12	2.42	0.44
17:Q2:973:LYS:HD3	17:Q2:976:LYS:HZ2	1.81	0.44
17:Q2:1115:GLU:O	17:Q2:1119:GLN:HG3	2.17	0.44
18:R1:436:LEU:O	18:R1:461:GLN:OE1	2.34	0.44
18:R1:445:CYS:CB	18:R1:468:LEU:CD2	2.95	0.44
19:R2:631:ILE:HD13	19:R2:632:LYS:CG	2.35	0.44
21:T2:95:HIS:NE2	21:T2:138:PRO:HB3	2.31	0.44
22:U1:119:ALA:C	22:U1:121:LEU:H	2.25	0.44
23:V1:198:GLU:HG2	23:V1:300:SER:CB	2.47	0.44
23:V2:285:VAL:O	23:V2:289:ILE:HG13	2.18	0.44
25:X1:704:GLN:O	25:X1:708:GLU:HG3	2.17	0.44
25:X1:755:LEU:CD2	25:X1:758:LEU:HD12	2.45	0.44
25:X2:679:LEU:HB3	26:Y2:1281:MET:SD	2.57	0.44
25:X2:695:GLN:CG	27:Z2:431:TRP:CG	2.73	0.44
26:Y2:1333:ASP:CB	27:Z1:92:GLU:HB2	2.45	0.44
27:Z1:125:SER:C	27:Z1:147:GLU:CD	2.75	0.44
27:Z1:151:ILE:HD12	27:Z1:167:ASN:ND2	2.30	0.44
27:Z1:287:ILE:HD13	27:Z1:287:ILE:HA	1.92	0.44
27:Z2:120:GLU:H	27:Z2:124:LYS:CE	2.24	0.44
27:Z2:628:MET:HG3	27:Z2:632:LYS:CE	2.47	0.44
29:b1:42:ALA:CA	29:b1:59:VAL:HG21	2.47	0.44
29:b1:71:HIS:CD2	29:b1:71:HIS:N	2.82	0.44
29:b2:90:LYS:HG2	29:b2:91:THR:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:1333:ARG:CD	4:D3:880:ASP:CA	2.87	0.44
4:D1:469:MET:SD	4:D1:483:MET:HE2	2.58	0.44
4:D4:730:TYR:N	4:D4:731:PRO:CD	2.80	0.44
6:F1:840:ARG:HG3	6:F1:841:PRO:HD2	1.99	0.44
6:F2:535:ILE:HG13	6:F2:536:PRO:HD2	1.99	0.44
6:F2:1113:LYS:N	6:F2:1114:PRO:HD2	2.32	0.44
9:I1:892:HIS:NE2	13:M1:590:LYS:CB	2.61	0.44
9:I1:976:ARG:HD2	15:O1:174:LEU:N	2.32	0.44
9:I2:889:THR:OG1	15:O3:247:TRP:CH2	2.62	0.44
9:I2:891:LEU:H	13:M3:591:ASP:N	2.09	0.44
9:I2:1254:VAL:CB	14:N3:411:GLN:N	2.71	0.44
9:I2:1314:LEU:O	9:I2:1314:LEU:HD23	2.17	0.44
15:O3:156:ILE:CG2	15:O3:157:THR:N	2.81	0.44
17:Q1:103:LYS:HE3	17:Q1:103:LYS:CA	2.38	0.44
17:Q1:688:THR:CG2	17:Q1:692:GLU:CB	2.95	0.44
17:Q1:725:PHE:CZ	17:Q1:741:GLY:HA2	2.51	0.44
17:Q1:742:LEU:HD23	17:Q1:742:LEU:C	2.41	0.44
17:Q1:815:VAL:CG2	17:Q1:816:GLN:N	2.80	0.44
17:Q2:365:THR:HG21	17:Q2:433:LEU:CD2	2.48	0.44
17:Q2:416:ILE:O	17:Q2:416:ILE:HG13	2.17	0.44
17:Q2:625:GLN:CG	17:Q2:626:ASN:H	2.29	0.44
17:Q2:835:PHE:CD2	17:Q2:835:PHE:C	2.95	0.44
17:Q2:922:LEU:HD13	19:R2:689:ALA:CA	2.47	0.44
19:R2:711:LEU:CA	19:R2:714:TYR:CD2	2.94	0.44
23:V1:153:ASN:HA	23:V1:156:GLU:OE1	2.16	0.44
24:W1:285:ASN:OD1	24:W1:285:ASN:N	2.48	0.44
24:W1:291:LEU:HA	24:W1:292:PRO:HD3	1.76	0.44
24:W1:658:HIS:HA	24:W1:661:GLN:OE1	2.18	0.44
25:X1:649:THR:CG2	26:Y2:1231:ASN:HD21	2.19	0.44
25:X1:807:LEU:O	27:Z1:701:LEU:CD1	2.66	0.44
25:X2:687:GLU:C	27:Z2:8:SER:OG	2.60	0.44
25:X2:815:GLU:OE2	26:Y2:1398:GLU:O	2.35	0.44
26:Y1:1429:LYS:HD3	26:Y1:1430:ASP:CG	2.13	0.44
26:Y2:1338:GLN:H	27:Z1:108:ALA:HB1	1.82	0.44
27:Z1:178:ARG:HD3	27:Z1:178:ARG:HA	1.86	0.44
27:Z1:288:ASN:O	28:a2:1064:SER:HB3	2.18	0.44
27:Z1:389:TRP:CE2	27:Z1:410:PHE:HE1	1.99	0.44
27:Z1:395:LYS:HB3	27:Z2:264:ASN:HA	1.51	0.44
29:b2:12:LYS:HD3	29:b2:12:LYS:HA	1.68	0.44
1:A3:1331:GLU:HG3	4:D3:873:GLN:CA	2.42	0.44
1:A4:127:HIS:HE2	4:D3:1006:ASP:CA	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:353:LEU:HA	1:A1:199:PHE:HA	1.99	0.44
4:D1:461:PRO:HG2	4:D1:747:TYR:CE1	2.53	0.44
4:D1:1077:MET:SD	4:D1:1077:MET:N	2.89	0.44
6:F1:1801:VAL:O	6:F1:1801:VAL:HG23	2.17	0.44
6:F2:511:ALA:O	6:F2:1008:TYR:N	2.43	0.44
9:I1:906:GLY:CA	13:M1:572:GLU:CD	2.52	0.44
9:I1:1315:GLN:CD	15:O1:266:GLN:O	2.61	0.44
9:I1:1357:LYS:HZ1	15:O1:263:GLN:HB2	1.70	0.44
9:I2:917:TYR:OH	15:O3:187:ASN:OD1	2.36	0.44
9:I2:926:SER:HB3	15:O3:183:VAL:HG13	1.64	0.44
9:I2:968:PRO:O	14:N3:299:ASN:OD1	2.35	0.44
17:Q1:416:ILE:O	17:Q1:416:ILE:HG13	2.17	0.44
17:Q1:814:LEU:CD1	17:Q1:815:VAL:CG1	2.95	0.44
17:Q2:103:LYS:HE3	17:Q2:103:LYS:CA	2.38	0.44
17:Q2:395:PHE:HB3	17:Q2:421:PRO:HG3	2.00	0.44
17:Q2:467:VAL:CG1	17:Q2:475:LEU:HD13	2.48	0.44
17:Q2:610:LEU:CD2	17:Q2:613:ILE:CD1	2.95	0.44
17:Q2:678:TYR:CE2	17:Q2:682:LEU:HD11	2.52	0.44
17:Q2:754:ASN:CA	17:Q2:757:LYS:HE2	2.33	0.44
17:Q2:836:PHE:HE2	17:Q2:842:GLU:OE2	2.01	0.44
17:Q2:857:LEU:HD12	17:Q2:915:GLU:O	2.13	0.44
18:R1:81:LEU:HD13	18:R1:85:ARG:NH2	2.32	0.44
18:R1:530:ILE:HG13	18:R1:549:PHE:HD2	1.72	0.44
18:R1:617:ILE:HG13	18:R1:670:LYS:HG2	1.95	0.44
19:R2:651:ILE:O	19:R2:655:ILE:HG12	2.18	0.44
20:S1:187:ASP:OD1	20:S1:187:ASP:C	2.60	0.44
22:U1:31:GLN:OE1	22:U1:52:ARG:NH1	2.50	0.44
22:U1:124:LYS:HG3	22:U1:138:ASP:OD1	2.17	0.44
22:U1:290:SER:O	25:X1:801:PHE:CB	2.53	0.44
22:U1:294:VAL:HG12	27:Z1:657:TYR:C	2.28	0.44
22:U2:124:LYS:HG3	22:U2:138:ASP:OD1	2.17	0.44
24:W2:643:ASP:OD2	24:W2:646:ILE:HG13	2.17	0.44
25:X1:665:TRP:CZ3	25:X1:669:LEU:HD12	2.49	0.44
25:X2:807:LEU:O	27:Z2:701:LEU:CD1	2.66	0.44
26:Y1:1118:ALA:CB	29:b1:71:HIS:O	2.65	0.44
26:Y1:1229:MET:HE2	26:Y1:1233:ARG:HH12	1.82	0.44
26:Y1:1382:VAL:O	26:Y1:1383:ALA:HB3	2.17	0.44
27:Z1:52:SER:O	27:Z1:53:LEU:CG	2.66	0.44
27:Z1:129:LYS:HZ3	27:Z1:185:LEU:CA	2.30	0.44
27:Z1:158:ASN:CB	27:Z1:161:GLU:CD	2.85	0.44
27:Z1:285:PHE:CE1	27:Z1:333:MET:CE	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:391:SER:HB2	27:Z2:267:PHE:CZ	2.47	0.44
27:Z1:522:GLU:HG2	27:Z1:526:GLU:HG3	1.98	0.44
27:Z1:592:LEU:HA	27:Z1:595:GLN:CG	2.47	0.44
27:Z2:41:ASN:HA	27:Z2:59:PHE:CE1	2.52	0.44
27:Z2:94:PRO:HA	27:Z2:109:PHE:CE1	2.52	0.44
27:Z2:178:ARG:HD3	27:Z2:178:ARG:HA	1.86	0.44
27:Z2:356:LEU:C	27:Z2:357:GLN:HG2	2.42	0.44
28:a1:1030:THR:HG22	28:a1:1031:CYS:N	2.33	0.44
1:A2:1200:ARG:CA	1:A1:595:GLU:HB2	2.44	0.44
1:A2:1221:ILE:C	1:A1:599:ARG:CB	2.65	0.44
4:D2:469:MET:SD	4:D2:483:MET:HE2	2.58	0.44
4:D3:469:MET:SD	4:D3:483:MET:HE2	2.58	0.44
4:D4:461:PRO:HG2	4:D4:747:TYR:CE1	2.53	0.44
6:F1:136:ALA:O	9:I1:1389:GLN:O	2.35	0.44
6:F1:139:GLN:CB	9:I1:1396:ILE:HG13	2.33	0.44
6:F2:840:ARG:HG3	6:F2:841:PRO:HD2	1.98	0.44
9:I1:967:SER:CB	15:O1:178:ASP:CB	2.84	0.44
9:I2:1035:GLN:OE1	16:P3:145:SER:N	2.50	0.44
9:I2:1116:ASP:OD2	10:J2:241:THR:HG21	2.17	0.44
15:O2:99:LEU:O	15:O2:137:VAL:N	2.51	0.44
15:O4:99:LEU:O	15:O4:137:VAL:N	2.51	0.44
17:Q1:246:LYS:HD2	17:Q1:248:LEU:HD23	2.00	0.44
17:Q1:610:LEU:CD2	17:Q1:613:ILE:CD1	2.95	0.44
17:Q1:1043:ARG:NH2	17:Q1:1117:ILE:HD11	2.32	0.44
17:Q1:1057:LEU:CD1	17:Q1:1061:ILE:CD1	2.96	0.44
17:Q1:1122:THR:HG23	17:Q1:1123:LEU:N	2.31	0.44
17:Q2:246:LYS:HD2	17:Q2:248:LEU:HD23	1.99	0.44
17:Q2:313:TYR:HA	17:Q2:316:ILE:HG12	1.97	0.44
17:Q2:362:ILE:HD12	17:Q2:362:ILE:O	2.17	0.44
17:Q2:658:PHE:HB2	17:Q2:659:PRO:HD3	1.98	0.44
17:Q2:929:LEU:CD1	19:R2:691:THR:O	2.65	0.44
17:Q2:973:LYS:CD	17:Q2:976:LYS:HZ2	2.31	0.44
17:Q2:1121:GLU:O	17:Q2:1124:ASN:HB3	2.18	0.44
18:R1:116:LEU:O	18:R1:119:ILE:HB	2.17	0.44
18:R1:442:LEU:CD1	18:R1:470:LEU:CD2	2.95	0.44
19:R2:385:LEU:O	19:R2:389:VAL:HG23	2.18	0.44
20:S2:173:ILE:HD11	21:T2:43:HIS:HD2	1.82	0.44
21:T2:273:GLY:C	21:T2:275:ASP:H	2.25	0.44
22:U1:131:ASP:OD2	22:U1:135:ARG:NH2	2.51	0.44
23:V1:141:ASN:C	23:V1:145:ASN:HD22	2.24	0.44
23:V2:198:GLU:HG2	23:V2:300:SER:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:679:LEU:HB3	26:Y1:1281:MET:SD	2.58	0.44
25:X1:815:GLU:OE2	26:Y1:1398:GLU:O	2.35	0.44
25:X2:680:TYR:CE1	27:Z2:439:LEU:CD1	2.99	0.44
25:X2:814:LEU:HD11	27:Z2:705:SER:HG	1.70	0.44
25:X2:819:ASN:HA	25:X2:822:LYS:HD2	1.99	0.44
26:Y1:1298:TYR:CD1	26:Y1:1298:TYR:C	2.95	0.44
26:Y2:1367:LYS:CA	26:Y2:1383:ALA:HB3	2.46	0.44
26:Y2:1435:LYS:HZ3	27:Z2:224:ASN:HB3	1.83	0.44
27:Z1:12:ILE:HB	27:Z1:54:TYR:CD2	2.53	0.44
27:Z1:142:ILE:HD11	27:Z1:156:ILE:HD11	1.99	0.44
27:Z1:327:LEU:HD13	27:Z1:348:LEU:HD13	1.98	0.44
27:Z2:223:LEU:HD13	27:Z2:263:TRP:CD2	2.50	0.44
27:Z2:291:PRO:HB2	27:Z2:294:LEU:HG	1.99	0.44
27:Z2:294:LEU:HD13	27:Z2:319:PHE:CD1	2.53	0.44
27:Z2:325:ILE:CG2	27:Z2:327:LEU:CD2	2.95	0.44
28:a1:1015:PRO:O	28:a1:1017:THR:N	2.51	0.44
29:b1:49:LEU:CD2	29:b1:53:TYR:CE2	3.00	0.44
1:A3:939:LYS:N	1:A3:940:PRO:HD3	2.32	0.44
1:A4:622:GLY:O	4:D3:977:GLU:CD	2.61	0.44
1:A4:929:ASN:ND2	4:D3:468:LYS:NZ	2.61	0.44
4:D2:784:ARG:HG2	4:D2:787:ARG:HD3	1.99	0.44
6:F1:133:GLN:HB2	9:I1:1389:GLN:HE21	1.83	0.44
6:F1:1837:LYS:O	6:F1:1841:LEU:HD13	2.18	0.44
9:I1:961:ARG:HD3	15:O1:186:PHE:HA	1.44	0.44
9:I2:964:SER:C	16:P3:152:LYS:HB2	2.41	0.44
9:I2:1050:SER:CB	16:P3:142:LEU:H	2.30	0.44
9:I2:1333:THR:N	9:I2:1334:PRO:CD	2.80	0.44
14:N4:433:GLU:OE2	16:P4:174:ARG:NH2	2.51	0.44
15:O2:98:TYR:HD2	15:O2:125:ALA:HB2	1.83	0.44
17:Q1:134:VAL:HG12	17:Q1:135:ALA:H	1.83	0.44
17:Q1:681:ILE:HG23	17:Q1:682:LEU:N	2.32	0.44
17:Q1:922:LEU:HD11	18:R1:688:LEU:O	2.17	0.44
17:Q2:97:GLY:HA3	17:Q2:110:ILE:HD11	2.00	0.44
17:Q2:98:LEU:HD21	17:Q2:100:ASN:OD1	2.18	0.44
17:Q2:506:LYS:HD2	17:Q2:563:PHE:CZ	2.52	0.44
17:Q2:533:LEU:HD23	17:Q2:533:LEU:C	2.43	0.44
17:Q2:709:PHE:N	17:Q2:709:PHE:HD1	2.14	0.44
17:Q2:999:LEU:CD1	17:Q2:1003:VAL:CG1	2.95	0.44
17:Q2:1029:LEU:CD2	17:Q2:1037:LEU:HD12	2.48	0.44
18:R1:109:LEU:HD23	18:R1:298:ILE:HG13	2.00	0.44
18:R1:524:VAL:HG13	18:R1:577:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:510:LEU:CB	19:R2:533:LEU:CD1	2.94	0.44
19:R2:524:VAL:HG13	19:R2:577:GLU:OE1	2.18	0.44
19:R2:533:LEU:HD21	19:R2:537:PHE:HE2	1.82	0.44
21:T1:52:HIS:CE1	21:T1:80:LEU:HD12	2.53	0.44
21:T1:273:GLY:C	21:T1:275:ASP:H	2.25	0.44
22:U1:7:GLY:C	22:U1:34:LYS:HE3	2.42	0.44
25:X1:664:SER:HA	25:X1:667:GLN:HG2	1.99	0.44
25:X1:742:GLN:CD	25:X1:742:GLN:C	2.85	0.44
25:X2:672:GLY:O	25:X2:676:ILE:HG12	2.17	0.44
25:X2:680:TYR:OH	27:Z2:420:ILE:CG2	2.50	0.44
25:X2:688:HIS:HD2	27:Z2:446:THR:C	2.24	0.44
26:Y2:1335:SER:O	26:Y2:1339:PHE:CG	2.69	0.44
27:Z1:189:LYS:HG2	27:Z1:304:THR:HG22	1.99	0.44
27:Z1:428:TYR:CE1	27:Z1:435:SER:HG	1.74	0.44
27:Z1:451:SER:HA	27:Z1:452:SER:N	2.31	0.44
27:Z1:648:GLN:O	27:Z1:652:GLN:HG2	2.17	0.44
27:Z2:300:THR:N	27:Z2:318:SER:O	2.31	0.44
27:Z2:381:ILE:HD11	27:Z2:424:PRO:CD	2.47	0.44
27:Z2:625:HIS:ND1	27:Z2:626:GLY:HA2	2.33	0.44
28:a1:968:GLU:H	28:a1:968:GLU:HG3	1.45	0.44
29:b1:80:TYR:CZ	29:b1:85:ALA:HB2	2.50	0.44
1:A1:1017:THR:HG21	1:A1:1048:ARG:NH1	2.33	0.44
1:A2:1273:ALA:C	1:A1:642:ARG:HH11	2.26	0.44
1:A3:1333:ARG:CD	4:D3:880:ASP:HA	2.47	0.44
1:A4:939:LYS:N	1:A4:940:PRO:HD3	2.32	0.44
4:D4:469:MET:SD	4:D4:483:MET:HE2	2.58	0.44
9:I1:917:TYR:CD2	15:O1:191:ARG:HD3	2.52	0.44
9:I1:978:LYS:HD3	13:M1:524:GLU:HG2	2.00	0.44
9:I1:1361:ALA:O	9:I1:1365:ALA:N	2.50	0.44
9:I2:976:ARG:CD	15:O3:174:LEU:HD11	1.88	0.44
9:I2:1308:THR:CB	14:N3:414:ALA:HA	2.47	0.44
14:N2:433:GLU:OE2	16:P2:174:ARG:NH2	2.51	0.44
17:Q1:98:LEU:HD21	17:Q1:100:ASN:OD1	2.18	0.44
17:Q1:506:LYS:HD2	17:Q1:563:PHE:CZ	2.52	0.44
17:Q1:540:HIS:O	17:Q1:544:LYS:HG3	2.17	0.44
17:Q1:1042:TRP:CZ2	17:Q1:1079:PRO:HD3	2.52	0.44
17:Q1:1115:GLU:O	17:Q1:1119:GLN:HG3	2.17	0.44
17:Q2:275:ILE:HD11	17:Q2:281:ARG:NH2	2.32	0.44
17:Q2:811:LEU:HD21	17:Q2:814:LEU:HD23	1.99	0.44
17:Q2:891:ILE:CD1	19:R2:715:LEU:CD1	2.95	0.44
18:R1:106:GLU:O	18:R1:110:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:653:TYR:CD1	19:R2:653:TYR:C	2.95	0.44
22:U2:107:SER:HA	22:U2:135:ARG:HH21	1.83	0.44
23:V1:141:ASN:N	23:V1:141:ASN:HD22	2.16	0.44
23:V2:221:GLU:HA	23:V2:224:ILE:HG13	2.00	0.44
24:W1:499:SER:O	24:W1:500:GLU:C	2.60	0.44
25:X2:820:SER:C	27:Z1:273:GLN:N	2.75	0.44
27:Z1:12:ILE:CD1	27:Z1:54:TYR:HB3	2.42	0.44
27:Z1:316:CYS:HB3	27:Z1:324:LEU:HD11	1.98	0.44
27:Z2:52:SER:O	27:Z2:53:LEU:CG	2.66	0.44
27:Z2:142:ILE:HD11	27:Z2:156:ILE:HD11	1.99	0.44
27:Z2:417:ILE:O	27:Z2:418:ALA:CB	2.64	0.44
27:Z2:628:MET:HG3	27:Z2:632:LYS:HD2	1.99	0.44
28:a1:1034:TYR:CE2	28:a1:1041:PRO:HG2	2.52	0.44
29:b2:75:HIS:CD2	29:b2:75:HIS:N	2.86	0.44
1:A3:1056:PHE:HB3	4:D3:1101:HIS:CE1	2.53	0.44
4:D3:437:GLY:N	4:D3:438:PRO:HD2	2.33	0.44
6:F1:1807:GLU:C	14:N2:411:GLN:HE22	2.25	0.44
6:F2:1120:HIS:O	6:F2:1124:THR:HG23	2.18	0.44
9:I1:963:LEU:HB2	15:O1:178:ASP:O	2.17	0.44
9:I1:981:VAL:CG1	15:O1:176:ARG:CD	2.95	0.44
9:I2:902:GLN:HG2	13:M3:580:LYS:HB2	1.44	0.44
9:I2:906:GLY:HA2	13:M3:573:ARG:HG3	1.99	0.44
9:I2:1049:LEU:CG	16:P3:142:LEU:N	2.80	0.44
15:O2:156:ILE:CG2	15:O2:157:THR:N	2.81	0.44
17:Q1:210:LEU:HD13	17:Q1:211:MET:CA	2.48	0.44
17:Q1:244:LEU:HD23	17:Q1:244:LEU:C	2.43	0.44
17:Q1:331:LEU:CD1	17:Q1:351:ILE:CG2	2.94	0.44
17:Q1:553:LEU:HD13	17:Q1:629:LEU:HD13	1.98	0.44
17:Q1:693:LEU:CD1	17:Q1:761:ASN:HD21	2.31	0.44
17:Q1:829:VAL:HG13	17:Q1:830:SER:N	2.32	0.44
17:Q1:999:LEU:HD13	17:Q1:1003:VAL:CG1	2.43	0.44
17:Q2:164:LEU:HD22	17:Q2:164:LEU:N	2.33	0.44
17:Q2:636:ILE:HG13	17:Q2:637:ASN:H	1.82	0.44
17:Q2:811:LEU:CD2	17:Q2:814:LEU:HD23	2.47	0.44
17:Q2:1007:SER:CB	17:Q2:1044:ARG:HD3	2.25	0.44
17:Q2:1076:PHE:HB3	17:Q2:1155:VAL:CG2	2.46	0.44
18:R1:222:VAL:O	20:S1:256:VAL:HG22	2.18	0.44
18:R1:533:LEU:HD21	18:R1:537:PHE:HE2	1.82	0.44
18:R1:617:ILE:HD11	18:R1:670:LYS:HG2	2.00	0.44
18:R1:631:ILE:HD13	18:R1:632:LYS:CG	2.35	0.44
19:R2:106:GLU:O	19:R2:110:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:R2:222:VAL:O	20:S2:256:VAL:HG22	2.18	0.44
19:R2:538:LEU:HB2	19:R2:546:LEU:CD1	2.40	0.44
19:R2:667:LEU:HD13	19:R2:671:LEU:HG	1.98	0.44
24:W1:530:LYS:H	24:W1:743:ASN:C	2.26	0.44
24:W1:668:TYR:CZ	24:W1:672:LYS:HE3	2.53	0.44
25:X1:672:GLY:O	25:X1:676:ILE:HG12	2.17	0.44
25:X2:789:GLU:H	27:Z2:680:TRP:HZ3	1.65	0.44
26:Y1:1318:LEU:O	26:Y1:1321:MET:HB2	2.18	0.44
26:Y2:1446:LYS:HB3	27:Z2:330:ASP:OD1	2.18	0.44
27:Z2:449:ASN:CG	27:Z2:576:ASP:HB3	2.42	0.44
27:Z2:648:GLN:O	27:Z2:652:GLN:HG2	2.17	0.44
1:A2:199:PHE:HA	2:B2:353:LEU:HA	1.99	0.44
1:A2:1221:ILE:H	1:A1:596:ARG:C	2.26	0.44
1:A3:1017:THR:HG21	1:A3:1048:ARG:NH1	2.33	0.44
1:A4:827:ILE:HD13	1:A4:849:SER:HG	1.76	0.44
4:D3:1037:GLN:N	4:D3:1038:PRO:HD2	2.33	0.44
6:F1:179:GLU:OE1	9:I1:1201:PHE:CE1	2.71	0.44
9:I1:660:THR:OG1	9:I1:661:HIS:N	2.51	0.44
9:I1:925:LEU:HG	15:O1:187:ASN:HB3	2.00	0.44
9:I2:911:PRO:CA	15:O3:197:ARG:HE	2.28	0.44
9:I2:976:ARG:CZ	15:O3:174:LEU:HD13	2.47	0.44
9:I2:1034:ASP:HA	15:O3:284:LYS:CG	2.47	0.44
9:I2:1102:GLN:O	15:O3:276:GLY:CA	2.58	0.44
9:I2:1172:TYR:CB	15:O3:273:ASP:OD2	2.55	0.44
9:I2:1305:LEU:HD21	15:O3:260:LEU:HG	2.00	0.44
10:J1:248:VAL:HG22	15:O1:273:ASP:CA	2.35	0.44
15:O3:99:LEU:O	15:O3:137:VAL:N	2.51	0.44
15:O4:156:ILE:CG2	15:O4:157:THR:N	2.81	0.44
17:Q1:264:ASN:CA	17:Q1:289:LYS:HB2	2.48	0.44
17:Q1:427:THR:CG2	17:Q1:428:GLN:N	2.81	0.44
17:Q1:570:PHE:CZ	17:Q1:574:ASN:ND2	2.86	0.44
17:Q1:678:TYR:CE2	17:Q1:682:LEU:HD11	2.52	0.44
17:Q1:808:TYR:CD2	17:Q1:811:LEU:HB2	2.53	0.44
17:Q1:814:LEU:HD12	17:Q1:814:LEU:C	2.43	0.44
17:Q1:896:TYR:HB2	17:Q1:934:VAL:HG23	1.99	0.44
17:Q1:1076:PHE:HB3	17:Q1:1155:VAL:CG2	2.45	0.44
17:Q1:1086:ASP:HB3	17:Q1:1089:LEU:HG	2.00	0.44
17:Q1:1121:GLU:O	17:Q1:1124:ASN:HB3	2.18	0.44
17:Q2:345:GLN:CG	17:Q2:346:LEU:HD22	2.16	0.44
17:Q2:470:LYS:HZ2	17:Q2:470:LYS:HB2	1.82	0.44
17:Q2:567:PHE:CE2	17:Q2:571:VAL:CG1	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:642:PHE:HB3	17:Q2:643:PRO:CD	2.42	0.44
18:R1:435:PHE:O	18:R1:448:ILE:CG1	2.65	0.44
18:R1:473:SER:HB2	18:R1:475:ILE:CG1	2.43	0.44
18:R1:511:ILE:HD11	18:R1:548:GLN:CD	2.42	0.44
18:R1:612:ASN:HA	18:R1:615:THR:HG22	1.99	0.44
18:R1:711:LEU:CA	18:R1:714:TYR:CD2	2.94	0.44
19:R2:511:ILE:HD11	19:R2:548:GLN:CD	2.42	0.44
19:R2:585:THR:HG22	19:R2:589:HIS:CD2	2.53	0.44
20:S2:394:GLN:HG2	20:S2:397:GLU:HB2	1.99	0.44
22:U1:243:PHE:CZ	27:Z1:660:SER:CB	3.00	0.44
23:V1:152:LEU:CD2	23:V1:182:LEU:HB3	2.43	0.44
24:W1:523:ASP:HB3	24:W1:738:ARG:CB	2.34	0.44
25:X1:645:THR:CG2	27:Z1:535:PHE:CE2	3.01	0.44
25:X2:645:THR:CG2	27:Z2:535:PHE:CE2	3.01	0.44
25:X2:648:LEU:HD21	27:Z2:535:PHE:CE1	2.52	0.44
25:X2:755:LEU:CD2	25:X2:758:LEU:HD12	2.45	0.44
26:Y1:1122:ILE:HD13	29:b1:87:LEU:CG	2.46	0.44
26:Y1:1229:MET:HE2	26:Y1:1233:ARG:NH1	2.33	0.44
26:Y1:1294:LYS:CG	27:Z1:588:TRP:CG	2.98	0.44
27:Z1:156:ILE:O	27:Z1:156:ILE:CG2	2.66	0.44
27:Z1:216:LEU:CG	27:Z1:272:ILE:HD12	1.96	0.44
27:Z1:288:ASN:C	28:a2:1064:SER:HB3	2.43	0.44
27:Z1:374:TYR:CE1	27:Z1:383:GLN:HG2	2.53	0.44
27:Z1:384:VAL:HG22	27:Z1:414:LEU:HD22	1.99	0.44
27:Z2:12:ILE:HB	27:Z2:54:TYR:CD2	2.53	0.44
27:Z2:58:ASN:HD21	27:Z2:60:SER:HG	1.66	0.44
27:Z2:156:ILE:O	27:Z2:156:ILE:CG2	2.66	0.44
27:Z2:178:ARG:NH2	27:Z2:280:LYS:CD	2.71	0.44
27:Z2:356:LEU:CD1	27:Z2:358:ARG:NH2	2.61	0.44
27:Z2:362:SER:OG	27:Z2:376:ILE:CB	2.58	0.44
27:Z2:448:GLN:CD	27:Z2:573:LYS:NZ	2.72	0.44
29:b1:46:LYS:HE3	29:b2:68:TYR:HB3	1.56	0.44
29:b2:64:ASN:O	29:b2:65:PHE:HB3	2.18	0.44
4:D1:930:VAL:HG21	4:D1:940:ALA:HB3	1.99	0.43
4:D1:1056:ARG:O	4:D1:1059:GLU:HB3	2.18	0.43
4:D3:461:PRO:HG2	4:D3:747:TYR:CE1	2.53	0.43
6:F1:143:GLY:O	9:I1:1397:GLY:CA	2.66	0.43
6:F2:160:SER:HA	9:I2:1197:ASN:O	2.18	0.43
9:I2:809:HIS:HE1	15:O3:240:GLY:HA2	0.90	0.43
9:I2:888:GLU:OE2	13:M3:597:LYS:HG3	2.16	0.43
9:I2:1108:PRO:CA	15:O3:281:ALA:CB	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N3:433:GLU:OE2	16:P3:174:ARG:NH2	2.51	0.43
15:O1:156:ILE:CG2	15:O1:157:THR:N	2.80	0.43
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CE1	2.86	0.43
17:Q1:381:TYR:CA	17:Q1:512:ILE:CG1	2.85	0.43
17:Q1:467:VAL:CG1	17:Q1:475:LEU:HD13	2.48	0.43
17:Q1:748:ILE:HG23	17:Q1:749:LEU:N	2.32	0.43
17:Q1:805:ALA:CB	17:Q1:815:VAL:CG1	2.93	0.43
17:Q1:836:PHE:HE2	17:Q1:842:GLU:OE2	2.00	0.43
17:Q1:950:ASN:O	17:Q1:954:ILE:HG13	2.17	0.43
17:Q2:366:ILE:CD1	17:Q2:377:ILE:CD1	2.95	0.43
17:Q2:381:TYR:OH	17:Q2:429:VAL:HG11	2.18	0.43
17:Q2:455:ILE:CG2	17:Q2:467:VAL:CG2	2.96	0.43
17:Q2:678:TYR:OH	17:Q2:682:LEU:HD11	2.17	0.43
17:Q2:748:ILE:HD13	17:Q2:748:ILE:C	2.43	0.43
17:Q2:814:LEU:CD1	17:Q2:815:VAL:CG1	2.95	0.43
17:Q2:829:VAL:HG13	17:Q2:830:SER:N	2.32	0.43
17:Q2:856:LYS:O	17:Q2:859:ASP:HB2	2.18	0.43
17:Q2:929:LEU:CB	19:R2:714:TYR:CZ	2.89	0.43
18:R1:535:ARG:NE	18:R1:651:ILE:HD11	2.32	0.43
19:R2:535:ARG:NE	19:R2:651:ILE:HD11	2.32	0.43
19:R2:612:ASN:HA	19:R2:615:THR:HG22	1.99	0.43
20:S2:168:LYS:HE2	21:T2:45:LEU:HB2	2.00	0.43
22:U1:209:PRO:HD3	27:Z1:661:GLU:C	2.33	0.43
22:U2:7:GLY:C	22:U2:34:LYS:HE3	2.42	0.43
23:V2:215:SER:HB2	23:V2:390:TRP:CZ2	2.53	0.43
27:Z1:362:SER:OG	27:Z1:376:ILE:CB	2.59	0.43
27:Z1:541:LYS:CD	27:Z2:550:HIS:C	2.91	0.43
27:Z2:303:ALA:HB3	27:Z2:363:LEU:HD21	1.90	0.43
1:A2:1196:GLU:OE2	1:A1:590:SER:HB3	2.13	0.43
1:A2:1226:LEU:HD21	1:A1:646:ILE:C	2.32	0.43
1:A2:1228:TYR:HE1	1:A1:643:ALA:N	2.16	0.43
1:A3:1268:ASP:O	1:A4:730:THR:HG23	2.18	0.43
1:A3:1269:ALA:CB	1:A4:729:SER:OG	2.66	0.43
1:A3:1333:ARG:HD3	4:D3:880:ASP:HA	2.00	0.43
4:D2:1056:ARG:O	4:D2:1059:GLU:HB3	2.18	0.43
4:D3:730:TYR:N	4:D3:731:PRO:CD	2.80	0.43
6:F1:535:ILE:HG13	6:F1:536:PRO:HD2	1.99	0.43
6:F2:133:GLN:O	9:I2:1388:GLU:OE1	2.35	0.43
9:I1:976:ARG:HH12	15:O1:174:LEU:HB2	1.46	0.43
9:I1:1048:GLU:OE1	15:O1:168:ALA:HA	2.17	0.43
9:I2:893:LEU:HD13	15:O3:247:TRP:HE1	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:899:LEU:O	13:M3:581:LEU:CA	2.66	0.43
9:I2:961:ARG:NH2	16:P3:162:GLU:O	2.51	0.43
9:I2:1049:LEU:N	14:N3:293:LYS:HA	2.32	0.43
15:O1:99:LEU:O	15:O1:137:VAL:N	2.51	0.43
17:Q1:455:ILE:CG2	17:Q1:467:VAL:CG2	2.96	0.43
17:Q1:465:LEU:HD13	17:Q1:466:TYR:C	2.43	0.43
17:Q1:610:LEU:CD1	17:Q1:614:TRP:CZ3	2.96	0.43
17:Q2:200:ILE:H	17:Q2:200:ILE:CD1	2.24	0.43
17:Q2:219:ILE:O	17:Q2:219:ILE:HG13	2.18	0.43
17:Q2:260:ILE:O	17:Q2:260:ILE:HG23	2.17	0.43
17:Q2:682:LEU:HD23	17:Q2:682:LEU:HA	1.85	0.43
17:Q2:852:ILE:HD11	17:Q2:913:LYS:CD	2.46	0.43
17:Q2:1057:LEU:CD1	17:Q2:1061:ILE:CD1	2.96	0.43
18:R1:385:LEU:O	18:R1:389:VAL:HG23	2.18	0.43
18:R1:664:LEU:CD1	18:R1:690:PHE:HE1	2.28	0.43
19:R2:532:ALA:CB	19:R2:535:ARG:HH21	2.30	0.43
19:R2:613:ILE:HG23	19:R2:614:PRO:CD	2.43	0.43
19:R2:615:THR:CG2	19:R2:616:LEU:N	2.81	0.43
20:S1:513:MET:HG2	20:S1:541:ALA:HB2	1.99	0.43
21:T2:35:ILE:HB	21:T2:47:ASP:HB2	2.00	0.43
22:U1:248:LYS:CG	25:X1:805:ARG:HB3	2.44	0.43
22:U1:288:LEU:CD2	25:X1:792:GLN:O	2.59	0.43
23:V1:239:VAL:HB	23:V1:240:PHE:H	1.59	0.43
24:W2:218:SER:OG	24:W2:219:ASP:N	2.50	0.43
24:W2:739:PHE:O	24:W2:743:ASN:N	2.36	0.43
25:X1:793:LEU:HD13	27:Z1:680:TRP:NE1	2.33	0.43
25:X1:799:SER:CB	26:Y1:1370:THR:O	2.66	0.43
25:X2:789:GLU:N	25:X2:789:GLU:CB	2.69	0.43
26:Y2:1229:MET:HE2	26:Y2:1233:ARG:NH1	2.33	0.43
26:Y2:1317:TYR:O	27:Z1:48:VAL:C	2.59	0.43
26:Y2:1337:HIS:HE1	27:Z1:111:ILE:N	2.02	0.43
27:Z1:158:ASN:HB3	27:Z1:161:GLU:HG2	1.99	0.43
27:Z1:291:PRO:HB2	27:Z1:294:LEU:HG	1.99	0.43
27:Z1:356:LEU:HB3	27:Z1:358:ARG:CZ	2.48	0.43
27:Z1:628:MET:HG3	27:Z1:632:LYS:CE	2.47	0.43
27:Z2:420:ILE:HD13	27:Z2:424:PRO:CD	2.48	0.43
28:a2:1040:ARG:N	28:a2:1041:PRO:CD	2.80	0.43
1:A2:1204:TRP:HE3	1:A1:648:TYR:HB3	1.83	0.43
1:A2:1399:ARG:CB	4:D1:872:LEU:HD13	2.38	0.43
1:A3:1204:TRP:CD1	1:A4:648:TYR:HE1	1.65	0.43
1:A4:521:ASN:HB2	4:D3:1019:ARG:HH21	0.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:138:ILE:CB	9:I1:1391:THR:HB	2.48	0.43
7:G2:250:THR:C	15:O4:251:ILE:HG22	2.43	0.43
9:I1:1119:ARG:HH12	10:J1:240:GLY:HA3	1.84	0.43
9:I1:1182:GLN:NE2	10:J1:245:GLU:CB	2.79	0.43
9:I2:889:THR:N	13:M3:594:LYS:CD	2.56	0.43
9:I2:1032:THR:N	13:M3:618:GLN:N	2.66	0.43
9:I2:1122:ASN:O	9:I2:1126:HIS:ND1	2.42	0.43
14:N3:429:GLU:OE2	14:N3:429:GLU:N	2.52	0.43
17:Q1:97:GLY:HA3	17:Q1:110:ILE:HD11	1.99	0.43
17:Q1:164:LEU:HD22	17:Q1:164:LEU:N	2.33	0.43
17:Q1:228:ILE:HG13	17:Q1:249:ASN:H	1.84	0.43
17:Q1:381:TYR:OH	17:Q1:429:VAL:HG11	2.18	0.43
17:Q1:400:PHE:HD1	17:Q1:460:TYR:CD1	2.37	0.43
17:Q1:506:LYS:CD	17:Q1:538:ILE:HD11	2.48	0.43
17:Q1:542:ASN:OD1	17:Q1:563:PHE:HD2	2.00	0.43
17:Q1:690:ARG:HB3	17:Q1:690:ARG:CZ	2.47	0.43
17:Q1:900:MET:CG	17:Q1:931:SER:HB3	2.48	0.43
17:Q1:925:ASN:CB	18:R1:692:SER:HB2	2.49	0.43
17:Q1:1081:VAL:HG22	17:Q1:1129:LEU:HD23	2.00	0.43
17:Q2:165:ILE:HD13	17:Q2:174:TYR:CD1	2.54	0.43
17:Q2:264:ASN:HB3	17:Q2:289:LYS:CD	2.44	0.43
17:Q2:470:LYS:HZ2	17:Q2:470:LYS:CB	2.32	0.43
17:Q2:506:LYS:CD	17:Q2:538:ILE:HD11	2.49	0.43
17:Q2:672:LEU:HD22	17:Q2:672:LEU:N	2.33	0.43
17:Q2:726:THR:OG1	17:Q2:792:LEU:HD23	2.19	0.43
17:Q2:786:LEU:HB3	17:Q2:811:LEU:CG	2.46	0.43
17:Q2:960:ILE:CG2	17:Q2:991:LEU:HD11	2.28	0.43
17:Q2:1086:ASP:HB3	17:Q2:1089:LEU:HG	2.00	0.43
19:R2:210:MET:SD	20:S2:333:ILE:HG23	2.59	0.43
19:R2:314:ILE:HD12	20:S2:309:LYS:CE	2.48	0.43
19:R2:533:LEU:HD21	19:R2:537:PHE:CE2	2.54	0.43
20:S1:571:ALA:CB	21:T1:86:ASN:HB3	2.39	0.43
20:S2:391:CYS:O	20:S2:395:ILE:HD11	2.17	0.43
20:S2:400:LEU:HB3	20:S2:426:TYR:OH	2.18	0.43
21:T1:63:HIS:CD2	21:T1:64:PRO:HD2	2.53	0.43
22:U1:245:ILE:CG1	27:Z1:657:TYR:CZ	3.00	0.43
22:U2:131:ASP:OD2	22:U2:135:ARG:NH2	2.51	0.43
23:V1:285:VAL:O	23:V1:289:ILE:HG13	2.18	0.43
24:W1:623:LEU:HD23	24:W1:623:LEU:HA	1.74	0.43
25:X1:821:ILE:CG2	25:X1:821:ILE:O	2.64	0.43
25:X2:714:PHE:HE2	26:Y2:1313:ALA:HA	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1335:SER:O	26:Y1:1339:PHE:CG	2.69	0.43
26:Y2:1365:ILE:CB	26:Y2:1387:LYS:HB2	2.45	0.43
27:Z1:143:VAL:CG2	27:Z1:153:MET:SD	2.79	0.43
27:Z1:184:ASP:OD1	27:Z1:197:LEU:N	2.51	0.43
27:Z1:241:THR:CG2	27:Z1:246:LYS:CE	2.91	0.43
27:Z2:158:ASN:HB3	27:Z2:161:GLU:HG2	2.00	0.43
27:Z2:194:LEU:HD22	27:Z2:211:PHE:CD2	2.53	0.43
28:a2:1015:PRO:O	28:a2:1017:THR:N	2.51	0.43
28:a2:1030:THR:HG22	28:a2:1031:CYS:N	2.33	0.43
28:a2:1034:TYR:CE2	28:a2:1041:PRO:HG2	2.52	0.43
29:b1:16:ILE:CG2	29:b1:76:PHE:O	2.51	0.43
29:b2:77:VAL:CG2	29:b2:79:PHE:CE1	2.96	0.43
1:A1:827:ILE:HG23	1:A1:849:SER:HA	1.90	0.43
1:A2:1201:ARG:CZ	1:A1:647:GLU:HB2	2.32	0.43
1:A2:1226:LEU:HD22	1:A1:647:GLU:N	2.17	0.43
1:A3:1399:ARG:NH2	4:D3:865:ASP:OD1	2.27	0.43
4:D1:437:GLY:N	4:D1:438:PRO:HD2	2.33	0.43
4:D1:1047:LEU:CD1	4:D1:1091:THR:HG22	2.49	0.43
4:D3:1056:ARG:O	4:D3:1059:GLU:HB3	2.18	0.43
4:D4:437:GLY:N	4:D4:438:PRO:HD2	2.33	0.43
6:F1:1392:LEU:N	6:F1:1393:PRO:CD	2.82	0.43
6:F2:1392:LEU:N	6:F2:1393:PRO:CD	2.82	0.43
9:I1:1279:THR:N	9:I1:1280:PRO:CD	2.82	0.43
9:I2:506:THR:HG23	9:I2:598:MET:HE3	2.01	0.43
9:I2:1160:ILE:HG22	15:O3:266:GLN:HB3	2.00	0.43
17:Q1:219:ILE:O	17:Q1:219:ILE:HG13	2.18	0.43
17:Q1:242:LEU:C	17:Q1:243:LYS:HG3	2.43	0.43
17:Q1:533:LEU:HD23	17:Q1:533:LEU:C	2.43	0.43
17:Q1:567:PHE:CE2	17:Q1:571:VAL:CG1	3.01	0.43
17:Q1:851:LEU:HG	17:Q1:881:LYS:HZ2	1.82	0.43
17:Q1:885:VAL:O	17:Q1:885:VAL:HG12	2.17	0.43
17:Q1:1029:LEU:CD2	17:Q1:1037:LEU:HD12	2.48	0.43
17:Q2:242:LEU:C	17:Q2:243:LYS:HG3	2.43	0.43
17:Q2:244:LEU:HD23	17:Q2:244:LEU:C	2.43	0.43
17:Q2:509:ALA:HB1	17:Q2:573:LYS:HZ1	1.82	0.43
17:Q2:556:HIS:O	17:Q2:559:VAL:HB	2.19	0.43
17:Q2:681:ILE:CG2	17:Q2:682:LEU:N	2.82	0.43
17:Q2:718:ILE:CG2	17:Q2:722:PHE:CE1	2.95	0.43
17:Q2:752:GLN:CG	17:Q2:808:TYR:HD1	2.32	0.43
17:Q2:900:MET:CG	17:Q2:931:SER:HB3	2.48	0.43
17:Q2:960:ILE:O	17:Q2:964:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:635:LEU:CD1	18:R1:655:ILE:CG2	2.97	0.43
19:R2:143:LYS:HG3	19:R2:144:TRP:N	2.32	0.43
19:R2:390:THR:O	19:R2:394:ILE:HG12	2.19	0.43
19:R2:596:GLU:HG3	19:R2:620:LEU:HB2	2.00	0.43
20:S1:344:TRP:C	20:S1:346:THR:H	2.27	0.43
20:S1:391:CYS:O	20:S1:395:ILE:HD11	2.18	0.43
23:V1:58:ILE:HG22	23:V1:59:GLU:N	2.33	0.43
23:V1:328:LEU:HA	23:V1:331:TYR:HB2	2.00	0.43
24:W1:534:ASP:HA	24:W1:537:THR:OG1	2.18	0.43
24:W2:499:SER:O	24:W2:500:GLU:C	2.60	0.43
24:W2:534:ASP:HA	24:W2:537:THR:OG1	2.18	0.43
24:W2:668:TYR:CZ	24:W2:672:LYS:HE3	2.53	0.43
25:X1:651:SER:HA	25:X1:654:HIS:ND1	2.34	0.43
25:X1:819:ASN:HA	25:X1:822:LYS:HD2	1.99	0.43
25:X2:679:LEU:CA	26:Y2:1281:MET:HE1	2.43	0.43
25:X2:695:GLN:C	27:Z2:48:VAL:HG12	2.41	0.43
26:Y1:1443:MET:HE3	27:Z1:332:GLU:OE1	0.61	0.43
27:Z1:212:LEU:CA	27:Z1:213:PRO:CD	2.96	0.43
27:Z2:10:LEU:HD12	27:Z2:10:LEU:HA	1.83	0.43
27:Z2:212:LEU:CA	27:Z2:213:PRO:CD	2.96	0.43
27:Z2:288:ASN:C	28:a1:1064:SER:HB3	2.43	0.43
27:Z2:318:SER:OG	27:Z2:318:SER:O	2.36	0.43
27:Z2:374:TYR:CE1	27:Z2:383:GLN:HG2	2.53	0.43
27:Z2:642:ASN:N	27:Z2:645:VAL:HG23	2.32	0.43
27:Z2:669:THR:HG23	27:Z2:680:TRP:CE2	2.48	0.43
28:a1:972:ILE:HD11	28:a1:1019:LEU:CB	2.43	0.43
29:b1:55:ASN:CG	29:b1:56:THR:C	2.86	0.43
1:A2:1233:GLN:HA	1:A1:587:VAL:CG1	2.48	0.43
1:A3:199:PHE:HA	2:B3:353:LEU:HA	1.99	0.43
1:A3:1400:SER:HB3	4:D3:873:GLN:HB2	1.99	0.43
4:D2:437:GLY:N	4:D2:438:PRO:HD2	2.33	0.43
4:D4:1043:VAL:N	4:D4:1044:PRO:HD2	2.34	0.43
6:F1:134:ASP:OD2	6:F1:1056:ARG:NH2	2.51	0.43
6:F2:134:ASP:OD2	6:F2:1056:ARG:NH2	2.51	0.43
9:I2:810:GLU:OE2	15:O3:249:ARG:HB2	2.19	0.43
9:I2:916:ALA:HB2	15:O3:192:HIS:ND1	2.33	0.43
17:Q1:365:THR:HG21	17:Q1:433:LEU:CD2	2.48	0.43
17:Q1:378:PHE:HE1	17:Q1:435:SER:HG	1.64	0.43
17:Q1:516:LEU:CD1	17:Q1:573:LYS:HZ1	2.31	0.43
17:Q1:584:LYS:CE	17:Q1:708:TRP:CH2	2.95	0.43
17:Q1:616:LYS:HG2	17:Q1:630:THR:CG2	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:672:LEU:HD22	17:Q1:672:LEU:N	2.33	0.43
17:Q1:681:ILE:CG2	17:Q1:682:LEU:N	2.81	0.43
17:Q1:887:TRP:CB	17:Q1:903:LEU:CD2	2.96	0.43
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CE1	2.87	0.43
17:Q2:584:LYS:HB3	17:Q2:586:ASP:N	2.33	0.43
17:Q2:615:GLU:HG3	17:Q2:645:ILE:CG2	2.36	0.43
17:Q2:838:GLU:HG3	17:Q2:839:PHE:N	2.33	0.43
17:Q2:980:ILE:HG23	17:Q2:981:ARG:N	2.34	0.43
17:Q2:1006:TYR:CE2	17:Q2:1017:ILE:HD12	2.54	0.43
18:R1:210:MET:SD	20:S1:333:ILE:HG23	2.59	0.43
18:R1:462:ILE:CG2	18:R1:463:GLU:N	2.82	0.43
18:R1:465:ILE:HG23	18:R1:466:ASN:N	2.33	0.43
19:R2:81:LEU:HD12	19:R2:350:VAL:HG12	2.00	0.43
19:R2:678:LEU:CG	19:R2:679:LYS:N	2.82	0.43
20:S2:311:ALA:HB1	20:S2:316:ASN:O	2.18	0.43
20:S2:365:SER:HB3	20:S2:368:GLU:HB2	2.01	0.43
23:V1:215:SER:HB2	23:V1:390:TRP:CZ2	2.53	0.43
23:V1:335:PHE:O	23:V1:339:ILE:HG13	2.19	0.43
23:V2:335:PHE:O	23:V2:339:ILE:HG13	2.18	0.43
24:W2:658:HIS:HA	24:W2:661:GLN:OE1	2.18	0.43
25:X1:665:TRP:CZ2	25:X1:669:LEU:CD1	2.87	0.43
25:X2:694:ASP:OD2	27:Z2:434:GLN:HB2	2.18	0.43
26:Y2:1126:LEU:HB2	29:b2:63:LYS:O	2.18	0.43
26:Y2:1332:LYS:HE2	27:Z1:97:TYR:N	2.33	0.43
27:Z1:25:TYR:OH	27:Z1:69:PHE:O	2.36	0.43
29:b2:78:TYR:OH	29:b2:80:TYR:CE2	2.72	0.43
1:A2:1203:TYR:C	1:A1:599:ARG:HH21	2.23	0.43
1:A3:1196:GLU:O	1:A3:1200:ARG:HD3	2.19	0.43
4:D2:1043:VAL:N	4:D2:1044:PRO:HD2	2.34	0.43
6:F1:1120:HIS:O	6:F1:1124:THR:HG23	2.18	0.43
6:F1:1265:GLN:HG3	15:O2:249:ARG:C	2.43	0.43
7:G1:251:TYR:O	15:O2:246:LEU:CA	2.66	0.43
9:I1:767:ASP:CG	13:M1:546:ARG:NH1	2.77	0.43
9:I2:72:GLU:N	9:I2:72:GLU:OE1	2.52	0.43
9:I2:900:ARG:CB	13:M3:584:GLN:OE1	2.67	0.43
9:I2:909:ARG:C	13:M3:580:LYS:HZ1	2.27	0.43
9:I2:963:LEU:HB3	16:P3:151:LYS:HD2	1.05	0.43
9:I2:1031:ALA:C	13:M3:618:GLN:HG3	2.43	0.43
9:I2:1099:ARG:HG2	15:O3:268:GLY:CA	2.33	0.43
14:N4:429:GLU:OE2	14:N4:429:GLU:N	2.52	0.43
17:Q1:470:LYS:HZ2	17:Q1:470:LYS:CB	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:542:ASN:HD21	17:Q1:564:PHE:HB2	1.80	0.43
17:Q1:584:LYS:HB3	17:Q1:586:ASP:N	2.34	0.43
17:Q1:745:ILE:CD1	17:Q1:800:GLN:CG	2.94	0.43
17:Q1:856:LYS:CB	17:Q1:859:ASP:HB2	2.37	0.43
17:Q2:181:ILE:HG21	17:Q2:183:ASN:ND2	2.34	0.43
17:Q2:305:THR:CG2	17:Q2:306:LYS:N	2.82	0.43
17:Q2:351:ILE:CG2	17:Q2:352:TYR:N	2.82	0.43
17:Q2:890:GLN:OE1	17:Q2:898:ASP:HB3	2.19	0.43
17:Q2:1009:LEU:HB2	17:Q2:1014:SER:OG	2.18	0.43
17:Q2:1081:VAL:HG22	17:Q2:1129:LEU:HD23	2.01	0.43
18:R1:510:LEU:N	18:R1:510:LEU:HD22	2.34	0.43
19:R2:23:LYS:HD2	19:R2:434:THR:HG21	2.00	0.43
19:R2:721:THR:CA	19:R2:724:LEU:CD1	2.95	0.43
20:S1:168:LYS:HE2	21:T1:45:LEU:HB2	2.01	0.43
22:U1:205:ALA:C	27:Z1:668:GLU:OE1	2.61	0.43
23:V1:148:MET:HE3	23:V1:152:LEU:HG	2.00	0.43
23:V1:202:SER:HA	23:V1:297:LYS:O	2.18	0.43
23:V2:148:MET:HE3	23:V2:152:LEU:HG	2.00	0.43
24:W2:601:PHE:O	24:W2:602:ILE:C	2.61	0.43
25:X1:648:LEU:HD21	27:Z1:535:PHE:CE1	2.53	0.43
26:Y1:1314:LYS:O	26:Y1:1318:LEU:CG	2.65	0.43
26:Y2:1229:MET:HB3	26:Y2:1233:ARG:NH1	2.34	0.43
27:Z2:58:ASN:ND2	27:Z2:60:SER:OG	2.47	0.43
27:Z2:280:LYS:CE	27:Z2:340:ASP:OD1	2.63	0.43
27:Z2:564:LEU:O	27:Z2:568:CYS:SG	2.63	0.43
28:a1:1035:ALA:O	28:a1:1036:ASN:C	2.62	0.43
29:b1:46:LYS:HB2	29:b1:59:VAL:HG22	2.00	0.43
29:b2:57:TRP:CZ3	29:b2:88:VAL:HG12	2.53	0.43
1:A2:1017:THR:HG21	1:A2:1048:ARG:NH1	2.33	0.43
4:D1:1037:GLN:N	4:D1:1038:PRO:HD2	2.33	0.43
4:D1:1043:VAL:N	4:D1:1044:PRO:HD2	2.34	0.43
4:D3:522:VAL:HG21	4:D3:569:GLU:HG2	2.01	0.43
4:D3:1047:LEU:CD1	4:D3:1091:THR:HG22	2.49	0.43
4:D4:1047:LEU:CD1	4:D4:1091:THR:HG22	2.49	0.43
6:F1:156:LEU:CD1	9:I1:1392:VAL:HG22	2.49	0.43
6:F1:983:SER:CB	9:I1:1459:ASN:OD1	2.65	0.43
9:I1:976:ARG:NH1	15:O1:174:LEU:HG	2.33	0.43
9:I1:978:LYS:CG	15:O1:176:ARG:HB3	2.49	0.43
9:I2:923:GLY:HA2	15:O3:190:ARG:NH2	2.26	0.43
9:I2:1308:THR:CB	14:N3:414:ALA:N	2.74	0.43
15:O3:98:TYR:HD2	15:O3:125:ALA:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:276:LEU:HD11	17:Q1:282:LEU:HD23	1.96	0.43
17:Q1:636:ILE:HG13	17:Q1:637:ASN:H	1.83	0.43
17:Q1:759:TRP:CH2	17:Q1:779:ASN:ND2	2.87	0.43
17:Q1:888:ILE:CG2	17:Q1:889:GLN:N	2.82	0.43
17:Q1:922:LEU:HD13	18:R1:688:LEU:C	2.44	0.43
17:Q1:922:LEU:CG	18:R1:688:LEU:HB3	2.48	0.43
17:Q1:943:THR:O	17:Q1:946:LYS:HD2	2.19	0.43
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CZ	2.87	0.43
17:Q2:400:PHE:HD1	17:Q2:460:TYR:CD1	2.37	0.43
17:Q2:527:ILE:CD1	17:Q2:530:ASP:CB	2.95	0.43
17:Q2:681:ILE:HG23	17:Q2:682:LEU:N	2.32	0.43
17:Q2:802:ILE:CG2	17:Q2:803:GLN:N	2.82	0.43
17:Q2:933:LEU:HD23	19:R2:711:LEU:HB2	1.99	0.43
17:Q2:1068:GLU:O	17:Q2:1069:GLU:HB2	2.19	0.43
17:Q2:1143:GLU:HA	17:Q2:1143:GLU:OE1	2.18	0.43
18:R1:81:LEU:HD12	18:R1:350:VAL:HG12	2.00	0.43
18:R1:382:LYS:HA	18:R1:383:PRO:HD3	1.77	0.43
19:R2:109:LEU:HD23	19:R2:298:ILE:HG13	2.00	0.43
19:R2:682:LYS:CG	19:R2:683:PHE:H	2.19	0.43
20:S1:400:LEU:HB3	20:S1:426:TYR:OH	2.18	0.43
23:V1:508:LEU:HG	23:V1:522:MET:HE3	2.01	0.43
23:V2:202:SER:HA	23:V2:297:LYS:O	2.18	0.43
26:Y1:1406:VAL:HG12	26:Y1:1410:GLN:NE2	2.34	0.43
26:Y1:1446:LYS:HB3	27:Z1:330:ASP:OD1	2.18	0.43
26:Y2:1236:ASP:O	26:Y2:1239:PHE:CD2	2.71	0.43
26:Y2:1443:MET:HE3	27:Z2:332:GLU:OE1	0.62	0.43
27:Z1:431:TRP:N	27:Z1:434:GLN:O	2.49	0.43
27:Z2:212:LEU:HA	27:Z2:213:PRO:CD	2.49	0.43
27:Z2:356:LEU:HB3	27:Z2:358:ARG:CZ	2.48	0.43
27:Z2:431:TRP:N	27:Z2:434:GLN:O	2.49	0.43
28:a2:1035:ALA:O	28:a2:1036:ASN:C	2.62	0.43
1:A2:1204:TRP:CD1	1:A1:599:ARG:CG	3.02	0.43
1:A2:1271:ILE:HG12	1:A1:730:THR:HB	2.00	0.43
4:D1:522:VAL:HG21	4:D1:569:GLU:HG2	2.01	0.43
6:F1:158:PRO:HG3	9:I1:1340:LEU:CB	2.49	0.43
6:F1:1265:GLN:HG3	15:O2:252:VAL:CG2	2.48	0.43
9:I1:352:ASN:OD1	9:I1:353:LEU:N	2.52	0.43
9:I1:980:ILE:HG13	15:O1:172:ALA:O	2.13	0.43
9:I1:1667:GLN:HA	9:I2:1668:HIS:CA	2.49	0.43
9:I2:916:ALA:HB3	15:O3:189:ARG:O	0.61	0.43
9:I2:963:LEU:HD13	16:P3:147:LEU:C	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:967:SER:O	16:P3:149:ARG:CB	2.60	0.43
9:I2:1255:HIS:CD2	14:N3:408:MET:N	2.81	0.43
17:Q1:58:SER:HB2	17:Q1:70:LYS:CE	2.43	0.43
17:Q1:139:ILE:CG2	17:Q1:211:MET:HE1	2.49	0.43
17:Q1:644:VAL:CG1	17:Q1:645:ILE:N	2.82	0.43
17:Q1:1016:PHE:CZ	17:Q1:1070:LEU:HD21	2.45	0.43
17:Q2:142:PHE:CG	17:Q2:143:PRO:CD	3.02	0.43
17:Q2:465:LEU:HD13	17:Q2:466:TYR:C	2.43	0.43
17:Q2:570:PHE:CZ	17:Q2:574:ASN:ND2	2.86	0.43
17:Q2:891:ILE:HD11	19:R2:715:LEU:HD11	2.01	0.43
17:Q2:958:LYS:C	17:Q2:958:LYS:HE2	2.44	0.43
18:R1:314:ILE:HD12	20:S1:309:LYS:CE	2.48	0.43
18:R1:634:PHE:CZ	18:R1:635:LEU:CG	2.95	0.43
20:S1:311:ALA:HB1	20:S1:316:ASN:O	2.18	0.43
20:S1:365:SER:HB3	20:S1:368:GLU:HB2	2.01	0.43
21:T2:52:HIS:CE1	21:T2:80:LEU:HD12	2.53	0.43
23:V1:221:GLU:HA	23:V1:224:ILE:HG13	2.00	0.43
23:V2:508:LEU:HG	23:V2:522:MET:HE3	2.01	0.43
24:W1:177:PHE:HD1	24:W1:183:LEU:HD22	1.84	0.43
25:X1:648:LEU:CG	27:Z2:547:VAL:CG1	2.84	0.43
25:X2:684:VAL:HG12	27:Z2:445:LEU:HD12	1.99	0.43
26:Y1:1228:LEU:HB3	27:Z1:543:GLN:HB3	1.90	0.43
26:Y2:1302:ASP:O	26:Y2:1306:ILE:CG1	2.45	0.43
27:Z1:194:LEU:HD22	27:Z1:211:PHE:CD2	2.53	0.43
27:Z1:319:PHE:CE2	27:Z1:325:ILE:HG13	2.54	0.43
27:Z1:326:LEU:O	27:Z1:350:LEU:HD12	2.19	0.43
27:Z1:550:HIS:HE1	27:Z2:357:GLN:OE1	2.02	0.43
27:Z2:78:ASP:O	27:Z2:78:ASP:OD1	2.37	0.43
27:Z2:184:ASP:OD1	27:Z2:197:LEU:N	2.51	0.43
27:Z2:212:LEU:C	27:Z2:213:PRO:CD	2.77	0.43
27:Z2:329:LYS:CE	27:Z2:333:MET:CG	2.88	0.43
28:a2:983:SER:C	28:a2:985:LEU:N	2.76	0.43
29:b1:38:GLU:CD	29:b1:61:VAL:CG1	2.63	0.43
1:A2:1224:PRO:C	1:A1:598:VAL:HG21	2.43	0.43
1:A2:1328:ARG:CD	4:D1:976:ARG:HD3	2.45	0.43
1:A3:1086:LYS:CB	4:D3:1096:TYR:CE2	2.90	0.43
4:D2:1037:GLN:N	4:D2:1038:PRO:HD2	2.33	0.43
4:D4:522:VAL:HG21	4:D4:569:GLU:HG2	2.01	0.43
4:D4:1037:GLN:N	4:D4:1038:PRO:HD2	2.33	0.43
6:F1:135:VAL:HG13	9:I1:1336:MET:HG3	1.83	0.43
6:F1:1807:GLU:HA	14:N2:411:GLN:HE22	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F2:1837:LYS:O	6:F2:1841:LEU:HD13	2.18	0.43
9:I2:968:PRO:CD	14:N3:300:ALA:HB1	2.47	0.43
9:I2:1108:PRO:HB3	15:O3:278:GLU:C	2.42	0.43
9:I2:1279:THR:N	9:I2:1280:PRO:CD	2.81	0.43
15:O4:156:ILE:HG22	15:O4:157:THR:N	2.34	0.43
16:P1:147:LEU:O	16:P1:151:LYS:N	2.52	0.43
17:Q1:103:LYS:HG3	17:Q1:104:LYS:HG3	2.01	0.43
17:Q1:391:THR:CG2	17:Q1:392:ASP:N	2.82	0.43
17:Q1:545:TYR:CZ	17:Q1:546:ILE:HG23	2.54	0.43
17:Q1:630:THR:CG2	17:Q1:631:THR:N	2.81	0.43
17:Q1:689:ILE:CG2	17:Q1:690:ARG:N	2.82	0.43
17:Q1:856:LYS:O	17:Q1:859:ASP:HB2	2.18	0.43
17:Q1:960:ILE:O	17:Q1:964:LEU:HG	2.19	0.43
17:Q1:980:ILE:CG2	17:Q1:981:ARG:N	2.82	0.43
17:Q1:1143:GLU:HA	17:Q1:1143:GLU:OE1	2.18	0.43
17:Q2:139:ILE:O	17:Q2:139:ILE:HG23	2.19	0.43
17:Q2:689:ILE:CG2	17:Q2:690:ARG:N	2.82	0.43
17:Q2:748:ILE:HG23	17:Q2:749:LEU:N	2.32	0.43
17:Q2:1047:LEU:HD13	17:Q2:1047:LEU:O	2.19	0.43
18:R1:527:VAL:CG2	18:R1:528:HIS:N	2.82	0.43
18:R1:538:LEU:HG	18:R1:659:TYR:HE1	1.77	0.43
18:R1:660:THR:HG23	18:R1:661:PRO:CD	2.45	0.43
19:R2:527:VAL:HG12	19:R2:557:GLU:HG3	2.01	0.43
19:R2:543:VAL:HG12	19:R2:594:ILE:CD1	2.49	0.43
19:R2:617:ILE:HD11	19:R2:670:LYS:HG2	2.00	0.43
19:R2:678:LEU:CG	19:R2:679:LYS:H	2.32	0.43
22:U1:107:SER:HA	22:U1:135:ARG:HH21	1.83	0.43
23:V2:141:ASN:N	23:V2:141:ASN:HD22	2.16	0.43
24:W2:92:THR:HG21	24:W2:479:TYR:OH	2.19	0.43
24:W2:386:LEU:HD23	24:W2:621:GLN:HA	2.01	0.43
24:W2:508:LYS:O	24:W2:512:THR:HG23	2.19	0.43
25:X1:665:TRP:CH2	27:Z1:556:GLN:CA	2.82	0.43
25:X1:811:SER:C	26:Y1:1402:LEU:CD1	2.74	0.43
25:X2:687:GLU:OE2	27:Z2:573:LYS:CD	2.55	0.43
25:X2:695:GLN:CA	27:Z2:431:TRP:HA	2.49	0.43
26:Y2:1267:GLU:CG	26:Y2:1268:ILE:N	2.82	0.43
26:Y2:1277:LYS:NZ	27:Z2:571:ILE:N	2.57	0.43
27:Z1:223:LEU:HD12	27:Z1:263:TRP:CZ2	2.54	0.43
27:Z1:420:ILE:HD13	27:Z1:424:PRO:CD	2.48	0.43
27:Z2:115:SER:HB2	27:Z2:117:ASP:OD1	2.19	0.43
27:Z2:240:THR:O	27:Z2:240:THR:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:a1:1060:PRO:HG3	28:a1:1080:HIS:CD2	2.54	0.43
1:A3:1328:ARG:CZ	4:D3:872:LEU:HD21	2.48	0.43
4:D1:836:LEU:HA	4:D1:850:VAL:HG12	2.01	0.43
4:D2:461:PRO:HG2	4:D2:747:TYR:CE1	2.53	0.43
4:D4:1056:ARG:O	4:D4:1059:GLU:HB3	2.18	0.43
9:I1:923:GLY:H	15:O1:191:ARG:HG3	1.82	0.43
9:I1:1311:LEU:C	9:I1:1311:LEU:HD13	2.44	0.43
9:I2:806:VAL:C	15:O3:244:GLU:HB3	2.29	0.43
9:I2:894:VAL:CA	13:M3:587:GLU:HG2	2.48	0.43
9:I2:1032:THR:HA	13:M3:618:GLN:HA	0.84	0.43
15:O2:156:ILE:HG22	15:O2:157:THR:N	2.34	0.43
17:Q1:165:ILE:HD13	17:Q1:174:TYR:CD1	2.54	0.43
17:Q1:234:ARG:HB3	17:Q1:238:GLY:HA2	2.01	0.43
17:Q1:332:LYS:CB	17:Q1:352:TYR:CE2	2.94	0.43
17:Q1:384:ASN:HB3	17:Q1:509:ALA:H	0.27	0.43
17:Q1:688:THR:HG22	17:Q1:692:GLU:CB	2.43	0.43
17:Q1:838:GLU:HG3	17:Q1:839:PHE:N	2.33	0.43
17:Q1:1006:TYR:CE2	17:Q1:1017:ILE:HD12	2.54	0.43
17:Q1:1029:LEU:HD23	17:Q1:1033:VAL:CG1	2.49	0.43
17:Q2:811:LEU:CD2	17:Q2:814:LEU:CD2	2.97	0.43
17:Q2:887:TRP:CB	17:Q2:903:LEU:CD2	2.96	0.43
17:Q2:1016:PHE:CE1	17:Q2:1065:VAL:HG13	2.53	0.43
18:R1:77:LEU:HG	18:R1:125:TRP:CD2	2.54	0.43
18:R1:390:THR:O	18:R1:394:ILE:HG12	2.19	0.43
18:R1:555:ILE:CG2	18:R1:556:GLY:N	2.82	0.43
18:R1:558:ILE:CG2	18:R1:581:LEU:CD1	2.97	0.43
18:R1:585:THR:HG22	18:R1:589:HIS:CD2	2.54	0.43
18:R1:604:VAL:CG1	18:R1:605:SER:N	2.82	0.43
18:R1:678:LEU:HD13	18:R1:685:SER:OG	2.19	0.43
18:R1:678:LEU:CG	18:R1:679:LYS:N	2.82	0.43
19:R2:293:ILE:HD11	19:R2:327:VAL:CG2	2.49	0.43
19:R2:678:LEU:HD13	19:R2:685:SER:OG	2.19	0.43
20:S1:526:HIS:C	20:S1:528:LEU:H	2.26	0.43
20:S2:216:LEU:O	20:S2:217:LEU:HD23	2.19	0.43
20:S2:416:ASP:HA	20:S2:443:THR:CG2	2.44	0.43
21:T2:63:HIS:CD2	21:T2:64:PRO:HD2	2.53	0.43
21:T2:280:LEU:HB2	21:T2:292:ALA:O	2.19	0.43
23:V2:57:PRO:HB3	23:V2:91:TYR:OH	2.19	0.43
24:W1:295:ASN:ND2	24:W1:329:TRP:O	2.52	0.43
24:W1:627:TYR:HA	24:W1:661:GLN:OE1	2.19	0.43
25:X2:699:TYR:CB	27:Z2:49:LEU:CD1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X2:777:ASN:N	25:X2:794:ILE:HG22	2.34	0.43
26:Y1:1384:LYS:N	26:Y2:1364:ASN:HB2	2.27	0.43
26:Y2:1298:TYR:CE2	27:Z2:591:GLN:HB2	2.53	0.43
27:Z1:58:ASN:HD21	27:Z1:60:SER:HG	1.66	0.43
27:Z1:233:MET:CE	27:Z1:334:SER:HB2	2.47	0.43
27:Z1:294:LEU:HD13	27:Z1:319:PHE:CD1	2.53	0.43
27:Z1:381:ILE:CG2	27:Z1:417:ILE:CG1	2.84	0.43
27:Z1:401:ASP:O	27:Z2:262:ASN:HB3	2.16	0.43
27:Z1:634:ILE:HG23	27:Z1:638:ILE:HD11	2.00	0.43
27:Z2:233:MET:CE	27:Z2:334:SER:HB2	2.47	0.43
27:Z2:297:TYR:CG	27:Z2:321:ASP:CG	2.95	0.43
27:Z2:326:LEU:O	27:Z2:350:LEU:HD12	2.19	0.43
27:Z2:598:LEU:CD2	27:Z2:601:ARG:NH2	2.63	0.43
1:A1:827:ILE:HB	1:A1:849:SER:N	2.31	0.43
1:A2:890:ALA:C	1:A2:892:SER:H	2.27	0.42
1:A2:1228:TYR:CE1	1:A1:643:ALA:N	2.87	0.42
1:A3:1223:GLU:CB	1:A4:648:TYR:CE2	0.81	0.42
1:A4:1196:GLU:O	1:A4:1200:ARG:HD3	2.19	0.42
4:D1:395:LEU:HD11	4:D1:735:VAL:HG21	2.01	0.42
4:D3:1043:VAL:N	4:D3:1044:PRO:HD2	2.34	0.42
6:F1:133:GLN:HB2	9:I1:1389:GLN:NE2	2.33	0.42
6:F2:1267:ARG:HH11	15:O4:262:ASP:HB3	1.68	0.42
6:F2:1267:ARG:NE	15:O4:259:ASP:CG	2.77	0.42
9:I1:918:SER:N	15:O1:193:ALA:H	2.03	0.42
9:I1:965:ALA:CB	15:O1:185:ALA:CB	2.73	0.42
9:I2:1095:TYR:CE1	15:O3:266:GLN:O	2.35	0.42
9:I2:1099:ARG:HB3	13:M3:610:SER:C	2.43	0.42
9:I2:1106:LYS:HB3	15:O3:280:GLU:OE2	2.19	0.42
9:I2:1302:ARG:O	9:I2:1306:LEU:HD13	2.19	0.42
9:I2:1308:THR:HG21	14:N3:414:ALA:HB2	1.99	0.42
13:M3:473:ARG:NH2	13:M4:540:TRP:CD2	2.86	0.42
17:Q1:394:LYS:CG	17:Q1:395:PHE:N	2.82	0.42
17:Q1:517:PRO:CA	17:Q1:520:ILE:HG22	2.39	0.42
17:Q1:545:TYR:CD1	17:Q1:546:ILE:HG23	2.54	0.42
17:Q1:611:ASN:CA	17:Q1:614:TRP:HE3	2.26	0.42
17:Q1:617:THR:CG2	17:Q1:618:LEU:N	2.82	0.42
17:Q1:631:THR:HG23	17:Q1:634:VAL:CG1	2.45	0.42
17:Q1:752:GLN:CG	17:Q1:808:TYR:HD1	2.32	0.42
17:Q1:801:CYS:SG	17:Q1:814:LEU:CD1	3.07	0.42
17:Q1:854:HIS:CG	18:R1:726:ASN:ND2	2.87	0.42
17:Q1:890:GLN:OE1	17:Q1:898:ASP:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:991:LEU:HD23	17:Q1:991:LEU:C	2.44	0.42
17:Q1:1047:LEU:HD13	17:Q1:1047:LEU:O	2.19	0.42
17:Q1:1049:ASN:OD1	17:Q1:1055:ASP:HA	2.19	0.42
17:Q1:1068:GLU:O	17:Q1:1069:GLU:HB2	2.19	0.42
17:Q2:103:LYS:HG3	17:Q2:104:LYS:HG3	2.01	0.42
17:Q2:210:LEU:HD13	17:Q2:211:MET:CA	2.48	0.42
17:Q2:427:THR:CG2	17:Q2:428:GLN:N	2.81	0.42
17:Q2:545:TYR:CZ	17:Q2:546:ILE:HG23	2.54	0.42
17:Q2:670:THR:CB	17:Q2:743:LEU:HD13	2.49	0.42
17:Q2:795:VAL:CG1	17:Q2:796:ASN:N	2.82	0.42
17:Q2:1024:VAL:CG2	17:Q2:1025:ASP:N	2.82	0.42
17:Q2:1049:ASN:OD1	17:Q2:1055:ASP:HA	2.19	0.42
17:Q2:1150:TYR:CD2	17:Q2:1150:TYR:C	2.98	0.42
18:R1:535:ARG:HD3	18:R1:583:GLU:OE1	2.19	0.42
18:R1:596:GLU:HG2	18:R1:620:LEU:N	2.34	0.42
18:R1:596:GLU:HG3	18:R1:620:LEU:HB2	2.00	0.42
19:R2:590:LEU:CD1	19:R2:594:ILE:HD11	2.49	0.42
19:R2:596:GLU:HG2	19:R2:620:LEU:N	2.34	0.42
20:S1:452:TRP:CD1	20:S1:475:THR:HA	2.54	0.42
20:S2:203:ARG:NE	20:S2:210:GLN:HB2	2.34	0.42
20:S2:344:TRP:C	20:S2:346:THR:H	2.27	0.42
20:S2:526:HIS:C	20:S2:528:LEU:H	2.26	0.42
22:U1:303:HIS:HA	22:U1:325:ASP:OD2	2.19	0.42
23:V2:328:LEU:HA	23:V2:331:TYR:HB2	2.00	0.42
25:X2:655:PHE:HE1	27:Z1:534:GLU:CD	2.18	0.42
26:Y1:1298:TYR:CE2	27:Z1:591:GLN:HB2	2.54	0.42
27:Z1:78:ASP:OD1	27:Z1:78:ASP:C	2.62	0.42
27:Z1:85:ASP:CA	27:Z1:127:ILE:HG13	2.49	0.42
27:Z1:128:LYS:CE	27:Z1:147:GLU:HB3	2.47	0.42
27:Z2:15:ALA:O	27:Z2:16:SER:CB	2.66	0.42
27:Z2:85:ASP:CA	27:Z2:127:ILE:HG13	2.49	0.42
27:Z2:116:ILE:HD11	27:Z2:125:SER:N	2.34	0.42
27:Z2:120:GLU:O	27:Z2:124:LYS:CE	2.67	0.42
29:b1:56:THR:HB	29:b1:56:THR:O	2.19	0.42
29:b1:71:HIS:HB2	29:b1:76:PHE:HD1	1.78	0.42
1:A2:780:GLU:HG3	1:A2:822:ILE:HG23	2.01	0.42
1:A2:1230:TYR:CE1	1:A1:590:SER:C	2.97	0.42
1:A2:1331:GLU:O	4:D1:899:THR:O	2.37	0.42
1:A3:1270:SER:HA	1:A4:729:SER:HB3	1.05	0.42
5:E3:67:ASP:N	5:E3:68:PRO:CD	2.82	0.42
5:E4:67:ASP:N	5:E4:68:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G1:251:TYR:O	15:O2:246:LEU:CB	2.67	0.42
9:I1:72:GLU:N	9:I1:72:GLU:OE1	2.52	0.42
9:I1:506:THR:HG23	9:I1:598:MET:HE3	2.01	0.42
9:I2:352:ASN:OD1	9:I2:353:LEU:N	2.52	0.42
9:I2:480:ASP:OD1	9:I2:481:ALA:N	2.51	0.42
15:O1:98:TYR:HD2	15:O1:125:ALA:HB2	1.83	0.42
16:P2:147:LEU:O	16:P2:151:LYS:N	2.52	0.42
17:Q1:704:SER:O	17:Q1:710:ILE:HD12	2.19	0.42
17:Q1:716:ASN:HA	17:Q1:719:ASN:CB	2.49	0.42
17:Q1:802:ILE:CG2	17:Q1:803:GLN:N	2.82	0.42
17:Q1:960:ILE:CG2	17:Q1:961:SER:N	2.82	0.42
17:Q2:141:THR:CG2	17:Q2:163:GLY:CA	2.95	0.42
17:Q2:264:ASN:CA	17:Q2:289:LYS:HB2	2.48	0.42
17:Q2:268:VAL:CG1	17:Q2:334:TRP:C	2.92	0.42
17:Q2:570:PHE:CE1	17:Q2:574:ASN:ND2	2.87	0.42
17:Q2:688:THR:CG2	17:Q2:692:GLU:HG2	2.44	0.42
17:Q2:815:VAL:HG23	17:Q2:816:GLN:N	2.33	0.42
17:Q2:887:TRP:HA	17:Q2:890:GLN:HG2	2.01	0.42
17:Q2:888:ILE:CG2	17:Q2:889:GLN:N	2.82	0.42
17:Q2:943:THR:O	17:Q2:946:LYS:HD2	2.19	0.42
17:Q2:975:PHE:CE1	17:Q2:1044:ARG:NH2	2.87	0.42
17:Q2:1122:THR:CG2	17:Q2:1123:LEU:N	2.82	0.42
18:R1:435:PHE:C	18:R1:448:ILE:HG12	2.43	0.42
18:R1:480:THR:CG2	18:R1:481:GLN:N	2.82	0.42
19:R2:527:VAL:CG2	19:R2:528:HIS:N	2.82	0.42
19:R2:635:LEU:CD1	19:R2:655:ILE:CB	2.94	0.42
20:S1:418:PRO:HB3	20:S1:445:ALA:HB1	2.02	0.42
20:S1:531:LEU:O	20:S1:532:LYS:HG2	2.19	0.42
22:U2:76:SER:HB3	22:U2:78:ASP:OD1	2.19	0.42
23:V1:215:SER:HB2	23:V1:390:TRP:CH2	2.54	0.42
23:V2:60:LYS:C	23:V2:62:GLY:N	2.77	0.42
23:V2:149:GLU:HG3	23:V2:186:ARG:NE	2.34	0.42
24:W1:403:ASP:H	24:W1:723:PHE:C	1.77	0.42
24:W2:59:CYS:HB2	24:W2:464:THR:OG1	2.19	0.42
24:W2:177:PHE:HD1	24:W2:183:LEU:HD22	1.84	0.42
24:W2:436:HIS:CD2	24:W2:438:GLU:H	2.38	0.42
24:W2:627:TYR:HA	24:W2:661:GLN:OE1	2.20	0.42
25:X2:651:SER:HA	25:X2:654:HIS:ND1	2.34	0.42
25:X2:821:ILE:CG2	25:X2:821:ILE:O	2.64	0.42
26:Y2:1223:ALA:O	26:Y2:1227:VAL:HG23	2.19	0.42
26:Y2:1340:ARG:CZ	27:Z1:157:LEU:HD21	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:115:SER:HB2	27:Z1:117:ASP:OD1	2.19	0.42
27:Z1:116:ILE:HD11	27:Z1:125:SER:N	2.34	0.42
27:Z1:240:THR:O	27:Z1:240:THR:HG22	2.17	0.42
27:Z1:401:ASP:OD2	27:Z2:260:HIS:O	2.37	0.42
27:Z2:26:ILE:HG21	27:Z2:440:MET:CG	2.48	0.42
27:Z2:148:ASP:HB2	27:Z2:150:THR:HG23	1.95	0.42
1:A3:1087:GLY:HA3	4:D3:1095:ARG:HG3	1.95	0.42
4:D2:836:LEU:HA	4:D2:850:VAL:HG12	2.01	0.42
4:D3:395:LEU:HD11	4:D3:735:VAL:HG21	2.01	0.42
5:E2:67:ASP:N	5:E2:68:PRO:CD	2.82	0.42
6:F2:215:ASP:OD1	6:F2:218:ARG:NH2	2.52	0.42
7:G1:250:THR:CB	15:O2:247:TRP:CH2	3.02	0.42
9:I1:480:ASP:OD1	9:I1:481:ALA:N	2.51	0.42
9:I1:962:ILE:O	15:O1:182:THR:HB	1.94	0.42
9:I2:928:LEU:HD12	15:O3:180:ASP:N	2.16	0.42
9:I2:1171:GLU:CD	15:O3:274:GLY:HA2	2.43	0.42
14:N2:368:ASN:OD1	15:O2:210:ARG:NH2	2.52	0.42
17:Q1:142:PHE:CG	17:Q1:143:PRO:CD	3.02	0.42
17:Q1:429:VAL:CG1	17:Q1:430:ASN:N	2.83	0.42
17:Q1:490:GLU:HB2	17:Q1:493:PHE:HD1	1.84	0.42
17:Q1:556:HIS:O	17:Q1:559:VAL:HB	2.18	0.42
17:Q1:847:LEU:CD2	17:Q1:875:PHE:CD2	2.94	0.42
17:Q2:391:THR:CG2	17:Q2:392:ASP:N	2.82	0.42
17:Q2:416:ILE:HG12	17:Q2:427:THR:C	2.44	0.42
17:Q2:759:TRP:CH2	17:Q2:779:ASN:ND2	2.87	0.42
17:Q2:820:THR:CG2	17:Q2:821:LEU:N	2.83	0.42
17:Q2:1040:LEU:O	17:Q2:1044:ARG:HG3	2.19	0.42
17:Q2:1087:LYS:CG	17:Q2:1117:ILE:HG21	2.50	0.42
17:Q2:1149:ASN:CG	17:Q2:1152:THR:HG23	2.44	0.42
18:R1:22:PHE:CG	18:R1:38:ILE:HD11	2.54	0.42
18:R1:543:VAL:HG12	18:R1:594:ILE:CD1	2.49	0.42
18:R1:590:LEU:CD1	18:R1:594:ILE:HD11	2.49	0.42
19:R2:22:PHE:CG	19:R2:38:ILE:HD11	2.54	0.42
19:R2:510:LEU:N	19:R2:510:LEU:HD22	2.34	0.42
19:R2:527:VAL:HG23	19:R2:528:HIS:N	2.34	0.42
19:R2:635:LEU:CD1	19:R2:655:ILE:CG2	2.97	0.42
23:V2:58:ILE:HG22	23:V2:59:GLU:N	2.33	0.42
23:V2:269:ASP:OD1	23:V2:269:ASP:N	2.52	0.42
23:V2:454:LEU:HD21	23:V2:503:VAL:HG21	2.01	0.42
24:W1:92:THR:HG21	24:W1:479:TYR:OH	2.19	0.42
24:W1:180:ASP:HA	24:W1:220:TYR:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:386:LEU:HD23	24:W1:621:GLN:HA	2.01	0.42
24:W2:427:LEU:HD13	24:W2:442:TYR:CE1	2.54	0.42
25:X2:714:PHE:CE2	26:Y2:1316:GLU:CG	2.98	0.42
25:X2:823:LYS:C	27:Z1:259:LEU:HA	2.42	0.42
26:Y2:1125:ASP:N	26:Y2:1126:LEU:CD1	2.79	0.42
26:Y2:1406:VAL:HG12	26:Y2:1410:GLN:NE2	2.34	0.42
27:Z1:401:ASP:HA	27:Z2:261:GLU:HB3	2.01	0.42
27:Z2:129:LYS:HG2	27:Z2:145:LEU:CB	2.21	0.42
28:a2:1060:PRO:HG3	28:a2:1080:HIS:CD2	2.54	0.42
1:A1:1196:GLU:O	1:A1:1200:ARG:HD3	2.19	0.42
1:A2:1203:TYR:O	1:A1:599:ARG:NH2	2.51	0.42
1:A2:1226:LEU:CD1	1:A1:646:ILE:CB	2.95	0.42
1:A2:1332:ARG:O	4:D1:905:SER:HB2	2.19	0.42
4:D4:395:LEU:HD11	4:D4:735:VAL:HG21	2.01	0.42
6:F1:924:GLU:OE2	6:F1:988:ARG:NE	2.53	0.42
6:F1:997:LEU:HD11	9:I1:1391:THR:HG21	2.00	0.42
6:F2:1267:ARG:NE	15:O4:259:ASP:OD1	2.52	0.42
15:O4:75:ILE:N	15:O4:76:PRO:CD	2.83	0.42
17:Q1:383:LEU:HA	17:Q1:508:ASN:CA	2.36	0.42
17:Q1:467:VAL:HG13	17:Q1:467:VAL:O	2.19	0.42
17:Q1:598:ILE:CG2	17:Q1:599:LYS:N	2.82	0.42
17:Q1:748:ILE:CG2	17:Q1:749:LEU:N	2.82	0.42
17:Q1:988:VAL:CG1	17:Q1:989:GLU:N	2.83	0.42
17:Q2:76:TYR:CG	17:Q2:470:LYS:O	2.73	0.42
17:Q2:136:PRO:HB3	17:Q2:168:LYS:HG2	2.01	0.42
17:Q2:196:LEU:HD11	17:Q2:198:LEU:HD23	1.95	0.42
17:Q2:498:VAL:CG1	17:Q2:499:ASP:N	2.82	0.42
17:Q2:538:ILE:CG2	17:Q2:539:PHE:N	2.82	0.42
17:Q2:588:ILE:CG2	17:Q2:589:GLU:N	2.82	0.42
17:Q2:598:ILE:CG2	17:Q2:599:LYS:N	2.82	0.42
17:Q2:790:HIS:O	17:Q2:793:CYS:HB2	2.19	0.42
17:Q2:824:ASN:OD1	17:Q2:832:TYR:HB2	2.19	0.42
17:Q2:828:THR:OG1	17:Q2:868:HIS:HB2	2.19	0.42
17:Q2:960:ILE:CG2	17:Q2:961:SER:N	2.82	0.42
17:Q2:980:ILE:CG2	17:Q2:981:ARG:N	2.82	0.42
17:Q2:1097:GLU:CG	17:Q2:1098:THR:N	2.82	0.42
18:R1:527:VAL:HG23	18:R1:528:HIS:N	2.33	0.42
18:R1:538:LEU:CD1	18:R1:546:LEU:CD1	2.97	0.42
18:R1:620:LEU:HD12	18:R1:670:LYS:CE	2.50	0.42
18:R1:627:THR:CG2	18:R1:628:PHE:N	2.82	0.42
18:R1:677:LEU:H	18:R1:677:LEU:CD2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:721:THR:CA	18:R1:724:LEU:CD1	2.95	0.42
19:R2:514:VAL:CG1	19:R2:515:GLU:N	2.82	0.42
19:R2:558:ILE:CG2	19:R2:581:LEU:CD1	2.97	0.42
19:R2:604:VAL:CG1	19:R2:605:SER:N	2.82	0.42
19:R2:627:THR:CG2	19:R2:628:PHE:N	2.82	0.42
20:S1:203:ARG:NE	20:S1:210:GLN:HB2	2.34	0.42
21:T1:280:LEU:HB2	21:T1:292:ALA:O	2.19	0.42
22:U1:288:LEU:O	25:X1:797:LEU:CB	2.14	0.42
24:W1:53:GLY:HA3	24:W1:71:HIS:HB3	2.01	0.42
24:W1:232:ARG:HE	24:W1:249:THR:HG1	1.65	0.42
24:W1:427:LEU:HD13	24:W1:442:TYR:CE1	2.53	0.42
24:W1:523:ASP:OD2	24:W1:738:ARG:CB	2.68	0.42
25:X2:645:THR:CA	27:Z2:535:PHE:CE2	3.02	0.42
25:X2:695:GLN:O	27:Z2:48:VAL:HG12	2.19	0.42
26:Y1:1386:ALA:HB2	26:Y2:1360:GLU:CG	2.39	0.42
26:Y2:1228:LEU:HB3	27:Z2:543:GLN:HB3	1.90	0.42
26:Y2:1269:LEU:O	26:Y2:1273:GLN:HG3	2.20	0.42
26:Y2:1321:MET:HE2	27:Z1:51:ASP:OD2	2.19	0.42
26:Y2:1453:PHE:HB2	27:Z2:349:VAL:CG1	2.49	0.42
27:Z1:451:SER:C	27:Z1:452:SER:CA	2.90	0.42
27:Z2:26:ILE:HG21	27:Z2:440:MET:SD	2.41	0.42
27:Z2:641:PHE:HZ	27:Z2:645:VAL:HG22	1.62	0.42
28:a1:966:MSE:HE2	28:a1:1020:GLY:CA	2.50	0.42
1:A1:890:ALA:C	1:A1:892:SER:H	2.27	0.42
1:A2:1223:GLU:HB3	1:A1:598:VAL:HG22	1.54	0.42
1:A3:890:ALA:C	1:A3:892:SER:H	2.27	0.42
1:A3:1223:GLU:HG3	1:A4:648:TYR:N	2.33	0.42
1:A4:890:ALA:C	1:A4:892:SER:H	2.27	0.42
5:E1:67:ASP:N	5:E1:68:PRO:CD	2.82	0.42
9:I1:1049:LEU:HD23	14:N1:294:SER:HA	2.01	0.42
9:I1:1326:GLU:OE1	10:J1:255:LEU:HD22	2.19	0.42
9:I2:968:PRO:CG	14:N3:300:ALA:CB	2.95	0.42
9:I2:978:LYS:HE2	15:O3:178:ASP:HA	1.60	0.42
9:I2:1051:LYS:HB3	14:N3:289:PHE:CD1	2.54	0.42
9:I2:1311:LEU:C	9:I2:1311:LEU:HD13	2.44	0.42
9:I2:1326:GLU:OE1	10:J2:255:LEU:HD22	2.19	0.42
15:O4:98:TYR:HD2	15:O4:125:ALA:HB2	1.83	0.42
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CZ	2.87	0.42
17:Q1:331:LEU:HD12	17:Q1:351:ILE:CG2	2.50	0.42
17:Q1:417:LEU:HD22	17:Q1:426:ILE:CG2	2.27	0.42
17:Q1:517:PRO:HA	17:Q1:520:ILE:CG2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:670:THR:CB	17:Q1:743:LEU:HD13	2.49	0.42
17:Q1:828:THR:OG1	17:Q1:868:HIS:HB2	2.19	0.42
17:Q1:852:ILE:CG2	17:Q1:853:LYS:N	2.82	0.42
17:Q1:929:LEU:CD2	18:R1:691:THR:CB	2.88	0.42
17:Q1:973:LYS:HD3	17:Q1:976:LYS:HZ2	1.83	0.42
17:Q1:973:LYS:CD	17:Q1:976:LYS:HZ2	2.32	0.42
17:Q1:1149:ASN:CG	17:Q1:1152:THR:HG23	2.45	0.42
17:Q2:331:LEU:CD1	17:Q2:351:ILE:CG2	2.94	0.42
17:Q2:615:GLU:HA	17:Q2:645:ILE:HG12	1.98	0.42
17:Q2:646:PHE:CE2	17:Q2:669:VAL:CG1	3.03	0.42
17:Q2:704:SER:O	17:Q2:710:ILE:HD12	2.19	0.42
17:Q2:843:PHE:CD2	17:Q2:843:PHE:C	2.97	0.42
17:Q2:999:LEU:CD1	17:Q2:1003:VAL:HG13	2.46	0.42
17:Q2:1065:VAL:O	17:Q2:1070:LEU:HD22	2.20	0.42
18:R1:359:ILE:HD13	18:R1:389:VAL:HG13	2.01	0.42
18:R1:452:LEU:CD2	18:R1:452:LEU:N	2.82	0.42
18:R1:514:VAL:CG1	18:R1:515:GLU:N	2.82	0.42
19:R2:77:LEU:HG	19:R2:125:TRP:CD2	2.54	0.42
19:R2:508:MET:HE2	19:R2:512:TYR:CE2	2.55	0.42
19:R2:535:ARG:HD3	19:R2:583:GLU:OE1	2.19	0.42
19:R2:555:ILE:CG2	19:R2:556:GLY:N	2.82	0.42
20:S1:247:TYR:CE2	20:S1:260:LEU:HD13	2.54	0.42
20:S1:440:ARG:HB3	21:T1:285:LEU:HD22	2.02	0.42
21:T2:18:ASP:OD1	21:T2:18:ASP:N	2.46	0.42
23:V1:396:ASP:OD1	23:V1:401:LYS:HE3	2.20	0.42
23:V1:454:LEU:HD21	23:V1:503:VAL:HG21	2.01	0.42
24:W1:601:PHE:O	24:W1:602:ILE:C	2.61	0.42
25:X1:714:PHE:CE2	26:Y1:1316:GLU:CG	2.99	0.42
25:X2:681:SER:HA	27:Z2:444:THR:HB	1.40	0.42
26:Y1:1284:THR:O	26:Y1:1288:ILE:HG12	2.20	0.42
26:Y2:1332:LYS:HZ1	27:Z1:55:HIS:CD2	2.38	0.42
27:Z1:55:HIS:HE1	27:Z1:98:SER:CB	2.13	0.42
27:Z1:284:PRO:CD	27:Z1:284:PRO:O	2.67	0.42
27:Z1:386:PHE:HB2	27:Z1:389:TRP:NE1	2.35	0.42
27:Z2:102:ASP:HB3	27:Z2:105:ILE:HD12	2.00	0.42
27:Z2:381:ILE:CD1	27:Z2:420:ILE:HD13	2.50	0.42
27:Z2:420:ILE:CD1	27:Z2:424:PRO:CD	2.95	0.42
27:Z2:437:LEU:HB2	27:Z2:448:GLN:NE2	2.35	0.42
29:b1:15:ASP:OD1	29:b1:15:ASP:C	2.62	0.42
1:A2:1228:TYR:HE1	1:A1:643:ALA:CA	2.33	0.42
1:A3:1084:ARG:CA	4:D3:1095:ARG:HD2	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A4:623:SER:HA	4:D3:977:GLU:HB2	1.16	0.42
4:D2:1047:LEU:CD1	4:D2:1091:THR:HG22	2.49	0.42
4:D3:836:LEU:HA	4:D3:850:VAL:HG12	2.01	0.42
6:F1:153:LEU:HG	9:I1:1395:LEU:CD1	2.43	0.42
9:I1:1051:LYS:CA	14:N1:293:LYS:NZ	2.83	0.42
9:I1:1302:ARG:O	9:I1:1306:LEU:HD13	2.19	0.42
9:I2:887:GLN:O	13:M3:590:LYS:C	2.62	0.42
9:I2:1104:LEU:HG	13:M3:611:LYS:HZ3	1.84	0.42
9:I2:1218:ASP:O	9:I2:1221:ASN:ND2	2.49	0.42
14:N2:429:GLU:OE2	14:N2:429:GLU:N	2.52	0.42
15:O3:156:ILE:HG22	15:O3:157:THR:N	2.34	0.42
17:Q1:178:ILE:CG2	17:Q1:179:ASN:N	2.83	0.42
17:Q1:316:ILE:HG13	17:Q1:331:LEU:CD2	2.50	0.42
17:Q1:557:LEU:HD23	17:Q1:557:LEU:C	2.44	0.42
17:Q1:567:PHE:CE2	17:Q1:571:VAL:HG13	2.54	0.42
17:Q1:790:HIS:O	17:Q1:793:CYS:HB2	2.19	0.42
17:Q1:815:VAL:HG23	17:Q1:816:GLN:N	2.33	0.42
17:Q1:823:GLN:O	17:Q1:824:ASN:HB3	2.19	0.42
17:Q1:1009:LEU:HB2	17:Q1:1014:SER:OG	2.18	0.42
17:Q1:1040:LEU:O	17:Q1:1044:ARG:HG3	2.19	0.42
17:Q2:139:ILE:CG2	17:Q2:211:MET:HE1	2.49	0.42
17:Q2:567:PHE:CE2	17:Q2:571:VAL:HG13	2.54	0.42
17:Q2:991:LEU:HD23	17:Q2:991:LEU:C	2.44	0.42
17:Q2:1144:LYS:HD2	17:Q2:1146:TYR:CE1	2.54	0.42
18:R1:508:MET:HE2	18:R1:512:TYR:CE2	2.55	0.42
18:R1:615:THR:CG2	18:R1:616:LEU:N	2.82	0.42
18:R1:688:LEU:HD12	18:R1:721:THR:HG21	2.02	0.42
19:R2:575:GLU:HG3	19:R2:641:SER:OG	2.17	0.42
19:R2:620:LEU:HD12	19:R2:670:LYS:CE	2.49	0.42
20:S2:247:TYR:CE2	20:S2:260:LEU:HD13	2.54	0.42
20:S2:452:TRP:CD1	20:S2:475:THR:HA	2.54	0.42
21:T1:35:ILE:HB	21:T1:47:ASP:HB2	2.00	0.42
21:T2:60:ASP:H	21:T2:70:LEU:CD1	2.33	0.42
23:V1:149:GLU:HG3	23:V1:186:ARG:NE	2.34	0.42
24:W1:111:GLN:HG3	24:W1:168:TYR:CG	2.55	0.42
25:X1:645:THR:HG23	27:Z1:535:PHE:CE2	2.55	0.42
25:X1:687:GLU:OE2	27:Z1:573:LYS:CD	2.55	0.42
25:X2:645:THR:HG23	27:Z2:535:PHE:CE2	2.55	0.42
26:Y1:1223:ALA:O	26:Y1:1227:VAL:HG23	2.19	0.42
26:Y1:1229:MET:HB3	26:Y1:1233:ARG:NH1	2.34	0.42
26:Y2:1345:LEU:CG	26:Y2:1348:LYS:HE2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1399:ILE:HG23	27:Z2:701:LEU:HD21	1.96	0.42
27:Z1:148:ASP:C	27:Z1:150:THR:N	2.75	0.42
27:Z1:280:LYS:CD	27:Z1:340:ASP:OD1	2.68	0.42
27:Z1:294:LEU:HD11	27:Z1:325:ILE:CD1	2.43	0.42
27:Z1:329:LYS:CE	27:Z1:333:MET:SD	3.00	0.42
27:Z2:10:LEU:HA	27:Z2:11:PRO:HD3	1.93	0.42
27:Z2:78:ASP:OD1	27:Z2:78:ASP:C	2.62	0.42
27:Z2:137:TYR:HB3	27:Z2:269:LYS:CG	2.45	0.42
27:Z2:194:LEU:O	27:Z2:207:ALA:HA	2.20	0.42
27:Z2:280:LYS:CD	27:Z2:340:ASP:OD1	2.67	0.42
27:Z2:393:LEU:O	27:Z2:397:ILE:HG13	2.19	0.42
27:Z2:420:ILE:HD13	27:Z2:424:PRO:HD3	2.01	0.42
1:A3:1223:GLU:HG3	1:A4:647:GLU:C	2.45	0.42
2:B2:354:LEU:HD12	2:B2:354:LEU:C	2.45	0.42
2:B3:354:LEU:C	2:B3:354:LEU:HD12	2.45	0.42
6:F1:135:VAL:HB	9:I1:1336:MET:HB3	2.00	0.42
6:F1:138:ILE:CD1	9:I1:1388:GLU:C	2.93	0.42
6:F2:1267:ARG:HH12	15:O4:263:GLN:N	2.18	0.42
9:I1:899:LEU:HD23	15:O1:201:HIS:ND1	2.34	0.42
9:I2:885:GLU:O	13:M3:594:LYS:CE	2.67	0.42
9:I2:916:ALA:HB3	15:O3:190:ARG:C	2.45	0.42
9:I2:1119:ARG:HH12	10:J2:240:GLY:HA3	1.84	0.42
14:N3:368:ASN:OD1	15:O3:210:ARG:NH2	2.52	0.42
15:O1:156:ILE:HG22	15:O1:157:THR:N	2.34	0.42
15:O3:75:ILE:N	15:O3:76:PRO:CD	2.83	0.42
17:Q1:76:TYR:CG	17:Q1:470:LYS:O	2.73	0.42
17:Q1:416:ILE:HG12	17:Q1:427:THR:C	2.44	0.42
17:Q1:506:LYS:O	17:Q1:509:ALA:HB3	2.20	0.42
17:Q1:528:GLU:CB	17:Q1:579:ILE:CD1	2.94	0.42
17:Q1:633:THR:CG2	17:Q1:634:VAL:N	2.82	0.42
17:Q1:749:LEU:C	17:Q1:749:LEU:CD2	2.93	0.42
17:Q1:803:GLN:O	17:Q1:807:PHE:CD2	2.73	0.42
17:Q1:1140:VAL:CG2	17:Q1:1141:ALA:N	2.83	0.42
17:Q1:1144:LYS:HD2	17:Q1:1146:TYR:CE1	2.54	0.42
17:Q2:228:ILE:HG13	17:Q2:249:ASN:H	1.84	0.42
17:Q2:331:LEU:HD12	17:Q2:351:ILE:CG2	2.50	0.42
17:Q2:394:LYS:CG	17:Q2:395:PHE:N	2.82	0.42
17:Q2:417:LEU:HD22	17:Q2:426:ILE:CG2	2.27	0.42
17:Q2:526:SER:CB	17:Q2:531:LEU:CD1	2.95	0.42
17:Q2:545:TYR:CD1	17:Q2:546:ILE:HG23	2.54	0.42
17:Q2:823:GLN:O	17:Q2:824:ASN:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:969:VAL:CG1	17:Q2:970:GLN:N	2.82	0.42
17:Q2:1029:LEU:HD23	17:Q2:1033:VAL:CG1	2.49	0.42
18:R1:353:ASP:O	18:R1:355:LEU:N	2.51	0.42
18:R1:452:LEU:HB2	18:R1:461:GLN:HE22	1.84	0.42
18:R1:684:ILE:CD1	18:R1:688:LEU:CD2	2.94	0.42
19:R2:433:ALA:O	19:R2:435:PHE:N	2.44	0.42
19:R2:530:ILE:HG13	19:R2:549:PHE:HD2	1.72	0.42
19:R2:538:LEU:HG	19:R2:659:TYR:HE1	1.77	0.42
19:R2:715:LEU:CD2	19:R2:715:LEU:C	2.93	0.42
21:T1:63:HIS:HD2	21:T1:65:LYS:H	1.68	0.42
22:U1:131:ASP:O	22:U1:133:ILE:HG13	2.20	0.42
23:V1:168:ARG:HD3	23:V1:170:ASN:HB3	2.02	0.42
24:W1:508:LYS:O	24:W1:512:THR:HG23	2.19	0.42
25:X1:815:GLU:CD	26:Y1:1402:LEU:HG	2.45	0.42
25:X2:778:LYS:CG	25:X2:794:ILE:C	2.65	0.42
25:X2:823:LYS:O	27:Z1:259:LEU:N	2.46	0.42
26:Y1:1298:TYR:HE2	27:Z1:591:GLN:HB2	1.85	0.42
26:Y1:1341:MET:CA	26:Y1:1341:MET:HE3	2.50	0.42
27:Z1:55:HIS:CE1	27:Z1:98:SER:HG	2.22	0.42
27:Z1:129:LYS:HZ1	27:Z1:185:LEU:HB2	0.55	0.42
27:Z1:155:ASP:HB2	27:Z1:161:GLU:HG3	2.02	0.42
27:Z1:331:LEU:CD1	27:Z1:347:SER:HB2	2.39	0.42
27:Z2:252:GLN:CB	27:Z2:335:MET:CG	2.54	0.42
27:Z2:386:PHE:HB2	27:Z2:389:TRP:NE1	2.35	0.42
29:b1:69:VAL:CG2	29:b1:76:PHE:HZ	2.32	0.42
1:A2:1226:LEU:HD21	1:A1:646:ILE:CA	2.49	0.42
4:D4:664:ASN:O	4:D4:667:ARG:NH2	2.50	0.42
9:I1:615:ILE:HD12	9:I1:615:ILE:N	2.35	0.42
9:I1:892:HIS:C	9:I1:893:LEU:HD12	2.45	0.42
16:P3:147:LEU:O	16:P3:151:LYS:N	2.52	0.42
17:Q1:133:ALA:HB1	17:Q1:168:LYS:NZ	2.35	0.42
17:Q1:181:ILE:HG21	17:Q1:183:ASN:ND2	2.34	0.42
17:Q1:268:VAL:CG1	17:Q1:334:TRP:C	2.92	0.42
17:Q1:274:PRO:HG3	17:Q1:342:GLU:O	2.20	0.42
17:Q1:382:ARG:O	17:Q1:508:ASN:O	2.38	0.42
17:Q1:570:PHE:CE1	17:Q1:574:ASN:ND2	2.88	0.42
17:Q1:695:GLU:HA	17:Q1:695:GLU:OE1	2.20	0.42
17:Q1:811:LEU:CD2	17:Q1:814:LEU:CD2	2.97	0.42
17:Q1:1065:VAL:O	17:Q1:1070:LEU:HD22	2.20	0.42
17:Q1:1071:PRO:HB3	17:Q1:1155:VAL:CG2	2.44	0.42
17:Q1:1150:TYR:CD2	17:Q1:1150:TYR:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:133:ALA:HB1	17:Q2:168:LYS:NZ	2.35	0.42
17:Q2:228:ILE:CG1	17:Q2:249:ASN:N	2.82	0.42
17:Q2:380:THR:O	17:Q2:380:THR:HG23	2.20	0.42
17:Q2:527:ILE:HG12	17:Q2:530:ASP:CB	2.50	0.42
17:Q2:648:GLN:HA	17:Q2:651:ASN:HD22	1.85	0.42
17:Q2:801:CYS:SG	17:Q2:814:LEU:CD1	3.07	0.42
17:Q2:856:LYS:CB	17:Q2:859:ASP:CA	2.97	0.42
17:Q2:988:VAL:CG1	17:Q2:989:GLU:N	2.83	0.42
18:R1:453:GLU:CG	18:R1:454:ASP:N	2.81	0.42
18:R1:527:VAL:HG12	18:R1:557:GLU:HG3	2.01	0.42
19:R2:634:PHE:CZ	19:R2:635:LEU:CG	2.95	0.42
20:S1:155:SER:HB3	20:S1:159:MET:H	1.85	0.42
20:S1:373:LEU:HB3	20:S1:376:LEU:HD12	2.02	0.42
20:S1:392:TYR:O	20:S1:394:GLN:N	2.44	0.42
20:S2:153:LYS:HA	21:T2:261:SER:HB2	2.01	0.42
20:S2:531:LEU:O	20:S2:532:LYS:HG2	2.19	0.42
22:U2:29:SER:C	22:U2:31:GLN:N	2.78	0.42
23:V1:243:GLN:O	23:V1:247:LYS:HG3	2.19	0.42
23:V1:269:ASP:OD1	23:V1:269:ASP:N	2.53	0.42
23:V2:243:GLN:O	23:V2:247:LYS:HG3	2.19	0.42
23:V2:396:ASP:OD1	23:V2:401:LYS:HE3	2.20	0.42
24:W2:295:ASN:ND2	24:W2:329:TRP:O	2.52	0.42
25:X2:695:GLN:CD	27:Z2:431:TRP:CE3	2.96	0.42
26:Y1:1118:ALA:HB1	29:b1:71:HIS:ND1	2.31	0.42
26:Y1:1383:ALA:CA	26:Y2:1364:ASN:H	2.29	0.42
27:Z1:13:PHE:C	27:Z1:14:GLN:O	2.61	0.42
27:Z1:194:LEU:O	27:Z1:207:ALA:HA	2.20	0.42
27:Z1:208:PHE:CE2	27:Z1:279:ALA:HB3	2.44	0.42
27:Z1:218:LEU:O	27:Z1:263:TRP:HZ2	2.03	0.42
27:Z2:25:TYR:OH	27:Z2:69:PHE:O	2.37	0.42
27:Z2:131:LEU:HB3	27:Z2:187:PHE:CE2	2.55	0.42
27:Z2:223:LEU:HD12	27:Z2:263:TRP:CZ2	2.54	0.42
27:Z2:284:PRO:CD	27:Z2:284:PRO:O	2.67	0.42
27:Z2:703:GLN:O	27:Z2:707:GLU:CG	2.60	0.42
28:a1:1065:THR:HG22	28:a1:1067:LYS:CG	2.49	0.42
1:A2:1204:TRP:CE3	1:A1:607:ARG:NH2	2.88	0.42
1:A3:879:LEU:HD21	1:A3:908:LEU:HD12	2.01	0.42
4:D3:1098:LEU:HB3	4:D3:1099:PRO:CD	2.50	0.42
6:F2:132:THR:CG2	9:I2:1334:PRO:CA	2.45	0.42
6:F2:159:ALA:C	9:I2:1197:ASN:O	2.63	0.42
6:F2:689:ARG:O	6:F2:699:ARG:N	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G2:253:SER:CB	15:O4:253:LEU:N	2.82	0.42
9:I1:899:LEU:C	13:M1:580:LYS:CD	2.81	0.42
9:I2:535:ASP:OD1	9:I2:536:GLU:N	2.53	0.42
9:I2:922:ASP:HB2	16:P3:157:GLU:HB2	2.02	0.42
14:N1:429:GLU:OE2	14:N1:429:GLU:N	2.52	0.42
15:O1:75:ILE:N	15:O1:76:PRO:CD	2.83	0.42
17:Q1:426:ILE:HG12	17:Q1:445:ASP:O	2.19	0.42
17:Q1:479:VAL:HG12	17:Q1:480:LYS:N	2.35	0.42
17:Q1:499:ASP:O	17:Q1:503:TYR:CD2	2.73	0.42
17:Q1:824:ASN:OD1	17:Q1:832:TYR:HB2	2.19	0.42
17:Q1:892:LEU:C	17:Q1:892:LEU:CD2	2.93	0.42
17:Q1:980:ILE:HG23	17:Q1:981:ARG:N	2.34	0.42
17:Q1:1016:PHE:CE1	17:Q1:1065:VAL:HG13	2.53	0.42
17:Q1:1065:VAL:CA	17:Q1:1070:LEU:CD2	2.95	0.42
17:Q2:64:ASN:ND2	17:Q2:67:TYR:CE2	2.88	0.42
17:Q2:134:VAL:CG1	17:Q2:135:ALA:N	2.82	0.42
17:Q2:298:SER:O	17:Q2:300:THR:HA	2.20	0.42
17:Q2:337:HIS:ND1	17:Q2:401:ILE:HB	2.35	0.42
17:Q2:479:VAL:HG12	17:Q2:480:LYS:N	2.34	0.42
17:Q2:499:ASP:O	17:Q2:503:TYR:CD2	2.73	0.42
17:Q2:557:LEU:HD23	17:Q2:557:LEU:C	2.44	0.42
17:Q2:611:ASN:ND2	17:Q2:649:PHE:CG	2.88	0.42
17:Q2:644:VAL:CG1	17:Q2:645:ILE:N	2.82	0.42
17:Q2:669:VAL:CG2	17:Q2:670:THR:N	2.83	0.42
17:Q2:700:GLU:CB	17:Q2:758:ILE:HG23	2.50	0.42
17:Q2:803:GLN:O	17:Q2:807:PHE:CD2	2.73	0.42
17:Q2:852:ILE:CD1	17:Q2:913:LYS:HD3	2.49	0.42
18:R1:533:LEU:HD21	18:R1:537:PHE:CE2	2.54	0.42
18:R1:628:PHE:CZ	18:R1:693:LEU:HD13	2.55	0.42
19:R2:104:LEU:HG	19:R2:224:ASP:HB3	2.02	0.42
19:R2:538:LEU:CD1	19:R2:546:LEU:CD1	2.97	0.42
19:R2:617:ILE:CG2	19:R2:618:GLU:N	2.83	0.42
19:R2:647:ALA:O	19:R2:651:ILE:HG23	2.20	0.42
19:R2:677:LEU:CD2	19:R2:677:LEU:H	2.32	0.42
22:U1:76:SER:HB3	22:U1:78:ASP:OD1	2.19	0.42
22:U1:340:LYS:CE	27:Z1:642:ASN:HD21	2.26	0.42
23:V2:403:HIS:O	23:V2:405:ILE:HG23	2.20	0.42
24:W1:59:CYS:HB2	24:W1:464:THR:OG1	2.19	0.42
25:X1:665:TRP:CH2	27:Z1:560:LEU:HD11	2.41	0.42
25:X1:744:ALA:O	25:X1:747:THR:HB	2.20	0.42
26:Y2:1272:ILE:O	26:Y2:1276:ILE:CG1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1341:MET:CA	26:Y2:1341:MET:HE3	2.50	0.42
27:Z1:10:LEU:HA	27:Z1:11:PRO:HD3	1.93	0.42
27:Z1:212:LEU:HA	27:Z1:213:PRO:CD	2.49	0.42
27:Z1:288:ASN:HB3	27:Z1:349:VAL:HA	2.02	0.42
27:Z1:376:ILE:HG12	27:Z1:381:ILE:HG12	2.02	0.42
27:Z1:403:ASN:N	27:Z2:262:ASN:CB	2.78	0.42
27:Z1:523:ASN:CA	27:Z1:523:ASN:N	2.52	0.42
27:Z2:119:GLU:CB	27:Z2:120:GLU:N	2.82	0.42
27:Z2:208:PHE:HD1	27:Z2:211:PHE:N	2.17	0.42
28:a2:966:MSE:HE2	28:a2:1020:GLY:CA	2.50	0.42
29:b1:15:ASP:OD1	29:b1:76:PHE:N	2.49	0.42
29:b2:55:ASN:CB	29:b2:56:THR:CG2	2.59	0.42
1:A1:1242:THR:HG22	1:A1:1245:ASP:H	1.85	0.42
1:A3:1400:SER:HB3	4:D3:869:THR:O	2.18	0.42
1:A4:879:LEU:HD21	1:A4:908:LEU:HD12	2.01	0.42
4:D2:522:VAL:HG21	4:D2:569:GLU:HG2	2.01	0.42
4:D4:836:LEU:HA	4:D4:850:VAL:HG12	2.01	0.42
6:F1:138:ILE:HA	9:I1:1391:THR:H	1.81	0.42
6:F1:215:ASP:OD1	6:F1:218:ARG:NH2	2.52	0.42
6:F2:1776:THR:HG23	6:F2:1776:THR:O	2.20	0.42
9:I1:909:ARG:N	15:O1:205:ARG:HD3	2.05	0.42
9:I1:911:PRO:O	13:M1:541:LEU:C	2.53	0.42
9:I1:912:VAL:HA	13:M1:542:ASP:HA	2.01	0.42
9:I2:892:HIS:C	9:I2:893:LEU:HD12	2.45	0.42
9:I2:977:ASN:CB	15:O3:174:LEU:HD22	2.49	0.42
17:Q1:264:ASN:HB3	17:Q1:289:LYS:CD	2.44	0.42
17:Q1:276:LEU:CB	17:Q1:280:THR:CG2	2.95	0.42
17:Q1:298:SER:O	17:Q1:300:THR:HA	2.20	0.42
17:Q1:443:TRP:CD1	17:Q1:504:PHE:HB2	2.55	0.42
17:Q1:527:ILE:HG12	17:Q1:530:ASP:CB	2.49	0.42
17:Q1:795:VAL:CG1	17:Q1:796:ASN:N	2.82	0.42
17:Q1:871:LEU:C	17:Q1:871:LEU:CD2	2.93	0.42
17:Q1:969:VAL:CG1	17:Q1:970:GLN:N	2.83	0.42
17:Q2:178:ILE:CG2	17:Q2:179:ASN:N	2.83	0.42
17:Q2:426:ILE:HG12	17:Q2:445:ASP:O	2.19	0.42
17:Q2:467:VAL:HG13	17:Q2:467:VAL:O	2.19	0.42
17:Q2:490:GLU:HB2	17:Q2:493:PHE:HD1	1.84	0.42
17:Q2:575:PHE:O	17:Q2:575:PHE:CD2	2.73	0.42
17:Q2:695:GLU:HA	17:Q2:695:GLU:OE1	2.20	0.42
17:Q2:791:VAL:CG1	17:Q2:792:LEU:N	2.82	0.42
17:Q2:857:LEU:HD12	17:Q2:916:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:1029:LEU:N	17:Q2:1029:LEU:CD1	2.82	0.42
18:R1:104:LEU:HG	18:R1:224:ASP:HB3	2.02	0.42
18:R1:293:ILE:HD11	18:R1:327:VAL:CG2	2.49	0.42
18:R1:527:VAL:HB	18:R1:580:PHE:CG	2.55	0.42
18:R1:664:LEU:CD1	18:R1:690:PHE:CE1	2.98	0.42
18:R1:715:LEU:CD2	18:R1:715:LEU:C	2.93	0.42
19:R2:343:ILE:HD13	19:R2:344:ARG:H	1.85	0.42
19:R2:628:PHE:CZ	19:R2:693:LEU:HD13	2.55	0.42
20:S1:208:TYR:CE2	20:S1:505:GLU:HG3	2.55	0.42
22:U1:245:ILE:HG12	27:Z1:661:GLU:CD	2.45	0.42
23:V2:265:ILE:C	23:V2:267:ARG:N	2.77	0.42
24:W2:287:LEU:O	24:W2:300:MET:HA	2.20	0.42
26:Y1:1269:LEU:O	26:Y1:1273:GLN:HG3	2.20	0.42
26:Y1:1345:LEU:CG	26:Y1:1348:LYS:HE2	2.48	0.42
26:Y1:1402:LEU:O	26:Y1:1406:VAL:HG23	2.20	0.42
27:Z1:7:LEU:HD13	27:Z1:447:PHE:CD2	2.55	0.42
27:Z1:125:SER:CB	27:Z1:148:ASP:CG	2.78	0.42
27:Z1:287:ILE:CD1	27:Z1:327:LEU:HD13	2.50	0.42
27:Z1:429:ILE:CG2	27:Z1:431:TRP:CE2	2.99	0.42
27:Z1:539:ILE:O	27:Z1:543:GLN:HG2	2.20	0.42
27:Z2:13:PHE:C	27:Z2:14:GLN:O	2.61	0.42
27:Z2:128:LYS:CE	27:Z2:147:GLU:HB3	2.47	0.42
27:Z2:148:ASP:C	27:Z2:150:THR:N	2.75	0.42
27:Z2:305:ILE:CG2	27:Z2:386:PHE:CZ	2.89	0.42
27:Z2:319:PHE:CE2	27:Z2:325:ILE:HG13	2.55	0.42
27:Z2:380:ILE:CG2	27:Z2:382:GLN:CG	2.98	0.42
27:Z2:422:ARG:HH21	27:Z2:442:ASN:ND2	2.13	0.42
1:A2:1203:TYR:CB	1:A1:599:ARG:NH2	2.81	0.41
1:A4:780:GLU:HG3	1:A4:822:ILE:HG23	2.02	0.41
6:F1:1264:ARG:O	15:O2:251:ILE:HG22	2.19	0.41
6:F2:924:GLU:OE2	6:F2:988:ARG:NE	2.53	0.41
9:I1:966:TRP:CA	15:O1:176:ARG:O	2.68	0.41
9:I2:271:ASP:OD1	9:I2:272:LYS:N	2.49	0.41
9:I2:891:LEU:CD2	13:M3:586:ASP:O	2.62	0.41
9:I2:963:LEU:HD12	16:P3:152:LYS:H	1.58	0.41
9:I2:965:ALA:O	15:O3:177:HIS:NE2	2.53	0.41
9:I2:1182:GLN:NE2	10:J2:245:GLU:CB	2.80	0.41
17:Q1:103:LYS:C	17:Q1:104:LYS:HG3	2.45	0.41
17:Q1:110:ILE:HG22	17:Q1:110:ILE:O	2.19	0.41
17:Q1:351:ILE:CG2	17:Q1:352:TYR:N	2.82	0.41
17:Q1:498:VAL:CG1	17:Q1:499:ASP:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:648:GLN:HA	17:Q1:651:ASN:HD22	1.85	0.41
17:Q1:705:LYS:CA	17:Q1:710:ILE:HD12	2.40	0.41
17:Q1:874:PHE:CE1	17:Q1:889:GLN:CG	2.96	0.41
17:Q2:164:LEU:HD21	17:Q2:178:ILE:HD13	2.02	0.41
17:Q2:332:LYS:C	17:Q2:351:ILE:HG23	2.45	0.41
17:Q2:678:TYR:CE2	17:Q2:682:LEU:HD12	2.55	0.41
17:Q2:742:LEU:C	17:Q2:742:LEU:CD2	2.93	0.41
17:Q2:892:LEU:C	17:Q2:892:LEU:CD2	2.93	0.41
18:R1:23:LYS:HD2	18:R1:434:THR:HG21	2.01	0.41
18:R1:621:GLN:CB	18:R1:670:LYS:HZ1	2.27	0.41
19:R2:206:ILE:HG22	19:R2:210:MET:HE2	2.02	0.41
19:R2:538:LEU:HA	19:R2:546:LEU:HD11	2.02	0.41
19:R2:543:VAL:CG2	19:R2:544:LYS:N	2.83	0.41
19:R2:666:GLU:O	19:R2:669:LYS:HB3	2.20	0.41
19:R2:688:LEU:HD12	19:R2:721:THR:HG21	2.02	0.41
20:S1:539:PHE:CD1	20:S1:539:PHE:C	2.98	0.41
21:T1:222:LEU:O	21:T1:233:ILE:HA	2.20	0.41
21:T1:223:ALA:HB2	21:T1:262:TRP:CZ2	2.55	0.41
22:U2:131:ASP:O	22:U2:133:ILE:HG13	2.20	0.41
23:V2:159:ILE:HD13	23:V2:176:GLU:HA	2.01	0.41
24:W1:446:LEU:HD23	24:W1:446:LEU:HA	1.88	0.41
24:W2:446:LEU:HD23	24:W2:446:LEU:HA	1.87	0.41
25:X2:817:GLN:HB3	27:Z2:708:PHE:CE2	2.55	0.41
26:Y2:1362:LEU:C	26:Y2:1387:LYS:HD2	2.45	0.41
27:Z1:78:ASP:OD1	27:Z1:78:ASP:O	2.37	0.41
27:Z1:205:ILE:O	27:Z1:206:PHE:CD1	2.62	0.41
27:Z1:363:LEU:HG	27:Z1:373:LEU:CD1	2.40	0.41
27:Z1:366:LEU:CD2	27:Z1:374:TYR:CE2	2.86	0.41
27:Z1:381:ILE:CD1	27:Z1:420:ILE:HD13	2.50	0.41
27:Z1:544:THR:HG1	27:Z2:555:GLU:CA	2.12	0.41
27:Z2:32:GLY:N	27:Z2:368:GLU:OE2	2.53	0.41
27:Z2:138:ARG:HG3	27:Z2:138:ARG:NH1	2.34	0.41
27:Z2:539:ILE:O	27:Z2:543:GLN:HG2	2.19	0.41
28:a2:1047:ILE:O	28:a2:1047:ILE:HG22	2.20	0.41
29:b2:24:ILE:HG22	29:b2:79:PHE:CZ	2.47	0.41
1:A3:780:GLU:HG3	1:A3:822:ILE:HG23	2.01	0.41
1:A3:1083:SER:OG	4:D3:1096:TYR:HD2	1.98	0.41
2:B1:354:LEU:HD12	2:B1:354:LEU:C	2.45	0.41
4:D1:673:LEU:CG	1:A1:1094:ILE:CG2	2.98	0.41
4:D4:1098:LEU:HB3	4:D4:1099:PRO:CD	2.50	0.41
7:G2:253:SER:N	15:O4:251:ILE:CB	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:659:LYS:HE2	9:I1:664:LEU:HD21	2.02	0.41
9:I1:1049:LEU:HB2	15:O1:174:LEU:HG	1.86	0.41
9:I2:890:TYR:O	13:M3:587:GLU:O	2.35	0.41
17:Q1:362:ILE:C	17:Q1:362:ILE:CD1	2.94	0.41
17:Q1:497:HIS:CD2	17:Q1:497:HIS:C	2.99	0.41
17:Q1:678:TYR:CE2	17:Q1:682:LEU:HD12	2.55	0.41
17:Q1:719:ASN:OD1	17:Q1:723:PHE:CE1	2.73	0.41
17:Q1:726:THR:OG1	17:Q1:792:LEU:HD23	2.19	0.41
17:Q1:820:THR:CG2	17:Q1:821:LEU:N	2.83	0.41
17:Q1:917:LEU:C	17:Q1:917:LEU:CD2	2.93	0.41
17:Q1:958:LYS:C	17:Q1:958:LYS:HE2	2.44	0.41
17:Q1:1097:GLU:CG	17:Q1:1098:THR:N	2.83	0.41
17:Q1:1122:THR:CG2	17:Q1:1123:LEU:N	2.82	0.41
17:Q2:76:TYR:CD2	17:Q2:76:TYR:C	2.97	0.41
17:Q2:871:LEU:C	17:Q2:871:LEU:CD2	2.93	0.41
18:R1:508:MET:O	18:R1:512:TYR:CD2	2.73	0.41
18:R1:596:GLU:HG2	18:R1:620:LEU:CA	2.51	0.41
18:R1:678:LEU:CG	18:R1:679:LYS:H	2.32	0.41
18:R1:706:GLN:H	18:R1:710:LYS:HG3	1.85	0.41
19:R2:359:ILE:HD13	19:R2:389:VAL:HG13	2.01	0.41
19:R2:664:LEU:CB	19:R2:690:PHE:CE1	2.95	0.41
21:T1:227:GLN:C	21:T1:229:ARG:H	2.29	0.41
22:U2:189:GLU:HA	22:U2:213:SER:O	2.20	0.41
22:U2:303:HIS:HA	22:U2:325:ASP:OD2	2.19	0.41
23:V1:57:PRO:HB3	23:V1:91:TYR:OH	2.19	0.41
23:V1:480:GLU:O	23:V1:483:PRO:HD2	2.21	0.41
23:V2:78:ASN:HD21	23:V2:95:ILE:HG13	1.85	0.41
24:W2:53:GLY:HA3	24:W2:71:HIS:HB3	2.01	0.41
25:X1:645:THR:CA	27:Z1:535:PHE:CE2	3.02	0.41
25:X2:695:GLN:CD	27:Z2:48:VAL:CG2	2.63	0.41
25:X2:717:LYS:HB3	26:Y2:1320:LEU:CD1	2.28	0.41
25:X2:744:ALA:O	25:X2:747:THR:HB	2.20	0.41
26:Y2:1368:LEU:CB	26:Y2:1383:ALA:HB2	2.50	0.41
27:Z1:131:LEU:HB3	27:Z1:187:PHE:CE2	2.55	0.41
27:Z1:148:ASP:HB2	27:Z1:150:THR:HG23	1.95	0.41
27:Z1:282:GLN:HG3	27:Z1:342:TYR:HD2	1.84	0.41
27:Z2:282:GLN:HG3	27:Z2:342:TYR:HD2	1.85	0.41
29:b2:42:ALA:C	29:b2:59:VAL:CG2	2.82	0.41
1:A1:879:LEU:HD21	1:A1:908:LEU:HD12	2.01	0.41
1:A2:879:LEU:HD21	1:A2:908:LEU:HD12	2.01	0.41
1:A2:1242:THR:HG22	1:A2:1245:ASP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D2:1056:ARG:HA	4:D2:1056:ARG:HD2	1.87	0.41
4:D2:1098:LEU:HB3	4:D2:1099:PRO:CD	2.50	0.41
4:D4:977:GLU:O	4:D4:981:VAL:HG23	2.21	0.41
4:D4:1091:THR:OG1	4:D4:1092:SER:N	2.54	0.41
6:F1:1544:ALA:N	6:F1:1545:PRO:CD	2.83	0.41
6:F1:1836:GLU:O	6:F1:1839:VAL:HG12	2.20	0.41
6:F2:160:SER:CA	9:I2:1197:ASN:O	2.69	0.41
6:F2:1836:GLU:O	6:F2:1839:VAL:HG12	2.20	0.41
7:G2:253:SER:CB	15:O4:249:ARG:C	2.91	0.41
9:I1:767:ASP:HB2	13:M1:546:ARG:HH12	1.85	0.41
9:I1:913:ALA:H	15:O1:198:ARG:HD3	1.26	0.41
9:I2:615:ILE:HD12	9:I2:615:ILE:N	2.35	0.41
9:I2:963:LEU:HD13	16:P3:148:ALA:C	2.45	0.41
9:I2:1030:ARG:HB2	13:M3:611:LYS:O	2.20	0.41
9:I2:1098:LEU:C	15:O3:269:ILE:HA	2.44	0.41
9:I2:1160:ILE:HD11	15:O3:263:GLN:HG2	2.02	0.41
9:I2:1255:HIS:N	14:N3:408:MET:HA	2.34	0.41
9:I2:1605:LEU:C	9:I2:1605:LEU:HD12	2.46	0.41
16:P4:147:LEU:O	16:P4:151:LYS:N	2.52	0.41
17:Q1:76:TYR:CD2	17:Q1:76:TYR:C	2.98	0.41
17:Q1:200:ILE:CD1	17:Q1:200:ILE:N	2.83	0.41
17:Q1:228:ILE:CG1	17:Q1:249:ASN:N	2.83	0.41
17:Q1:246:LYS:HD3	17:Q1:247:LEU:O	2.21	0.41
17:Q1:611:ASN:ND2	17:Q1:649:PHE:CG	2.88	0.41
17:Q1:669:VAL:CG2	17:Q1:670:THR:N	2.83	0.41
17:Q1:743:LEU:CD2	17:Q1:747:LYS:HG3	2.51	0.41
17:Q1:1090:LEU:HD13	17:Q1:1110:ARG:CG	2.50	0.41
17:Q2:200:ILE:CD1	17:Q2:200:ILE:N	2.83	0.41
17:Q2:246:LYS:HD3	17:Q2:247:LEU:O	2.21	0.41
17:Q2:362:ILE:C	17:Q2:362:ILE:CD1	2.94	0.41
17:Q2:441:ARG:HH21	17:Q2:444:GLU:HB2	1.84	0.41
18:R1:533:LEU:HD23	18:R1:549:PHE:CD2	2.56	0.41
18:R1:579:GLN:HE22	18:R1:637:ASP:HB3	1.86	0.41
18:R1:668:HIS:NE2	18:R1:717:LEU:HB3	2.35	0.41
20:S2:345:SER:HB3	20:S2:371:PHE:HE2	1.84	0.41
20:S2:440:ARG:HB3	21:T2:285:LEU:HD22	2.02	0.41
22:U1:192:ILE:HG22	22:U1:207:LYS:HG2	2.02	0.41
22:U1:244:LYS:HB3	27:Z1:657:TYR:CD2	2.54	0.41
23:V1:78:ASN:HD21	23:V1:95:ILE:HG13	1.85	0.41
23:V1:95:ILE:HA	23:V1:96:PRO:HD3	1.90	0.41
23:V1:403:HIS:O	23:V1:405:ILE:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:W1:167:PHE:O	24:W1:174:SER:HB2	2.20	0.41
24:W1:287:LEU:O	24:W1:300:MET:HA	2.20	0.41
24:W2:180:ASP:HA	24:W2:220:TYR:CD1	2.55	0.41
25:X1:638:ASP:CG	25:X1:639:ASP:N	2.64	0.41
25:X1:726:VAL:C	25:X1:726:VAL:CB	2.93	0.41
25:X2:700:ILE:CG1	26:Y2:1298:TYR:CD1	2.85	0.41
26:Y1:1270:LEU:HD21	27:Z1:564:LEU:HG	1.97	0.41
26:Y2:1332:LYS:HG3	27:Z1:97:TYR:C	2.43	0.41
26:Y2:1334:LEU:HG	27:Z1:109:PHE:HB2	1.37	0.41
27:Z1:208:PHE:HD1	27:Z1:211:PHE:N	2.17	0.41
27:Z1:294:LEU:HD12	27:Z1:325:ILE:CD1	2.47	0.41
27:Z2:208:PHE:CE2	27:Z2:279:ALA:HB3	2.44	0.41
27:Z2:592:LEU:HD23	27:Z2:595:GLN:OE1	2.21	0.41
28:a1:1061:VAL:CG1	28:a1:1066:ARG:HA	2.51	0.41
28:a2:972:ILE:CG2	28:a2:973:SER:N	2.83	0.41
1:A3:1221:ILE:HD13	1:A4:596:ARG:HG3	1.45	0.41
6:F2:701:GLU:OE2	6:F2:701:GLU:N	2.53	0.41
9:I1:908:ARG:HA	15:O1:209:LEU:HD11	2.03	0.41
9:I1:1371:LEU:O	9:I1:1371:LEU:HD23	2.20	0.41
9:I2:659:LYS:HE2	9:I2:664:LEU:HD21	2.02	0.41
9:I2:813:ILE:HG23	15:O3:237:PRO:C	2.39	0.41
17:Q1:64:ASN:ND2	17:Q1:67:TYR:CE2	2.88	0.41
17:Q1:440:ARG:CD	17:Q1:514:PHE:CE2	2.95	0.41
17:Q1:575:PHE:O	17:Q1:575:PHE:CD2	2.73	0.41
17:Q1:616:LYS:HB2	17:Q1:630:THR:HG21	1.99	0.41
17:Q1:673:ILE:CG2	17:Q1:674:ASN:N	2.83	0.41
17:Q1:863:ARG:HH11	17:Q1:863:ARG:HD2	1.69	0.41
17:Q1:982:GLU:CB	17:Q1:1104:ILE:HD11	2.36	0.41
17:Q2:274:PRO:HG3	17:Q2:342:GLU:O	2.20	0.41
17:Q2:275:ILE:HD11	17:Q2:281:ARG:HH21	1.85	0.41
17:Q2:335:ASP:CG	17:Q2:399:ILE:HG22	2.46	0.41
17:Q2:506:LYS:O	17:Q2:509:ALA:HB3	2.20	0.41
17:Q2:589:GLU:HG2	17:Q2:688:THR:CG2	2.50	0.41
17:Q2:617:THR:CG2	17:Q2:618:LEU:N	2.82	0.41
17:Q2:633:THR:CG2	17:Q2:634:VAL:N	2.82	0.41
17:Q2:743:LEU:CD2	17:Q2:747:LYS:HG3	2.51	0.41
17:Q2:748:ILE:CG2	17:Q2:749:LEU:N	2.83	0.41
17:Q2:749:LEU:CD2	17:Q2:749:LEU:C	2.93	0.41
17:Q2:829:VAL:CG1	17:Q2:830:SER:N	2.82	0.41
18:R1:468:LEU:HB3	18:R1:470:LEU:HG	2.03	0.41
18:R1:520:GLY:O	18:R1:523:TYR:CD2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:531:ILE:HG13	18:R1:532:ALA:N	2.36	0.41
19:R2:146:ASN:HB2	19:R2:173:ASP:CG	2.46	0.41
19:R2:242:LEU:O	19:R2:243:TRP:C	2.63	0.41
19:R2:508:MET:O	19:R2:512:TYR:CD2	2.73	0.41
19:R2:531:ILE:CG2	19:R2:580:PHE:CD1	3.03	0.41
19:R2:591:ILE:CG2	19:R2:592:LYS:N	2.84	0.41
19:R2:668:HIS:NE2	19:R2:717:LEU:HB3	2.35	0.41
20:S2:155:SER:HB3	20:S2:159:MET:H	1.85	0.41
20:S2:208:TYR:CE2	20:S2:505:GLU:HG3	2.54	0.41
22:U2:192:ILE:HG22	22:U2:207:LYS:HG2	2.02	0.41
23:V1:352:THR:OG1	23:V1:355:GLU:HG3	2.21	0.41
25:X1:753:GLU:O	25:X1:756:ASN:CG	2.63	0.41
25:X2:800:HIS:CD2	27:Z2:691:SER:HA	2.56	0.41
26:Y1:1211:LEU:HD21	26:Y1:1214:ILE:CD1	2.33	0.41
26:Y2:1284:THR:O	26:Y2:1288:ILE:HG12	2.20	0.41
27:Z1:41:ASN:CG	27:Z1:59:PHE:CD2	2.98	0.41
27:Z1:205:ILE:C	27:Z1:206:PHE:HD1	2.28	0.41
27:Z1:249:VAL:HA	27:Z1:252:GLN:CG	2.50	0.41
27:Z1:287:ILE:CD1	27:Z1:348:LEU:HD13	2.40	0.41
27:Z2:69:PHE:CE1	27:Z2:84:ASN:HB2	2.55	0.41
27:Z2:288:ASN:HB3	27:Z2:349:VAL:HA	2.02	0.41
27:Z2:709:THR:C	27:Z2:712:THR:OG1	2.63	0.41
28:a2:972:ILE:HD11	28:a2:1019:LEU:CB	2.43	0.41
29:b1:61:VAL:HG22	29:b1:86:PHE:CE2	2.55	0.41
29:b2:16:ILE:HD11	29:b2:77:VAL:HG12	1.95	0.41
1:A2:1224:PRO:CA	1:A1:598:VAL:CG2	2.78	0.41
4:D1:820:HIS:HB3	4:D1:866:PHE:CE1	2.56	0.41
4:D1:1098:LEU:HB3	4:D1:1099:PRO:CD	2.50	0.41
4:D2:1001:TRP:HE1	4:D2:1056:ARG:HG3	1.85	0.41
6:F1:138:ILE:HD13	9:I1:1388:GLU:C	2.46	0.41
7:G2:252:LEU:CA	15:O4:251:ILE:HB	2.50	0.41
9:I1:535:ASP:OD1	9:I1:536:GLU:N	2.53	0.41
9:I1:908:ARG:HD3	13:M1:551:LEU:HB3	2.03	0.41
9:I1:978:LYS:CE	15:O1:181:HIS:CA	2.98	0.41
9:I1:1359:ASP:OD2	15:O1:264:ILE:HD13	2.13	0.41
9:I2:961:ARG:CD	16:P3:156:GLY:N	2.81	0.41
9:I2:1048:GLU:OE2	14:N3:293:LYS:CD	2.67	0.41
9:I2:1049:LEU:HD23	14:N3:293:LYS:C	2.45	0.41
9:I2:1102:GLN:O	15:O3:275:LEU:CB	2.68	0.41
9:I2:1103:LEU:O	13:M3:615:PRO:CG	2.68	0.41
9:I2:1305:LEU:CD2	15:O3:264:ILE:HD11	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:164:LEU:HD21	17:Q1:178:ILE:HD13	2.02	0.41
17:Q1:382:ARG:NH1	17:Q1:513:ASP:HA	2.35	0.41
17:Q1:532:LYS:HB3	17:Q1:579:ILE:HG22	2.03	0.41
17:Q1:538:ILE:CG2	17:Q1:539:PHE:N	2.82	0.41
17:Q1:718:ILE:H	17:Q1:718:ILE:CD1	2.34	0.41
17:Q1:887:TRP:HA	17:Q1:890:GLN:HG2	2.01	0.41
17:Q1:991:LEU:CD2	17:Q1:991:LEU:C	2.93	0.41
17:Q1:1029:LEU:N	17:Q1:1029:LEU:CD1	2.83	0.41
17:Q1:1131:ILE:CG2	17:Q1:1132:LYS:N	2.83	0.41
17:Q2:529:HIS:CA	17:Q2:532:LYS:HE2	2.50	0.41
17:Q2:616:LYS:HB2	17:Q2:630:THR:HG21	1.99	0.41
17:Q2:673:ILE:CG2	17:Q2:674:ASN:N	2.83	0.41
17:Q2:718:ILE:N	17:Q2:718:ILE:CD1	2.83	0.41
17:Q2:805:ALA:CB	17:Q2:815:VAL:CG1	2.93	0.41
17:Q2:991:LEU:CD2	17:Q2:991:LEU:C	2.93	0.41
18:R1:433:ALA:O	18:R1:435:PHE:N	2.44	0.41
19:R2:520:GLY:O	19:R2:523:TYR:CD2	2.73	0.41
19:R2:654:GLU:O	19:R2:658:LEU:HD13	2.20	0.41
20:S1:216:LEU:O	20:S1:217:LEU:HD23	2.19	0.41
20:S2:162:THR:HG22	20:S2:163:LYS:N	2.35	0.41
20:S2:513:MET:HA	20:S2:541:ALA:HB1	2.02	0.41
21:T2:222:LEU:O	21:T2:233:ILE:HA	2.19	0.41
22:U1:16:VAL:HG12	22:U1:63:TRP:CD1	2.55	0.41
22:U1:175:PRO:HD3	22:U1:220:TRP:HB3	2.02	0.41
22:U2:16:VAL:HG12	22:U2:63:TRP:CD1	2.55	0.41
23:V1:65:MET:HA	23:V1:66:PRO:HD3	1.79	0.41
23:V2:291:LEU:HD13	23:V2:310:VAL:HG22	2.02	0.41
25:X2:685:MET:HG2	27:Z2:13:PHE:CZ	2.55	0.41
25:X2:699:TYR:CE1	27:Z2:49:LEU:N	2.60	0.41
25:X2:714:PHE:CE1	27:Z2:609:LEU:HD21	2.47	0.41
25:X2:818:ILE:CD1	26:Y2:1405:GLN:CD	2.92	0.41
26:Y1:1302:ASP:O	26:Y1:1306:ILE:CG1	2.44	0.41
26:Y2:1126:LEU:CD2	29:b2:63:LYS:HA	2.51	0.41
26:Y2:1295:VAL:N	27:Z2:588:TRP:CZ3	2.73	0.41
26:Y2:1314:LYS:O	26:Y2:1318:LEU:CG	2.65	0.41
26:Y2:1402:LEU:O	26:Y2:1406:VAL:HG23	2.20	0.41
27:Z1:32:GLY:N	27:Z1:368:GLU:OE2	2.53	0.41
27:Z1:69:PHE:CE1	27:Z1:84:ASN:HB2	2.55	0.41
27:Z1:125:SER:OG	27:Z1:146:LYS:CD	2.69	0.41
27:Z1:147:GLU:O	27:Z1:149:ASP:N	2.53	0.41
27:Z1:380:ILE:CG2	27:Z1:382:GLN:CG	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:Z1:541:LYS:HE3	27:Z2:552:ARG:HB2	1.98	0.41
27:Z1:642:ASN:N	27:Z1:645:VAL:HG23	2.32	0.41
27:Z2:213:PRO:CG	27:Z2:213:PRO:O	2.68	0.41
27:Z2:263:TRP:CA	27:Z2:270:VAL:HG22	2.39	0.41
27:Z2:379:ASN:OD1	27:Z2:420:ILE:O	2.37	0.41
28:a2:1079:ARG:O	28:a2:1083:ARG:HG2	2.20	0.41
29:b1:8:THR:CG2	29:b1:8:THR:H	2.18	0.41
29:b1:71:HIS:HB3	29:b1:76:PHE:HE1	1.82	0.41
1:A2:1204:TRP:N	1:A1:599:ARG:HH21	2.18	0.41
1:A2:1333:ARG:HH11	4:D1:1037:GLN:HB3	1.85	0.41
4:D1:1098:LEU:HB3	4:D1:1099:PRO:HD2	2.03	0.41
4:D2:977:GLU:O	4:D2:981:VAL:HG23	2.21	0.41
4:D4:820:HIS:HB3	4:D4:866:PHE:CE1	2.56	0.41
4:D4:1098:LEU:HB3	4:D4:1099:PRO:HD2	2.03	0.41
6:F1:1779:GLY:O	6:F1:1783:LEU:HG	2.20	0.41
6:F2:1544:ALA:N	6:F2:1545:PRO:CD	2.83	0.41
9:I1:1316:ALA:HA	15:O1:269:ILE:HG13	2.02	0.41
9:I2:891:LEU:N	13:M3:591:ASP:CB	2.81	0.41
9:I2:900:ARG:CD	15:O3:235:ASN:HA	2.15	0.41
9:I2:909:ARG:O	13:M3:580:LYS:NZ	2.54	0.41
9:I2:917:TYR:N	15:O3:190:ARG:CA	2.56	0.41
9:I2:1077:LEU:HD23	9:I2:1077:LEU:C	2.46	0.41
17:Q1:68:ILE:HD13	17:Q1:68:ILE:C	2.45	0.41
17:Q1:76:TYR:CE2	17:Q1:78:SER:O	2.74	0.41
17:Q1:305:THR:CG2	17:Q1:306:LYS:N	2.82	0.41
17:Q1:344:SER:O	17:Q1:347:PHE:CE1	2.74	0.41
17:Q1:380:THR:HG23	17:Q1:380:THR:O	2.20	0.41
17:Q1:441:ARG:HH21	17:Q1:444:GLU:HB2	1.84	0.41
17:Q1:529:HIS:CA	17:Q1:532:LYS:HE2	2.50	0.41
17:Q1:718:ILE:N	17:Q1:718:ILE:CD1	2.83	0.41
17:Q1:829:VAL:CG1	17:Q1:830:SER:N	2.82	0.41
17:Q2:58:SER:HB2	17:Q2:70:LYS:CE	2.43	0.41
17:Q2:110:ILE:HG22	17:Q2:110:ILE:O	2.19	0.41
17:Q2:234:ARG:HB3	17:Q2:238:GLY:HA2	2.01	0.41
17:Q2:275:ILE:HG22	17:Q2:277:GLY:H	1.85	0.41
17:Q2:536:GLU:HG3	17:Q2:587:LEU:HD13	2.03	0.41
17:Q2:584:LYS:CE	17:Q2:708:TRP:CH2	2.95	0.41
17:Q2:650:LEU:HG	17:Q2:654:VAL:HG13	2.02	0.41
17:Q2:716:ASN:HA	17:Q2:719:ASN:CB	2.49	0.41
17:Q2:852:ILE:CG2	17:Q2:853:LYS:N	2.82	0.41
17:Q2:917:LEU:C	17:Q2:917:LEU:CD2	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:335:HIS:C	18:R1:339:SER:HG	2.29	0.41
18:R1:531:ILE:CG2	18:R1:580:PHE:CD1	3.03	0.41
18:R1:533:LEU:CD2	18:R1:549:PHE:CZ	3.04	0.41
18:R1:558:ILE:HG12	18:R1:584:ILE:HD13	2.03	0.41
18:R1:625:LYS:CD	18:R1:628:PHE:HE1	2.34	0.41
18:R1:634:PHE:CE2	18:R1:635:LEU:HG	2.54	0.41
18:R1:664:LEU:HD13	18:R1:690:PHE:CZ	2.54	0.41
19:R2:664:LEU:CD1	19:R2:694:VAL:HG22	2.51	0.41
19:R2:684:ILE:HD12	19:R2:722:ALA:HA	1.97	0.41
20:S1:162:THR:HG22	20:S1:163:LYS:N	2.35	0.41
21:T1:60:ASP:H	21:T1:70:LEU:CD1	2.32	0.41
23:V1:246:TRP:CD1	23:V1:331:TYR:CD2	3.09	0.41
23:V1:511:TYR:HA	23:V1:512:PRO:HD3	1.73	0.41
23:V2:95:ILE:HA	23:V2:96:PRO:HD3	1.90	0.41
23:V2:215:SER:HB2	23:V2:390:TRP:CH2	2.54	0.41
24:W1:153:GLN:OE1	24:W1:193:HIS:HA	2.20	0.41
24:W1:436:HIS:CD2	24:W1:438:GLU:H	2.37	0.41
25:X1:683:ALA:CB	26:Y1:1281:MET:HE3	2.37	0.41
25:X1:765:LEU:HD22	27:Z1:652:GLN:CD	2.13	0.41
25:X1:818:ILE:CD1	26:Y1:1405:GLN:CD	2.92	0.41
25:X2:644:TRP:HZ3	26:Y2:1225:PHE:HB3	1.84	0.41
25:X2:791:ILE:HA	25:X2:794:ILE:CG1	2.39	0.41
26:Y1:1272:ILE:O	26:Y1:1276:ILE:CG1	2.66	0.41
26:Y1:1294:LYS:HG3	27:Z1:588:TRP:HE1	1.75	0.41
26:Y2:1369:PHE:N	26:Y2:1383:ALA:CB	2.83	0.41
27:Z1:190:ASP:CA	27:Z1:311:GLN:HG3	2.40	0.41
27:Z1:213:PRO:CG	27:Z1:213:PRO:O	2.68	0.41
27:Z1:252:GLN:CB	27:Z1:335:MET:CG	2.53	0.41
27:Z1:393:LEU:O	27:Z1:397:ILE:HG13	2.20	0.41
27:Z2:143:VAL:CG2	27:Z2:153:MET:SD	2.80	0.41
27:Z2:376:ILE:HG12	27:Z2:381:ILE:HG12	2.02	0.41
29:b1:49:LEU:HD23	29:b1:53:TYR:CE2	2.55	0.41
29:b1:69:VAL:HG21	29:b1:76:PHE:HZ	1.85	0.41
1:A3:1242:THR:HG22	1:A3:1245:ASP:H	1.85	0.41
1:A3:1328:ARG:NH1	4:D3:872:LEU:HD11	2.34	0.41
1:A4:1242:THR:HG22	1:A4:1245:ASP:H	1.85	0.41
6:F1:135:VAL:CG2	9:I1:1336:MET:HB3	2.50	0.41
6:F2:462:SER:N	6:F2:463:PRO:CD	2.84	0.41
6:F2:1351:VAL:O	6:F2:1352:LYS:HG2	2.21	0.41
7:G1:255:LEU:HD21	15:O2:245:GLU:HG3	1.68	0.41
9:I1:1046:HIS:NE2	15:O1:168:ALA:CB	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I1:1049:LEU:HB3	15:O1:170:LEU:CB	2.26	0.41
9:I2:809:HIS:NE2	15:O3:243:LEU:N	2.53	0.41
9:I2:1032:THR:N	13:M3:621:ARG:HD2	2.36	0.41
9:I2:1160:ILE:CD1	15:O3:263:GLN:HG2	2.51	0.41
9:I2:1371:LEU:O	9:I2:1371:LEU:HD23	2.20	0.41
13:M3:614:ASP:HB2	13:M3:615:PRO:HD2	2.03	0.41
17:Q1:533:LEU:C	17:Q1:533:LEU:CD2	2.94	0.41
17:Q1:588:ILE:CG2	17:Q1:589:GLU:N	2.82	0.41
17:Q1:646:PHE:CE2	17:Q1:669:VAL:CG1	3.03	0.41
17:Q1:823:GLN:C	17:Q1:825:ASP:N	2.77	0.41
17:Q1:856:LYS:CB	17:Q1:859:ASP:CA	2.97	0.41
17:Q1:983:VAL:HG13	17:Q1:1104:ILE:CD1	2.51	0.41
17:Q1:1024:VAL:CG2	17:Q1:1025:ASP:N	2.82	0.41
17:Q2:332:LYS:HB3	17:Q2:352:TYR:CD2	2.54	0.41
17:Q2:532:LYS:HB3	17:Q2:579:ILE:HG22	2.02	0.41
17:Q2:714:TYR:CD2	17:Q2:715:LEU:O	2.74	0.41
17:Q2:958:LYS:C	17:Q2:958:LYS:CD	2.94	0.41
18:R1:435:PHE:CB	18:R1:448:ILE:HD11	2.48	0.41
18:R1:465:ILE:CG2	18:R1:466:ASN:N	2.83	0.41
18:R1:591:ILE:CG2	18:R1:592:LYS:N	2.84	0.41
18:R1:617:ILE:CD1	18:R1:670:LYS:HG2	2.51	0.41
19:R2:620:LEU:C	19:R2:620:LEU:CD1	2.94	0.41
19:R2:650:GLU:O	19:R2:653:TYR:CD2	2.74	0.41
19:R2:704:LEU:H	19:R2:704:LEU:CD2	2.32	0.41
21:T1:78:LYS:HA	21:T1:96:ALA:HB2	2.03	0.41
22:U1:189:GLU:HA	22:U1:213:SER:O	2.20	0.41
22:U1:313:ASN:HD22	22:U1:313:ASN:HA	1.61	0.41
23:V2:220:ASP:OD2	23:V2:222:GLU:HB3	2.21	0.41
25:X1:811:SER:CA	26:Y1:1402:LEU:CD1	2.99	0.41
25:X2:693:ILE:O	27:Z2:432:ASN:CG	2.47	0.41
25:X2:811:SER:CA	26:Y2:1402:LEU:CD1	2.99	0.41
26:Y2:1345:LEU:HA	26:Y2:1348:LYS:CG	2.50	0.41
27:Z2:147:GLU:O	27:Z2:149:ASP:N	2.53	0.41
1:A2:773:PHE:CZ	1:A2:818:LEU:HD12	2.48	0.41
1:A2:1040:PHE:CD2	1:A2:1040:PHE:C	2.99	0.41
1:A2:1227:PRO:CD	1:A1:647:GLU:CG	2.79	0.41
1:A2:1230:TYR:CD2	1:A1:590:SER:O	2.73	0.41
1:A2:1281:LEU:HD12	1:A1:635:ARG:HH11	1.77	0.41
1:A3:773:PHE:CZ	1:A3:818:LEU:HD12	2.48	0.41
2:B4:354:LEU:HD12	2:B4:354:LEU:C	2.45	0.41
4:D1:1091:THR:OG1	4:D1:1092:SER:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D3:977:GLU:O	4:D3:981:VAL:HG23	2.21	0.41
4:D4:791:PRO:HG2	4:D4:832:GLU:HG3	2.03	0.41
4:D4:1001:TRP:HE1	4:D4:1056:ARG:HG3	1.85	0.41
6:F1:462:SER:N	6:F1:463:PRO:CD	2.84	0.41
7:G1:252:LEU:C	15:O2:243:LEU:HD22	2.38	0.41
7:G2:251:TYR:O	15:O4:252:VAL:HG22	2.20	0.41
9:I1:908:ARG:HD2	13:M1:552:TYR:HB2	1.77	0.41
9:I1:1077:LEU:HD23	9:I1:1077:LEU:C	2.46	0.41
9:I1:1605:LEU:C	9:I1:1605:LEU:HD12	2.46	0.41
9:I2:896:PRO:HA	13:M3:584:GLN:C	2.46	0.41
9:I2:1049:LEU:CD2	14:N3:294:SER:C	2.94	0.41
10:J2:249:ASP:HA	14:N3:428:ASP:OD1	2.20	0.41
13:M3:476:THR:CG2	14:N4:323:ARG:HD3	2.51	0.41
15:O3:98:TYR:CD1	15:O3:138:LEU:HA	2.56	0.41
17:Q1:141:THR:CG2	17:Q1:163:GLY:CA	2.95	0.41
17:Q1:142:PHE:CD2	17:Q1:143:PRO:O	2.74	0.41
17:Q1:337:HIS:CE1	17:Q1:404:MET:SD	3.14	0.41
17:Q1:478:PHE:CZ	17:Q1:479:VAL:O	2.74	0.41
17:Q1:589:GLU:HG2	17:Q1:688:THR:CG2	2.50	0.41
17:Q1:606:GLN:H	17:Q1:609:VAL:CG1	2.33	0.41
17:Q1:791:VAL:CG1	17:Q1:792:LEU:N	2.82	0.41
17:Q1:884:HIS:O	17:Q1:887:TRP:CD1	2.74	0.41
17:Q1:999:LEU:C	17:Q1:999:LEU:CD1	2.94	0.41
17:Q2:103:LYS:C	17:Q2:104:LYS:HG3	2.45	0.41
17:Q2:232:THR:O	17:Q2:242:LEU:HA	2.21	0.41
17:Q2:316:ILE:HG13	17:Q2:331:LEU:CD2	2.50	0.41
17:Q2:337:HIS:CE1	17:Q2:404:MET:SD	3.14	0.41
17:Q2:584:LYS:HB3	17:Q2:586:ASP:CA	2.51	0.41
17:Q2:743:LEU:C	17:Q2:743:LEU:CD2	2.94	0.41
17:Q2:746:VAL:O	17:Q2:750:TYR:CD2	2.74	0.41
17:Q2:933:LEU:C	17:Q2:933:LEU:CD1	2.94	0.41
17:Q2:951:LEU:C	17:Q2:951:LEU:CD2	2.94	0.41
17:Q2:1131:ILE:CG2	17:Q2:1132:LYS:N	2.83	0.41
18:R1:242:LEU:O	18:R1:243:TRP:C	2.63	0.41
18:R1:438:GLU:HG3	18:R1:439:SER:H	1.85	0.41
19:R2:621:GLN:HA	19:R2:670:LYS:HE2	2.01	0.41
20:S2:418:PRO:HB3	20:S2:445:ALA:HB1	2.01	0.41
20:S2:539:PHE:CD1	20:S2:539:PHE:C	2.98	0.41
22:U1:192:ILE:HA	27:Z1:664:ARG:CB	2.47	0.41
23:V1:159:ILE:HD13	23:V1:176:GLU:HA	2.01	0.41
23:V2:240:PHE:CD1	23:V2:268:SER:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X1:701:GLU:HG2	27:Z1:591:GLN:HE22	1.85	0.41
25:X1:776:PHE:HE1	25:X1:795:LYS:CG	2.31	0.41
25:X2:698:GLN:CG	27:Z2:432:ASN:HA	2.43	0.41
25:X2:778:LYS:HG2	25:X2:795:LYS:N	2.15	0.41
27:Z1:683:LEU:O	27:Z1:687:LEU:HG	2.21	0.41
27:Z2:155:ASP:HB2	27:Z2:161:GLU:HG3	2.02	0.41
27:Z2:287:ILE:CD1	27:Z2:327:LEU:HD13	2.50	0.41
27:Z2:329:LYS:CE	27:Z2:333:MET:SD	3.00	0.41
27:Z2:683:LEU:O	27:Z2:687:LEU:HG	2.21	0.41
1:A2:1226:LEU:CD2	1:A1:647:GLU:CA	2.93	0.41
1:A2:1331:GLU:HB2	4:D1:902:SER:HB2	2.02	0.41
1:A2:1332:ARG:HD2	4:D1:979:ASN:OD1	2.20	0.41
1:A3:1241:ARG:HE	1:A3:1241:ARG:HB3	1.72	0.41
1:A4:442:ARG:CZ	4:D3:1022:PRO:CD	2.99	0.41
4:D2:395:LEU:HD11	4:D2:735:VAL:HG21	2.01	0.41
6:F1:138:ILE:N	9:I1:1392:VAL:CG2	2.84	0.41
6:F1:162:VAL:CA	9:I1:1331:LYS:HB2	2.51	0.41
6:F1:701:GLU:N	6:F1:701:GLU:OE2	2.53	0.41
6:F2:140:GLU:OE1	9:I2:1391:THR:N	2.53	0.41
6:F2:1193:MET:HB3	6:F2:1251:TYR:HB3	2.03	0.41
6:F2:1471:PHE:CG	6:F2:1472:GLY:N	2.89	0.41
6:F2:1779:GLY:O	6:F2:1783:LEU:HG	2.21	0.41
9:I1:900:ARG:HB2	13:M1:580:LYS:CA	2.33	0.41
9:I1:900:ARG:N	13:M1:580:LYS:N	2.69	0.41
9:I1:1050:SER:H	15:O1:174:LEU:HD13	1.32	0.41
9:I2:809:HIS:NE2	15:O3:243:LEU:HD12	2.36	0.41
9:I2:809:HIS:CB	15:O3:244:GLU:N	2.47	0.41
9:I2:813:ILE:HG23	15:O3:241:SER:HB3	1.97	0.41
9:I2:889:THR:CB	13:M3:594:LYS:HD2	2.51	0.41
9:I2:1305:LEU:HB2	15:O3:263:GLN:HE21	1.78	0.41
9:I2:1644:ARG:NH2	9:I2:1721:GLU:OE1	2.54	0.41
15:O2:75:ILE:N	15:O2:76:PRO:CD	2.83	0.41
15:O2:98:TYR:CD1	15:O2:138:LEU:HA	2.56	0.41
17:Q1:64:ASN:CG	17:Q1:67:TYR:H	2.28	0.41
17:Q1:139:ILE:O	17:Q1:139:ILE:HG23	2.19	0.41
17:Q1:264:ASN:HB3	17:Q1:289:LYS:CB	2.44	0.41
17:Q1:332:LYS:HB3	17:Q1:352:TYR:CD2	2.54	0.41
17:Q1:335:ASP:CG	17:Q1:399:ILE:HG22	2.46	0.41
17:Q1:383:LEU:HB2	17:Q1:511:PRO:HG3	1.59	0.41
17:Q1:456:ILE:CG1	17:Q1:468:LEU:CB	2.98	0.41
17:Q1:528:GLU:HB3	17:Q1:579:ILE:HD12	1.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:557:LEU:C	17:Q1:557:LEU:CD2	2.94	0.41
17:Q1:714:TYR:CD2	17:Q1:715:LEU:O	2.74	0.41
17:Q1:958:LYS:C	17:Q1:958:LYS:CD	2.94	0.41
17:Q2:76:TYR:CE2	17:Q2:78:SER:O	2.74	0.41
17:Q2:142:PHE:CD2	17:Q2:143:PRO:O	2.74	0.41
17:Q2:284:TYR:HB3	17:Q2:292:PHE:HE1	1.86	0.41
17:Q2:463:LYS:HE2	17:Q2:463:LYS:CA	2.47	0.41
17:Q2:478:PHE:CZ	17:Q2:479:VAL:O	2.73	0.41
17:Q2:497:HIS:CD2	17:Q2:497:HIS:C	2.99	0.41
17:Q2:509:ALA:HB2	17:Q2:570:PHE:CD1	2.56	0.41
17:Q2:533:LEU:C	17:Q2:533:LEU:CD2	2.94	0.41
17:Q2:600:PHE:CZ	17:Q2:675:LEU:CD1	3.03	0.41
17:Q2:618:LEU:C	17:Q2:618:LEU:CD2	2.94	0.41
17:Q2:725:PHE:CE1	17:Q2:729:CYS:SG	3.14	0.41
17:Q2:808:TYR:CD2	17:Q2:811:LEU:HB2	2.53	0.41
17:Q2:823:GLN:C	17:Q2:825:ASP:N	2.77	0.41
17:Q2:884:HIS:O	17:Q2:887:TRP:CD1	2.74	0.41
17:Q2:890:GLN:CB	17:Q2:899:ALA:HB2	2.51	0.41
17:Q2:933:LEU:HD21	19:R2:712:LYS:CA	2.51	0.41
17:Q2:1073:ASN:HD22	17:Q2:1073:ASN:H	1.69	0.41
17:Q2:1147:THR:O	17:Q2:1147:THR:HG23	2.20	0.41
18:R1:438:GLU:CG	18:R1:439:SER:N	2.82	0.41
18:R1:465:ILE:HD13	18:R1:473:SER:OG	2.20	0.41
18:R1:483:VAL:CG2	18:R1:516:TRP:CE2	2.96	0.41
18:R1:510:LEU:CB	18:R1:533:LEU:CD1	2.94	0.41
18:R1:527:VAL:C	18:R1:530:ILE:HG22	2.46	0.41
18:R1:543:VAL:CG2	18:R1:544:LYS:N	2.82	0.41
18:R1:617:ILE:CG2	18:R1:618:GLU:N	2.83	0.41
18:R1:650:GLU:O	18:R1:653:TYR:CD2	2.74	0.41
19:R2:531:ILE:HG13	19:R2:532:ALA:N	2.36	0.41
19:R2:635:LEU:HB3	19:R2:652:LEU:HD22	2.03	0.41
19:R2:684:ILE:CD1	19:R2:688:LEU:CD2	2.94	0.41
20:S1:416:ASP:HA	20:S1:443:THR:CG2	2.44	0.41
20:S2:292:ILE:H	20:S2:292:ILE:CD1	2.27	0.41
21:T1:48:THR:O	21:T1:49:LEU:HD23	2.21	0.41
21:T2:59:VAL:HB	21:T2:70:LEU:HD11	2.03	0.41
21:T2:217:LEU:HD13	21:T2:218:LEU:N	2.36	0.41
22:U1:206:ALA:N	27:Z1:668:GLU:OE1	2.54	0.41
22:U1:206:ALA:H	27:Z1:668:GLU:CD	2.25	0.41
22:U1:288:LEU:HD21	25:X1:796:ILE:HG13	1.99	0.41
22:U1:295:GLU:CA	27:Z1:658:LEU:HG	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U2:86:GLU:HB2	22:U2:98:TRP:CZ2	2.56	0.41
23:V1:57:PRO:HB2	23:V1:82:ILE:HD11	2.03	0.41
23:V1:373:GLU:O	23:V1:377:MET:HG3	2.21	0.41
23:V1:434:PHE:CD2	23:V1:458:ARG:HA	2.56	0.41
23:V2:168:ARG:HD3	23:V2:170:ASN:HB3	2.02	0.41
23:V2:246:TRP:CD1	23:V2:331:TYR:CD2	3.09	0.41
23:V2:531:LEU:HB3	23:V2:534:ILE:CG1	2.51	0.41
24:W1:396:ASP:OD2	24:W1:399:THR:OG1	2.36	0.41
24:W2:111:GLN:HG3	24:W2:168:TYR:CG	2.55	0.41
24:W2:167:PHE:O	24:W2:174:SER:HB2	2.21	0.41
25:X1:648:LEU:CD1	27:Z1:535:PHE:CE2	3.03	0.41
25:X1:700:ILE:HA	26:Y1:1298:TYR:HE1	1.84	0.41
25:X1:777:ASN:O	25:X1:778:LYS:CD	2.65	0.41
25:X1:817:GLN:HB3	27:Z1:708:PHE:CE2	2.55	0.41
25:X1:819:ASN:HA	25:X1:822:LYS:CD	2.51	0.41
25:X2:692:LYS:HD3	27:Z2:10:LEU:HD23	1.09	0.41
25:X2:700:ILE:HA	26:Y2:1298:TYR:HE1	1.84	0.41
25:X2:701:GLU:HG2	27:Z2:591:GLN:HE22	1.86	0.41
25:X2:778:LYS:HG3	25:X2:794:ILE:HG13	1.99	0.41
26:Y1:1435:LYS:HE3	27:Z1:225:LEU:HD22	1.91	0.41
26:Y2:1298:TYR:HE2	27:Z2:591:GLN:HB2	1.84	0.41
27:Z1:297:TYR:CG	27:Z1:321:ASP:CG	2.95	0.41
27:Z1:358:ARG:CB	27:Z1:377:SER:OG	2.69	0.41
27:Z2:26:ILE:CG2	27:Z2:440:MET:CG	2.99	0.41
27:Z2:65:LEU:HD21	27:Z2:82:LEU:HD13	2.03	0.41
27:Z2:69:PHE:CD1	27:Z2:84:ASN:ND2	2.85	0.41
27:Z2:208:PHE:CD1	27:Z2:211:PHE:HB2	2.56	0.41
28:a1:1079:ARG:O	28:a1:1083:ARG:HG2	2.20	0.41
29:b1:16:ILE:CB	29:b1:74:GLY:O	2.68	0.41
29:b2:63:LYS:HD2	29:b2:63:LYS:HA	1.98	0.41
1:A2:1091:VAL:HG12	4:D1:1104:GLU:CG	2.51	0.41
1:A2:1099:GLN:HE22	14:N1:411:GLN:HE22	1.69	0.41
1:A4:861:GLN:O	1:A4:865:ALA:N	2.52	0.41
4:D1:1015:PRO:C	4:D1:1016:LEU:HD12	2.46	0.41
4:D2:664:ASN:O	4:D2:667:ARG:NH2	2.50	0.41
4:D4:1015:PRO:C	4:D4:1016:LEU:HD12	2.46	0.41
6:F1:138:ILE:CA	9:I1:1391:THR:HB	2.50	0.41
6:F1:138:ILE:HG22	9:I1:1392:VAL:HA	2.02	0.41
6:F1:1193:MET:HB3	6:F1:1251:TYR:HB3	2.03	0.41
6:F1:1776:THR:HG23	6:F1:1776:THR:O	2.20	0.41
6:F2:140:GLU:N	9:I2:1391:THR:CG2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I2:909:ARG:H	13:M3:580:LYS:NZ	2.19	0.41
9:I2:968:PRO:CD	15:O3:177:HIS:NE2	2.84	0.41
13:M1:614:ASP:HB2	13:M1:615:PRO:HD2	2.03	0.41
15:O1:142:PHE:O	15:O1:145:ILE:HG22	2.21	0.41
17:Q1:120:ILE:CD1	17:Q1:120:ILE:C	2.94	0.41
17:Q1:136:PRO:HB3	17:Q1:168:LYS:HG2	2.01	0.41
17:Q1:196:LEU:CD1	17:Q1:196:LEU:C	2.94	0.41
17:Q1:232:THR:O	17:Q1:242:LEU:HA	2.21	0.41
17:Q1:466:TYR:HA	17:Q1:475:LEU:O	2.21	0.41
17:Q1:520:ILE:CG2	17:Q1:521:SER:N	2.84	0.41
17:Q1:527:ILE:CD1	17:Q1:530:ASP:CB	2.96	0.41
17:Q1:539:PHE:CE1	17:Q1:588:ILE:HG12	2.55	0.41
17:Q1:542:ASN:OD1	17:Q1:563:PHE:CD2	2.74	0.41
17:Q1:600:PHE:CZ	17:Q1:675:LEU:CD1	3.03	0.41
17:Q1:616:LYS:HZ3	17:Q1:634:VAL:HG11	1.85	0.41
17:Q1:703:THR:HG21	17:Q1:709:PHE:CD2	2.52	0.41
17:Q1:725:PHE:CD1	17:Q1:740:GLU:CG	2.95	0.41
17:Q1:745:ILE:HD13	17:Q1:800:GLN:CG	2.51	0.41
17:Q1:748:ILE:HD13	17:Q1:748:ILE:C	2.43	0.41
17:Q1:802:ILE:C	17:Q1:802:ILE:CD1	2.94	0.41
17:Q1:1087:LYS:CG	17:Q1:1117:ILE:HG21	2.50	0.41
17:Q2:111:HIS:CD2	17:Q2:514:PHE:CB	3.01	0.41
17:Q2:288:ASN:HA	17:Q2:333:ILE:HG23	2.03	0.41
17:Q2:463:LYS:O	17:Q2:478:PHE:CD1	2.74	0.41
17:Q2:539:PHE:CE1	17:Q2:588:ILE:HG12	2.56	0.41
17:Q2:557:LEU:C	17:Q2:557:LEU:CD2	2.94	0.41
17:Q2:591:PHE:CE1	17:Q2:637:ASN:OD1	2.74	0.41
17:Q2:629:LEU:CD2	17:Q2:632:LYS:CB	2.94	0.41
17:Q2:703:THR:HG21	17:Q2:709:PHE:CD2	2.52	0.41
17:Q2:743:LEU:HD23	17:Q2:747:LYS:HG3	2.03	0.41
17:Q2:1091:THR:CG2	17:Q2:1093:GLU:HG2	2.51	0.41
18:R1:206:ILE:HG22	18:R1:210:MET:HE2	2.02	0.41
18:R1:433:ALA:HB1	18:R1:453:GLU:CB	2.38	0.41
18:R1:436:LEU:CA	18:R1:448:ILE:O	2.69	0.41
18:R1:647:ALA:O	18:R1:651:ILE:HG23	2.20	0.41
19:R2:104:LEU:HD23	19:R2:104:LEU:HA	1.96	0.41
20:S1:513:MET:HA	20:S1:541:ALA:HB1	2.02	0.41
21:T2:78:LYS:HA	21:T2:96:ALA:HB2	2.03	0.41
22:U2:77:TYR:HD1	22:U2:110:SER:HB3	1.86	0.41
23:V2:152:LEU:CD2	23:V2:182:LEU:HB3	2.43	0.41
25:X2:648:LEU:CD1	27:Z2:535:PHE:CG	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y1:1408:ARG:O	26:Y1:1412:GLU:HG2	2.21	0.41
26:Y1:1449:ILE:CD1	27:Z1:397:ILE:HG12	2.51	0.41
26:Y2:1338:GLN:HG2	27:Z1:108:ALA:CB	2.41	0.41
27:Z1:13:PHE:CE1	27:Z1:445:LEU:HD22	2.52	0.41
27:Z1:329:LYS:CE	27:Z1:333:MET:CG	2.88	0.41
27:Z1:682:GLU:OE1	27:Z2:650:SER:HB3	2.21	0.41
27:Z2:125:SER:OG	27:Z2:146:LYS:CD	2.69	0.41
27:Z2:358:ARG:CB	27:Z2:377:SER:OG	2.69	0.41
29:b2:42:ALA:CB	29:b2:59:VAL:CG2	2.91	0.41
29:b2:71:HIS:CD2	29:b2:71:HIS:N	2.81	0.41
29:b2:77:VAL:HG21	29:b2:79:PHE:CE1	2.42	0.41
1:A1:1040:PHE:CD2	1:A1:1040:PHE:C	2.99	0.41
1:A2:1200:ARG:HB3	1:A1:595:GLU:HB3	1.78	0.40
1:A3:1091:VAL:HG13	4:D3:1100:PRO:CA	1.82	0.40
1:A3:1327:VAL:CB	4:D3:873:GLN:HA	2.44	0.40
4:D1:664:ASN:O	4:D1:667:ARG:NH2	2.50	0.40
4:D2:791:PRO:HG2	4:D2:832:GLU:HG3	2.03	0.40
6:F1:161:ALA:O	9:I1:1335:LYS:CB	2.69	0.40
6:F1:1167:GLU:N	6:F1:1167:GLU:OE1	2.54	0.40
6:F1:1511:VAL:O	6:F1:1511:VAL:HG22	2.21	0.40
6:F1:1669:GLU:HG2	6:F1:1670:ASN:N	2.36	0.40
6:F2:1267:ARG:CZ	15:O4:259:ASP:HA	2.51	0.40
9:I1:1371:LEU:HD23	9:I1:1371:LEU:C	2.46	0.40
9:I2:1048:GLU:O	16:P3:141:ALA:HA	2.19	0.40
9:I2:1106:LYS:CG	15:O3:274:GLY:O	2.55	0.40
9:I2:1304:ASN:ND2	14:N3:414:ALA:CB	2.79	0.40
17:Q1:275:ILE:HG22	17:Q1:277:GLY:H	1.85	0.40
17:Q1:276:LEU:C	17:Q1:280:THR:HG23	2.46	0.40
17:Q1:349:SER:O	17:Q1:363:LEU:HA	2.21	0.40
17:Q1:450:ARG:H	17:Q1:453:ILE:HD12	1.87	0.40
17:Q1:590:LYS:HG2	17:Q1:594:LEU:HD13	2.03	0.40
17:Q1:618:LEU:C	17:Q1:618:LEU:CD2	2.94	0.40
17:Q1:667:LEU:C	17:Q1:667:LEU:CD1	2.94	0.40
17:Q1:681:ILE:C	17:Q1:681:ILE:CD1	2.94	0.40
17:Q1:725:PHE:CE1	17:Q1:729:CYS:SG	3.14	0.40
17:Q1:793:CYS:HA	17:Q1:796:ASN:CG	2.47	0.40
17:Q1:867:GLN:CG	17:Q1:868:HIS:N	2.82	0.40
17:Q1:975:PHE:CE1	17:Q1:1044:ARG:NH2	2.87	0.40
17:Q1:1104:ILE:CG2	17:Q1:1105:ASP:N	2.84	0.40
17:Q1:1147:THR:O	17:Q1:1147:THR:HG23	2.20	0.40
17:Q2:68:ILE:HD13	17:Q2:68:ILE:C	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q2:334:TRP:HE1	17:Q2:352:TYR:HB3	1.86	0.40
17:Q2:542:ASN:OD1	17:Q2:563:PHE:CD2	2.74	0.40
17:Q2:588:ILE:C	17:Q2:588:ILE:CD1	2.94	0.40
17:Q2:606:GLN:H	17:Q2:609:VAL:CG1	2.33	0.40
17:Q2:719:ASN:OD1	17:Q2:723:PHE:CE1	2.74	0.40
17:Q2:983:VAL:HG13	17:Q2:1104:ILE:CD1	2.51	0.40
18:R1:442:LEU:C	18:R1:442:LEU:CD1	2.94	0.40
18:R1:518:ILE:C	18:R1:518:ILE:CD1	2.94	0.40
19:R2:7:TYR:O	19:R2:9:THR:N	2.54	0.40
19:R2:82:LEU:HA	19:R2:82:LEU:HD23	1.87	0.40
19:R2:421:LYS:HE3	19:R2:508:MET:HE1	1.63	0.40
19:R2:507:ASP:OD2	19:R2:537:PHE:CE1	2.74	0.40
19:R2:527:VAL:HB	19:R2:580:PHE:CG	2.56	0.40
19:R2:533:LEU:HD23	19:R2:549:PHE:CD2	2.56	0.40
19:R2:621:GLN:CB	19:R2:670:LYS:HZ1	2.23	0.40
20:S1:153:LYS:HG2	21:T1:261:SER:HB2	2.03	0.40
20:S2:330:ASP:OD2	20:S2:332:ARG:NH2	2.51	0.40
21:T1:253:PHE:CD1	21:T1:257:LEU:HD11	2.56	0.40
21:T2:14:ASP:OD1	21:T2:15:ALA:N	2.54	0.40
22:U1:29:SER:C	22:U1:31:GLN:N	2.78	0.40
22:U2:175:PRO:HD3	22:U2:220:TRP:HB3	2.02	0.40
23:V1:240:PHE:CD1	23:V1:268:SER:HB3	2.56	0.40
23:V2:480:GLU:O	23:V2:483:PRO:HD2	2.21	0.40
24:W1:165:PHE:HB3	24:W1:177:PHE:HB2	2.03	0.40
24:W2:169:VAL:HG13	24:W2:228:LEU:HD22	2.03	0.40
25:X2:815:GLU:CD	26:Y2:1402:LEU:HG	2.45	0.40
27:Z1:422:ARG:HD2	27:Z1:442:ASN:OD1	2.22	0.40
27:Z1:628:MET:CG	27:Z1:632:LYS:HE3	2.50	0.40
27:Z2:38:ILE:HG12	27:Z2:43:ILE:HD12	2.03	0.40
27:Z2:331:LEU:CD1	27:Z2:347:SER:HB2	2.39	0.40
28:a1:972:ILE:CG2	28:a1:973:SER:N	2.83	0.40
28:a2:1061:VAL:CG1	28:a2:1066:ARG:HA	2.51	0.40
29:b2:56:THR:HG21	29:b2:92:ALA:N	2.36	0.40
1:A1:1238:ILE:O	1:A1:1242:THR:N	2.42	0.40
1:A2:1221:ILE:N	1:A1:596:ARG:C	2.78	0.40
1:A2:1225:PRO:CA	1:A1:594:LEU:CD1	2.66	0.40
1:A3:1271:ILE:O	1:A4:646:ILE:HD13	2.21	0.40
1:A3:1333:ARG:HD2	4:D3:880:ASP:CA	2.32	0.40
1:A4:1182:ILE:HG21	1:A4:1248:ILE:HA	2.04	0.40
4:D1:977:GLU:O	4:D1:981:VAL:HG23	2.21	0.40
4:D3:1001:TRP:CZ3	4:D3:1060:ARG:NH1	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:1001:TRP:CZ3	4:D4:1060:ARG:NH1	2.90	0.40
6:F1:153:LEU:O	9:I1:1395:LEU:CD2	2.69	0.40
6:F1:158:PRO:HB2	9:I1:1336:MET:HA	1.39	0.40
6:F1:1351:VAL:O	6:F1:1352:LYS:HG2	2.21	0.40
6:F2:1669:GLU:HG2	6:F2:1670:ASN:N	2.36	0.40
7:G1:255:LEU:C	15:O2:242:ARG:HA	2.47	0.40
9:I2:113:GLN:O	9:I2:114:SER:OG	2.38	0.40
9:I2:961:ARG:CB	16:P3:155:GLU:O	2.68	0.40
17:Q1:110:ILE:HG23	17:Q1:474:VAL:HG21	2.04	0.40
17:Q1:163:GLY:O	17:Q1:164:LEU:HD13	2.21	0.40
17:Q1:275:ILE:HD11	17:Q1:281:ARG:HH21	1.85	0.40
17:Q1:384:ASN:CB	17:Q1:509:ALA:CA	2.81	0.40
17:Q1:731:GLU:O	17:Q1:732:GLU:HG3	2.21	0.40
17:Q1:746:VAL:O	17:Q1:750:TYR:CD2	2.74	0.40
17:Q1:999:LEU:CD1	17:Q1:1003:VAL:HG13	2.46	0.40
17:Q2:429:VAL:CG1	17:Q2:430:ASN:N	2.83	0.40
17:Q2:594:LEU:N	17:Q2:594:LEU:HD12	2.37	0.40
17:Q2:611:ASN:CA	17:Q2:614:TRP:HE3	2.26	0.40
17:Q2:811:LEU:HD22	17:Q2:814:LEU:CD2	2.52	0.40
17:Q2:851:LEU:HD21	17:Q2:876:GLN:HB3	2.03	0.40
17:Q2:1057:LEU:C	17:Q2:1057:LEU:CD1	2.94	0.40
18:R1:146:ASN:HB2	18:R1:173:ASP:CG	2.46	0.40
18:R1:343:ILE:HD13	18:R1:344:ARG:H	1.85	0.40
18:R1:582:GLU:OE2	18:R1:632:LYS:HE3	2.21	0.40
19:R2:363:VAL:HG11	19:R2:408:ASP:OD1	2.21	0.40
19:R2:518:ILE:C	19:R2:518:ILE:CD1	2.94	0.40
19:R2:534:SER:HB3	19:R2:546:LEU:HD22	2.03	0.40
19:R2:582:GLU:OE2	19:R2:632:LYS:HE3	2.21	0.40
19:R2:631:ILE:CD1	19:R2:631:ILE:C	2.94	0.40
19:R2:711:LEU:HG	19:R2:714:TYR:CE2	2.47	0.40
20:S1:341:LEU:HD12	20:S1:341:LEU:HA	1.94	0.40
20:S1:345:SER:HB3	20:S1:371:PHE:HE2	1.84	0.40
20:S2:153:LYS:HG2	21:T2:261:SER:HB2	2.03	0.40
21:T1:217:LEU:HD13	21:T1:218:LEU:N	2.36	0.40
21:T1:233:ILE:HD11	21:T1:248:LEU:HD13	2.03	0.40
21:T2:23:ARG:NH1	21:T2:84:GLU:OE1	2.54	0.40
21:T2:223:ALA:HB2	21:T2:262:TRP:CZ2	2.55	0.40
21:T2:253:PHE:CD1	21:T2:257:LEU:HD11	2.56	0.40
22:U1:77:TYR:HD1	22:U1:110:SER:HB3	1.86	0.40
23:V2:373:GLU:O	23:V2:377:MET:HG3	2.21	0.40
26:Y2:1277:LYS:HZ2	27:Z2:571:ILE:N	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Y2:1435:LYS:HE2	27:Z2:225:LEU:HD23	1.82	0.40
26:Y2:1449:ILE:CD1	27:Z2:397:ILE:HG12	2.51	0.40
27:Z1:60:SER:HA	27:Z1:63:LEU:O	2.22	0.40
27:Z1:123:PRO:CD	27:Z1:123:PRO:O	2.58	0.40
27:Z1:299:ALA:HA	27:Z1:318:SER:O	2.22	0.40
27:Z1:404:PRO:CD	27:Z2:262:ASN:CB	2.58	0.40
27:Z1:709:THR:C	27:Z1:712:THR:HG1	2.26	0.40
27:Z2:358:ARG:HB2	27:Z2:377:SER:OG	2.21	0.40
1:A1:780:GLU:HG3	1:A1:822:ILE:HG23	2.02	0.40
1:A3:1091:VAL:CG1	4:D3:1100:PRO:CB	2.92	0.40
1:A3:1330:VAL:HG12	4:D3:873:GLN:O	2.21	0.40
4:D3:435:ARG:H	4:D3:435:ARG:HG2	1.67	0.40
4:D3:1001:TRP:HE1	4:D3:1056:ARG:HG3	1.85	0.40
6:F1:1211:ARG:O	6:F1:1215:GLU:N	2.54	0.40
6:F1:1806:ARG:C	14:N2:412:ASN:CB	2.79	0.40
6:F2:139:GLN:C	9:I2:1392:VAL:HA	2.35	0.40
7:G1:247:ASP:N	15:O2:247:TRP:HH2	2.13	0.40
9:I1:629:VAL:HG23	9:I1:630:ASP:N	2.37	0.40
9:I1:900:ARG:CG	13:M1:577:LEU:HG	2.51	0.40
9:I1:908:ARG:CD	13:M1:552:TYR:CB	2.50	0.40
9:I2:1108:PRO:CA	15:O3:281:ALA:HB2	2.46	0.40
9:I2:1371:LEU:HD23	9:I2:1371:LEU:C	2.46	0.40
15:O1:98:TYR:CD1	15:O1:138:LEU:HA	2.56	0.40
15:O2:142:PHE:O	15:O2:145:ILE:HG22	2.22	0.40
15:O4:98:TYR:CD1	15:O4:138:LEU:HA	2.56	0.40
17:Q1:244:LEU:C	17:Q1:244:LEU:CD2	2.94	0.40
17:Q1:571:VAL:HG23	17:Q1:572:ALA:N	2.36	0.40
17:Q1:650:LEU:HG	17:Q1:654:VAL:HG13	2.02	0.40
17:Q1:754:ASN:CA	17:Q1:757:LYS:HE2	2.33	0.40
17:Q1:851:LEU:HD21	17:Q1:876:GLN:HB3	2.03	0.40
17:Q1:933:LEU:C	17:Q1:933:LEU:CD1	2.94	0.40
17:Q2:334:TRP:CZ3	17:Q2:396:LYS:CB	3.04	0.40
17:Q2:555:GLN:HG2	17:Q2:556:HIS:N	2.36	0.40
17:Q2:604:ILE:HG21	17:Q2:672:LEU:CD1	2.52	0.40
17:Q2:681:ILE:C	17:Q2:681:ILE:CD1	2.94	0.40
17:Q2:822:ASP:OD2	17:Q2:832:TYR:CD1	2.74	0.40
17:Q2:974:ARG:CZ	17:Q2:974:ARG:HB2	2.51	0.40
18:R1:7:TYR:O	18:R1:9:THR:N	2.54	0.40
18:R1:511:ILE:CD1	18:R1:548:GLN:CD	2.94	0.40
18:R1:534:SER:HB3	18:R1:546:LEU:HD22	2.03	0.40
18:R1:635:LEU:HB3	18:R1:652:LEU:HD22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R1:704:LEU:H	18:R1:704:LEU:CD2	2.33	0.40
19:R2:353:ASP:O	19:R2:355:LEU:N	2.51	0.40
19:R2:625:LYS:CD	19:R2:628:PHE:HE1	2.34	0.40
21:T1:209:ASP:OD2	21:T1:259:ARG:HD3	2.21	0.40
21:T1:225:VAL:CG2	21:T1:271:LEU:HD22	2.51	0.40
22:U1:205:ALA:N	27:Z1:668:GLU:CD	2.50	0.40
23:V2:352:THR:OG1	23:V2:355:GLU:HG3	2.21	0.40
25:X1:800:HIS:CD2	27:Z1:691:SER:HA	2.56	0.40
25:X2:815:GLU:OE2	26:Y2:1402:LEU:HG	2.21	0.40
26:Y1:1287:ASN:HD22	26:Y1:1287:ASN:HA	1.84	0.40
26:Y1:1347:GLN:OE1	26:Y1:1350:PHE:CD2	2.74	0.40
27:Z1:24:ARG:CZ	27:Z1:440:MET:HA	2.47	0.40
27:Z1:27:PHE:C	27:Z1:36:VAL:HG12	2.46	0.40
27:Z1:65:LEU:HD21	27:Z1:82:LEU:HD13	2.03	0.40
27:Z1:102:ASP:HB2	27:Z1:105:ILE:HD12	1.99	0.40
27:Z1:353:ARG:NH1	27:Z1:355:LYS:NZ	2.69	0.40
27:Z2:27:PHE:C	27:Z2:36:VAL:HG12	2.46	0.40
27:Z2:223:LEU:HD21	27:Z2:263:TRP:CD1	2.57	0.40
29:b1:24:ILE:HG22	29:b1:79:PHE:CZ	2.46	0.40
29:b1:76:PHE:CD1	29:b1:89:PHE:HB3	2.53	0.40
29:b2:63:LYS:NZ	29:b2:83:PRO:HA	2.36	0.40
1:A4:520:GLU:HG3	4:D3:1017:THR:CG2	2.25	0.40
1:A4:879:LEU:HD21	1:A4:908:LEU:CD1	2.52	0.40
1:A4:1040:PHE:CD2	1:A4:1040:PHE:C	2.99	0.40
4:D2:693:GLY:HA3	4:D2:712:PHE:CZ	2.57	0.40
4:D2:1015:PRO:C	4:D2:1016:LEU:HD12	2.46	0.40
4:D2:1091:THR:OG1	4:D2:1092:SER:N	2.53	0.40
9:I1:767:ASP:HB2	13:M1:546:ARG:NH1	2.36	0.40
9:I1:896:PRO:CB	13:M1:584:GLN:N	2.83	0.40
9:I2:961:ARG:CD	16:P3:157:GLU:HG2	2.49	0.40
9:I2:1301:ASN:O	15:O3:263:GLN:OE1	2.39	0.40
17:Q1:337:HIS:ND1	17:Q1:401:ILE:HB	2.35	0.40
17:Q1:440:ARG:NE	17:Q1:514:PHE:HZ	2.19	0.40
17:Q1:455:ILE:HG23	17:Q1:467:VAL:CG2	2.50	0.40
17:Q1:509:ALA:HB2	17:Q1:570:PHE:CD1	2.56	0.40
17:Q1:651:ASN:HD21	17:Q1:720:GLN:NE2	2.20	0.40
17:Q1:696:LEU:C	17:Q1:696:LEU:CD1	2.95	0.40
17:Q1:742:LEU:C	17:Q1:742:LEU:CD2	2.93	0.40
17:Q1:743:LEU:HD23	17:Q1:747:LYS:HG3	2.03	0.40
17:Q1:780:LEU:C	17:Q1:780:LEU:CD2	2.94	0.40
17:Q1:824:ASN:ND2	17:Q1:833:GLU:CG	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q1:836:PHE:CE2	17:Q1:842:GLU:OE2	2.74	0.40
17:Q1:888:ILE:C	17:Q1:888:ILE:CD1	2.95	0.40
17:Q1:974:ARG:HB2	17:Q1:974:ARG:CZ	2.51	0.40
17:Q1:1091:THR:CG2	17:Q1:1093:GLU:HG2	2.51	0.40
17:Q2:89:TYR:O	17:Q2:89:TYR:CG	2.75	0.40
17:Q2:163:GLY:O	17:Q2:164:LEU:HD13	2.22	0.40
17:Q2:349:SER:O	17:Q2:363:LEU:HA	2.21	0.40
17:Q2:604:ILE:HD13	17:Q2:672:LEU:CD1	2.51	0.40
17:Q2:715:LEU:N	17:Q2:715:LEU:HD12	2.37	0.40
17:Q2:718:ILE:H	17:Q2:718:ILE:CD1	2.34	0.40
17:Q2:731:GLU:O	17:Q2:732:GLU:HG3	2.22	0.40
17:Q2:745:ILE:HD13	17:Q2:800:GLN:CG	2.52	0.40
17:Q2:793:CYS:HA	17:Q2:796:ASN:CG	2.47	0.40
17:Q2:983:VAL:CG1	17:Q2:1104:ILE:CD1	2.99	0.40
18:R1:9:THR:O	18:R1:9:THR:HG22	2.22	0.40
18:R1:621:GLN:HA	18:R1:670:LYS:HE2	2.01	0.40
18:R1:654:GLU:O	18:R1:658:LEU:HD13	2.20	0.40
18:R1:666:GLU:O	18:R1:669:LYS:HB3	2.20	0.40
18:R1:684:ILE:HD12	18:R1:722:ALA:HA	1.97	0.40
18:R1:706:GLN:H	18:R1:710:LYS:CG	2.35	0.40
19:R2:511:ILE:CD1	19:R2:548:GLN:CD	2.94	0.40
19:R2:579:GLN:HE22	19:R2:637:ASP:HB3	1.85	0.40
19:R2:668:HIS:NE2	19:R2:672:VAL:HG21	2.36	0.40
20:S1:153:LYS:HA	21:T1:261:SER:HB2	2.01	0.40
20:S2:247:TYR:CZ	20:S2:260:LEU:HD13	2.56	0.40
20:S2:292:ILE:HA	20:S2:295:ILE:HD12	2.04	0.40
21:T1:14:ASP:OD1	21:T1:15:ALA:N	2.54	0.40
22:U1:86:GLU:HB2	22:U1:98:TRP:CZ2	2.56	0.40
23:V1:60:LYS:C	23:V1:62:GLY:N	2.77	0.40
23:V2:296:PRO:HG2	23:V2:303:PHE:HA	2.03	0.40
23:V2:334:ASP:HB3	23:V2:349:TYR:HE2	1.87	0.40
24:W1:683:SER:OG	24:W1:686:PHE:HB2	2.22	0.40
24:W2:165:PHE:HB3	24:W2:177:PHE:HB2	2.03	0.40
25:X1:693:ILE:O	25:X1:697:LEU:HG	2.21	0.40
25:X2:693:ILE:HD11	26:Y2:1292:LYS:HE2	2.03	0.40
25:X2:821:ILE:CG2	26:Y2:1409:LEU:CD1	2.75	0.40
27:Z1:69:PHE:HZ	27:Z1:87:GLU:OE2	2.05	0.40
27:Z2:448:GLN:HB3	27:Z2:573:LYS:HZ1	1.80	0.40
1:A3:879:LEU:HD21	1:A3:908:LEU:CD1	2.52	0.40
1:A4:127:HIS:N	4:D3:1010:ALA:HB2	2.35	0.40
1:A4:712:THR:HG21	4:D3:969:HIS:CB	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D1:693:GLY:HA3	4:D1:712:PHE:CZ	2.57	0.40
4:D2:820:HIS:HB3	4:D2:866:PHE:CE1	2.56	0.40
4:D2:1001:TRP:CZ3	4:D2:1060:ARG:NH1	2.90	0.40
4:D4:837:ILE:N	4:D4:837:ILE:HD12	2.37	0.40
6:F1:273:ALA:HB3	9:I1:1207:PRO:O	2.22	0.40
6:F1:1065:ARG:O	6:F1:1069:LEU:HG	2.21	0.40
9:I1:1254:VAL:HG23	15:O1:258:GLU:HB3	2.04	0.40
9:I2:966:TRP:C	15:O3:178:ASP:OD1	2.65	0.40
9:I2:1029:LEU:HG	13:M3:613:ASP:HB3	0.43	0.40
9:I2:1193:PHE:O	9:I2:1197:ASN:N	2.50	0.40
14:N3:308:ILE:O	14:N3:312:ARG:N	2.53	0.40
17:Q1:76:TYR:O	17:Q1:76:TYR:CD2	2.75	0.40
17:Q1:332:LYS:C	17:Q1:351:ILE:HG23	2.45	0.40
17:Q1:463:LYS:O	17:Q1:478:PHE:CD1	2.73	0.40
17:Q1:542:ASN:HD22	17:Q1:564:PHE:HB2	1.85	0.40
17:Q1:594:LEU:N	17:Q1:594:LEU:HD12	2.37	0.40
17:Q1:674:ASN:CG	17:Q1:746:VAL:CG1	2.94	0.40
17:Q1:715:LEU:N	17:Q1:715:LEU:HD12	2.37	0.40
17:Q1:843:PHE:CD2	17:Q1:843:PHE:C	2.97	0.40
17:Q1:890:GLN:CB	17:Q1:899:ALA:HB2	2.51	0.40
17:Q2:196:LEU:CD1	17:Q2:196:LEU:C	2.94	0.40
17:Q2:535:SER:O	17:Q2:539:PHE:CD2	2.75	0.40
17:Q2:571:VAL:HG23	17:Q2:572:ALA:N	2.36	0.40
18:R1:448:ILE:CG2	18:R1:449:LEU:N	2.84	0.40
18:R1:511:ILE:O	18:R1:549:PHE:HE1	2.04	0.40
18:R1:590:LEU:C	18:R1:590:LEU:CD1	2.94	0.40
18:R1:620:LEU:C	18:R1:620:LEU:CD1	2.94	0.40
19:R2:13:THR:O	19:R2:17:ASP:HB2	2.21	0.40
19:R2:596:GLU:HG2	19:R2:620:LEU:CA	2.51	0.40
19:R2:613:ILE:CG2	19:R2:614:PRO:CD	3.00	0.40
19:R2:688:LEU:HG	19:R2:718:VAL:HG13	2.03	0.40
20:S1:154:PHE:HA	20:S1:160:LEU:HD22	2.04	0.40
20:S1:247:TYR:CZ	20:S1:260:LEU:HD13	2.56	0.40
20:S1:390:LEU:HD21	20:S1:404:VAL:HG22	2.04	0.40
20:S1:492:LEU:HD11	20:S1:508:ILE:HG23	2.04	0.40
20:S2:161:LEU:HD11	21:T2:17:LEU:HG	2.03	0.40
20:S2:468:LYS:HD2	20:S2:499:ASN:HB3	2.04	0.40
21:T1:74:SER:OG	21:T1:75:TYR:N	2.55	0.40
21:T2:181:LEU:HD22	21:T2:199:THR:CG2	2.51	0.40
21:T2:253:PHE:CE1	21:T2:257:LEU:HD11	2.57	0.40
22:U1:291:ASN:HA	25:X1:802:ASP:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:U1:294:VAL:HG12	27:Z1:658:LEU:HA	2.03	0.40
22:U1:294:VAL:HG21	27:Z1:661:GLU:HA	1.72	0.40
22:U2:83:LEU:HD13	22:U2:148:TRP:CE2	2.57	0.40
23:V1:291:LEU:HD13	23:V1:310:VAL:HG22	2.03	0.40
23:V2:434:PHE:CD2	23:V2:458:ARG:HA	2.56	0.40
24:W1:457:PHE:HA	24:W1:477:GLN:HB2	2.04	0.40
24:W2:153:GLN:OE1	24:W2:193:HIS:HA	2.21	0.40
24:W2:457:PHE:HA	24:W2:477:GLN:HB2	2.04	0.40
26:Y1:1453:PHE:HB2	27:Z1:349:VAL:CG1	2.49	0.40
26:Y2:1123:GLN:HE21	29:b1:37:LEU:HD11	1.73	0.40
26:Y2:1369:PHE:CD2	26:Y2:1385:LEU:HG	2.53	0.40
27:Z1:10:LEU:HA	27:Z1:10:LEU:HD12	1.84	0.40
27:Z1:12:ILE:HD12	27:Z1:12:ILE:HA	1.87	0.40
27:Z1:38:ILE:HG12	27:Z1:43:ILE:HD12	2.02	0.40
27:Z1:593:SER:O	27:Z1:597:GLU:HG3	2.22	0.40
27:Z2:12:ILE:HG13	27:Z2:37:PHE:HD2	1.87	0.40
27:Z2:249:VAL:HA	27:Z2:252:GLN:CG	2.50	0.40
27:Z2:353:ARG:NH1	27:Z2:355:LYS:NZ	2.69	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

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

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
18	R1	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R1	436:LEU	C	437:ASN	N	16.70

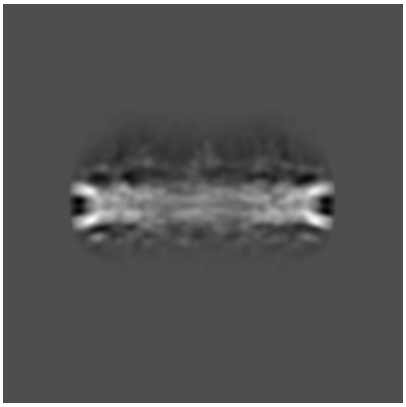
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-10198. These allow visual inspection of the internal detail of the map and identification of artifacts.

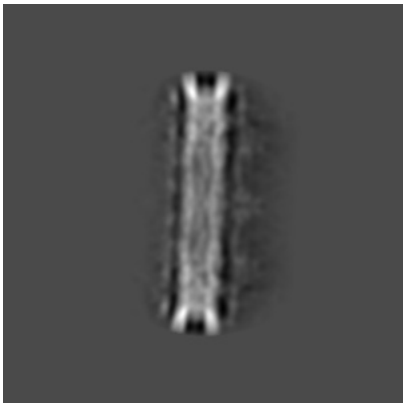
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

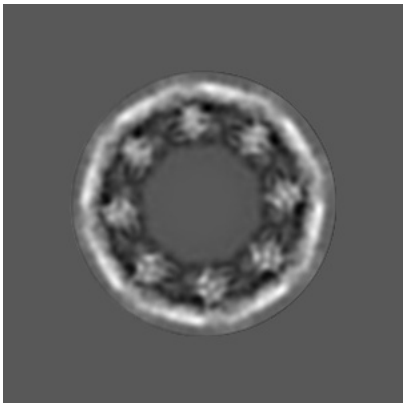
6.1.1 Primary map



X



Y



Z

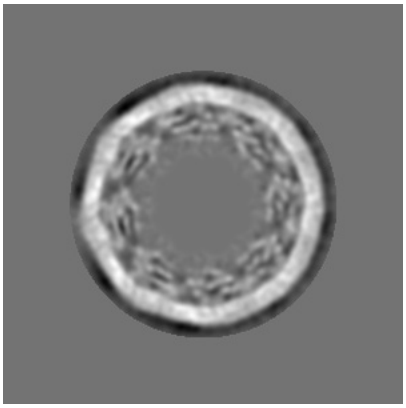
The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map

X Index: 144

Y Index: 144



Z Index: 144

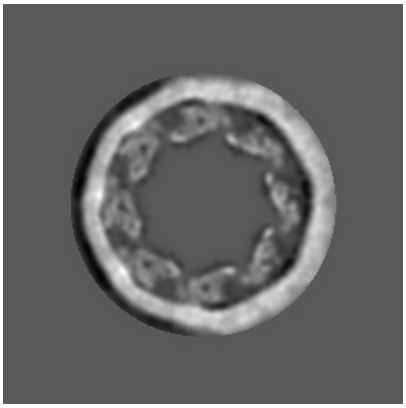
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 67

Y Index: 219

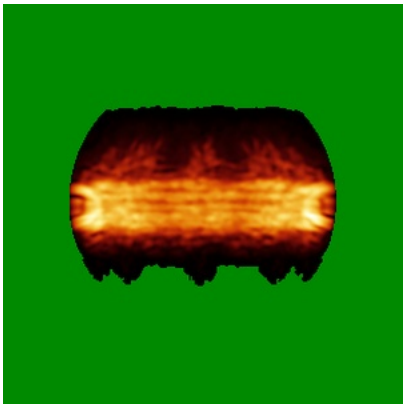


Z Index: 134

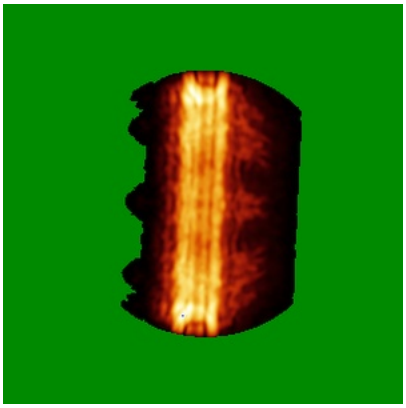
The images above show the largest variance slices of the map in three orthogonal directions.

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

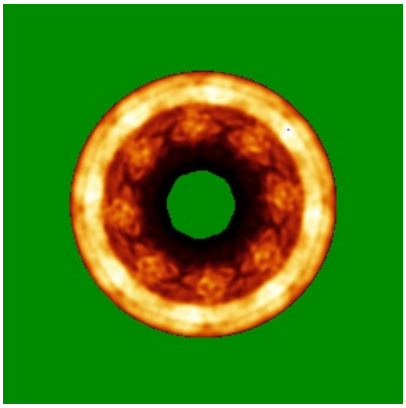
6.4.1 Primary map



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 0.0606. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

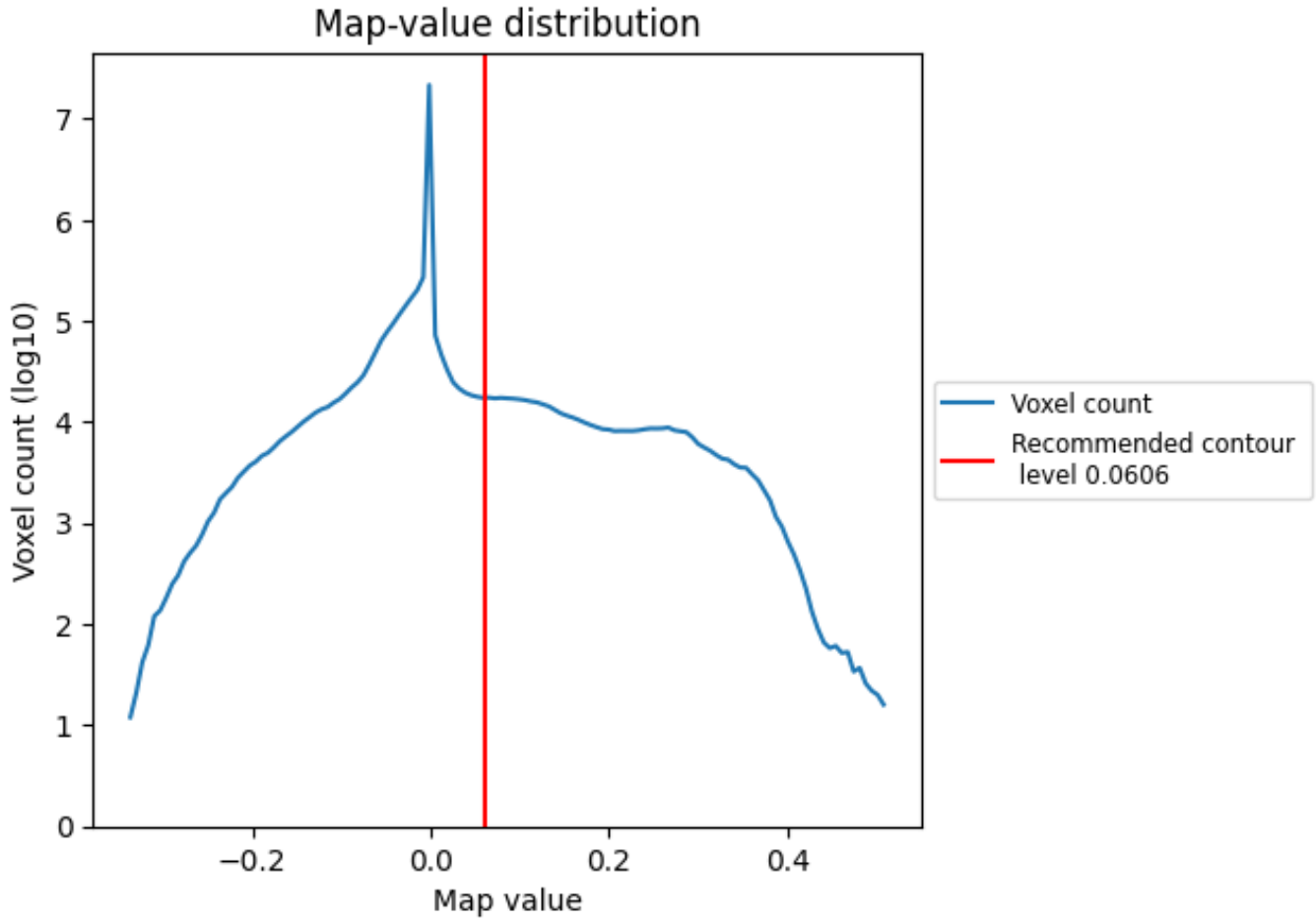
6.6 Mask visualisation (i)

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

7 Map analysis

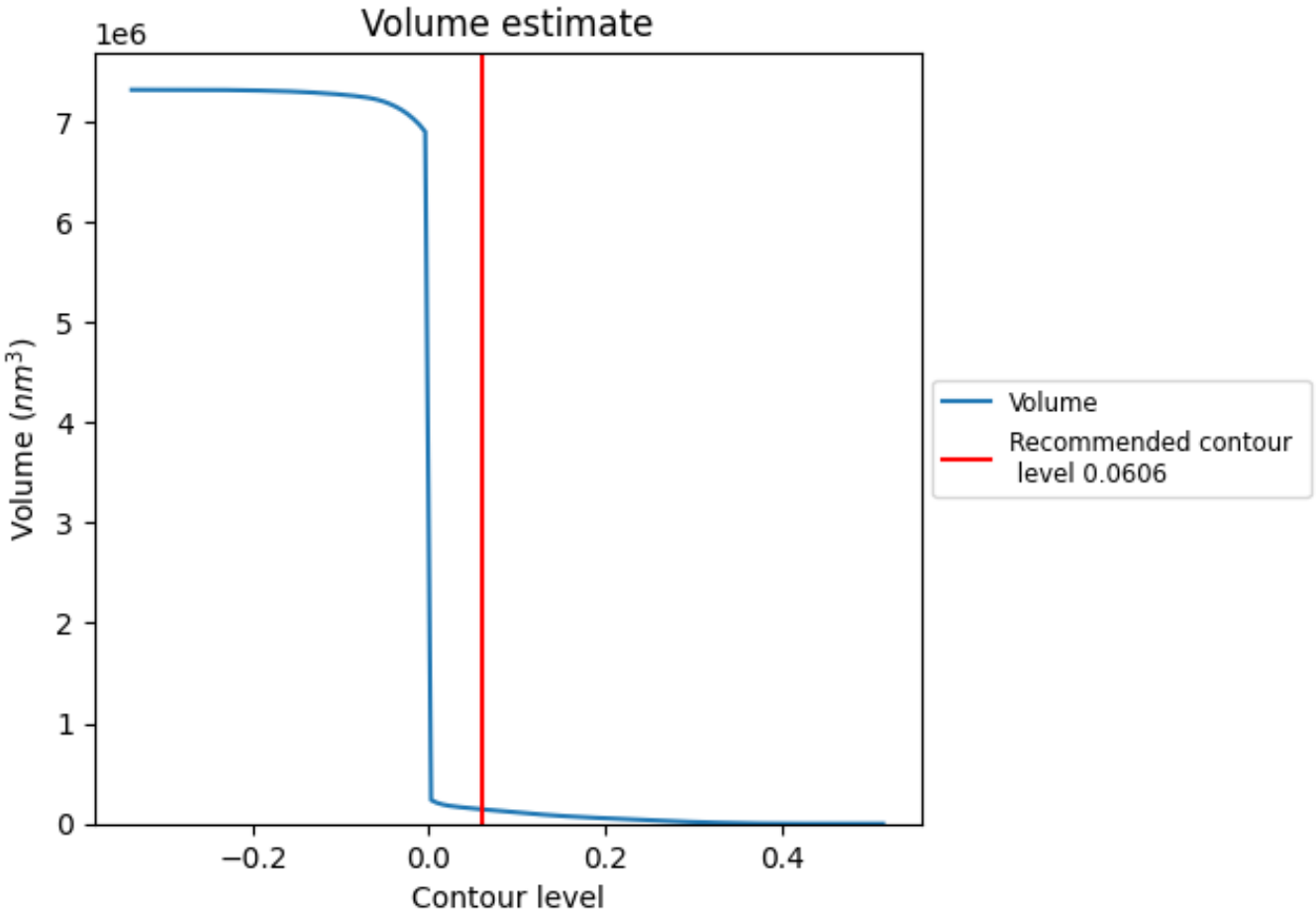
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

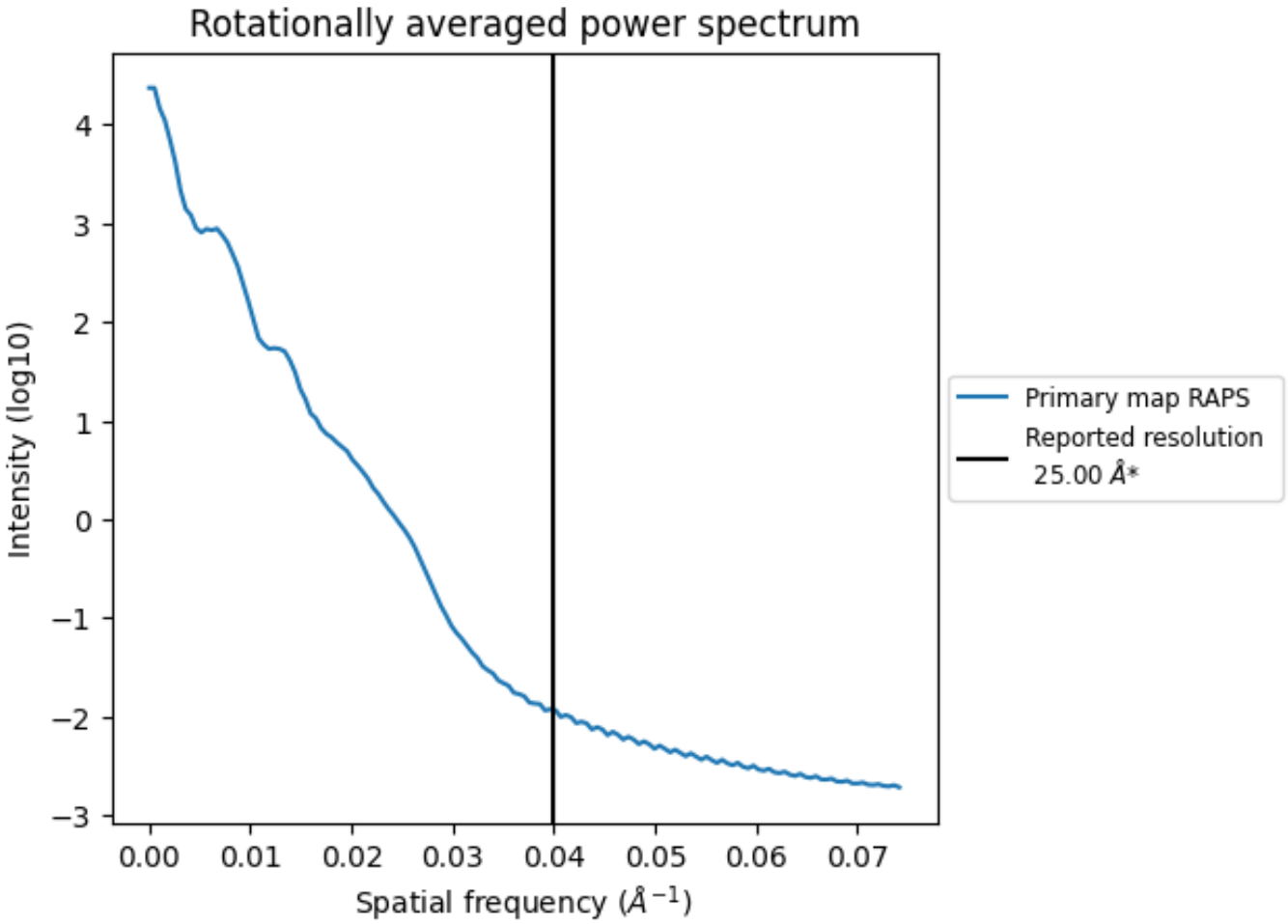
7.2 Volume estimate



The volume at the recommended contour level is 143354 nm^3; this corresponds to an approximate mass of 129496 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.040 Å^{-1}

8 Fourier-Shell correlation

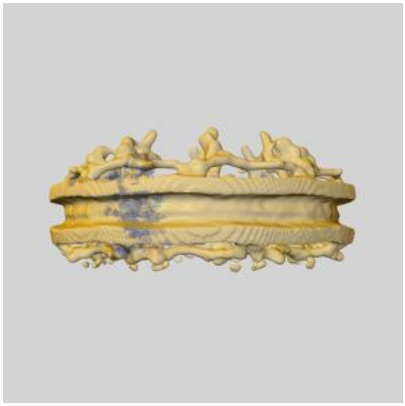
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

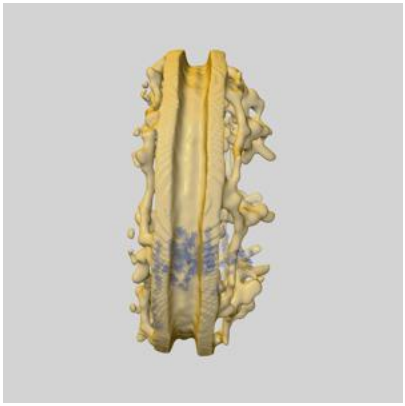
This section contains information regarding the fit between EMDB map EMD-10198 and PDB model 7TBI. Per-residue inclusion information can be found in section 3 on page 13.

9.1 Map-model overlays

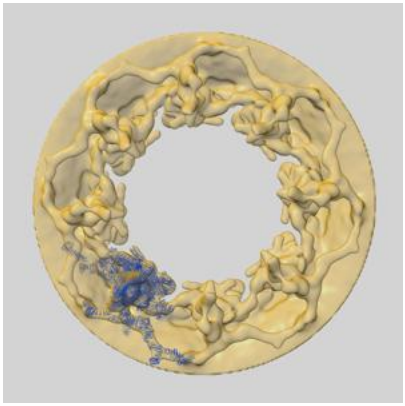
9.1.1 Map-model overlay



X

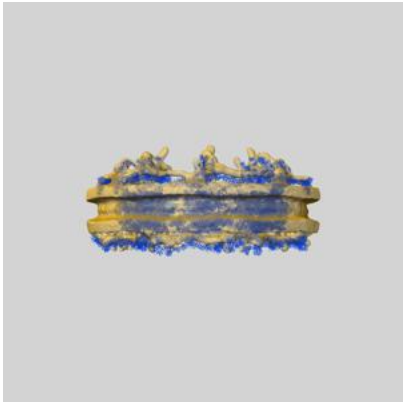


Y

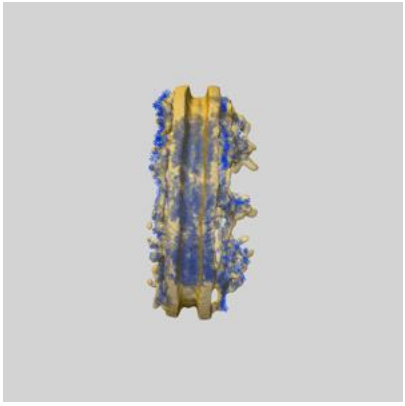


Z

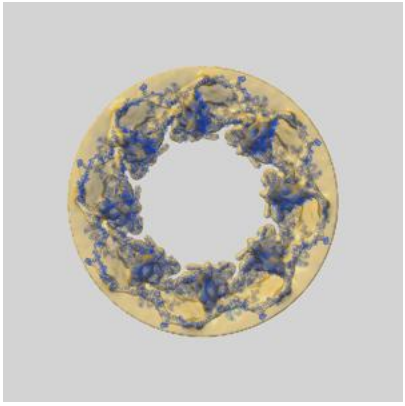
9.1.2 Map-model assembly overlay



X



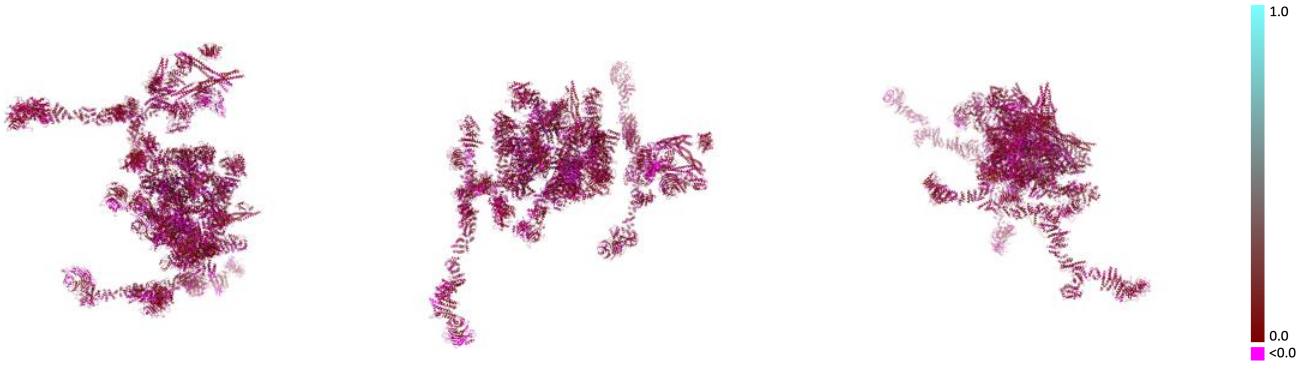
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0606 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.

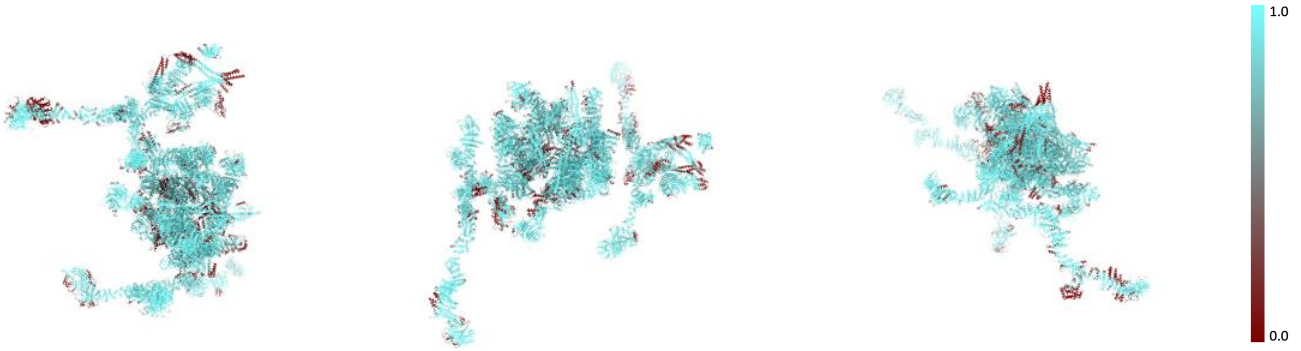
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

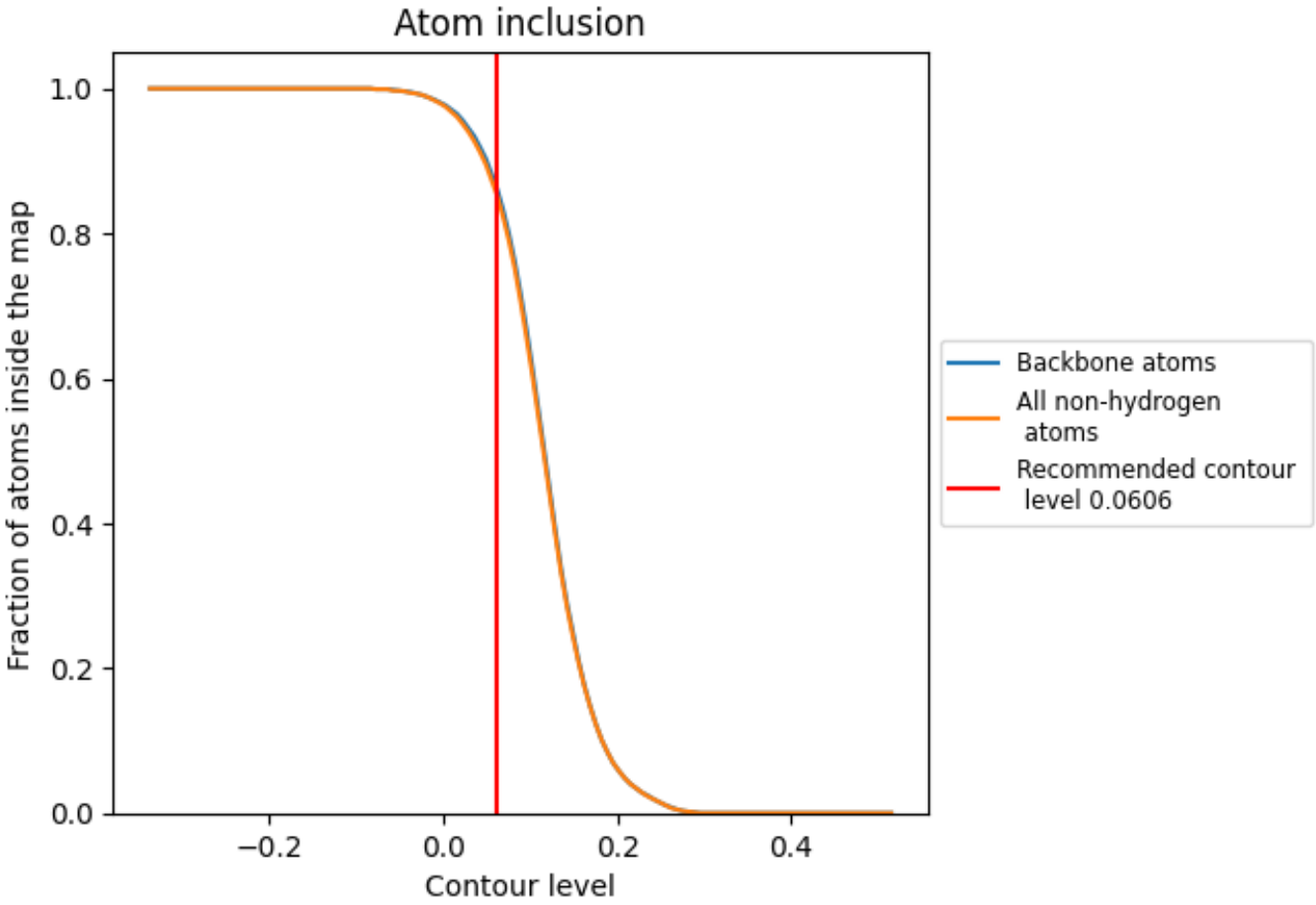
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0606).

9.4 Atom inclusion (i)



At the recommended contour level, 87% of all backbone atoms, 86% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0606) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8570	0.0390
A1	0.8770	0.0350
A2	0.8110	0.0310
A3	0.8040	0.0280
A4	0.8800	0.0400
B1	0.3760	-0.0070
B2	0.9820	-0.0050
B3	0.9450	0.0040
B4	0.5140	0.0150
C1	0.4340	0.0240
C2	0.1250	-0.0020
C3	0.0070	-0.0530
C4	1.0000	0.0600
D1	0.7620	0.0380
D2	0.8530	0.0480
D3	0.8240	0.0290
D4	0.6820	0.0380
E1	0.0660	-0.0330
E2	0.4710	-0.0120
E3	0.5510	0.0210
E4	0.6760	0.0440
F1	0.9810	0.0410
F2	0.9660	0.0410
G1	0.9810	0.0230
G2	0.9980	0.0280
H1	1.0000	0.0400
H2	1.0000	0.0300
I1	0.9380	0.0370
I2	0.8960	0.0340
J1	0.8540	0.0140
J2	0.6290	0.0080
K1	1.0000	0.0010
K2	1.0000	0.0450
L1	1.0000	0.0910
L2	1.0000	0.0070

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Chain	Atom inclusion	Q-score
M1	0.9890	0.0540
M2	0.8830	0.0570
M3	0.9800	0.0540
M4	0.8450	0.0490
N1	0.9230	0.0390
N2	0.8140	0.0360
N3	0.9760	0.0390
N4	0.8540	0.0530
O1	0.8950	0.0320
O2	0.7750	0.0340
O3	0.9310	0.0500
O4	0.7290	0.0400
P1	1.0000	0.0570
P2	1.0000	0.0950
P3	1.0000	-0.0310
P4	1.0000	0.1040
Q1	0.5910	0.0440
Q2	0.8520	0.0390
R1	0.8410	0.0590
R2	0.9020	0.0550
S1	0.9380	0.0560
S2	0.8860	0.0500
T1	0.9510	0.0470
T2	0.9620	0.0390
U1	0.9780	0.0500
U2	0.9590	0.0270
V1	0.8810	0.0490
V2	0.9830	0.0340
W1	0.9350	0.0440
W2	0.7670	0.0310
X1	0.5260	0.0350
X2	0.8760	0.0490
Y1	0.6060	0.0240
Y2	0.8350	0.0290
Z1	0.8900	0.0340
Z2	0.8780	0.0330
a1	0.1180	-0.0260
a2	0.2920	0.0050
b1	0.8420	0.0560
b2	0.9120	0.0540