Full wwPDB EM Validation Report ⓘ

Mar 17, 2026 – 12:42 AM UTC

PDB ID	:	6Z7N / pdb_00006z7n
EMDB ID	:	EMD-11108
Title	:	The atomic structure of HAdV-F41 at pH 7.4
Authors	:	Carlson, L.-A.; Rafie, K.
Deposited on	:	2020-05-31
Resolution	:	3.77 Å(reported)
Based on initial model	:	5TX1

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

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

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

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

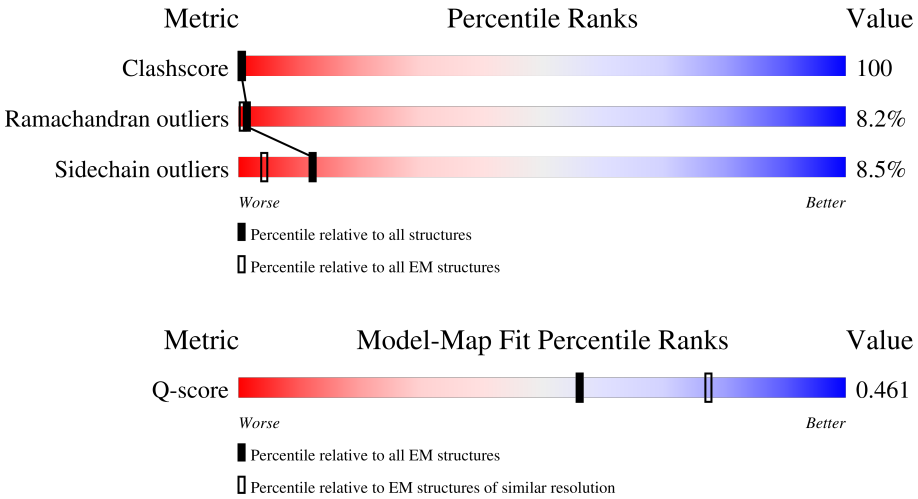
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.77 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10146 (3.27 - 4.27)

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	0	266	95%
1	1	266	94%
1	2	266	98%
1	3	266	95%

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Mol	Chain	Length	Quality of chain
1	4	266	93%
1	5	266	94%
1	6	266	99%
1	7	266	99%
1	8	266	90%
1	9	266	99%
2	A	925	25% 16% 55% 8% 7% 15%
2	B	925	31% 12% 42% 24% 14% 8%
2	C	925	29% 11% 42% 23% 17% 7%
2	D	925	25% 16% 62% 11% 8%
2	E	925	25% 17% 63% 7% 7% 5%
2	F	925	20% 14% 59% 13% 10%
2	G	925	19% 17% 54% 15% 9% 5%
2	H	925	22% 18% 63% 10% 7%
2	I	925	22% 25% 66%
2	J	925	25% 17% 59% 14% 8%
2	K	925	22% 22% 61% 5% 9%
2	L	925	22% 22% 62% 8%
3	M	508	64% 37% 49% 10%
4	N	348	93%
5	O	579	15% 14% 25% 54%
6	P	133	17% 14% 25% 56%
6	Q	133	14% 10% 23% 62%
6	R	133	6% 12% 77%
6	S	133	13% 14% 19% 8% 56%

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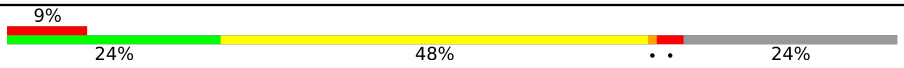
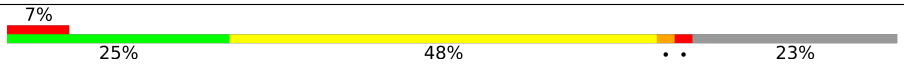
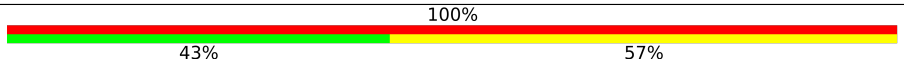
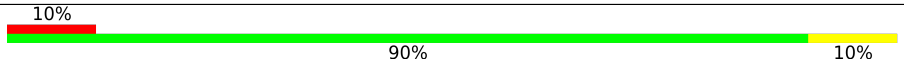
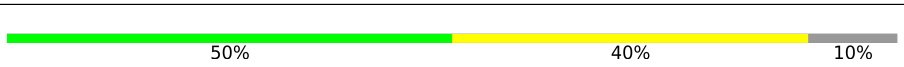
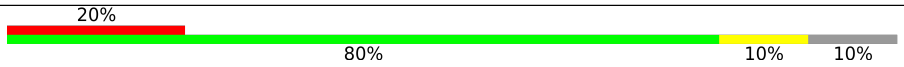
Mol	Chain	Length	Quality of chain
7	T	233	
7	U	233	
8	X	7	
9	V	10	
9	W	10	
9	Z	10	
10	Y	6	

2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 94362 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 Pre-protein VI.

Mol	Chain	Residues	Atoms	AltConf	Trace
1	0	12	Total C N O S 94 59 20 14 1	0	0
1	1	16	Total C N O S 124 79 25 19 1	0	0
1	2	6	Total C N O S 48 31 9 7 1	0	0
1	3	12	Total C N O S 98 63 17 17 1	0	0
1	4	19	Total C N O S 147 91 29 26 1	0	0
1	5	16	Total C N O S 123 76 22 24 1	0	0
1	6	3	Total C N O 28 17 8 3	0	0
1	7	3	Total C N O 28 17 8 3	0	0
1	8	26	Total C N O S 197 122 38 36 1	0	0
1	9	3	Total C N O 28 17 8 3	0	0

- Molecule 2 is a protein called Hexon protein.

Mol	Chain	Residues	Atoms	AltConf	Trace
2	A	788	Total C N O S 6307 4029 1063 1180 35	0	0
2	B	847	Total C N O S 6761 4305 1146 1277 33	0	0
2	C	860	Total C N O S 6862 4368 1163 1296 35	0	0
2	D	887	Total C N O S 7057 4493 1194 1335 35	0	0
2	E	878	Total C N O S 6988 4451 1180 1321 36	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	F	889	Total	C	N	O	S	0	0
			7070	4499	1196	1339	36		
2	G	880	Total	C	N	O	S	0	0
			7008	4462	1183	1328	35		
2	H	894	Total	C	N	O	S	0	0
			7095	4513	1202	1344	36		
2	I	908	Total	C	N	O	S	0	0
			7212	4584	1222	1370	36		
2	J	907	Total	C	N	O	S	0	0
			7203	4577	1219	1371	36		
2	K	840	Total	C	N	O	S	0	0
			6702	4271	1130	1265	36		
2	L	855	Total	C	N	O	S	0	0
			6831	4358	1155	1283	35		

- Molecule 3 is a protein called Penton protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	M	458	Total	C	N	O	S	0	0
			3659	2322	630	696	11		

- Molecule 4 is a protein called Core-capsid bridging protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	N	24	Total	C	N	O	S	0	0
			198	124	34	37	3		

- Molecule 5 is a protein called Pre-hexon-linking protein IIIa.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	O	267	Total	C	N	O	S	0	0
			2088	1309	371	404	4		

- Molecule 6 is a protein called Hexon-interlacing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	P	58	Total	C	N	O	S	0	0
			419	262	74	80	3		
6	Q	50	Total	C	N	O	S	0	0
			366	233	65	67	1		
6	R	30	Total	C	N	O	S	0	0
			228	147	41	39	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	S	58	Total	C	N	O	S	0	0
			419	262	74	80	3		

- Molecule 7 is a protein called Pre-hexon-linking protein VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	T	178	Total	C	N	O	S	0	0
			1368	859	234	270	5		
7	U	179	Total	C	N	O	S	0	0
			1372	861	235	271	5		

- Molecule 8 is a protein called Fiber protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	X	7	Total	C	N	O	0	0
			64	46	8	10		

- Molecule 9 is a protein called Unknown.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	W	9	Total	C	N	O	0	0
			45	27	9	9		
9	V	10	Total	C	N	O	0	0
			50	30	10	10		
9	Z	9	Total	C	N	O	0	0
			45	27	9	9		

- Molecule 10 is a protein called Unknown.

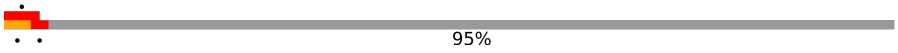
Mol	Chain	Residues	Atoms				AltConf	Trace
10	Y	6	Total	C	N	O	0	0
			30	18	6	6		

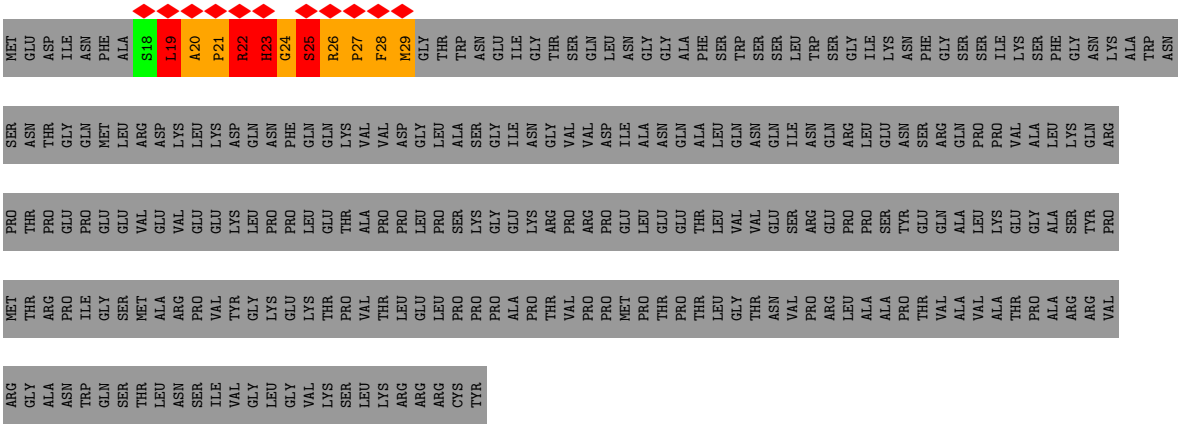
3 Residue-property plots (i)

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

• Molecule 1: Pre-protein VI

Chain 0:



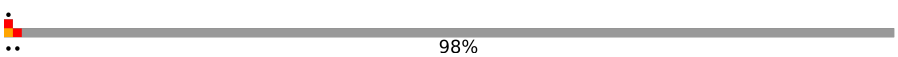


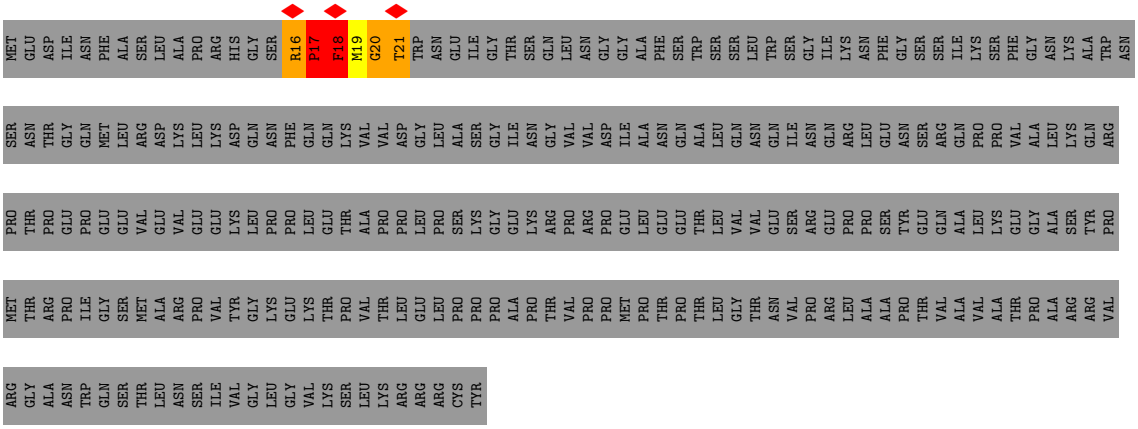
• Molecule 1: Pre-protein VI

Chain 1:

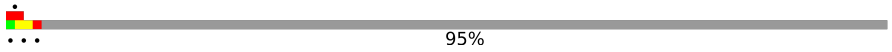
• Molecule 1: Pre-protein VI

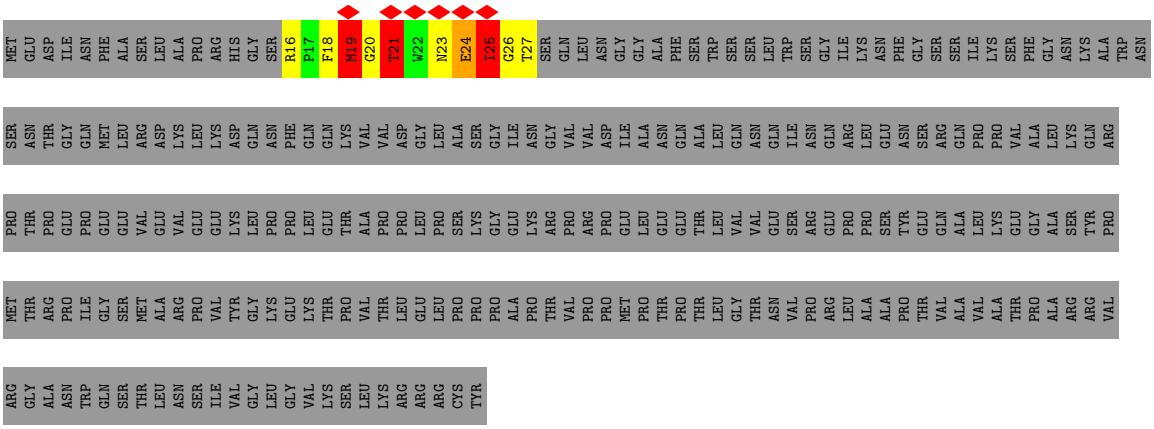
Chain 2:



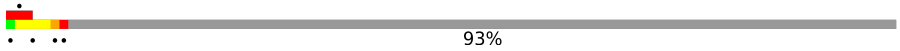


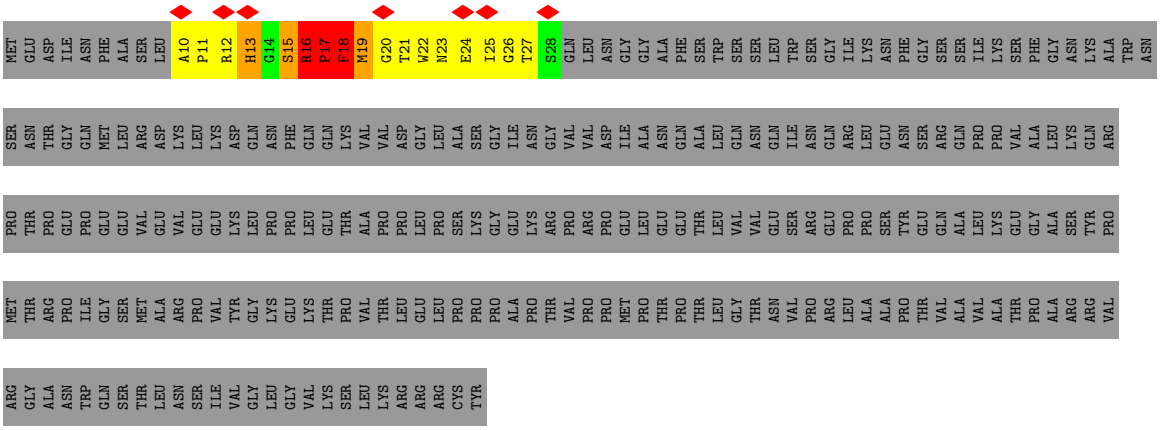
• Molecule 1: Pre-protein VI

Chain 3: 

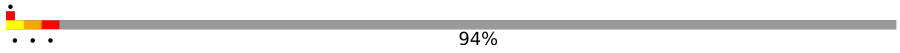


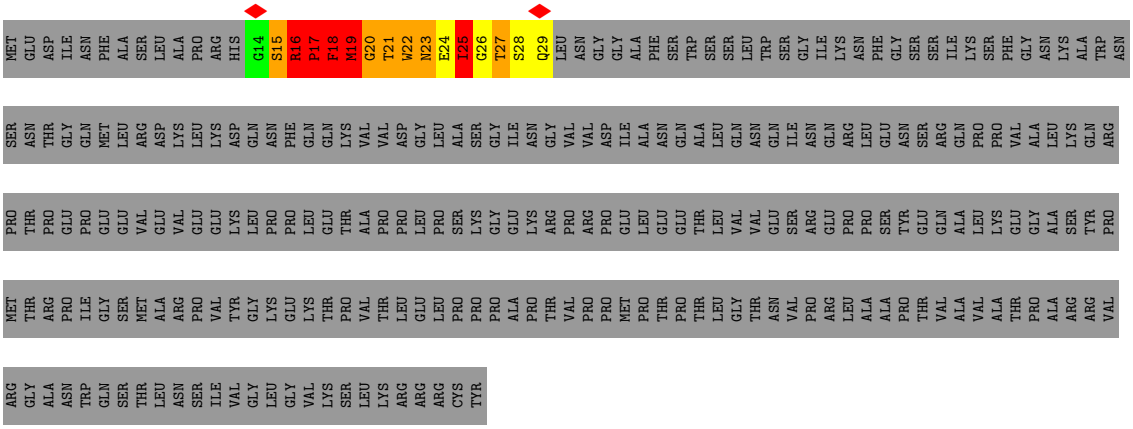
• Molecule 1: Pre-protein VI

Chain 4: 



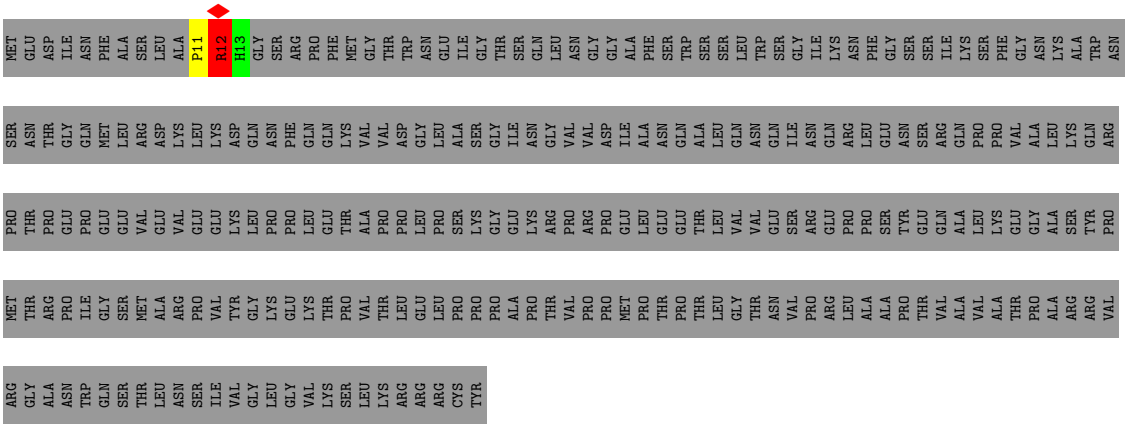
• Molecule 1: Pre-protein VI

Chain 5: 



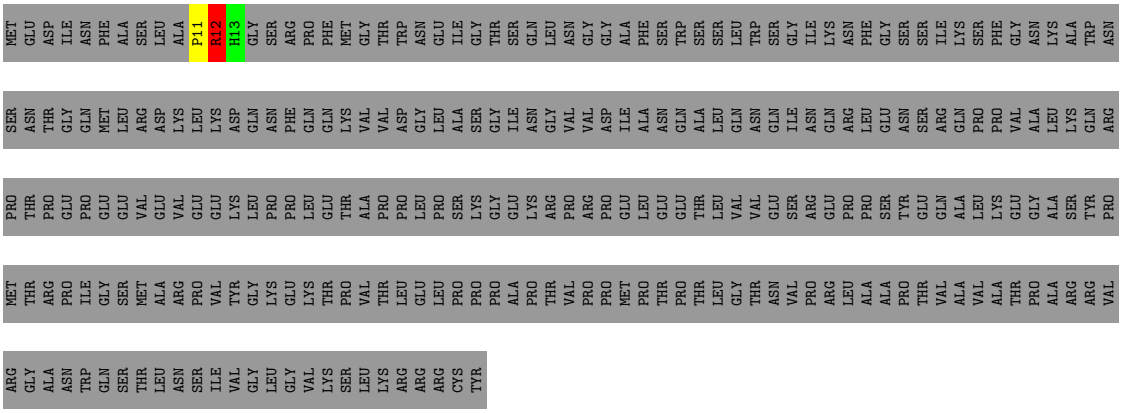
• Molecule 1: Pre-protein VI

Chain 6: 99%



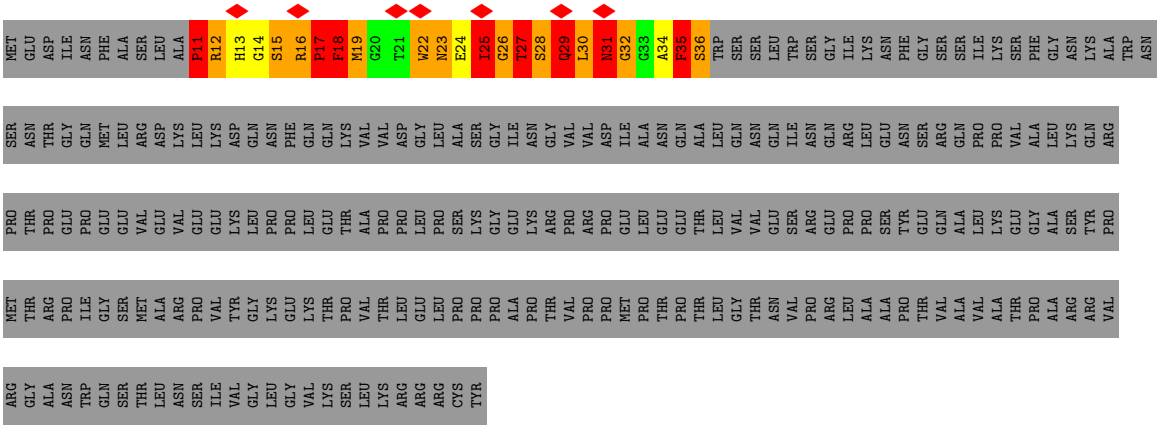
• Molecule 1: Pre-protein VI

Chain 7: 99%



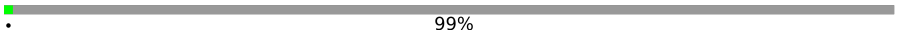
• Molecule 1: Pre-protein VI

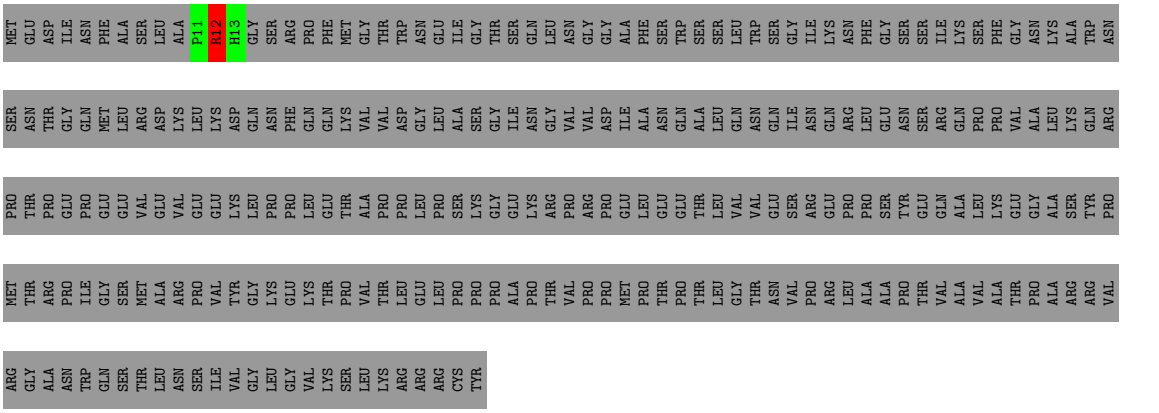
Chain 8: 90%



• Molecule 1: Pre-protein VI

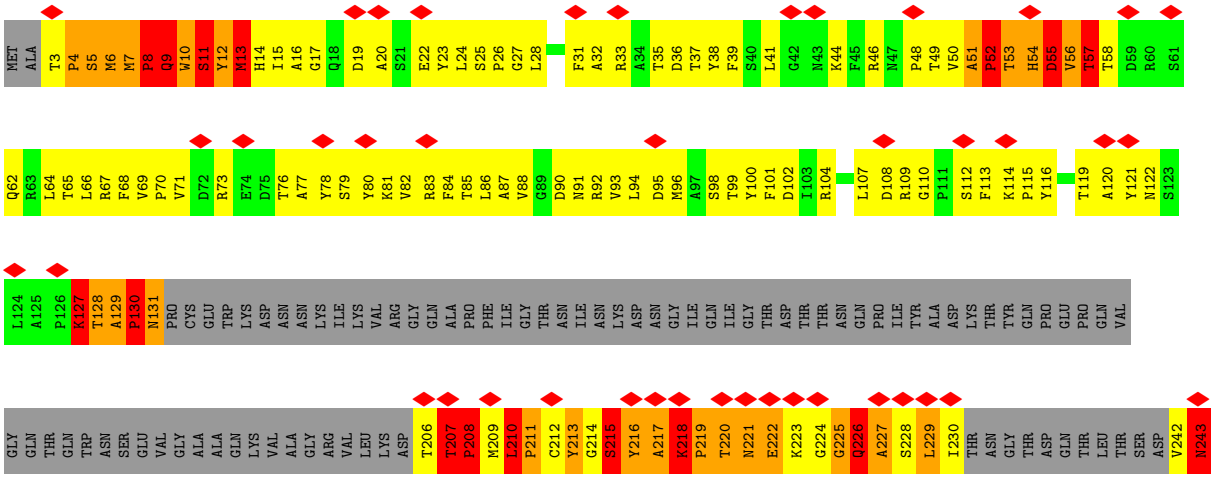
Chain 9:

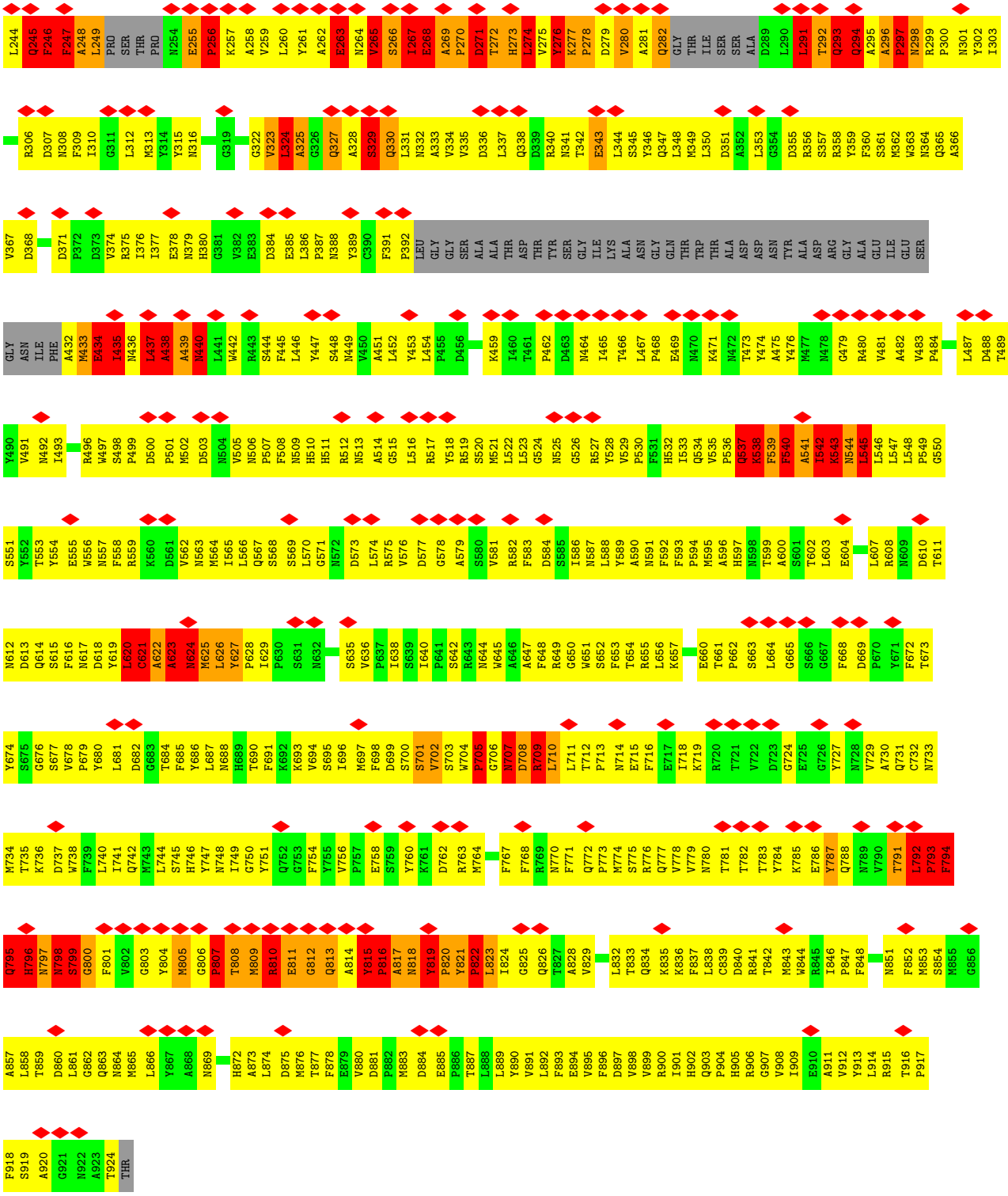




• Molecule 2: Hexon protein

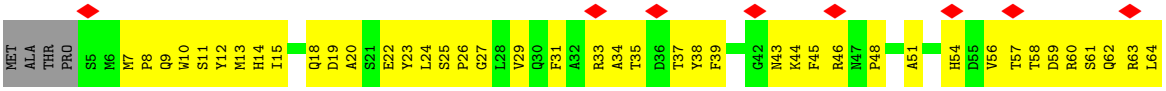
Chain A:

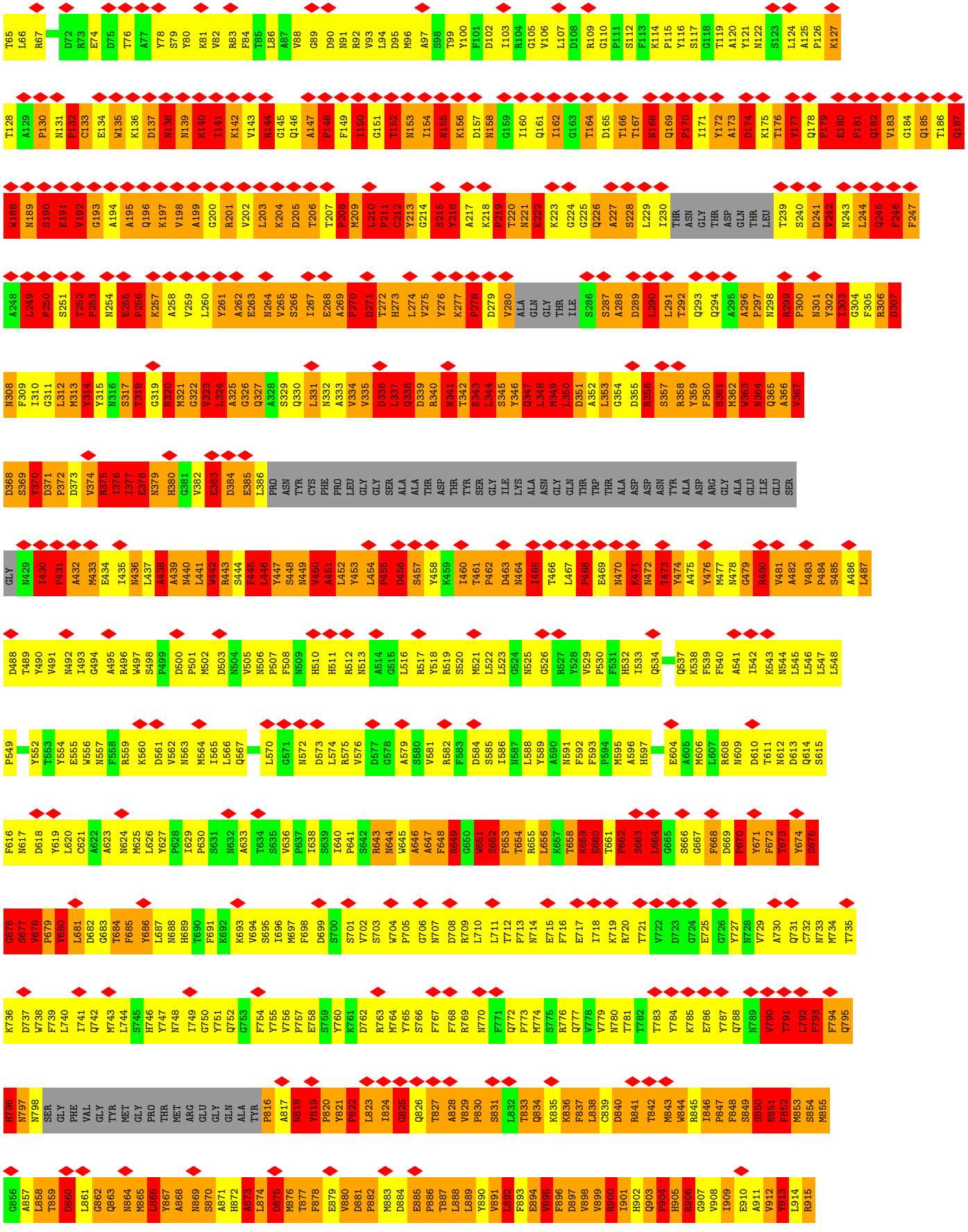


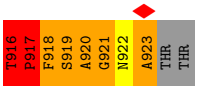


• Molecule 2: Hexon protein

Chain B:

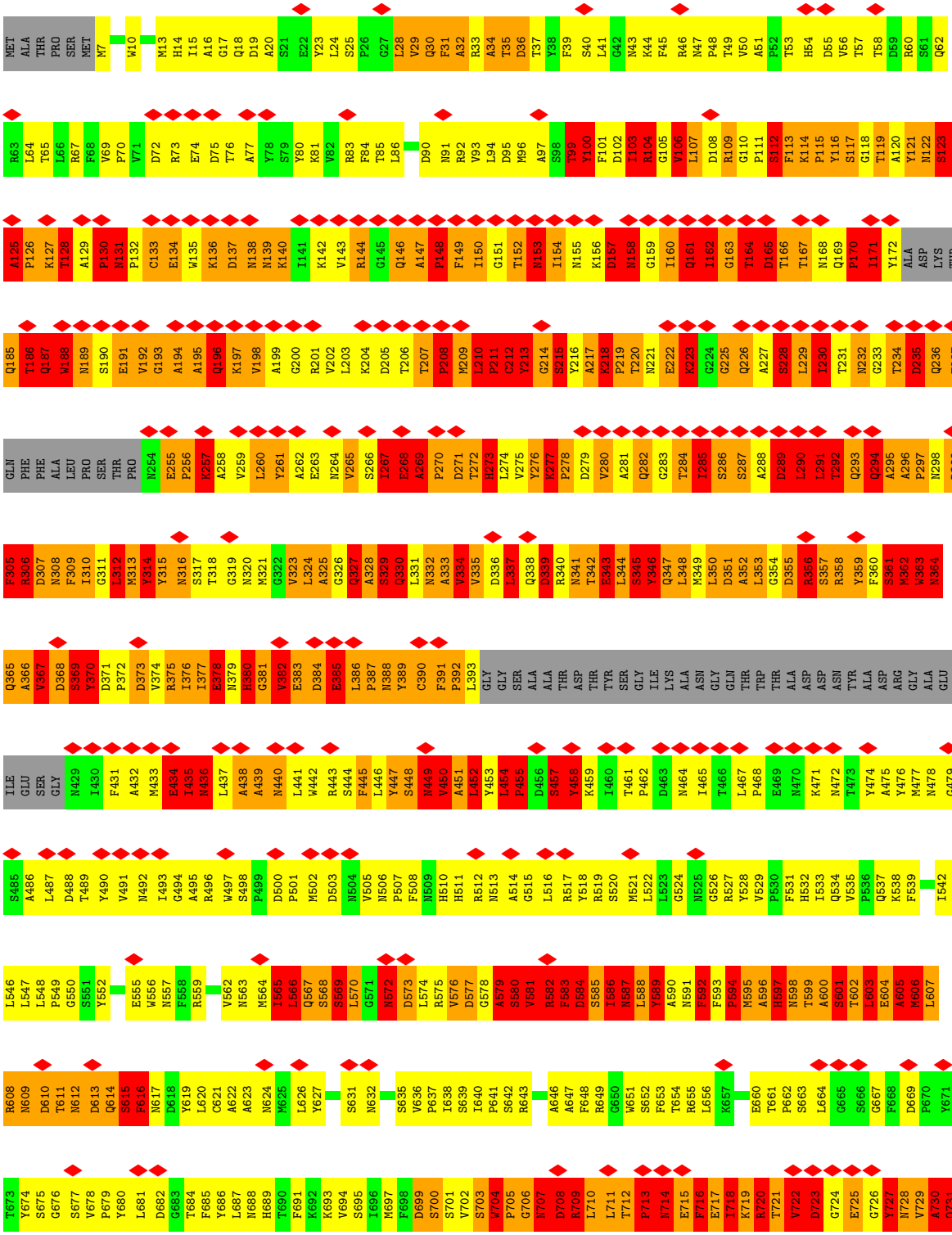


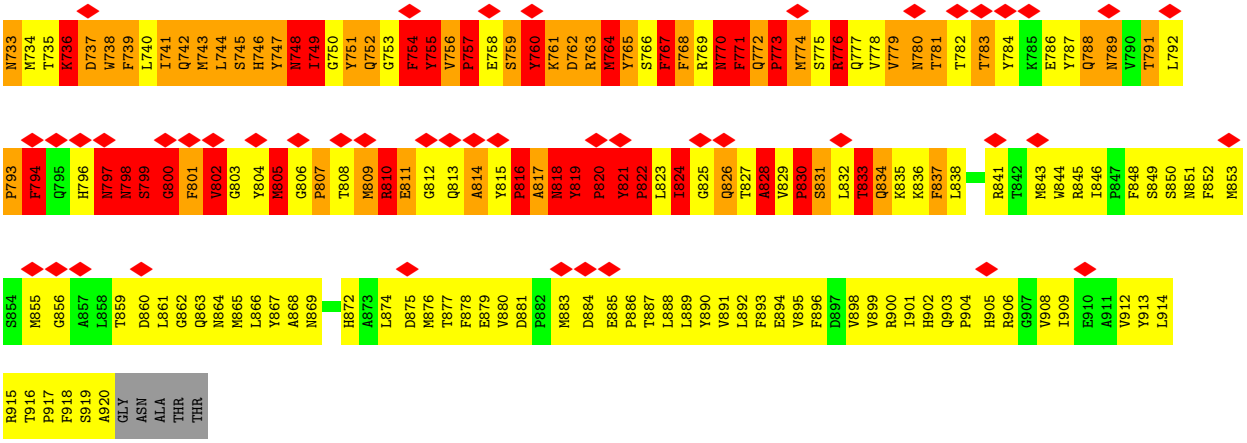


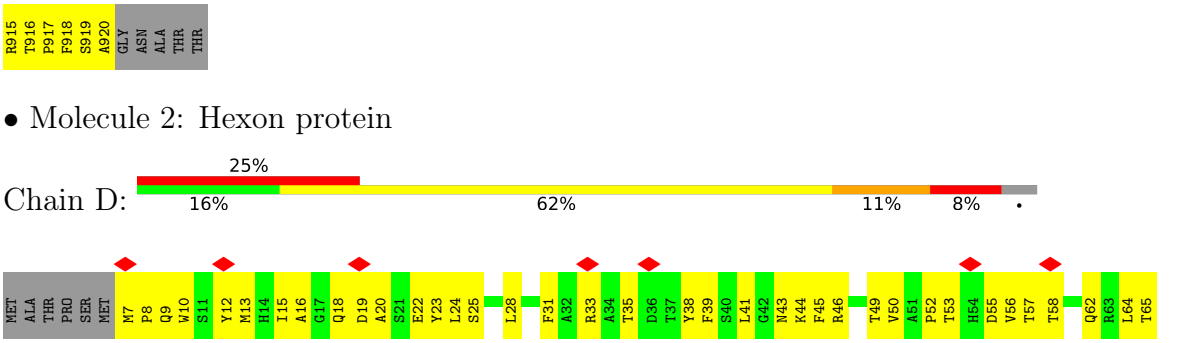


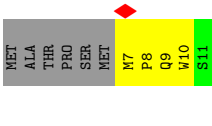
• Molecule 2: Hexon protein

Chain C:



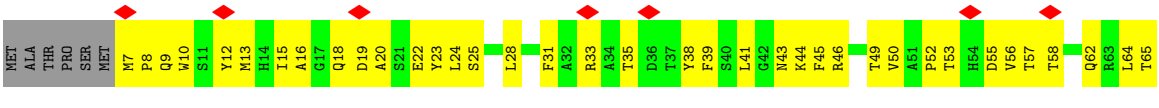


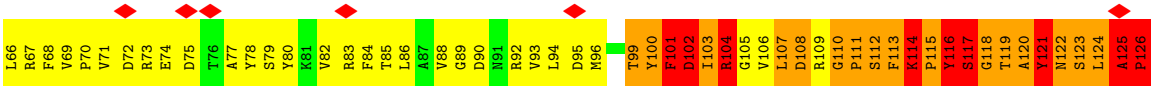


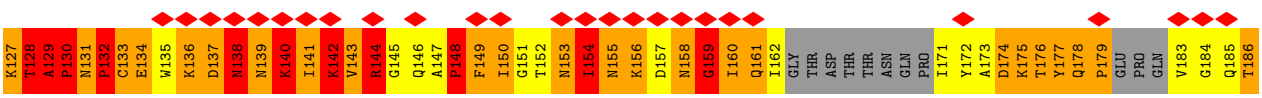


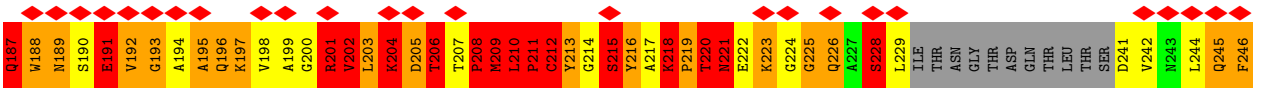
• Molecule 2: Hexon protein

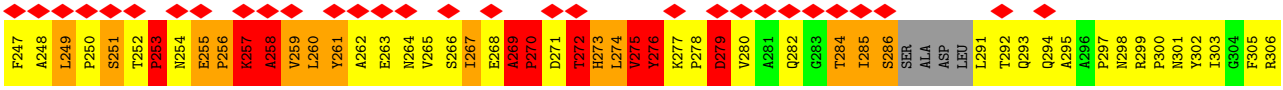
Chain D:

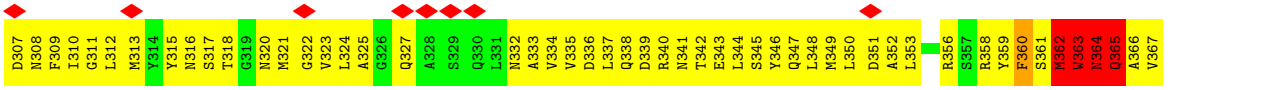


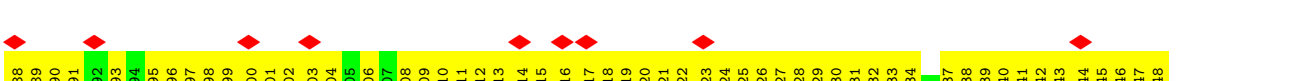


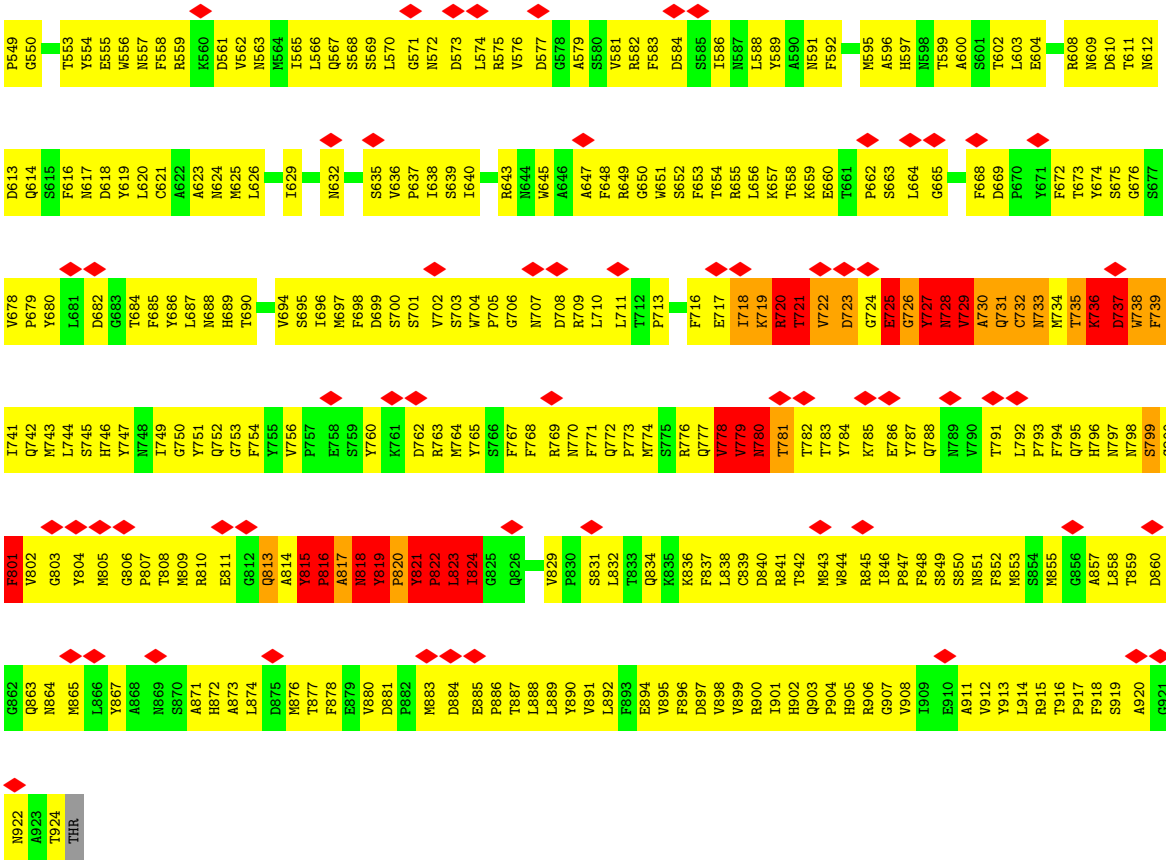






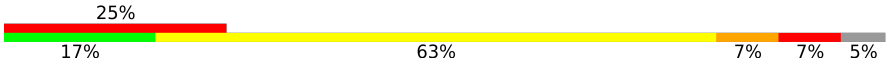


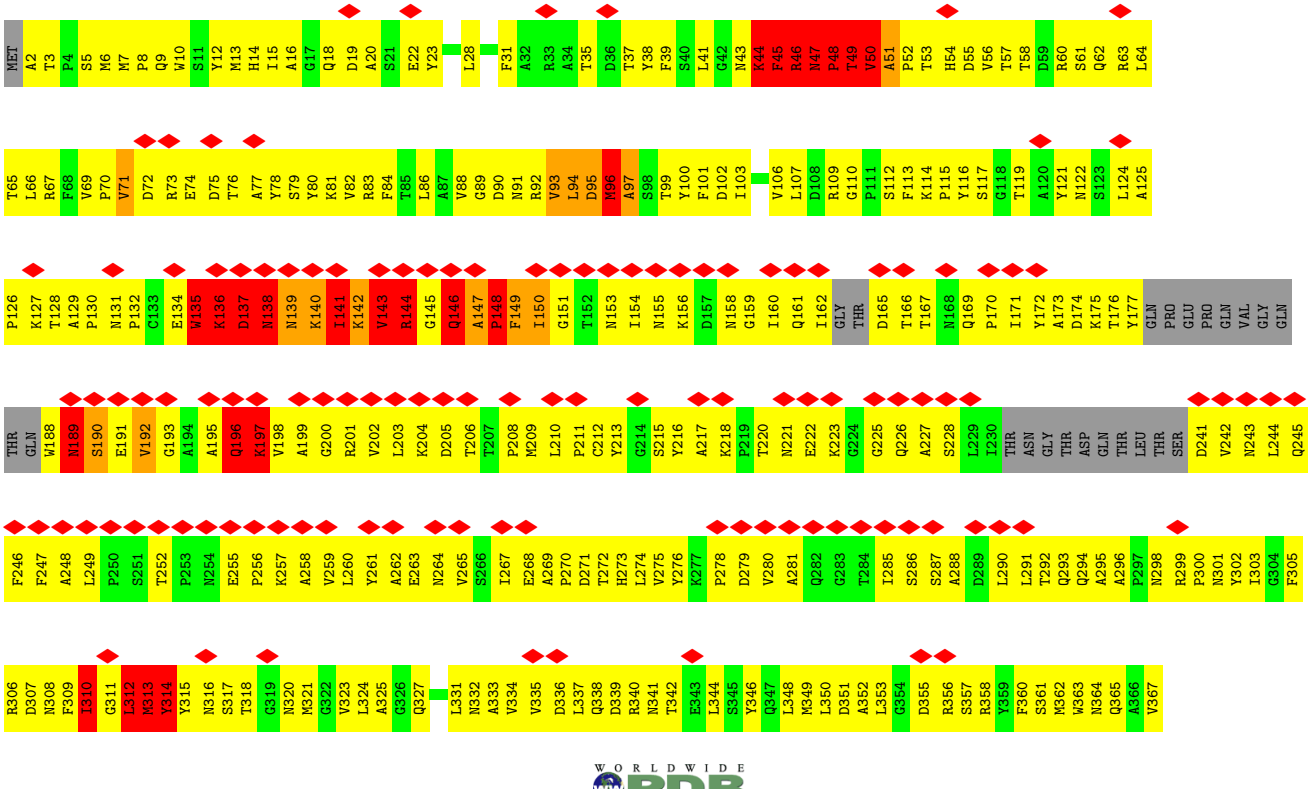


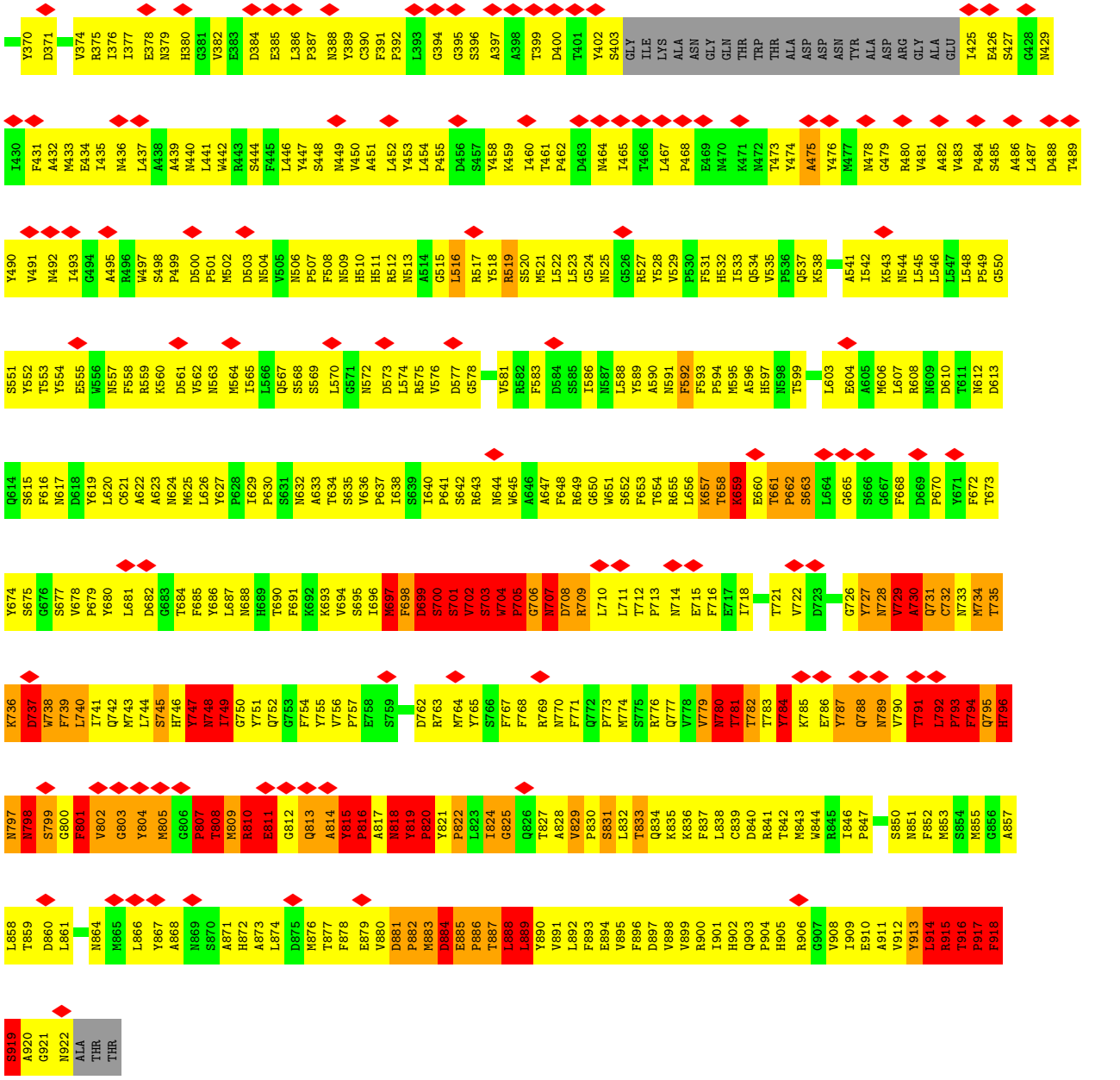


• Molecule 2: Hexon protein

Chain E:

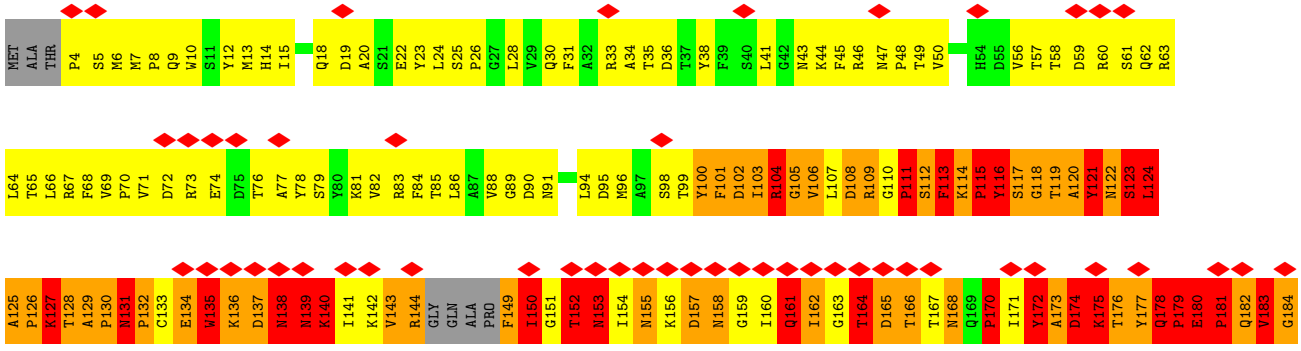


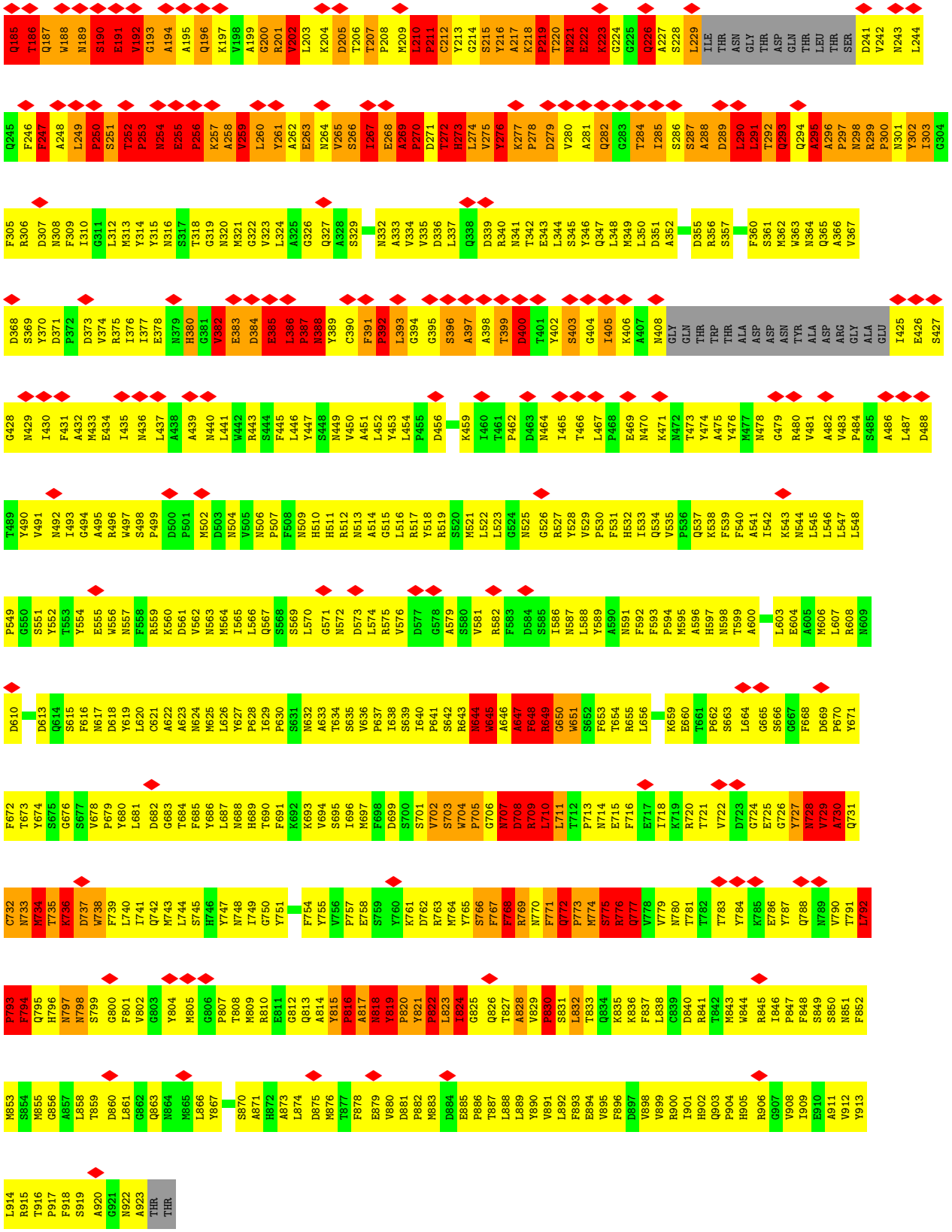




• Molecule 2: Hexon protein

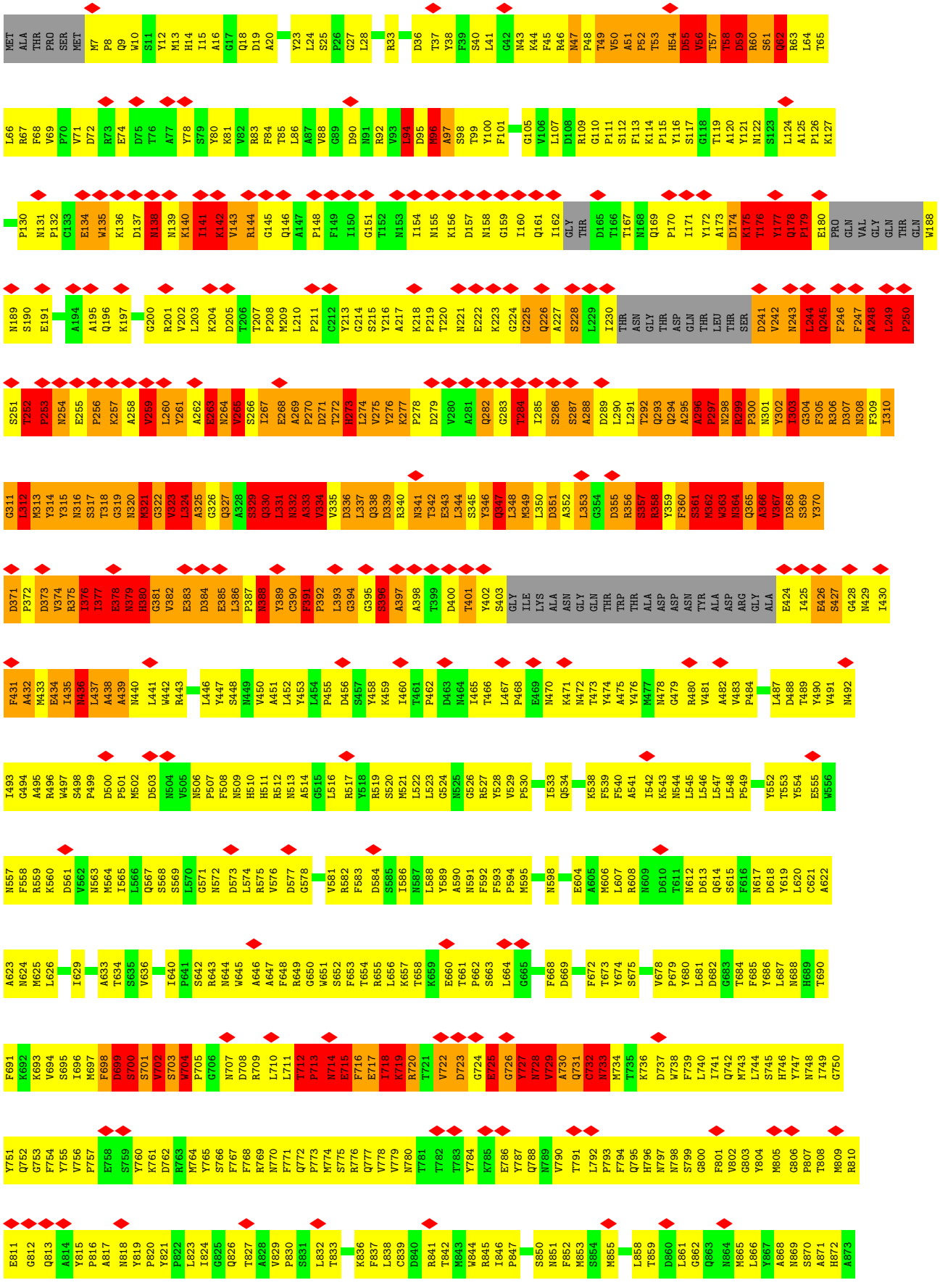
Chain F:

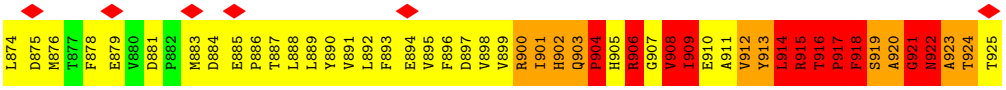




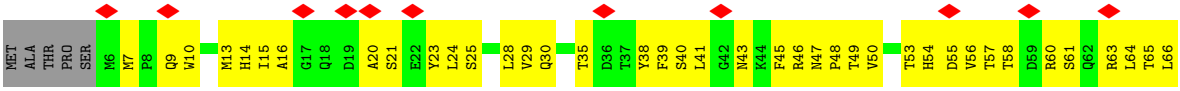
• Molecule 2: Hexon protein

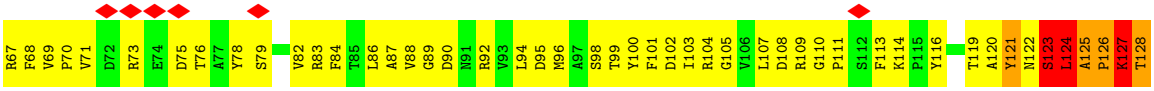
Chain G:

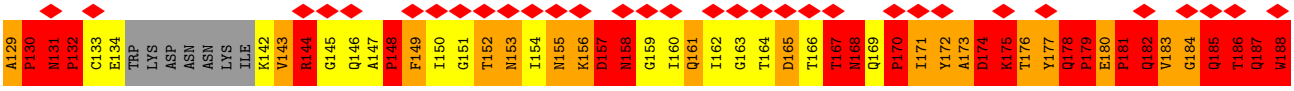


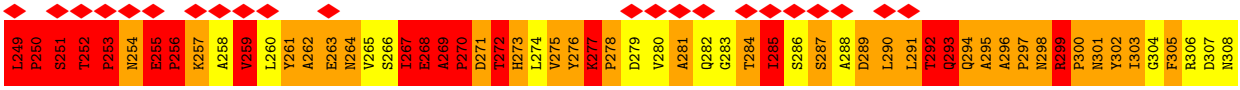


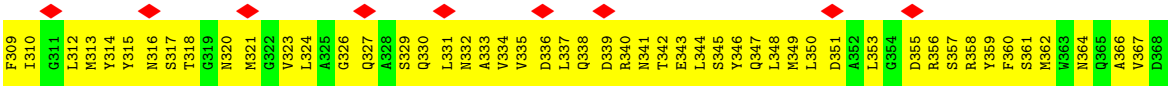
• Molecule 2: Hexon protein

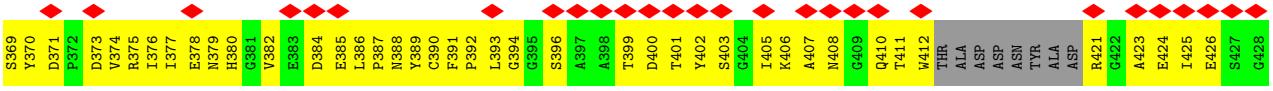


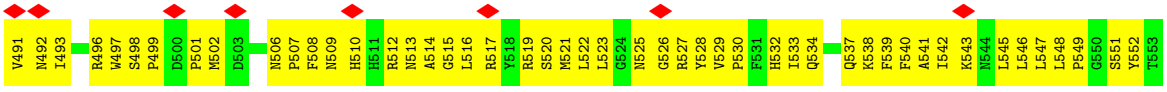


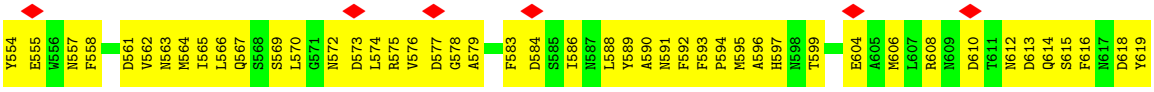


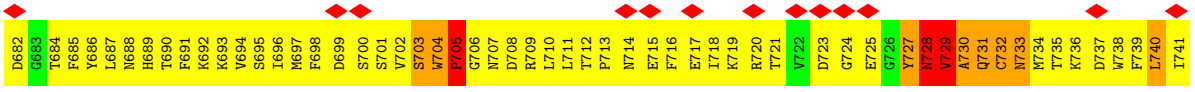


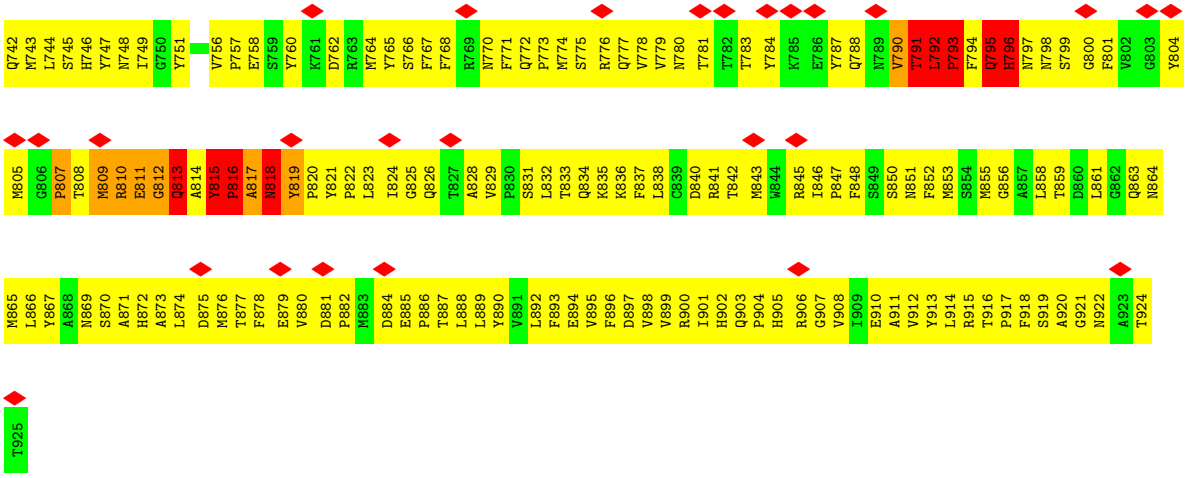






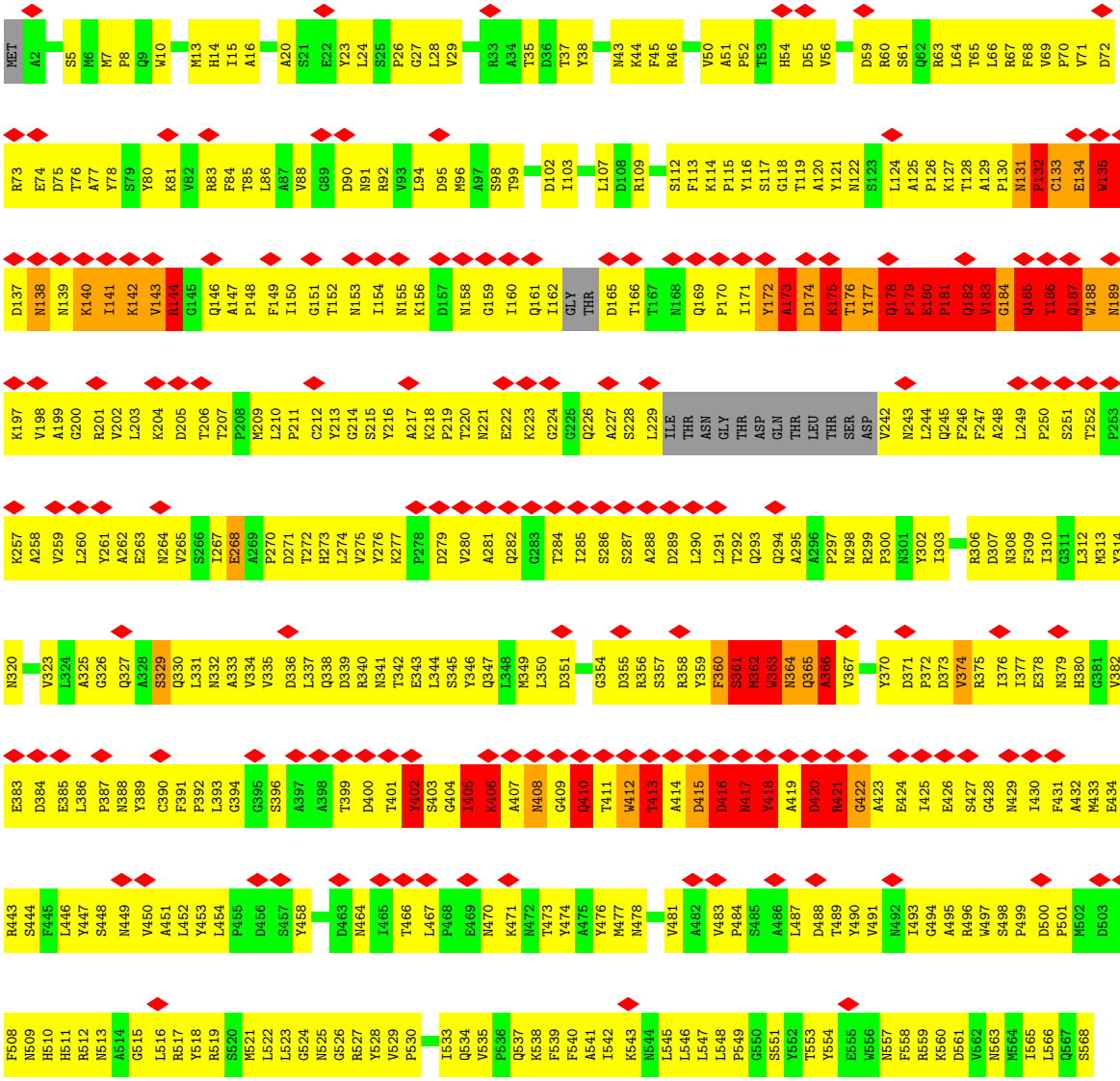


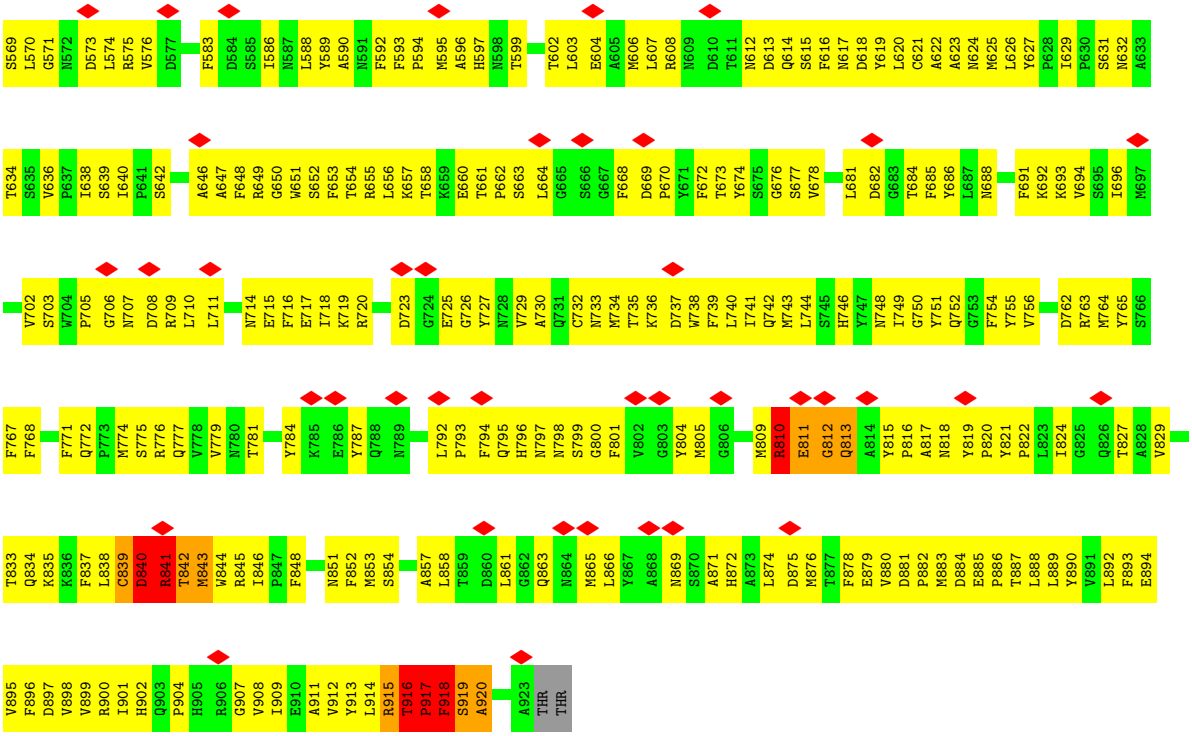




• Molecule 2: Hexon protein

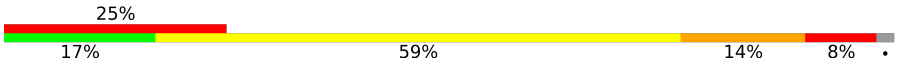
Chain I:

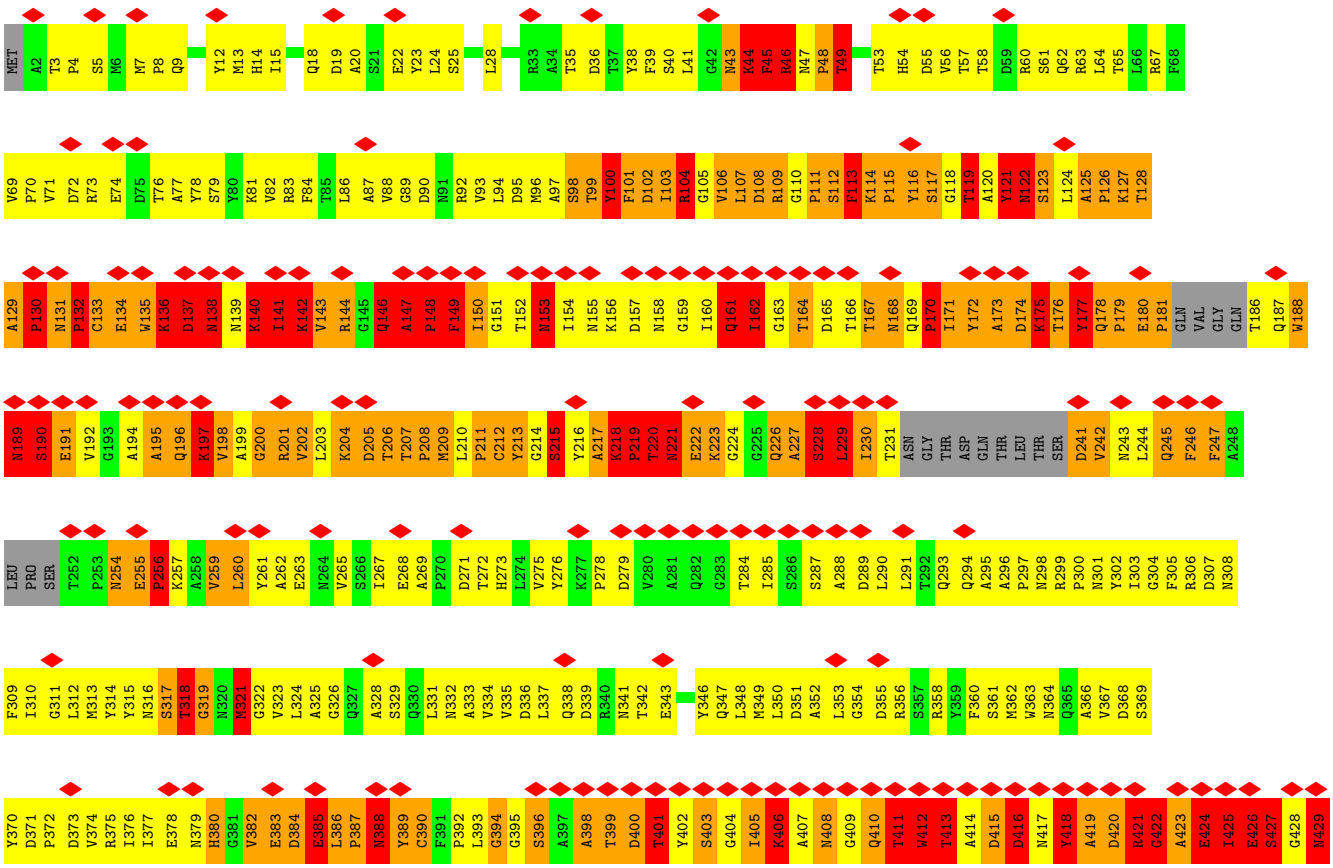


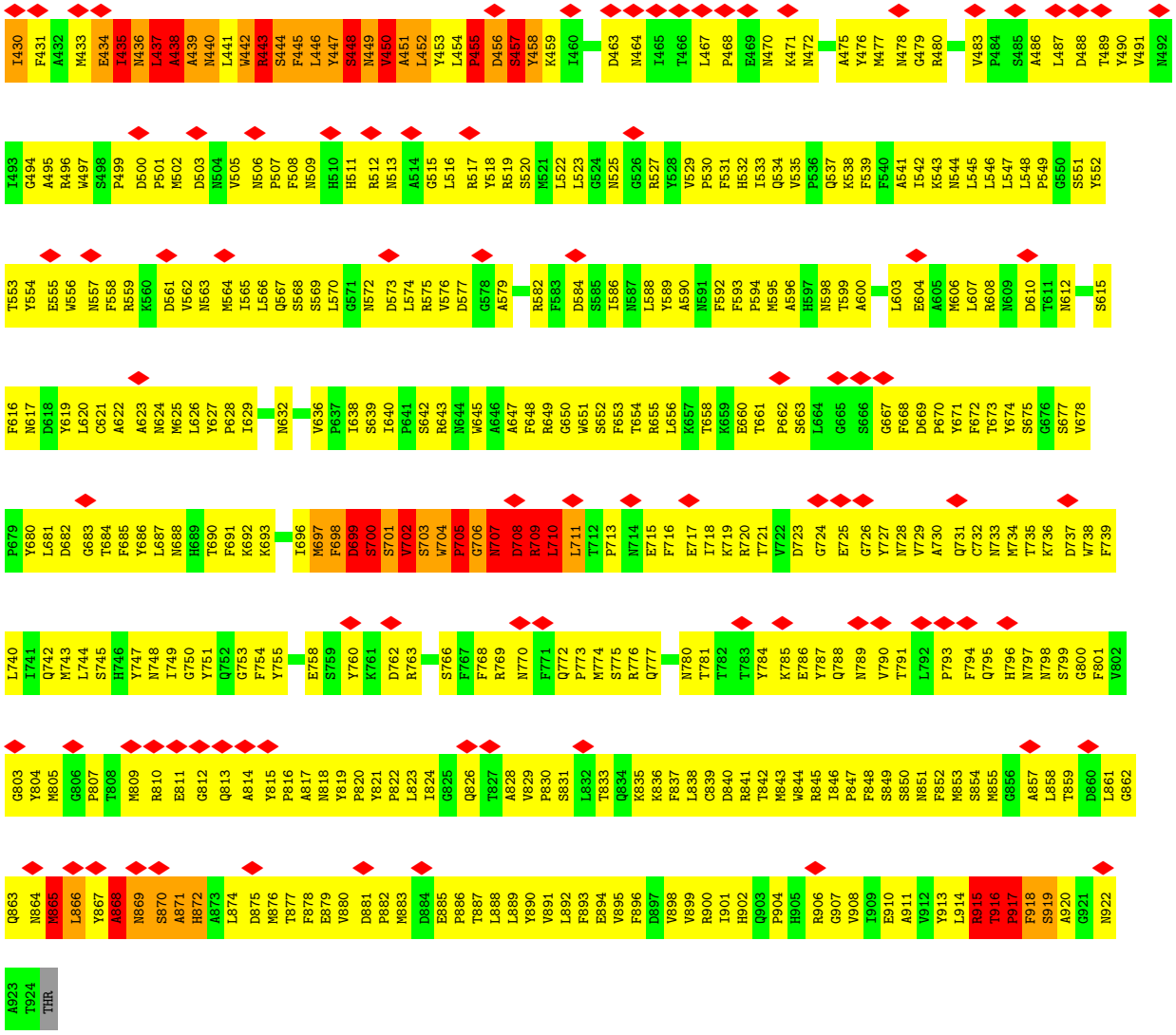


• Molecule 2: Hexon protein

Chain J:

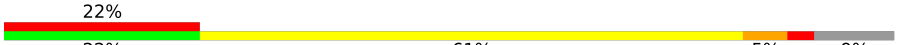


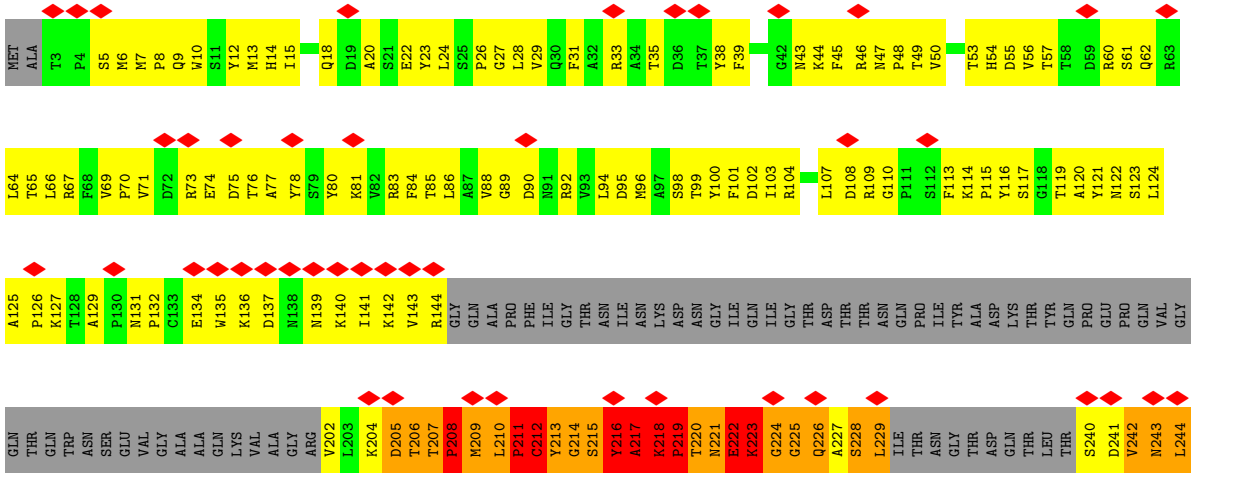


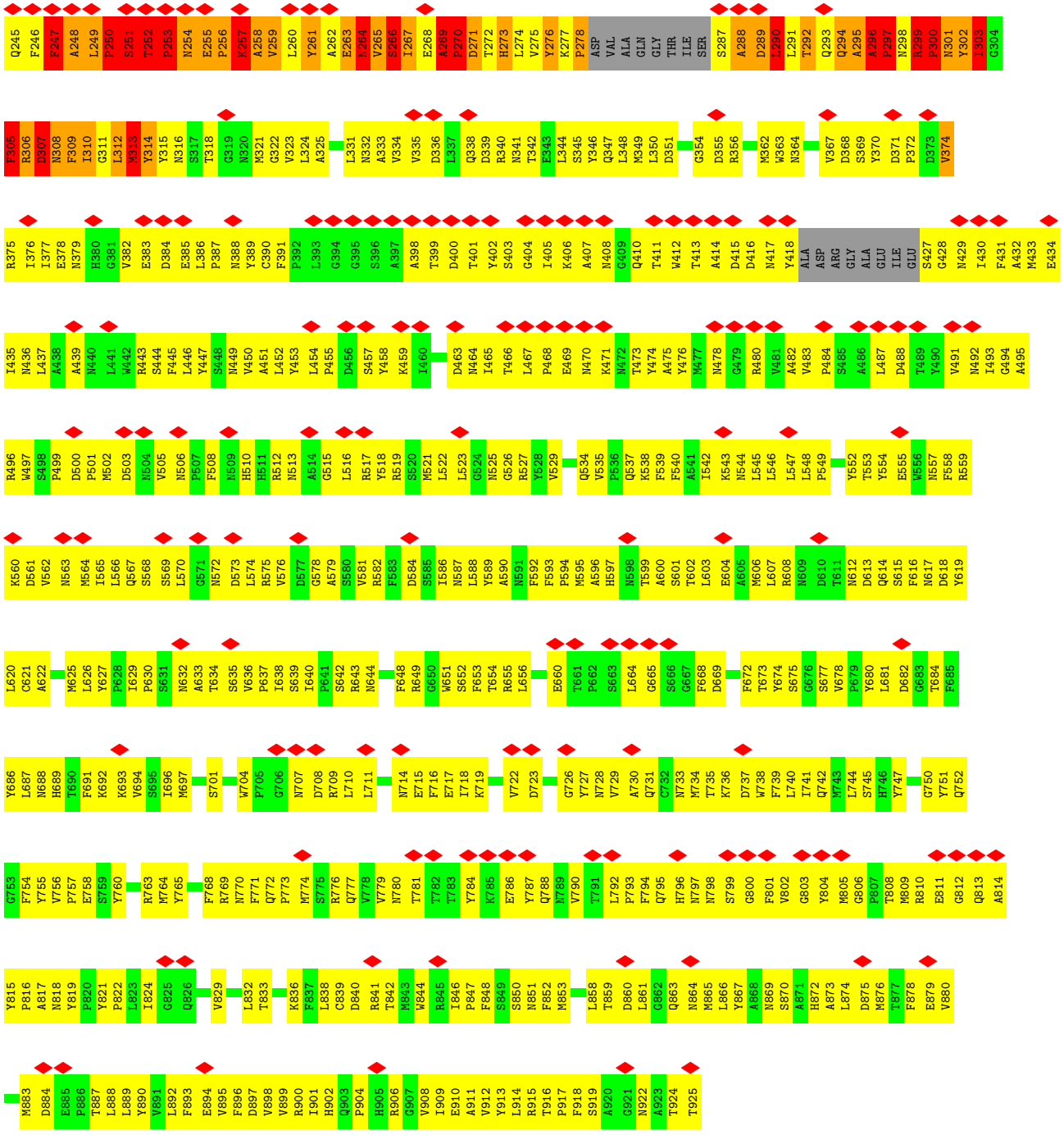


• Molecule 2: Hexon protein

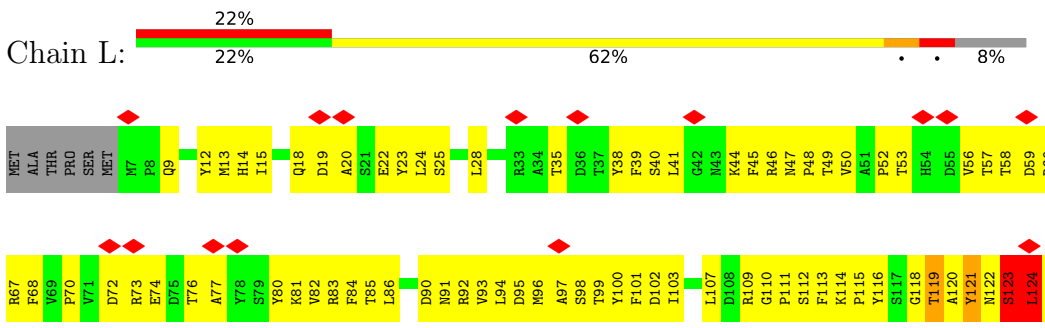
Chain K:

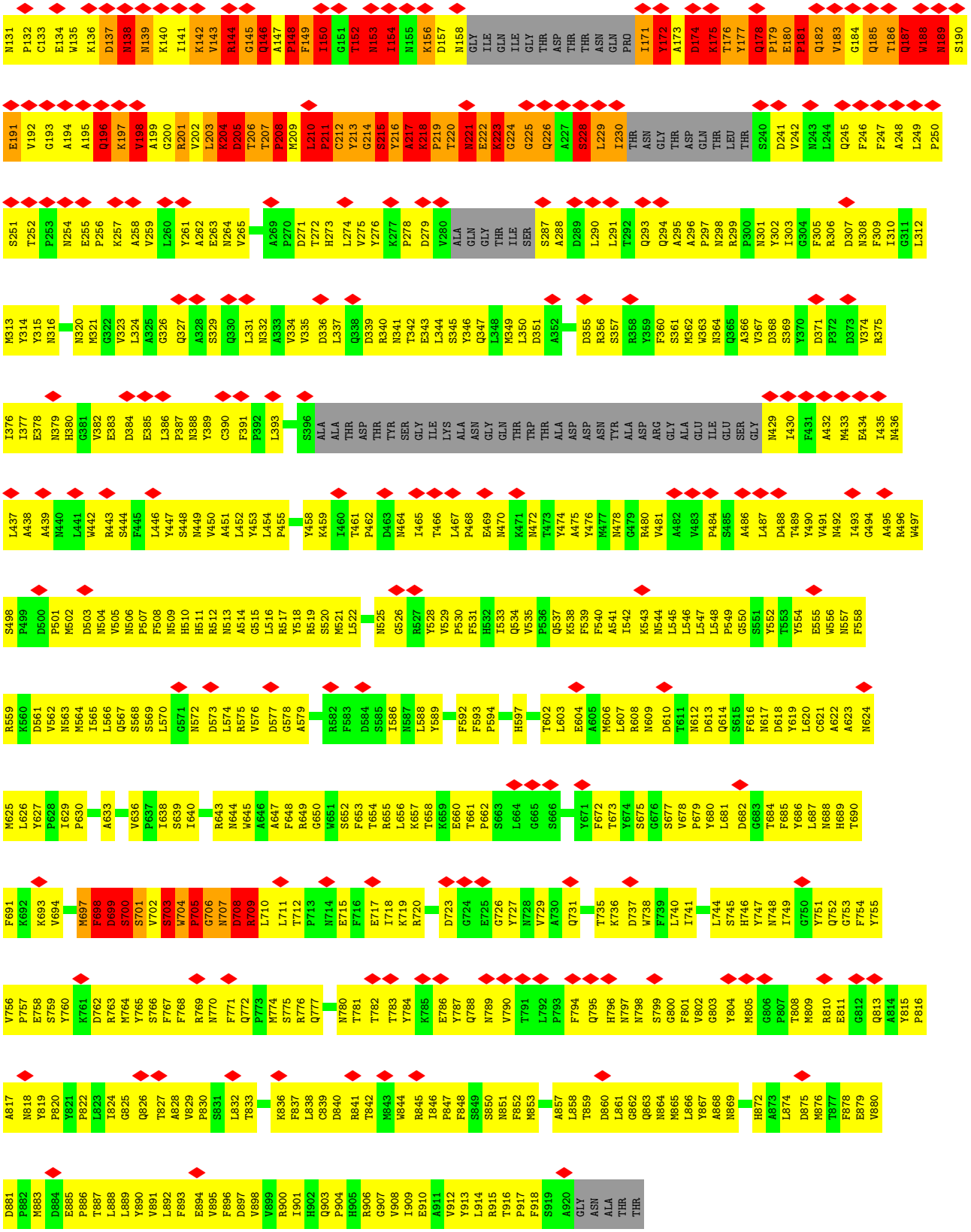




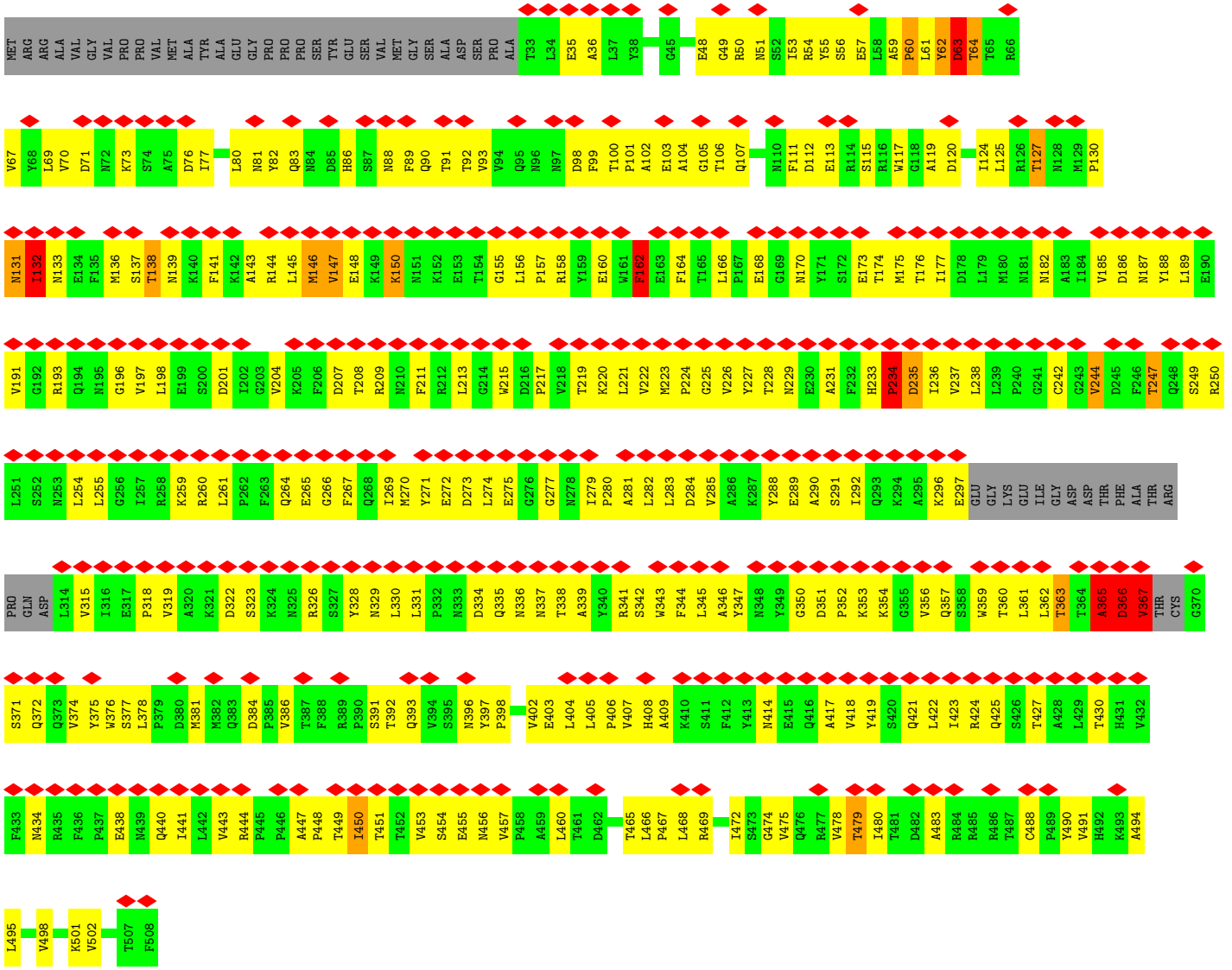


• Molecule 2: Hexon protein



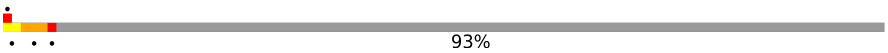


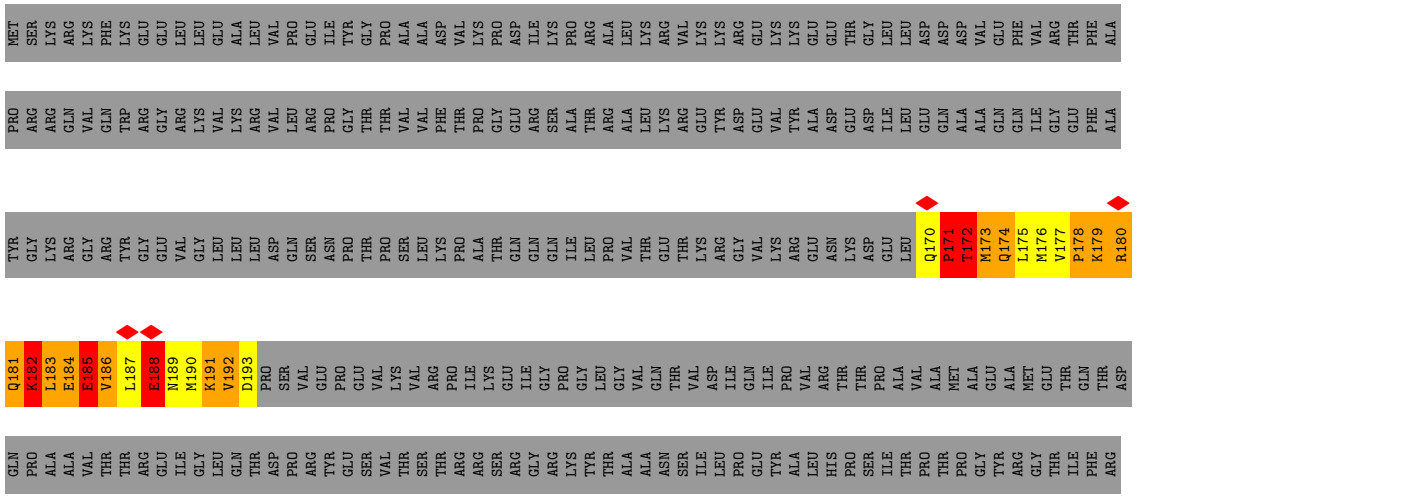
• Molecule 3: Penton protein



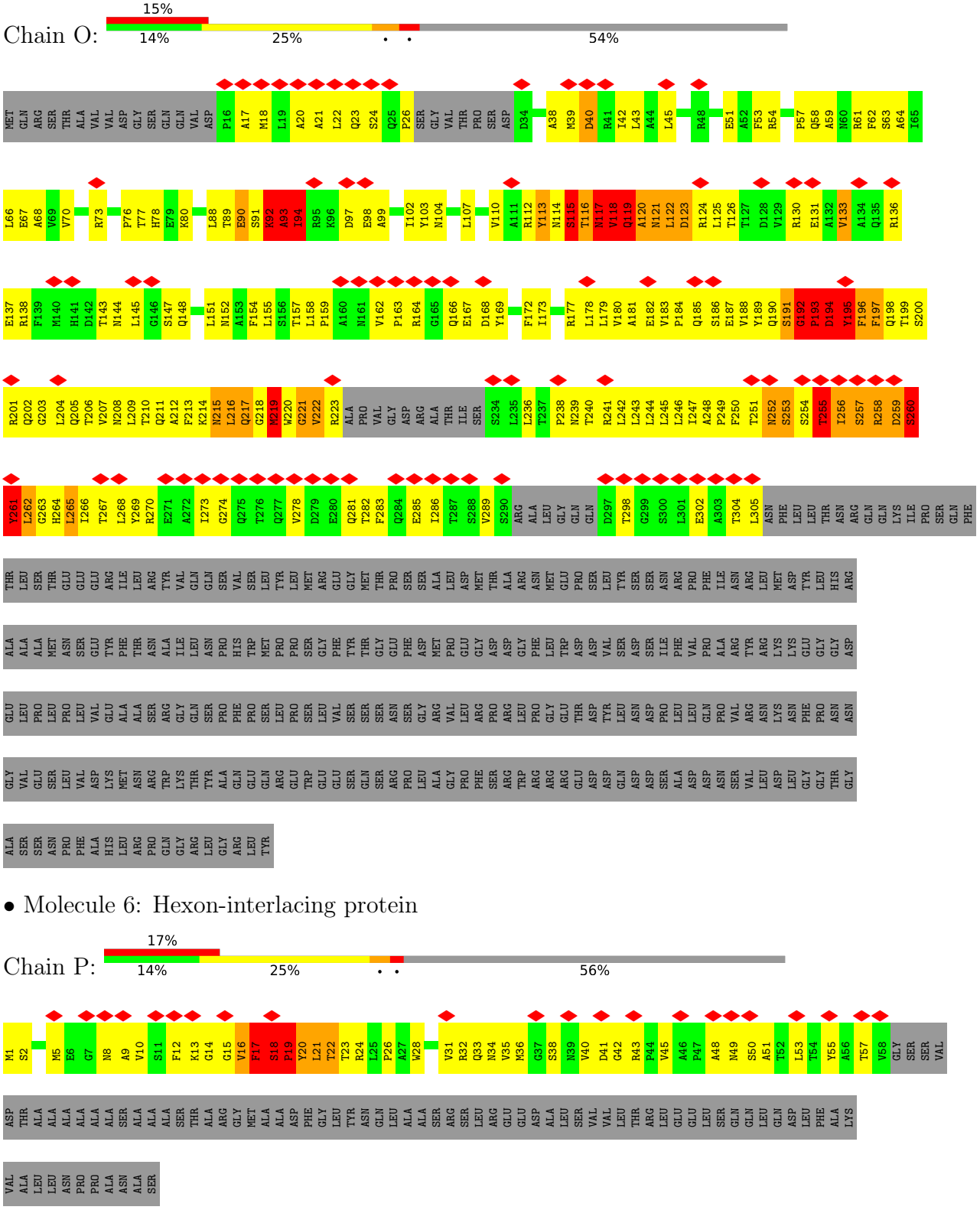
• Molecule 4: Core-capsid bridging protein

Chain N:





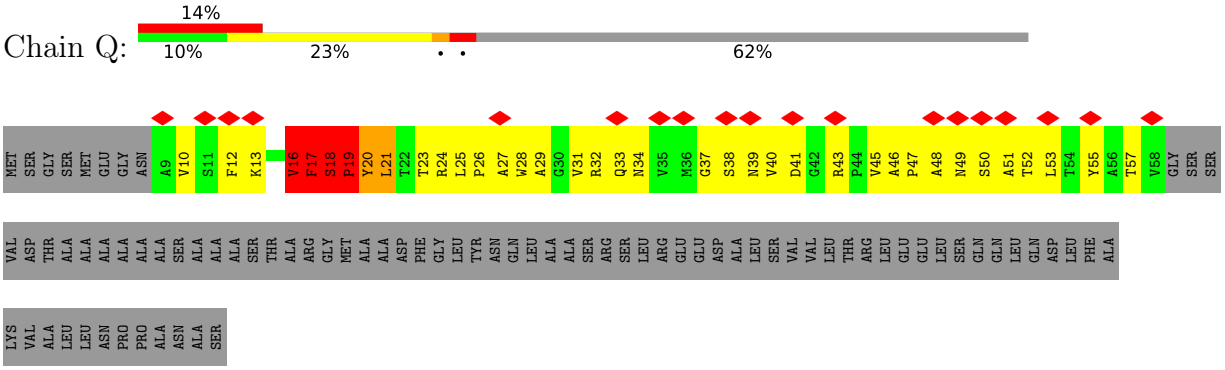
• Molecule 5: Pre-hexon-linking protein IIIa



• Molecule 6: Hexon-interlacing protein

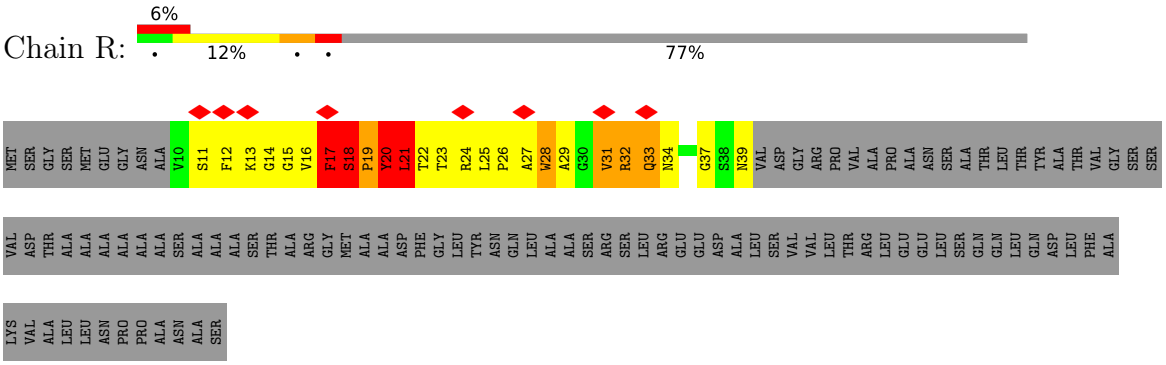
• Molecule 6: Hexon-interlacing protein

Chain Q:



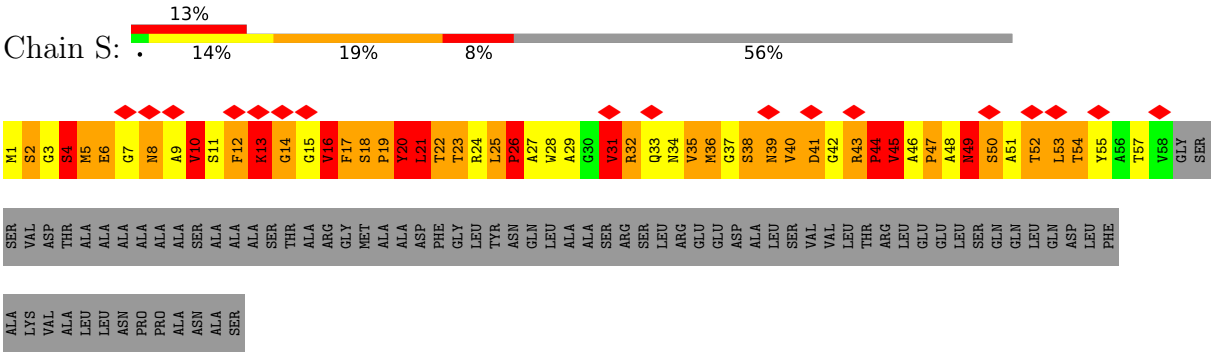
• Molecule 6: Hexon-interlacing protein

Chain R:



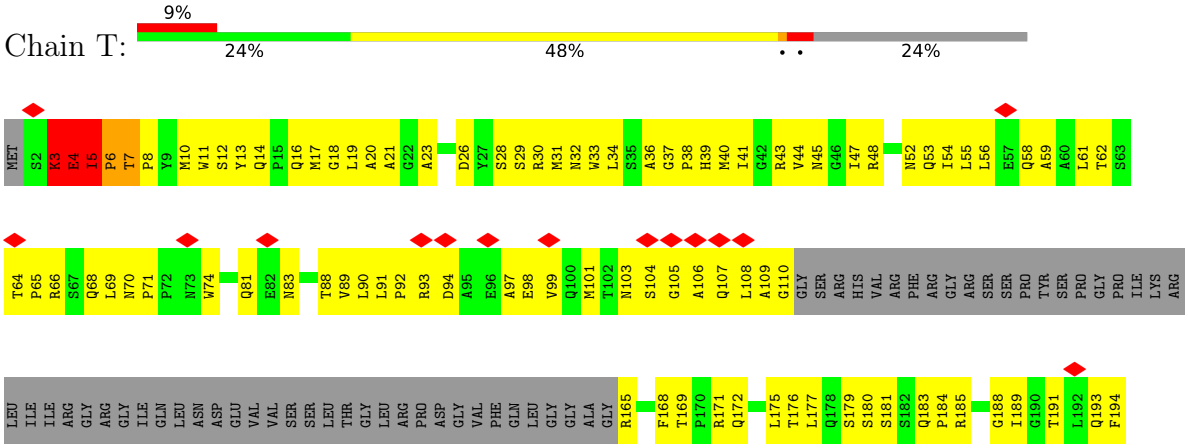
• Molecule 6: Hexon-interlacing protein

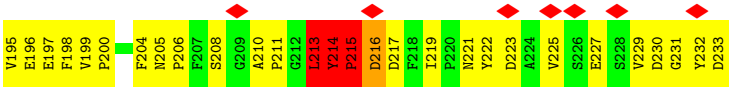
Chain S:



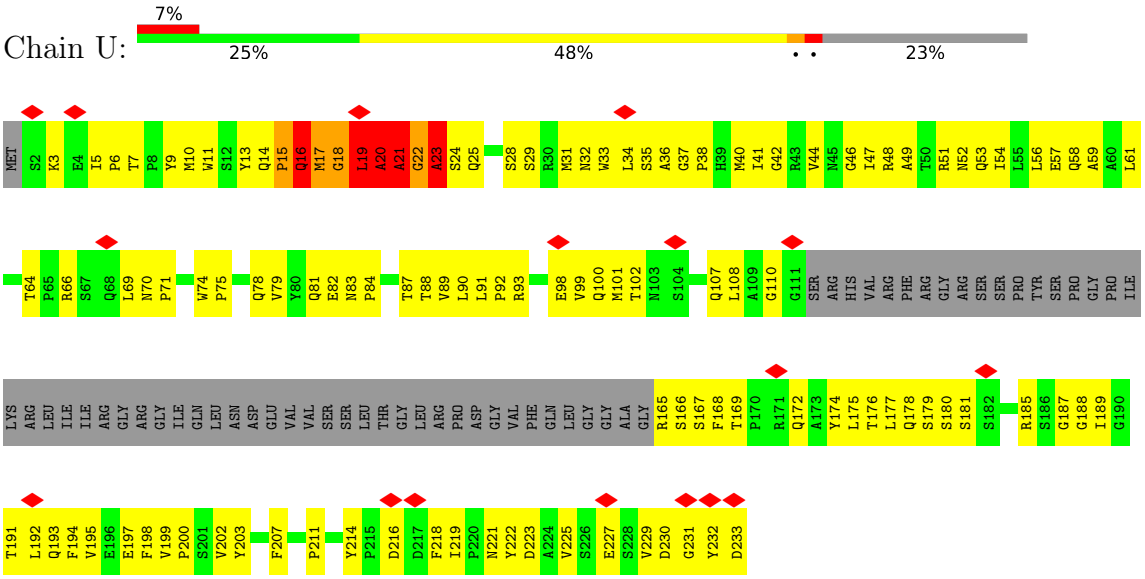
• Molecule 7: Pre-hexon-linking protein VIII

Chain T:

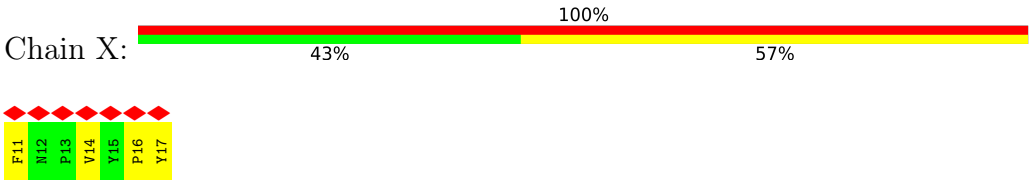




• Molecule 7: Pre-hexon-linking protein VIII



• Molecule 8: Fiber protein



• Molecule 9: Unknown

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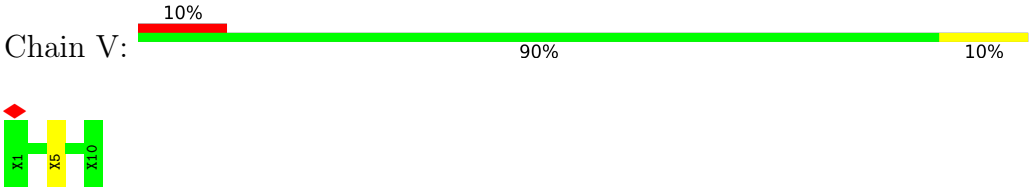
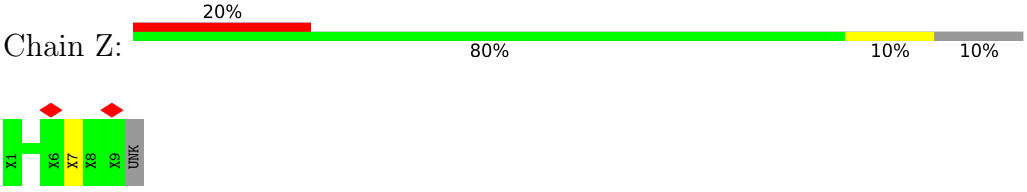
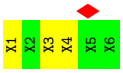


• Molecule 9: Unknown



• Molecule 10: Unknown

Chain Y:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	19472	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.03	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.067	Depositor
Minimum map value	-0.049	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.015	Depositor
Map size (Å)	936.9, 936.9, 936.9	wwPDB
Map dimensions	900, 900, 900	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.041, 1.041, 1.041	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	0	1.90	2/97 (2.1%)	2.57	9/129 (7.0%)
1	1	2.39	8/129 (6.2%)	2.63	10/174 (5.7%)
1	2	1.45	0/49	2.61	6/64 (9.4%)
1	3	1.40	0/101	1.57	2/136 (1.5%)
1	4	2.01	9/152 (5.9%)	2.18	8/205 (3.9%)
1	5	2.32	7/126 (5.6%)	3.09	11/169 (6.5%)
1	6	0.78	0/29	2.00	2/37 (5.4%)
1	7	1.40	1/29 (3.4%)	1.69	1/37 (2.7%)
1	8	2.09	10/203 (4.9%)	2.80	12/272 (4.4%)
1	9	1.13	0/29	1.53	1/37 (2.7%)
2	A	1.02	64/6485 (1.0%)	1.41	132/8832 (1.5%)
2	B	1.66	173/6946 (2.5%)	2.03	338/9461 (3.6%)
2	C	1.75	222/7052 (3.1%)	2.13	394/9608 (4.1%)
2	D	1.14	94/7250 (1.3%)	1.45	146/9872 (1.5%)
2	E	1.09	89/7181 (1.2%)	1.45	149/9781 (1.5%)
2	F	1.36	128/7265 (1.8%)	1.72	235/9895 (2.4%)
2	G	1.53	174/7201 (2.4%)	1.70	247/9809 (2.5%)
2	H	1.16	100/7290 (1.4%)	1.48	175/9931 (1.8%)
2	I	0.70	28/7412 (0.4%)	0.99	70/10100 (0.7%)
2	J	1.26	103/7401 (1.4%)	1.58	203/10084 (2.0%)
2	K	0.83	43/6891 (0.6%)	1.04	71/9387 (0.8%)
2	L	0.84	32/7023 (0.5%)	1.11	99/9565 (1.0%)
3	M	0.57	6/3744 (0.2%)	0.94	28/5099 (0.5%)
4	N	2.31	11/199 (5.5%)	2.68	17/265 (6.4%)
5	O	1.03	22/2120 (1.0%)	1.41	56/2882 (1.9%)
6	P	1.16	5/428 (1.2%)	1.24	8/583 (1.4%)
6	Q	1.10	7/375 (1.9%)	1.31	9/514 (1.8%)
6	R	1.91	9/234 (3.8%)	2.15	11/317 (3.5%)
6	S	1.89	13/428 (3.0%)	2.32	21/583 (3.6%)
7	T	0.68	7/1406 (0.5%)	0.95	13/1922 (0.7%)
7	U	0.83	14/1410 (1.0%)	0.83	9/1927 (0.5%)
8	X	0.21	0/68	0.34	0/94
All	All	1.22	1381/96753 (1.4%)	1.53	2493/131771 (1.9%)

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	2	2	0
1	3	1	0
1	5	1	0
1	8	3	0
2	A	4	1
2	B	5	3
2	C	12	2
2	D	4	3
2	E	2	6
2	F	3	1
2	G	0	4
2	H	1	1
2	I	4	0
2	J	6	1
2	K	1	0
2	L	1	2
3	M	2	1
5	O	2	2
6	P	1	0
6	R	1	0
6	S	1	0
7	T	0	1
7	U	0	1
All	All	57	29

All (1381) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	886	PRO	N-CD	-37.89	0.94	1.47
2	L	179	PRO	N-CD	-21.82	1.17	1.47
2	G	392	PRO	N-CD	-20.32	1.19	1.47
2	H	208	PRO	N-CD	-19.64	1.20	1.47
2	J	181	PRO	N-CD	-18.34	1.22	1.47
2	B	677	SER	CA-CB	-17.09	1.40	1.53
2	C	392	PRO	N-CD	-16.07	1.25	1.47
3	M	363	THR	C-N	14.66	1.54	1.33
3	M	365	ALA	C-O	-12.74	1.07	1.24
2	G	919	SER	CA-CB	-12.62	1.37	1.53
2	G	701	SER	CA-CB	-12.33	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	219	PRO	C-O	-12.25	1.08	1.24
2	L	701	SER	CA-CB	-12.19	1.38	1.53
2	J	47	ASN	C-O	-12.19	1.15	1.25
2	E	816	PRO	C-O	-12.12	1.08	1.24
2	F	215	SER	CA-CB	-12.02	1.33	1.53
2	D	817	ALA	CA-CB	-12.01	1.44	1.54
2	F	287	SER	CA-CB	-11.92	1.44	1.54
2	F	126	PRO	N-CA	-11.91	1.32	1.47
2	G	703	SER	CA-CB	-11.83	1.33	1.53
2	B	345	SER	CA-CB	-11.81	1.33	1.53
2	F	766	SER	CA-CB	-11.81	1.38	1.53
2	G	52	PRO	C-O	-11.79	1.11	1.23
2	C	345	SER	CA-CB	-11.79	1.33	1.53
2	A	11	SER	CA-CB	-11.43	1.34	1.53
2	G	329	SER	CA-CB	-11.42	1.36	1.53
2	G	345	SER	CA-CB	-11.41	1.34	1.53
2	J	919	SER	CA-CB	-11.28	1.36	1.53
2	G	700	SER	CA-CB	-11.11	1.34	1.53
2	J	700	SER	CA-CB	-11.07	1.34	1.53
2	F	300	PRO	C-O	-11.06	1.10	1.23
2	H	300	PRO	C-O	-11.01	1.12	1.23
2	F	117	SER	CA-CB	-11.01	1.35	1.53
2	K	300	PRO	N-CA	-10.96	1.33	1.47
3	M	365	ALA	CA-CB	-10.95	1.34	1.53
2	I	919	SER	CA-CB	-10.92	1.37	1.53
2	C	775	SER	CA-CB	-10.89	1.35	1.53
2	K	228	SER	CA-CB	-10.81	1.39	1.53
2	F	733	ASN	C-O	-10.79	1.14	1.24
2	D	100	TYR	CA-C	-10.77	1.47	1.53
2	H	300	PRO	N-CA	-10.75	1.35	1.47
5	O	91	SER	CA-CB	-10.70	1.36	1.53
2	G	909	ILE	C-O	-10.67	1.13	1.24
5	O	191	SER	CA-CB	-10.65	1.38	1.53
6	R	18	SER	CA-CB	-10.62	1.36	1.53
2	H	703	SER	CA-CB	-10.58	1.36	1.53
2	F	820	PRO	N-CA	-10.56	1.34	1.47
6	P	20	TYR	C-O	-10.56	1.10	1.24
2	D	126	PRO	N-CA	-10.55	1.33	1.47
2	C	613	ASP	C-O	-10.51	1.12	1.23
2	E	703	SER	CA-CB	-10.49	1.35	1.53
2	E	917	PRO	C-O	-10.47	1.10	1.24
2	E	820	PRO	N-CA	-10.46	1.34	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	870	SER	CA-CB	-10.43	1.37	1.53
2	B	300	PRO	N-CA	-10.42	1.33	1.47
2	J	117	SER	CA-CB	-10.35	1.38	1.53
2	H	126	PRO	N-CA	-10.32	1.36	1.47
2	G	307	ASP	C-O	-10.32	1.10	1.24
2	G	300	PRO	N-CA	-10.31	1.34	1.47
2	L	181	PRO	C-O	-10.26	1.10	1.24
2	F	773	PRO	C-O	-10.26	1.12	1.23
2	F	775	SER	CA-CB	-10.22	1.36	1.53
5	O	197	PHE	C-O	-10.12	1.11	1.24
2	B	846	ILE	C-O	-10.07	1.11	1.24
2	E	822	PRO	C-O	-10.05	1.14	1.23
2	H	126	PRO	C-O	-10.04	1.16	1.24
6	P	19	PRO	N-CA	-10.02	1.34	1.47
2	C	117	SER	CA-CB	-9.98	1.37	1.53
2	F	278	PRO	N-CA	-9.97	1.35	1.46
2	K	297	PRO	C-O	-9.97	1.10	1.24
2	C	32	ALA	C-N	-9.94	1.20	1.33
2	C	733	ASN	C-O	-9.90	1.16	1.23
2	G	304	GLY	C-O	-9.88	1.10	1.23
2	G	51	ALA	CA-CB	-9.86	1.42	1.53
2	I	361	SER	CA-CB	-9.82	1.36	1.53
2	C	297	PRO	N-CA	-9.77	1.36	1.46
2	G	300	PRO	C-O	-9.77	1.12	1.23
2	K	303	ILE	C-O	-9.75	1.14	1.23
2	H	705	PRO	C-O	-9.66	1.11	1.24
2	C	757	PRO	C-O	-9.66	1.11	1.24
2	B	847	PRO	N-CA	-9.62	1.35	1.47
2	G	48	PRO	N-CA	-9.55	1.36	1.47
2	L	700	SER	CA-CB	-9.52	1.37	1.53
2	J	709	ARG	C-O	-9.51	1.12	1.24
2	D	112	SER	CA-CB	-9.50	1.35	1.53
2	C	589	TYR	C-O	-9.45	1.12	1.24
2	F	103	ILE	C-O	-9.45	1.14	1.24
2	B	852	PHE	C-O	-9.43	1.12	1.24
2	H	219	PRO	C-O	-9.42	1.13	1.23
2	C	585	SER	CA-CB	-9.41	1.36	1.53
2	B	369	SER	CA-CB	-9.34	1.36	1.54
2	D	219	PRO	N-CA	-9.33	1.35	1.47
2	J	48	PRO	C-O	-9.32	1.12	1.23
2	C	315	TYR	CA-C	-9.31	1.48	1.53
2	J	705	PRO	C-O	-9.31	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	820	PRO	C-O	-9.22	1.11	1.24
2	C	300	PRO	C-O	-9.22	1.11	1.24
2	D	799	SER	CA-CB	-9.20	1.39	1.53
2	B	899	VAL	C-O	-9.19	1.14	1.23
2	C	605	ALA	CA-CB	-9.15	1.38	1.53
2	D	816	PRO	C-O	-9.13	1.12	1.24
2	J	219	PRO	N-CA	-9.13	1.35	1.47
2	K	299	ARG	C-O	-9.11	1.12	1.24
2	H	125	ALA	CA-CB	-9.09	1.39	1.53
2	G	302	TYR	C-O	-9.09	1.12	1.23
2	C	99	THR	C-O	-9.07	1.13	1.23
2	G	904	PRO	N-CA	-9.05	1.35	1.47
2	I	917	PRO	C-O	-9.04	1.12	1.24
1	5	16	ARG	C-O	-9.02	1.12	1.24
4	N	171	PRO	C-O	-9.01	1.12	1.24
2	B	886	PRO	N-CA	-9.01	1.35	1.47
5	O	196	PHE	C-O	-9.01	1.12	1.24
2	J	444	SER	CA-CB	-8.99	1.39	1.53
1	1	11	PRO	C-O	-8.97	1.13	1.23
2	C	701	SER	CA-CB	-8.97	1.38	1.53
2	E	697	MET	C-O	-8.96	1.12	1.24
2	G	52	PRO	N-CA	-8.95	1.36	1.47
2	G	325	ALA	CA-CB	-8.95	1.40	1.53
2	E	886	PRO	C-O	-8.91	1.12	1.23
2	B	297	PRO	N-CA	-8.90	1.36	1.46
2	B	652	SER	CA-CB	-8.89	1.38	1.53
2	G	903	GLN	C-O	-8.88	1.12	1.24
1	5	15	SER	CA-CB	-8.87	1.40	1.53
2	L	228	SER	CA-CB	-8.87	1.42	1.53
2	H	818	ASN	C-O	-8.86	1.12	1.24
6	P	19	PRO	C-O	-8.85	1.12	1.24
2	D	103	ILE	C-O	-8.84	1.13	1.24
2	C	747	TYR	C-O	-8.84	1.12	1.24
2	B	917	PRO	N-CA	-8.80	1.36	1.47
2	G	325	ALA	C-O	-8.80	1.13	1.23
2	J	701	SER	C-O	-8.77	1.15	1.23
2	B	898	VAL	C-O	-8.76	1.13	1.24
2	G	310	ILE	C-O	-8.76	1.13	1.24
1	1	17	PRO	N-CA	-8.76	1.36	1.47
2	A	8	PRO	C-O	-8.74	1.12	1.24
2	B	886	PRO	C-O	-8.74	1.12	1.24
6	Q	18	SER	CA-CB	-8.73	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	709	ARG	C-O	-8.73	1.12	1.24
2	L	703	SER	CA-CB	-8.71	1.39	1.53
2	C	594	PRO	C-O	-8.70	1.12	1.24
2	B	846	ILE	CA-C	-8.70	1.43	1.52
2	C	364	ASN	C-O	-8.69	1.13	1.24
1	4	15	SER	CA-CB	-8.67	1.38	1.53
2	H	813	GLN	C-O	-8.67	1.17	1.24
1	1	15	SER	CA-CB	-8.67	1.38	1.53
2	K	215	SER	CA-CB	-8.65	1.38	1.53
2	C	568	SER	CA-C	-8.64	1.49	1.53
2	D	739	PHE	CA-C	-8.64	1.46	1.52
2	B	342	THR	C-O	-8.63	1.12	1.24
2	L	224	GLY	C-O	-8.63	1.11	1.23
2	C	595	MET	C-O	-8.62	1.13	1.24
2	G	378	GLU	C-O	-8.61	1.13	1.24
2	E	807	PRO	C-O	-8.61	1.12	1.24
2	F	650	GLY	C-O	-8.55	1.12	1.23
2	J	123	SER	CA-CB	-8.55	1.40	1.54
2	E	807	PRO	N-CA	-8.54	1.36	1.47
2	C	567	GLN	C-O	-8.53	1.13	1.23
2	G	911	ALA	CA-CB	-8.51	1.39	1.53
2	B	849	SER	CA-CB	-8.50	1.41	1.54
2	E	799	SER	CA-CB	-8.49	1.40	1.53
2	J	99	THR	C-O	-8.47	1.13	1.24
2	J	448	SER	CA-CB	-8.47	1.39	1.53
2	H	297	PRO	N-CA	-8.46	1.36	1.47
2	C	705	PRO	C-O	-8.46	1.12	1.24
2	G	323	VAL	C-O	-8.46	1.14	1.24
2	G	98	SER	CA-CB	-8.45	1.41	1.52
2	D	125	ALA	C-O	-8.44	1.13	1.24
2	F	219	PRO	N-CA	-8.44	1.36	1.47
2	L	215	SER	CA-CB	-8.43	1.39	1.53
2	C	333	ALA	CA-CB	-8.43	1.44	1.53
2	G	297	PRO	C-O	-8.42	1.13	1.24
2	B	847	PRO	C-O	-8.41	1.13	1.23
2	C	569	SER	CA-CB	-8.40	1.39	1.53
2	C	317	SER	CA-CB	-8.39	1.39	1.53
2	K	266	SER	CA-CB	-8.38	1.39	1.52
2	C	600	ALA	CA-C	-8.38	1.44	1.52
2	H	286	SER	CA-CB	-8.37	1.39	1.53
2	E	919	SER	CA-CB	-8.35	1.39	1.53
2	I	365	GLN	C-O	-8.35	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	709	ARG	C-O	-8.35	1.14	1.24
2	G	917	PRO	C-O	-8.35	1.13	1.24
2	C	579	ALA	CA-CB	-8.34	1.39	1.53
2	C	703	SER	CA-CB	-8.34	1.39	1.53
2	D	122	ASN	C-O	-8.33	1.13	1.24
2	H	270	PRO	C-O	-8.33	1.14	1.23
2	J	703	SER	CA-CB	-8.33	1.39	1.53
3	M	61	LEU	C-O	-8.32	1.14	1.23
2	G	295	ALA	CA-CB	-8.31	1.44	1.54
2	G	295	ALA	C-O	-8.30	1.18	1.24
2	J	170	PRO	C-O	-8.29	1.13	1.24
2	C	615	SER	C-O	-8.29	1.13	1.24
2	B	323	VAL	C-O	-8.28	1.14	1.24
2	F	705	PRO	C-O	-8.28	1.13	1.24
2	J	219	PRO	C-O	-8.27	1.13	1.24
2	J	457	SER	CA-CB	-8.27	1.39	1.53
2	J	98	SER	CA-CB	-8.26	1.35	1.53
1	0	25	SER	CA-CB	-8.26	1.39	1.53
2	C	766	SER	CA-CB	-8.26	1.40	1.53
2	G	363	TRP	C-O	-8.25	1.13	1.24
6	Q	19	PRO	C-O	-8.25	1.13	1.24
2	G	396	SER	CA-CB	-8.25	1.39	1.53
2	G	716	PHE	C-O	-8.24	1.14	1.24
2	F	819	TYR	C-N	-8.24	1.24	1.33
4	N	186	VAL	C-O	-8.24	1.14	1.24
2	J	103	ILE	C-O	-8.23	1.14	1.24
2	G	332	ASN	C-O	-8.22	1.13	1.24
2	G	901	ILE	C-O	-8.22	1.14	1.24
2	F	269	ALA	C-O	-8.22	1.13	1.24
2	J	226	GLN	CA-C	-8.22	1.42	1.53
2	C	297	PRO	C-O	-8.21	1.13	1.23
2	E	48	PRO	N-CA	-8.21	1.36	1.47
2	J	701	SER	CA-CB	-8.21	1.38	1.52
2	G	48	PRO	C-O	-8.20	1.12	1.23
2	G	297	PRO	N-CA	-8.19	1.36	1.47
7	U	23	ALA	C-O	-8.18	1.13	1.24
2	F	297	PRO	N-CA	-8.17	1.36	1.47
2	F	387	PRO	N-CA	-8.14	1.36	1.47
2	H	297	PRO	C-O	-8.13	1.13	1.24
2	B	670	PRO	N-CA	-8.12	1.36	1.47
4	N	192	VAL	C-O	-8.12	1.14	1.23
2	G	361	SER	CA-CB	-8.12	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	56	VAL	C-O	-8.12	1.14	1.24
6	R	20	TYR	C-O	-8.11	1.13	1.24
2	B	299	ARG	C-O	-8.10	1.13	1.24
2	B	844	TRP	C-O	-8.09	1.14	1.23
2	E	701	SER	C-O	-8.08	1.15	1.24
2	G	732	CYS	C-O	-8.08	1.13	1.24
2	K	300	PRO	C-O	-8.08	1.13	1.24
2	E	313	MET	C-O	-8.08	1.13	1.24
2	L	178	GLN	C-N	8.07	1.40	1.33
2	L	179	PRO	C-O	-8.07	1.15	1.23
5	O	193	PRO	C-O	-8.07	1.13	1.24
2	F	125	ALA	C-O	-8.05	1.15	1.24
2	G	51	ALA	C-O	-8.05	1.16	1.24
2	C	614	GLN	C-O	-8.04	1.13	1.24
2	A	627	TYR	C-O	-8.02	1.14	1.24
2	A	822	PRO	C-O	-8.02	1.13	1.24
2	H	305	PHE	C-O	-8.01	1.13	1.23
2	G	913	TYR	C-O	-8.01	1.14	1.23
2	E	701	SER	CA-CB	-8.00	1.41	1.53
1	4	19	MET	CA-CB	-7.99	1.47	1.53
2	B	361	SER	CA-CB	-7.99	1.40	1.53
2	C	215	SER	CA-CB	-7.98	1.42	1.52
2	G	912	VAL	C-O	-7.97	1.14	1.24
2	E	50	VAL	C-O	-7.96	1.15	1.24
2	I	132	PRO	N-CA	-7.95	1.37	1.47
2	B	208	PRO	C-O	-7.95	1.13	1.24
2	G	317	SER	CA-CB	-7.94	1.40	1.53
7	U	21	ALA	C-O	-7.93	1.14	1.24
2	D	822	PRO	C-O	-7.93	1.13	1.24
2	C	699	ASP	C-N	-7.92	1.22	1.33
2	F	118	GLY	C-O	-7.92	1.15	1.24
2	F	263	GLU	C-O	-7.92	1.13	1.24
2	J	208	PRO	C-O	-7.92	1.14	1.23
2	C	773	PRO	C-O	-7.92	1.14	1.23
2	G	917	PRO	CA-CB	-7.91	1.42	1.53
2	F	704	TRP	C-O	-7.90	1.14	1.24
2	G	910	GLU	C-O	-7.89	1.13	1.23
2	F	816	PRO	N-CA	-7.88	1.37	1.47
2	D	819	TYR	C-O	-7.87	1.14	1.24
2	C	745	SER	CA-CB	-7.87	1.38	1.54
2	C	705	PRO	N-CA	-7.86	1.37	1.47
2	J	697	MET	C-O	-7.86	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	51	ALA	CA-CB	-7.86	1.41	1.53
2	C	582	ARG	CA-C	-7.86	1.41	1.53
2	G	369	SER	CA-CB	-7.86	1.41	1.53
2	A	52	PRO	N-CA	-7.85	1.37	1.47
2	H	704	TRP	C-O	-7.85	1.14	1.24
2	E	51	ALA	C-O	-7.84	1.15	1.23
1	8	28	SER	CA-CB	-7.84	1.40	1.53
2	A	799	SER	CA-CB	-7.83	1.40	1.53
2	G	47	ASN	C-O	-7.82	1.13	1.23
6	R	19	PRO	C-O	-7.80	1.13	1.24
2	G	904	PRO	C-O	-7.79	1.13	1.24
2	D	127	LYS	C-O	-7.78	1.14	1.24
2	G	364	ASN	C-O	-7.76	1.14	1.24
2	G	916	THR	C-O	-7.75	1.14	1.24
2	D	735	THR	C-O	-7.74	1.15	1.24
2	H	148	PRO	N-CA	-7.74	1.37	1.47
4	N	172	THR	C-O	-7.73	1.14	1.24
2	B	303	ILE	C-O	-7.73	1.14	1.24
2	L	219	PRO	C-O	-7.72	1.14	1.24
2	K	297	PRO	N-CA	-7.72	1.37	1.47
2	G	329	SER	C-O	-7.72	1.13	1.23
2	E	47	ASN	C-O	-7.71	1.14	1.24
2	I	842	THR	C-O	-7.71	1.17	1.24
2	F	645	TRP	C-O	-7.71	1.14	1.24
2	B	857	ALA	CA-CB	-7.70	1.42	1.53
2	A	297	PRO	N-CA	-7.68	1.37	1.47
2	A	807	PRO	N-CA	-7.68	1.37	1.47
2	F	100	TYR	C-O	-7.67	1.15	1.23
2	G	914	LEU	C-O	-7.67	1.15	1.24
2	K	301	ASN	C-O	-7.67	1.15	1.24
2	B	367	VAL	C-O	-7.67	1.15	1.24
2	C	771	PHE	C-O	-7.67	1.14	1.24
2	C	455	PRO	N-CA	-7.66	1.37	1.47
2	H	296	ALA	CA-CB	-7.66	1.41	1.53
2	E	820	PRO	C-O	-7.65	1.15	1.23
2	E	830	PRO	C-O	-7.65	1.15	1.23
2	K	303	ILE	CA-C	-7.65	1.44	1.53
7	U	16	GLN	C-O	-7.65	1.14	1.24
2	C	34	ALA	CA-CB	-7.63	1.40	1.53
2	E	882	PRO	N-CA	-7.63	1.37	1.47
2	G	278	PRO	N-CA	-7.63	1.38	1.47
2	G	305	PHE	C-O	-7.62	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	648	PHE	C-O	-7.61	1.14	1.24
2	B	300	PRO	C-O	-7.60	1.14	1.24
2	F	267	ILE	C-O	-7.59	1.15	1.24
2	B	659	LYS	C-O	-7.59	1.14	1.24
2	E	96	MET	C-O	-7.58	1.14	1.24
2	B	894	GLU	C-O	-7.55	1.14	1.24
2	D	212	CYS	C-O	-7.55	1.14	1.24
2	J	126	PRO	C-O	-7.55	1.16	1.23
2	F	793	PRO	C-O	-7.54	1.14	1.24
2	G	380	HIS	C-O	-7.54	1.14	1.24
2	C	600	ALA	CA-CB	-7.53	1.42	1.53
2	C	830	PRO	C-O	-7.52	1.14	1.24
2	J	871	ALA	CA-CB	-7.52	1.42	1.53
2	B	820	PRO	N-CA	-7.50	1.37	1.47
2	C	749	ILE	C-O	-7.50	1.15	1.24
2	D	111	PRO	N-CA	-7.48	1.37	1.47
2	H	273	HIS	C-O	-7.48	1.15	1.24
2	H	123	SER	CA-CB	-7.48	1.40	1.53
2	B	675	SER	CA-CB	-7.47	1.40	1.53
2	D	361	SER	CA-CB	-7.47	1.42	1.53
2	B	820	PRO	C-O	-7.47	1.14	1.24
2	C	342	THR	C-O	-7.47	1.14	1.24
2	G	348	LEU	C-O	-7.47	1.14	1.24
2	C	743	MET	C-O	-7.46	1.15	1.24
1	1	17	PRO	C-O	-7.46	1.14	1.24
2	I	173	ALA	C-O	-7.46	1.14	1.24
2	E	882	PRO	C-O	-7.46	1.13	1.23
2	C	304	GLY	C-O	-7.45	1.13	1.23
2	G	327	GLN	C-O	-7.45	1.15	1.24
2	J	450	VAL	C-O	-7.44	1.15	1.24
2	B	853	MET	C-O	-7.44	1.16	1.24
2	G	729	VAL	C-O	-7.44	1.15	1.24
2	I	841	ARG	C-O	-7.44	1.14	1.24
2	H	303	ILE	C-O	-7.44	1.15	1.24
2	C	103	ILE	C-O	-7.43	1.15	1.24
2	H	705	PRO	N-CA	-7.42	1.37	1.47
1	1	8	SER	CA-CB	-7.41	1.41	1.53
2	F	115	PRO	C-O	-7.41	1.14	1.24
2	F	270	PRO	C-O	-7.41	1.14	1.24
2	D	118	GLY	C-O	-7.41	1.14	1.23
2	F	816	PRO	C-O	-7.40	1.14	1.24
2	J	215	SER	CA-CB	-7.40	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	752	GLN	C-O	-7.39	1.16	1.23
2	B	377	ILE	C-O	-7.38	1.15	1.24
4	N	190	MET	C-O	-7.38	1.15	1.24
2	B	484	PRO	C-O	-7.38	1.15	1.24
2	H	729	VAL	C-O	-7.37	1.15	1.24
2	G	911	ALA	C-O	-7.36	1.14	1.24
2	K	219	PRO	N-CA	-7.35	1.38	1.47
2	G	360	PHE	C-O	-7.34	1.16	1.24
2	B	679	PRO	C-O	-7.34	1.16	1.23
7	U	23	ALA	C-N	-7.34	1.24	1.33
2	L	179	PRO	N-CA	-7.34	1.40	1.47
1	8	23	ASN	C-O	-7.34	1.15	1.23
1	4	17	PRO	N-CA	-7.33	1.38	1.47
2	C	301	ASN	C-O	-7.33	1.15	1.23
2	C	591	ASN	C-O	-7.32	1.15	1.24
2	E	888	LEU	C-O	-7.32	1.15	1.24
2	J	915	ARG	C-O	-7.32	1.14	1.23
2	C	365	GLN	C-O	-7.32	1.14	1.24
2	J	917	PRO	CA-CB	-7.31	1.43	1.53
2	J	126	PRO	N-CA	-7.31	1.39	1.47
2	C	300	PRO	N-CA	-7.31	1.38	1.47
2	E	705	PRO	C-O	-7.30	1.14	1.24
2	E	889	LEU	C-O	-7.30	1.14	1.23
2	F	125	ALA	CA-CB	-7.30	1.44	1.53
2	E	828	ALA	CA-CB	-7.30	1.43	1.53
2	C	596	ALA	C-O	-7.29	1.14	1.24
2	G	270	PRO	C-O	-7.29	1.14	1.24
2	H	219	PRO	N-CA	-7.29	1.38	1.47
4	N	178	PRO	C-O	-7.29	1.14	1.24
2	H	278	PRO	N-CA	-7.28	1.38	1.47
2	D	269	ALA	C-O	-7.28	1.15	1.24
2	G	365	GLN	C-O	-7.27	1.13	1.23
2	J	218	LYS	C-O	-7.26	1.15	1.24
1	4	16	ARG	C-O	-7.26	1.15	1.24
2	D	362	MET	C-O	-7.25	1.12	1.24
2	H	807	PRO	N-CA	-7.25	1.38	1.47
2	C	604	GLU	C-O	-7.25	1.15	1.24
2	D	115	PRO	C-O	-7.24	1.15	1.23
2	C	615	SER	CA-CB	-7.24	1.41	1.53
2	J	211	PRO	N-CA	-7.24	1.38	1.47
2	D	101	PHE	C-O	-7.23	1.14	1.24
1	4	18	PHE	C-O	-7.22	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	817	ALA	CA-CB	-7.21	1.41	1.53
2	J	111	PRO	C-O	-7.20	1.14	1.24
2	B	325	ALA	C-N	-7.20	1.28	1.33
2	G	262	ALA	C-N	7.19	1.45	1.33
2	F	224	GLY	C-O	-7.19	1.14	1.23
2	D	211	PRO	C-O	-7.17	1.14	1.24
2	G	359	TYR	C-O	-7.17	1.13	1.23
2	F	101	PHE	C-O	-7.16	1.15	1.23
2	F	703	SER	CA-CB	-7.16	1.40	1.53
2	F	647	ALA	C-O	-7.16	1.15	1.24
6	S	2	SER	CA-CB	-7.16	1.44	1.53
2	C	323	VAL	C-O	-7.15	1.15	1.24
2	G	52	PRO	CA-CB	-7.15	1.44	1.53
2	A	435	ILE	C-O	-7.15	1.16	1.24
2	D	219	PRO	C-O	-7.15	1.14	1.24
2	H	302	TYR	C-O	-7.14	1.14	1.23
2	C	34	ALA	C-O	-7.13	1.14	1.24
2	G	179	PRO	C-O	-7.13	1.14	1.24
2	I	920	ALA	CA-CB	-7.12	1.42	1.53
2	G	61	SER	CA-CB	-7.12	1.41	1.53
2	F	830	PRO	C-O	-7.12	1.14	1.24
2	H	126	PRO	CA-CB	-7.12	1.46	1.54
2	B	870	SER	CA-CB	-7.12	1.42	1.53
3	M	64	THR	C-O	-7.11	1.15	1.24
2	F	819	TYR	CA-C	-7.11	1.43	1.52
2	F	270	PRO	N-CA	-7.09	1.38	1.47
2	J	917	PRO	N-CA	-7.09	1.38	1.47
2	C	126	PRO	N-CA	-7.09	1.38	1.47
2	K	310	ILE	CA-C	-7.08	1.43	1.52
2	F	822	PRO	C-O	-7.08	1.14	1.24
5	O	120	ALA	CA-CB	-7.07	1.42	1.53
2	E	788	GLN	C-O	-7.06	1.15	1.24
2	D	729	VAL	C-O	-7.06	1.15	1.24
2	H	270	PRO	N-CA	-7.05	1.38	1.47
2	C	596	ALA	CA-CB	-7.05	1.41	1.53
2	H	259	VAL	CA-C	-7.05	1.47	1.53
2	B	821	TYR	C-O	-7.04	1.15	1.24
2	C	831	SER	CA-CB	-7.04	1.42	1.53
2	E	662	PRO	N-CA	-7.03	1.38	1.47
2	G	717	GLU	C-O	-7.03	1.15	1.24
2	C	324	LEU	C-O	-7.03	1.15	1.24
7	U	23	ALA	CA-CB	-7.03	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	646	ALA	CA-CB	-7.03	1.42	1.54
2	F	300	PRO	N-CA	-7.03	1.38	1.47
2	C	590	ALA	CA-CB	-7.02	1.41	1.53
2	C	716	PHE	C-O	-7.02	1.15	1.24
2	E	662	PRO	C-O	-7.01	1.12	1.23
2	G	226	GLN	C-O	-7.01	1.15	1.24
2	D	270	PRO	N-CA	-7.01	1.38	1.47
2	J	45	PHE	C-O	-7.01	1.15	1.24
2	I	364	ASN	C-O	-7.01	1.15	1.24
2	D	737	ASP	C-O	-7.00	1.15	1.24
2	G	923	ALA	C-O	-7.00	1.15	1.23
2	B	448	SER	CA-CB	-7.00	1.41	1.53
2	B	317	SER	CA-CB	-7.00	1.41	1.53
2	C	107	LEU	C-O	-7.00	1.15	1.23
2	B	913	TYR	C-O	-6.98	1.15	1.24
2	A	705	PRO	C-O	-6.98	1.14	1.24
2	F	299	ARG	C-O	-6.98	1.15	1.24
2	B	917	PRO	CA-CB	-6.97	1.43	1.53
2	H	293	GLN	C-O	-6.97	1.15	1.23
2	K	269	ALA	CA-C	-6.97	1.44	1.52
2	D	365	GLN	C-O	-6.97	1.15	1.24
2	C	376	ILE	C-O	-6.97	1.15	1.24
2	C	32	ALA	CA-CB	-6.96	1.42	1.54
2	F	220	THR	C-O	-6.95	1.16	1.24
2	C	605	ALA	CA-C	-6.94	1.43	1.52
2	B	485	SER	CA-CB	-6.93	1.43	1.53
2	H	180	GLU	C-O	-6.93	1.15	1.24
6	S	18	SER	CA-CB	-6.93	1.42	1.53
2	G	296	ALA	CA-CB	-6.93	1.42	1.53
2	A	56	VAL	C-O	-6.93	1.15	1.24
2	G	922	ASN	C-O	-6.92	1.15	1.24
2	G	335	VAL	C-O	-6.92	1.16	1.24
2	E	779	VAL	C-O	-6.91	1.16	1.24
2	C	369	SER	CA-CB	-6.91	1.41	1.53
2	J	227	ALA	CA-C	-6.91	1.43	1.53
6	Q	20	TYR	C-O	-6.91	1.15	1.23
2	G	427	SER	CA-CB	-6.91	1.39	1.54
2	F	773	PRO	N-CA	-6.90	1.38	1.47
2	G	266	SER	CA-CB	-6.89	1.41	1.53
2	C	718	ILE	C-O	-6.88	1.15	1.24
2	H	256	PRO	N-CA	-6.88	1.38	1.47
2	B	911	ALA	C-O	-6.88	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	295	ALA	C-O	-6.88	1.15	1.24
6	S	20	TYR	C-O	-6.88	1.15	1.24
5	O	116	THR	C-O	-6.88	1.15	1.24
2	G	303	ILE	C-O	-6.87	1.15	1.24
2	J	392	PRO	C-O	-6.87	1.15	1.24
2	C	580	SER	CA-C	-6.87	1.43	1.52
2	H	179	PRO	N-CA	-6.87	1.38	1.47
2	F	297	PRO	C-O	-6.86	1.15	1.24
2	G	344	LEU	C-O	-6.86	1.15	1.24
4	N	179	LYS	C-O	-6.86	1.17	1.23
2	C	586	ILE	C-O	-6.86	1.16	1.24
2	D	100	TYR	C-O	-6.85	1.15	1.24
2	G	312	LEU	C-O	-6.85	1.15	1.24
2	C	346	TYR	C-O	-6.85	1.15	1.24
2	H	208	PRO	C-O	-6.85	1.15	1.23
2	E	831	SER	CA-CB	-6.84	1.41	1.53
2	K	212	CYS	C-O	-6.84	1.15	1.24
2	B	822	PRO	C-O	-6.84	1.15	1.24
2	A	270	PRO	N-CA	-6.84	1.38	1.47
2	I	812	GLY	C-O	-6.83	1.17	1.23
2	G	50	VAL	C-O	-6.83	1.16	1.24
7	U	21	ALA	CA-CB	-6.83	1.42	1.53
2	E	833	THR	C-O	-6.82	1.15	1.23
2	D	276	TYR	C-O	-6.82	1.15	1.24
2	L	123	SER	CA-CB	-6.82	1.42	1.53
2	C	357	SER	CA-CB	-6.81	1.43	1.53
2	C	351	ASP	C-O	-6.81	1.15	1.24
2	C	455	PRO	C-O	-6.81	1.15	1.24
2	G	298	ASN	C-O	-6.80	1.15	1.23
2	G	97	ALA	CA-CB	-6.80	1.43	1.53
2	B	487	LEU	C-N	6.80	1.42	1.33
2	D	364	ASN	C-O	-6.80	1.15	1.24
2	F	216	TYR	C-O	-6.80	1.16	1.23
2	B	321	MET	C-O	-6.80	1.17	1.24
2	C	181	PRO	N-CA	-6.80	1.38	1.47
2	G	372	PRO	C-O	-6.80	1.15	1.24
2	E	700	SER	CA-CB	-6.79	1.42	1.53
2	F	296	ALA	C-O	-6.79	1.15	1.24
2	F	734	MET	C-O	-6.79	1.14	1.23
2	C	583	PHE	C-O	-6.78	1.18	1.24
2	C	303	ILE	C-O	-6.77	1.16	1.24
2	C	341	ASN	C-O	-6.77	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	917	PRO	CA-CB	-6.77	1.44	1.53
2	B	663	SER	CA-CB	-6.76	1.42	1.53
1	1	8	SER	C-O	-6.76	1.15	1.24
2	G	362	MET	C-O	-6.76	1.15	1.24
2	K	307	ASP	C-O	-6.75	1.15	1.24
5	O	195	TYR	C-O	-6.75	1.15	1.24
2	G	923	ALA	CA-CB	-6.74	1.43	1.53
2	J	427	SER	CA-CB	-6.74	1.42	1.53
2	D	253	PRO	N-CA	-6.73	1.38	1.47
2	J	919	SER	C-O	-6.72	1.13	1.23
2	G	720	ARG	C-O	-6.72	1.15	1.24
2	B	882	PRO	C-O	-6.72	1.15	1.24
2	B	358	ARG	C-O	-6.71	1.15	1.24
7	U	19	LEU	C-O	-6.71	1.15	1.24
2	D	821	TYR	C-O	-6.71	1.15	1.24
2	B	849	SER	C-O	-6.71	1.17	1.24
2	B	897	ASP	C-O	-6.70	1.16	1.23
2	F	216	TYR	CA-C	-6.70	1.46	1.53
2	B	830	PRO	C-O	-6.69	1.15	1.24
2	C	824	ILE	C-O	-6.68	1.16	1.24
2	H	250	PRO	N-CA	-6.68	1.38	1.47
5	O	93	ALA	CA-CB	-6.68	1.42	1.53
2	G	299	ARG	C-O	-6.68	1.15	1.23
2	C	616	PHE	C-O	-6.67	1.15	1.23
1	4	15	SER	C-O	-6.67	1.15	1.24
2	B	457	SER	CA-CB	-6.67	1.44	1.53
2	B	911	ALA	CA-CB	-6.67	1.42	1.53
2	F	211	PRO	N-CA	-6.67	1.38	1.47
2	H	296	ALA	C-O	-6.67	1.15	1.24
7	T	215	PRO	C-O	-6.67	1.14	1.23
2	C	822	PRO	C-O	-6.66	1.15	1.24
2	E	747	TYR	C-O	-6.66	1.15	1.24
2	A	52	PRO	CA-CB	-6.66	1.44	1.53
2	C	342	THR	CA-C	-6.66	1.43	1.52
2	C	729	VAL	C-O	-6.66	1.16	1.24
2	C	776	ARG	C-O	-6.65	1.17	1.24
4	N	186	VAL	CA-C	-6.65	1.44	1.52
2	C	372	PRO	C-O	-6.64	1.15	1.24
2	C	335	VAL	C-O	-6.64	1.15	1.23
2	G	264	ASN	C-O	-6.63	1.18	1.24
2	B	904	PRO	C-O	-6.63	1.15	1.24
2	C	269	ALA	CA-C	-6.63	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	733	ASN	C-O	-6.62	1.15	1.24
2	J	917	PRO	C-O	-6.62	1.15	1.24
2	C	756	VAL	C-O	-6.62	1.17	1.23
2	D	116	TYR	C-O	-6.62	1.15	1.24
2	L	208	PRO	C-O	-6.61	1.15	1.24
2	H	793	PRO	N-CA	-6.61	1.38	1.47
1	8	17	PRO	N-CA	-6.60	1.38	1.47
2	E	793	PRO	N-CA	-6.60	1.38	1.47
2	E	732	CYS	C-O	-6.59	1.15	1.24
6	R	28	TRP	C-O	-6.59	1.15	1.24
2	G	372	PRO	N-CA	-6.59	1.38	1.47
6	S	24	ARG	C-O	-6.58	1.15	1.23
2	B	919	SER	CA-CB	-6.58	1.42	1.53
2	G	358	ARG	C-O	-6.57	1.16	1.24
2	L	218	LYS	C-O	-6.56	1.15	1.24
2	F	730	ALA	C-O	-6.55	1.16	1.23
2	G	379	ASN	C-O	-6.55	1.15	1.24
2	H	176	THR	C-N	-6.55	1.25	1.33
2	B	375	ARG	C-O	-6.55	1.16	1.24
2	A	539	PHE	C-O	-6.55	1.16	1.23
2	J	48	PRO	N-CA	-6.55	1.39	1.47
2	B	853	MET	CA-C	-6.54	1.46	1.53
2	K	310	ILE	C-O	-6.54	1.16	1.24
2	B	430	ILE	C-O	-6.53	1.16	1.24
2	E	914	LEU	C-O	-6.53	1.15	1.23
2	A	701	SER	CA-CB	-6.53	1.42	1.53
2	D	733	ASN	C-O	-6.53	1.15	1.24
5	O	119	GLN	C-O	-6.52	1.15	1.24
2	H	299	ARG	C-O	-6.52	1.15	1.23
2	C	440	ASN	C-O	-6.51	1.16	1.24
5	O	260	SER	CA-CB	-6.51	1.42	1.53
2	D	102	ASP	C-O	-6.51	1.15	1.24
2	B	901	ILE	C-O	-6.51	1.16	1.24
2	C	565	ILE	C-O	-6.50	1.16	1.24
2	D	732	CYS	C-O	-6.50	1.15	1.24
2	E	704	TRP	CA-C	-6.50	1.44	1.52
2	G	917	PRO	N-CA	-6.50	1.39	1.47
2	H	730	ALA	C-O	-6.49	1.15	1.24
2	A	52	PRO	C-O	-6.49	1.15	1.24
2	E	917	PRO	N-CA	-6.48	1.39	1.47
2	C	772	GLN	C-O	-6.48	1.16	1.24
2	F	217	ALA	CA-CB	-6.48	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	228	SER	CA-CB	-6.48	1.42	1.53
2	B	219	PRO	N-CA	-6.48	1.39	1.47
2	B	335	VAL	C-O	-6.47	1.17	1.24
2	F	270	PRO	CA-CB	-6.47	1.44	1.53
7	U	17	MET	C-O	-6.46	1.15	1.24
2	C	580	SER	CA-CB	-6.46	1.42	1.53
2	B	851	ASN	C-O	-6.46	1.15	1.24
2	F	111	PRO	N-CA	-6.46	1.39	1.47
2	F	817	ALA	CA-CB	-6.46	1.43	1.53
2	H	796	HIS	C-O	-6.46	1.15	1.24
2	A	793	PRO	C-O	-6.44	1.15	1.24
2	D	120	ALA	C-O	-6.43	1.16	1.23
2	E	709	ARG	C-N	-6.43	1.25	1.33
2	G	286	SER	CA-CB	-6.42	1.42	1.53
2	L	221	ASN	C-O	-6.41	1.16	1.24
2	E	708	ASP	C-O	-6.41	1.17	1.24
2	I	179	PRO	C-O	-6.41	1.15	1.24
2	I	142	LYS	C-N	6.41	1.37	1.33
2	L	181	PRO	N-CA	-6.41	1.39	1.47
6	S	26	PRO	C-O	-6.41	1.15	1.24
2	C	369	SER	C-O	-6.40	1.16	1.24
2	C	733	ASN	CA-C	-6.40	1.47	1.52
2	G	259	VAL	C-O	-6.40	1.16	1.24
2	B	662	PRO	N-CA	-6.40	1.39	1.47
2	B	850	SER	CA-CB	-6.40	1.42	1.53
2	L	705	PRO	C-O	-6.40	1.15	1.24
2	D	824	ILE	C-O	-6.39	1.16	1.24
2	J	117	SER	C-O	-6.39	1.16	1.24
2	C	592	PHE	C-O	-6.39	1.16	1.24
1	8	34	ALA	C-O	-6.38	1.16	1.23
2	F	392	PRO	N-CA	-6.38	1.39	1.47
2	A	817	ALA	C-O	-6.38	1.16	1.23
2	D	104	ARG	C-O	-6.38	1.16	1.24
2	F	775	SER	C-O	-6.38	1.16	1.24
2	J	872	HIS	C-O	-6.38	1.16	1.23
2	A	57	THR	C-O	-6.37	1.16	1.24
2	B	862	GLY	C-O	-6.37	1.15	1.23
2	G	919	SER	C-O	-6.37	1.16	1.24
2	C	736	LYS	C-O	-6.36	1.16	1.24
2	C	793	PRO	N-CA	-6.36	1.40	1.47
2	F	818	ASN	C-O	-6.35	1.16	1.24
2	D	208	PRO	N-CA	-6.35	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	T	7	THR	C-O	-6.35	1.16	1.24
2	C	816	PRO	C-O	-6.34	1.15	1.24
2	C	775	SER	C-O	-6.33	1.15	1.23
2	C	147	ALA	CA-CB	-6.33	1.45	1.54
2	A	5	SER	CA-CB	-6.32	1.44	1.53
2	C	759	SER	CA-CB	-6.32	1.42	1.53
2	D	728	ASN	C-O	-6.32	1.16	1.24
2	F	730	ALA	CA-CB	-6.32	1.44	1.53
2	J	438	ALA	C-O	-6.31	1.16	1.24
1	8	15	SER	CA-CB	-6.30	1.42	1.53
2	C	799	SER	CA-CB	-6.30	1.42	1.53
1	8	36	SER	CA-CB	-6.30	1.40	1.53
2	C	388	ASN	C-O	-6.29	1.16	1.24
2	C	590	ALA	C-O	-6.29	1.17	1.23
2	F	215	SER	C-O	-6.29	1.16	1.23
2	E	703	SER	C-O	-6.29	1.16	1.24
2	F	106	VAL	C-O	-6.29	1.16	1.24
2	J	219	PRO	CA-CB	-6.29	1.44	1.53
2	D	816	PRO	N-CA	-6.29	1.39	1.47
2	A	270	PRO	C-O	-6.28	1.15	1.24
2	B	332	ASN	C-O	-6.28	1.16	1.23
2	G	357	SER	CA-CB	-6.28	1.42	1.53
2	A	703	SER	CA-CB	-6.27	1.39	1.53
2	C	607	LEU	C-O	-6.27	1.16	1.24
2	J	448	SER	CA-C	-6.26	1.44	1.52
2	K	225	GLY	CA-C	-6.26	1.44	1.51
2	D	221	ASN	C-O	-6.26	1.16	1.24
7	T	215	PRO	N-CA	-6.26	1.39	1.47
2	B	333	ALA	C-O	-6.25	1.16	1.24
2	C	333	ALA	C-O	-6.25	1.16	1.23
2	B	444	SER	CA-CB	-6.25	1.43	1.53
2	E	94	LEU	C-O	-6.25	1.15	1.23
2	J	129	ALA	CA-CB	-6.24	1.43	1.53
2	F	729	VAL	C-O	-6.24	1.16	1.24
2	J	221	ASN	C-O	-6.23	1.16	1.23
2	B	679	PRO	N-CA	-6.22	1.40	1.47
2	G	333	ALA	C-O	-6.22	1.16	1.24
2	D	819	TYR	CA-C	-6.22	1.45	1.52
2	J	177	TYR	C-O	-6.22	1.16	1.24
2	F	726	GLY	C-O	-6.21	1.15	1.23
2	C	325	ALA	CA-CB	-6.21	1.43	1.53
2	G	250	PRO	N-CA	-6.21	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	60	ARG	C-O	-6.21	1.16	1.24
2	I	363	TRP	C-O	-6.20	1.16	1.23
2	C	296	ALA	CA-CB	-6.20	1.43	1.53
2	D	119	THR	C-O	-6.20	1.16	1.23
2	H	300	PRO	CA-CB	-6.20	1.47	1.54
2	D	801	PHE	C-O	-6.20	1.16	1.24
7	U	22	GLY	C-O	-6.20	1.12	1.23
2	F	278	PRO	C-O	-6.19	1.16	1.23
2	B	325	ALA	CA-CB	-6.19	1.44	1.53
2	C	448	SER	CA-CB	-6.19	1.43	1.53
2	E	48	PRO	C-O	-6.19	1.16	1.24
2	B	296	ALA	CA-CB	-6.18	1.43	1.53
2	B	372	PRO	C-O	-6.17	1.16	1.24
2	C	102	ASP	C-O	-6.17	1.16	1.23
2	H	793	PRO	C-O	-6.17	1.16	1.24
2	A	816	PRO	C-O	-6.17	1.16	1.23
2	G	306	ARG	C-O	-6.16	1.16	1.23
2	B	357	SER	CA-CB	-6.15	1.44	1.52
2	C	387	PRO	N-CA	-6.15	1.37	1.48
2	G	62	GLN	C-O	-6.15	1.16	1.24
2	A	540	PHE	CA-C	-6.15	1.44	1.52
2	B	351	ASP	CA-C	-6.14	1.46	1.53
2	E	733	ASN	C-O	-6.14	1.14	1.24
2	B	903	GLN	C-O	-6.14	1.16	1.24
2	E	819	TYR	CA-C	-6.14	1.45	1.52
2	E	914	LEU	CA-C	-6.14	1.44	1.52
2	H	178	GLN	C-O	-6.14	1.16	1.24
6	R	21	LEU	C-O	-6.13	1.16	1.23
2	F	651	TRP	C-O	-6.13	1.15	1.23
2	C	108	ASP	C-O	-6.13	1.16	1.23
2	B	904	PRO	N-CA	-6.13	1.39	1.47
6	R	33	GLN	C-O	-6.13	1.17	1.23
2	J	115	PRO	N-CA	-6.13	1.39	1.47
1	8	15	SER	C-O	-6.13	1.16	1.24
2	E	659	LYS	C-O	-6.13	1.16	1.24
2	J	101	PHE	C-O	-6.12	1.16	1.23
2	B	266	SER	CA-CB	-6.12	1.44	1.53
2	J	179	PRO	C-O	-6.12	1.16	1.24
2	F	277	LYS	CA-C	-6.12	1.46	1.53
2	H	215	SER	CA-CB	-6.11	1.43	1.53
2	G	918	PHE	C-O	-6.10	1.16	1.24
2	J	123	SER	CA-C	-6.10	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	270	PRO	N-CA	-6.10	1.39	1.47
2	H	298	ASN	C-O	-6.10	1.16	1.23
2	C	344	LEU	C-O	-6.10	1.15	1.23
2	D	114	LYS	C-O	-6.09	1.16	1.24
2	F	403	SER	CA-CB	-6.09	1.43	1.53
2	G	97	ALA	C-O	-6.09	1.15	1.23
2	C	581	VAL	CA-C	-6.09	1.45	1.52
2	I	920	ALA	C-O	-6.08	1.16	1.23
6	R	17	PHE	C-O	-6.08	1.16	1.24
2	D	111	PRO	C-O	-6.08	1.16	1.24
5	O	253	SER	CA-CB	-6.08	1.45	1.53
2	B	888	LEU	C-O	-6.08	1.17	1.23
2	F	296	ALA	CA-CB	-6.08	1.43	1.53
2	F	108	ASP	CA-CB	-6.08	1.48	1.53
7	U	20	ALA	CA-CB	-6.08	1.43	1.53
2	F	793	PRO	N-CA	-6.07	1.39	1.47
2	B	858	LEU	C-O	-6.07	1.16	1.24
2	F	288	ALA	CA-CB	-6.07	1.44	1.53
2	C	811	GLU	C-O	-6.06	1.16	1.24
2	G	143	VAL	CA-C	-6.06	1.45	1.52
2	A	51	ALA	CA-CB	-6.06	1.45	1.53
2	F	276	TYR	C-O	-6.06	1.16	1.24
2	G	366	ALA	CA-CB	-6.06	1.43	1.53
6	Q	17	PHE	C-O	-6.05	1.16	1.24
2	G	345	SER	C-N	-6.05	1.25	1.33
2	F	123	SER	C-O	-6.05	1.16	1.24
2	C	757	PRO	N-CA	-6.04	1.39	1.47
2	D	273	HIS	CA-C	-6.04	1.47	1.53
2	J	707	ASN	C-O	-6.04	1.16	1.24
2	H	221	ASN	C-O	-6.03	1.16	1.24
2	C	362	MET	C-O	-6.03	1.16	1.24
2	G	294	GLN	C-O	-6.03	1.16	1.24
2	K	216	TYR	C-O	-6.03	1.16	1.24
2	C	730	ALA	CA-C	-6.03	1.44	1.52
2	B	793	PRO	C-O	-6.03	1.16	1.24
2	C	179	PRO	C-O	-6.03	1.16	1.24
2	F	104	ARG	C-O	-6.02	1.17	1.24
2	C	807	PRO	C-O	-6.02	1.16	1.24
2	C	730	ALA	CA-CB	-6.02	1.43	1.53
2	H	129	ALA	CA-CB	-6.02	1.44	1.53
2	J	178	GLN	C-O	-6.02	1.16	1.24
2	J	317	SER	CA-CB	-6.02	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	392	PRO	N-CA	-6.02	1.40	1.47
2	G	712	THR	C-O	-6.02	1.16	1.24
2	D	122	ASN	CA-C	-6.02	1.44	1.52
2	H	127	LYS	C-O	-6.02	1.16	1.24
2	A	710	LEU	CA-C	-6.01	1.50	1.53
2	E	729	VAL	C-O	-6.01	1.17	1.24
2	H	176	THR	C-O	-6.01	1.16	1.24
2	B	343	GLU	C-O	-6.00	1.18	1.23
2	B	462	PRO	N-CA	-6.00	1.39	1.47
2	D	719	LYS	C-O	-6.00	1.16	1.24
2	E	818	ASN	C-O	-6.00	1.16	1.24
2	H	148	PRO	C-O	-6.00	1.16	1.24
2	C	700	SER	CA-CB	-6.00	1.44	1.53
2	F	709	ARG	CA-C	-6.00	1.44	1.52
2	H	294	GLN	C-O	-6.00	1.17	1.23
2	J	125	ALA	CA-CB	-5.99	1.44	1.53
2	C	603	LEU	C-O	-5.99	1.16	1.24
2	B	646	ALA	C-O	-5.99	1.15	1.23
2	C	34	ALA	CA-C	-5.99	1.44	1.52
2	K	299	ARG	CA-C	-5.99	1.45	1.52
2	L	148	PRO	C-O	-5.99	1.16	1.24
2	F	303	ILE	C-O	-5.98	1.17	1.24
2	J	439	ALA	CA-CB	-5.98	1.44	1.54
2	C	104	ARG	C-O	-5.98	1.16	1.24
2	C	307	ASP	C-O	-5.97	1.16	1.23
2	C	594	PRO	N-CA	-5.97	1.39	1.47
2	B	895	VAL	C-O	-5.97	1.17	1.24
2	E	657	LYS	C-O	-5.97	1.16	1.23
2	G	267	ILE	C-O	-5.97	1.17	1.24
2	B	889	LEU	C-O	-5.97	1.16	1.23
2	B	647	ALA	CA-CB	-5.96	1.44	1.53
2	E	46	ARG	C-O	-5.96	1.16	1.24
4	N	185	GLU	C-O	-5.95	1.16	1.23
2	B	455	PRO	N-CA	-5.95	1.39	1.47
2	E	706	GLY	C-O	-5.95	1.18	1.23
2	G	718	ILE	C-O	-5.95	1.17	1.24
2	H	301	ASN	C-O	-5.94	1.17	1.24
2	J	448	SER	C-N	-5.94	1.25	1.33
2	H	705	PRO	CA-CB	-5.94	1.45	1.53
2	J	100	TYR	C-O	-5.94	1.15	1.23
2	H	729	VAL	CA-C	-5.94	1.45	1.52
2	J	448	SER	C-O	-5.94	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	208	PRO	C-O	-5.94	1.16	1.24
2	I	843	MET	C-O	-5.93	1.16	1.23
2	C	585	SER	C-O	-5.93	1.16	1.23
2	K	306	ARG	C-O	-5.93	1.16	1.24
2	I	181	PRO	C-O	-5.93	1.16	1.24
2	B	651	TRP	C-O	-5.92	1.17	1.23
2	F	269	ALA	CA-CB	-5.92	1.44	1.53
2	D	736	LYS	C-O	-5.92	1.16	1.24
2	F	772	GLN	C-O	-5.92	1.16	1.24
2	C	269	ALA	CA-CB	-5.92	1.44	1.53
2	G	48	PRO	CA-CB	-5.92	1.44	1.53
2	G	337	LEU	C-O	-5.91	1.16	1.23
2	D	99	THR	C-N	-5.91	1.27	1.32
2	D	129	ALA	CA-CB	-5.91	1.44	1.53
2	D	107	LEU	C-O	-5.91	1.17	1.24
2	C	392	PRO	C-O	-5.91	1.16	1.23
2	K	219	PRO	CA-CB	-5.90	1.45	1.53
2	G	314	TYR	C-O	-5.90	1.15	1.23
2	G	58	THR	CA-C	-5.90	1.45	1.52
2	C	390	CYS	N-CA	5.89	1.52	1.45
2	F	649	ARG	C-O	-5.89	1.16	1.24
2	H	211	PRO	C-O	-5.88	1.14	1.23
2	B	670	PRO	C-O	-5.88	1.16	1.24
1	5	17	PRO	C-O	-5.88	1.16	1.24
2	H	812	GLY	CA-C	-5.88	1.45	1.52
2	B	314	TYR	C-O	-5.87	1.16	1.24
2	C	377	ILE	C-O	-5.87	1.18	1.24
2	F	126	PRO	C-O	-5.86	1.16	1.24
2	D	739	PHE	C-O	-5.86	1.16	1.23
2	H	816	PRO	C-O	-5.86	1.16	1.24
2	B	368	ASP	C-O	-5.86	1.17	1.24
2	H	273	HIS	CA-C	-5.86	1.45	1.52
7	T	4	GLU	C-O	-5.86	1.16	1.24
2	F	387	PRO	C-O	-5.85	1.16	1.24
2	F	295	ALA	CA-CB	-5.85	1.43	1.53
2	A	541	ALA	C-O	-5.85	1.16	1.24
2	B	862	GLY	C-N	-5.84	1.26	1.34
2	C	316	ASN	C-O	-5.84	1.17	1.24
2	A	622	ALA	CA-C	-5.84	1.45	1.52
2	C	115	PRO	C-O	-5.84	1.16	1.24
2	D	148	PRO	N-CA	-5.83	1.39	1.47
2	G	345	SER	C-O	-5.83	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	821	TYR	CA-C	-5.83	1.46	1.52
2	B	299	ARG	CA-C	-5.83	1.45	1.52
2	G	52	PRO	CA-C	-5.83	1.46	1.52
2	H	733	ASN	CA-C	-5.83	1.46	1.53
2	G	96	MET	C-O	-5.83	1.16	1.24
2	L	220	THR	C-N	-5.82	1.25	1.33
6	R	19	PRO	N-CA	-5.82	1.39	1.47
2	B	253	PRO	N-CA	-5.82	1.39	1.47
2	H	251	SER	CA-CB	-5.82	1.44	1.53
2	F	738	TRP	C-O	-5.82	1.16	1.23
2	J	44	LYS	C-O	-5.82	1.17	1.23
2	B	649	ARG	C-O	-5.81	1.17	1.24
2	C	121	TYR	C-O	-5.81	1.17	1.23
2	F	111	PRO	C-O	-5.81	1.16	1.24
2	G	376	ILE	C-O	-5.81	1.17	1.24
2	H	815	TYR	C-O	-5.81	1.16	1.24
2	I	132	PRO	C-O	-5.81	1.16	1.24
2	G	278	PRO	C-O	-5.80	1.17	1.23
2	J	321	MET	CA-C	-5.80	1.45	1.53
2	J	916	THR	C-O	-5.80	1.16	1.24
2	D	270	PRO	C-O	-5.80	1.16	1.24
6	S	47	PRO	N-CA	-5.80	1.40	1.47
2	E	312	LEU	C-O	-5.80	1.16	1.24
2	H	188	TRP	C-O	-5.80	1.16	1.24
2	J	173	ALA	CA-CB	-5.79	1.44	1.53
2	J	451	ALA	C-O	-5.79	1.16	1.24
2	G	329	SER	CA-C	-5.79	1.45	1.53
2	J	384	ASP	C-O	-5.79	1.17	1.24
2	F	208	PRO	N-CA	-5.79	1.40	1.47
2	A	820	PRO	CA-CB	-5.78	1.45	1.53
2	C	332	ASN	C-O	-5.78	1.16	1.24
2	F	300	PRO	CA-CB	-5.78	1.46	1.53
1	8	25	ILE	C-O	-5.78	1.17	1.24
2	K	270	PRO	C-O	-5.78	1.16	1.24
2	B	297	PRO	C-O	-5.78	1.16	1.23
2	C	434	GLU	C-O	-5.78	1.18	1.24
2	A	438	ALA	CA-CB	-5.77	1.43	1.53
2	B	287	SER	CA-CB	-5.77	1.44	1.53
5	O	194	ASP	C-O	-5.77	1.16	1.24
2	B	843	MET	C-O	-5.76	1.17	1.24
2	B	917	PRO	C-O	-5.76	1.16	1.24
2	E	148	PRO	N-CA	-5.76	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	306	ARG	C-O	-5.76	1.17	1.23
2	K	305	PHE	CA-C	-5.76	1.45	1.53
2	D	267	ILE	C-O	-5.76	1.16	1.23
2	D	725	GLU	C-O	-5.76	1.16	1.24
2	J	200	GLY	C-O	-5.76	1.16	1.23
2	B	912	VAL	C-O	-5.76	1.17	1.24
2	B	376	ILE	C-O	-5.75	1.17	1.24
2	B	819	TYR	C-O	-5.75	1.16	1.24
2	G	727	TYR	C-O	-5.75	1.16	1.24
2	F	817	ALA	C-O	-5.74	1.18	1.24
2	A	620	LEU	CA-C	-5.74	1.45	1.52
2	D	820	PRO	N-CA	-5.74	1.40	1.47
2	H	267	ILE	C-O	-5.74	1.16	1.24
2	B	482	ALA	CA-CB	-5.73	1.43	1.53
2	L	148	PRO	N-CA	-5.73	1.40	1.47
2	B	837	PHE	C-O	-5.73	1.16	1.24
2	I	917	PRO	N-CA	-5.73	1.40	1.47
2	G	728	ASN	C-O	-5.73	1.16	1.24
2	B	364	ASN	C-O	-5.72	1.16	1.24
2	F	815	TYR	CA-C	-5.72	1.45	1.52
2	H	299	ARG	CA-C	-5.72	1.46	1.53
2	A	295	ALA	CA-CB	-5.72	1.45	1.53
2	F	730	ALA	CA-C	-5.72	1.45	1.53
2	J	699	ASP	C-O	-5.72	1.16	1.24
2	H	249	LEU	CA-C	-5.71	1.45	1.52
2	F	199	ALA	CA-CB	-5.71	1.44	1.53
2	F	703	SER	C-O	-5.71	1.17	1.23
2	A	11	SER	C-O	-5.71	1.16	1.24
2	C	115	PRO	N-CA	-5.71	1.40	1.47
2	E	733	ASN	CA-C	-5.71	1.46	1.52
2	G	296	ALA	C-O	-5.71	1.17	1.24
2	J	392	PRO	N-CA	-5.70	1.40	1.47
2	L	223	LYS	C-N	-5.70	1.27	1.33
2	B	365	GLN	C-O	-5.70	1.16	1.23
2	A	8	PRO	N-CA	-5.70	1.40	1.47
1	5	25	ILE	CA-C	-5.70	1.45	1.52
2	H	131	ASN	C-O	-5.70	1.17	1.24
2	C	352	ALA	CA-C	-5.69	1.45	1.52
2	C	367	VAL	C-O	-5.69	1.17	1.24
2	E	314	TYR	C-O	-5.69	1.16	1.24
2	E	798	ASN	C-O	-5.69	1.16	1.24
2	A	820	PRO	C-O	-5.68	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	129	ALA	CA-CB	-5.67	1.44	1.53
2	E	825	GLY	CA-C	-5.67	1.47	1.52
2	H	211	PRO	N-CA	-5.67	1.40	1.47
5	O	92	LYS	C-O	-5.67	1.16	1.24
2	B	379	ASN	C-O	-5.67	1.16	1.23
1	4	18	PHE	CA-C	-5.67	1.47	1.53
2	B	342	THR	CA-C	-5.67	1.44	1.52
2	B	363	TRP	C-O	-5.67	1.16	1.24
2	E	919	SER	C-O	-5.66	1.16	1.24
2	J	256	PRO	C-O	-5.66	1.16	1.24
2	K	253	PRO	N-CA	-5.65	1.40	1.47
2	C	116	TYR	C-O	-5.65	1.16	1.23
2	L	219	PRO	N-CA	-5.65	1.40	1.47
2	G	698	PHE	C-O	-5.65	1.17	1.23
2	H	292	THR	C-O	-5.65	1.18	1.24
6	R	28	TRP	CA-C	-5.65	1.45	1.52
2	H	278	PRO	C-O	-5.64	1.17	1.23
2	G	178	GLN	C-O	-5.64	1.17	1.24
1	7	12	ARG	C-O	-5.64	1.16	1.24
2	C	337	LEU	C-O	-5.64	1.17	1.23
2	C	28	LEU	C-O	-5.64	1.16	1.24
2	B	891	VAL	C-O	-5.64	1.17	1.24
2	C	457	SER	CA-CB	-5.63	1.44	1.53
1	1	15	SER	C-O	-5.63	1.16	1.24
4	N	191	LYS	C-O	-5.63	1.17	1.24
2	A	543	LYS	C-O	-5.63	1.16	1.24
2	D	208	PRO	C-O	-5.63	1.16	1.24
2	G	175	LYS	C-O	-5.63	1.16	1.24
2	C	444	SER	CA-CB	-5.62	1.43	1.53
2	B	868	ALA	CA-CB	-5.62	1.44	1.53
2	G	333	ALA	CA-CB	-5.62	1.44	1.53
2	H	224	GLY	C-O	-5.62	1.16	1.24
2	H	816	PRO	N-CA	-5.62	1.40	1.47
2	J	698	PHE	C-O	-5.62	1.16	1.23
2	A	709	ARG	C-O	-5.62	1.16	1.24
2	J	125	ALA	C-O	-5.62	1.17	1.24
2	L	187	GLN	C-O	-5.62	1.16	1.24
2	C	114	LYS	C-O	-5.62	1.18	1.24
2	D	799	SER	CA-C	-5.62	1.45	1.52
2	C	603	LEU	CA-C	-5.62	1.45	1.52
2	D	738	TRP	C-O	-5.62	1.16	1.24
2	C	294	GLN	C-O	-5.61	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	798	ASN	CA-C	-5.61	1.45	1.52
4	N	173	MET	C-O	-5.61	1.16	1.23
2	H	304	GLY	C-O	-5.61	1.15	1.23
2	H	790	VAL	C-O	-5.61	1.17	1.24
2	L	706	GLY	C-O	-5.60	1.16	1.23
2	E	728	ASN	C-O	-5.60	1.17	1.23
2	G	97	ALA	CA-C	-5.60	1.45	1.52
2	G	914	LEU	CA-C	-5.60	1.47	1.53
2	F	115	PRO	N-CA	-5.60	1.40	1.47
2	F	297	PRO	CA-CB	-5.60	1.45	1.53
2	H	174	ASP	C-O	-5.59	1.17	1.24
2	A	297	PRO	CA-CB	-5.59	1.45	1.53
2	D	115	PRO	N-CA	-5.59	1.41	1.47
6	P	18	SER	CA-CB	-5.59	1.44	1.53
2	D	718	ILE	C-N	-5.58	1.25	1.33
2	J	455	PRO	N-CA	-5.58	1.40	1.47
2	A	705	PRO	CA-CB	-5.58	1.45	1.53
2	I	916	THR	C-O	-5.58	1.17	1.24
2	B	179	PRO	C-O	-5.58	1.16	1.24
2	A	215	SER	CA-CB	-5.58	1.44	1.53
2	H	226	GLN	C-O	-5.58	1.16	1.24
6	S	26	PRO	N-CA	-5.58	1.40	1.47
2	G	299	ARG	CA-C	-5.57	1.47	1.53
1	8	32	GLY	CA-C	-5.57	1.46	1.52
2	A	622	ALA	C-O	-5.57	1.18	1.23
2	B	358	ARG	C-N	-5.57	1.26	1.33
2	C	339	ASP	C-O	-5.57	1.17	1.24
2	F	702	VAL	C-O	-5.57	1.17	1.24
2	D	822	PRO	N-CA	-5.57	1.40	1.47
2	G	392	PRO	C-O	-5.56	1.16	1.23
2	C	329	SER	C-O	-5.56	1.17	1.24
2	A	538	LYS	C-O	-5.56	1.16	1.24
2	D	780	ASN	C-O	-5.56	1.17	1.24
2	B	906	ARG	C-O	-5.55	1.17	1.24
2	E	739	PHE	CA-C	-5.55	1.45	1.52
2	C	375	ARG	C-O	-5.54	1.17	1.24
2	E	793	PRO	C-O	-5.54	1.16	1.24
2	A	793	PRO	N-CA	-5.54	1.40	1.47
2	D	799	SER	C-O	-5.54	1.17	1.23
2	I	184	GLY	C-O	-5.54	1.20	1.24
2	G	288	ALA	CA-CB	-5.54	1.44	1.53
2	F	275	VAL	C-O	-5.54	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	885	GLU	C-O	-5.53	1.20	1.25
2	C	324	LEU	CA-C	-5.53	1.45	1.52
2	A	130	PRO	C-O	-5.53	1.16	1.24
2	H	269	ALA	C-O	-5.53	1.17	1.24
2	F	125	ALA	CA-C	-5.53	1.46	1.52
2	G	432	ALA	CA-CB	-5.53	1.44	1.53
2	J	147	ALA	C-O	-5.53	1.17	1.24
6	S	47	PRO	C-O	-5.53	1.17	1.23
2	H	259	VAL	C-O	-5.53	1.17	1.24
2	G	393	LEU	C-O	-5.53	1.16	1.24
2	B	854	SER	CA-CB	-5.52	1.45	1.52
2	F	108	ASP	CA-C	-5.52	1.47	1.53
2	C	598	ASN	C-O	-5.51	1.17	1.24
3	M	365	ALA	CA-C	-5.51	1.45	1.52
2	C	310	ILE	C-O	-5.51	1.16	1.24
2	D	125	ALA	CA-CB	-5.51	1.44	1.53
2	K	277	LYS	C-O	-5.51	1.17	1.24
2	A	822	PRO	N-CA	-5.50	1.40	1.47
2	J	132	PRO	C-O	-5.50	1.16	1.24
2	H	226	GLN	C-N	-5.50	1.26	1.33
2	G	377	ILE	C-O	-5.50	1.17	1.23
2	B	211	PRO	N-CA	-5.50	1.40	1.47
2	G	439	ALA	CA-CB	-5.50	1.45	1.54
2	G	908	VAL	C-O	-5.49	1.17	1.24
2	G	323	VAL	CA-C	-5.49	1.45	1.52
1	8	35	PHE	C-O	-5.48	1.17	1.24
2	J	49	THR	C-O	-5.48	1.17	1.23
2	G	313	MET	C-O	-5.48	1.17	1.24
2	E	662	PRO	CA-C	-5.48	1.46	1.53
2	F	258	ALA	CA-CB	-5.48	1.44	1.53
2	E	749	ILE	C-O	-5.47	1.18	1.24
5	O	90	GLU	C-O	-5.47	1.16	1.24
2	J	702	VAL	C-O	-5.47	1.17	1.24
7	T	6	PRO	N-CA	-5.47	1.41	1.47
2	G	277	LYS	CA-C	-5.47	1.46	1.52
2	I	136	LYS	C-O	-5.47	1.17	1.24
2	C	361	SER	CA-CB	-5.47	1.44	1.53
6	S	27	ALA	CA-CB	-5.46	1.46	1.53
2	I	131	ASN	C-O	-5.46	1.17	1.24
2	H	267	ILE	CA-C	-5.46	1.46	1.52
2	I	133	CYS	C-O	-5.46	1.16	1.23
2	J	112	SER	CA-CB	-5.46	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	181	PRO	C-O	-5.46	1.16	1.24
2	F	830	PRO	N-CA	-5.46	1.40	1.47
2	J	707	ASN	C-N	-5.46	1.26	1.33
5	O	260	SER	CA-C	-5.46	1.45	1.52
2	C	100	TYR	C-O	-5.46	1.16	1.23
2	A	707	ASN	C-O	-5.45	1.17	1.24
2	B	678	VAL	C-O	-5.45	1.17	1.24
2	F	219	PRO	C-O	-5.45	1.16	1.24
2	D	106	VAL	C-O	-5.45	1.18	1.24
2	C	341	ASN	CA-C	-5.44	1.46	1.53
2	C	359	TYR	C-O	-5.44	1.17	1.24
2	J	382	VAL	C-O	-5.44	1.18	1.24
2	G	361	SER	C-O	-5.44	1.17	1.24
2	B	686	TYR	C-O	-5.44	1.16	1.24
2	C	295	ALA	CA-CB	-5.44	1.44	1.53
2	C	713	PRO	C-O	-5.43	1.16	1.24
2	C	582	ARG	C-N	-5.43	1.26	1.33
2	C	799	SER	CA-C	-5.43	1.45	1.52
2	C	333	ALA	CA-C	-5.43	1.46	1.53
2	K	314	TYR	C-O	-5.43	1.16	1.23
1	5	15	SER	C-O	-5.43	1.16	1.24
2	B	676	GLY	C-N	-5.43	1.26	1.33
2	F	380	HIS	C-O	-5.42	1.16	1.24
2	J	46	ARG	C-O	-5.42	1.17	1.24
2	B	891	VAL	CA-C	-5.42	1.45	1.52
2	G	702	VAL	C-O	-5.42	1.17	1.24
1	4	17	PRO	CA-CB	-5.42	1.46	1.53
2	B	658	THR	C-O	-5.42	1.17	1.24
2	B	847	PRO	CA-CB	-5.42	1.46	1.53
2	J	450	VAL	CA-C	-5.40	1.45	1.52
6	P	22	THR	C-O	-5.40	1.17	1.24
2	L	179	PRO	CA-CB	-5.40	1.46	1.53
2	A	544	ASN	C-O	-5.40	1.17	1.24
2	A	705	PRO	N-CA	-5.40	1.40	1.47
2	J	148	PRO	C-O	-5.39	1.17	1.24
2	C	123	SER	C-O	-5.39	1.17	1.24
2	C	760	TYR	C-O	-5.39	1.17	1.24
2	H	176	THR	CA-C	-5.39	1.45	1.52
2	H	199	ALA	CA-CB	-5.39	1.45	1.53
5	O	118	VAL	C-O	-5.39	1.18	1.24
6	S	4	SER	CA-CB	-5.39	1.44	1.53
2	G	904	PRO	CA-CB	-5.39	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	U	21	ALA	CA-C	-5.39	1.45	1.52
2	K	217	ALA	C-O	-5.39	1.17	1.24
2	F	222	GLU	CA-C	-5.39	1.45	1.52
2	A	437	LEU	C-O	-5.38	1.17	1.24
2	C	581	VAL	C-O	-5.38	1.17	1.24
2	F	211	PRO	N-CD	-5.38	1.40	1.47
2	A	217	ALA	CA-CB	-5.37	1.46	1.52
2	B	353	LEU	C-O	-5.37	1.18	1.23
2	J	211	PRO	C-O	-5.37	1.17	1.24
2	B	441	LEU	C-O	-5.37	1.17	1.24
2	E	707	ASN	C-O	-5.37	1.17	1.24
2	F	302	TYR	C-O	-5.37	1.17	1.24
2	E	516	LEU	CA-C	-5.37	1.45	1.52
2	G	296	ALA	CA-C	-5.37	1.46	1.52
2	J	918	PHE	C-O	-5.37	1.17	1.24
2	D	126	PRO	C-O	-5.37	1.17	1.24
2	E	886	PRO	N-CA	-5.37	1.40	1.47
2	K	295	ALA	CA-CB	-5.37	1.44	1.53
2	B	842	THR	C-O	-5.36	1.17	1.24
2	C	330	GLN	C-O	-5.36	1.17	1.24
2	F	777	GLN	C-O	-5.36	1.17	1.23
2	C	342	THR	C-N	-5.36	1.25	1.33
2	F	298	ASN	C-O	-5.36	1.17	1.24
2	J	215	SER	C-O	-5.36	1.17	1.24
2	C	317	SER	C-O	-5.35	1.17	1.24
2	D	362	MET	C-N	-5.35	1.26	1.33
2	J	180	GLU	C-O	-5.35	1.17	1.24
2	D	186	THR	CA-C	-5.35	1.46	1.52
2	C	183	VAL	C-O	-5.35	1.17	1.24
2	C	32	ALA	CA-C	-5.34	1.47	1.52
2	D	256	PRO	C-O	-5.34	1.17	1.24
1	0	21	PRO	C-O	-5.34	1.18	1.23
2	H	295	ALA	C-O	-5.34	1.18	1.23
2	H	730	ALA	CA-CB	-5.34	1.44	1.53
2	D	727	TYR	C-O	-5.34	1.17	1.23
2	G	310	ILE	CA-C	-5.34	1.46	1.52
2	K	269	ALA	CA-CB	-5.34	1.45	1.53
2	B	848	PHE	C-O	-5.34	1.16	1.23
2	G	338	GLN	C-O	-5.34	1.17	1.24
2	E	881	ASP	CA-C	-5.34	1.46	1.53
2	G	347	GLN	C-O	-5.34	1.17	1.24
2	E	97	ALA	CA-CB	-5.33	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	728	ASN	C-O	-5.33	1.17	1.24
2	G	715	GLU	C-O	-5.33	1.17	1.24
2	G	321	MET	C-O	-5.33	1.18	1.23
2	D	130	PRO	C-O	-5.33	1.17	1.24
2	G	53	THR	C-N	-5.32	1.26	1.33
2	G	287	SER	CA-CB	-5.32	1.44	1.53
2	G	380	HIS	C-N	-5.32	1.26	1.33
2	H	807	PRO	CA-CB	-5.32	1.48	1.53
2	A	542	ILE	C-O	-5.32	1.17	1.24
2	C	256	PRO	C-O	-5.32	1.17	1.23
2	B	370	TYR	CA-C	-5.32	1.46	1.52
2	H	199	ALA	C-O	-5.32	1.17	1.23
2	E	916	THR	C-O	-5.30	1.17	1.24
2	A	218	LYS	C-O	-5.30	1.17	1.24
2	A	324	LEU	CA-C	-5.30	1.46	1.52
2	C	112	SER	CA-CB	-5.30	1.46	1.53
2	H	296	ALA	CA-C	-5.30	1.46	1.52
7	U	23	ALA	CA-C	-5.30	1.45	1.52
2	C	454	LEU	C-O	-5.30	1.17	1.24
2	G	380	HIS	CA-C	-5.29	1.45	1.52
2	B	825	GLY	C-O	-5.29	1.16	1.23
2	G	367	VAL	C-O	-5.29	1.17	1.24
2	H	818	ASN	CA-C	-5.29	1.45	1.52
2	C	321	MET	C-O	-5.29	1.19	1.24
2	A	298	ASN	C-O	-5.28	1.17	1.23
2	E	50	VAL	CA-C	-5.28	1.46	1.52
2	C	816	PRO	N-CA	-5.28	1.40	1.47
2	H	197	LYS	CA-C	-5.28	1.47	1.53
5	O	192	GLY	C-O	-5.28	1.16	1.24
2	C	704	TRP	CA-C	-5.28	1.46	1.52
2	C	833	THR	C-O	-5.28	1.16	1.24
2	J	220	THR	C-O	-5.28	1.17	1.24
2	H	256	PRO	C-O	-5.28	1.17	1.24
2	C	351	ASP	CA-C	-5.27	1.45	1.52
2	J	451	ALA	CA-CB	-5.27	1.44	1.53
2	B	190	SER	CA-CB	-5.27	1.44	1.53
6	S	38	SER	CA-CB	-5.27	1.44	1.53
2	C	773	PRO	CA-CB	-5.27	1.46	1.53
2	C	773	PRO	N-CA	-5.27	1.40	1.47
2	B	257	LYS	C-O	-5.27	1.17	1.24
2	D	730	ALA	CA-C	-5.26	1.46	1.52
2	J	708	ASP	C-O	-5.26	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	228	SER	CA-CB	-5.26	1.45	1.53
2	E	189	ASN	C-O	-5.25	1.17	1.24
2	J	434	GLU	C-O	-5.25	1.17	1.24
2	B	841	ARG	C-O	-5.25	1.15	1.23
2	F	266	SER	CA-CB	-5.25	1.45	1.53
2	H	728	ASN	C-O	-5.25	1.17	1.24
2	B	838	LEU	C-O	-5.25	1.17	1.23
2	C	179	PRO	N-CD	-5.25	1.40	1.47
2	C	345	SER	C-O	-5.25	1.17	1.24
2	E	310	ILE	C-O	-5.25	1.17	1.24
2	G	713	PRO	C-O	-5.25	1.17	1.24
2	L	186	THR	C-O	-5.25	1.17	1.24
5	O	216	LEU	C-O	-5.25	1.17	1.24
5	O	91	SER	CA-C	-5.24	1.46	1.52
5	O	93	ALA	C-O	-5.24	1.17	1.24
7	U	17	MET	CA-C	-5.24	1.45	1.52
1	5	20	GLY	C-O	-5.23	1.16	1.23
2	D	228	SER	CA-CB	-5.23	1.44	1.53
2	D	778	VAL	C-O	-5.23	1.17	1.24
2	C	601	SER	CA-CB	-5.23	1.44	1.53
2	J	172	TYR	CA-C	-5.23	1.48	1.53
2	K	296	ALA	C-O	-5.23	1.17	1.24
2	L	706	GLY	CA-C	-5.23	1.45	1.52
2	B	834	GLN	C-O	-5.23	1.17	1.23
2	E	832	LEU	C-O	-5.22	1.17	1.24
2	J	403	SER	CA-CB	-5.22	1.44	1.53
2	K	303	ILE	C-N	-5.22	1.26	1.33
2	D	735	THR	CA-C	-5.22	1.46	1.52
2	C	237	THR	N-CA	5.22	1.52	1.46
2	B	372	PRO	N-CA	-5.22	1.40	1.47
2	B	307	ASP	C-O	-5.21	1.17	1.23
2	B	324	LEU	C-O	-5.21	1.17	1.24
2	B	439	ALA	C-O	-5.21	1.18	1.24
2	C	148	PRO	N-CA	-5.21	1.40	1.47
2	J	705	PRO	CA-CB	-5.21	1.46	1.53
2	C	703	SER	C-O	-5.20	1.16	1.23
2	E	49	THR	C-O	-5.20	1.17	1.24
2	C	277	LYS	CA-C	-5.20	1.46	1.52
2	J	261	TYR	C-O	-5.20	1.17	1.23
7	U	20	ALA	CA-C	-5.20	1.45	1.52
2	F	391	PHE	C-O	-5.20	1.17	1.24
2	K	211	PRO	C-O	-5.20	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	222	GLU	C-N	-5.20	1.26	1.33
6	Q	21	LEU	C-O	-5.20	1.17	1.23
2	B	133	CYS	C-O	-5.19	1.18	1.24
2	B	653	PHE	C-O	-5.19	1.17	1.24
2	A	267	ILE	C-O	-5.19	1.17	1.24
2	C	372	PRO	N-CA	-5.19	1.40	1.47
2	B	840	ASP	C-O	-5.19	1.17	1.23
2	F	388	ASN	C-O	-5.19	1.17	1.24
2	G	263	GLU	C-O	-5.19	1.16	1.24
2	C	744	LEU	C-O	-5.19	1.17	1.24
2	F	273	HIS	C-O	-5.19	1.17	1.24
1	4	19	MET	C-O	-5.18	1.14	1.23
2	B	325	ALA	C-O	-5.18	1.17	1.23
2	J	383	GLU	C-O	-5.18	1.18	1.23
2	B	350	LEU	CA-C	-5.18	1.45	1.52
2	B	920	ALA	CA-CB	-5.18	1.45	1.53
2	G	380	HIS	CA-CB	-5.17	1.44	1.53
2	A	278	PRO	N-CA	-5.17	1.40	1.47
6	Q	19	PRO	N-CA	-5.17	1.40	1.47
6	S	44	PRO	N-CA	-5.16	1.40	1.47
2	C	720	ARG	C-O	-5.16	1.17	1.24
2	C	756	VAL	CA-C	-5.16	1.47	1.52
2	A	325	ALA	C-O	-5.16	1.17	1.24
2	K	277	LYS	CA-C	-5.15	1.47	1.52
2	H	817	ALA	C-O	-5.15	1.17	1.24
2	F	776	ARG	C-O	-5.15	1.17	1.24
2	H	123	SER	CA-C	-5.15	1.45	1.52
2	B	451	ALA	CA-CB	-5.15	1.44	1.53
2	C	358	ARG	C-O	-5.15	1.18	1.24
2	F	210	LEU	C-O	-5.15	1.17	1.24
2	K	296	ALA	CA-CB	-5.15	1.45	1.53
2	F	708	ASP	C-O	-5.14	1.17	1.24
2	E	822	PRO	N-CA	-5.14	1.41	1.47
2	K	256	PRO	C-O	-5.14	1.17	1.24
2	F	732	CYS	C-O	-5.14	1.17	1.24
2	E	661	THR	C-O	-5.14	1.17	1.24
2	E	698	PHE	C-O	-5.14	1.17	1.24
2	L	224	GLY	CA-C	-5.14	1.46	1.52
2	C	568	SER	CA-CB	-5.13	1.45	1.53
2	A	795	GLN	C-O	-5.13	1.17	1.24
2	F	793	PRO	CA-CB	-5.13	1.46	1.53
2	B	351	ASP	C-N	-5.13	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	188	TRP	CA-C	-5.13	1.45	1.52
2	C	114	LYS	CA-C	-5.13	1.47	1.52
7	T	213	LEU	C-O	-5.12	1.17	1.24
2	J	130	PRO	N-CA	-5.12	1.40	1.47
2	D	209	MET	C-O	-5.12	1.17	1.24
2	C	730	ALA	C-O	-5.12	1.17	1.24
2	G	345	SER	CA-C	-5.12	1.45	1.52
2	F	828	ALA	CA-CB	-5.12	1.45	1.53
2	L	223	LYS	CA-C	-5.12	1.46	1.52
2	G	730	ALA	C-O	-5.12	1.16	1.23
2	C	820	PRO	N-CA	-5.11	1.40	1.47
2	G	334	VAL	C-O	-5.11	1.18	1.24
2	F	122	ASN	C-O	-5.11	1.17	1.24
2	B	270	PRO	N-CA	-5.11	1.40	1.47
2	C	582	ARG	C-O	-5.11	1.17	1.24
2	L	708	ASP	C-O	-5.11	1.17	1.24
2	A	5	SER	CA-C	-5.11	1.46	1.52
2	C	327	GLN	CA-C	-5.11	1.46	1.52
6	Q	17	PHE	CA-C	-5.10	1.46	1.52
1	5	25	ILE	C-N	-5.10	1.26	1.33
2	A	325	ALA	CA-CB	-5.10	1.44	1.53
2	C	611	THR	C-O	-5.10	1.17	1.23
2	B	652	SER	C-O	-5.10	1.17	1.24
2	D	117	SER	CA-CB	-5.10	1.44	1.53
2	B	660	GLU	C-O	-5.09	1.17	1.24
2	C	113	PHE	C-O	-5.09	1.17	1.24
2	F	221	ASN	C-O	-5.09	1.17	1.24
2	B	836	LYS	C-O	-5.09	1.18	1.24
2	B	337	LEU	C-O	-5.09	1.18	1.24
2	C	748	ASN	C-O	-5.09	1.17	1.24
2	E	792	LEU	CA-C	-5.09	1.46	1.52
2	H	170	PRO	C-O	-5.09	1.17	1.24
6	S	16	VAL	C-O	-5.09	1.18	1.24
2	C	278	PRO	N-CA	-5.09	1.40	1.48
2	B	439	ALA	CA-CB	-5.09	1.45	1.53
2	A	297	PRO	C-O	-5.08	1.17	1.24
2	B	322	GLY	C-O	-5.08	1.17	1.23
2	F	708	ASP	C-N	-5.08	1.26	1.33
2	K	211	PRO	N-CA	-5.08	1.40	1.47
7	T	5	ILE	C-O	-5.08	1.18	1.24
2	B	836	LYS	CA-C	-5.08	1.48	1.53
2	B	848	PHE	CA-C	-5.08	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	262	ALA	CA-CB	-5.08	1.45	1.53
2	G	432	ALA	C-O	-5.08	1.17	1.24
2	C	831	SER	C-O	-5.08	1.18	1.24
2	F	773	PRO	CA-CB	-5.08	1.47	1.53
2	G	94	LEU	C-O	-5.08	1.15	1.23
2	G	274	LEU	C-O	-5.08	1.17	1.24
2	G	370	TYR	C-O	-5.08	1.18	1.24
2	F	647	ALA	CA-CB	-5.08	1.44	1.53
2	C	130	PRO	C-O	-5.07	1.17	1.24
2	B	345	SER	C-O	-5.07	1.17	1.24
2	E	915	ARG	C-O	-5.07	1.18	1.23
2	C	828	ALA	CA-CB	-5.07	1.45	1.53
2	B	302	TYR	C-O	-5.06	1.17	1.23
2	D	129	ALA	CA-C	-5.06	1.46	1.52
2	L	172	TYR	C-O	-5.06	1.17	1.24
2	F	704	TRP	CA-C	-5.06	1.46	1.52
2	A	296	ALA	CA-CB	-5.06	1.45	1.53
2	A	51	ALA	C-O	-5.05	1.16	1.23
2	C	439	ALA	CA-CB	-5.05	1.45	1.54
2	D	736	LYS	CA-C	-5.05	1.46	1.52
2	E	796	HIS	C-O	-5.05	1.17	1.24
2	B	685	PHE	C-O	-5.05	1.18	1.24
2	B	877	THR	C-O	-5.05	1.16	1.23
2	C	596	ALA	CA-C	-5.05	1.46	1.52
2	B	793	PRO	N-CA	-5.05	1.40	1.47
2	C	709	ARG	C-O	-5.05	1.18	1.23
2	B	873	ALA	CA-CB	-5.04	1.45	1.53
2	G	176	THR	C-O	-5.04	1.17	1.24
2	B	900	ARG	C-O	-5.04	1.15	1.23
2	E	914	LEU	C-N	-5.04	1.27	1.33
2	H	297	PRO	CA-CB	-5.04	1.46	1.53
2	C	170	PRO	C-O	-5.04	1.17	1.24
2	B	300	PRO	CA-CB	-5.04	1.46	1.53
2	I	360	PHE	C-O	-5.04	1.17	1.24
2	K	218	LYS	C-O	-5.04	1.17	1.24
2	D	218	LYS	C-O	-5.03	1.17	1.24
2	H	179	PRO	C-O	-5.03	1.17	1.24
2	D	127	LYS	CA-C	-5.03	1.46	1.52
2	G	270	PRO	N-CA	-5.03	1.40	1.47
2	I	179	PRO	CA-CB	-5.03	1.46	1.53
2	F	118	GLY	CA-C	-5.03	1.45	1.52
1	1	14	GLY	CA-C	-5.03	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	325	ALA	CA-C	-5.03	1.45	1.53
2	I	365	GLN	CA-C	-5.03	1.46	1.52
2	B	643	ARG	C-O	-5.03	1.17	1.23
2	C	343	GLU	C-O	-5.02	1.17	1.24
2	G	349	MET	CA-C	-5.02	1.46	1.52
2	G	701	SER	C-N	-5.02	1.26	1.33
2	C	361	SER	C-O	-5.02	1.17	1.24
2	D	129	ALA	C-O	-5.02	1.17	1.24
2	E	917	PRO	CA-CB	-5.02	1.46	1.53
2	G	320	ASN	C-O	-5.02	1.18	1.23
2	G	323	VAL	CA-CB	-5.02	1.47	1.54
2	K	313	MET	C-O	-5.02	1.17	1.24
2	E	816	PRO	CA-CB	-5.01	1.46	1.53
2	G	324	LEU	C-O	-5.01	1.17	1.24
2	J	242	VAL	C-O	-5.01	1.17	1.24
2	J	255	GLU	N-CA	5.01	1.50	1.46
2	C	612	ASN	C-O	-5.01	1.16	1.23
2	K	305	PHE	C-O	-5.01	1.16	1.23
2	K	288	ALA	CA-CB	-5.01	1.46	1.53
2	D	142	LYS	N-CA	5.01	1.52	1.46
2	H	220	THR	C-O	-5.00	1.17	1.23
2	C	569	SER	C-O	-5.00	1.17	1.24
2	D	818	ASN	C-O	-5.00	1.17	1.24
2	B	871	ALA	C-O	-5.00	1.17	1.23
2	J	132	PRO	N-CA	-5.00	1.41	1.47
5	O	115	SER	CA-CB	-5.00	1.45	1.53

All (2493) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	816	PRO	N-CA-CB	-27.54	80.19	103.32
2	D	816	PRO	N-CA-CB	-25.96	75.99	103.25
2	E	917	PRO	N-CA-CB	-25.31	76.67	103.25
2	B	886	PRO	CA-N-CD	23.94	145.51	112.00
2	H	220	THR	CB-CA-C	-23.50	69.60	109.07
2	E	48	PRO	N-CA-CB	-23.04	79.06	103.25
2	I	132	PRO	N-CA-CB	-23.00	79.10	103.25
2	G	917	PRO	N-CA-CB	-22.77	79.34	103.25
2	F	211	PRO	N-CA-CB	-22.32	79.81	103.25
2	G	300	PRO	CB-CA-C	-21.39	83.85	111.23
2	D	270	PRO	CB-CA-C	-21.25	76.49	111.56
2	E	148	PRO	N-CA-CB	-21.17	81.02	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	484	PRO	CB-CA-C	-21.02	81.23	110.88
2	J	220	THR	CB-CA-C	-20.90	68.83	110.42
2	J	917	PRO	N-CA-CB	-20.83	81.38	103.25
2	C	300	PRO	N-CA-CB	-20.45	81.78	103.25
2	J	256	PRO	N-CA-CB	-20.33	81.90	103.25
2	H	256	PRO	N-CA-CB	-20.28	81.96	103.25
2	B	881	ASP	CB-CA-C	-20.21	77.23	109.37
2	L	205	ASP	CB-CA-C	-19.98	76.67	109.03
2	J	132	PRO	N-CA-CB	-19.90	82.36	103.25
2	B	819	TYR	CB-CA-C	-19.78	71.20	110.17
2	H	297	PRO	CB-CA-C	-19.39	79.56	111.56
2	C	116	TYR	CB-CA-C	-19.39	77.80	109.80
2	G	58	THR	CB-CA-C	-19.33	74.00	109.37
1	5	23	ASN	CB-CA-C	-19.25	72.12	110.42
2	F	820	PRO	CB-CA-C	-19.23	88.61	111.11
2	C	149	PHE	CB-CA-C	-19.20	72.22	110.42
2	I	181	PRO	CB-CA-C	-19.17	79.93	111.56
2	C	773	PRO	CB-CA-C	-18.92	87.17	111.39
2	B	904	PRO	N-CA-CB	-18.86	83.45	103.25
2	G	53	THR	CB-CA-C	-18.79	77.98	109.55
2	A	130	PRO	N-CA-CB	-18.51	83.81	103.25
2	B	208	PRO	N-CA-CB	-18.46	83.87	103.25
2	H	705	PRO	CB-CA-C	-18.44	81.13	111.56
2	C	705	PRO	CB-CA-C	-18.41	81.19	111.56
2	C	392	PRO	CB-CA-C	-18.28	87.54	111.12
2	C	29	VAL	N-CA-C	-18.27	92.21	111.58
2	A	807	PRO	N-CA-CB	-17.48	84.90	103.25
2	F	181	PRO	N-CA-CB	-17.47	84.90	103.25
2	D	130	PRO	N-CA-CB	-17.45	84.93	103.25
2	D	739	PHE	N-CA-C	-17.42	84.54	111.02
2	C	344	LEU	N-CA-C	-17.31	91.48	113.12
6	R	31	VAL	N-CA-C	-17.30	93.54	111.88
2	K	297	PRO	N-CA-CB	-17.20	85.19	103.25
2	D	114	LYS	CB-CA-C	-17.01	95.13	110.44
2	F	300	PRO	CB-CA-C	-16.87	89.80	111.39
2	E	820	PRO	N-CA-CB	-16.86	87.17	103.19
2	L	705	PRO	N-CA-C	-16.79	86.58	113.78
2	D	148	PRO	N-CA-CB	-16.74	85.68	103.25
2	B	886	PRO	N-CA-CB	-16.60	85.82	103.25
2	E	662	PRO	CB-CA-C	-16.50	83.57	110.96
2	F	735	THR	CB-CA-C	-16.45	81.84	109.48
2	F	793	PRO	CB-CA-C	-16.38	84.53	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	820	PRO	N-CA-CB	-16.34	89.79	103.36
2	I	917	PRO	N-CA-CB	-16.34	86.09	103.25
2	J	173	ALA	N-CA-C	-16.31	94.20	114.75
2	D	739	PHE	CB-CA-C	-16.20	88.32	111.65
2	J	114	LYS	CB-CA-C	-16.12	93.89	110.33
2	G	97	ALA	N-CA-C	-16.09	93.01	113.12
2	C	583	PHE	N-CA-C	-16.07	91.45	110.41
2	G	48	PRO	CB-CA-C	-15.99	87.08	110.75
2	E	705	PRO	N-CA-CB	-15.94	86.51	103.25
2	K	211	PRO	N-CA-CB	-15.92	86.53	103.25
1	8	11	PRO	N-CA-CB	-15.86	85.55	103.00
2	F	820	PRO	N-CA-C	-15.82	84.77	110.55
2	D	208	PRO	N-CA-CB	-15.78	86.68	103.25
2	D	140	LYS	N-CA-C	-15.73	93.57	111.82
2	C	109	ARG	CB-CA-C	-15.65	77.26	109.65
2	E	189	ASN	CB-CA-C	-15.45	79.67	110.42
2	B	643	ARG	CB-CA-C	-15.43	76.07	111.09
2	G	268	GLU	CB-CA-C	-15.43	94.02	116.54
2	B	670	PRO	CB-CA-C	-15.37	86.20	111.56
2	K	300	PRO	N-CA-CB	-15.34	87.15	103.25
2	L	220	THR	CB-CA-C	-15.27	86.77	110.90
2	H	174	ASP	CB-CA-C	-15.21	80.15	110.42
2	A	270	PRO	CB-CA-C	-15.04	86.75	111.56
2	H	183	VAL	N-CA-C	-14.93	97.15	113.43
2	G	723	ASP	CB-CA-C	-14.90	81.21	111.91
2	K	253	PRO	N-CA-CB	-14.90	87.61	103.25
2	H	253	PRO	N-CA-CB	-14.85	87.66	103.25
2	B	350	LEU	N-CA-C	-14.80	94.88	113.23
2	C	741	ILE	N-CA-C	-14.76	99.95	111.90
2	H	219	PRO	N-CA-CB	-14.69	89.68	103.34
5	O	261	TYR	CB-CA-C	14.69	139.65	110.42
2	F	270	PRO	N-CA-CB	-14.68	87.84	103.25
5	O	217	GLN	CB-CA-C	-14.68	93.02	111.22
2	F	300	PRO	N-CA-CB	-14.52	91.12	103.32
2	G	713	PRO	N-CA-CB	-14.47	88.06	103.25
1	5	21	THR	CB-CA-C	-14.44	81.66	109.66
2	C	776	ARG	CB-CA-C	-14.35	81.41	114.41
2	F	130	PRO	CB-CA-C	-14.32	93.09	111.71
2	B	473	THR	CB-CA-C	-14.29	83.56	109.71
2	J	119	THR	CB-CA-C	-14.18	82.21	110.42
2	H	181	PRO	CB-CA-C	-14.16	88.20	111.56
2	G	327	GLN	N-CA-C	-14.11	95.98	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	847	PRO	CB-CA-C	-14.05	93.24	111.23
2	F	121	TYR	CB-CA-C	13.95	133.21	110.88
2	B	270	PRO	N-CA-CB	-13.93	88.62	103.25
2	J	48	PRO	CB-CA-C	-13.93	92.70	110.95
2	L	139	ASN	CB-CA-C	-13.91	83.78	111.60
1	8	16	ARG	CB-CA-C	-13.86	82.87	110.17
2	J	228	SER	N-CA-C	-13.81	92.68	114.09
2	J	170	PRO	CB-CA-C	-13.80	88.78	111.56
2	J	705	PRO	N-CA-CB	-13.77	88.79	103.25
2	F	216	TYR	CB-CA-C	-13.76	93.68	111.70
2	B	170	PRO	N-CA-CB	-13.75	88.81	103.25
2	C	388	ASN	CB-CA-C	13.75	126.71	109.80
2	H	132	PRO	N-CA-CB	-13.70	88.87	103.25
2	K	250	PRO	CB-CA-C	-13.62	91.40	113.06
2	F	130	PRO	N-CA-CB	-13.62	91.05	103.17
2	L	181	PRO	CB-CA-C	-13.60	89.11	111.56
2	E	804	TYR	CB-CA-C	-13.56	83.44	110.42
2	G	725	GLU	N-CA-C	-13.54	81.97	110.80
2	B	472	ASN	N-CA-C	-13.53	96.09	112.59
2	E	793	PRO	N-CA-C	-13.45	84.76	112.47
2	G	57	THR	CB-CA-C	-13.41	88.13	109.72
2	E	728	ASN	CB-CA-C	-13.39	86.75	109.65
2	L	705	PRO	CB-CA-C	-13.36	90.62	113.20
2	A	705	PRO	N-CA-CB	-13.34	89.25	103.25
2	G	256	PRO	N-CA-C	13.32	139.91	112.47
2	C	148	PRO	N-CA-CB	-13.31	89.27	103.25
2	G	351	ASP	CB-CA-C	-13.31	90.32	110.95
2	F	773	PRO	CB-CA-C	-13.29	93.54	111.21
2	F	100	TYR	CB-CA-C	-13.19	87.38	109.80
4	N	171	PRO	N-CA-CB	-13.16	89.43	103.25
2	B	278	PRO	N-CA-CB	-13.15	89.44	103.25
2	F	644	ASN	CB-CA-C	-13.12	94.48	111.40
2	H	270	PRO	CB-CA-C	-13.08	94.59	111.46
2	B	670	PRO	N-CA-CB	-13.07	89.53	103.25
2	K	219	PRO	N-CA-CB	-13.07	89.52	103.25
2	F	705	PRO	N-CA-C	-13.07	85.55	112.47
2	H	301	ASN	CB-CA-C	-13.01	89.32	110.14
2	J	440	ASN	N-CA-C	-13.00	98.37	112.93
2	C	773	PRO	N-CA-CB	-12.95	92.44	103.32
2	B	148	PRO	N-CA-CB	-12.93	89.67	103.25
2	D	100	TYR	CB-CA-C	-12.93	97.52	116.53
2	G	922	ASN	CB-CA-C	12.90	128.74	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	206	THR	CB-CA-C	12.83	129.42	110.04
2	F	256	PRO	N-CA-CB	-12.83	89.78	103.25
1	4	17	PRO	N-CA-CB	-12.82	89.78	103.25
2	C	100	TYR	CB-CA-C	-12.77	84.17	109.33
2	A	791	THR	CB-CA-C	-12.76	91.79	110.16
1	1	11	PRO	CB-CA-C	-12.76	94.90	111.23
2	H	130	PRO	N-CA-C	12.67	138.57	112.47
2	B	658	THR	CB-CA-C	-12.66	91.33	110.95
2	E	820	PRO	CB-CA-C	12.66	128.69	110.85
2	B	922	ASN	N-CA-C	-12.64	96.01	113.20
2	D	119	THR	CB-CA-C	-12.63	86.46	112.99
2	G	715	GLU	CB-CA-C	-12.58	85.38	110.42
2	C	781	THR	CB-CA-C	-12.57	89.97	110.84
2	B	181	PRO	N-CA-C	12.54	138.31	112.47
2	A	813	GLN	CB-CA-C	-12.54	87.14	109.71
2	C	223	LYS	N-CA-C	-12.52	97.32	112.59
2	A	816	PRO	CB-CA-C	-12.50	95.39	111.39
2	F	297	PRO	N-CD-CG	-12.48	84.47	103.20
2	H	222	GLU	CB-CA-C	-12.45	85.65	110.42
2	J	247	PHE	CB-CA-C	12.43	131.27	109.65
2	H	250	PRO	N-CA-CB	-12.41	90.22	103.25
2	H	257	LYS	CB-CA-C	-12.39	88.20	109.02
2	H	705	PRO	N-CA-C	-12.38	86.96	112.47
2	C	445	PHE	CB-CA-C	-12.34	87.98	110.56
2	A	13	MET	N-CA-C	-12.30	93.76	113.19
2	B	152	THR	CB-CA-C	-12.30	85.94	110.42
1	1	17	PRO	N-CA-CB	-12.29	90.34	103.25
2	F	392	PRO	N-CA-CB	-12.30	90.34	103.25
2	B	482	ALA	N-CA-C	12.28	127.26	108.96
2	L	212	CYS	CB-CA-C	-12.28	88.76	109.38
2	J	434	GLU	CB-CA-C	-12.24	86.07	110.42
7	T	215	PRO	CB-CA-C	-12.18	95.88	111.71
2	B	176	THR	N-CA-C	-12.17	98.84	112.72
2	I	182	GLN	CB-CA-C	-12.17	86.20	110.42
2	A	264	ASN	CB-CA-C	12.17	134.63	110.42
2	J	254	ASN	CB-CA-C	-12.17	89.19	110.72
2	B	263	GLU	CB-CA-C	-12.15	95.39	110.94
2	E	749	ILE	CB-CA-C	-12.12	96.59	110.41
2	F	164	THR	CB-CA-C	-12.09	86.36	110.42
2	D	270	PRO	N-CA-CB	-12.04	90.61	103.25
2	F	136	LYS	CB-CA-C	-12.01	95.57	110.94
2	F	253	PRO	N-CA-CB	-11.99	90.66	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	919	SER	N-CA-C	11.99	124.05	108.34
6	S	52	THR	CB-CA-C	11.96	130.33	109.75
2	F	173	ALA	N-CA-C	-11.96	98.79	113.50
2	E	822	PRO	CB-CA-C	-11.93	100.55	111.40
2	F	119	THR	CB-CA-C	-11.91	86.56	109.66
2	C	612	ASN	CB-CA-C	-11.90	92.48	111.28
6	Q	19	PRO	N-CA-CB	-11.86	90.80	103.25
2	E	815	TYR	CB-CA-C	-11.85	86.82	110.17
2	B	253	PRO	N-CA-CB	-11.85	90.81	103.25
2	C	600	ALA	N-CA-C	-11.85	96.25	112.12
2	F	301	ASN	CB-CA-C	-11.84	94.42	111.23
2	B	179	PRO	N-CA-CB	-11.84	90.82	103.25
2	C	713	PRO	N-CA-CB	-11.80	90.86	103.25
2	C	272	THR	CB-CA-C	-11.80	86.94	110.42
2	E	701	SER	N-CA-CB	-11.80	95.13	111.65
2	J	410	GLN	N-CA-C	-11.79	95.51	111.54
2	E	820	PRO	N-CA-C	-11.78	91.17	111.32
2	A	9	GLN	CB-CA-C	-11.78	86.98	110.42
2	B	216	TYR	CB-CA-C	-11.77	86.37	109.68
2	G	913	TYR	CB-CA-C	-11.76	89.65	109.53
2	G	371	ASP	CB-CA-C	-11.75	91.85	109.60
2	H	813	GLN	CB-CA-C	-11.75	89.71	113.80
2	G	62	GLN	CB-CA-C	-11.74	90.93	110.19
5	O	90	GLU	CB-CA-C	-11.73	89.84	109.55
2	K	314	TYR	CB-CA-C	-11.68	92.14	111.41
2	G	916	THR	CA-CB-OG1	-11.61	92.18	109.60
2	B	853	MET	CB-CA-C	-11.57	99.93	114.40
2	G	300	PRO	N-CA-CB	-11.50	93.34	103.35
2	K	247	PHE	CA-CB-CG	-11.50	102.30	113.80
2	G	910	GLU	CB-CG-CD	11.49	132.13	112.60
2	B	452	LEU	N-CA-C	-11.48	99.27	113.97
2	F	820	PRO	CA-N-CD	11.46	128.05	112.00
2	J	384	ASP	CB-CA-C	-11.45	91.16	110.16
2	A	820	PRO	N-CA-C	-11.43	88.92	112.47
2	G	241	ASP	CA-C-N	-11.41	110.92	121.65
2	G	241	ASP	C-N-CA	-11.41	110.92	121.65
1	8	26	GLY	N-CA-C	-11.40	100.19	115.36
1	4	19	MET	N-CA-CB	-11.40	91.08	110.79
2	G	300	PRO	N-CD-CG	-11.39	86.12	103.20
7	T	215	PRO	N-CA-C	-11.37	92.53	110.95
2	I	143	VAL	N-CA-C	11.36	121.56	107.70
2	D	212	CYS	CB-CA-C	-11.33	87.87	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	0	21	PRO	N-CA-C	-11.32	102.90	114.68
2	E	797	ASN	CB-CA-C	-11.31	94.19	111.73
2	C	797	ASN	CB-CA-C	-11.31	87.36	111.11
2	L	223	LYS	CB-CA-C	-11.30	87.94	110.42
2	A	216	TYR	CB-CA-C	-11.29	92.26	111.23
2	C	599	THR	CB-CA-C	-11.29	97.33	111.22
2	C	384	ASP	CB-CA-C	11.26	132.83	110.42
2	A	440	ASN	CB-CA-C	11.26	129.82	110.68
2	L	208	PRO	N-CA-CB	-11.24	91.45	103.25
2	G	279	ASP	CB-CA-C	-11.22	91.24	109.75
2	G	344	LEU	N-CA-C	-11.21	98.14	114.39
2	F	387	PRO	N-CA-CB	-11.19	91.50	103.25
2	L	207	THR	CB-CA-C	-11.19	99.01	110.65
2	F	263	GLU	CB-CA-C	-11.19	84.80	111.65
2	H	258	ALA	CA-C-N	-11.19	112.33	122.96
2	H	258	ALA	C-N-CA	-11.19	112.33	122.96
2	J	705	PRO	CB-CA-C	-11.18	93.11	111.56
2	C	719	LYS	CB-CA-C	-11.18	88.18	110.42
5	O	196	PHE	CA-C-O	-11.17	107.92	120.54
6	S	44	PRO	N-CA-CB	-11.17	91.53	103.25
2	C	99	THR	CB-CA-C	-11.09	92.67	111.31
2	C	300	PRO	N-CD-CG	-11.07	86.59	103.20
2	G	137	ASP	CB-CA-C	-11.07	92.60	110.86
2	J	219	PRO	N-CA-C	-11.03	89.75	112.47
2	G	348	LEU	N-CA-C	-11.01	100.10	114.31
2	G	914	LEU	CB-CA-C	-11.01	100.64	114.40
2	A	297	PRO	N-CA-CB	-11.01	91.69	103.25
2	C	699	ASP	CA-C-N	-10.98	106.48	122.40
2	C	699	ASP	C-N-CA	-10.98	106.48	122.40
2	I	842	THR	CB-CA-C	-10.98	88.99	112.82
2	B	158	ASN	N-CA-C	-10.96	100.40	113.88
2	B	127	LYS	N-CA-C	-10.95	100.24	112.72
2	D	124	LEU	N-CA-C	-10.95	100.12	113.15
2	K	250	PRO	N-CA-C	-10.94	97.82	113.47
2	J	255	GLU	N-CA-C	10.92	117.79	108.07
2	C	738	TRP	N-CA-C	-10.92	93.11	109.81
2	J	181	PRO	CA-N-CD	10.91	127.28	112.00
2	C	582	ARG	CB-CA-C	-10.90	89.07	112.63
2	H	286	SER	N-CA-C	-10.89	99.72	113.23
2	J	390	CYS	CB-CA-C	-10.87	94.45	111.74
2	G	297	PRO	CB-CA-C	-10.87	93.63	111.56
2	E	796	HIS	CA-CB-CG	10.86	124.66	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	216	TYR	CB-CA-C	-10.85	87.34	113.15
2	J	219	PRO	N-CA-CB	-10.81	91.90	103.25
2	J	130	PRO	N-CA-CB	-10.81	91.90	103.25
2	J	164	THR	CB-CA-C	-10.80	88.92	110.42
2	A	627	TYR	CA-C-N	10.79	133.33	119.84
2	A	627	TYR	C-N-CA	10.79	133.33	119.84
2	C	811	GLU	CB-CA-C	-10.79	91.95	109.75
2	J	440	ASN	CB-CA-C	-10.79	92.15	110.81
2	C	818	ASN	CB-CA-C	-10.76	89.01	110.42
1	5	27	THR	CB-CA-C	10.74	131.29	110.57
2	I	417	ASN	N-CA-C	-10.69	99.63	111.07
2	B	822	PRO	N-CA-CB	-10.66	92.06	103.25
2	E	44	LYS	O-C-N	-10.63	110.66	121.93
2	F	186	THR	CB-CA-C	10.61	131.53	110.42
2	L	226	GLN	CB-CA-C	-10.60	96.84	111.89
2	B	133	CYS	CB-CA-C	-10.58	101.17	114.40
2	C	294	GLN	CB-CA-C	-10.55	91.83	114.10
2	A	818	ASN	CB-CA-C	-10.54	94.99	111.74
2	C	170	PRO	N-CA-C	10.53	134.16	112.47
2	F	174	ASP	CB-CA-C	-10.52	89.49	110.42
2	B	318	THR	CB-CA-C	-10.51	89.50	110.42
2	C	350	LEU	N-CA-C	-10.51	97.06	111.56
2	A	793	PRO	CB-CA-C	-10.50	94.23	111.56
2	G	434	GLU	CB-CA-C	-10.49	87.28	110.67
2	G	431	PHE	CB-CA-C	-10.49	85.90	110.02
2	F	815	TYR	CB-CA-C	-10.48	89.53	110.17
2	F	185	GLN	N-CA-C	-10.47	88.51	110.80
2	G	911	ALA	N-CA-CB	-10.45	92.83	110.49
2	C	739	PHE	N-CA-C	-10.44	99.84	112.58
2	B	917	PRO	N-CA-CB	-10.43	92.30	103.25
2	J	380	HIS	CB-CA-C	-10.42	95.22	111.17
2	B	137	ASP	CB-CA-C	-10.42	96.02	112.07
2	J	442	TRP	N-CA-C	-10.40	100.66	113.97
2	B	148	PRO	CB-CA-C	-10.39	94.42	111.56
2	C	273	HIS	CA-CB-CG	10.38	124.18	113.80
2	F	384	ASP	CB-CA-C	-10.38	87.56	110.19
4	N	193	ASP	CB-CA-C	-10.37	90.39	110.10
2	F	155	ASN	CB-CA-C	-10.36	91.99	109.50
2	E	709	ARG	CB-CA-C	10.35	127.25	110.90
2	B	859	THR	CB-CA-C	-10.34	92.05	109.53
2	E	881	ASP	CB-CA-C	-10.34	93.97	108.86
6	S	19	PRO	CA-C-O	-10.30	108.85	123.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	13	HIS	CB-CA-C	-10.29	95.03	110.67
2	C	307	ASP	CB-CA-C	-10.29	95.41	109.71
2	E	733	ASN	N-CA-C	-10.27	98.33	112.30
2	J	211	PRO	N-CA-CB	-10.25	92.48	103.25
2	G	245	GLN	CB-CA-C	-10.25	92.84	109.75
2	G	903	GLN	CB-CG-CD	-10.25	95.18	112.60
2	F	738	TRP	N-CA-C	-10.25	99.05	112.68
2	G	292	THR	CB-CA-C	-10.25	93.24	110.56
2	C	577	ASP	CB-CA-C	10.21	126.22	109.07
2	F	179	PRO	N-CA-CB	-10.19	92.55	103.25
2	D	410	GLN	CB-CA-C	10.18	130.68	110.42
2	E	314	TYR	CA-C-N	10.17	135.18	120.95
2	E	314	TYR	C-N-CA	10.17	135.18	120.95
2	A	811	GLU	CB-CA-C	-10.14	90.01	109.37
3	M	449	THR	CA-C-N	10.12	140.18	121.97
3	M	449	THR	C-N-CA	10.12	140.18	121.97
2	F	278	PRO	N-CA-C	-10.11	96.21	111.57
2	B	653	PHE	CB-CA-C	-10.09	90.35	110.42
2	C	600	ALA	CB-CA-C	-10.07	94.55	111.26
2	C	257	LYS	CB-CA-C	-10.04	90.43	110.42
2	G	345	SER	CA-C-N	-10.04	104.61	120.88
2	G	345	SER	C-N-CA	-10.04	104.61	120.88
2	C	292	THR	CB-CA-C	10.02	126.91	110.88
3	M	367	VAL	CB-CA-C	-10.02	92.36	111.40
2	I	134	GLU	CA-C-O	-10.02	112.57	119.68
2	G	713	PRO	N-CD-CG	-10.01	88.18	103.20
2	F	776	ARG	CB-CA-C	-10.01	90.50	110.42
2	A	8	PRO	N-CA-CB	-10.01	92.75	103.25
3	M	366	ASP	CA-CB-CG	10.00	122.60	112.60
2	B	827	THR	N-CA-C	-9.99	96.11	110.59
2	D	102	ASP	CB-CA-C	-9.99	90.54	110.42
2	B	195	ALA	N-CA-C	-9.98	97.97	111.54
2	G	384	ASP	CB-CA-C	-9.93	87.19	110.02
2	H	273	HIS	CA-CB-CG	9.92	123.72	113.80
2	B	830	PRO	N-CA-C	9.92	132.90	112.47
2	J	426	GLU	CB-CA-C	9.90	130.12	110.42
1	4	18	PHE	CA-CB-CG	9.89	123.69	113.80
2	E	48	PRO	N-CD-CG	-9.89	88.36	103.20
2	H	187	GLN	CB-CA-C	9.89	130.10	110.42
2	H	208	PRO	N-CA-CB	-9.86	95.04	103.32
2	D	273	HIS	CA-CB-CG	9.86	123.66	113.80
2	E	739	PHE	N-CA-C	-9.86	89.81	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	211	PRO	N-CA-CB	-9.85	92.90	103.25
2	E	592	PHE	CA-C-N	-9.85	107.41	121.20
2	E	592	PHE	C-N-CA	-9.85	107.41	121.20
2	B	432	ALA	N-CA-CB	-9.84	96.31	111.46
2	H	168	ASN	CB-CA-C	-9.83	90.85	110.42
2	L	219	PRO	N-CA-C	-9.81	92.27	112.47
2	B	181	PRO	N-CA-CB	-9.79	92.97	103.25
1	0	22	ARG	CB-CA-C	-9.75	91.02	110.42
5	O	258	ARG	N-CA-C	-9.74	98.14	111.87
2	A	4	PRO	N-CA-C	-9.73	92.42	112.47
2	A	291	LEU	N-CA-C	-9.73	100.37	110.97
2	C	709	ARG	CB-CA-C	9.71	127.43	111.50
2	G	302	TYR	CA-C-O	-9.70	110.32	120.80
2	J	167	THR	CB-CA-C	-9.70	88.72	110.07
2	F	819	TYR	CA-C-N	-9.67	109.21	120.13
2	F	819	TYR	C-N-CA	-9.67	109.21	120.13
2	H	195	ALA	N-CA-C	-9.67	101.49	113.28
2	C	597	HIS	CB-CA-C	9.66	126.16	110.90
2	G	356	ARG	N-CA-C	-9.65	101.63	113.50
2	F	380	HIS	CB-CA-C	-9.65	91.77	110.11
2	B	886	PRO	CB-CA-C	-9.64	95.65	111.56
2	J	115	PRO	CA-C-N	-9.63	106.93	122.34
2	J	115	PRO	C-N-CA	-9.63	106.93	122.34
2	B	829	VAL	N-CA-CB	-9.63	97.73	111.21
2	D	132	PRO	N-CA-CB	-9.62	93.15	103.25
2	F	735	THR	CA-CB-OG1	-9.62	95.17	109.60
2	C	348	LEU	N-CA-C	-9.61	100.40	113.18
2	G	347	GLN	CB-CG-CD	-9.61	96.26	112.60
1	8	19	MET	N-CA-C	-9.61	100.48	112.88
2	I	142	LYS	CB-CA-C	-9.60	96.89	110.34
2	D	101	PHE	CA-CB-CG	9.57	123.37	113.80
2	E	197	LYS	CA-C-N	9.56	135.04	122.51
2	E	197	LYS	C-N-CA	9.56	135.04	122.51
2	G	435	ILE	CB-CA-C	-9.54	95.64	111.29
2	H	270	PRO	N-CA-C	-9.53	96.27	111.14
2	B	348	LEU	N-CA-C	-9.52	101.43	113.43
2	K	263	GLU	CB-CA-C	-9.52	97.72	111.23
2	C	603	LEU	N-CA-C	-9.51	98.17	113.19
2	L	175	LYS	N-CA-C	-9.49	102.28	113.38
2	B	158	ASN	CB-CA-C	-9.48	93.67	109.03
2	L	179	PRO	CA-N-CD	9.48	125.27	112.00
2	G	341	ASN	CB-CA-C	-9.47	97.91	112.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	278	PRO	CB-CA-C	-9.46	98.92	111.12
2	I	180	GLU	CB-CA-C	-9.46	91.54	110.17
2	H	130	PRO	N-CA-CB	-9.45	93.33	103.25
2	J	211	PRO	CB-CA-C	-9.43	96.00	111.56
4	N	182	LYS	CB-CA-C	-9.42	91.67	110.42
2	C	440	ASN	N-CA-C	-9.41	100.89	111.71
2	K	256	PRO	CB-CA-C	-9.40	96.05	111.56
2	D	735	THR	CB-CA-C	-9.39	92.71	109.70
2	C	177	TYR	CB-CA-C	-9.39	92.27	110.10
2	G	717	GLU	CB-CA-C	-9.38	93.50	109.72
6	P	19	PRO	N-CA-C	-9.37	93.17	112.47
2	F	773	PRO	N-CA-CB	-9.37	94.63	103.34
2	A	797	ASN	CB-CA-C	-9.36	91.76	110.30
2	B	453	TYR	CB-CA-C	-9.36	98.68	111.88
2	B	302	TYR	CA-C-O	-9.34	111.61	120.95
2	D	737	ASP	CB-CA-C	9.33	128.99	110.42
2	H	793	PRO	CB-CA-C	-9.33	96.17	111.56
2	J	458	TYR	N-CA-C	-9.33	99.12	113.02
2	G	278	PRO	CB-CA-C	-9.31	99.44	111.46
2	J	420	ASP	CB-CA-C	-9.30	98.22	111.80
2	C	134	GLU	CB-CA-C	9.28	126.88	110.36
2	C	572	ASN	N-CA-C	-9.28	95.56	110.32
2	E	701	SER	CB-CA-C	-9.28	95.39	111.35
2	B	466	THR	CB-CA-C	-9.28	92.59	112.63
2	B	923	ALA	N-CA-CB	-9.28	96.48	110.40
2	C	581	VAL	CA-C-N	-9.27	104.93	122.73
2	C	581	VAL	C-N-CA	-9.27	104.93	122.73
2	F	211	PRO	N-CD-CG	-9.27	89.30	103.20
5	O	197	PHE	CB-CA-C	-9.27	93.69	109.72
2	D	179	PRO	N-CA-CB	9.26	113.18	103.00
2	C	308	ASN	CB-CA-C	9.25	128.02	110.35
2	E	49	THR	CB-CA-C	9.25	128.84	110.42
2	G	346	TYR	N-CA-C	-9.25	99.31	111.24
2	J	917	PRO	N-CA-C	9.25	131.53	112.47
5	O	259	ASP	N-CA-C	-9.25	96.43	110.30
2	C	161	GLN	CB-CA-C	-9.24	92.03	110.42
2	I	812	GLY	N-CA-C	9.24	121.41	112.08
2	E	735	THR	CB-CA-C	-9.23	92.76	109.38
2	J	102	ASP	CB-CA-C	-9.23	97.73	111.77
2	B	176	THR	CB-CA-C	-9.23	95.71	110.94
2	J	318	THR	CB-CA-C	-9.23	92.06	110.42
6	S	49	ASN	CB-CA-C	9.23	128.78	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	219	PRO	N-CD-CG	-9.22	89.38	103.20
2	C	737	ASP	CB-CA-C	-9.21	96.72	111.28
2	J	101	PHE	CB-CA-C	-9.21	95.06	109.61
7	T	6	PRO	CB-CA-C	-9.20	97.13	110.75
2	F	272	THR	CB-CA-C	-9.19	92.13	110.42
2	K	207	THR	CB-CA-C	9.19	124.98	109.82
2	J	415	ASP	CB-CA-C	-9.19	96.46	110.88
2	D	780	ASN	CB-CA-C	-9.17	92.17	110.42
2	H	181	PRO	N-CA-C	-9.17	93.58	112.47
2	J	205	ASP	CB-CA-C	-9.16	92.19	110.42
2	H	207	THR	CB-CA-C	-9.15	98.67	109.47
2	L	176	THR	N-CA-CB	-9.13	95.07	110.49
2	E	733	ASN	CB-CA-C	-9.12	95.89	110.85
2	B	447	TYR	N-CA-C	-9.12	91.37	110.80
2	B	148	PRO	N-CA-C	9.10	131.22	112.47
2	F	297	PRO	N-CA-CB	-9.10	93.70	103.25
2	H	182	GLN	CB-CA-C	-9.10	92.32	110.42
2	C	388	ASN	CA-CB-CG	-9.09	103.51	112.60
1	8	17	PRO	CB-CA-C	9.09	126.56	111.56
2	A	226	GLN	N-CA-CB	-9.09	100.89	111.79
2	I	186	THR	CB-CA-C	9.08	128.49	110.42
2	H	208	PRO	CA-N-CD	9.07	124.69	112.00
2	G	917	PRO	N-CD-CG	-9.06	89.61	103.20
2	B	793	PRO	CB-CA-C	-9.06	96.62	111.56
2	C	837	PHE	CA-CB-CG	9.05	122.85	113.80
2	D	725	GLU	CB-CA-C	-9.04	92.43	110.42
2	C	756	VAL	N-CA-C	-9.04	99.20	108.15
2	H	221	ASN	CB-CA-C	-9.04	92.43	110.42
2	B	672	PHE	N-CA-C	-9.04	100.01	112.30
2	J	448	SER	CA-C-N	-9.04	108.45	122.37
2	J	448	SER	C-N-CA	-9.04	108.45	122.37
2	B	468	PRO	N-CA-CB	-9.03	93.77	103.25
2	F	178	GLN	CB-CA-C	-9.03	92.38	110.17
2	C	153	ASN	CA-C-N	-9.03	111.84	122.22
2	C	153	ASN	C-N-CA	-9.03	111.84	122.22
2	C	375	ARG	CB-CA-C	-9.03	92.86	109.29
2	G	325	ALA	CB-CA-C	-9.02	94.04	112.99
2	B	917	PRO	N-CA-C	-9.02	93.89	112.47
2	C	231	THR	CB-CA-C	9.02	126.14	109.54
2	F	195	ALA	N-CA-C	-9.01	99.78	110.41
2	J	416	ASP	N-CA-C	-9.01	91.61	110.80
2	H	811	GLU	CB-CA-C	-8.99	99.23	112.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	256	PRO	CB-CA-C	-8.98	96.74	111.56
2	A	53	THR	CB-CA-C	-8.97	91.39	109.79
2	F	130	PRO	N-CA-C	8.97	125.48	110.95
2	B	674	TYR	CB-CA-C	-8.97	92.58	110.42
2	I	416	ASP	CB-CA-C	-8.96	101.33	114.87
2	F	816	PRO	N-CD-CG	-8.96	89.77	103.20
2	D	206	THR	CB-CA-C	-8.93	92.66	110.42
2	I	362	MET	N-CA-C	-8.91	91.82	110.80
2	K	305	PHE	CA-C-N	-8.90	110.02	122.93
2	K	305	PHE	C-N-CA	-8.90	110.02	122.93
2	L	709	ARG	CA-C-N	8.89	134.90	120.94
2	L	709	ARG	C-N-CA	8.89	134.90	120.94
2	F	102	ASP	CB-CA-C	-8.88	98.13	111.72
2	C	102	ASP	CB-CA-C	-8.88	97.50	111.17
5	O	114	ASN	CB-CA-C	-8.87	90.85	110.19
2	B	378	GLU	CA-C-O	-8.87	111.70	120.92
2	C	204	LYS	CB-CA-C	-8.87	93.87	111.60
4	N	178	PRO	CB-CA-C	-8.87	96.93	111.56
2	E	807	PRO	N-CA-C	-8.86	94.22	112.47
2	C	108	ASP	CB-CA-C	-8.85	96.37	111.41
2	G	47	ASN	CB-CA-C	-8.84	96.26	109.26
2	F	130	PRO	N-CD-CG	-8.83	89.95	103.20
2	H	144	ARG	CB-CA-C	-8.80	92.91	110.42
2	F	207	THR	CB-CA-C	-8.80	96.46	108.87
2	C	705	PRO	N-CA-C	-8.79	94.37	112.47
2	J	443	ARG	N-CA-C	-8.78	101.67	111.07
2	F	383	GLU	CB-CG-CD	-8.77	97.69	112.60
2	H	270	PRO	N-CA-CB	-8.77	95.50	103.31
5	O	255	THR	CA-C-N	-8.77	111.10	123.03
5	O	255	THR	C-N-CA	-8.77	111.10	123.03
2	C	568	SER	CB-CA-C	-8.76	104.45	117.07
2	C	130	PRO	N-CA-CB	-8.76	94.05	103.25
2	B	336	ASP	CB-CA-C	-8.76	94.70	109.50
2	B	481	VAL	CA-C-N	-8.76	107.51	121.87
2	B	481	VAL	C-N-CA	-8.76	107.51	121.87
2	G	429	ASN	CA-CB-CG	-8.75	103.85	112.60
2	A	821	TYR	N-CA-C	-8.74	98.79	109.72
2	E	705	PRO	CB-CA-C	-8.74	97.14	111.56
2	B	446	LEU	N-CA-C	-8.74	99.69	110.88
2	L	189	ASN	CB-CA-C	-8.74	93.03	110.42
2	H	179	PRO	CB-CA-C	-8.74	97.14	111.56
2	I	812	GLY	CA-C-O	-8.73	116.00	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	749	ILE	N-CA-CB	-8.73	101.00	112.34
2	L	180	GLU	CB-CA-C	-8.72	99.36	110.96
2	C	731	GLN	CB-CA-C	8.70	127.73	110.42
2	F	302	TYR	CA-C-O	-8.70	110.77	120.69
2	B	300	PRO	N-CA-C	-8.69	94.57	112.47
2	B	877	THR	CB-CA-C	-8.69	93.68	109.15
1	1	13	HIS	CA-CB-CG	8.68	122.48	113.80
5	O	256	ILE	N-CA-C	8.68	121.23	108.65
2	H	300	PRO	N-CA-CB	-8.67	93.22	102.67
2	J	202	VAL	N-CA-CB	-8.66	101.13	111.00
2	B	885	GLU	C-N-CD	-8.65	89.53	125.00
2	G	913	TYR	CA-C-O	-8.65	111.19	121.05
2	B	332	ASN	CB-CA-C	-8.65	96.41	109.90
2	K	303	ILE	CA-C-N	-8.64	110.97	122.03
2	K	303	ILE	C-N-CA	-8.64	110.97	122.03
2	H	250	PRO	N-CA-C	-8.63	94.68	112.47
2	F	115	PRO	N-CA-C	-8.62	94.70	112.47
2	D	123	SER	CA-C-N	-8.61	105.10	122.31
2	D	123	SER	C-N-CA	-8.61	105.10	122.31
2	B	351	ASP	CB-CA-C	-8.61	94.28	114.16
2	C	616	PHE	CA-C-N	8.60	135.13	123.00
2	C	616	PHE	C-N-CA	8.60	135.13	123.00
2	H	161	GLN	CB-CA-C	-8.59	96.42	110.77
2	J	161	GLN	CB-CA-C	-8.59	99.22	111.85
6	P	19	PRO	N-CA-CB	-8.58	94.24	103.25
2	B	170	PRO	CB-CA-C	-8.57	97.42	111.56
2	B	484	PRO	N-CA-C	-8.56	103.65	114.35
2	J	219	PRO	N-CD-CG	-8.56	90.36	103.20
2	J	242	VAL	CA-C-O	-8.56	112.78	121.59
2	J	255	GLU	CB-CG-CD	8.55	127.14	112.60
2	B	842	THR	CB-CA-C	-8.55	93.40	110.42
2	G	381	GLY	CA-C-N	-8.55	112.58	123.19
2	G	381	GLY	C-N-CA	-8.55	112.58	123.19
2	C	714	ASN	CB-CA-C	-8.55	97.40	111.68
2	H	212	CYS	CB-CA-C	-8.54	92.22	109.55
2	C	293	GLN	CB-CA-C	-8.54	93.44	110.42
6	P	17	PHE	N-CA-CB	8.53	124.90	110.49
2	H	148	PRO	N-CA-CB	-8.53	94.30	103.25
1	3	21	THR	CA-C-O	-8.52	112.43	120.95
2	E	727	TYR	O-C-N	-8.50	112.20	122.48
2	E	44	LYS	CA-C-N	-8.49	110.22	123.12
2	E	44	LYS	C-N-CA	-8.49	110.22	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	156	LYS	N-CA-C	-8.49	101.31	112.34
6	S	52	THR	N-CA-C	-8.49	100.48	113.89
2	B	375	ARG	N-CA-C	-8.48	101.98	111.14
2	J	413	THR	CB-CA-C	8.48	127.29	110.42
2	C	211	PRO	N-CA-CB	-8.46	94.37	103.25
2	J	168	ASN	CB-CA-C	-8.45	94.95	112.44
2	G	325	ALA	N-CA-CB	-8.45	97.64	110.39
2	B	447	TYR	CB-CA-C	-8.44	93.63	110.42
2	H	219	PRO	CA-N-CD	8.44	123.81	112.00
2	B	219	PRO	CB-CA-C	-8.43	100.75	111.71
2	F	768	PHE	CB-CA-C	8.43	127.19	110.42
2	H	156	LYS	CB-CA-C	-8.41	91.34	110.18
2	G	359	TYR	N-CA-CB	-8.41	98.86	110.38
2	L	226	GLN	CA-C-N	-8.41	110.30	123.24
2	L	226	GLN	C-N-CA	-8.41	110.30	123.24
2	E	819	TYR	CA-C-N	-8.40	110.92	119.99
2	E	819	TYR	C-N-CA	-8.40	110.92	119.99
2	G	177	TYR	CB-CA-C	8.40	127.13	110.42
2	F	111	PRO	CB-CA-C	-8.39	97.71	111.56
2	A	817	ALA	CA-C-O	-8.39	111.68	121.16
2	D	816	PRO	N-CD-CG	-8.39	90.61	103.20
2	B	906	ARG	CB-CA-C	-8.38	93.73	110.42
2	H	219	PRO	N-CD-CG	-8.39	90.62	103.20
2	L	219	PRO	CB-CA-C	-8.38	97.73	111.56
2	C	831	SER	N-CA-CB	-8.37	96.75	111.49
2	E	917	PRO	N-CD-CG	-8.37	90.65	103.20
2	B	221	ASN	CB-CA-C	-8.36	93.79	110.42
2	E	144	ARG	N-CA-C	8.35	128.59	110.80
2	C	801	PHE	N-CA-C	-8.35	102.13	111.82
2	B	847	PRO	N-CD-CG	-8.35	90.68	103.20
2	B	911	ALA	N-CA-CB	-8.34	97.50	110.85
2	C	122	ASN	CB-CA-C	-8.34	93.83	110.42
2	F	158	ASN	CB-CA-C	8.32	124.14	110.24
2	L	124	LEU	N-CA-C	-8.32	98.32	110.64
2	C	164	THR	CB-CA-C	-8.32	93.86	110.42
2	A	815	TYR	CB-CA-C	-8.32	95.10	109.32
2	E	146	GLN	CB-CA-C	-8.31	93.88	110.42
2	J	179	PRO	CB-CA-C	-8.31	97.84	111.56
6	Q	17	PHE	CA-CB-CG	-8.31	105.49	113.80
2	A	247	PHE	CB-CA-C	8.29	126.93	110.42
2	F	115	PRO	N-CA-CB	-8.29	94.54	103.25
2	D	426	GLU	CB-CA-C	-8.29	98.10	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	22	THR	N-CA-C	8.29	124.49	113.72
2	C	212	CYS	CB-CA-C	-8.28	93.94	110.42
2	A	222	GLU	CB-CA-C	-8.26	97.02	110.74
2	C	119	THR	CB-CA-C	-8.26	96.66	112.43
6	S	24	ARG	CB-CA-C	-8.26	94.84	109.62
2	C	126	PRO	CB-CA-C	-8.26	97.94	111.56
2	H	807	PRO	N-CA-CB	-8.25	96.09	102.28
2	K	301	ASN	CB-CA-C	-8.24	96.67	110.19
2	L	154	ILE	N-CA-C	-8.24	101.87	113.07
2	G	179	PRO	N-CA-C	-8.23	95.51	112.47
2	B	904	PRO	N-CA-C	-8.23	95.52	112.47
2	C	821	TYR	CB-CA-C	8.23	123.18	109.69
2	F	170	PRO	CB-CA-C	-8.22	98.00	111.56
2	D	411	THR	CB-CA-C	-8.21	94.08	110.42
2	E	786	GLU	CB-CA-C	-8.21	96.61	110.81
2	B	174	ASP	CB-CA-C	-8.21	94.09	110.42
2	D	218	LYS	CB-CA-C	-8.20	94.01	110.17
2	K	261	TYR	N-CA-CB	-8.20	97.44	109.83
2	B	327	GLN	CB-CA-C	-8.18	97.72	110.81
2	F	211	PRO	CA-N-CD	-8.18	100.55	112.00
2	J	226	GLN	CB-CG-CD	-8.15	98.74	112.60
2	C	30	GLN	CB-CA-C	8.15	124.32	110.79
2	D	821	TYR	CA-C-O	-8.15	113.18	119.46
2	C	751	TYR	CB-CA-C	-8.15	95.34	110.01
2	B	796	HIS	CB-CA-C	8.14	126.62	110.42
2	E	784	TYR	CB-CA-C	-8.14	94.22	110.42
2	F	254	ASN	CB-CA-C	-8.14	94.23	110.42
2	B	325	ALA	CB-CA-C	-8.13	93.79	113.15
2	C	608	ARG	CB-CA-C	-8.12	92.80	110.41
2	G	380	HIS	CB-CA-C	-8.11	94.27	110.42
2	J	181	PRO	N-CA-CB	-8.11	94.07	103.00
2	C	789	ASN	CB-CA-C	-8.11	99.95	112.12
2	C	180	GLU	CB-CA-C	-8.11	94.20	110.17
2	G	343	GLU	CB-CA-C	-8.11	101.17	111.22
2	G	49	THR	CB-CA-C	-8.10	100.81	111.42
2	H	152	THR	CB-CA-C	-8.10	95.78	109.38
1	8	27	THR	CB-CA-C	8.10	123.96	110.03
2	B	822	PRO	N-CA-C	8.09	129.14	112.47
2	C	820	PRO	N-CA-CB	-8.09	94.75	103.25
2	G	345	SER	N-CA-C	-8.09	102.86	112.89
2	I	418	TYR	CB-CA-C	8.09	121.97	109.84
2	J	175	LYS	CB-CA-C	-8.09	97.60	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	377	ILE	CA-C-O	-8.07	110.83	120.76
2	H	300	PRO	CB-CA-C	-8.07	97.42	110.25
2	F	205	ASP	CB-CA-C	-8.06	98.60	111.18
2	B	341	ASN	CB-CA-C	-8.06	97.76	110.74
2	D	193	GLY	N-CA-C	-8.06	102.68	113.24
2	D	125	ALA	N-CA-C	8.05	127.61	109.81
2	B	219	PRO	N-CA-CB	-8.05	96.01	103.17
2	C	358	ARG	CA-C-N	-8.04	110.01	121.99
2	C	358	ARG	C-N-CA	-8.04	110.01	121.99
2	C	791	THR	CB-CA-C	-8.04	95.41	109.64
2	B	830	PRO	CB-CA-C	8.04	124.82	111.56
2	G	725	GLU	CB-CA-C	-8.03	94.43	110.42
2	E	51	ALA	CA-C-N	8.03	130.10	120.23
2	E	51	ALA	C-N-CA	8.03	130.10	120.23
2	F	733	ASN	N-CA-CB	8.03	121.43	111.79
2	B	180	GLU	CA-C-N	8.03	129.87	119.84
2	B	180	GLU	C-N-CA	8.03	129.87	119.84
2	B	884	ASP	CB-CA-C	-8.03	97.16	110.72
2	C	128	THR	N-CA-CB	-8.02	96.94	110.49
2	G	253	PRO	N-CA-CB	-8.02	94.83	103.25
5	O	217	GLN	N-CA-C	-8.02	102.30	113.20
2	J	116	TYR	CA-C-N	-8.01	109.71	121.24
2	J	116	TYR	C-N-CA	-8.01	109.71	121.24
2	L	709	ARG	CG-CD-NE	-8.01	94.39	112.00
6	S	25	LEU	N-CA-C	-8.01	100.00	109.93
2	B	273	HIS	CA-CB-CG	8.00	121.80	113.80
2	H	197	LYS	CB-CA-C	-8.00	101.22	111.70
2	G	55	ASP	N-CA-C	8.00	121.62	109.62
2	F	221	ASN	CB-CA-C	-7.99	94.52	110.42
2	E	820	PRO	CA-N-CD	7.98	123.18	112.00
2	F	730	ALA	CA-C-N	-7.98	107.87	122.31
2	F	730	ALA	C-N-CA	-7.98	107.87	122.31
2	G	143	VAL	CA-C-N	-7.97	106.32	121.54
2	G	143	VAL	C-N-CA	-7.97	106.32	121.54
2	H	132	PRO	CB-CA-C	-7.96	98.43	111.56
2	E	732	CYS	CB-CA-C	-7.94	94.63	110.42
7	U	21	ALA	CB-CA-C	-7.93	94.63	110.42
2	C	568	SER	O-C-N	7.93	127.42	121.47
2	C	126	PRO	N-CA-C	-7.93	96.14	112.47
2	J	101	PHE	CA-C-O	-7.92	112.51	121.07
2	H	176	THR	CA-C-N	-7.92	112.27	123.20
2	H	176	THR	C-N-CA	-7.92	112.27	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	393	LEU	N-CA-C	-7.92	102.53	112.90
2	B	181	PRO	CA-N-CD	-7.91	100.92	112.00
2	I	418	TYR	O-C-N	7.91	132.56	123.06
2	G	263	GLU	CB-CG-CD	-7.90	99.16	112.60
2	C	184	GLY	N-CA-C	-7.90	104.13	115.27
2	B	164	THR	CB-CA-C	-7.90	94.70	110.42
2	B	445	PHE	N-CA-C	-7.89	100.28	112.99
2	D	817	ALA	N-CA-C	7.89	117.56	108.49
2	L	705	PRO	N-CA-CB	-7.89	94.56	103.15
2	B	302	TYR	CB-CA-C	-7.88	98.75	109.71
2	K	206	THR	CB-CA-C	-7.88	94.97	110.27
2	C	609	ASN	N-CA-C	-7.88	97.89	109.63
2	C	32	ALA	N-CA-C	-7.88	102.45	112.93
2	A	12	TYR	N-CA-C	-7.87	102.18	112.41
2	C	297	PRO	CB-CA-C	-7.86	98.77	110.17
2	C	762	ASP	CB-CA-C	-7.86	96.33	111.97
2	B	660	GLU	CB-CA-C	-7.84	95.02	109.29
2	F	273	HIS	CB-CA-C	-7.84	94.83	110.42
2	L	179	PRO	N-CA-C	-7.83	105.60	114.92
2	D	284	THR	N-CA-C	-7.83	101.14	111.24
2	B	898	VAL	N-CA-CB	-7.82	98.32	111.23
2	D	220	THR	CB-CA-C	-7.82	94.86	110.42
2	A	811	GLU	N-CA-CB	-7.82	97.23	110.83
2	J	122	ASN	CA-C-N	-7.82	109.50	122.79
2	J	122	ASN	C-N-CA	-7.82	109.50	122.79
2	B	461	THR	CB-CA-C	-7.81	94.78	110.17
2	H	177	TYR	N-CA-CB	-7.81	96.54	110.60
2	B	256	PRO	N-CA-CB	-7.81	95.05	103.25
2	H	256	PRO	CB-CA-C	-7.81	98.68	111.56
5	O	258	ARG	CB-CA-C	-7.81	98.95	111.28
2	B	177	TYR	CB-CA-C	7.80	125.95	110.42
2	C	434	GLU	CB-CA-C	-7.80	95.08	114.11
2	F	793	PRO	N-CA-C	-7.79	96.42	112.47
2	C	152	THR	CB-CA-C	-7.79	99.25	110.62
2	F	178	GLN	CB-CG-CD	-7.79	99.35	112.60
2	J	706	GLY	N-CA-C	7.79	125.77	112.22
2	A	273	HIS	CA-CB-CG	7.78	121.58	113.80
2	J	180	GLU	CB-CA-C	-7.78	94.85	110.17
2	B	291	LEU	N-CA-C	-7.77	100.67	113.50
4	N	188	GLU	N-CA-CB	-7.76	97.38	110.49
2	F	176	THR	N-CA-C	-7.75	103.56	112.87
2	J	136	LYS	CB-CA-C	-7.75	104.71	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	I	189	ASN	CB-CA-C	-7.75	101.13	111.82
2	A	246	PHE	CA-CB-CG	7.75	121.55	113.80
2	A	709	ARG	CA-C-N	-7.74	114.68	123.04
2	A	709	ARG	C-N-CA	-7.74	114.68	123.04
2	E	818	ASN	CB-CA-C	-7.73	95.03	110.42
2	H	196	GLN	CB-CA-C	-7.73	99.29	111.51
2	C	36	ASP	N-CA-C	-7.73	104.33	114.31
2	C	756	VAL	CB-CA-C	-7.73	103.74	111.08
2	F	276	TYR	N-CA-CB	7.73	123.55	110.49
2	B	793	PRO	N-CA-C	-7.72	96.56	112.47
2	H	123	SER	CA-C-N	-7.72	109.25	122.14
2	H	123	SER	C-N-CA	-7.72	109.25	122.14
2	J	705	PRO	N-CA-C	-7.72	96.58	112.47
2	C	140	LYS	N-CA-C	-7.71	101.32	110.41
2	F	137	ASP	CB-CA-C	7.71	126.67	109.56
2	G	904	PRO	CB-CA-C	-7.70	98.85	111.56
2	B	367	VAL	CB-CA-C	-7.70	98.66	111.29
2	E	136	LYS	CB-CA-C	-7.70	95.10	110.42
2	F	816	PRO	N-CA-CB	-7.70	95.17	103.25
2	J	220	THR	N-CA-CB	7.69	123.48	110.49
2	E	149	PHE	CB-CA-C	-7.68	99.22	112.44
2	G	393	LEU	CA-C-N	-7.68	113.31	121.45
2	G	393	LEU	C-N-CA	-7.68	113.31	121.45
2	C	707	ASN	N-CA-C	-7.68	94.45	110.80
2	B	455	PRO	N-CA-CB	-7.67	95.19	103.25
2	E	736	LYS	CA-C-N	-7.67	110.45	122.49
2	E	736	LYS	C-N-CA	-7.67	110.45	122.49
2	B	483	VAL	N-CA-CB	-7.67	100.47	111.21
2	C	351	ASP	CB-CA-C	-7.66	96.57	109.75
2	F	818	ASN	CB-CA-C	-7.65	95.19	110.42
2	J	421	ARG	N-CA-C	-7.65	97.22	109.76
2	E	96	MET	CB-CG-SD	-7.64	89.79	112.70
2	G	305	PHE	CB-CA-C	-7.64	96.89	111.48
2	G	268	GLU	CA-C-O	-7.63	112.40	119.34
2	F	830	PRO	N-CA-CB	-7.62	95.25	103.25
2	H	816	PRO	N-CA-CB	-7.61	95.26	103.25
2	J	137	ASP	CB-CA-C	-7.61	95.27	110.42
2	C	306	ARG	N-CA-C	7.61	121.20	108.20
2	K	220	THR	CB-CA-C	-7.60	98.37	111.45
2	G	392	PRO	CA-N-CD	7.60	122.64	112.00
2	G	906	ARG	CB-CA-C	-7.60	95.30	110.42
2	B	845	ARG	CA-C-O	-7.59	112.01	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	301	ASN	CB-CA-C	-7.59	98.91	111.51
2	C	436	ASN	CB-CA-C	7.59	125.52	110.42
5	O	119	GLN	N-CA-CB	7.58	123.30	110.49
2	C	455	PRO	CB-CA-C	7.58	124.06	111.56
2	B	308	ASN	CB-CA-C	7.58	123.53	111.48
1	2	18	PHE	CA-CB-CG	7.57	121.37	113.80
2	H	815	TYR	N-CA-C	-7.57	93.08	109.81
2	C	705	PRO	CA-N-CD	7.57	122.59	112.00
2	C	167	THR	CB-CA-C	-7.57	98.14	114.10
2	C	268	GLU	CB-CA-C	-7.56	95.37	110.42
2	J	392	PRO	CB-CA-C	-7.56	99.08	111.56
2	J	401	THR	CB-CA-C	7.56	125.47	110.42
2	B	864	ASN	CB-CA-C	-7.55	95.39	110.42
2	H	158	ASN	CB-CA-C	7.55	125.45	110.42
2	F	732	CYS	CB-CA-C	-7.55	95.40	110.42
2	G	316	ASN	CB-CA-C	-7.55	98.42	112.30
2	B	208	PRO	CB-CA-C	-7.53	99.13	111.56
2	D	100	TYR	N-CA-C	-7.53	101.52	108.75
2	C	142	LYS	CA-C-N	7.53	132.70	122.01
2	C	142	LYS	C-N-CA	7.53	132.70	122.01
2	I	363	TRP	N-CA-C	-7.53	99.31	110.23
2	F	201	ARG	CA-C-O	-7.52	112.15	121.78
2	H	243	ASN	CB-CA-C	-7.51	94.80	109.68
2	B	300	PRO	N-CA-CB	-7.51	95.36	103.25
2	C	183	VAL	CB-CA-C	-7.51	98.97	111.29
2	D	177	TYR	CA-C-O	-7.51	112.92	121.40
2	G	134	GLU	CB-CA-C	-7.51	98.13	110.14
2	B	335	VAL	N-CA-CB	-7.51	102.44	111.90
2	J	43	ASN	CA-C-N	-7.51	111.02	123.33
2	J	43	ASN	C-N-CA	-7.51	111.02	123.33
2	J	445	PHE	N-CA-CB	7.50	121.45	110.57
2	C	439	ALA	N-CA-C	-7.50	102.96	112.93
2	F	815	TYR	CA-CB-CG	-7.50	100.40	113.90
2	C	579	ALA	N-CA-C	7.50	126.77	110.80
2	F	100	TYR	CA-CB-CG	7.49	127.38	113.90
2	F	733	ASN	CA-C-O	-7.49	114.28	121.02
2	H	157	ASP	N-CA-C	-7.49	94.85	110.80
2	K	303	ILE	CB-CA-C	-7.49	103.19	111.35
2	E	789	ASN	CB-CA-C	-7.49	95.52	110.42
5	O	217	GLN	CB-CG-CD	-7.49	99.88	112.60
2	H	196	GLN	CA-C-N	-7.48	108.18	121.87
2	H	196	GLN	C-N-CA	-7.48	108.18	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	455	PRO	N-CA-CB	-7.47	95.41	103.25
2	E	884	ASP	CB-CA-C	-7.46	95.56	110.42
2	F	711	LEU	N-CA-C	-7.46	103.00	112.93
2	H	171	ILE	CB-CA-C	-7.45	101.30	110.99
2	D	258	ALA	CA-C-N	-7.45	112.67	123.10
2	D	258	ALA	C-N-CA	-7.45	112.67	123.10
2	E	144	ARG	CB-CA-C	-7.45	95.60	110.42
2	G	268	GLU	O-C-N	7.45	127.47	122.03
2	B	219	PRO	N-CA-C	-7.44	98.89	110.95
2	F	108	ASP	CB-CA-C	-7.44	99.64	112.44
2	B	308	ASN	N-CA-CB	-7.43	101.20	112.28
2	H	810	ARG	CB-CA-C	-7.43	98.82	111.31
2	J	220	THR	CA-CB-OG1	7.43	120.75	109.60
6	S	26	PRO	N-CA-C	-7.43	97.16	112.47
2	A	705	PRO	CB-CA-C	-7.43	99.31	111.56
2	A	537	GLN	CB-CG-CD	-7.42	99.98	112.60
2	D	115	PRO	CB-CA-C	-7.41	101.70	110.00
2	J	452	LEU	CA-C-N	-7.40	109.45	122.62
2	J	452	LEU	C-N-CA	-7.40	109.45	122.62
2	L	150	ILE	N-CA-CB	-7.40	99.02	111.23
2	C	300	PRO	CB-CA-C	-7.39	99.37	111.56
2	B	342	THR	CA-C-N	-7.39	111.44	121.71
2	B	342	THR	C-N-CA	-7.39	111.44	121.71
2	F	149	PHE	CB-CA-C	-7.38	96.07	110.10
2	F	219	PRO	N-CD-CG	-7.38	92.13	103.20
2	C	189	ASN	N-CA-C	-7.38	104.30	113.38
2	G	716	PHE	CB-CA-C	-7.38	97.91	110.16
2	C	314	TYR	CB-CA-C	-7.38	98.64	110.81
6	P	16	VAL	N-CA-CB	-7.38	99.06	111.23
2	F	820	PRO	N-CD-CG	-7.38	92.14	103.20
2	B	264	ASN	N-CA-C	-7.37	100.33	110.35
2	C	747	TYR	N-CA-CB	-7.37	98.04	110.49
2	A	272	THR	CB-CA-C	-7.37	94.76	109.35
2	F	181	PRO	N-CA-C	7.36	127.64	112.47
2	B	439	ALA	N-CA-C	-7.35	105.49	114.75
2	K	205	ASP	CB-CA-C	-7.35	95.80	110.42
2	C	235	ASP	N-CA-C	7.35	119.56	107.73
6	S	20	TYR	CB-CA-C	-7.34	95.81	110.42
2	H	124	LEU	CA-C-N	-7.34	103.89	121.80
2	H	124	LEU	C-N-CA	-7.34	103.89	121.80
2	J	700	SER	CA-C-N	-7.34	110.32	121.26
2	J	700	SER	C-N-CA	-7.34	110.32	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	198	VAL	CA-C-O	-7.33	115.89	121.68
2	H	226	GLN	CB-CG-CD	-7.33	100.14	112.60
2	B	331	LEU	N-CA-C	7.33	120.88	109.96
2	C	378	GLU	CB-CA-C	-7.31	98.95	111.23
2	G	359	TYR	CA-C-O	-7.31	113.66	121.99
2	I	184	GLY	N-CA-C	-7.31	103.09	115.80
2	A	539	PHE	CA-C-N	7.30	135.49	121.54
2	A	539	PHE	C-N-CA	7.30	135.49	121.54
2	B	844	TRP	N-CA-CB	-7.30	98.17	109.48
2	F	118	GLY	CA-C-O	-7.29	115.05	122.56
2	H	126	PRO	CB-CA-C	-7.29	105.75	111.87
2	H	796	HIS	CB-CA-C	-7.29	95.91	110.42
2	I	185	GLN	N-CA-C	-7.28	99.74	110.52
2	H	287	SER	CA-C-O	-7.28	113.32	121.40
2	J	242	VAL	CB-CA-C	-7.28	101.24	111.28
2	A	621	CYS	CB-CA-C	-7.27	95.95	110.42
1	8	29	GLN	N-CA-C	7.27	126.29	110.80
2	H	176	THR	CB-CA-C	-7.27	95.95	110.42
2	F	277	LYS	CB-CA-C	-7.27	98.38	109.50
2	C	609	ASN	CA-C-N	-7.26	110.66	121.99
2	C	609	ASN	C-N-CA	-7.26	110.66	121.99
2	C	810	ARG	CA-C-N	-7.26	112.70	122.72
2	C	810	ARG	C-N-CA	-7.26	112.70	122.72
2	J	219	PRO	CB-CA-C	-7.26	99.58	111.56
2	G	720	ARG	CB-CA-C	-7.25	95.99	110.42
2	D	816	PRO	CB-CA-C	-7.25	99.60	111.56
2	H	228	SER	N-CA-CB	-7.25	98.24	110.49
2	C	314	TYR	CA-C-N	-7.25	115.22	123.04
2	C	314	TYR	C-N-CA	-7.25	115.22	123.04
2	G	376	ILE	N-CA-C	-7.24	94.27	109.34
2	C	833	THR	CB-CA-C	-7.24	96.99	112.63
2	B	150	ILE	N-CA-CB	-7.24	103.00	111.39
2	F	290	LEU	N-CA-C	-7.24	104.33	113.01
2	G	378	GLU	N-CA-CB	-7.23	98.26	110.49
2	C	616	PHE	CB-CA-C	7.23	122.85	109.54
2	A	795	GLN	CB-CA-C	-7.23	96.03	110.42
2	B	343	GLU	CA-C-O	-7.23	112.76	120.71
2	C	182	GLN	CB-CA-C	7.23	124.80	110.42
1	1	18	PHE	CA-CB-CG	7.22	121.02	113.80
2	C	233	GLY	N-CA-C	7.22	119.56	110.96
2	G	284	THR	CB-CA-C	7.22	124.79	110.42
2	C	616	PHE	CA-C-O	-7.22	113.69	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	782	THR	CB-CA-C	-7.21	96.07	110.42
2	G	702	VAL	CA-C-O	-7.21	111.77	120.78
2	J	148	PRO	CB-CA-C	-7.21	99.66	111.56
2	C	36	ASP	CB-CA-C	-7.21	96.91	109.02
2	B	255	GLU	CB-CA-C	7.20	124.24	111.20
5	O	193	PRO	N-CA-C	7.20	127.29	112.47
2	B	247	PHE	CB-CA-C	-7.19	98.22	110.16
2	C	611	THR	N-CA-C	-7.19	104.11	113.17
6	S	22	THR	CB-CA-C	7.19	123.70	110.11
3	M	150	LYS	N-CA-C	7.19	121.16	111.24
2	D	196	GLN	CB-CA-C	7.19	123.75	111.68
2	C	309	PHE	N-CA-C	-7.18	102.50	110.91
2	E	885	GLU	CB-CA-C	-7.18	96.02	110.17
2	B	847	PRO	CA-C-O	-7.18	113.23	121.56
2	D	272	THR	CB-CA-C	-7.18	96.13	110.42
2	K	267	ILE	N-CA-C	7.18	118.32	108.84
2	L	212	CYS	N-CA-CB	7.18	120.79	110.88
2	F	114	LYS	N-CA-CB	7.18	123.15	110.37
2	K	309	PHE	CB-CA-C	7.17	121.39	111.63
2	A	263	GLU	CB-CA-C	-7.17	96.16	110.42
2	D	121	TYR	CB-CA-C	7.17	124.69	110.42
6	S	26	PRO	N-CA-CB	-7.17	95.72	103.25
2	B	440	ASN	N-CA-C	-7.17	104.56	113.38
2	C	749	ILE	CA-CB-CG1	7.17	122.58	110.40
2	D	733	ASN	CB-CA-C	7.17	124.68	110.42
2	J	704	TRP	CA-C-N	7.17	128.80	119.84
2	J	704	TRP	C-N-CA	7.17	128.80	119.84
5	O	255	THR	N-CA-C	-7.17	99.55	110.30
2	H	223	LYS	N-CA-C	-7.16	104.53	113.20
2	L	148	PRO	CB-CA-C	-7.15	99.76	111.56
5	O	215	ASN	N-CA-C	-7.15	101.89	113.19
2	G	143	VAL	O-C-N	7.15	131.51	122.57
6	R	28	TRP	CA-C-N	-7.15	111.67	123.04
6	R	28	TRP	C-N-CA	-7.15	111.67	123.04
2	B	373	ASP	CA-C-N	-7.15	115.73	122.66
2	B	373	ASP	C-N-CA	-7.15	115.73	122.66
2	C	389	TYR	CA-C-O	-7.15	112.75	121.11
2	C	170	PRO	N-CA-CB	-7.14	95.76	103.25
2	C	228	SER	N-CA-C	-7.13	98.93	110.20
2	B	181	PRO	CB-CA-C	-7.13	99.80	111.56
2	B	907	GLY	CA-C-N	-7.13	111.36	122.69
2	B	907	GLY	C-N-CA	-7.13	111.36	122.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	223	LYS	CB-CA-C	-7.13	99.55	111.02
2	L	153	ASN	CB-CA-C	7.12	124.60	110.42
2	H	188	TRP	N-CA-C	-7.12	95.63	110.80
2	C	594	PRO	CB-CA-C	-7.12	99.81	111.56
6	S	19	PRO	N-CA-C	-7.12	91.76	113.27
2	C	330	GLN	CB-CA-C	7.12	124.59	110.42
2	F	219	PRO	N-CA-CB	-7.12	95.78	103.25
2	A	213	TYR	N-CA-C	-7.12	99.79	109.54
2	K	222	GLU	CB-CA-C	-7.12	96.26	110.42
2	L	183	VAL	CB-CA-C	-7.12	103.76	111.59
2	H	183	VAL	O-C-N	7.11	129.43	122.25
2	E	807	PRO	N-CA-CB	-7.11	95.79	103.25
3	M	234	PRO	N-CA-C	7.11	127.11	112.47
2	F	176	THR	CB-CA-C	7.10	125.76	110.21
2	A	4	PRO	N-CD-CG	-7.10	92.55	103.20
2	B	320	ASN	N-CA-CB	-7.10	98.49	110.49
3	M	132	ILE	N-CA-C	7.10	124.10	109.34
2	H	149	PHE	CB-CA-C	-7.09	96.30	110.42
2	F	256	PRO	CB-CA-C	-7.09	99.87	111.56
6	Q	19	PRO	CB-CA-C	-7.09	99.87	111.56
2	E	148	PRO	N-CD-CG	-7.08	92.57	103.20
2	B	342	THR	N-CA-CB	7.08	121.25	110.70
2	K	273	HIS	CB-CA-C	-7.08	101.01	111.77
2	C	607	LEU	N-CA-C	-7.08	104.65	112.72
2	J	221	ASN	CB-CA-C	-7.08	95.11	111.95
2	B	323	VAL	N-CA-CB	-7.07	99.56	111.23
1	1	8	SER	CB-CA-C	-7.07	96.35	110.42
2	A	708	ASP	CB-CA-C	-7.07	100.56	111.66
2	C	335	VAL	N-CA-CB	-7.07	104.13	112.40
2	H	167	THR	CB-CA-C	-7.07	96.35	110.42
2	C	737	ASP	N-CA-C	-7.07	101.91	111.87
2	E	831	SER	N-CA-C	7.06	120.41	108.90
2	A	221	ASN	CB-CA-C	-7.06	98.85	110.14
2	G	431	PHE	CA-CB-CG	7.06	120.86	113.80
2	F	196	GLN	CB-CA-C	-7.05	97.80	110.36
2	G	353	LEU	CA-C-N	-7.05	111.78	121.23
2	G	353	LEU	C-N-CA	-7.05	111.78	121.23
5	O	114	ASN	N-CA-CB	7.05	120.04	110.38
2	J	697	MET	CB-CA-C	-7.05	99.98	110.62
2	L	121	TYR	CB-CA-C	7.04	124.44	110.42
2	J	162	ILE	CB-CA-C	7.04	122.83	111.29
5	O	216	LEU	N-CA-C	-7.04	104.34	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	137	ASP	CB-CA-C	7.04	124.42	110.42
2	E	140	LYS	CB-CA-C	-7.04	95.61	110.31
2	C	730	ALA	CB-CA-C	-7.03	96.42	110.42
2	J	917	PRO	N-CD-CG	-7.03	92.66	103.20
2	C	728	ASN	CA-C-O	-7.03	113.21	120.80
2	G	733	ASN	CA-C-N	7.02	133.11	122.93
2	G	733	ASN	C-N-CA	7.02	133.11	122.93
4	N	179	LYS	N-CA-CB	-7.02	105.06	111.59
2	H	198	VAL	N-CA-CB	-7.01	104.07	112.07
2	J	869	ASN	CB-CA-C	-7.01	99.93	111.36
2	F	219	PRO	CB-CA-C	-7.01	100.00	111.56
2	J	436	ASN	CA-C-O	-7.01	113.88	122.64
2	B	292	THR	CB-CA-C	-7.00	98.67	110.44
2	E	833	THR	CB-CA-C	-7.00	97.57	109.83
2	B	379	ASN	CB-CA-C	-7.00	101.62	112.12
2	C	306	ARG	CB-CA-C	-7.00	99.58	110.78
2	F	385	GLU	CB-CA-C	-7.00	96.49	110.42
2	B	431	PHE	CB-CA-C	-7.00	96.50	110.42
2	H	291	LEU	N-CA-C	-6.99	103.69	113.20
1	8	27	THR	CA-CB-OG1	6.99	120.09	109.60
2	G	921	GLY	CA-C-N	-6.99	110.67	121.02
2	G	921	GLY	C-N-CA	-6.99	110.67	121.02
2	A	208	PRO	N-CA-C	-6.99	98.08	112.47
2	G	323	VAL	N-CA-CB	-6.99	99.70	111.23
2	F	222	GLU	CB-CA-C	-6.99	96.52	110.42
2	C	575	ARG	CA-C-N	-6.99	113.36	122.16
2	C	575	ARG	C-N-CA	-6.99	113.36	122.16
2	I	179	PRO	CB-CA-C	-6.99	100.04	111.56
2	J	148	PRO	N-CA-C	6.99	126.86	112.47
2	B	895	VAL	CB-CA-C	-6.98	99.84	111.29
2	I	144	ARG	CB-CA-C	-6.98	95.87	109.76
2	D	187	GLN	N-CA-C	-6.98	95.94	110.80
2	F	152	THR	CB-CA-C	6.98	124.30	110.42
2	L	203	LEU	CA-C-O	-6.98	113.47	121.15
2	E	811	GLU	CB-CA-C	-6.97	101.17	111.77
2	C	233	GLY	CA-C-O	-6.97	115.08	122.05
2	J	226	GLN	CB-CA-C	-6.97	96.57	113.15
2	A	812	GLY	N-CA-C	6.96	123.12	112.81
2	B	213	TYR	N-CA-C	-6.96	103.90	112.88
4	N	179	LYS	CB-CA-C	-6.96	106.38	116.54
2	F	120	ALA	CA-C-N	-6.96	110.24	122.07
2	F	120	ALA	C-N-CA	-6.96	110.24	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	183	VAL	CB-CA-C	-6.96	102.14	110.84
2	B	212	CYS	CB-CA-C	-6.95	96.58	110.42
2	D	191	GLU	CB-CA-C	-6.95	96.58	110.42
2	F	771	PHE	N-CA-C	-6.95	99.67	110.17
2	H	815	TYR	CB-CA-C	-6.95	96.48	110.17
3	M	60	PRO	CA-C-N	-6.95	111.94	123.33
3	M	60	PRO	C-N-CA	-6.95	111.94	123.33
2	G	436	ASN	N-CA-C	-6.95	101.17	110.55
2	F	211	PRO	CB-CA-C	-6.94	100.11	111.56
2	B	335	VAL	CB-CA-C	-6.93	101.98	110.99
2	C	33	ARG	N-CA-C	-6.93	103.92	112.38
2	J	174	ASP	CA-CB-CG	6.92	119.53	112.60
2	C	234	THR	CB-CA-C	6.92	124.19	110.42
5	O	120	ALA	N-CA-C	-6.92	104.83	113.55
2	E	819	TYR	N-CA-CB	6.92	122.68	110.37
2	F	273	HIS	CA-CB-CG	6.92	120.72	113.80
2	E	699	ASP	CB-CA-C	6.91	124.18	110.42
2	G	59	ASP	CB-CA-C	-6.91	97.83	109.03
2	F	828	ALA	CB-CA-C	-6.91	98.48	112.99
2	B	795	GLN	N-CA-C	-6.91	96.08	110.80
1	5	17	PRO	CB-CA-C	-6.90	100.17	111.56
2	A	218	LYS	CB-CA-C	-6.90	96.57	110.17
2	H	740	LEU	N-CA-C	-6.90	106.05	114.75
2	A	796	HIS	CB-CA-C	-6.90	99.68	111.41
2	H	732	CYS	CB-CA-C	-6.90	96.69	110.42
2	C	455	PRO	N-CA-CB	-6.90	96.01	103.25
2	C	800	GLY	CA-C-N	-6.89	109.83	120.31
2	C	800	GLY	C-N-CA	-6.89	109.83	120.31
2	L	156	LYS	N-CA-C	-6.89	101.44	111.30
2	B	289	ASP	CB-CA-C	-6.89	96.71	110.42
2	J	211	PRO	CA-N-CD	6.89	121.65	112.00
2	B	337	LEU	N-CA-CB	-6.89	99.33	110.69
2	C	798	ASN	CB-CA-C	6.89	124.12	110.42
2	C	748	ASN	CB-CA-C	-6.88	96.72	110.42
6	S	10	VAL	N-CA-CB	-6.88	99.87	111.23
2	C	609	ASN	CB-CA-C	-6.88	99.83	113.45
2	G	902	HIS	CB-CA-C	-6.88	96.74	110.42
2	K	277	LYS	CB-CA-C	-6.88	98.51	109.51
2	B	867	TYR	CB-CA-C	6.87	124.10	110.42
2	C	582	ARG	O-C-N	6.87	130.94	122.14
2	E	831	SER	N-CA-CB	-6.87	99.14	110.68
2	B	457	SER	N-CA-C	-6.87	105.43	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	394	GLY	N-CA-C	-6.87	100.25	112.54
2	B	904	PRO	CB-CA-C	6.86	122.89	111.56
2	D	363	TRP	N-CA-C	-6.86	96.19	110.80
2	C	387	PRO	CA-C-O	-6.86	112.94	123.16
2	A	809	MET	N-CA-C	6.85	120.30	109.81
2	D	192	VAL	N-CA-C	-6.85	102.45	112.04
6	S	41	ASP	N-CA-C	-6.85	103.74	111.07
5	O	117	ASN	N-CA-CB	6.85	122.06	110.49
2	H	302	TYR	CA-C-O	-6.85	113.64	121.72
2	J	201	ARG	CB-CA-C	6.84	120.67	111.70
2	A	208	PRO	CB-CA-C	-6.84	100.27	111.56
2	K	273	HIS	CA-CB-CG	6.84	120.64	113.80
2	J	219	PRO	CA-N-CD	6.84	121.58	112.00
2	H	795	GLN	CB-CG-CD	-6.84	100.97	112.60
7	U	23	ALA	N-CA-C	-6.83	96.25	110.80
2	B	875	ASP	CB-CA-C	-6.83	96.83	110.42
2	F	113	PHE	CB-CA-C	-6.82	96.85	110.42
2	C	359	TYR	N-CA-CB	-6.81	99.04	109.94
2	B	439	ALA	N-CA-CB	-6.81	101.21	111.15
2	D	116	TYR	CB-CA-C	-6.81	96.87	110.42
2	B	290	LEU	N-CA-C	-6.80	96.32	110.80
2	D	219	PRO	CB-CA-C	-6.80	100.35	111.56
2	F	217	ALA	N-CA-CB	-6.79	101.01	110.38
2	C	774	MET	N-CA-CB	-6.79	100.62	111.62
2	F	220	THR	CB-CA-C	-6.79	99.81	110.74
2	I	142	LYS	CA-C-O	-6.79	111.70	119.98
2	D	261	TYR	CB-CA-C	-6.79	98.06	109.53
2	I	421	ARG	N-CA-CB	-6.77	99.05	110.49
2	B	339	ASP	N-CA-C	-6.77	96.38	110.80
2	D	143	VAL	CA-C-O	-6.77	114.33	121.44
2	B	848	PHE	CB-CA-C	-6.76	101.25	111.73
2	B	271	ASP	CB-CA-C	-6.76	100.12	110.26
2	C	162	ILE	CB-CA-C	6.75	122.36	111.29
2	F	727	TYR	CA-C-O	-6.75	113.84	121.81
2	A	819	TYR	CB-CA-C	-6.75	96.87	110.17
2	F	181	PRO	CB-CA-C	-6.75	100.43	111.56
2	B	351	ASP	N-CA-C	-6.75	99.73	109.31
2	A	265	VAL	CB-CA-C	-6.74	100.23	111.29
2	F	265	VAL	N-CA-CB	-6.74	100.11	111.23
2	D	195	ALA	CA-C-N	-6.74	111.55	122.34
2	D	195	ALA	C-N-CA	-6.74	111.55	122.34
2	J	130	PRO	N-CA-C	-6.73	98.61	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	M	366	ASP	N-CA-C	6.73	117.12	108.24
4	N	189	ASN	N-CA-C	6.72	120.50	109.94
2	B	132	PRO	CB-CA-C	-6.72	100.47	111.56
2	C	392	PRO	N-CA-CB	-6.71	97.08	103.39
2	C	333	ALA	CA-C-N	-6.71	109.89	121.97
2	C	333	ALA	C-N-CA	-6.71	109.89	121.97
2	C	305	PHE	CA-C-O	-6.71	114.97	122.01
2	F	220	THR	CA-C-O	-6.71	113.36	120.40
2	G	225	GLY	CA-C-N	-6.71	113.74	123.00
2	G	225	GLY	C-N-CA	-6.71	113.74	123.00
2	A	245	GLN	CB-CA-C	-6.71	97.07	110.42
3	M	146	MET	N-CA-C	6.71	120.10	110.24
2	A	794	PHE	CA-C-O	-6.71	112.92	120.43
2	E	661	THR	N-CA-C	-6.71	100.19	110.32
2	F	768	PHE	N-CA-CB	6.70	121.82	110.49
2	J	197	LYS	N-CA-CB	-6.70	99.17	110.83
2	B	453	TYR	N-CA-CB	-6.70	102.01	110.45
2	E	45	PHE	CA-CB-CG	6.70	120.50	113.80
1	2	21	THR	N-CA-CB	6.70	122.88	111.50
1	4	18	PHE	CA-C-O	-6.69	112.39	120.89
2	H	143	VAL	CA-C-O	-6.69	114.73	121.49
2	C	179	PRO	CB-CA-C	-6.69	100.52	111.56
7	T	3	LYS	O-C-N	-6.69	112.97	121.74
2	H	201	ARG	CA-C-O	-6.69	113.42	120.58
2	C	106	VAL	N-CA-CB	-6.68	100.21	111.23
2	K	302	TYR	CB-CA-C	-6.68	101.90	112.05
2	F	135	TRP	CA-CB-CG	-6.68	100.92	113.60
2	C	604	GLU	CB-CA-C	-6.67	99.87	111.35
2	B	855	MET	N-CA-C	-6.67	103.54	112.94
2	G	726	GLY	CA-C-N	-6.67	111.59	121.99
2	G	726	GLY	C-N-CA	-6.67	111.59	121.99
2	C	788	GLN	CB-CA-C	6.66	118.00	109.80
2	C	767	PHE	CA-CB-CG	6.66	120.45	113.80
2	J	226	GLN	O-C-N	6.66	130.35	121.83
2	L	707	ASN	N-CA-CB	-6.65	99.25	110.49
2	A	271	ASP	CB-CA-C	6.65	123.65	110.42
2	F	734	MET	CA-C-N	-6.65	112.75	122.65
2	F	734	MET	C-N-CA	-6.65	112.75	122.65
2	E	916	THR	CA-CB-OG1	-6.65	99.63	109.60
2	I	405	ILE	N-CA-CB	-6.64	100.27	111.23
6	Q	17	PHE	N-CA-CB	6.64	121.71	110.49
2	F	816	PRO	CA-N-CD	6.64	121.29	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	U	16	GLN	CB-CA-C	-6.64	98.56	110.70
2	L	215	SER	N-CA-CB	-6.63	99.28	110.49
2	H	816	PRO	N-CA-C	6.63	126.13	112.47
2	J	443	ARG	N-CA-CB	6.63	119.62	110.01
2	E	661	THR	CB-CA-C	-6.62	99.69	108.76
6	P	22	THR	CA-CB-OG1	-6.62	99.67	109.60
2	B	250	PRO	N-CA-CB	-6.62	96.30	103.25
2	F	253	PRO	N-CA-C	6.62	126.11	112.47
2	G	428	GLY	CA-C-N	-6.62	110.75	120.75
2	G	428	GLY	C-N-CA	-6.62	110.75	120.75
2	C	373	ASP	N-CA-C	-6.62	102.34	112.99
2	D	159	GLY	CA-C-N	-6.62	112.17	122.69
2	D	159	GLY	C-N-CA	-6.62	112.17	122.69
2	B	300	PRO	CA-N-CD	6.61	121.26	112.00
2	D	256	PRO	CB-CA-C	-6.61	100.65	111.56
2	H	703	SER	CA-C-O	-6.61	113.87	121.47
2	C	180	GLU	N-CA-C	-6.61	95.21	109.81
2	E	887	THR	N-CA-CB	-6.61	100.69	110.86
2	F	229	LEU	N-CA-CB	-6.61	99.27	110.50
2	G	142	LYS	CA-C-N	-6.61	110.08	121.97
2	G	142	LYS	C-N-CA	-6.61	110.08	121.97
2	G	246	PHE	CB-CA-C	-6.61	97.25	111.78
2	A	796	HIS	N-CA-CB	-6.60	98.28	110.56
2	D	738	TRP	N-CA-C	-6.60	102.57	112.54
2	E	794	PHE	CB-CA-C	6.60	123.56	110.42
2	C	802	VAL	CA-C-N	-6.60	115.50	122.30
2	C	802	VAL	C-N-CA	-6.60	115.50	122.30
2	H	818	ASN	CB-CA-C	-6.60	97.29	110.42
2	E	810	ARG	CB-CA-C	-6.59	100.53	111.41
2	D	195	ALA	N-CA-C	-6.59	103.20	111.90
2	E	794	PHE	CA-C-O	-6.59	111.08	120.51
2	G	257	LYS	N-CA-C	-6.59	98.12	108.14
2	H	145	GLY	CA-C-N	-6.59	111.16	122.10
2	H	145	GLY	C-N-CA	-6.59	111.16	122.10
2	C	720	ARG	CB-CA-C	-6.58	97.32	110.42
2	C	448	SER	CA-C-N	-6.58	107.63	121.64
2	C	448	SER	C-N-CA	-6.58	107.63	121.64
2	J	418	TYR	N-CA-C	-6.57	96.80	110.80
1	0	27	PRO	N-CA-C	-6.57	98.93	112.47
2	B	292	THR	N-CA-CB	-6.57	100.37	111.27
2	I	362	MET	CA-C-N	-6.56	111.39	120.71
2	I	362	MET	C-N-CA	-6.56	111.39	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	911	ALA	CA-C-O	-6.56	113.75	121.16
1	4	18	PHE	N-CA-C	-6.55	96.50	107.32
2	G	273	HIS	CA-CB-CG	6.55	120.35	113.80
2	B	257	LYS	CB-CA-C	-6.55	97.39	110.42
2	E	810	ARG	N-CA-CB	-6.55	101.16	110.46
2	H	292	THR	N-CA-C	-6.55	103.45	112.03
2	B	246	PHE	CB-CA-C	-6.54	97.40	110.42
2	G	730	ALA	CA-C-O	-6.54	114.67	121.87
2	I	917	PRO	N-CD-CG	-6.54	93.39	103.20
2	G	247	PHE	CA-CB-CG	-6.54	107.26	113.80
2	G	923	ALA	N-CA-CB	-6.53	99.74	110.52
3	M	146	MET	CB-CA-C	6.53	119.64	109.84
2	L	221	ASN	N-CA-CB	-6.53	99.45	110.49
2	A	626	LEU	CA-C-O	-6.53	113.32	121.55
2	E	661	THR	CA-CB-OG1	-6.52	99.83	109.60
2	D	245	GLN	CA-C-N	-6.51	110.93	122.07
2	D	245	GLN	C-N-CA	-6.51	110.93	122.07
2	F	708	ASP	CB-CA-C	-6.51	97.46	110.42
2	A	294	GLN	CB-CA-C	-6.51	97.46	110.42
2	B	261	TYR	CA-C-O	-6.51	113.55	121.36
2	C	837	PHE	N-CA-CB	-6.51	101.04	111.58
2	A	624	ASN	CA-C-N	-6.51	111.75	121.05
2	A	624	ASN	C-N-CA	-6.51	111.75	121.05
2	J	247	PHE	CA-CB-CG	-6.50	107.30	113.80
2	L	186	THR	CB-CA-C	-6.50	99.02	109.75
4	N	182	LYS	N-CA-C	-6.50	96.95	110.80
2	B	346	TYR	N-CA-CB	6.50	119.40	109.91
2	A	293	GLN	CA-C-O	-6.50	114.45	121.14
2	D	727	TYR	CB-CA-C	-6.50	97.99	109.62
2	H	811	GLU	CA-C-N	-6.49	110.77	123.04
2	H	811	GLU	C-N-CA	-6.49	110.77	123.04
2	C	713	PRO	N-CA-C	6.49	125.84	112.47
2	D	156	LYS	CB-CA-C	-6.49	97.87	110.46
7	T	216	ASP	CB-CA-C	-6.49	101.02	111.28
2	H	733	ASN	CB-CA-C	-6.49	102.08	112.07
2	A	127	LYS	CB-CA-C	6.49	122.14	111.50
2	C	347	GLN	CB-CG-CD	-6.49	101.58	112.60
2	H	293	GLN	CB-CG-CD	-6.48	101.58	112.60
2	L	707	ASN	CB-CA-C	6.48	123.32	110.42
5	O	197	PHE	CA-C-O	-6.48	113.32	120.38
2	C	729	VAL	CB-CA-C	-6.48	100.66	111.29
2	B	138	ASN	N-CA-C	-6.47	102.73	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	738	TRP	N-CA-C	-6.47	102.04	111.30
2	F	101	PHE	CA-C-O	-6.47	113.48	120.92
2	A	710	LEU	N-CA-C	-6.47	103.48	108.78
2	C	360	PHE	CA-CB-CG	6.46	120.27	113.80
2	C	709	ARG	CA-C-O	-6.46	114.54	122.36
2	E	709	ARG	CG-CD-NE	-6.46	97.78	112.00
2	F	247	PHE	CA-CB-CG	6.46	120.26	113.80
2	J	140	LYS	CB-CA-C	-6.46	97.77	113.15
2	G	388	ASN	CA-CB-CG	-6.46	106.14	112.60
2	J	108	ASP	CB-CA-C	-6.46	97.57	110.42
2	C	347	GLN	N-CA-C	-6.46	102.79	112.54
2	C	742	GLN	CB-CG-CD	-6.46	101.62	112.60
2	D	819	TYR	N-CA-CB	6.46	121.86	110.37
2	E	97	ALA	N-CA-C	-6.46	97.05	110.80
2	K	302	TYR	N-CA-CB	-6.46	101.00	110.49
2	K	297	PRO	N-CD-CG	-6.45	93.52	103.20
2	C	332	ASN	CB-CA-C	-6.45	97.58	110.42
2	C	356	ARG	CA-C-N	-6.45	111.95	122.65
2	C	356	ARG	C-N-CA	-6.45	111.95	122.65
2	E	735	THR	CA-CB-OG1	-6.45	99.93	109.60
5	O	118	VAL	CA-C-O	-6.45	114.34	121.17
2	B	863	GLN	CB-CG-CD	-6.45	101.64	112.60
2	F	175	LYS	CB-CA-C	6.44	123.24	110.42
2	A	807	PRO	CA-C-O	-6.44	108.88	120.60
2	F	153	ASN	CB-CA-C	-6.44	99.18	111.48
2	G	924	THR	CB-CA-C	-6.43	99.44	109.61
2	F	140	LYS	CB-CA-C	6.43	120.01	110.62
2	F	185	GLN	CB-CA-C	6.43	123.22	110.42
2	J	435	ILE	CB-CA-C	-6.43	100.74	111.29
2	C	359	TYR	CA-C-O	-6.43	113.33	120.60
2	L	185	GLN	N-CA-C	-6.43	103.52	111.75
1	0	21	PRO	CA-C-N	6.43	133.82	121.54
1	0	21	PRO	C-N-CA	6.43	133.82	121.54
2	F	736	LYS	CA-C-N	-6.43	112.36	122.65
2	F	736	LYS	C-N-CA	-6.43	112.36	122.65
2	I	920	ALA	CA-C-O	-6.42	114.36	121.23
2	B	889	LEU	N-CA-C	-6.42	101.44	110.50
2	D	108	ASP	CB-CA-C	-6.42	101.78	111.73
2	K	251	SER	N-CA-C	-6.42	97.12	110.80
2	E	799	SER	N-CA-C	6.42	119.39	108.67
2	I	917	PRO	CB-CA-C	-6.42	100.97	111.56
2	I	365	GLN	CA-C-O	-6.42	114.51	121.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	315	TYR	CB-CA-C	-6.41	98.66	109.50
2	C	831	SER	N-CA-C	6.41	116.92	107.88
2	D	282	GLN	CA-C-N	-6.41	113.77	119.92
2	D	282	GLN	C-N-CA	-6.41	113.77	119.92
2	C	34	ALA	N-CA-C	-6.40	105.50	113.38
2	G	277	LYS	CB-CA-C	-6.40	97.56	110.17
2	G	923	ALA	CB-CA-C	-6.40	98.72	109.48
6	Q	20	TYR	CB-CA-C	6.40	120.01	109.70
2	E	45	PHE	CA-C-O	-6.39	113.65	121.58
2	G	380	HIS	CA-C-N	-6.39	112.31	122.92
2	G	380	HIS	C-N-CA	-6.39	112.31	122.92
5	O	192	GLY	CA-C-N	6.39	127.83	119.84
5	O	192	GLY	C-N-CA	6.39	127.83	119.84
2	J	204	LYS	CB-CA-C	-6.39	97.71	110.42
2	A	793	PRO	N-CA-CB	-6.38	96.55	103.25
2	E	829	VAL	N-CA-CB	-6.38	102.28	111.21
5	O	116	THR	CA-CB-OG1	-6.38	100.04	109.60
2	K	221	ASN	CB-CA-C	-6.37	97.74	110.42
2	C	325	ALA	CB-CA-C	-6.37	100.26	112.43
2	C	391	PHE	CA-CB-CG	6.37	120.17	113.80
2	G	330	GLN	CB-CG-CD	-6.37	101.77	112.60
2	J	865	MET	N-CA-CB	6.37	118.47	110.45
2	F	250	PRO	CB-CA-C	6.37	122.06	111.56
2	D	134	GLU	N-CA-C	-6.36	99.74	109.41
2	L	699	ASP	CB-CA-C	6.36	123.08	110.42
2	J	144	ARG	N-CA-C	6.36	118.85	109.24
2	F	226	GLN	CB-CG-CD	-6.36	101.79	112.60
2	J	228	SER	O-C-N	6.36	129.02	122.09
2	B	340	ARG	CB-CG-CD	-6.36	96.68	111.30
2	C	587	ASN	CA-C-O	-6.36	113.98	121.16
2	L	190	SER	N-CA-C	-6.35	103.98	111.03
2	A	268	GLU	CB-CA-C	-6.35	99.65	112.99
2	F	125	ALA	CB-CA-C	-6.35	100.12	109.97
2	F	297	PRO	CA-N-CD	6.35	120.89	112.00
2	D	122	ASN	N-CA-C	-6.35	97.28	110.80
2	B	672	PHE	CB-CA-C	-6.34	100.44	110.85
2	E	824	ILE	CA-C-N	-6.34	116.49	121.82
2	E	824	ILE	C-N-CA	-6.34	116.49	121.82
2	J	223	LYS	N-CA-C	-6.34	97.30	110.80
2	H	729	VAL	CB-CA-C	-6.34	100.90	111.29
2	B	852	PHE	CA-C-O	-6.33	111.45	120.51
2	B	648	PHE	CB-CA-C	-6.33	97.82	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	139	ASN	CB-CA-C	6.33	123.01	110.42
2	G	355	ASP	CA-C-N	-6.33	110.97	121.92
2	G	355	ASP	C-N-CA	-6.33	110.97	121.92
2	G	249	LEU	CB-CA-C	-6.33	99.62	109.11
2	C	170	PRO	CB-CA-C	-6.33	101.12	111.56
1	1	9	LEU	N-CA-CB	-6.32	99.80	110.49
2	J	411	THR	CB-CA-C	6.32	123.00	110.42
2	C	819	TYR	CB-CA-C	-6.32	97.72	110.17
2	D	145	GLY	N-CA-C	6.32	120.32	110.91
2	G	297	PRO	N-CD-CG	-6.31	93.74	103.20
2	I	132	PRO	N-CD-CG	-6.31	93.74	103.20
2	B	322	GLY	CA-C-N	-6.30	110.62	121.97
2	B	322	GLY	C-N-CA	-6.30	110.62	121.97
6	R	21	LEU	CA-C-N	6.30	131.07	122.19
6	R	21	LEU	C-N-CA	6.30	131.07	122.19
2	C	392	PRO	CA-N-CD	6.30	120.81	112.00
2	B	441	LEU	N-CA-C	-6.29	97.40	110.80
2	C	576	VAL	N-CA-C	-6.29	106.57	113.43
2	C	730	ALA	N-CA-C	-6.29	97.40	110.80
2	A	627	TYR	CA-C-O	-6.29	111.55	120.16
2	B	254	ASN	CB-CA-C	6.29	121.45	111.51
2	D	128	THR	CA-C-O	-6.29	115.36	121.02
2	C	703	SER	CA-C-O	-6.29	114.71	121.94
2	D	720	ARG	CB-CA-C	-6.28	97.92	110.42
2	K	299	ARG	CG-CD-NE	-6.28	98.18	112.00
2	E	808	THR	CB-CA-C	6.28	122.91	110.42
2	G	717	GLU	CA-C-O	-6.27	113.54	120.38
2	B	360	PHE	CB-CA-C	6.27	122.14	111.35
2	G	373	ASP	CB-CA-C	6.27	123.23	110.75
1	4	13	HIS	CA-CB-CG	-6.27	107.53	113.80
2	G	917	PRO	N-CA-C	6.27	125.39	112.47
3	M	162	PHE	CB-CA-C	6.27	120.01	109.48
2	G	342	THR	CA-C-N	-6.27	110.97	122.31
2	G	342	THR	C-N-CA	-6.27	110.97	122.31
2	D	416	ASP	CB-CA-C	6.26	122.62	109.65
2	D	114	LYS	CA-C-O	-6.26	114.64	119.71
2	J	99	THR	CA-CB-OG1	-6.26	100.21	109.60
2	K	215	SER	CA-C-N	6.26	133.49	121.54
2	K	215	SER	C-N-CA	6.26	133.49	121.54
2	A	219	PRO	N-CA-C	6.26	120.28	111.33
2	K	263	GLU	CB-CG-CD	6.26	123.24	112.60
2	C	606	MET	N-CA-C	-6.25	105.43	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	16	ARG	CB-CA-C	6.25	122.48	110.17
2	J	424	GLU	CA-C-O	-6.25	114.34	121.72
2	B	838	LEU	CB-CA-C	-6.25	99.64	109.70
2	C	720	ARG	N-CA-C	-6.25	97.49	110.80
2	H	706	GLY	CA-C-N	-6.25	111.33	121.26
2	H	706	GLY	C-N-CA	-6.25	111.33	121.26
2	J	431	PHE	CB-CA-C	-6.25	100.47	109.84
2	A	623	ALA	CA-C-N	-6.25	109.61	121.54
2	A	623	ALA	C-N-CA	-6.25	109.61	121.54
2	B	360	PHE	N-CA-CB	6.24	120.39	111.65
2	G	698	PHE	CA-C-O	-6.24	111.45	121.94
2	H	793	PRO	CA-C-N	-6.24	110.56	120.17
2	H	793	PRO	C-N-CA	-6.24	110.56	120.17
2	E	71	VAL	N-CA-C	-6.23	106.36	111.91
2	C	610	ASP	CB-CA-C	-6.23	99.03	109.75
2	D	219	PRO	N-CA-CB	-6.23	96.71	103.25
2	E	820	PRO	N-CD-CG	-6.23	93.86	103.20
2	C	382	VAL	N-CA-C	-6.23	96.39	109.34
2	C	705	PRO	N-CA-CB	-6.22	96.71	103.25
2	G	253	PRO	N-CA-C	6.22	125.28	112.47
2	D	126	PRO	N-CA-C	6.22	125.28	112.47
2	C	219	PRO	CB-CA-C	-6.22	102.84	110.98
2	E	819	TYR	CB-CA-C	-6.21	97.93	110.17
2	K	255	GLU	CB-CA-C	6.21	118.37	109.92
2	B	241	ASP	CB-CA-C	-6.21	98.77	110.51
2	B	480	ARG	CB-CA-C	6.21	121.65	111.41
2	G	379	ASN	CB-CA-C	-6.21	98.07	110.42
2	H	284	THR	CB-CA-C	-6.20	97.43	110.45
3	M	63	ASP	CB-CA-C	-6.20	98.08	110.42
2	H	226	GLN	CA-C-N	-6.20	111.95	121.74
2	H	226	GLN	C-N-CA	-6.20	111.95	121.74
2	L	201	ARG	CB-CA-C	6.20	120.84	110.43
2	B	270	PRO	N-CD-CG	-6.19	93.91	103.20
2	J	241	ASP	CA-CB-CG	6.19	118.79	112.60
2	J	428	GLY	N-CA-C	6.19	117.81	111.56
2	C	455	PRO	CA-N-CD	6.19	120.67	112.00
2	I	422	GLY	N-CA-C	-6.19	98.51	113.18
2	A	439	ALA	N-CA-C	-6.19	104.45	112.68
2	G	351	ASP	CA-C-N	-6.19	109.72	121.54
2	G	351	ASP	C-N-CA	-6.19	109.72	121.54
2	L	138	ASN	CB-CA-C	-6.19	98.11	110.42
2	L	199	ALA	CA-C-O	-6.19	113.32	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	262	ALA	CA-C-N	-6.18	111.44	122.32
2	C	262	ALA	C-N-CA	-6.18	111.44	122.32
2	L	179	PRO	CA-C-N	-6.18	115.86	123.21
2	L	179	PRO	C-N-CA	-6.18	115.86	123.21
2	B	816	PRO	N-CA-CB	-6.17	96.21	103.00
2	C	820	PRO	CA-C-N	-6.17	110.67	121.35
2	C	820	PRO	C-N-CA	-6.17	110.67	121.35
2	A	274	LEU	CA-C-O	-6.17	114.40	121.19
2	A	52	PRO	N-CA-CB	-6.17	96.77	103.25
2	C	830	PRO	CA-C-N	-6.17	111.47	122.45
2	C	830	PRO	C-N-CA	-6.17	111.47	122.45
2	G	264	ASN	N-CA-C	-6.17	103.14	110.41
7	U	17	MET	N-CA-C	-6.17	97.67	110.80
1	0	23	HIS	CB-CA-C	6.16	122.68	110.42
1	0	28	PHE	CA-CB-CG	6.16	119.96	113.80
1	2	18	PHE	CA-C-O	-6.16	114.11	120.89
1	5	18	PHE	N-CA-C	-6.16	97.68	110.80
2	C	822	PRO	N-CA-CB	-6.16	96.78	103.25
2	F	771	PHE	CA-CB-CG	6.15	119.95	113.80
2	B	182	GLN	CB-CA-C	-6.15	98.18	110.42
2	B	818	ASN	CB-CA-C	-6.15	98.18	110.42
2	G	305	PHE	CA-C-N	-6.15	112.19	122.64
2	G	305	PHE	C-N-CA	-6.15	112.19	122.64
2	B	896	PHE	CA-C-O	-6.15	114.86	121.56
2	H	300	PRO	CA-N-CD	6.14	120.60	112.00
2	C	157	ASP	N-CA-C	-6.14	104.85	112.47
2	D	820	PRO	N-CA-C	-6.14	99.81	112.47
2	J	106	VAL	CA-C-O	-6.14	115.16	121.67
2	C	263	GLU	CB-CA-C	-6.14	99.39	112.78
2	B	889	LEU	CA-C-O	-6.14	114.87	121.56
2	D	130	PRO	N-CD-CG	-6.14	93.99	103.20
2	J	153	ASN	CA-CB-CG	-6.13	106.47	112.60
2	G	314	TYR	CB-CA-C	-6.13	101.38	111.68
2	G	392	PRO	CA-C-O	-6.13	114.05	122.15
2	C	207	THR	CA-CB-OG1	-6.13	100.40	109.60
2	I	329	SER	N-CA-C	-6.13	107.63	114.62
2	F	157	ASP	CA-C-N	-6.12	111.09	122.60
2	F	157	ASP	C-N-CA	-6.12	111.09	122.60
2	H	186	THR	N-CA-CB	6.12	121.23	110.27
5	O	262	LEU	CA-C-N	-6.12	109.41	121.41
5	O	262	LEU	C-N-CA	-6.12	109.41	121.41
2	C	104	ARG	CB-CA-C	-6.12	98.24	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	M	386	VAL	N-CA-C	6.12	119.62	111.17
2	G	918	PHE	N-CA-C	-6.12	97.77	110.80
2	A	343	GLU	N-CA-C	-6.11	105.73	113.43
2	H	807	PRO	N-CA-C	-6.11	103.47	112.26
2	H	809	MET	CA-C-N	-6.11	114.36	122.85
2	H	809	MET	C-N-CA	-6.11	114.36	122.85
2	C	34	ALA	CA-C-N	-6.11	112.81	122.76
2	C	34	ALA	C-N-CA	-6.11	112.81	122.76
2	D	732	CYS	CB-CA-C	-6.11	98.27	110.42
2	D	820	PRO	N-CD-CG	-6.10	94.04	103.20
2	J	189	ASN	CB-CA-C	-6.10	98.27	110.42
2	B	359	TYR	CA-C-O	-6.10	113.42	120.31
2	A	217	ALA	CA-C-O	-6.10	114.58	120.92
2	G	274	LEU	CA-C-O	-6.10	115.15	120.88
2	J	44	LYS	CB-CA-C	-6.10	101.39	111.51
2	L	138	ASN	N-CA-C	-6.10	97.81	110.80
7	T	213	LEU	N-CA-CB	-6.09	100.19	110.49
2	B	347	GLN	CB-CG-CD	-6.09	102.25	112.60
2	C	357	SER	N-CA-C	-6.09	106.11	112.93
2	D	102	ASP	CA-CB-CG	6.08	118.69	112.60
2	C	736	LYS	CA-C-N	-6.08	112.87	122.79
2	C	736	LYS	C-N-CA	-6.08	112.87	122.79
2	H	142	LYS	CB-CA-C	-6.08	98.54	110.10
2	B	147	ALA	CA-C-N	6.08	127.44	119.84
2	B	147	ALA	C-N-CA	6.08	127.44	119.84
2	J	442	TRP	N-CA-CB	6.08	119.12	110.67
2	C	351	ASP	N-CA-C	-6.08	104.28	113.89
2	C	103	ILE	N-CA-CB	-6.08	101.20	111.23
2	F	295	ALA	CB-CA-C	-6.08	98.33	110.42
2	A	793	PRO	CA-C-N	-6.08	114.10	122.30
2	A	793	PRO	C-N-CA	-6.08	114.10	122.30
2	C	35	THR	CB-CA-C	-6.08	103.44	111.82
2	C	725	GLU	N-CA-C	-6.08	105.58	112.87
2	K	253	PRO	N-CA-C	-6.08	99.96	112.47
2	J	915	ARG	CA-C-O	-6.07	115.11	121.55
2	K	252	THR	CB-CA-C	-6.07	98.21	110.17
2	C	293	GLN	N-CA-CB	-6.07	100.23	110.49
2	E	748	ASN	CB-CA-C	-6.07	98.34	110.42
2	I	360	PHE	CA-CB-CG	6.07	119.87	113.80
2	J	177	TYR	CB-CA-C	-6.07	98.35	110.42
4	N	191	LYS	CA-C-O	-6.06	113.69	120.54
2	B	326	GLY	CA-C-O	-6.06	115.85	120.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	U	15	PRO	CA-C-N	-6.06	110.22	120.58
7	U	15	PRO	C-N-CA	-6.06	110.22	120.58
2	B	343	GLU	CB-CA-C	6.05	122.83	112.00
2	C	457	SER	N-CA-C	-6.05	97.91	110.80
2	J	143	VAL	CA-C-O	-6.05	113.22	120.78
2	F	166	THR	CB-CA-C	6.05	122.46	110.42
2	B	443	ARG	CB-CA-C	-6.04	101.14	110.81
2	C	131	ASN	CB-CA-C	6.04	119.07	109.52
2	G	396	SER	N-CA-CB	-6.04	100.28	110.49
2	C	380	HIS	CB-CA-C	-6.04	98.40	110.42
2	D	177	TYR	N-CA-C	6.04	118.36	109.24
2	D	824	ILE	CB-CA-C	-6.04	101.39	111.29
2	C	213	TYR	CB-CA-C	-6.04	98.41	110.42
2	C	281	ALA	CA-C-N	-6.04	112.30	122.92
2	C	281	ALA	C-N-CA	-6.04	112.30	122.92
2	D	801	PHE	CA-CB-CG	6.03	119.83	113.80
2	E	780	ASN	CB-CA-C	-6.03	98.41	110.42
1	8	11	PRO	CA-N-CD	-6.03	103.56	112.00
2	J	421	ARG	CA-C-N	-6.03	109.59	121.41
2	J	421	ARG	C-N-CA	-6.03	109.59	121.41
2	F	773	PRO	N-CD-CG	-6.03	94.16	103.20
2	C	458	TYR	CB-CA-C	-6.03	98.43	110.42
2	B	355	ASP	CA-C-N	-6.02	110.11	122.58
2	B	355	ASP	C-N-CA	-6.02	110.11	122.58
2	J	144	ARG	N-CA-CB	6.02	122.17	111.69
2	B	899	VAL	CA-C-O	-6.02	114.20	120.64
2	E	828	ALA	CA-C-O	-6.02	113.87	120.43
2	F	100	TYR	CA-C-O	-6.02	112.09	120.21
1	5	22	TRP	CB-CA-C	6.01	120.33	110.83
2	G	142	LYS	CB-CA-C	-6.01	98.45	110.42
2	G	903	GLN	N-CA-CB	-6.01	99.68	110.37
2	F	135	TRP	N-CA-C	6.00	118.63	110.35
2	G	438	ALA	N-CA-CB	6.00	120.63	110.49
2	C	768	PHE	CA-C-N	-6.00	110.08	121.54
2	C	768	PHE	C-N-CA	-6.00	110.08	121.54
2	D	202	VAL	CA-C-O	-6.00	113.78	121.40
2	J	321	MET	CB-CA-C	-6.00	98.87	113.15
2	D	138	ASN	N-CA-C	6.00	118.54	107.99
6	S	10	VAL	CB-CA-C	-6.00	101.46	111.29
2	F	812	GLY	O-C-N	-5.99	112.31	123.16
2	E	141	ILE	CB-CA-C	5.99	121.12	111.29
2	I	811	GLU	CA-C-O	-5.99	114.15	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	771	PHE	CA-CB-CG	5.99	119.79	113.80
2	H	208	PRO	CB-CA-C	-5.99	103.72	111.39
2	L	206	THR	CB-CA-C	-5.99	101.78	111.06
2	J	138	ASN	N-CA-C	-5.99	105.69	112.87
2	A	432	ALA	N-CA-CB	-5.99	101.42	110.40
2	C	743	MET	N-CA-C	-5.99	104.67	111.07
2	F	275	VAL	CA-C-O	-5.99	113.30	120.78
2	B	909	ILE	CA-C-N	-5.98	114.56	122.99
2	B	909	ILE	C-N-CA	-5.98	114.56	122.99
2	C	711	LEU	N-CA-C	-5.98	100.59	109.86
2	A	816	PRO	CA-C-N	-5.98	113.24	122.87
2	A	816	PRO	C-N-CA	-5.98	113.24	122.87
2	D	282	GLN	CB-CA-C	-5.98	97.90	110.45
2	G	351	ASP	N-CA-C	-5.98	104.40	111.03
2	H	278	PRO	N-CA-C	-5.98	102.08	111.34
2	B	340	ARG	CA-C-O	-5.97	115.22	121.55
2	K	292	THR	CB-CA-C	-5.97	98.54	110.42
2	E	822	PRO	CA-C-N	-5.97	113.29	122.60
2	E	822	PRO	C-N-CA	-5.97	113.29	122.60
2	J	426	GLU	CB-CG-CD	-5.97	102.45	112.60
2	D	270	PRO	CA-C-N	-5.97	112.33	121.40
2	D	270	PRO	C-N-CA	-5.97	112.33	121.40
2	G	714	ASN	CA-C-O	-5.97	114.40	120.84
2	F	819	TYR	CA-C-O	5.96	128.33	120.16
2	B	900	ARG	CB-CA-C	-5.96	102.88	111.70
2	C	445	PHE	N-CA-C	-5.96	103.46	112.04
2	G	699	ASP	N-CA-CB	5.96	120.56	110.49
2	E	703	SER	N-CA-CB	-5.96	100.42	110.49
2	B	377	ILE	CA-C-O	-5.95	113.34	120.78
2	L	156	LYS	N-CA-CB	-5.95	102.62	111.43
2	F	210	LEU	CA-C-N	5.95	127.28	119.84
2	F	210	LEU	C-N-CA	5.95	127.28	119.84
2	H	218	LYS	CA-C-N	-5.95	113.81	119.76
2	H	218	LYS	C-N-CA	-5.95	113.81	119.76
2	L	148	PRO	N-CA-CB	-5.95	97.01	103.25
2	B	842	THR	CA-C-N	-5.94	114.73	123.05
2	B	842	THR	C-N-CA	-5.94	114.73	123.05
2	C	101	PHE	CA-C-O	-5.94	114.71	121.72
2	D	816	PRO	N-CA-C	5.94	124.71	112.47
2	B	886	PRO	N-CD-CG	-5.94	94.29	103.20
2	D	154	ILE	CA-C-N	-5.94	113.11	122.73
2	D	154	ILE	C-N-CA	-5.94	113.11	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	698	PHE	N-CA-C	-5.94	101.20	110.17
2	E	793	PRO	CB-CA-C	-5.94	101.76	111.56
1	0	26	ARG	CB-CG-CD	5.93	124.94	111.30
2	B	442	TRP	CA-C-N	-5.93	112.53	120.54
2	B	442	TRP	C-N-CA	-5.93	112.53	120.54
2	B	476	TYR	CA-C-N	-5.93	110.21	121.54
2	B	476	TYR	C-N-CA	-5.93	110.21	121.54
2	E	730	ALA	CB-CA-C	-5.93	98.62	110.42
2	F	764	MET	CA-C-N	-5.93	113.19	122.08
2	F	764	MET	C-N-CA	-5.93	113.19	122.08
2	G	910	GLU	CA-C-O	-5.93	114.69	121.68
2	H	201	ARG	CB-CA-C	-5.93	101.03	110.81
2	L	220	THR	N-CA-C	5.92	117.54	111.14
2	C	269	ALA	CB-CA-C	-5.92	98.50	110.17
2	J	197	LYS	CB-CA-C	5.92	120.68	109.37
2	D	416	ASP	CA-CB-CG	-5.92	106.68	112.60
2	F	380	HIS	CA-CB-CG	-5.92	107.88	113.80
4	N	192	VAL	CA-C-O	-5.92	114.77	121.75
6	Q	21	LEU	CA-C-O	-5.92	115.11	121.56
2	B	384	ASP	CB-CA-C	-5.91	101.61	110.24
2	H	277	LYS	CB-CA-C	-5.91	99.99	109.69
2	C	342	THR	CB-CA-C	-5.91	98.65	110.42
2	C	438	ALA	CA-C-N	-5.91	112.74	122.79
2	C	438	ALA	C-N-CA	-5.91	112.74	122.79
2	A	787	TYR	N-CA-C	-5.91	106.05	113.20
2	J	121	TYR	CB-CA-C	5.91	122.18	110.42
6	R	19	PRO	CA-C-O	-5.91	109.85	120.60
2	F	387	PRO	CA-N-CD	5.90	120.26	112.00
2	F	816	PRO	CB-CA-C	5.90	121.29	111.56
2	B	910	GLU	CA-C-O	-5.90	113.99	120.36
2	G	373	ASP	N-CA-C	-5.90	103.81	111.71
2	J	427	SER	CA-C-N	-5.90	114.40	122.42
2	J	427	SER	C-N-CA	-5.90	114.40	122.42
2	J	144	ARG	CG-CD-NE	-5.89	99.03	112.00
2	D	273	HIS	CA-C-O	-5.89	114.62	122.51
2	B	339	ASP	CB-CA-C	-5.89	98.71	110.42
2	K	213	TYR	N-CA-C	-5.88	104.49	112.26
2	A	273	HIS	CA-C-O	-5.88	114.42	120.54
2	A	705	PRO	N-CD-CG	-5.88	94.38	103.20
2	C	147	ALA	N-CA-C	5.88	113.42	108.13
2	D	363	TRP	CA-CB-CG	5.88	124.77	113.60
2	E	700	SER	N-CA-C	-5.88	98.28	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	95	ASP	CA-CB-CG	-5.88	106.72	112.60
2	A	5	SER	CA-C-N	-5.88	113.26	122.49
2	A	5	SER	C-N-CA	-5.88	113.26	122.49
2	J	865	MET	N-CA-C	-5.88	102.51	110.68
2	C	370	TYR	CB-CA-C	-5.88	97.72	109.35
2	J	259	VAL	N-CA-CB	-5.88	105.53	112.40
2	J	421	ARG	CB-CA-C	-5.88	99.61	109.48
2	B	211	PRO	CB-CA-C	-5.87	101.87	111.56
2	J	256	PRO	N-CD-CG	-5.87	94.39	103.20
7	T	214	TYR	CB-CA-C	-5.87	98.60	110.17
2	G	923	ALA	CA-C-O	-5.87	114.28	120.80
5	O	260	SER	CB-CA-C	-5.87	98.73	110.42
2	C	388	ASN	CA-C-O	-5.87	115.36	120.88
2	E	50	VAL	CB-CA-C	-5.87	102.02	111.59
2	G	397	ALA	CA-C-O	-5.87	114.46	120.80
1	5	16	ARG	CB-CA-C	5.87	121.73	110.17
2	L	176	THR	OG1-CB-CG2	5.87	121.04	109.30
2	B	910	GLU	CB-CA-C	-5.87	98.97	109.71
2	E	475	ALA	N-CA-C	-5.87	105.72	114.64
2	G	365	GLN	N-CA-CB	5.87	118.23	110.25
2	G	336	ASP	CB-CA-C	-5.87	101.23	112.43
2	J	200	GLY	CA-C-O	-5.87	116.86	120.91
2	J	383	GLU	CA-C-O	-5.86	115.32	122.64
1	2	20	GLY	CA-C-O	-5.86	114.37	121.98
2	B	241	ASP	CA-C-O	-5.86	115.04	121.89
2	F	162	ILE	CA-C-O	-5.86	115.18	121.27
2	F	183	VAL	CA-C-O	-5.85	113.46	120.78
2	E	803	GLY	N-CA-C	5.84	121.51	111.98
2	H	213	TYR	CB-CA-C	5.84	123.46	110.02
2	I	406	LYS	CA-C-N	-5.84	110.12	120.99
2	I	406	LYS	C-N-CA	-5.84	110.12	120.99
2	C	134	GLU	CB-CG-CD	5.84	122.53	112.60
2	F	795	GLN	N-CA-C	-5.84	101.82	110.46
2	B	887	THR	CB-CA-C	-5.84	99.92	111.60
2	C	758	GLU	CB-CA-C	-5.84	97.72	109.68
3	M	127	THR	OG1-CB-CG2	5.84	120.97	109.30
2	B	897	ASP	CA-C-O	-5.83	116.25	121.67
2	C	770	ASN	CB-CA-C	5.83	122.03	110.42
2	B	860	ASP	CB-CA-C	-5.83	98.81	110.42
5	O	197	PHE	CA-C-N	5.83	130.41	122.19
5	O	197	PHE	C-N-CA	5.83	130.41	122.19
2	G	299	ARG	CB-CA-C	5.83	119.02	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	197	LYS	CA-C-O	-5.82	114.41	120.70
2	C	385	GLU	N-CA-CB	-5.82	101.72	110.91
2	D	149	PHE	CB-CA-C	-5.82	100.73	114.16
2	J	243	ASN	CB-CA-C	-5.81	97.28	110.07
2	A	812	GLY	CA-C-O	-5.81	117.22	122.57
2	F	705	PRO	CA-C-N	-5.81	110.03	121.41
2	F	705	PRO	C-N-CA	-5.81	110.03	121.41
2	I	175	LYS	N-CA-C	-5.81	98.43	110.80
3	M	479	THR	OG1-CB-CG2	5.81	120.92	109.30
2	H	291	LEU	CB-CA-C	-5.81	104.02	111.22
4	N	173	MET	CB-CG-SD	-5.81	95.28	112.70
2	B	901	ILE	N-CA-CB	-5.80	101.65	111.23
2	C	755	TYR	CA-CB-CG	5.80	124.35	113.90
2	D	820	PRO	CB-CA-C	-5.80	101.98	111.56
2	L	220	THR	CA-C-N	-5.80	110.45	121.54
2	L	220	THR	C-N-CA	-5.80	110.45	121.54
5	O	215	ASN	CB-CA-C	-5.80	100.02	110.35
2	G	437	LEU	CA-C-N	-5.80	110.45	121.54
2	G	437	LEU	C-N-CA	-5.80	110.45	121.54
2	C	745	SER	N-CA-C	-5.80	106.12	113.43
2	G	96	MET	CB-CG-SD	-5.80	95.30	112.70
2	B	920	ALA	N-CA-C	5.80	117.67	108.79
2	C	31	PHE	CB-CA-C	-5.80	98.88	110.42
2	D	412	TRP	CA-C-O	-5.80	114.91	120.94
2	L	708	ASP	CA-C-O	-5.80	113.48	119.51
2	B	359	TYR	N-CA-CB	-5.80	101.14	110.77
2	J	213	TYR	N-CA-C	-5.80	104.61	112.26
2	L	142	LYS	CA-C-O	-5.80	114.61	121.16
2	G	261	TYR	CA-C-O	-5.80	114.14	120.81
2	K	257	LYS	CB-CA-C	-5.79	98.89	110.42
2	B	363	TRP	CA-CB-CG	5.79	124.61	113.60
2	B	438	ALA	N-CA-CB	5.79	120.28	110.49
2	C	219	PRO	CA-C-O	-5.79	114.60	121.67
2	G	718	ILE	CA-C-O	-5.79	113.54	120.78
2	F	201	ARG	N-CA-CB	-5.79	102.07	110.70
2	G	360	PHE	CA-CB-CG	5.79	119.59	113.80
2	L	697	MET	O-C-N	-5.79	116.54	123.31
2	E	705	PRO	CA-C-N	-5.78	114.35	122.85
2	E	705	PRO	C-N-CA	-5.78	114.35	122.85
4	N	193	ASP	N-CA-CB	5.78	120.33	110.50
2	G	295	ALA	CB-CA-C	-5.78	101.95	113.80
2	C	775	SER	N-CA-CB	-5.78	102.05	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	127	LYS	N-CA-CB	5.78	120.25	110.49
2	B	297	PRO	CA-C-O	-5.78	114.96	122.12
2	B	670	PRO	CA-C-N	-5.78	114.41	123.13
2	B	670	PRO	C-N-CA	-5.78	114.41	123.13
2	C	727	TYR	CA-C-O	-5.78	112.51	119.27
2	E	96	MET	CA-C-N	-5.78	110.51	121.54
2	E	96	MET	C-N-CA	-5.78	110.51	121.54
7	T	7	THR	CA-C-N	5.78	125.78	119.89
7	T	7	THR	C-N-CA	5.78	125.78	119.89
2	C	447	TYR	CA-C-N	-5.77	110.52	121.54
2	C	447	TYR	C-N-CA	-5.77	110.52	121.54
2	B	896	PHE	N-CA-C	-5.77	102.36	110.50
1	6	12	ARG	CB-CA-C	5.77	121.26	109.67
2	B	300	PRO	CB-CA-C	-5.77	102.04	111.56
2	C	573	ASP	CB-CA-C	-5.76	101.31	111.05
2	C	793	PRO	N-CA-C	-5.76	104.70	112.48
2	F	647	ALA	CA-C-O	-5.75	112.28	120.51
5	O	119	GLN	CB-CA-C	5.75	121.87	110.42
2	B	297	PRO	N-CA-CB	-5.75	96.73	103.23
2	F	774	MET	CA-C-O	-5.75	114.27	121.46
2	D	256	PRO	N-CA-C	5.75	124.32	112.47
2	E	709	ARG	N-CA-C	-5.75	104.93	111.14
2	L	706	GLY	CA-C-O	-5.75	117.28	122.57
2	J	243	ASN	CA-C-O	-5.75	114.91	121.40
2	F	382	VAL	CB-CA-C	-5.75	104.01	110.96
2	K	216	TYR	CB-CA-C	5.74	121.85	110.42
2	B	658	THR	CA-C-O	-5.74	114.99	120.90
2	C	822	PRO	CA-N-CD	5.74	120.03	112.00
1	5	19	MET	CB-CA-C	-5.74	98.94	110.30
2	B	679	PRO	N-CD-CG	-5.74	94.60	103.20
2	G	330	GLN	N-CA-C	-5.73	103.65	111.56
2	F	794	PHE	N-CA-C	5.73	119.40	111.55
2	A	210	LEU	N-CA-CB	-5.73	105.09	111.10
5	O	193	PRO	CA-N-CD	-5.73	103.98	112.00
2	A	709	ARG	CB-CA-C	5.72	120.39	110.94
2	B	450	VAL	N-CA-CB	5.72	120.67	111.23
2	H	182	GLN	N-CA-C	5.72	122.99	110.80
2	B	342	THR	N-CA-C	-5.72	106.20	112.72
2	C	300	PRO	CA-C-N	-5.72	113.95	123.33
2	C	300	PRO	C-N-CA	-5.72	113.95	123.33
3	M	228	THR	OG1-CB-CG2	5.72	120.74	109.30
3	M	247	THR	OG1-CB-CG2	5.72	120.74	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	208	PRO	CA-C-O	-5.72	114.90	121.36
2	E	47	ASN	CB-CA-C	-5.72	98.91	110.17
2	L	228	SER	CA-C-N	-5.72	114.72	122.95
2	L	228	SER	C-N-CA	-5.72	114.72	122.95
2	E	798	ASN	N-CA-C	-5.71	98.63	110.80
2	K	206	THR	CA-CB-OG1	-5.71	101.03	109.60
2	B	833	THR	CA-C-O	-5.71	114.73	120.96
2	J	149	PHE	CB-CA-C	5.71	121.78	110.42
2	F	297	PRO	N-CA-C	-5.71	100.71	112.47
2	J	207	THR	N-CA-CB	-5.71	100.21	110.37
1	8	11	PRO	N-CA-C	-5.71	97.83	112.10
2	C	232	ASN	N-CA-C	5.71	117.86	109.24
2	H	300	PRO	N-CD-CG	-5.71	94.64	103.20
6	S	50	SER	N-CA-C	5.71	118.91	110.46
2	B	443	ARG	CA-C-O	-5.71	114.80	120.90
2	B	684	THR	CA-CB-OG1	-5.70	101.04	109.60
2	H	144	ARG	N-CA-CB	5.70	120.13	110.49
2	K	289	ASP	CB-CA-C	5.70	121.77	110.42
4	N	173	MET	CA-C-O	-5.70	115.25	121.87
2	J	48	PRO	CA-C-O	-5.70	114.78	122.08
2	D	174	ASP	CB-CA-C	-5.70	102.27	111.28
2	G	390	CYS	CB-CA-C	-5.70	103.68	111.95
2	I	839	CYS	CB-CA-C	-5.70	103.94	112.09
2	B	351	ASP	N-CA-CB	5.70	118.15	109.94
2	J	711	LEU	CA-C-O	-5.70	114.35	121.02
2	B	370	TYR	CB-CA-C	-5.70	100.70	110.16
2	A	814	ALA	CA-C-N	-5.69	112.92	123.11
2	A	814	ALA	C-N-CA	-5.69	112.92	123.11
2	C	310	ILE	N-CA-CB	5.69	118.42	110.56
2	H	261	TYR	CA-C-O	-5.69	114.23	120.43
2	J	870	SER	CA-C-O	-5.69	114.72	121.66
1	2	17	PRO	N-CA-C	5.69	124.19	112.47
2	C	450	VAL	CB-CA-C	-5.69	101.96	111.29
2	G	426	GLU	N-CA-CB	-5.68	102.41	111.62
2	F	135	TRP	CA-C-O	-5.68	115.46	121.88
2	G	349	MET	CA-C-N	-5.68	111.48	120.63
2	G	349	MET	C-N-CA	-5.68	111.48	120.63
2	H	807	PRO	CA-N-CD	5.68	119.95	112.00
5	O	113	TYR	N-CA-CB	-5.68	100.89	110.49
2	B	379	ASN	CA-C-O	-5.68	115.31	122.63
2	B	380	HIS	CB-CA-C	-5.68	98.80	110.38
2	D	275	VAL	CA-C-O	-5.68	113.68	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	393	LEU	N-CA-C	-5.68	101.78	110.30
2	H	153	ASN	CA-CB-CG	-5.68	106.92	112.60
2	C	133	CYS	CA-C-O	-5.67	114.80	121.44
2	B	349	MET	N-CA-CB	5.67	119.19	110.46
2	I	412	TRP	CA-CB-CG	-5.67	102.82	113.60
2	C	215	SER	N-CA-C	5.67	117.98	108.23
2	F	172	TYR	CB-CA-C	5.67	121.70	110.42
2	H	149	PHE	CA-C-N	-5.67	114.19	122.58
2	H	149	PHE	C-N-CA	-5.67	114.19	122.58
2	H	705	PRO	CA-C-N	-5.67	111.43	122.82
2	H	705	PRO	C-N-CA	-5.67	111.43	122.82
2	D	407	ALA	CA-C-O	-5.67	114.46	120.92
2	H	285	ILE	N-CA-C	-5.67	100.53	108.12
2	G	274	LEU	N-CA-C	5.66	119.02	110.64
2	G	379	ASN	N-CA-CB	5.66	120.06	110.49
2	F	103	ILE	CA-C-O	-5.66	114.66	121.28
2	D	733	ASN	CA-C-O	-5.66	112.42	120.51
2	F	824	ILE	CB-CA-C	-5.66	102.01	111.29
1	6	12	ARG	N-CA-C	-5.66	105.49	112.90
2	B	915	ARG	CG-CD-NE	-5.66	99.56	112.00
2	H	126	PRO	N-CA-C	-5.65	101.36	110.74
2	F	105	GLY	N-CA-C	5.65	119.76	110.77
2	F	202	VAL	CB-CA-C	-5.65	102.02	111.29
2	E	728	ASN	CA-C-O	-5.65	114.83	121.16
1	8	15	SER	CA-C-O	-5.64	112.44	120.51
2	G	275	VAL	CA-C-O	-5.64	113.72	120.78
2	G	715	GLU	CB-CG-CD	-5.64	103.00	112.60
2	G	398	ALA	CA-C-N	-5.64	110.76	121.54
2	G	398	ALA	C-N-CA	-5.64	110.76	121.54
2	L	180	GLU	N-CA-C	-5.64	99.98	110.02
2	L	708	ASP	CA-CB-CG	-5.64	106.96	112.60
2	L	177	TYR	CA-CB-CG	-5.64	103.75	113.90
2	L	174	ASP	N-CA-C	-5.64	98.80	110.80
2	B	836	LYS	CB-CA-C	-5.63	100.36	114.11
3	M	148	GLU	N-CA-C	5.63	117.23	107.93
5	O	92	LYS	N-CA-CB	5.63	120.01	110.49
3	M	430	THR	OG1-CB-CG2	5.63	120.57	109.30
2	G	704	TRP	O-C-N	-5.63	114.84	121.32
2	F	384	ASP	CA-CB-CG	5.63	118.23	112.60
2	B	212	CYS	CA-C-N	-5.63	113.82	122.60
2	B	212	CYS	C-N-CA	-5.63	113.82	122.60
2	C	312	LEU	CA-C-N	-5.63	113.97	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	312	LEU	C-N-CA	-5.63	113.97	122.81
2	C	774	MET	CA-C-O	-5.63	115.21	121.51
2	F	293	GLN	CB-CG-CD	-5.62	103.04	112.60
2	C	158	ASN	N-CA-C	-5.62	98.83	110.80
2	G	379	ASN	CA-CB-CG	-5.62	106.98	112.60
2	B	873	ALA	N-CA-CB	-5.62	101.00	110.49
2	D	139	ASN	N-CA-C	-5.62	101.15	109.86
2	G	911	ALA	N-CA-C	5.62	122.77	110.80
2	B	192	VAL	CB-CA-C	5.62	120.50	111.29
2	L	177	TYR	CB-CA-C	-5.62	99.25	110.42
2	C	130	PRO	N-CA-C	5.61	124.03	112.47
5	O	116	THR	CB-CA-C	-5.61	98.47	110.32
2	C	742	GLN	CA-C-O	-5.61	115.12	120.90
2	E	828	ALA	N-CA-CB	-5.61	101.28	110.43
2	C	187	GLN	CB-CG-CD	-5.61	103.06	112.60
2	E	730	ALA	CA-C-N	-5.61	110.83	121.54
2	E	730	ALA	C-N-CA	-5.61	110.83	121.54
2	K	278	PRO	N-CA-CB	-5.60	96.83	103.00
2	B	909	ILE	N-CA-C	-5.60	100.05	108.12
2	C	165	ASP	CB-CA-C	5.60	121.56	110.42
2	C	186	THR	N-CA-C	-5.60	98.87	110.80
2	E	225	GLY	N-CA-C	5.60	118.37	111.93
2	F	126	PRO	N-CD-CG	-5.60	94.80	103.20
2	F	819	TYR	N-CA-CB	5.60	120.33	110.37
2	L	217	ALA	CA-C-O	-5.60	112.50	120.51
2	B	287	SER	CA-C-O	-5.60	115.19	121.40
2	G	716	PHE	CA-C-O	-5.59	114.31	120.30
1	1	11	PRO	CA-C-O	-5.59	115.07	121.56
2	G	138	ASN	N-CA-C	-5.59	105.42	114.09
2	G	702	VAL	N-CA-C	-5.59	97.71	109.34
2	I	810	ARG	CG-CD-NE	-5.59	99.70	112.00
2	I	915	ARG	CB-CA-C	-5.59	99.30	110.42
2	C	153	ASN	CB-CA-C	-5.59	99.30	110.42
2	F	648	PHE	CA-C-O	-5.58	112.53	120.51
2	K	213	TYR	N-CA-CB	5.58	120.33	111.17
2	C	741	ILE	CA-C-N	-5.58	113.04	120.63
2	C	741	ILE	C-N-CA	-5.58	113.04	120.63
2	C	707	ASN	CB-CA-C	-5.58	99.32	110.42
2	F	737	ASP	CA-C-N	-5.58	112.11	122.60
2	F	737	ASP	C-N-CA	-5.58	112.11	122.60
2	A	4	PRO	N-CA-CB	-5.57	97.40	103.25
2	A	131	ASN	CB-CA-C	-5.57	99.51	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	96	MET	CA-C-N	-5.57	111.83	122.53
2	G	96	MET	C-N-CA	-5.57	111.83	122.53
5	O	121	ASN	N-CA-CB	5.57	118.80	110.22
2	B	846	ILE	N-CA-C	-5.57	96.85	108.88
2	D	155	ASN	N-CA-C	5.57	118.54	109.24
2	B	356	ARG	CA-C-N	-5.57	113.35	122.26
2	B	356	ARG	C-N-CA	-5.57	113.35	122.26
2	D	208	PRO	N-CA-C	5.57	123.94	112.47
2	F	729	VAL	N-CA-C	5.57	120.92	109.34
2	C	597	HIS	CA-CB-CG	5.56	119.36	113.80
2	A	276	TYR	N-CA-CB	5.56	119.89	110.49
2	E	822	PRO	N-CA-CB	-5.56	99.50	103.23
2	H	811	GLU	CB-CG-CD	5.56	122.05	112.60
2	B	176	THR	O-C-N	5.56	129.19	122.35
2	D	219	PRO	N-CD-CG	-5.56	94.86	103.20
2	K	300	PRO	N-CD-CG	-5.56	94.86	103.20
2	B	320	ASN	CB-CA-C	-5.56	99.36	110.42
2	J	156	LYS	CB-CA-C	-5.56	100.75	109.70
2	K	244	LEU	N-CA-C	-5.56	103.36	110.53
2	B	191	GLU	CB-CA-C	-5.56	99.36	110.42
2	B	325	ALA	CA-C-N	-5.55	116.29	121.62
2	B	325	ALA	C-N-CA	-5.55	116.29	121.62
2	F	224	GLY	CA-C-N	-5.55	110.53	121.41
2	F	224	GLY	C-N-CA	-5.55	110.53	121.41
2	G	426	GLU	CB-CG-CD	5.55	122.04	112.60
2	B	144	ARG	N-CA-C	5.55	117.74	109.25
2	G	53	THR	CA-C-N	-5.55	110.94	121.54
2	G	53	THR	C-N-CA	-5.55	110.94	121.54
2	L	177	TYR	N-CA-C	-5.55	98.98	110.80
2	D	733	ASN	CA-CB-CG	5.55	118.15	112.60
2	B	179	PRO	N-CD-CG	-5.55	94.88	103.20
2	H	216	TYR	N-CA-C	-5.55	101.99	110.14
2	L	201	ARG	CG-CD-NE	-5.54	99.80	112.00
2	B	254	ASN	CA-C-N	-5.54	115.39	122.98
2	B	254	ASN	C-N-CA	-5.54	115.39	122.98
2	C	113	PHE	CB-CA-C	-5.54	99.40	110.42
2	C	337	LEU	N-CA-CB	-5.54	101.22	109.69
2	K	290	LEU	CB-CA-C	-5.54	99.40	110.42
2	J	142	LYS	N-CA-C	5.54	116.38	108.74
2	A	434	GLU	CB-CA-C	-5.54	100.03	110.16
2	J	423	ALA	N-CA-C	-5.53	99.01	110.80
2	C	614	GLN	CA-C-O	-5.53	112.60	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	725	GLU	CB-CA-C	-5.53	98.10	110.21
2	F	645	TRP	N-CA-CB	-5.53	101.15	110.49
2	H	227	ALA	N-CA-C	5.53	118.06	109.60
1	4	17	PRO	N-CD-CG	-5.53	94.91	103.20
2	D	126	PRO	N-CA-CB	-5.53	97.45	103.25
2	E	801	PHE	CA-CB-CG	5.53	119.33	113.80
2	C	583	PHE	CB-CA-C	5.52	120.30	111.24
2	E	739	PHE	CB-CA-C	-5.52	99.43	110.42
2	H	206	THR	N-CA-C	-5.52	105.53	114.09
2	K	212	CYS	CA-C-O	-5.52	112.61	120.51
3	M	367	VAL	N-CA-CB	-5.52	102.11	111.50
2	E	748	ASN	CA-C-N	5.52	131.12	122.84
2	E	748	ASN	C-N-CA	5.52	131.12	122.84
2	G	324	LEU	N-CA-C	-5.52	99.05	110.80
2	L	179	PRO	N-CA-CB	-5.52	96.37	102.17
2	C	709	ARG	CB-CG-CD	-5.52	98.61	111.30
2	F	220	THR	CA-C-N	5.52	132.08	121.54
2	F	220	THR	C-N-CA	5.52	132.08	121.54
2	J	385	GLU	CB-CA-C	5.52	120.42	111.26
2	C	271	ASP	CB-CA-C	-5.51	101.96	110.78
2	D	279	ASP	CA-CB-CG	-5.51	107.08	112.60
7	U	22	GLY	CA-C-O	-5.51	115.57	122.74
2	B	791	THR	CB-CA-C	-5.51	99.45	110.42
2	J	47	ASN	CB-CA-C	-5.51	101.40	110.55
2	J	126	PRO	CA-C-O	-5.51	115.20	121.98
6	S	45	VAL	CA-C-O	-5.51	113.89	120.78
2	A	536	PRO	CA-C-N	-5.51	114.16	122.81
2	A	536	PRO	C-N-CA	-5.51	114.16	122.81
2	F	250	PRO	N-CA-C	5.51	123.82	112.47
2	A	291	LEU	O-C-N	5.51	127.76	122.03
2	D	813	GLN	CB-CA-C	-5.51	99.43	111.71
2	H	262	ALA	N-CA-CB	-5.51	101.83	110.69
2	D	99	THR	O-C-N	-5.50	116.45	123.06
2	L	183	VAL	CA-C-N	-5.50	110.62	121.41
2	L	183	VAL	C-N-CA	-5.50	110.62	121.41
6	Q	20	TYR	CA-C-O	-5.50	115.10	121.15
2	B	180	GLU	CA-C-O	-5.50	112.62	120.16
2	B	378	GLU	CB-CA-C	-5.50	101.95	111.30
2	C	758	GLU	N-CA-CB	-5.50	102.49	110.36
2	J	222	GLU	CA-C-N	-5.50	111.04	121.54
2	J	222	GLU	C-N-CA	-5.50	111.04	121.54
2	B	291	LEU	N-CA-CB	-5.50	100.13	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	204	LYS	N-CA-C	5.50	122.51	110.80
2	G	373	ASP	CA-C-N	-5.50	112.07	121.97
2	G	373	ASP	C-N-CA	-5.50	112.07	121.97
2	J	97	ALA	CA-C-N	-5.50	115.66	123.03
2	J	97	ALA	C-N-CA	-5.50	115.66	123.03
2	J	101	PHE	CA-CB-CG	5.50	119.30	113.80
2	D	364	ASN	CA-C-O	-5.50	112.65	120.51
2	H	730	ALA	CA-C-N	-5.50	111.04	121.54
2	H	730	ALA	C-N-CA	-5.50	111.04	121.54
2	J	45	PHE	CA-CB-CG	5.50	119.30	113.80
2	J	429	ASN	N-CA-CB	-5.50	102.07	110.42
2	J	245	GLN	CB-CA-C	-5.49	104.22	111.42
2	C	285	ILE	N-CA-C	-5.49	97.92	109.34
2	E	737	ASP	CA-CB-CG	-5.49	107.11	112.60
2	G	52	PRO	CB-CA-C	-5.49	104.69	111.11
2	G	293	GLN	CB-CA-C	5.49	121.35	110.42
2	B	341	ASN	CA-C-O	-5.49	114.64	120.40
2	J	100	TYR	N-CA-CB	-5.49	96.93	110.32
2	J	380	HIS	CA-C-N	-5.49	112.87	121.87
2	J	380	HIS	C-N-CA	-5.49	112.87	121.87
2	D	144	ARG	CB-CA-C	-5.49	99.50	110.42
2	B	816	PRO	N-CD-CG	-5.48	94.98	103.20
2	G	252	THR	N-CA-C	-5.48	97.70	109.81
2	G	322	GLY	CA-C-N	-5.48	112.11	121.97
2	G	322	GLY	C-N-CA	-5.48	112.11	121.97
2	G	326	GLY	N-CA-C	-5.48	104.31	113.02
6	P	22	THR	CB-CA-C	5.48	118.76	109.55
5	O	190	GLN	CA-C-N	-5.48	114.48	122.86
5	O	190	GLN	C-N-CA	-5.48	114.48	122.86
2	C	28	LEU	N-CA-CB	5.47	118.86	110.70
2	G	924	THR	CA-CB-OG1	-5.47	101.39	109.60
5	O	195	TYR	CA-C-N	-5.47	114.47	122.19
5	O	195	TYR	C-N-CA	-5.47	114.47	122.19
6	Q	16	VAL	N-CA-CB	-5.47	102.20	111.23
2	D	417	ASN	CB-CA-C	-5.47	104.65	111.43
2	G	349	MET	N-CA-CB	5.47	118.35	110.20
2	K	314	TYR	CA-C-N	5.47	131.99	121.54
2	K	314	TYR	C-N-CA	5.47	131.99	121.54
2	C	208	PRO	N-CA-C	5.47	123.73	112.47
2	L	146	GLN	CB-CA-C	-5.47	102.43	111.51
6	R	19	PRO	N-CA-CB	-5.47	97.51	103.25
2	H	284	THR	CA-C-N	-5.47	112.39	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	284	THR	C-N-CA	-5.47	112.39	121.63
6	Q	20	TYR	N-CA-CB	-5.47	101.00	109.69
2	G	265	VAL	CB-CA-C	-5.46	102.33	111.29
2	C	100	TYR	CA-CB-CG	5.46	123.73	113.90
2	D	729	VAL	N-CA-C	5.46	120.70	109.34
2	G	728	ASN	CA-C-O	-5.46	112.70	120.51
2	G	908	VAL	N-CA-CB	-5.46	102.22	111.23
2	K	374	VAL	N-CA-C	-5.46	108.52	113.71
2	C	611	THR	CA-CB-OG1	-5.46	101.41	109.60
2	E	824	ILE	CB-CA-C	-5.46	102.34	111.29
2	G	723	ASP	CA-CB-CG	5.46	118.06	112.60
2	L	204	LYS	CB-CA-C	-5.46	99.56	110.42
2	A	620	LEU	N-CA-C	-5.46	99.18	110.80
2	G	141	ILE	CB-CA-C	-5.46	102.34	111.29
2	I	412	TRP	N-CA-C	-5.46	103.88	111.30
2	F	201	ARG	CB-CA-C	5.45	120.06	110.36
2	F	270	PRO	N-CA-C	5.45	123.70	112.47
2	J	449	ASN	N-CA-C	-5.45	105.25	112.94
2	D	99	THR	CA-C-N	-5.45	117.30	123.13
2	D	99	THR	C-N-CA	-5.45	117.30	123.13
6	S	41	ASP	O-C-N	5.45	127.68	122.07
2	E	809	MET	N-CA-C	5.45	115.59	108.07
2	A	298	ASN	CB-CA-C	-5.45	100.93	109.70
2	A	807	PRO	N-CD-CG	-5.45	95.03	103.20
5	O	40	ASP	N-CA-C	-5.45	106.80	113.50
2	F	255	GLU	CB-CA-C	-5.44	104.13	110.17
2	H	810	ARG	CB-CG-CD	-5.44	98.78	111.30
2	B	476	TYR	N-CA-CB	5.44	119.68	110.49
2	J	228	SER	CB-CA-C	5.44	118.56	109.80
2	A	538	LYS	CA-C-N	-5.43	113.16	120.82
2	A	538	LYS	C-N-CA	-5.43	113.16	120.82
2	F	729	VAL	CA-C-N	-5.43	113.15	121.74
2	F	729	VAL	C-N-CA	-5.43	113.15	121.74
2	B	325	ALA	N-CA-C	5.43	118.27	109.86
2	C	449	ASN	CB-CA-C	5.43	120.37	110.11
2	F	106	VAL	CA-C-O	-5.43	114.00	120.78
2	G	299	ARG	CG-CD-NE	-5.43	100.06	112.00
2	J	425	ILE	N-CA-C	-5.43	98.05	109.34
2	K	313	MET	CA-C-O	-5.42	114.35	120.43
2	C	833	THR	CA-C-O	-5.42	114.72	121.55
2	C	206	THR	CA-CB-OG1	5.42	117.73	109.60
2	C	596	ALA	CA-C-N	-5.42	113.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	596	ALA	C-N-CA	-5.42	113.07	120.44
2	H	293	GLN	CA-C-O	-5.42	114.79	120.80
2	C	33	ARG	CA-C-N	-5.42	112.89	122.26
2	C	33	ARG	C-N-CA	-5.42	112.89	122.26
1	2	17	PRO	N-CA-CB	-5.41	97.56	103.25
2	B	353	LEU	CA-C-O	-5.41	115.81	122.36
2	G	302	TYR	CB-CA-C	-5.41	102.54	110.06
2	I	813	GLN	CB-CG-CD	-5.41	103.40	112.60
1	7	12	ARG	N-CA-C	-5.41	105.31	112.94
2	B	199	ALA	N-CA-C	5.41	118.39	109.85
2	J	448	SER	CB-CA-C	-5.41	99.66	110.42
2	A	226	GLN	CB-CA-C	5.40	120.10	111.24
2	B	880	VAL	CA-C-O	-5.40	115.37	121.75
2	C	352	ALA	O-C-N	5.40	129.78	122.59
2	C	818	ASN	CA-CB-CG	5.40	118.00	112.60
2	E	706	GLY	CA-C-O	-5.40	117.32	122.13
2	H	176	THR	N-CA-CB	-5.40	101.36	110.49
2	C	350	LEU	CA-C-O	-5.40	114.16	120.53
2	H	123	SER	CB-CA-C	-5.40	99.68	110.42
2	H	262	ALA	CA-C-O	-5.40	114.99	120.71
3	M	138	THR	N-CA-CB	5.40	117.63	110.29
2	B	916	THR	N-CA-C	5.39	121.73	109.81
2	I	422	GLY	CA-C-N	-5.39	114.86	122.63
2	I	422	GLY	C-N-CA	-5.39	114.86	122.63
2	B	365	GLN	CA-C-O	-5.39	115.68	121.56
2	D	115	PRO	N-CA-C	-5.39	108.50	114.92
2	F	212	CYS	CB-CA-C	-5.39	99.69	110.42
2	B	685	PHE	CA-C-N	-5.39	114.19	122.60
2	B	685	PHE	C-N-CA	-5.39	114.19	122.60
2	C	378	GLU	N-CA-CB	-5.39	101.80	110.69
2	E	749	ILE	N-CA-C	5.39	116.50	107.18
2	A	130	PRO	N-CD-CG	-5.38	95.13	103.20
2	C	197	LYS	CB-CA-C	-5.38	100.45	109.65
2	E	807	PRO	CB-CA-C	-5.38	102.68	111.56
2	F	707	ASN	CA-C-O	-5.38	112.81	120.51
2	L	223	LYS	N-CA-C	-5.38	99.34	110.80
2	H	253	PRO	CB-CA-C	-5.38	102.68	111.56
2	F	170	PRO	N-CA-CB	-5.38	97.60	103.25
2	F	116	TYR	N-CA-CB	-5.38	101.40	110.49
5	O	92	LYS	CB-CA-C	5.38	121.12	110.42
2	B	371	ASP	CB-CA-C	-5.37	99.58	110.17
2	C	125	ALA	CB-CA-C	-5.37	99.59	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	407	ALA	N-CA-C	-5.37	102.09	110.10
2	E	792	LEU	N-CA-CB	5.37	119.93	110.37
2	F	138	ASN	CB-CA-C	-5.37	103.81	112.09
2	B	875	ASP	CA-CB-CG	5.37	117.97	112.60
2	C	230	ILE	CA-C-O	-5.37	114.45	120.95
2	G	252	THR	CB-CA-C	-5.37	99.59	110.17
2	A	256	PRO	N-CA-C	5.37	123.53	112.47
2	I	840	ASP	CB-CA-C	-5.37	99.74	110.42
2	A	255	GLU	CB-CA-C	5.37	117.30	110.22
2	C	754	PHE	CA-C-O	-5.37	112.84	120.51
2	G	242	VAL	N-CA-C	-5.36	100.47	106.21
2	K	219	PRO	N-CD-CG	-5.36	95.16	103.20
2	A	52	PRO	N-CA-C	-5.36	101.43	112.47
2	A	274	LEU	N-CA-CB	-5.36	101.73	109.83
2	D	197	LYS	N-CA-CB	-5.36	101.17	109.69
2	J	103	ILE	N-CA-CB	-5.36	102.39	111.23
2	B	821	TYR	N-CA-C	-5.36	97.97	109.81
2	C	381	GLY	N-CA-C	5.36	117.78	111.35
2	H	299	ARG	N-CA-C	-5.36	102.42	110.24
2	H	189	ASN	CB-CA-C	-5.35	98.80	111.65
2	C	321	MET	CA-C-O	-5.35	115.18	120.80
2	H	293	GLN	N-CA-CB	-5.35	101.69	110.52
2	I	810	ARG	CA-C-O	-5.35	115.94	122.41
2	H	704	TRP	N-CA-CB	5.35	119.89	110.37
2	D	127	LYS	CA-C-N	-5.35	113.35	121.53
2	D	127	LYS	C-N-CA	-5.35	113.35	121.53
2	G	341	ASN	CA-CB-CG	-5.34	107.25	112.60
2	K	250	PRO	O-C-N	5.34	128.21	122.17
2	C	362	MET	N-CA-C	-5.34	99.42	110.80
2	C	386	LEU	N-CA-CB	-5.34	103.34	110.77
2	D	113	PHE	CA-CB-CG	5.34	119.14	113.80
2	G	55	ASP	CB-CA-C	-5.34	104.11	112.12
2	B	824	ILE	CA-C-O	-5.34	114.11	120.78
2	B	892	LEU	CA-C-O	-5.34	115.04	121.34
2	C	747	TYR	CB-CA-C	-5.34	99.80	110.42
2	G	382	VAL	N-CA-CB	-5.34	103.99	111.25
2	L	119	THR	CA-C-N	-5.33	115.88	123.03
2	L	119	THR	C-N-CA	-5.33	115.88	123.03
2	C	163	GLY	CA-C-O	-5.33	115.91	122.15
2	C	604	GLU	N-CA-C	-5.33	103.94	110.61
2	G	353	LEU	N-CA-C	-5.33	104.40	112.99
2	B	367	VAL	CA-C-N	-5.33	115.58	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	367	VAL	C-N-CA	-5.33	115.58	123.05
2	K	263	GLU	CA-C-O	-5.33	113.27	120.47
2	L	124	LEU	N-CA-CB	-5.33	100.98	109.19
2	A	8	PRO	N-CA-C	-5.33	101.49	112.47
2	C	770	ASN	CA-CB-CG	-5.33	107.27	112.60
2	I	420	ASP	CB-CA-C	-5.33	97.77	110.02
2	E	135	TRP	CB-CA-C	5.33	121.02	110.42
6	R	19	PRO	CB-CA-C	-5.33	102.77	111.56
2	B	139	ASN	N-CA-CB	-5.32	102.66	110.86
2	D	155	ASN	CB-CA-C	5.32	119.89	109.35
2	C	743	MET	N-CA-CB	5.32	117.72	110.01
6	S	20	TYR	CA-C-O	-5.32	112.90	120.51
2	D	208	PRO	N-CD-CG	-5.32	95.22	103.20
2	G	320	ASN	N-CA-CB	-5.31	101.97	110.63
2	B	922	ASN	O-C-N	5.31	129.37	121.72
2	B	845	ARG	CA-C-N	5.31	131.96	122.13
2	B	845	ARG	C-N-CA	5.31	131.96	122.13
2	I	402	TYR	N-CA-C	-5.31	100.44	108.46
5	O	119	GLN	CB-CG-CD	5.31	121.63	112.60
2	C	730	ALA	CA-C-N	-5.31	111.40	121.54
2	C	730	ALA	C-N-CA	-5.31	111.40	121.54
2	E	804	TYR	N-CA-CB	5.31	119.46	110.49
2	G	703	SER	CA-C-O	-5.31	115.68	121.89
5	O	114	ASN	N-CA-C	-5.31	103.88	110.41
2	C	297	PRO	N-CA-C	-5.31	102.91	111.77
2	C	225	GLY	N-CA-C	-5.30	104.31	112.85
2	F	143	VAL	N-CA-CB	-5.30	102.75	111.45
2	E	93	VAL	O-C-N	-5.30	117.03	123.02
2	F	288	ALA	CA-C-N	-5.30	114.27	122.49
2	F	288	ALA	C-N-CA	-5.30	114.27	122.49
2	G	391	PHE	CB-CA-C	5.30	120.61	110.17
2	K	289	ASP	CA-CB-CG	5.30	117.90	112.60
2	A	5	SER	N-CA-CB	5.30	118.60	110.70
2	G	174	ASP	CA-CB-CG	5.30	117.90	112.60
2	A	622	ALA	O-C-N	5.30	128.24	123.26
5	O	91	SER	N-CA-C	-5.30	105.64	112.68
2	B	349	MET	CA-C-N	-5.29	112.34	121.66
2	B	349	MET	C-N-CA	-5.29	112.34	121.66
2	F	726	GLY	CA-C-N	-5.29	110.20	121.32
2	F	726	GLY	C-N-CA	-5.29	110.20	121.32
7	U	20	ALA	N-CA-C	-5.29	99.52	110.80
2	B	844	TRP	CA-C-O	-5.29	115.19	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	157	ASP	CB-CA-C	-5.29	102.60	111.23
2	F	191	GLU	CB-CA-C	-5.29	99.89	110.42
2	G	340	ARG	N-CA-CB	-5.29	101.96	109.85
2	G	389	TYR	CA-C-O	-5.29	115.17	121.89
2	K	226	GLN	N-CA-C	-5.29	100.68	108.99
2	D	720	ARG	N-CA-C	-5.29	99.53	110.80
2	H	252	THR	CB-CA-C	5.29	120.59	110.17
2	J	119	THR	N-CA-C	-5.29	99.53	110.80
2	I	410	GLN	N-CA-C	-5.29	99.53	110.80
2	F	109	ARG	N-CA-CB	-5.29	101.55	110.49
1	9	12	ARG	N-CA-C	-5.29	104.27	111.56
2	B	829	VAL	CA-C-N	5.29	126.45	119.84
2	B	829	VAL	C-N-CA	5.29	126.45	119.84
2	G	436	ASN	CA-C-N	-5.29	114.03	122.17
2	G	436	ASN	C-N-CA	-5.29	114.03	122.17
7	T	5	ILE	N-CA-CB	-5.29	103.81	111.21
7	T	6	PRO	N-CA-C	-5.29	103.25	111.13
2	C	728	ASN	CA-C-N	5.28	131.48	121.97
2	C	728	ASN	C-N-CA	5.28	131.48	121.97
2	L	228	SER	CA-C-O	-5.28	115.70	121.14
2	F	289	ASP	CA-C-N	-5.28	110.72	121.18
2	F	289	ASP	C-N-CA	-5.28	110.72	121.18
2	B	226	GLN	N-CA-C	-5.28	104.64	111.71
7	T	6	PRO	CA-C-O	-5.28	115.18	122.15
2	G	62	GLN	CA-C-N	-5.28	113.22	120.71
2	G	62	GLN	C-N-CA	-5.28	113.22	120.71
2	J	919	SER	N-CA-C	5.28	117.14	110.33
6	R	27	ALA	CA-C-N	-5.28	111.46	121.54
6	R	27	ALA	C-N-CA	-5.28	111.46	121.54
2	B	356	ARG	N-CA-C	-5.28	106.78	113.43
2	C	134	GLU	N-CA-CB	5.28	118.56	110.70
2	H	219	PRO	CA-C-O	-5.28	114.98	121.31
2	C	271	ASP	CA-C-O	-5.27	115.06	120.54
2	F	224	GLY	N-CA-C	-5.27	100.68	113.18
2	C	738	TRP	CA-C-N	-5.27	115.15	122.74
2	C	738	TRP	C-N-CA	-5.27	115.15	122.74
2	I	413	THR	CA-C-N	-5.27	115.28	122.93
2	I	413	THR	C-N-CA	-5.27	115.28	122.93
2	B	262	ALA	CA-C-N	-5.27	113.39	121.40
2	B	262	ALA	C-N-CA	-5.27	113.39	121.40
2	C	235	ASP	CA-C-O	-5.27	115.36	121.26
2	C	714	ASN	CA-C-O	-5.27	115.49	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	198	VAL	CA-C-O	-5.27	116.14	121.67
2	C	186	THR	CB-CA-C	5.27	120.90	110.42
5	O	122	LEU	N-CA-C	-5.27	99.58	110.80
2	J	871	ALA	N-CA-C	5.26	117.27	109.69
2	B	224	GLY	CA-C-O	-5.26	117.78	121.88
2	B	871	ALA	N-CA-CB	-5.26	101.75	111.53
2	C	816	PRO	CB-CA-C	-5.26	102.88	111.56
2	E	888	LEU	CA-C-O	-5.26	114.59	120.54
6	P	16	VAL	CA-C-O	-5.26	114.20	120.78
2	B	276	TYR	N-CA-CB	5.26	119.38	110.49
2	C	604	GLU	N-CA-CB	5.26	119.01	111.65
2	K	214	GLY	N-CA-C	-5.26	100.72	113.18
2	J	146	GLN	CB-CA-C	5.26	120.88	110.42
3	M	451	THR	OG1-CB-CG2	5.26	119.81	109.30
2	C	316	ASN	CA-CB-CG	-5.25	107.35	112.60
2	A	432	ALA	CB-CA-C	5.25	118.37	110.50
2	I	178	GLN	CB-CA-C	-5.25	99.83	110.17
5	O	194	ASP	CA-C-O	-5.25	113.01	120.51
2	H	148	PRO	CB-CA-C	-5.24	102.91	111.56
2	I	179	PRO	N-CA-CB	-5.24	97.74	103.25
2	C	704	TRP	CA-C-N	-5.24	113.29	119.84
2	C	704	TRP	C-N-CA	-5.24	113.29	119.84
2	C	718	ILE	CA-C-N	-5.24	111.54	121.54
2	C	718	ILE	C-N-CA	-5.24	111.54	121.54
2	C	313	MET	CA-C-O	-5.24	115.19	121.11
2	J	104	ARG	CB-CA-C	-5.24	100.00	110.42
2	K	252	THR	O-C-N	5.24	127.34	121.32
2	B	795	GLN	N-CA-CB	5.23	119.34	110.49
2	C	703	SER	N-CA-C	-5.23	103.78	110.53
2	A	270	PRO	CA-N-CD	5.23	119.33	112.00
2	D	406	LYS	N-CA-C	5.23	117.03	110.91
2	J	180	GLU	N-CA-C	5.23	121.37	109.81
2	J	403	SER	N-CA-C	5.23	121.95	110.80
2	C	290	LEU	CA-C-N	-5.23	113.22	120.38
2	C	290	LEU	C-N-CA	-5.23	113.22	120.38
4	N	184	GLU	CA-C-O	-5.23	115.11	121.28
6	R	17	PHE	CA-CB-CG	5.23	119.03	113.80
2	B	485	SER	O-C-N	5.22	128.33	122.32
2	B	824	ILE	N-CA-CB	-5.22	102.61	111.23
2	J	387	PRO	N-CA-C	5.22	123.23	112.47
2	B	487	LEU	N-CA-CB	-5.22	101.16	110.82
2	J	179	PRO	N-CA-C	-5.22	101.71	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	220	THR	O-C-N	5.22	127.73	122.09
2	J	412	TRP	O-C-N	5.22	129.53	122.59
2	B	472	ASN	CB-CA-C	5.22	119.42	111.02
2	B	821	TYR	CB-CA-C	5.22	120.45	110.17
2	D	131	ASN	CA-CB-CG	-5.22	107.38	112.60
2	C	605	ALA	N-CA-C	-5.21	99.69	110.80
2	I	402	TYR	CB-CA-C	5.21	118.11	109.72
2	B	378	GLU	N-CA-CB	-5.21	102.58	110.35
2	G	910	GLU	CB-CA-C	-5.21	100.44	110.24
2	B	245	GLN	CA-C-O	-5.21	115.33	120.80
2	F	769	ARG	CA-C-N	-5.21	114.31	122.95
2	F	769	ARG	C-N-CA	-5.21	114.31	122.95
2	J	115	PRO	N-CA-C	-5.21	107.24	114.27
1	4	19	MET	CB-CA-C	-5.20	103.49	112.44
2	A	9	GLN	N-CA-CB	5.20	119.28	110.49
2	E	786	GLU	N-CA-CB	-5.20	103.38	110.56
2	G	247	PHE	CA-C-N	-5.20	112.75	121.75
2	G	247	PHE	C-N-CA	-5.20	112.75	121.75
2	G	915	ARG	CB-CA-C	-5.20	100.06	110.42
2	B	261	TYR	CB-CA-C	-5.20	100.61	109.51
2	C	181	PRO	N-CA-C	5.20	123.19	112.47
2	B	209	MET	CB-CG-SD	-5.20	97.10	112.70
2	B	287	SER	N-CA-C	5.20	116.19	108.86
2	F	822	PRO	N-CA-C	5.20	123.18	112.47
2	J	113	PHE	CB-CA-C	-5.20	100.07	110.42
2	D	819	TYR	N-CA-C	5.20	121.30	109.81
2	B	346	TYR	N-CA-C	-5.20	105.31	110.97
2	C	440	ASN	CB-CA-C	5.20	120.24	110.63
2	C	727	TYR	N-CA-C	5.19	119.67	113.23
2	G	248	ALA	N-CA-CB	-5.19	102.99	111.66
2	G	250	PRO	N-CA-C	-5.19	101.77	112.47
2	B	841	ARG	CA-C-O	-5.19	115.70	122.45
2	K	224	GLY	CA-C-N	-5.19	111.45	121.05
2	K	224	GLY	C-N-CA	-5.19	111.45	121.05
2	G	310	ILE	N-CA-C	-5.19	98.55	109.34
1	5	19	MET	N-CA-CB	-5.18	103.19	111.43
2	A	52	PRO	CB-CA-C	-5.18	103.01	111.56
2	C	572	ASN	CB-CA-C	-5.18	100.65	109.51
2	D	100	TYR	CA-C-O	-5.18	115.06	118.33
2	A	821	TYR	CA-C-O	-5.18	115.41	119.66
1	1	15	SER	N-CA-C	5.18	121.83	110.80
2	F	261	TYR	CA-C-O	-5.17	115.39	121.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	217	ALA	CA-C-O	-5.17	113.11	120.51
2	J	119	THR	N-CA-CB	5.17	119.23	110.49
2	A	55	ASP	CA-CB-CG	-5.17	107.43	112.60
2	D	151	GLY	CA-C-N	-5.17	114.21	122.53
2	D	151	GLY	C-N-CA	-5.17	114.21	122.53
2	C	228	SER	CA-C-O	-5.17	115.16	121.05
2	C	708	ASP	CA-C-N	-5.17	113.90	122.32
2	C	708	ASP	C-N-CA	-5.17	113.90	122.32
2	H	179	PRO	CA-C-O	-5.17	111.19	120.60
2	I	920	ALA	CB-CA-C	-5.17	101.01	110.62
2	B	863	GLN	N-CA-CB	-5.17	101.98	110.14
2	C	183	VAL	N-CA-C	5.16	120.08	109.34
2	F	200	GLY	CA-C-O	-5.16	115.94	122.39
2	A	225	GLY	CA-C-N	-5.16	113.64	121.53
2	A	225	GLY	C-N-CA	-5.16	113.64	121.53
2	C	810	ARG	CB-CA-C	-5.16	102.89	111.41
2	A	710	LEU	CA-C-N	5.16	131.74	122.46
2	A	710	LEU	C-N-CA	5.16	131.74	122.46
2	E	95	ASP	CB-CA-C	-5.16	100.16	110.42
2	H	222	GLU	N-CA-C	-5.16	99.81	110.80
2	L	188	TRP	CA-C-O	-5.16	113.13	120.51
2	F	222	GLU	CA-C-N	-5.16	111.69	121.54
2	F	222	GLU	C-N-CA	-5.16	111.69	121.54
2	C	756	VAL	CA-C-O	-5.16	117.38	120.88
2	F	143	VAL	N-CA-C	5.16	116.08	108.45
2	A	207	THR	CB-CA-C	-5.15	100.02	110.17
2	C	757	PRO	N-CD-CG	-5.15	95.47	103.20
2	G	347	GLN	CB-CA-C	5.15	120.67	110.42
2	G	348	LEU	CA-C-N	-5.15	111.77	120.58
2	G	348	LEU	C-N-CA	-5.15	111.77	120.58
2	L	213	TYR	N-CA-CB	-5.15	103.03	110.45
5	O	119	GLN	CA-C-N	-5.15	113.62	122.79
5	O	119	GLN	C-N-CA	-5.15	113.62	122.79
1	0	24	GLY	O-C-N	5.15	129.39	122.70
2	F	773	PRO	CA-C-O	-5.15	115.13	121.31
2	A	273	HIS	N-CA-C	5.15	117.00	108.20
2	B	297	PRO	CA-N-CD	5.15	119.21	112.00
2	K	262	ALA	CA-C-O	-5.15	114.77	120.38
2	C	318	THR	N-CA-CB	5.14	118.31	110.44
2	K	217	ALA	CA-C-O	-5.14	113.15	120.51
1	3	19	MET	CB-CA-C	-5.14	99.83	111.30
2	B	851	ASN	CA-C-O	-5.14	113.16	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	253	PRO	N-CD-CG	-5.14	95.49	103.20
2	C	717	GLU	CA-C-O	-5.14	115.56	121.47
2	G	52	PRO	N-CA-C	-5.14	102.17	110.55
2	F	207	THR	N-CA-C	-5.14	103.60	110.07
2	F	259	VAL	CA-C-N	-5.14	111.80	121.66
2	F	259	VAL	C-N-CA	-5.14	111.80	121.66
2	H	247	PHE	CA-C-N	-5.13	111.73	121.54
2	H	247	PHE	C-N-CA	-5.13	111.73	121.54
2	L	185	GLN	CA-C-O	-5.13	114.45	120.20
2	C	206	THR	CA-C-N	-5.13	112.54	122.70
2	C	206	THR	C-N-CA	-5.13	112.54	122.70
2	H	302	TYR	N-CA-C	-5.13	102.93	110.52
2	F	104	ARG	CA-C-O	-5.13	114.81	120.24
2	B	831	SER	N-CA-C	5.12	117.84	109.59
2	L	205	ASP	CA-C-N	-5.12	114.94	122.83
2	L	205	ASP	C-N-CA	-5.12	114.94	122.83
2	C	149	PHE	N-CA-CB	5.12	119.14	110.49
2	H	268	GLU	CA-C-O	-5.12	113.19	120.51
2	L	191	GLU	CB-CA-C	5.12	120.61	110.42
2	B	250	PRO	N-CA-C	-5.12	101.92	112.47
4	N	174	GLN	CB-CA-C	-5.12	100.24	110.42
2	A	266	SER	CA-C-O	-5.12	115.37	121.56
2	E	816	PRO	CA-N-CD	5.12	119.16	112.00
2	H	728	ASN	CA-C-O	-5.12	114.76	120.54
2	J	260	LEU	N-CA-C	-5.12	101.63	109.76
2	J	452	LEU	N-CA-C	-5.12	105.69	112.34
2	F	199	ALA	N-CA-C	5.11	115.28	108.38
2	F	131	ASN	N-CA-C	-5.11	100.20	109.44
2	H	298	ASN	CB-CA-C	5.11	118.23	109.80
2	B	898	VAL	CA-C-O	-5.10	114.40	120.78
2	E	709	ARG	N-CA-CB	-5.10	102.67	110.07
2	L	182	GLN	CB-CA-C	5.10	122.13	111.97
6	S	22	THR	CA-CB-OG1	-5.10	101.94	109.60
2	F	161	GLN	CA-C-N	-5.10	114.02	120.60
2	F	161	GLN	C-N-CA	-5.10	114.02	120.60
2	B	385	GLU	N-CA-CB	-5.10	99.45	111.74
2	E	138	ASN	CB-CA-C	-5.10	100.27	110.42
2	F	103	ILE	CB-CA-C	-5.10	103.09	111.51
2	L	142	LYS	N-CA-CB	-5.10	102.69	110.85
2	C	567	GLN	CB-CA-C	-5.10	101.95	109.90
2	C	837	PHE	CA-C-O	-5.10	112.60	121.62
2	H	250	PRO	CA-C-N	-5.10	115.45	123.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	250	PRO	C-N-CA	-5.10	115.45	123.91
2	J	868	ALA	N-CA-CB	-5.10	101.88	110.49
2	C	236	GLN	CA-C-O	-5.09	113.22	120.51
2	G	909	ILE	N-CA-CB	-5.09	104.63	110.49
2	I	919	SER	N-CA-C	5.09	116.51	110.19
2	A	702	VAL	CB-CA-C	-5.09	102.94	111.29
2	J	389	TYR	CA-C-O	-5.09	116.18	121.99
2	F	832	LEU	CA-C-O	-5.09	114.86	120.36
2	D	219	PRO	N-CA-C	-5.09	101.98	112.47
1	5	27	THR	CA-C-N	-5.09	114.03	122.32
1	5	27	THR	C-N-CA	-5.09	114.03	122.32
2	B	790	VAL	CA-C-O	-5.09	114.92	120.72
2	D	215	SER	N-CA-C	5.09	121.63	110.80
2	D	279	ASP	N-CA-CB	5.09	119.08	110.49
2	C	360	PHE	CB-CA-C	-5.08	100.30	110.42
2	G	366	ALA	N-CA-C	-5.08	99.97	110.80
2	K	290	LEU	O-C-N	5.08	129.35	122.59
5	O	133	VAL	N-CA-C	-5.08	108.02	112.90
2	E	519	ARG	N-CA-C	-5.08	108.34	114.75
2	D	100	TYR	O-C-N	5.08	125.87	121.65
2	F	180	GLU	CB-CA-C	-5.08	100.16	110.17
3	M	450	ILE	CG1-CB-CG2	5.08	125.94	110.70
2	B	266	SER	O-C-N	5.08	127.60	121.76
2	B	132	PRO	N-CA-CB	-5.08	97.92	103.25
2	I	138	ASN	N-CA-C	-5.08	104.38	111.39
2	F	725	GLU	N-CA-C	-5.07	105.02	111.11
7	U	23	ALA	CB-CA-C	-5.07	100.32	110.42
2	B	252	THR	CB-CA-C	-5.07	100.18	110.17
2	E	882	PRO	CA-C-O	-5.07	115.95	121.27
2	J	384	ASP	CA-CB-CG	5.07	117.67	112.60
2	I	374	VAL	N-CA-C	-5.07	108.89	113.71
2	I	919	SER	CA-C-O	-5.07	116.69	122.01
2	J	190	SER	CA-C-N	-5.07	114.25	121.50
2	J	190	SER	C-N-CA	-5.07	114.25	121.50
2	C	278	PRO	CB-CA-C	-5.07	106.20	113.09
2	C	581	VAL	CB-CA-C	-5.07	102.98	111.29
2	C	580	SER	CA-C-N	-5.07	112.85	121.97
2	C	580	SER	C-N-CA	-5.07	112.85	121.97
2	E	798	ASN	N-CA-CB	5.07	119.05	110.49
2	G	398	ALA	N-CA-CB	5.07	117.37	110.38
2	C	263	GLU	N-CA-C	5.06	114.92	108.24
2	C	334	VAL	N-CA-CB	-5.06	102.88	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	259	VAL	N-CA-C	5.06	113.67	106.53
2	L	142	LYS	CB-CA-C	-5.06	100.10	109.37
3	M	147	VAL	CG1-CB-CG2	5.06	121.94	110.80
2	B	314	TYR	CA-C-O	-5.06	113.27	120.51
2	F	705	PRO	CA-N-CD	5.06	119.08	112.00
3	M	244	VAL	CG1-CB-CG2	5.06	121.94	110.80
2	J	422	GLY	CA-C-N	-5.06	111.88	121.54
2	J	422	GLY	C-N-CA	-5.06	111.88	121.54
2	B	344	LEU	N-CA-CB	5.06	119.04	110.49
2	B	824	ILE	N-CA-C	-5.06	98.82	109.34
2	B	869	ASN	CB-CA-C	-5.06	100.36	110.42
2	G	699	ASP	O-C-N	5.06	129.32	122.59
2	J	228	SER	N-CA-CB	-5.06	103.12	111.01
5	O	253	SER	N-CA-C	-5.06	105.83	112.41
2	B	433	MET	N-CA-C	-5.05	101.39	109.07
2	C	291	LEU	N-CA-CB	-5.05	102.48	110.06
2	E	828	ALA	N-CA-C	5.05	117.48	109.24
2	F	139	ASN	CA-C-N	-5.05	115.11	122.44
2	F	139	ASN	C-N-CA	-5.05	115.11	122.44
2	F	223	LYS	N-CA-C	-5.05	100.04	110.80
2	G	62	GLN	CB-CG-CD	-5.05	104.01	112.60
2	I	366	ALA	CA-C-N	5.05	128.07	120.69
2	I	366	ALA	C-N-CA	5.05	128.07	120.69
2	B	368	ASP	CA-C-N	-5.05	114.03	122.21
2	B	368	ASP	C-N-CA	-5.05	114.03	122.21
2	I	187	GLN	CB-CG-CD	-5.05	104.01	112.60
2	C	615	SER	N-CA-C	5.05	121.56	110.80
2	F	102	ASP	N-CA-CB	-5.05	102.18	110.11
2	D	248	ALA	N-CA-C	5.05	115.98	108.86
2	G	135	TRP	CA-C-N	-5.05	115.37	122.94
2	G	135	TRP	C-N-CA	-5.05	115.37	122.94
1	8	18	PHE	CA-CB-CG	-5.04	108.76	113.80
2	C	117	SER	CB-CA-C	-5.04	101.74	112.63
2	E	834	GLN	CB-CG-CD	-5.04	104.03	112.60
2	J	450	VAL	N-CA-CB	5.04	119.55	111.23
2	K	259	VAL	CA-C-N	-5.04	113.97	122.29
2	K	259	VAL	C-N-CA	-5.04	113.97	122.29
5	O	94	ILE	CA-C-O	-5.04	114.48	120.78
2	A	797	ASN	CA-C-O	-5.04	115.74	121.58
2	E	148	PRO	N-CA-C	5.03	122.84	112.47
2	D	177	TYR	CB-CA-C	-5.03	99.00	110.07
2	B	680	TYR	N-CA-C	-5.03	106.83	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	375	ARG	CA-C-O	-5.03	115.52	120.70
2	B	439	ALA	O-C-N	5.03	127.83	121.64
2	D	821	TYR	N-CA-C	-5.03	101.98	109.42
2	J	227	ALA	O-C-N	5.03	128.63	122.75
2	G	914	LEU	CA-C-O	-5.03	115.08	119.91
2	H	727	TYR	CA-C-N	-5.03	115.10	122.19
2	H	727	TYR	C-N-CA	-5.03	115.10	122.19
2	I	143	VAL	N-CA-CB	5.03	116.47	109.84
2	L	189	ASN	CA-C-N	-5.03	113.79	120.63
2	L	189	ASN	C-N-CA	-5.03	113.79	120.63
7	T	6	PRO	N-CA-CB	5.02	109.63	103.15
2	E	706	GLY	O-C-N	5.02	128.12	123.35
2	G	174	ASP	N-CA-CB	5.02	116.26	111.59
2	H	142	LYS	CA-C-O	-5.02	112.26	120.80
4	N	186	VAL	CB-CA-C	-5.02	103.05	111.29
2	A	255	GLU	N-CA-C	5.02	112.74	108.22
2	C	277	LYS	N-CA-C	-5.02	100.35	109.44
2	F	400	ASP	N-CA-C	-5.02	101.22	109.40
2	J	48	PRO	N-CA-CB	-5.02	98.11	103.38
2	B	901	ILE	CA-C-O	-5.02	114.51	120.78
2	G	143	VAL	CA-C-O	-5.02	114.51	120.78
6	S	52	THR	N-CA-CB	5.02	118.17	110.95
2	C	834	GLN	CA-C-O	-5.02	116.08	121.45
2	H	283	GLY	N-CA-C	-5.02	107.28	115.46
2	L	153	ASN	CA-CB-CG	-5.02	107.58	112.60
2	G	339	ASP	CA-CB-CG	-5.01	107.58	112.60
2	I	917	PRO	N-CA-C	5.01	122.80	112.47
2	C	100	TYR	CA-C-O	-5.01	115.44	121.11
2	C	822	PRO	CB-CA-C	-5.01	103.29	111.56
2	B	644	ASN	O-C-N	-5.01	116.77	122.93
2	D	178	GLN	N-CA-C	-5.01	98.75	109.81
2	F	822	PRO	N-CD-CG	-5.01	95.69	103.20
2	J	49	THR	CB-CA-C	-5.01	102.43	110.14
2	J	701	SER	N-CA-C	5.00	116.04	107.28
2	L	212	CYS	N-CA-C	-5.00	107.16	114.12
2	B	297	PRO	N-CD-CG	-5.00	95.70	103.20
2	G	48	PRO	N-CD-CG	-5.00	95.69	103.20
2	I	268	GLU	CA-C-N	-5.00	111.21	122.17
2	I	268	GLU	C-N-CA	-5.00	111.21	122.17
2	C	351	ASP	CA-C-N	-5.00	111.99	121.54
2	C	351	ASP	C-N-CA	-5.00	111.99	121.54
2	C	573	ASP	CA-CB-CG	-5.00	107.60	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	601	SER	N-CA-CB	5.00	118.94	110.49
3	M	63	ASP	N-CA-C	5.00	121.45	110.80
5	O	121	ASN	CA-C-O	-5.00	114.45	120.10

All (57) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	2	17	PRO	CA
1	2	21	THR	CA
1	3	23	ASN	CA
1	5	27	THR	CA
1	8	16	ARG	CA
1	8	17	PRO	CA
1	8	29	GLN	CA
2	A	212	CYS	CA
2	A	247	PHE	CA
2	A	262	ALA	CA
2	A	622	ALA	CA
2	B	438	ALA	CA
2	B	661	THR	CA
2	B	796	HIS	CA
2	B	820	PRO	CA
2	B	830	PRO	CA
2	C	134	GLU	CA
2	C	146	GLN	CA
2	C	181	PRO	CA
2	C	188	TRP	CA
2	C	236	GLN	CA
2	C	288	ALA	CA
2	C	291	LEU	CA
2	C	308	ASN	CA
2	C	330	GLN	CA
2	C	384	ASP	CA
2	C	436	ASN	CA
2	C	821	TYR	CA
2	D	186	THR	CA
2	D	189	ASN	CA
2	D	253	PRO	CA
2	D	284	THR	CB
2	E	49	THR	CA
2	E	139	ASN	CA
2	F	158	ASN	CA

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Mol	Chain	Res	Type	Atom
2	F	175	LYS	CA
2	F	182	GLN	CA
2	H	186	THR	CA
2	I	134	GLU	CA
2	I	143	VAL	CA
2	I	182	GLN	CA
2	I	413	THR	CA
2	J	144	ARG	CA
2	J	247	PHE	CA
2	J	408	ASN	CA
2	J	411	THR	CA
2	J	426	GLU	CA
2	J	917	PRO	CA
2	K	258	ALA	CA
2	L	191	GLU	CA
3	M	63	ASP	CA
3	M	150	LYS	CA
5	O	92	LYS	CA
5	O	117	ASN	CA
6	P	17	PHE	CA
6	R	17	PHE	CA
6	S	17	PHE	CA

All (29) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	323	VAL	Mainchain
2	B	180	GLU	Mainchain
2	B	431	PHE	Mainchain
2	B	822	PRO	Mainchain
2	C	125	ALA	Mainchain
2	C	728	ASN	Mainchain
2	D	125	ALA	Mainchain
2	D	360	PHE	Mainchain
2	D	819	TYR	Mainchain
2	E	314	TYR	Peptide
2	E	44	LYS	Mainchain
2	E	730	ALA	Mainchain
2	E	745	SER	Mainchain
2	E	913	TYR	Mainchain
2	E	93	VAL	Mainchain
2	F	202	VAL	Mainchain

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Mol	Chain	Res	Type	Group
2	G	248	ALA	Mainchain
2	G	327	GLN	Mainchain
2	G	361	SER	Mainchain
2	G	725	GLU	Peptide
2	H	121	TYR	Mainchain
2	J	228	SER	Mainchain
2	L	149	PHE	Mainchain
2	L	697	MET	Mainchain
3	M	365	ALA	Mainchain
5	O	115	SER	Mainchain
5	O	260	SER	Mainchain
7	T	3	LYS	Mainchain
7	U	20	ALA	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	94	0	93	20	0
1	1	124	0	118	32	0
1	2	48	0	47	10	0
1	3	98	0	90	14	0
1	4	147	0	135	41	0
1	5	123	0	111	52	0
1	6	28	0	27	6	0
1	7	28	0	27	10	0
1	8	197	0	181	68	0
1	9	28	0	27	1	0
2	A	6307	0	6043	1355	0
2	B	6761	0	6493	1725	0
2	C	6862	0	6575	1775	0
2	D	7057	0	6749	1609	0
2	E	6988	0	6702	1742	0
2	F	7070	0	6781	1733	0
2	G	7008	0	6715	1594	0
2	H	7095	0	6803	1635	0
2	I	7212	0	6900	1427	0
2	J	7203	0	6888	1633	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	K	6702	0	6413	1401	0
2	L	6831	0	6550	1349	0
3	M	3659	0	3605	502	0
4	N	198	0	209	94	0
5	O	2088	0	2087	338	0
6	P	419	0	414	88	0
6	Q	366	0	365	96	0
6	R	228	0	227	64	0
6	S	419	0	413	90	0
7	T	1368	0	1297	234	0
7	U	1372	0	1300	195	0
8	X	64	0	55	3	0
9	V	50	0	14	1	0
9	W	45	0	12	8	0
9	Z	45	0	13	1	0
10	Y	30	0	10	3	0
All	All	94362	0	90489	18531	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 100.

All (18531) 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)
2:E:885:GLU:HG2	2:E:886:PRO:CD	1.24	1.68
2:A:704:TRP:CG	2:A:705:PRO:HD2	1.14	1.65
2:L:136:LYS:CG	2:L:140:LYS:HG2	1.25	1.63
3:M:221:LEU:HD11	3:M:336:ASN:CB	1.14	1.62
3:M:221:LEU:CD1	3:M:336:ASN:HB3	1.30	1.61
2:B:661:THR:CG2	2:B:662:PRO:HD3	1.21	1.60
2:A:704:TRP:CD1	2:A:705:PRO:HD2	1.36	1.59
2:C:819:TYR:CG	2:C:820:PRO:HD3	1.05	1.57
2:G:249:LEU:HD22	2:G:250:PRO:CD	1.25	1.57
2:C:386:LEU:HD23	2:C:387:PRO:CD	1.31	1.56
2:B:661:THR:HG22	2:B:662:PRO:CD	1.34	1.55
2:F:180:GLU:HB3	2:F:181:PRO:CD	1.26	1.52
3:M:73:LYS:NZ	3:M:89:PHE:CB	1.70	1.52
2:J:704:TRP:CE3	2:J:705:PRO:HD3	1.42	1.52
2:K:249:LEU:CD1	2:K:250:PRO:HD2	1.35	1.51
2:H:252:THR:CG2	2:H:253:PRO:HD3	1.40	1.51
2:C:819:TYR:HB3	2:C:820:PRO:CD	1.27	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:73:LYS:NZ	3:M:89:PHE:HB2	1.18	1.50
2:A:792:LEU:HB3	2:A:793:PRO:CD	1.23	1.49
2:B:252:THR:H	2:B:253:PRO:CD	1.17	1.48
3:M:374:VAL:HG23	3:M:405:LEU:CD2	1.40	1.48
2:F:180:GLU:CB	2:F:181:PRO:HD2	1.27	1.47
2:C:454:LEU:HB3	2:C:455:PRO:CD	1.07	1.46
2:I:634:THR:HG21	6:S:5:MET:CE	1.42	1.46
2:C:819:TYR:CG	2:C:820:PRO:CD	1.99	1.46
2:B:299:ARG:CG	2:B:300:PRO:HD2	1.44	1.45
2:B:299:ARG:HG2	2:B:300:PRO:CD	1.43	1.45
2:K:210:LEU:HB3	2:K:211:PRO:CD	1.46	1.45
2:E:47:ASN:CB	2:E:48:PRO:HD3	1.38	1.44
2:J:916:THR:HG23	2:J:917:PRO:CD	1.44	1.43
2:F:252:THR:OG1	2:F:253:PRO:CD	1.65	1.43
6:S:43:ARG:HB3	6:S:44:PRO:CD	1.13	1.43
2:B:210:LEU:CD1	2:B:211:PRO:HD3	1.49	1.42
2:F:178:GLN:HB2	2:F:179:PRO:CD	0.98	1.41
2:E:815:TYR:HB3	2:E:816:PRO:CD	1.25	1.41
2:E:916:THR:CB	2:E:917:PRO:HD2	1.42	1.41
2:H:249:LEU:HB3	2:H:250:PRO:CD	1.28	1.41
3:M:407:VAL:CG1	3:M:456:ASN:OD1	1.66	1.41
2:H:252:THR:HG22	2:H:253:PRO:CD	1.47	1.41
3:M:374:VAL:CG2	3:M:405:LEU:CD2	1.98	1.41
2:C:390:CYS:SG	2:C:433:MET:HB2	1.61	1.40
2:A:704:TRP:CG	2:A:705:PRO:CD	2.03	1.40
2:D:125:ALA:CB	2:D:126:PRO:HD2	1.32	1.40
2:B:693:LYS:CB	2:B:879:GLU:OE1	1.67	1.39
2:D:125:ALA:HB1	2:D:126:PRO:CD	1.19	1.39
2:J:147:ALA:CB	2:J:148:PRO:CD	1.89	1.39
2:E:819:TYR:H	2:E:820:PRO:CD	1.27	1.38
2:G:189:ASN:ND2	2:G:393:LEU:HD23	1.37	1.37
2:G:916:THR:CB	2:G:917:PRO:HD2	1.46	1.36
2:C:689:HIS:CD2	2:C:836:LYS:HZ1	1.41	1.36
2:C:819:TYR:CB	2:C:820:PRO:HD3	1.41	1.36
2:C:454:LEU:CB	2:C:455:PRO:CD	2.02	1.36
2:G:712:THR:CB	2:G:713:PRO:HD3	1.51	1.36
2:L:136:LYS:HG2	2:L:140:LYS:CG	1.55	1.35
2:I:916:THR:OG1	2:I:917:PRO:CD	1.74	1.35
4:N:179:LYS:O	4:N:180:ARG:HG2	1.23	1.34
2:L:200:GLY:O	2:L:201:ARG:HG3	1.17	1.34
3:M:197:VAL:CG1	3:M:201:ASP:HB2	1.58	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:25:LEU:HD12	6:S:26:PRO:CD	1.57	1.34
2:F:819:TYR:H	2:F:820:PRO:CD	1.18	1.33
3:M:124:ILE:HG12	3:M:460:LEU:CD2	1.56	1.33
2:L:136:LYS:HD3	2:L:140:LYS:CE	1.58	1.33
3:M:73:LYS:HD2	3:M:81:ASN:CG	1.55	1.32
2:C:255:GLU:CD	2:C:256:PRO:HD2	1.51	1.32
2:D:185:GLN:O	2:D:189:ASN:ND2	1.59	1.32
2:J:147:ALA:CB	2:J:148:PRO:HD3	1.42	1.32
2:J:147:ALA:HB1	2:J:148:PRO:CD	1.52	1.32
3:M:133:ASN:ND2	3:M:490:TYR:CE2	1.98	1.32
2:G:916:THR:HB	2:G:917:PRO:CD	1.57	1.31
3:M:73:LYS:HD2	3:M:81:ASN:ND2	1.44	1.31
2:E:815:TYR:CB	2:E:816:PRO:HD2	1.59	1.31
2:K:269:ALA:H	2:K:270:PRO:CD	1.39	1.31
2:G:712:THR:OG1	2:G:713:PRO:CD	1.79	1.31
2:E:2:ALA:N	4:N:187:LEU:HD22	1.42	1.30
6:S:43:ARG:CB	6:S:44:PRO:CD	2.00	1.30
2:G:189:ASN:ND2	2:G:393:LEU:CD2	1.91	1.30
2:F:866:LEU:CD1	4:N:174:GLN:OE1	1.78	1.30
2:E:881:ASP:OD1	2:E:882:PRO:HD2	1.24	1.29
3:M:120:ASP:OD1	3:M:465:THR:CG2	1.81	1.29
2:B:497:TRP:CZ2	2:B:836:LYS:HE3	1.66	1.29
2:J:916:THR:CG2	2:J:917:PRO:HD3	1.63	1.29
2:A:704:TRP:CD1	2:A:705:PRO:CD	2.16	1.28
2:E:435:ILE:CD1	2:F:390:CYS:HA	1.62	1.28
2:B:686:TYR:CE1	2:B:687:LEU:HD11	1.67	1.28
2:E:885:GLU:CG	2:E:886:PRO:HD2	1.64	1.28
3:M:221:LEU:HD11	3:M:336:ASN:CA	1.64	1.26
2:D:210:LEU:HB3	2:D:211:PRO:CD	1.64	1.26
2:G:712:THR:OG1	2:G:713:PRO:HD3	1.16	1.26
2:F:178:GLN:CB	2:F:179:PRO:HD2	1.14	1.26
2:I:916:THR:CG2	2:I:917:PRO:HD2	1.64	1.26
2:C:255:GLU:OE1	2:C:256:PRO:HD2	1.17	1.26
2:B:661:THR:CG2	2:B:662:PRO:CD	2.01	1.25
3:M:120:ASP:OD1	3:M:465:THR:HG22	1.32	1.25
2:B:686:TYR:CD1	2:B:687:LEU:CD1	2.19	1.25
2:H:229:LEU:CD1	2:H:229:LEU:O	1.84	1.25
6:S:43:ARG:CB	6:S:44:PRO:HD3	1.55	1.25
3:M:468:LEU:HD22	3:M:469:ARG:O	1.32	1.25
3:M:189:LEU:HA	3:M:193:ARG:CD	1.66	1.25
2:D:129:ALA:HB1	2:D:130:PRO:CD	1.52	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:819:TYR:CB	2:C:820:PRO:CD	1.86	1.24
2:I:916:THR:CB	2:I:917:PRO:HD2	1.64	1.24
3:M:422:LEU:HD21	3:M:444:ARG:NH2	1.51	1.24
2:H:249:LEU:CB	2:H:250:PRO:CD	2.03	1.24
2:B:210:LEU:HD12	2:B:211:PRO:CD	1.69	1.23
2:H:792:LEU:H	2:H:793:PRO:CD	1.47	1.22
2:K:135:TRP:CZ3	2:K:289:ASP:HA	1.72	1.22
2:K:210:LEU:CB	2:K:211:PRO:CD	2.14	1.22
6:S:25:LEU:CD1	6:S:26:PRO:HD2	1.69	1.22
2:A:129:ALA:HB1	2:A:130:PRO:CD	1.64	1.22
2:C:689:HIS:HD2	2:C:836:LYS:NZ	1.36	1.22
2:A:792:LEU:CB	2:A:793:PRO:CD	2.15	1.21
2:F:107:LEU:CD1	2:F:581:VAL:HG22	1.68	1.21
2:A:704:TRP:CD2	2:A:705:PRO:CD	2.21	1.21
2:D:249:LEU:HD12	2:D:250:PRO:CD	1.70	1.21
2:A:207:THR:OG1	2:A:208:PRO:HD2	1.37	1.20
2:G:249:LEU:CD2	2:G:250:PRO:CD	2.19	1.20
2:G:249:LEU:HD13	2:G:250:PRO:O	1.40	1.20
2:C:386:LEU:CD2	2:C:387:PRO:CD	2.18	1.20
2:E:885:GLU:CG	2:E:886:PRO:CD	2.16	1.20
2:G:732:CYS:O	2:G:732:CYS:SG	1.98	1.20
3:M:221:LEU:CD1	3:M:336:ASN:CB	1.99	1.20
2:A:207:THR:CB	2:A:208:PRO:CD	2.18	1.20
2:E:47:ASN:CB	2:E:48:PRO:CD	2.12	1.20
2:E:916:THR:HB	2:E:917:PRO:CD	1.64	1.20
2:L:290:LEU:HB3	2:L:293:GLN:HE21	1.06	1.20
2:A:493:ILE:HG23	2:C:116:TYR:CE1	1.77	1.20
2:A:625:MET:SD	2:A:625:MET:N	2.14	1.19
2:H:800:GLY:HA2	2:H:812:GLY:HA3	1.21	1.19
2:C:255:GLU:HG2	2:C:256:PRO:CD	1.71	1.19
2:E:47:ASN:HB2	2:E:48:PRO:CD	1.71	1.19
1:1:10:ALA:HB3	1:1:11:PRO:CD	1.73	1.19
2:J:100:TYR:HE1	2:J:534:GLN:HG2	1.05	1.18
2:H:229:LEU:O	2:H:229:LEU:HD12	1.05	1.18
2:H:249:LEU:CD1	2:H:250:PRO:HD3	1.74	1.18
2:J:916:THR:CG2	2:J:917:PRO:CD	2.20	1.18
2:B:497:TRP:CH2	2:B:836:LYS:HG3	1.79	1.18
2:J:172:TYR:CD1	2:J:242:VAL:HB	1.77	1.18
2:J:434:GLU:OE1	2:L:126:PRO:HA	1.06	1.18
2:G:148:PRO:HG2	2:H:813:GLN:HG2	1.21	1.18
2:K:249:LEU:HD12	2:K:250:PRO:CD	1.73	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:497:TRP:CZ2	2:B:836:LYS:CE	2.27	1.17
2:G:249:LEU:CD2	2:G:250:PRO:HD2	1.75	1.17
2:F:180:GLU:CG	2:F:181:PRO:HD2	1.74	1.17
2:F:815:TYR:HB3	2:F:816:PRO:CD	1.60	1.17
2:F:819:TYR:N	2:F:820:PRO:CD	1.93	1.17
2:H:792:LEU:H	2:H:793:PRO:HD3	1.09	1.17
2:J:422:GLY:HA2	2:K:142:LYS:CD	1.73	1.17
2:L:388:ASN:HB3	2:L:437:LEU:HD23	1.20	1.17
6:Q:18:SER:H	6:Q:19:PRO:HD2	1.00	1.17
2:C:296:ALA:HB1	2:C:297:PRO:HD2	1.18	1.16
2:H:151:GLY:HA3	2:H:197:LYS:HE2	1.21	1.16
2:K:210:LEU:CB	2:K:211:PRO:HD3	1.70	1.16
2:J:434:GLU:OE1	2:L:126:PRO:CA	1.93	1.16
3:M:408:HIS:CE1	3:M:457:VAL:HG11	1.80	1.16
2:I:634:THR:CG2	6:S:5:MET:HE1	1.76	1.16
2:E:819:TYR:N	2:E:820:PRO:CD	2.04	1.16
2:F:157:ASP:O	2:F:158:ASN:OD1	1.64	1.16
3:M:274:LEU:CD2	3:M:356:VAL:HG21	1.75	1.16
4:N:175:LEU:HG	4:N:176:MET:CE	1.74	1.16
2:E:916:THR:CB	2:E:917:PRO:CD	2.16	1.16
2:F:866:LEU:HD11	4:N:174:GLN:OE1	1.41	1.16
2:K:216:TYR:HB2	2:K:267:ILE:HA	1.22	1.16
3:M:133:ASN:ND2	3:M:490:TYR:HE2	1.37	1.16
2:F:815:TYR:CD2	2:F:816:PRO:HD3	1.80	1.15
2:G:252:THR:N	2:G:253:PRO:HD3	1.61	1.15
2:B:299:ARG:CB	2:B:300:PRO:HD2	1.73	1.15
2:D:242:VAL:HG12	2:D:263:GLU:HB3	1.24	1.15
2:I:382:VAL:HG11	2:I:439:ALA:HA	1.29	1.15
2:L:56:VAL:HG23	2:L:57:THR:HG23	1.27	1.15
1:8:12:ARG:NH1	2:A:621:CYS:HB2	1.62	1.15
2:B:252:THR:N	2:B:253:PRO:CD	2.01	1.15
2:F:386:LEU:HD12	2:F:386:LEU:H	1.03	1.15
2:H:296:ALA:HB1	2:H:297:PRO:CD	1.71	1.15
2:A:255:GLU:CG	2:A:256:PRO:HD2	1.77	1.15
2:C:83:ARG:HB3	2:C:555:GLU:HG3	1.24	1.15
2:I:634:THR:CG2	6:S:5:MET:CE	2.24	1.15
2:F:209:MET:HG3	2:F:286:SER:HB2	1.27	1.14
2:J:332:ASN:CB	4:N:170:GLN:NE2	2.10	1.14
2:D:732:CYS:SG	2:D:732:CYS:O	2.04	1.14
2:E:154:ILE:HD11	2:E:256:PRO:HB2	1.30	1.14
2:G:447:TYR:HA	2:G:451:ALA:HB3	1.30	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:147:ALA:HB3	2:J:148:PRO:CD	1.62	1.14
5:O:278:VAL:HA	5:O:281:GLN:HE21	1.07	1.14
2:A:704:TRP:CE2	2:A:705:PRO:HD3	1.82	1.14
2:B:362:MET:HE1	2:C:754:PHE:HD2	1.10	1.14
2:C:503:ASP:OD1	2:C:836:LYS:HE2	1.44	1.14
2:J:382:VAL:HG11	2:J:439:ALA:HB2	1.15	1.14
2:J:390:CYS:SG	2:J:433:MET:HG2	1.87	1.14
2:C:255:GLU:CG	2:C:256:PRO:CD	2.24	1.14
2:K:249:LEU:HD13	2:K:250:PRO:HD2	1.25	1.14
2:L:210:LEU:HB3	2:L:211:PRO:HD2	1.25	1.14
2:L:654:THR:HG23	2:L:688:ASN:HB3	1.27	1.14
2:A:792:LEU:HB3	2:A:793:PRO:HD3	1.26	1.14
2:B:210:LEU:HD12	2:B:211:PRO:HD3	1.18	1.14
6:Q:18:SER:H	6:Q:19:PRO:CD	1.57	1.13
2:B:693:LYS:HB3	2:B:879:GLU:OE1	1.31	1.13
2:C:179:PRO:HD3	2:C:201:ARG:HD2	1.24	1.13
2:F:111:PRO:HD3	2:F:527:ARG:HH21	1.13	1.13
2:F:252:THR:OG1	2:F:253:PRO:HD2	1.32	1.13
2:K:24:LEU:HD12	2:K:28:LEU:HD23	1.26	1.13
2:L:661:THR:HG22	2:L:680:TYR:HB2	1.23	1.13
3:M:136:MET:HE1	3:M:372:GLN:HG3	1.27	1.13
3:M:374:VAL:CG2	3:M:405:LEU:HD22	1.74	1.13
2:J:212:CYS:O	2:J:212:CYS:SG	2.05	1.13
2:K:249:LEU:CD1	2:K:250:PRO:CD	2.27	1.13
2:C:819:TYR:CD2	2:C:820:PRO:HD3	1.83	1.13
2:G:296:ALA:HB1	2:G:297:PRO:CD	1.78	1.13
2:J:147:ALA:HB3	2:J:148:PRO:HD2	1.24	1.13
2:B:299:ARG:HG2	2:B:300:PRO:HD3	1.26	1.13
2:B:497:TRP:HZ2	2:B:836:LYS:CE	1.58	1.12
2:B:693:LYS:CG	2:B:879:GLU:OE1	1.95	1.12
7:T:107:GLN:HE21	7:T:109:ALA:HB2	1.03	1.13
2:K:895:VAL:HG12	2:K:917:PRO:HG2	1.17	1.12
1:1:10:ALA:CB	1:1:11:PRO:CD	2.27	1.12
2:B:552:TYR:CE2	2:B:909:ILE:HD11	1.83	1.12
2:E:655:ARG:HH22	2:E:883:MET:HB2	1.12	1.12
2:C:296:ALA:HB1	2:C:297:PRO:CD	1.78	1.12
2:A:207:THR:HB	2:A:208:PRO:HD3	1.21	1.12
2:B:289:ASP:HA	2:B:291:LEU:HD12	1.32	1.12
2:B:555:GLU:OE2	3:M:392:THR:HG21	1.48	1.12
2:B:846:ILE:O	2:B:846:ILE:HG13	1.38	1.12
2:J:395:GLY:HA3	2:K:144:ARG:HH22	1.15	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:136:LYS:CG	2:L:140:LYS:CG	2.18	1.12
4:N:187:LEU:HD12	4:N:188:GLU:N	1.63	1.12
2:D:65:THR:HG21	2:E:711:LEU:HB2	1.18	1.12
2:G:142:LYS:HB3	2:I:423:ALA:HA	1.13	1.12
2:K:246:PHE:HD1	2:K:259:VAL:HG21	1.11	1.12
2:C:689:HIS:CD2	2:C:836:LYS:NZ	2.10	1.11
2:H:187:GLN:HA	2:I:809:MET:SD	1.89	1.11
2:L:367:VAL:HG21	2:L:764:MET:HE1	1.27	1.11
2:A:487:LEU:HD11	2:A:499:PRO:HG2	1.32	1.11
2:D:252:THR:N	2:D:253:PRO:HD3	1.62	1.11
2:D:279:ASP:HA	2:D:464:ASN:ND2	1.64	1.11
2:E:198:VAL:HG13	2:E:258:ALA:HB2	1.29	1.11
2:F:537:GLN:HE21	2:F:542:ILE:HD11	1.15	1.11
2:G:425:ILE:HD13	2:H:260:LEU:HG	1.28	1.11
2:H:269:ALA:H	2:H:270:PRO:HD3	1.04	1.11
2:K:252:THR:HG23	2:K:253:PRO:CD	1.81	1.11
2:L:382:VAL:HG11	2:L:439:ALA:HA	1.32	1.11
2:L:710:LEU:HD12	2:L:737:ASP:HB3	1.25	1.11
2:D:121:TYR:CE2	2:D:216:TYR:HB2	1.86	1.11
2:D:390:CYS:HB3	2:D:433:MET:HB3	1.31	1.11
2:D:823:LEU:O	2:D:823:LEU:HD12	1.51	1.11
2:F:175:LYS:NZ	2:F:175:LYS:HB3	1.61	1.11
2:I:310:ILE:HG21	2:I:681:LEU:HD13	1.32	1.11
2:J:916:THR:CB	2:J:917:PRO:HD3	1.81	1.11
1:1:10:ALA:HB3	1:1:11:PRO:HD2	1.31	1.11
2:C:704:TRP:N	2:C:705:PRO:HD2	1.65	1.11
2:D:260:LEU:H	2:D:260:LEU:HD12	0.96	1.11
2:G:900:ARG:HG3	2:G:900:ARG:HH11	1.08	1.11
2:J:332:ASN:HB2	4:N:170:GLN:NE2	1.65	1.11
2:K:299:ARG:HB3	2:K:300:PRO:HD3	1.27	1.11
1:4:22:TRP:O	1:4:23:ASN:ND2	1.83	1.10
2:A:210:LEU:HD23	2:A:211:PRO:HD2	1.13	1.10
2:C:255:GLU:CG	2:C:256:PRO:HD3	1.80	1.10
2:F:188:TRP:HB2	2:F:394:GLY:HA2	1.14	1.10
2:H:249:LEU:HD13	2:H:250:PRO:HD3	1.24	1.10
2:I:195:ALA:HB1	2:I:197:LYS:HE3	1.29	1.10
2:J:422:GLY:CA	2:K:142:LYS:HD2	1.80	1.10
3:M:209:ARG:HD3	3:M:229:ASN:OD1	1.46	1.10
2:B:207:THR:HG21	2:B:265:VAL:H	0.97	1.10
2:D:895:VAL:HG12	2:D:917:PRO:HB2	1.32	1.10
2:E:843:MET:HE1	2:E:892:LEU:HD13	1.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:220:THR:HG22	2:L:221:ASN:HB3	1.33	1.10
3:M:73:LYS:CE	3:M:89:PHE:HB2	1.82	1.10
2:A:210:LEU:CD2	2:A:211:PRO:HD2	1.81	1.10
2:B:656:LEU:HD23	2:B:661:THR:OG1	1.52	1.10
2:I:143:VAL:HG13	2:I:144:ARG:H	1.15	1.10
2:J:704:TRP:CE3	2:J:705:PRO:CD	2.34	1.10
2:K:382:VAL:HG11	2:K:439:ALA:HA	1.31	1.10
7:U:194:PHE:HE1	7:U:198:PHE:HB2	1.15	1.10
2:J:398:ALA:HB3	2:J:426:GLU:HB3	1.20	1.09
3:M:466:LEU:HD12	3:M:467:PRO:HD3	1.23	1.09
1:5:16:ARG:HB2	1:5:16:ARG:HH21	1.15	1.09
1:5:19:MET:SD	1:5:19:MET:N	2.12	1.09
2:B:154:ILE:HB	2:B:160:ILE:HA	1.32	1.09
2:C:356:ARG:HB2	2:C:356:ARG:CZ	1.74	1.09
2:C:800:GLY:HA3	2:C:812:GLY:HA2	1.31	1.09
2:D:96:MET:HE3	2:D:542:ILE:HG23	1.22	1.09
2:D:303:ILE:HD12	2:D:574:LEU:HD21	1.32	1.09
2:F:306:ARG:HD3	2:F:567:GLN:HB2	1.19	1.09
2:F:866:LEU:HD13	4:N:174:GLN:OE1	1.51	1.09
2:H:307:ASP:OD1	2:H:308:ASN:ND2	1.84	1.09
2:K:390:CYS:HB2	2:K:433:MET:HB3	1.32	1.09
3:M:468:LEU:HD23	3:M:469:ARG:H	0.95	1.09
2:A:129:ALA:HB1	2:A:130:PRO:HD3	1.16	1.09
2:E:819:TYR:H	2:E:820:PRO:HD2	1.00	1.09
2:F:107:LEU:HD13	2:F:581:VAL:HG22	1.27	1.09
2:F:178:GLN:CG	2:F:179:PRO:HD2	1.82	1.09
2:F:815:TYR:CG	2:F:816:PRO:HD3	1.87	1.09
2:L:200:GLY:O	2:L:201:ARG:CG	1.99	1.09
2:A:704:TRP:CD2	2:A:705:PRO:HD2	1.83	1.09
2:B:181:PRO:HA	2:C:804:TYR:HE2	1.16	1.09
2:B:375:ARG:HG3	2:B:375:ARG:HH11	0.92	1.09
2:C:691:PHE:HB3	2:C:718:ILE:HD13	1.35	1.09
2:F:815:TYR:CB	2:F:816:PRO:CD	2.25	1.09
2:J:916:THR:HG23	2:J:917:PRO:HD2	1.25	1.09
3:M:73:LYS:NZ	3:M:89:PHE:HB3	1.57	1.09
2:A:744:LEU:HD23	2:A:853:MET:HG3	1.34	1.09
2:B:497:TRP:HH2	2:B:836:LYS:HG3	1.03	1.09
2:B:636:VAL:HG21	2:B:889:LEU:HD11	1.29	1.09
2:D:914:LEU:HB3	2:F:13:MET:HE1	1.28	1.09
2:E:916:THR:OG1	2:E:917:PRO:HD2	1.50	1.09
2:C:154:ILE:HG12	2:C:197:LYS:HZ2	1.18	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:811:GLU:HA	2:F:429:ASN:HD21	1.11	1.08
2:E:885:GLU:HG2	2:E:886:PRO:HD3	1.35	1.08
2:H:125:ALA:HB1	2:H:126:PRO:HD2	1.15	1.08
2:J:254:ASN:O	2:J:255:GLU:HG3	1.52	1.08
2:E:379:ASN:HD21	2:E:493:ILE:HA	1.14	1.08
2:J:895:VAL:HG11	2:J:917:PRO:HA	1.31	1.08
3:M:221:LEU:HD21	3:M:336:ASN:HA	1.31	1.08
2:B:729:VAL:HB	2:B:736:LYS:HB2	1.26	1.08
2:E:435:ILE:HD11	2:F:390:CYS:HA	1.15	1.08
2:E:881:ASP:OD1	2:E:882:PRO:CD	2.01	1.08
2:F:375:ARG:HD3	2:F:507:PRO:HG3	1.35	1.08
2:G:140:LYS:HB3	2:I:418:TYR:HA	1.09	1.08
2:G:358:ARG:HG3	2:G:358:ARG:HH11	1.18	1.08
2:H:210:LEU:HB3	2:H:211:PRO:HD2	1.34	1.08
2:J:81:LYS:HE3	2:J:557:ASN:HD21	1.17	1.08
2:L:212:CYS:O	2:L:212:CYS:SG	2.12	1.08
3:M:77:ILE:CD1	3:M:92:THR:HB	1.83	1.08
2:D:483:VAL:HG23	2:D:805:MET:HA	1.36	1.08
2:I:916:THR:OG1	2:I:917:PRO:HD2	1.38	1.08
6:P:1:MET:HE3	6:R:39:ASN:HA	1.35	1.08
2:E:490:TYR:HA	2:E:493:ILE:HD11	1.31	1.07
2:K:216:TYR:CB	2:K:267:ILE:HA	1.84	1.07
2:L:136:LYS:CD	2:L:140:LYS:HG2	1.83	1.07
2:A:818:ASN:O	2:A:818:ASN:OD1	1.72	1.07
2:B:199:ALA:HA	2:B:259:VAL:HG12	1.12	1.07
2:C:704:TRP:H	2:C:705:PRO:CD	1.67	1.07
3:M:173:GLU:OE2	3:M:254:LEU:O	1.71	1.07
1:8:16:ARG:HG3	1:8:17:PRO:CD	1.83	1.07
2:C:299:ARG:HD2	2:C:452:LEU:HD11	1.35	1.07
2:E:916:THR:HB	2:E:917:PRO:HD2	1.13	1.07
2:G:140:LYS:HB3	2:I:418:TYR:CA	1.83	1.07
2:J:180:GLU:CB	2:J:181:PRO:HD2	1.79	1.07
2:J:254:ASN:OD1	2:J:255:GLU:HG3	1.55	1.07
2:J:298:ASN:HB3	2:J:478:ASN:HD21	1.15	1.07
7:U:13:TYR:HB2	7:U:194:PHE:CE2	1.87	1.07
2:B:14:HIS:CE1	2:C:900:ARG:HH21	1.72	1.07
2:C:386:LEU:CD2	2:C:387:PRO:HD2	1.81	1.07
2:C:597:HIS:CB	7:T:93:ARG:HH22	1.68	1.07
2:F:467:LEU:HD11	2:F:479:GLY:HA3	1.34	1.07
2:J:202:VAL:HG11	2:J:260:LEU:HD13	1.32	1.07
2:J:471:LYS:HD3	2:J:476:TYR:HE2	1.17	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:454:LEU:HG	2:L:502:MET:HE1	1.22	1.07
3:M:197:VAL:CG1	3:M:201:ASP:CB	2.32	1.07
2:E:895:VAL:HG12	2:E:917:PRO:CB	1.84	1.07
2:K:521:MET:SD	2:L:380:HIS:NE2	2.27	1.07
3:M:189:LEU:HA	3:M:193:ARG:HD2	1.29	1.07
2:B:661:THR:CB	2:B:662:PRO:CD	2.30	1.06
2:B:686:TYR:CD1	2:B:687:LEU:HD11	1.87	1.06
2:C:299:ARG:HB3	2:C:300:PRO:CD	1.85	1.06
2:D:129:ALA:HB1	2:D:130:PRO:HD3	1.16	1.06
2:D:208:PRO:HD3	2:D:284:THR:HG21	1.34	1.06
2:G:249:LEU:HD22	2:G:250:PRO:HD2	1.09	1.06
4:N:170:GLN:N	4:N:171:PRO:HD3	1.70	1.06
1:0:20:ALA:H	1:0:21:PRO:HD2	1.01	1.06
2:A:709:ARG:HB2	2:A:709:ARG:NH1	1.69	1.06
2:B:169:GLN:HB3	2:B:170:PRO:HD3	1.29	1.06
2:B:277:LYS:HE2	2:B:465:ILE:HG13	1.32	1.06
2:D:516:LEU:HA	2:D:519:ARG:HD3	1.32	1.06
1:4:19:MET:HE3	2:B:34:ALA:HB1	1.08	1.06
2:B:529:VAL:HB	2:C:777:GLN:HE22	1.20	1.06
2:G:320:ASN:HB3	2:G:557:ASN:HD22	1.03	1.06
2:I:103:ILE:HD12	2:I:533:ILE:HD11	1.37	1.06
1:5:16:ARG:HH21	1:5:16:ARG:CB	1.67	1.06
2:B:296:ALA:HB1	2:B:297:PRO:CD	1.82	1.06
2:B:629:ILE:HD11	2:B:889:LEU:HG	1.31	1.06
2:E:515:GLY:O	2:E:519:ARG:NE	1.89	1.06
2:F:870:SER:OG	4:N:177:VAL:HG13	1.55	1.06
2:J:46:ARG:HH11	2:J:46:ARG:HB3	0.99	1.06
2:J:181:PRO:HG2	2:J:186:THR:HA	1.06	1.06
2:J:794:PHE:HE1	2:L:224:GLY:HA2	1.14	1.06
2:A:13:MET:HE3	2:A:13:MET:HA	1.37	1.06
2:F:135:TRP:HA	2:F:135:TRP:CE3	1.77	1.06
2:H:249:LEU:HD12	2:H:252:THR:HB	1.06	1.06
2:I:178:GLN:HB3	2:I:181:PRO:HG3	1.13	1.06
3:M:73:LYS:CD	3:M:81:ASN:CG	2.27	1.06
3:M:274:LEU:HD23	3:M:356:VAL:HG21	1.16	1.06
2:D:210:LEU:CB	2:D:211:PRO:HD2	1.86	1.05
2:D:813:GLN:HE22	2:F:200:GLY:HA3	0.94	1.05
2:E:56:VAL:HG23	2:E:57:THR:HG23	1.36	1.05
2:G:296:ALA:HB1	2:G:297:PRO:HD3	1.36	1.05
2:J:376:ILE:HD12	2:J:774:MET:HE1	1.37	1.05
2:L:868:ALA:O	7:U:14:GLN:NE2	1.88	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:468:LEU:HD23	3:M:469:ARG:N	1.70	1.05
2:A:447:TYR:HD2	2:B:386:LEU:HD23	1.21	1.05
2:B:252:THR:N	2:B:253:PRO:HD2	1.59	1.05
2:B:497:TRP:CZ2	2:B:836:LYS:CD	2.39	1.05
2:J:153:ASN:HB3	2:J:161:GLN:HG3	1.33	1.05
2:J:433:MET:SD	2:K:390:CYS:HB3	1.96	1.05
3:M:150:LYS:HG3	3:M:155:GLY:CA	1.85	1.05
2:B:717:GLU:HB3	2:B:735:THR:HG21	1.36	1.05
2:J:433:MET:HE3	2:L:433:MET:HE2	1.06	1.05
2:L:136:LYS:CD	2:L:140:LYS:HE2	1.85	1.05
2:A:207:THR:HB	2:A:208:PRO:CD	1.78	1.05
2:B:661:THR:HB	2:B:662:PRO:HD2	1.38	1.05
2:C:498:SER:HB3	2:C:774:MET:HE1	1.39	1.05
2:D:13:MET:HE1	2:E:914:LEU:HB3	1.37	1.05
2:D:382:VAL:HG11	2:D:439:ALA:HA	1.36	1.05
2:D:809:MET:HE3	2:D:810:ARG:HG2	1.36	1.05
2:G:140:LYS:HE2	2:I:419:ALA:HB3	1.09	1.05
2:G:904:PRO:HD2	2:G:908:VAL:HG13	1.37	1.05
3:M:150:LYS:HG3	3:M:155:GLY:HA2	1.07	1.05
2:C:24:LEU:HD11	2:C:45:PHE:HE2	1.18	1.05
2:C:386:LEU:HD23	2:C:387:PRO:HD2	1.29	1.05
2:C:516:LEU:HA	2:C:519:ARG:HH21	1.21	1.05
2:D:318:THR:HA	2:D:321:MET:HE2	1.38	1.05
2:F:175:LYS:HB3	2:F:175:LYS:HZ3	1.11	1.05
2:F:399:THR:CA	2:F:426:GLU:HB3	1.85	1.05
2:F:709:ARG:HG3	2:F:709:ARG:NH1	1.72	1.05
2:H:492:ASN:HD22	2:H:497:TRP:HB3	1.16	1.05
2:J:386:LEU:HD23	2:J:386:LEU:H	0.90	1.05
3:M:139:ASN:OD1	3:M:166:LEU:O	1.75	1.05
2:A:255:GLU:HG3	2:A:256:PRO:CD	1.87	1.04
2:A:389:TYR:CZ	2:C:433:MET:SD	2.49	1.04
2:C:179:PRO:HG3	2:C:201:ARG:HD3	1.39	1.04
2:G:724:GLY:CA	2:G:726:GLY:HA2	1.86	1.04
1:5:25:ILE:H	1:5:25:ILE:HD13	1.14	1.04
2:A:796:HIS:HE1	2:C:179:PRO:HG2	1.21	1.04
2:F:626:LEU:HB3	2:F:888:LEU:HD21	1.38	1.04
3:M:374:VAL:HG23	3:M:405:LEU:HD23	1.08	1.04
6:R:18:SER:H	6:R:19:PRO:HD3	1.15	1.04
1:7:12:ARG:HB3	2:G:619:TYR:HD1	1.23	1.04
2:B:269:ALA:H	2:B:270:PRO:HD2	0.89	1.04
2:C:375:ARG:HB3	2:C:376:ILE:HD12	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:390:CYS:SG	2:C:433:MET:CB	2.45	1.04
2:D:175:LYS:O	2:D:175:LYS:HD3	1.54	1.04
2:D:223:LYS:HB2	2:D:223:LYS:NZ	1.68	1.04
2:D:406:LYS:HB2	2:D:410:GLN:CA	1.87	1.04
2:E:919:SER:HB2	7:T:106:ALA:HB2	1.39	1.04
2:G:252:THR:N	2:G:253:PRO:CD	2.14	1.04
2:J:227:ALA:HB3	2:J:265:VAL:HG12	1.35	1.04
2:K:454:LEU:HD23	2:K:502:MET:HE2	1.34	1.04
3:M:468:LEU:CD2	3:M:469:ARG:O	2.05	1.04
2:A:309:PHE:CE1	2:A:364:ASN:HB2	1.92	1.04
2:B:455:PRO:HD3	2:B:505:VAL:HG21	1.37	1.04
2:B:863:GLN:HA	2:B:866:LEU:HD13	1.40	1.04
2:C:299:ARG:HH21	2:C:570:LEU:HD11	1.21	1.04
2:F:178:GLN:CB	2:F:179:PRO:CD	1.77	1.04
2:F:252:THR:OG1	2:F:253:PRO:HD3	1.57	1.04
2:F:920:ALA:HA	2:H:702:VAL:HG22	1.39	1.04
2:G:497:TRP:HA	2:G:774:MET:HE3	1.38	1.04
2:G:724:GLY:HA3	2:G:726:GLY:HA2	1.05	1.04
2:I:151:GLY:H	2:I:197:LYS:HB3	1.21	1.04
2:K:249:LEU:HD12	2:K:250:PRO:HD2	1.05	1.04
2:L:146:GLN:NE2	2:L:146:GLN:HA	1.69	1.04
3:M:407:VAL:HG12	3:M:456:ASN:CG	1.82	1.04
2:B:651:TRP:HB2	2:B:846:ILE:HD11	1.38	1.04
2:C:299:ARG:CB	2:C:300:PRO:HD3	1.87	1.04
2:L:626:LEU:HD13	2:L:888:LEU:HD23	1.39	1.04
4:N:179:LYS:O	4:N:180:ARG:CG	2.06	1.04
2:C:819:TYR:HB3	2:C:820:PRO:HD2	1.07	1.03
2:F:399:THR:HA	2:F:426:GLU:CB	1.87	1.03
2:G:140:LYS:HE2	2:I:419:ALA:CB	1.87	1.03
2:H:182:GLN:HB2	2:H:184:GLY:H	1.17	1.03
2:H:249:LEU:HD13	2:H:250:PRO:CD	1.87	1.03
2:B:210:LEU:HD13	2:B:211:PRO:HD3	1.32	1.03
2:G:249:LEU:HD22	2:G:250:PRO:HD3	1.06	1.03
2:G:273:HIS:HB3	2:G:298:ASN:HD21	1.18	1.03
2:G:382:VAL:HG21	2:G:439:ALA:HB2	1.40	1.03
2:H:249:LEU:CB	2:H:250:PRO:HD3	1.81	1.03
2:I:634:THR:HG21	6:S:5:MET:HE3	1.32	1.03
2:K:299:ARG:HB3	2:K:300:PRO:CD	1.86	1.03
1:0:20:ALA:H	1:0:21:PRO:CD	1.69	1.03
2:A:9:GLN:HB2	2:A:10:TRP:HD1	1.17	1.03
2:C:582:ARG:HB3	2:C:584:ASP:H	1.21	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:212:CYS:O	2:H:212:CYS:SG	2.17	1.03
2:C:255:GLU:OE1	2:C:256:PRO:CD	2.06	1.03
2:D:813:GLN:HE22	2:F:200:GLY:CA	1.72	1.03
2:E:2:ALA:N	4:N:187:LEU:CD2	2.20	1.03
2:L:308:ASN:ND2	2:L:346:TYR:HD2	1.54	1.03
2:L:609:ASN:ND2	7:U:179:SER:OG	1.90	1.03
3:M:124:ILE:HG12	3:M:460:LEU:HD22	1.37	1.03
2:B:686:TYR:CE1	2:B:687:LEU:CD1	2.41	1.03
2:E:435:ILE:HD11	2:F:390:CYS:CA	1.87	1.03
2:E:588:LEU:HD12	2:E:589:TYR:H	1.22	1.03
2:E:800:GLY:HA2	2:E:812:GLY:HA3	1.36	1.03
2:E:915:ARG:HH21	2:E:915:ARG:CG	1.72	1.03
2:F:152:THR:HA	2:F:196:GLN:NE2	1.74	1.03
2:H:151:GLY:HA3	2:H:197:LYS:CE	1.88	1.03
2:J:202:VAL:CG1	2:J:260:LEU:HD13	1.88	1.03
2:D:434:GLU:OE1	2:F:126:PRO:HA	1.57	1.02
2:J:100:TYR:CE1	2:J:534:GLN:HG2	1.94	1.02
2:L:711:LEU:HD22	2:L:727:TYR:HE1	1.24	1.02
2:E:197:LYS:HA	2:E:197:LYS:NZ	1.74	1.02
2:F:269:ALA:H	2:F:270:PRO:CD	1.72	1.02
2:H:125:ALA:HB1	2:H:126:PRO:CD	1.87	1.02
2:I:620:LEU:HD22	2:I:622:ALA:HB2	1.40	1.02
2:J:386:LEU:HD23	2:J:386:LEU:N	1.69	1.02
2:L:636:VAL:HG11	2:L:889:LEU:HD22	1.40	1.02
2:B:177:TYR:CE2	2:B:200:GLY:HA2	1.94	1.02
2:E:704:TRP:HZ3	2:E:861:LEU:HD23	1.25	1.02
2:E:811:GLU:HA	2:F:429:ASN:ND2	1.74	1.02
2:H:160:ILE:HB	2:H:197:LYS:HE3	1.40	1.02
2:H:201:ARG:HH11	2:H:201:ARG:HG2	0.85	1.02
2:J:46:ARG:HB3	2:J:46:ARG:NH1	1.73	1.02
2:J:121:TYR:N	2:J:121:TYR:CD1	2.26	1.02
2:J:255:GLU:HB3	2:J:256:PRO:HD2	1.40	1.02
2:J:810:ARG:NH1	2:K:430:ILE:O	1.92	1.02
2:B:797:ASN:O	2:B:797:ASN:ND2	1.92	1.02
2:D:187:GLN:HA	2:D:187:GLN:NE2	1.71	1.02
2:E:47:ASN:HB3	2:E:48:PRO:HD3	1.04	1.02
2:H:249:LEU:CG	2:H:250:PRO:HD3	1.88	1.02
2:H:290:LEU:H	2:H:290:LEU:HD12	1.21	1.02
2:J:164:THR:CG2	2:J:168:ASN:OD1	2.08	1.02
2:K:269:ALA:H	2:K:270:PRO:HD2	1.19	1.02
2:C:104:ARG:HG3	2:C:104:ARG:HH11	1.20	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:386:LEU:CD2	2:C:387:PRO:HD3	1.81	1.02
2:E:915:ARG:HH21	2:E:915:ARG:HG2	0.90	1.02
2:G:386:LEU:H	2:G:386:LEU:HD12	1.21	1.02
2:I:173:ALA:HB1	2:I:221:ASN:ND2	1.74	1.02
2:J:709:ARG:HH11	2:J:709:ARG:CG	1.72	1.02
2:K:114:LYS:HZ3	2:K:298:ASN:HB2	1.23	1.02
2:K:246:PHE:CD1	2:K:259:VAL:HG21	1.94	1.02
2:L:273:HIS:NE2	2:L:478:ASN:OD1	1.92	1.02
2:A:779:VAL:HG12	2:A:829:VAL:HG21	1.37	1.01
2:B:623:ALA:HB2	2:B:915:ARG:HH22	1.25	1.01
2:E:47:ASN:HB2	2:E:48:PRO:HD3	1.20	1.01
2:E:811:GLU:N	2:E:811:GLU:OE1	1.91	1.01
2:H:249:LEU:CD1	2:H:250:PRO:CD	2.37	1.01
2:J:180:GLU:HB3	2:J:181:PRO:HD2	1.02	1.01
3:M:124:ILE:HG12	3:M:460:LEU:HD23	1.39	1.01
1:4:19:MET:HE3	2:B:34:ALA:CB	1.89	1.01
2:B:181:PRO:HA	2:C:804:TYR:CE2	1.96	1.01
2:B:497:TRP:CH2	2:B:836:LYS:CG	2.43	1.01
2:C:454:LEU:HB3	2:C:455:PRO:HD2	1.05	1.01
2:E:779:VAL:HG12	2:E:829:VAL:HG21	1.39	1.01
2:F:178:GLN:HB3	2:F:179:PRO:CD	1.89	1.01
2:F:819:TYR:H	2:F:820:PRO:HD2	1.23	1.01
2:J:916:THR:OG1	2:J:917:PRO:HD3	1.57	1.01
2:B:210:LEU:CD1	2:B:211:PRO:CD	2.32	1.01
2:D:191:GLU:HB3	2:D:194:ALA:H	1.23	1.01
2:D:292:THR:HA	2:F:188:TRP:CH2	1.94	1.01
2:F:636:VAL:HG21	2:F:889:LEU:HD21	1.39	1.01
2:F:819:TYR:N	2:F:820:PRO:HD3	1.59	1.01
2:G:202:VAL:HG21	2:G:260:LEU:HD13	1.43	1.01
2:G:390:CYS:HB3	2:I:435:ILE:HD11	1.43	1.01
2:J:115:PRO:HA	2:J:302:TYR:HE1	1.23	1.01
2:A:622:ALA:HB3	2:A:895:VAL:H	1.20	1.01
2:B:99:THR:HG23	2:B:588:LEU:HD11	1.40	1.01
2:B:269:ALA:N	2:B:270:PRO:HD2	1.73	1.01
2:B:895:VAL:HG21	2:B:917:PRO:CD	1.89	1.01
2:B:921:GLY:C	2:B:923:ALA:H	1.66	1.01
2:C:616:PHE:N	2:C:616:PHE:CD1	2.29	1.01
2:C:819:TYR:CD1	2:C:820:PRO:HD3	1.94	1.01
2:G:208:PRO:HG3	2:G:285:ILE:HD11	1.42	1.01
2:J:382:VAL:HG11	2:J:439:ALA:CB	1.91	1.01
1:0:20:ALA:N	1:0:21:PRO:HD2	1.76	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:56:VAL:HG13	2:H:57:THR:HG23	1.42	1.01
2:H:871:ALA:CB	4:N:180:ARG:HH12	1.73	1.01
2:J:433:MET:CE	2:L:433:MET:HE2	1.89	1.01
3:M:150:LYS:CG	3:M:155:GLY:HA2	1.90	1.01
2:A:896:PHE:CE1	2:C:15:ILE:HD11	1.95	1.00
2:B:249:LEU:CB	2:B:250:PRO:CD	2.40	1.00
2:K:622:ALA:HA	2:K:895:VAL:HG22	1.38	1.00
3:M:197:VAL:HG13	3:M:201:ASP:CB	1.91	1.00
2:A:207:THR:OG1	2:A:208:PRO:CD	2.05	1.00
2:D:228:SER:HG	2:D:241:ASP:N	1.59	1.00
2:E:819:TYR:N	2:E:820:PRO:HD2	1.73	1.00
2:F:115:PRO:HD2	2:F:116:TYR:HB3	1.40	1.00
2:A:792:LEU:HB3	2:A:793:PRO:HD2	1.02	1.00
2:B:269:ALA:H	2:B:270:PRO:CD	1.73	1.00
2:B:697:MET:HB2	2:B:701:SER:HA	1.44	1.00
2:D:406:LYS:HB2	2:D:410:GLN:HA	1.00	1.00
2:D:788:GLN:HE22	2:F:221:ASN:H	1.04	1.00
2:F:867:TYR:OH	2:J:922:ASN:ND2	1.92	1.00
2:G:140:LYS:CE	2:I:419:ALA:HB3	1.90	1.00
2:H:201:ARG:HH11	2:H:201:ARG:CG	1.75	1.00
2:K:269:ALA:N	2:K:270:PRO:CD	2.16	1.00
2:L:390:CYS:N	2:L:433:MET:O	1.95	1.00
3:M:384:ASP:OD1	3:M:398:PRO:HG3	1.59	1.00
3:M:466:LEU:HD12	3:M:467:PRO:CD	1.91	1.00
2:J:178:GLN:O	2:J:178:GLN:HG3	1.62	1.00
2:J:709:ARG:HH11	2:J:709:ARG:HG3	0.86	1.00
2:J:794:PHE:CE1	2:L:224:GLY:HA2	1.95	1.00
6:P:23:THR:HG22	6:R:21:LEU:HD12	1.44	1.00
2:C:704:TRP:N	2:C:705:PRO:CD	2.20	1.00
2:D:390:CYS:O	2:F:433:MET:HE2	1.61	1.00
2:H:343:GLU:HG3	2:H:681:LEU:HD12	1.40	1.00
2:I:634:THR:HG21	6:S:5:MET:HE1	1.35	1.00
3:M:274:LEU:HD23	3:M:356:VAL:CG2	1.91	1.00
2:C:743:MET:HE2	2:C:749:ILE:HG12	1.43	1.00
2:H:201:ARG:HG2	2:H:201:ARG:NH1	1.67	1.00
2:I:206:THR:OG1	2:I:264:ASN:OD1	1.77	1.00
2:J:210:LEU:HB3	2:J:211:PRO:HD2	1.44	1.00
2:E:138:ASN:HB3	2:E:140:LYS:HG3	1.43	1.00
2:B:249:LEU:HB3	2:B:250:PRO:CD	1.92	0.99
2:B:375:ARG:HH11	2:B:375:ARG:CG	1.74	0.99
2:B:792:LEU:H	2:B:793:PRO:CD	1.74	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:453:TYR:CE2	2:C:510:HIS:HA	1.97	0.99
2:C:720:ARG:HH11	2:C:720:ARG:HG2	1.24	0.99
2:D:813:GLN:NE2	2:F:200:GLY:HA3	1.76	0.99
2:F:662:PRO:HD3	2:F:678:VAL:HG21	1.44	0.99
2:I:548:LEU:HD21	2:I:607:LEU:HD22	1.41	0.99
1:8:12:ARG:HH12	2:A:621:CYS:CB	1.74	0.99
2:E:895:VAL:HG12	2:E:917:PRO:HB3	1.43	0.99
2:H:296:ALA:HB1	2:H:297:PRO:HD2	1.43	0.99
2:H:331:LEU:HD21	2:L:597:HIS:HE1	1.26	0.99
2:I:180:GLU:H	2:I:181:PRO:HD3	1.27	0.99
3:M:133:ASN:ND2	3:M:490:TYR:CZ	2.31	0.99
2:D:247:PHE:CZ	2:F:403:SER:HA	1.97	0.99
2:D:260:LEU:HD12	2:D:260:LEU:N	1.76	0.99
2:F:498:SER:HB3	2:F:774:MET:HE1	1.44	0.99
2:F:819:TYR:H	2:F:820:PRO:HD3	0.85	0.99
2:B:180:GLU:OE1	2:B:181:PRO:HD3	1.63	0.99
2:B:651:TRP:CB	2:B:846:ILE:HD11	1.92	0.99
2:C:432:ALA:O	2:C:433:MET:HG3	1.62	0.99
1:8:27:THR:HG22	2:A:48:PRO:HG2	1.44	0.99
2:F:815:TYR:CB	2:F:816:PRO:HD3	1.91	0.99
2:D:160:ILE:H	2:D:160:ILE:HD12	1.28	0.99
2:D:249:LEU:HD12	2:D:250:PRO:HD2	0.99	0.99
2:E:201:ARG:HG3	2:F:815:TYR:CE1	1.97	0.99
2:F:144:ARG:HG3	2:F:144:ARG:HH21	1.24	0.99
2:J:332:ASN:HB3	4:N:170:GLN:NE2	1.78	0.99
2:G:142:LYS:HB3	2:I:423:ALA:CA	1.92	0.99
2:G:563:ASN:HD21	2:G:575:ARG:HG3	1.24	0.99
4:N:187:LEU:CD1	4:N:188:GLU:H	1.76	0.99
6:Q:25:LEU:HD12	6:Q:26:PRO:HD2	1.44	0.99
2:B:252:THR:H	2:B:253:PRO:HD2	0.87	0.99
2:C:548:LEU:HD23	2:C:608:ARG:CZ	1.93	0.99
2:G:712:THR:CB	2:G:713:PRO:CD	2.29	0.99
2:L:249:LEU:HD23	2:L:250:PRO:HD2	1.44	0.99
2:L:299:ARG:HH11	2:L:570:LEU:HD11	1.27	0.99
2:C:453:TYR:HE2	2:C:510:HIS:HA	1.25	0.99
2:B:468:PRO:HG3	2:B:475:ALA:HB3	1.43	0.98
2:H:269:ALA:H	2:H:270:PRO:CD	1.73	0.98
2:I:779:VAL:HG12	2:I:829:VAL:HG21	1.45	0.98
2:J:895:VAL:CG1	2:J:917:PRO:HA	1.93	0.98
2:A:356:ARG:HE	2:A:367:VAL:HG22	1.27	0.98
2:A:744:LEU:HD21	2:A:751:TYR:HE1	1.28	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:269:ALA:N	2:K:270:PRO:HD2	1.73	0.98
2:A:497:TRP:HA	2:A:774:MET:HE2	1.45	0.98
2:A:640:ILE:HB	2:A:874:LEU:HG	1.42	0.98
2:B:144:ARG:CZ	2:B:144:ARG:HB3	1.89	0.98
2:A:255:GLU:HG3	2:A:256:PRO:HD2	1.01	0.98
2:A:796:HIS:CE1	2:C:179:PRO:HG2	1.97	0.98
2:C:114:LYS:CE	2:C:298:ASN:HB2	1.94	0.98
2:I:187:GLN:N	2:I:187:GLN:OE1	1.96	0.98
2:K:781:THR:HG22	2:K:787:TYR:HE2	1.29	0.98
2:E:367:VAL:HG11	2:E:764:MET:HE1	1.45	0.98
2:H:188:TRP:HD1	2:H:394:GLY:HA3	1.29	0.98
2:A:744:LEU:HD21	2:A:751:TYR:CE1	1.97	0.98
2:B:693:LYS:HB3	2:B:879:GLU:HB2	1.45	0.98
2:C:96:MET:HE2	2:C:547:LEU:HD11	1.45	0.98
2:C:226:GLN:HA	2:C:226:GLN:HE21	1.25	0.98
2:D:160:ILE:HD12	2:D:160:ILE:N	1.78	0.98
2:F:107:LEU:CD1	2:F:581:VAL:CG2	2.40	0.98
2:H:396:SER:HB3	2:H:426:GLU:HG2	1.42	0.98
2:J:377:ILE:HG22	2:J:499:PRO:HD3	1.45	0.98
2:L:344:LEU:HD22	2:L:620:LEU:HD22	1.45	0.98
1:1:16:ARG:HA	1:1:16:ARG:NE	1.73	0.98
2:A:798:ASN:HD21	2:C:124:LEU:HB2	1.26	0.98
2:B:467:LEU:HB3	2:B:468:PRO:HD2	1.46	0.98
2:B:823:LEU:O	2:B:823:LEU:HD23	1.64	0.98
2:G:906:ARG:HH11	2:G:906:ARG:HG2	1.25	0.98
2:A:80:TYR:HB3	2:A:558:PHE:HB2	1.45	0.98
2:A:227:ALA:HA	2:A:265:VAL:HG12	1.46	0.98
2:B:362:MET:HE1	2:C:754:PHE:CD2	1.98	0.98
2:E:305:PHE:CE2	2:E:533:ILE:HD11	1.99	0.98
2:C:209:MET:HE2	2:C:209:MET:CA	1.94	0.98
2:F:177:TYR:HD1	2:F:177:TYR:O	1.47	0.98
2:G:656:LEU:HD23	2:G:679:PRO:HG2	1.44	0.98
6:P:10:VAL:HG11	6:Q:17:PHE:HB2	1.45	0.98
2:A:309:PHE:HE1	2:A:364:ASN:HB2	1.29	0.97
2:C:454:LEU:HB3	2:C:455:PRO:HD3	1.02	0.97
2:G:189:ASN:HD22	2:G:393:LEU:HD21	1.26	0.97
2:G:433:MET:SD	2:H:433:MET:HE2	2.03	0.97
2:G:914:LEU:HB2	2:I:13:MET:HE1	1.43	0.97
2:K:135:TRP:CD1	2:K:141:ILE:HB	2.00	0.97
2:L:210:LEU:HB3	2:L:211:PRO:CD	1.92	0.97
5:O:89:THR:HG22	5:O:94:ILE:HG13	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:374:VAL:HG21	3:M:405:LEU:HD22	1.43	0.97
2:C:352:ALA:HB3	2:C:353:LEU:HD12	1.43	0.97
2:D:175:LYS:HD3	2:D:175:LYS:C	1.88	0.97
2:D:406:LYS:CB	2:D:410:GLN:HA	1.92	0.97
2:F:636:VAL:HG22	2:F:878:PHE:HB2	1.46	0.97
2:F:780:ASN:OD1	2:F:783:THR:N	1.98	0.97
2:B:299:ARG:CG	2:B:300:PRO:CD	2.15	0.97
2:E:197:LYS:HA	2:E:197:LYS:HZ3	1.24	0.97
2:E:810:ARG:O	2:E:810:ARG:NH1	1.97	0.97
2:H:561:ASP:OD1	2:H:575:ARG:NH1	1.97	0.97
2:I:401:THR:HG21	2:I:421:ARG:HB3	1.45	0.97
2:L:176:THR:HG23	2:L:201:ARG:HD2	1.45	0.97
2:A:371:ASP:HB3	2:A:374:VAL:HG12	1.47	0.97
2:A:811:GLU:HG2	2:C:181:PRO:HB2	1.46	0.97
2:C:146:GLN:HG3	2:C:147:ALA:H	1.29	0.97
2:C:226:GLN:HA	2:C:226:GLN:NE2	1.76	0.97
2:D:788:GLN:NE2	2:F:221:ASN:H	1.61	0.97
2:E:197:LYS:HA	2:E:197:LYS:CE	1.94	0.97
2:E:305:PHE:HE2	2:E:533:ILE:HD11	1.30	0.97
2:E:658:THR:HG21	2:E:886:PRO:HB2	1.47	0.97
2:H:88:VAL:HG23	2:H:549:PRO:HA	1.46	0.97
2:H:188:TRP:CD1	2:H:394:GLY:HA3	1.98	0.97
2:H:895:VAL:HG13	2:H:917:PRO:HD2	1.46	0.97
2:I:187:GLN:CD	2:I:187:GLN:H	1.71	0.97
2:K:433:MET:HE3	2:K:434:GLU:H	1.27	0.97
2:D:249:LEU:CD1	2:D:250:PRO:HD2	1.94	0.97
2:J:589:TYR:HE2	2:K:736:LYS:HZ2	1.12	0.97
2:J:709:ARG:HG3	2:J:709:ARG:NH1	1.61	0.97
2:B:338:GLN:NE2	2:B:338:GLN:O	1.96	0.97
2:E:815:TYR:CG	2:E:816:PRO:HD2	1.99	0.97
2:C:255:GLU:CD	2:C:256:PRO:CD	2.35	0.97
2:C:704:TRP:H	2:C:705:PRO:HD2	1.17	0.97
2:F:382:VAL:HG21	2:F:439:ALA:HA	1.44	0.97
2:I:160:ILE:HG22	2:I:170:PRO:HG3	1.46	0.97
2:J:100:TYR:HE1	2:J:534:GLN:CG	1.77	0.97
3:M:468:LEU:CD2	3:M:469:ARG:H	1.78	0.97
2:B:199:ALA:HA	2:B:259:VAL:CG1	1.93	0.97
2:E:819:TYR:H	2:E:820:PRO:HD3	1.27	0.97
2:G:497:TRP:HA	2:G:774:MET:CE	1.93	0.97
2:H:649:ARG:HD2	2:H:896:PHE:HE1	1.27	0.97
5:O:219:MET:HB2	5:O:262:LEU:HD21	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:651:TRP:HB2	2:B:846:ILE:CD1	1.95	0.96
2:C:315:TYR:CZ	2:C:538:LYS:HB2	1.99	0.96
2:C:725:GLU:OE2	2:C:725:GLU:N	1.98	0.96
2:F:180:GLU:OE2	2:F:181:PRO:HD3	1.65	0.96
4:N:175:LEU:O	4:N:176:MET:HE2	1.63	0.96
2:G:916:THR:CB	2:G:917:PRO:CD	2.23	0.96
2:I:158:ASN:OD1	2:I:169:GLN:NE2	1.98	0.96
2:J:332:ASN:HB3	4:N:170:GLN:HE21	1.29	0.96
2:L:83:ARG:HG2	2:L:555:GLU:HB3	1.46	0.96
2:L:388:ASN:CB	2:L:437:LEU:HD23	1.95	0.96
2:B:651:TRP:CG	2:B:846:ILE:HD11	2.00	0.96
2:B:863:GLN:HG3	5:O:59:ALA:HB2	1.45	0.96
2:F:104:ARG:HH11	2:F:104:ARG:CB	1.77	0.96
2:F:173:ALA:HB1	2:F:221:ASN:ND2	1.81	0.96
2:G:146:GLN:OE1	2:H:814:ALA:N	1.98	0.96
2:J:188:TRP:HB3	2:K:809:MET:HE1	1.46	0.96
2:F:187:GLN:OE1	2:F:187:GLN:N	1.98	0.96
2:B:453:TYR:CE2	2:B:510:HIS:HA	1.98	0.96
2:G:712:THR:HB	2:G:713:PRO:HD3	1.41	0.96
2:H:120:ALA:HB2	2:I:493:ILE:HD13	1.46	0.96
1:1:10:ALA:CB	1:1:11:PRO:HD3	1.94	0.96
2:E:914:LEU:HD12	2:E:915:ARG:N	1.81	0.96
2:H:792:LEU:N	2:H:793:PRO:CD	2.20	0.96
2:K:379:ASN:HD22	2:K:493:ILE:HA	1.27	0.96
2:D:488:ASP:OD1	2:D:489:THR:N	1.97	0.96
2:E:174:ASP:C	2:E:175:LYS:HD3	1.91	0.96
2:G:718:ILE:HG23	2:G:738:TRP:CG	2.00	0.96
2:J:197:LYS:HB2	2:J:197:LYS:NZ	1.78	0.96
2:J:306:ARG:HB3	2:J:310:ILE:HG22	1.45	0.96
2:K:204:LYS:HG2	2:K:205:ASP:H	1.28	0.96
2:E:371:ASP:HB3	2:E:374:VAL:HG12	1.48	0.96
2:E:915:ARG:HG2	2:E:915:ARG:NH2	1.68	0.96
2:F:103:ILE:HA	2:F:586:ILE:HD13	1.45	0.96
7:T:59:ALA:HB2	7:T:199:VAL:HG11	1.47	0.95
2:E:301:ASN:OD1	2:E:570:LEU:HD13	1.66	0.95
2:J:181:PRO:CG	2:J:186:THR:HA	1.95	0.95
2:C:255:GLU:HG2	2:C:256:PRO:HD3	0.96	0.95
2:E:248:ALA:HA	2:E:257:LYS:HB3	1.45	0.95
2:F:693:LYS:HB2	2:F:879:GLU:HG3	1.48	0.95
2:G:51:ALA:HB1	2:G:52:PRO:HD2	1.48	0.95
3:M:132:ILE:HD13	3:M:166:LEU:HD12	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:170:GLN:N	4:N:171:PRO:CD	2.30	0.95
2:C:916:THR:OG1	2:C:917:PRO:HD2	1.64	0.95
3:M:408:HIS:CE1	3:M:457:VAL:CG1	2.49	0.95
2:D:107:LEU:HB2	2:D:531:PHE:CE1	2.01	0.95
2:A:655:ARG:HH12	2:A:883:MET:HG3	1.31	0.95
2:C:616:PHE:H	2:C:616:PHE:HD1	1.01	0.95
2:D:260:LEU:H	2:D:260:LEU:CD1	1.78	0.95
2:G:791:THR:O	2:G:795:GLN:NE2	2.00	0.95
2:J:400:ASP:HB2	2:J:402:TYR:CE1	2.02	0.95
2:B:169:GLN:CB	2:B:170:PRO:HD3	1.96	0.95
2:D:13:MET:HE1	2:E:914:LEU:CB	1.96	0.95
2:G:146:GLN:HE22	2:H:814:ALA:HB3	1.30	0.95
2:G:447:TYR:CD2	2:H:386:LEU:HD11	2.01	0.95
2:A:904:PRO:HD2	2:A:908:VAL:HG13	1.45	0.95
2:B:271:ASP:OD1	2:B:271:ASP:N	2.00	0.95
2:C:212:CYS:O	2:C:212:CYS:SG	2.21	0.95
2:E:914:LEU:HD12	2:E:915:ARG:H	1.31	0.95
2:H:83:ARG:HG3	2:H:555:GLU:HB3	1.45	0.95
2:K:252:THR:HG23	2:K:253:PRO:HD2	1.46	0.95
2:K:349:MET:HE1	2:K:543:LYS:HE3	1.49	0.95
5:O:262:LEU:H	5:O:262:LEU:HD22	1.29	0.95
2:C:376:ILE:HG23	2:C:774:MET:HE2	1.46	0.95
2:L:119:THR:HG1	2:L:213:TYR:HE1	1.00	0.95
2:D:307:ASP:HB2	2:D:519:ARG:HH12	1.29	0.94
2:E:904:PRO:HD2	2:E:908:VAL:HG23	1.47	0.94
2:J:172:TYR:HB2	2:J:242:VAL:HG11	1.45	0.94
3:M:120:ASP:OD1	3:M:465:THR:HG23	1.67	0.94
3:M:422:LEU:CD2	3:M:444:ARG:NH2	2.29	0.94
2:C:454:LEU:CB	2:C:455:PRO:HD2	1.78	0.94
2:D:811:GLU:HA	2:E:429:ASN:HD21	1.28	0.94
2:H:649:ARG:HD2	2:H:896:PHE:CE1	2.01	0.94
2:A:210:LEU:HD23	2:A:211:PRO:CD	1.96	0.94
2:E:47:ASN:HB3	2:E:48:PRO:CD	1.82	0.94
2:E:447:TYR:HA	2:E:451:ALA:HB3	1.48	0.94
2:E:497:TRP:CE2	2:E:776:ARG:HD2	2.03	0.94
2:F:188:TRP:CB	2:F:394:GLY:HA2	1.97	0.94
2:G:252:THR:H	2:G:253:PRO:HD3	1.24	0.94
2:G:450:VAL:HG12	2:G:487:LEU:HD13	1.49	0.94
2:I:249:LEU:HD23	2:I:250:PRO:HD2	1.49	0.94
3:M:408:HIS:HE1	3:M:457:VAL:HG11	1.19	0.94
2:A:704:TRP:HA	2:A:704:TRP:CE3	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:TYR:CE2	2:B:216:TYR:HB2	2.01	0.94
2:B:249:LEU:HB3	2:B:250:PRO:HD3	1.48	0.94
2:D:809:MET:SD	2:F:187:GLN:HG2	2.07	0.94
2:F:464:ASN:O	2:F:465:ILE:HD13	1.67	0.94
2:I:178:GLN:HB3	2:I:181:PRO:CG	1.97	0.94
2:J:121:TYR:N	2:J:121:TYR:HD1	1.61	0.94
4:N:175:LEU:HG	4:N:176:MET:HE2	1.47	0.94
2:G:140:LYS:HD3	2:I:419:ALA:H	1.32	0.94
2:H:249:LEU:HB3	2:H:250:PRO:HD2	0.95	0.94
2:H:779:VAL:HG21	2:H:821:TYR:HB2	1.49	0.94
2:H:497:TRP:CZ3	2:H:776:ARG:HG2	2.02	0.94
3:M:221:LEU:HD12	3:M:336:ASN:HB3	1.47	0.94
5:O:238:PRO:HA	5:O:241:ARG:HB2	1.50	0.94
2:C:210:LEU:HB3	2:C:211:PRO:CD	1.96	0.94
2:G:742:GLN:HE22	2:G:845:ARG:H	0.94	0.94
2:K:367:VAL:HG21	2:K:764:MET:HE1	1.46	0.94
2:L:146:GLN:HA	2:L:146:GLN:HE21	1.23	0.94
2:L:447:TYR:HA	2:L:451:ALA:HB3	1.49	0.94
4:N:187:LEU:CD1	4:N:188:GLU:N	2.29	0.94
2:B:497:TRP:HZ2	2:B:836:LYS:HE3	0.77	0.94
2:B:848:PHE:CZ	2:B:861:LEU:HB3	2.03	0.94
2:F:209:MET:CG	2:F:286:SER:HB2	1.98	0.94
2:F:257:LYS:O	2:F:257:LYS:HD2	1.67	0.94
2:G:811:GLU:OE1	2:H:429:ASN:ND2	2.01	0.94
2:H:107:LEU:HD11	2:H:566:LEU:HD21	1.49	0.94
2:H:249:LEU:CD1	2:H:252:THR:HB	1.98	0.94
2:J:309:PHE:CE1	2:J:364:ASN:HB2	2.03	0.94
2:E:658:THR:CG2	2:E:886:PRO:HB2	1.98	0.94
2:F:732:CYS:SG	2:F:733:ASN:N	2.40	0.94
2:J:180:GLU:HB3	2:J:181:PRO:CD	1.89	0.94
2:B:693:LYS:HB3	2:B:879:GLU:CD	1.91	0.94
2:E:279:ASP:OD2	2:E:464:ASN:HB3	1.67	0.94
2:E:704:TRP:N	2:E:705:PRO:HD2	1.83	0.94
2:F:180:GLU:CB	2:F:181:PRO:CD	2.05	0.94
2:F:792:LEU:H	2:F:793:PRO:HD3	1.32	0.94
2:G:784:TYR:HE1	2:G:786:GLU:HB2	1.32	0.94
2:I:215:SER:HB3	2:I:267:ILE:HD11	1.47	0.94
2:L:103:ILE:HD12	2:L:533:ILE:HD11	1.47	0.94
2:L:136:LYS:HG3	2:L:140:LYS:HG2	1.47	0.94
1:1:16:ARG:N	1:1:17:PRO:HD3	1.84	0.93
2:A:704:TRP:CE2	2:A:705:PRO:CD	2.46	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:424:GLU:N	2:D:424:GLU:OE1	2.00	0.93
2:E:655:ARG:HH12	2:E:883:MET:HG2	1.30	0.93
2:F:307:ASP:OD1	2:F:308:ASN:ND2	2.02	0.93
2:F:549:PRO:HG2	2:F:604:GLU:OE2	1.66	0.93
2:G:742:GLN:HE21	2:G:844:TRP:HE3	1.14	0.93
2:J:55:ASP:OD2	2:J:598:ASN:ND2	2.01	0.93
6:R:32:ARG:HG3	6:R:32:ARG:HH21	1.30	0.93
2:D:649:ARG:NH2	2:D:894:GLU:OE1	2.01	0.93
2:J:198:VAL:HG12	2:J:199:ALA:H	1.34	0.93
2:J:386:LEU:H	2:J:386:LEU:CD2	1.70	0.93
2:K:798:ASN:HB3	2:K:801:PHE:HB2	1.50	0.93
2:L:866:LEU:HD21	7:U:233:ASP:HB2	1.50	0.93
5:O:189:TYR:CE1	5:O:198:GLN:HG3	2.04	0.93
1:8:23:ASN:HB3	1:8:29:GLN:HB3	1.48	0.93
2:D:390:CYS:CB	2:D:433:MET:HB3	1.99	0.93
2:F:386:LEU:HD12	2:F:386:LEU:N	1.84	0.93
2:L:904:PRO:HD2	2:L:908:VAL:HG13	1.50	0.93
2:C:689:HIS:CD2	2:C:836:LYS:CE	2.51	0.93
2:H:148:PRO:HG3	2:I:813:GLN:HB2	1.50	0.93
2:I:916:THR:CB	2:I:917:PRO:CD	2.38	0.93
2:J:563:ASN:OD1	2:J:575:ARG:NE	2.01	0.93
2:D:752:GLN:HE21	2:E:39:PHE:HA	1.33	0.93
3:M:73:LYS:HZ3	3:M:89:PHE:HB3	1.32	0.93
2:B:686:TYR:CD1	2:B:687:LEU:HD12	2.01	0.93
2:C:144:ARG:HH11	2:C:144:ARG:HB3	1.32	0.93
2:H:732:CYS:SG	2:H:733:ASN:N	2.42	0.93
2:K:728:ASN:O	2:K:736:LYS:HE2	1.69	0.93
3:M:189:LEU:O	3:M:193:ARG:HD3	1.69	0.93
2:A:497:TRP:CE3	2:A:776:ARG:HG2	2.03	0.93
2:B:445:PHE:CG	2:B:445:PHE:O	2.22	0.93
2:B:629:ILE:HD11	2:B:889:LEU:CG	1.98	0.93
2:E:747:TYR:HE2	2:E:767:PHE:HB3	1.31	0.93
2:F:180:GLU:OE2	2:F:181:PRO:CD	2.15	0.93
2:H:699:ASP:OD1	2:H:873:ALA:N	2.02	0.93
2:L:316:ASN:HD21	2:L:340:ARG:HB2	1.32	0.93
2:C:299:ARG:HB3	2:C:300:PRO:HD3	0.96	0.93
2:E:188:TRP:HA	2:F:809:MET:HE1	1.48	0.93
2:E:498:SER:H	2:E:774:MET:HE1	1.33	0.93
2:I:178:GLN:CB	2:I:181:PRO:HG3	1.99	0.93
2:L:376:ILE:HD13	2:L:772:GLN:HE22	1.32	0.93
6:R:18:SER:N	6:R:19:PRO:HD3	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:415:ASP:OD1	2:D:415:ASP:N	1.99	0.93
6:S:43:ARG:HB3	6:S:44:PRO:HD2	1.50	0.93
2:B:207:THR:HG21	2:B:265:VAL:N	1.83	0.92
2:B:526:GLY:HA3	2:C:777:GLN:OE1	1.67	0.92
2:C:57:THR:H	2:C:596:ALA:HB2	1.32	0.92
2:C:516:LEU:HD21	2:C:569:SER:HB2	1.47	0.92
2:F:634:THR:HG22	2:F:882:PRO:HG3	1.50	0.92
2:J:697:MET:HE2	2:J:701:SER:HA	1.49	0.92
2:L:197:LYS:H	2:L:197:LYS:NZ	1.66	0.92
2:D:279:ASP:HA	2:D:464:ASN:HD22	1.23	0.92
2:G:148:PRO:CG	2:H:813:GLN:HG2	1.98	0.92
2:G:818:ASN:HD21	2:I:219:PRO:HB3	1.33	0.92
2:I:904:PRO:HD2	2:I:908:VAL:HG13	1.52	0.92
2:A:82:VAL:HG11	2:A:586:ILE:HD12	1.52	0.92
2:D:508:PHE:CE2	2:D:684:THR:HG23	2.04	0.92
2:H:323:VAL:HG12	2:H:332:ASN:HD22	1.34	0.92
2:H:402:TYR:HB2	2:I:247:PHE:CE1	2.04	0.92
2:J:813:GLN:HE21	2:L:148:PRO:HD3	1.34	0.92
2:J:88:VAL:HG23	2:J:549:PRO:HA	1.51	0.92
2:D:493:ILE:HD11	2:F:116:TYR:CE1	2.04	0.92
2:G:321:MET:SD	2:G:322:GLY:N	2.41	0.92
2:J:115:PRO:HA	2:J:302:TYR:CE1	2.04	0.92
3:M:250:ARG:NH1	3:M:371:SER:OG	2.02	0.92
2:I:113:PHE:HD2	2:I:303:ILE:HB	1.33	0.92
2:D:129:ALA:CB	2:D:130:PRO:CD	2.37	0.92
2:D:435:ILE:HD11	2:E:390:CYS:SG	2.09	0.92
2:E:731:GLN:N	2:E:731:GLN:OE1	2.03	0.92
2:J:208:PRO:HD2	2:J:267:ILE:HG22	1.50	0.92
3:M:221:LEU:HD21	3:M:281:ALA:HB3	1.50	0.92
2:B:148:PRO:HG2	2:B:183:VAL:HG21	1.51	0.92
2:B:344:LEU:HD21	2:B:348:LEU:HD13	1.51	0.92
2:H:402:TYR:HA	2:I:250:PRO:HD3	1.52	0.92
2:I:180:GLU:N	2:I:181:PRO:CD	2.32	0.92
2:K:410:GLN:HE21	2:L:256:PRO:HG3	1.35	0.92
2:K:433:MET:HE2	2:L:390:CYS:HB3	1.49	0.92
2:K:922:ASN:HD22	7:T:34:LEU:HD11	1.33	0.92
5:O:219:MET:SD	5:O:219:MET:N	2.43	0.92
6:Q:18:SER:N	6:Q:19:PRO:HD2	1.81	0.92
2:B:259:VAL:HG13	2:B:259:VAL:O	1.68	0.92
2:F:152:THR:HA	2:F:196:GLN:HE22	1.32	0.92
2:G:140:LYS:CB	2:I:418:TYR:HA	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:20:ALA:HB2	2:H:47:ASN:HB3	1.49	0.92
2:J:129:ALA:HB3	2:J:212:CYS:HB3	1.52	0.92
2:J:813:GLN:NE2	2:L:147:ALA:HA	1.82	0.92
3:M:133:ASN:HD22	3:M:490:TYR:HE2	1.02	0.92
3:M:188:TYR:O	3:M:193:ARG:HG3	1.70	0.92
6:P:16:VAL:HG13	6:Q:31:VAL:HG22	1.52	0.92
2:D:144:ARG:HD2	2:D:144:ARG:C	1.94	0.92
2:G:810:ARG:O	2:G:810:ARG:HD2	1.70	0.92
3:M:73:LYS:CE	3:M:81:ASN:CG	2.43	0.92
3:M:124:ILE:CG1	3:M:460:LEU:CD2	2.48	0.92
1:7:12:ARG:HB3	2:G:619:TYR:CD1	2.03	0.91
2:C:457:SER:C	2:C:459:LYS:H	1.76	0.91
2:F:135:TRP:NE1	2:F:287:SER:HA	1.85	0.91
2:F:277:LYS:HG2	2:F:278:PRO:HD2	1.50	0.91
3:M:132:ILE:HG23	3:M:139:ASN:HB2	1.49	0.91
2:A:56:VAL:O	2:A:56:VAL:HG13	1.70	0.91
2:A:121:TYR:CE2	2:A:216:TYR:HB2	2.05	0.91
2:A:221:ASN:N	2:B:788:GLN:HE22	1.67	0.91
2:D:121:TYR:HE2	2:D:216:TYR:HB2	1.30	0.91
2:D:770:ASN:ND2	2:D:840:ASP:O	2.03	0.91
2:E:499:PRO:HG2	2:E:502:MET:HE2	1.53	0.91
2:F:792:LEU:H	2:F:793:PRO:CD	1.83	0.91
2:H:275:VAL:HG11	2:H:807:PRO:HG2	1.51	0.91
2:I:244:LEU:HG	2:I:261:TYR:HD1	1.35	0.91
1:1:10:ALA:HB1	1:1:11:PRO:HD3	1.50	0.91
2:F:506:ASN:OD1	2:F:509:ASN:ND2	2.03	0.91
2:F:916:THR:HB	2:F:917:PRO:HD3	1.50	0.91
2:G:273:HIS:O	2:G:273:HIS:CG	2.22	0.91
2:G:731:GLN:OE1	2:G:731:GLN:N	2.03	0.91
2:I:341:ASN:ND2	2:I:344:LEU:HB3	1.86	0.91
2:J:160:ILE:HD11	2:J:199:ALA:HB1	1.51	0.91
2:J:784:TYR:CE1	2:J:829:VAL:HG12	2.03	0.91
2:J:811:GLU:OE2	2:L:183:VAL:N	2.03	0.91
2:K:919:SER:OG	7:T:28:SER:O	1.86	0.91
2:B:552:TYR:CD2	2:B:909:ILE:HD11	2.05	0.91
2:G:356:ARG:HH11	2:G:356:ARG:HG2	1.33	0.91
2:G:386:LEU:HD12	2:G:386:LEU:N	1.85	0.91
2:G:389:TYR:CZ	2:H:393:LEU:HD11	2.05	0.91
2:G:810:ARG:NH1	2:H:429:ASN:OD1	2.03	0.91
6:Q:49:ASN:OD1	6:Q:50:SER:N	2.03	0.91
2:G:249:LEU:CD2	2:G:250:PRO:HD3	1.94	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:610:ASP:OD1	7:U:165:ARG:NH2	2.03	0.91
2:I:173:ALA:HB1	2:I:221:ASN:HD21	1.30	0.91
2:J:810:ARG:NH2	2:K:429:ASN:OD1	2.03	0.91
2:K:390:CYS:N	2:K:433:MET:O	2.02	0.91
2:A:916:THR:OG1	2:A:917:PRO:HD3	1.69	0.91
2:C:370:TYR:H	2:C:370:TYR:HD1	0.99	0.91
2:C:454:LEU:CB	2:C:455:PRO:HD3	1.84	0.91
2:F:709:ARG:HG3	2:F:709:ARG:HH11	1.33	0.91
2:G:127:LYS:NZ	2:H:436:ASN:OD1	2.04	0.91
2:K:132:PRO:HA	2:K:143:VAL:HG23	1.49	0.91
2:A:663:SER:OG	2:A:669:ASP:OD2	1.87	0.91
2:C:144:ARG:HH11	2:C:144:ARG:CB	1.82	0.91
2:D:390:CYS:HB2	2:F:435:ILE:HD11	1.52	0.91
2:G:467:LEU:HD11	2:G:479:GLY:HA3	1.51	0.91
2:I:588:LEU:HD23	2:I:589:TYR:N	1.86	0.91
2:I:874:LEU:HD12	2:I:875:ASP:H	1.34	0.91
2:K:660:GLU:HG2	2:K:674:TYR:CE2	2.05	0.91
2:L:176:THR:CG2	2:L:201:ARG:HH11	1.83	0.91
3:M:374:VAL:CG2	3:M:405:LEU:HD21	1.99	0.91
5:O:99:ALA:HA	5:O:102:ILE:HG22	1.51	0.91
7:T:107:GLN:NE2	7:T:109:ALA:HB2	1.86	0.91
2:B:56:VAL:HG23	2:B:57:THR:HG23	1.53	0.91
2:B:555:GLU:OE2	3:M:392:THR:CG2	2.18	0.91
2:C:549:PRO:HD2	2:C:604:GLU:HG3	1.51	0.91
2:E:655:ARG:NH1	2:E:883:MET:HG2	1.86	0.91
2:J:895:VAL:HG11	2:J:917:PRO:CA	2.00	0.91
2:L:200:GLY:C	2:L:201:ARG:HG3	1.96	0.91
2:L:308:ASN:HD21	2:L:346:TYR:HD2	0.94	0.91
2:L:316:ASN:HA	2:L:336:ASP:OD2	1.69	0.91
3:M:407:VAL:HG12	3:M:456:ASN:OD1	0.74	0.91
1:8:16:ARG:HG3	1:8:17:PRO:HD3	1.50	0.91
2:D:187:GLN:HA	2:D:187:GLN:HE21	1.32	0.91
2:E:402:TYR:CB	2:F:250:PRO:HA	2.01	0.91
2:G:493:ILE:HG12	2:I:116:TYR:CD2	2.06	0.91
2:H:747:TYR:OH	2:H:768:PHE:N	2.04	0.91
2:K:49:THR:HG23	2:L:857:ALA:H	1.33	0.91
2:L:371:ASP:HB3	2:L:374:VAL:HG22	1.52	0.91
3:M:67:VAL:HG11	3:M:381:MET:HE1	1.52	0.91
1:8:12:ARG:HH12	2:A:621:CYS:HB2	0.80	0.91
2:B:154:ILE:HG21	2:B:160:ILE:HD13	1.51	0.91
2:D:107:LEU:HD22	2:D:109:ARG:HG2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:329:SER:HA	2:G:90:ASP:H	1.34	0.91
2:F:386:LEU:CB	2:F:387:PRO:CD	2.49	0.91
2:I:88:VAL:HG23	2:I:549:PRO:HA	1.53	0.91
2:K:20:ALA:HA	2:K:23:TYR:CE1	2.06	0.91
2:A:815:TYR:CG	2:A:816:PRO:HD2	2.06	0.90
2:B:662:PRO:HG3	2:B:681:LEU:HD23	1.50	0.90
2:C:178:GLN:N	2:C:178:GLN:HE21	1.68	0.90
2:E:379:ASN:ND2	2:E:493:ILE:HA	1.85	0.90
2:F:671:TYR:O	6:Q:32:ARG:NH2	2.04	0.90
2:G:323:VAL:HG22	2:G:324:LEU:H	1.36	0.90
2:I:135:TRP:CE3	2:I:135:TRP:HA	2.02	0.90
2:I:916:THR:HG23	2:I:917:PRO:HD2	1.48	0.90
2:L:136:LYS:CD	2:L:140:LYS:CE	2.47	0.90
3:M:197:VAL:HG12	3:M:201:ASP:HB2	1.51	0.90
2:C:100:TYR:H	2:C:100:TYR:HD1	1.08	0.90
2:E:316:ASN:ND2	2:E:340:ARG:O	2.04	0.90
2:K:254:ASN:O	2:K:255:GLU:HG3	1.70	0.90
2:A:129:ALA:CB	2:A:130:PRO:HD3	1.98	0.90
2:B:227:ALA:HB1	2:B:240:SER:CB	2.01	0.90
2:D:65:THR:HG21	2:E:711:LEU:CB	2.01	0.90
2:D:177:TYR:CE1	2:E:813:GLN:HB3	2.06	0.90
2:G:290:LEU:HB3	2:G:293:GLN:HE21	1.33	0.90
2:H:250:PRO:HD2	2:H:252:THR:H	1.37	0.90
2:H:756:VAL:HG23	2:H:768:PHE:HE2	1.34	0.90
2:I:117:SER:HA	2:I:300:PRO:HG3	1.52	0.90
2:C:358:ARG:NH1	2:C:358:ARG:HG2	1.85	0.90
2:C:800:GLY:HA3	2:C:812:GLY:CA	2.02	0.90
2:E:57:THR:HG21	2:F:850:SER:HB2	1.54	0.90
2:F:107:LEU:HD12	2:F:581:VAL:HG22	1.53	0.90
2:H:508:PHE:HE2	2:H:684:THR:HG23	1.36	0.90
2:J:155:ASN:H	2:J:159:GLY:HA2	1.36	0.90
2:K:784:TYR:CD2	2:K:829:VAL:HG13	2.05	0.90
2:L:136:LYS:HD3	2:L:140:LYS:HE2	0.92	0.90
2:B:229:LEU:HA	2:B:240:SER:HA	1.54	0.90
2:D:13:MET:HE2	2:E:914:LEU:HD23	1.52	0.90
2:G:175:LYS:HE3	2:G:175:LYS:HA	1.51	0.90
2:G:344:LEU:O	2:G:344:LEU:HD23	1.71	0.90
2:J:805:MET:HE2	2:J:805:MET:HA	1.53	0.90
5:O:151:LEU:HD22	5:O:189:TYR:HE2	1.36	0.90
2:A:562:VAL:HG11	2:A:579:ALA:HB3	1.53	0.90
2:A:878:PHE:HD2	2:A:889:LEU:HD11	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:276:TYR:O	2:F:276:TYR:CG	2.24	0.90
2:F:815:TYR:CD2	2:F:816:PRO:CD	2.54	0.90
2:G:111:PRO:HD3	2:G:527:ARG:HH22	1.35	0.90
2:G:249:LEU:CD1	2:G:250:PRO:O	2.18	0.90
3:M:189:LEU:CA	3:M:193:ARG:CD	2.48	0.90
2:G:178:GLN:HB2	2:H:796:HIS:NE2	1.85	0.90
2:G:349:MET:CE	2:G:619:TYR:HB2	2.02	0.90
2:I:187:GLN:O	2:I:189:ASN:N	2.05	0.90
2:I:406:LYS:HG2	2:I:406:LYS:O	1.71	0.90
2:I:407:ALA:HB3	2:I:414:ALA:N	1.85	0.90
2:L:52:PRO:HB2	2:L:56:VAL:HG11	1.52	0.90
2:B:375:ARG:HG3	2:B:375:ARG:NH1	1.68	0.90
2:D:310:ILE:HD11	2:D:343:GLU:HB3	1.51	0.90
2:E:174:ASP:O	2:E:175:LYS:HD3	1.72	0.90
2:G:798:ASN:HD21	2:I:124:LEU:HD12	1.34	0.90
2:K:9:GLN:HE22	7:U:16:GLN:CA	1.84	0.90
2:K:688:ASN:ND2	2:K:842:THR:O	2.05	0.90
2:F:178:GLN:HB3	2:F:179:PRO:HD2	1.48	0.90
2:F:377:ILE:HG21	2:F:450:VAL:HG21	1.52	0.90
2:G:189:ASN:ND2	2:G:393:LEU:HD21	1.80	0.90
2:G:360:PHE:O	2:G:360:PHE:CD1	2.25	0.90
2:H:317:SER:OG	2:H:664:LEU:O	1.89	0.90
2:I:810:ARG:NH1	2:I:810:ARG:HG3	1.85	0.90
5:O:143:THR:O	5:O:147:SER:OG	1.87	0.90
2:C:209:MET:HA	2:C:209:MET:CE	1.99	0.90
2:D:24:LEU:HD12	2:D:28:LEU:HD23	1.52	0.90
2:F:81:LYS:HE2	2:F:555:GLU:OE2	1.71	0.90
2:G:704:TRP:O	2:G:704:TRP:CG	2.24	0.90
2:H:125:ALA:HB2	2:I:801:PHE:CE2	2.06	0.90
2:H:182:GLN:HB2	2:H:184:GLY:N	1.87	0.90
2:I:196:GLN:NE2	2:I:256:PRO:O	2.05	0.90
2:A:13:MET:HA	2:A:13:MET:CE	2.02	0.89
2:H:160:ILE:O	2:H:160:ILE:HG13	1.72	0.89
2:J:688:ASN:ND2	2:J:842:THR:O	2.04	0.89
2:L:136:LYS:HG2	2:L:140:LYS:HG2	0.90	0.89
1:5:16:ARG:HH21	1:5:16:ARG:CG	1.80	0.89
2:A:207:THR:CB	2:A:208:PRO:HD2	1.96	0.89
2:A:780:ASN:ND2	2:A:783:THR:OG1	2.05	0.89
2:B:175:LYS:HA	2:B:178:GLN:HB3	1.54	0.89
2:B:608:ARG:HH22	2:B:906:ARG:HG2	1.34	0.89
2:D:201:ARG:HH11	2:D:201:ARG:CG	1.84	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:425:ILE:CD1	2:H:260:LEU:HG	2.02	0.89
2:H:720:ARG:HH12	2:H:723:ASP:HB3	1.37	0.89
2:J:135:TRP:CH2	2:J:143:VAL:HB	2.07	0.89
2:J:154:ILE:CD1	2:J:197:LYS:HB3	2.02	0.89
2:J:548:LEU:HD21	2:J:607:LEU:HD22	1.53	0.89
2:B:651:TRP:CD2	2:B:846:ILE:HD11	2.07	0.89
2:C:148:PRO:HD2	2:C:200:GLY:HA2	1.53	0.89
2:C:597:HIS:HB2	7:T:93:ARG:HH22	1.34	0.89
2:F:792:LEU:HD13	2:F:792:LEU:O	1.73	0.89
2:H:131:ASN:OD1	2:H:131:ASN:N	2.03	0.89
3:M:221:LEU:CD2	3:M:281:ALA:HB3	2.01	0.89
2:C:188:TRP:HE3	2:C:188:TRP:H	1.20	0.89
2:D:67:ARG:HG3	2:D:589:TYR:CE1	2.07	0.89
2:G:390:CYS:CB	2:I:435:ILE:HD11	2.03	0.89
3:M:136:MET:CE	3:M:372:GLN:HG3	2.01	0.89
2:A:562:VAL:HG11	2:A:579:ALA:CB	2.03	0.89
2:B:335:VAL:HB	2:B:913:TYR:HE2	1.35	0.89
2:E:71:VAL:HG22	2:J:72:ASP:HB3	1.52	0.89
2:F:157:ASP:O	2:F:158:ASN:CG	2.16	0.89
2:I:916:THR:CG2	2:I:917:PRO:CD	2.50	0.89
2:J:400:ASP:H	2:J:426:GLU:HG3	1.37	0.89
2:K:67:ARG:HB2	2:K:589:TYR:HE1	1.38	0.89
3:M:207:ASP:OD2	3:M:211:PHE:CE2	2.26	0.89
2:B:552:TYR:HE2	2:B:909:ILE:HD11	1.34	0.89
2:E:815:TYR:CB	2:E:816:PRO:CD	2.14	0.89
2:I:407:ALA:HB3	2:I:413:THR:C	1.98	0.89
2:I:914:LEU:O	2:I:914:LEU:HD23	1.72	0.89
2:L:22:GLU:N	2:L:22:GLU:OE1	2.05	0.89
1:5:19:MET:H	1:5:19:MET:CE	1.84	0.89
2:C:154:ILE:HB	2:C:159:GLY:C	1.98	0.89
2:G:189:ASN:HD21	2:G:393:LEU:HD23	1.12	0.89
2:K:20:ALA:N	2:K:47:ASN:OD1	2.05	0.89
2:K:229:LEU:HD22	2:K:240:SER:HB2	1.53	0.89
2:L:136:LYS:CD	2:L:140:LYS:CG	2.48	0.89
2:L:655:ARG:HH12	2:L:883:MET:HB2	1.38	0.89
2:A:50:VAL:HG23	2:B:858:LEU:HD22	1.54	0.89
2:C:119:THR:HG21	2:C:123:SER:HA	1.54	0.89
2:C:358:ARG:HG2	2:C:358:ARG:HH11	1.37	0.89
2:F:497:TRP:CH2	2:F:836:LYS:HG3	2.07	0.89
2:H:627:TYR:HB2	2:H:889:LEU:HB3	1.55	0.89
2:J:61:SER:OG	2:K:708:ASP:OD1	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:734:MET:HE2	2:J:739:PHE:HA	1.55	0.89
2:B:299:ARG:HG2	2:B:300:PRO:HD2	1.05	0.89
2:D:575:ARG:NH1	2:D:672:PHE:O	2.06	0.89
2:L:309:PHE:CZ	2:L:533:ILE:HB	2.07	0.89
2:A:497:TRP:HA	2:A:774:MET:CE	2.02	0.89
2:C:179:PRO:CD	2:C:201:ARG:HD2	2.01	0.89
2:D:383:GLU:OE2	2:F:511:HIS:NE2	2.05	0.89
2:D:890:TYR:HE1	2:D:892:LEU:HD11	1.38	0.89
2:G:256:PRO:CA	2:I:412:TRP:HZ3	1.85	0.89
2:I:320:ASN:HB3	2:I:557:ASN:HD22	1.38	0.89
2:B:792:LEU:N	2:B:793:PRO:CD	2.34	0.88
2:D:688:ASN:ND2	2:D:842:THR:O	2.06	0.88
2:D:788:GLN:HE21	2:F:222:GLU:N	1.69	0.88
2:G:142:LYS:HZ3	2:G:142:LYS:C	1.80	0.88
2:G:189:ASN:HD22	2:G:393:LEU:CD2	1.79	0.88
2:L:717:GLU:O	2:L:735:THR:OG1	1.91	0.88
5:O:278:VAL:HA	5:O:281:GLN:NE2	1.88	0.88
2:A:389:TYR:CE1	2:C:433:MET:HE2	2.07	0.88
2:B:367:VAL:HG11	2:B:764:MET:HE1	1.55	0.88
2:B:912:VAL:O	2:B:912:VAL:HG23	1.71	0.88
2:C:447:TYR:O	2:C:447:TYR:CG	2.25	0.88
2:E:360:PHE:HE1	2:E:362:MET:HB2	1.37	0.88
2:G:96:MET:HE3	2:G:324:LEU:HD11	1.55	0.88
2:G:869:ASN:OD1	2:I:5:SER:OG	1.91	0.88
2:H:890:TYR:HE1	2:H:892:LEU:HD21	1.36	0.88
2:I:135:TRP:CZ2	2:I:288:ALA:HA	2.07	0.88
2:J:46:ARG:HH11	2:J:46:ARG:CB	1.86	0.88
2:K:278:PRO:HD2	2:K:290:LEU:HD11	1.54	0.88
2:K:362:MET:HE1	2:L:754:PHE:HD2	1.37	0.88
2:A:109:ARG:HH22	2:A:523:LEU:HB2	1.35	0.88
2:B:497:TRP:CZ2	2:B:836:LYS:HD2	2.06	0.88
2:D:57:THR:H	2:D:596:ALA:HB2	1.36	0.88
2:G:135:TRP:HB2	2:G:287:SER:HA	1.52	0.88
2:G:460:ILE:HA	2:G:480:ARG:HH21	1.36	0.88
2:H:720:ARG:HH22	2:H:723:ASP:HA	1.36	0.88
2:J:799:SER:OG	2:J:815:TYR:N	2.07	0.88
2:L:290:LEU:HB3	2:L:293:GLN:NE2	1.87	0.88
2:B:540:PHE:CZ	2:B:899:VAL:HG23	2.08	0.88
2:C:72:ASP:OD1	2:J:73:ARG:NH2	2.06	0.88
2:E:488:ASP:OD1	2:E:489:THR:N	2.04	0.88
2:H:180:GLU:N	2:H:180:GLU:OE1	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:377:ILE:HG21	2:H:450:VAL:HG21	1.56	0.88
2:H:565:ILE:HG13	2:H:566:LEU:HD12	1.52	0.88
2:J:796:HIS:HB3	2:L:180:GLU:HB2	1.55	0.88
2:K:296:ALA:HB1	2:K:297:PRO:HD3	1.53	0.88
2:K:608:ARG:HH12	2:K:906:ARG:HA	1.37	0.88
2:A:58:THR:O	2:B:709:ARG:NH2	2.06	0.88
2:C:343:GLU:O	2:C:343:GLU:HG3	1.70	0.88
2:D:226:GLN:HA	2:D:265:VAL:HG21	1.56	0.88
2:F:747:TYR:OH	2:F:762:ASP:OD1	1.91	0.88
2:G:112:SER:OG	2:G:577:ASP:OD2	1.91	0.88
2:J:125:ALA:HB1	2:J:126:PRO:HD2	1.55	0.88
2:A:46:ARG:HH11	2:B:898:VAL:HG13	1.38	0.88
2:B:120:ALA:HB1	2:C:819:TYR:HE2	1.39	0.88
2:F:640:ILE:HD11	2:H:700:SER:HB3	1.54	0.88
2:G:156:LYS:HZ1	2:I:412:TRP:CG	1.90	0.88
2:G:784:TYR:HE2	2:G:829:VAL:HG12	1.38	0.88
2:H:242:VAL:HG22	2:H:263:GLU:HG3	1.53	0.88
2:H:249:LEU:CB	2:H:250:PRO:HD2	1.86	0.88
2:H:269:ALA:N	2:H:270:PRO:HD3	1.87	0.88
2:H:309:PHE:CE1	2:H:364:ASN:HB2	2.08	0.88
2:H:379:ASN:HD22	2:H:493:ILE:HA	1.36	0.88
2:A:702:VAL:HG12	2:E:920:ALA:HA	1.54	0.88
2:C:735:THR:O	2:C:735:THR:HG23	1.73	0.88
2:D:613:ASP:OD2	2:D:900:ARG:NE	2.05	0.88
2:E:914:LEU:HD13	7:T:106:ALA:HB3	1.53	0.88
2:J:655:ARG:HH21	2:J:883:MET:HG3	1.36	0.88
2:K:126:PRO:HG2	2:K:129:ALA:HB2	1.53	0.88
2:L:154:ILE:HG22	2:L:259:VAL:HG21	1.56	0.88
7:U:13:TYR:HB2	7:U:194:PHE:HE2	1.30	0.88
2:B:450:VAL:O	2:B:450:VAL:HG13	1.72	0.88
2:C:704:TRP:O	2:C:704:TRP:CD2	2.26	0.88
2:D:406:LYS:HG3	2:D:409:GLY:H	1.38	0.88
2:E:90:ASP:OD1	2:J:329:SER:HA	1.74	0.88
2:E:804:TYR:CG	2:E:804:TYR:O	2.27	0.88
2:K:390:CYS:CB	2:K:433:MET:HB3	2.03	0.88
2:K:443:ARG:HH12	2:K:802:VAL:HG22	1.36	0.88
2:K:890:TYR:HE1	2:K:892:LEU:HD13	1.38	0.88
2:L:384:ASP:OD2	2:L:436:ASN:ND2	2.05	0.88
2:A:277:LYS:HD2	2:A:464:ASN:HB2	1.55	0.88
2:C:741:ILE:HG23	2:C:852:PHE:CD2	2.09	0.88
2:E:138:ASN:ND2	2:E:138:ASN:O	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:741:ILE:HD12	2:E:852:PHE:CD2	2.09	0.88
2:F:309:PHE:CE1	2:F:364:ASN:HB2	2.09	0.88
2:H:152:THR:H	2:H:197:LYS:HZ3	1.20	0.88
2:H:154:ILE:HD11	2:H:256:PRO:HB3	1.56	0.88
3:M:468:LEU:CD2	3:M:469:ARG:N	2.34	0.88
2:J:509:ASN:HD21	2:J:677:SER:H	1.22	0.88
2:J:879:GLU:OE2	6:P:28:TRP:NE1	2.07	0.88
2:A:216:TYR:CZ	2:A:218:LYS:HA	2.09	0.87
2:A:731:GLN:HE21	2:C:533:ILE:HG22	1.39	0.87
2:C:457:SER:O	2:C:459:LYS:N	2.07	0.87
2:F:135:TRP:HA	2:F:135:TRP:HE3	1.36	0.87
2:J:307:ASP:OD1	2:J:308:ASN:ND2	2.07	0.87
2:J:745:SER:HB3	2:J:847:PRO:HG3	1.56	0.87
2:K:693:LYS:HG2	2:K:879:GLU:HB3	1.55	0.87
2:K:853:MET:CE	2:L:38:TYR:HB2	2.03	0.87
2:L:81:LYS:HD2	2:L:557:ASN:HD21	1.40	0.87
1:0:19:LEU:HD11	1:0:28:PHE:HB2	1.54	0.87
2:A:853:MET:CE	2:B:38:TYR:HB2	2.04	0.87
2:F:368:ASP:OD2	2:F:567:GLN:NE2	2.08	0.87
2:F:642:SER:OG	4:N:186:VAL:HG21	1.72	0.87
2:G:175:LYS:O	2:G:177:TYR:N	2.06	0.87
2:I:214:GLY:HA3	2:I:272:THR:HG21	1.55	0.87
2:I:310:ILE:CG2	2:I:681:LEU:HD13	2.05	0.87
2:J:120:ALA:HB3	2:J:121:TYR:CD1	2.10	0.87
2:K:126:PRO:HA	2:L:434:GLU:OE2	1.73	0.87
2:K:296:ALA:HB1	2:K:297:PRO:CD	2.04	0.87
2:L:197:LYS:H	2:L:197:LYS:HZ2	0.90	0.87
3:M:220:LYS:O	3:M:221:LEU:HD12	1.74	0.87
2:D:89:GLY:HA3	2:D:92:ARG:HD2	1.56	0.87
2:D:203:LEU:HD23	2:D:267:ILE:HD11	1.53	0.87
2:D:384:ASP:O	2:F:297:PRO:HG2	1.74	0.87
2:G:303:ILE:HG22	2:G:304:GLY:H	1.37	0.87
2:G:320:ASN:HB3	2:G:557:ASN:ND2	1.87	0.87
2:H:497:TRP:NE1	2:H:836:LYS:HZ2	1.73	0.87
2:H:704:TRP:CE3	2:H:704:TRP:O	2.27	0.87
2:I:693:LYS:NZ	2:I:879:GLU:OE1	2.06	0.87
2:I:916:THR:OG1	2:I:917:PRO:HD3	1.74	0.87
2:J:163:GLY:H	2:J:168:ASN:HB2	1.39	0.87
2:J:737:ASP:OD1	2:J:738:TRP:N	2.06	0.87
2:L:435:ILE:HB	2:L:437:LEU:HD22	1.54	0.87
7:T:66:ARG:NH1	7:T:69:LEU:O	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:816:PRO:HG2	2:C:203:LEU:HD21	1.56	0.87
2:F:56:VAL:HG23	2:F:57:THR:HG23	1.54	0.87
2:G:175:LYS:HE3	2:G:175:LYS:CA	2.05	0.87
2:G:799:SER:OG	2:G:813:GLN:O	1.92	0.87
2:K:142:LYS:HE2	2:K:247:PHE:CE2	2.09	0.87
2:B:738:TRP:NE1	2:B:742:GLN:OE1	2.08	0.87
2:F:178:GLN:CD	2:F:201:ARG:HB2	1.98	0.87
2:G:545:LEU:HD21	2:G:909:ILE:HD11	1.54	0.87
2:H:160:ILE:HB	2:H:197:LYS:CE	2.03	0.87
2:K:687:LEU:HD21	2:K:883:MET:HE1	1.57	0.87
1:5:16:ARG:HB2	1:5:16:ARG:NH2	1.88	0.87
2:B:88:VAL:HG23	2:B:549:PRO:HA	1.54	0.87
2:B:307:ASP:OD1	2:B:307:ASP:N	2.00	0.87
2:B:784:TYR:CG	2:B:829:VAL:HG13	2.08	0.87
2:D:781:THR:HA	2:D:787:TYR:CD2	2.10	0.87
2:F:103:ILE:HA	2:F:586:ILE:CD1	2.03	0.87
2:F:154:ILE:HG23	2:F:159:GLY:O	1.74	0.87
2:I:453:TYR:HE2	2:I:510:HIS:HA	1.39	0.87
2:C:218:LYS:HZ3	2:C:218:LYS:HB2	1.40	0.87
2:D:215:SER:HB3	2:E:816:PRO:CB	2.05	0.87
2:D:362:MET:O	2:D:362:MET:HG3	1.73	0.87
2:H:362:MET:HE1	2:I:754:PHE:HD2	1.40	0.87
2:I:621:CYS:HB3	2:I:895:VAL:O	1.75	0.87
2:J:362:MET:HA	2:K:730:ALA:HB2	1.56	0.87
2:J:388:ASN:HD22	2:J:437:LEU:HB3	1.40	0.87
2:J:670:PRO:O	6:R:37:GLY:HA3	1.74	0.87
2:J:762:ASP:O	2:J:769:ARG:NH1	2.06	0.87
2:K:212:CYS:O	2:K:212:CYS:SG	2.33	0.87
2:K:335:VAL:HG11	7:T:32:ASN:HD21	1.39	0.87
7:U:194:PHE:CE1	7:U:198:PHE:HB2	2.07	0.87
2:B:454:LEU:HD13	2:B:502:MET:HB3	1.57	0.87
2:B:817:ALA:HB1	2:B:819:TYR:CE1	2.10	0.87
2:B:890:TYR:CE2	2:B:892:LEU:HD21	2.10	0.87
2:E:242:VAL:HG11	2:E:262:ALA:O	1.74	0.87
2:F:259:VAL:O	2:F:259:VAL:HG12	1.75	0.87
2:H:655:ARG:HH21	2:H:887:THR:HG21	1.38	0.87
2:J:384:ASP:OD1	2:J:438:ALA:HB3	1.73	0.87
2:K:15:ILE:HD11	2:L:896:PHE:HD2	1.39	0.87
2:K:853:MET:HE1	2:L:38:TYR:HB2	1.54	0.87
2:K:922:ASN:ND2	7:T:34:LEU:HD11	1.89	0.87
3:M:133:ASN:ND2	3:M:490:TYR:OH	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:197:VAL:HG13	3:M:201:ASP:CG	2.00	0.87
2:B:289:ASP:HA	2:B:291:LEU:CD1	2.04	0.87
2:B:629:ILE:CD1	2:B:889:LEU:HG	2.04	0.87
2:E:138:ASN:HB2	2:E:140:LYS:HE3	1.56	0.87
2:G:388:ASN:OD1	2:G:388:ASN:N	2.05	0.87
2:H:164:THR:HG22	2:H:168:ASN:HB2	1.56	0.87
2:H:175:LYS:HB2	2:H:223:LYS:HZ1	1.40	0.87
2:J:519:ARG:NH2	2:J:567:GLN:OE1	2.07	0.87
2:K:15:ILE:HD11	2:L:896:PHE:CD2	2.10	0.87
1:1:16:ARG:HH21	1:1:18:PHE:HB3	1.40	0.86
2:A:292:THR:HG21	2:C:186:THR:HG23	1.54	0.86
2:A:647:ALA:HB1	2:A:896:PHE:HZ	1.37	0.86
2:B:58:THR:HG22	2:B:596:ALA:HA	1.55	0.86
2:B:693:LYS:HB3	2:B:879:GLU:CB	2.04	0.86
2:C:154:ILE:H	2:C:197:LYS:HG3	1.40	0.86
2:E:112:SER:O	2:E:301:ASN:ND2	2.08	0.86
2:F:791:THR:HB	2:F:793:PRO:HD2	1.57	0.86
2:G:784:TYR:HD1	2:G:786:GLU:H	1.23	0.86
2:H:15:ILE:HG23	2:I:896:PHE:HE2	1.39	0.86
2:H:669:ASP:OD2	6:P:32:ARG:NH1	2.09	0.86
2:A:493:ILE:CG2	2:C:116:TYR:CE1	2.57	0.86
2:D:210:LEU:HB3	2:D:211:PRO:HD2	0.90	0.86
2:D:707:ASN:OD1	2:F:61:SER:HA	1.75	0.86
2:E:217:ALA:HB3	2:E:226:GLN:HG3	1.57	0.86
2:G:9:GLN:HE22	2:H:914:LEU:HD11	1.37	0.86
2:A:447:TYR:CD2	2:B:386:LEU:HD23	2.08	0.86
2:B:797:ASN:HD22	2:B:797:ASN:C	1.81	0.86
2:C:32:ALA:O	2:C:36:ASP:OD1	1.93	0.86
2:E:84:PHE:CD2	2:E:588:LEU:HB2	2.10	0.86
2:F:625:MET:SD	6:Q:24:ARG:NH1	2.47	0.86
2:F:792:LEU:N	2:F:793:PRO:CD	2.35	0.86
2:F:895:VAL:HB	2:F:917:PRO:HD2	1.57	0.86
2:G:500:ASP:HA	2:G:503:ASP:OD2	1.76	0.86
2:G:748:ASN:HB2	2:G:853:MET:CE	2.04	0.86
2:I:309:PHE:CE1	2:I:364:ASN:HB2	2.10	0.86
2:L:867:TYR:OH	7:U:232:TYR:O	1.94	0.86
3:M:330:LEU:HD23	3:M:331:LEU:O	1.76	0.86
4:N:175:LEU:HG	4:N:176:MET:HE3	1.58	0.86
6:S:57:THR:O	6:S:57:THR:HG23	1.75	0.86
2:B:370:TYR:H	2:B:370:TYR:HD1	1.24	0.86
2:C:610:ASP:OD1	2:C:902:HIS:NE2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:916:THR:HG23	2:I:917:PRO:CD	2.05	0.86
2:K:290:LEU:HG	2:K:293:GLN:HG2	1.55	0.86
2:K:408:ASN:O	2:K:411:THR:HG23	1.75	0.86
5:O:147:SER:HB2	5:O:180:VAL:HG22	1.55	0.86
6:R:18:SER:H	6:R:19:PRO:CD	1.88	0.86
2:A:3:THR:N	2:A:4:PRO:HD3	1.90	0.86
2:B:299:ARG:CB	2:B:300:PRO:CD	2.39	0.86
2:E:487:LEU:HD11	2:E:499:PRO:HG3	1.55	0.86
2:F:136:LYS:O	2:F:137:ASP:OD1	1.93	0.86
2:H:405:ILE:HD11	2:H:407:ALA:HB3	1.55	0.86
2:H:895:VAL:HG13	2:H:917:PRO:HG2	1.57	0.86
2:J:516:LEU:HA	2:J:519:ARG:HH21	1.40	0.86
2:K:615:SER:HB2	2:K:899:VAL:O	1.73	0.86
2:A:218:LYS:O	2:A:218:LYS:HG3	1.75	0.86
2:A:530:PRO:HD2	2:B:833:THR:HG23	1.58	0.86
2:A:731:GLN:NE2	2:C:533:ILE:HG22	1.90	0.86
2:B:252:THR:OG1	2:B:257:LYS:HE3	1.74	0.86
2:B:323:VAL:HG22	2:B:323:VAL:O	1.73	0.86
2:B:846:ILE:O	2:B:846:ILE:CG1	2.12	0.86
2:E:402:TYR:HB2	2:F:250:PRO:HA	1.56	0.86
2:F:608:ARG:HH22	2:F:906:ARG:HA	1.41	0.86
2:G:820:PRO:HB2	2:I:121:TYR:HE1	1.40	0.86
2:J:422:GLY:HA2	2:K:142:LYS:HD2	0.89	0.86
5:O:267:THR:HA	5:O:270:ARG:HH12	1.39	0.86
6:S:25:LEU:HD12	6:S:26:PRO:HD2	0.88	0.86
2:A:796:HIS:NE2	2:C:179:PRO:HD2	1.89	0.86
2:B:252:THR:H	2:B:253:PRO:HD3	1.35	0.86
2:B:629:ILE:HG12	2:B:636:VAL:HG11	1.58	0.86
2:C:28:LEU:HG	2:C:28:LEU:O	1.74	0.86
2:C:655:ARG:NH2	2:C:883:MET:HE2	1.91	0.86
2:D:389:TYR:OH	2:F:809:MET:HA	1.74	0.86
2:H:336:ASP:OD1	2:H:337:LEU:N	2.07	0.86
2:I:420:ASP:O	2:I:422:GLY:N	2.09	0.86
2:L:197:LYS:HZ2	2:L:197:LYS:N	1.74	0.86
2:C:386:LEU:HD23	2:C:387:PRO:HD3	0.86	0.86
2:E:15:ILE:HD11	2:F:896:PHE:CD2	2.10	0.86
2:E:815:TYR:HB3	2:E:816:PRO:HD2	0.87	0.86
2:F:307:ASP:O	2:F:310:ILE:HG23	1.74	0.86
2:H:435:ILE:HD11	2:I:390:CYS:HA	1.57	0.86
2:J:437:LEU:HD13	2:K:437:LEU:HD21	1.58	0.86
7:T:70:ASN:N	7:T:217:ASP:OD2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:895:VAL:HB	2:A:917:PRO:HG2	1.58	0.86
2:D:390:CYS:N	2:D:433:MET:O	2.08	0.86
2:E:655:ARG:HH11	2:E:690:THR:HG21	1.40	0.86
2:F:399:THR:HA	2:F:426:GLU:HB3	0.92	0.86
2:G:722:VAL:HG13	2:G:723:ASP:H	1.41	0.86
2:K:246:PHE:CD1	2:K:259:VAL:HG11	2.11	0.86
3:M:221:LEU:CD2	3:M:336:ASN:HA	2.05	0.86
2:A:798:ASN:ND2	2:C:124:LEU:HB2	1.90	0.86
2:C:720:ARG:HG2	2:C:720:ARG:NH1	1.85	0.86
2:F:128:THR:HG22	2:F:128:THR:O	1.76	0.86
2:F:476:TYR:OH	2:F:480:ARG:NH1	2.08	0.86
2:G:249:LEU:HD23	2:G:257:LYS:HG3	1.58	0.86
2:I:88:VAL:CG2	2:I:549:PRO:HA	2.06	0.86
2:I:244:LEU:HG	2:I:261:TYR:CD1	2.11	0.86
2:I:725:GLU:N	2:I:725:GLU:OE1	2.07	0.86
2:J:405:ILE:C	2:J:412:TRP:HA	1.99	0.86
2:K:142:LYS:HE2	2:K:247:PHE:CZ	2.11	0.86
2:C:435:ILE:HG22	2:C:435:ILE:O	1.75	0.85
2:F:819:TYR:N	2:F:820:PRO:HD2	1.85	0.85
5:O:261:TYR:CD2	5:O:265:LEU:HD21	2.11	0.85
1:8:16:ARG:HG2	2:C:47:ASN:HD22	1.41	0.85
2:A:484:PRO:HD3	2:A:806:GLY:HA2	1.57	0.85
2:B:299:ARG:HB3	2:B:300:PRO:HD2	1.56	0.85
2:D:107:LEU:HB2	2:D:531:PHE:CZ	2.11	0.85
2:E:815:TYR:CD2	2:E:816:PRO:HD2	2.11	0.85
2:F:699:ASP:HB3	2:J:643:ARG:NH1	1.90	0.85
2:G:223:LYS:HD3	2:H:794:PHE:HE2	1.40	0.85
2:H:704:TRP:O	2:H:704:TRP:CD2	2.29	0.85
2:I:805:MET:HA	2:I:805:MET:HE3	1.58	0.85
2:K:694:VAL:HG12	2:K:716:PHE:HB2	1.58	0.85
3:M:422:LEU:HD21	3:M:444:ARG:HH21	1.38	0.85
7:U:46:GLY:O	7:U:49:ALA:N	2.09	0.85
1:1:9:LEU:HD11	1:1:17:PRO:HB3	1.56	0.85
1:5:19:MET:O	1:5:19:MET:HE2	1.76	0.85
2:A:119:THR:HG22	2:A:121:TYR:H	1.40	0.85
2:A:316:ASN:OD1	2:A:342:THR:N	2.09	0.85
2:D:650:GLY:HA3	2:D:846:ILE:O	1.75	0.85
2:E:704:TRP:O	2:E:704:TRP:CD2	2.30	0.85
2:F:269:ALA:H	2:F:270:PRO:HD2	1.40	0.85
2:G:865:MET:HE3	2:G:869:ASN:HD22	1.41	0.85
2:J:44:LYS:HB3	2:K:616:PHE:CE2	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:31:PHE:CE2	2:L:603:LEU:HD13	2.11	0.85
2:K:521:MET:HE1	2:L:494:GLY:O	1.76	0.85
2:L:704:TRP:O	2:L:704:TRP:CD2	2.29	0.85
3:M:289:GLU:HA	3:M:292:ILE:HG12	1.56	0.85
2:B:851:ASN:OD1	2:B:851:ASN:N	2.08	0.85
2:C:179:PRO:HG3	2:C:201:ARG:CD	2.06	0.85
2:D:215:SER:HB3	2:E:816:PRO:HB2	1.55	0.85
2:D:810:ARG:HE	2:E:429:ASN:HB3	1.39	0.85
2:G:135:TRP:CZ3	2:G:143:VAL:HB	2.12	0.85
2:J:224:GLY:HA3	2:K:794:PHE:HD2	1.42	0.85
2:K:878:PHE:CE2	2:K:889:LEU:HD21	2.11	0.85
2:L:694:VAL:HG22	2:L:878:PHE:HD1	1.40	0.85
2:L:704:TRP:O	2:L:704:TRP:CG	2.28	0.85
2:A:113:PHE:HD1	2:A:303:ILE:HB	1.39	0.85
2:B:39:PHE:CE2	2:C:595:MET:HE1	2.12	0.85
2:B:694:VAL:HG11	2:B:738:TRP:HZ3	1.39	0.85
2:E:453:TYR:CE2	2:E:510:HIS:HA	2.12	0.85
2:E:704:TRP:CZ3	2:E:861:LEU:HD23	2.12	0.85
2:G:903:GLN:HG2	2:G:909:ILE:HG12	1.55	0.85
2:J:254:ASN:OD1	2:J:255:GLU:CG	2.25	0.85
2:J:545:LEU:HD22	2:J:901:ILE:HD13	1.57	0.85
2:L:678:VAL:N	2:L:682:ASP:OD2	2.09	0.85
2:A:389:TYR:OH	2:C:433:MET:SD	2.32	0.85
2:B:744:LEU:HD21	2:B:751:TYR:HE1	1.39	0.85
2:B:756:VAL:HG23	2:B:768:PHE:HE2	1.39	0.85
2:C:62:GLN:HE21	2:C:594:PRO:HA	1.42	0.85
2:C:178:GLN:HE21	2:C:178:GLN:H	1.23	0.85
2:C:462:PRO:HG2	2:C:465:ILE:HG21	1.58	0.85
2:F:74:GLU:HB2	2:G:69:VAL:HG11	1.58	0.85
2:F:114:LYS:HB2	2:F:114:LYS:NZ	1.91	0.85
2:H:178:GLN:N	2:H:178:GLN:OE1	2.09	0.85
2:H:717:GLU:HB3	2:H:735:THR:HG21	1.58	0.85
2:J:81:LYS:HE3	2:J:557:ASN:ND2	1.90	0.85
2:J:254:ASN:O	2:J:255:GLU:CG	2.24	0.85
5:O:154:PHE:HB2	5:O:196:PHE:CD2	2.11	0.85
6:Q:18:SER:N	6:Q:19:PRO:CD	2.34	0.85
2:A:301:ASN:OD1	2:A:568:SER:OG	1.95	0.85
2:E:780:ASN:O	2:E:780:ASN:ND2	2.09	0.85
2:F:209:MET:HG3	2:F:286:SER:CB	2.05	0.85
2:F:309:PHE:HE2	2:F:533:ILE:HD12	1.41	0.85
2:G:252:THR:H	2:G:253:PRO:CD	1.79	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:135:TRP:O	2:K:140:LYS:HA	1.77	0.85
2:L:73:ARG:NH1	2:L:80:TYR:OH	2.10	0.85
2:B:471:LYS:HB3	2:B:476:TYR:CB	2.07	0.85
2:C:723:ASP:OD1	2:C:723:ASP:N	2.06	0.85
2:F:19:ASP:HA	2:F:48:PRO:HD3	1.56	0.85
2:I:302:TYR:CD2	2:I:517:ARG:HA	2.11	0.85
2:I:723:ASP:OD2	2:I:727:TYR:N	2.10	0.85
2:L:174:ASP:C	2:L:176:THR:H	1.83	0.85
2:L:309:PHE:HE1	2:L:364:ASN:HD22	1.21	0.85
3:M:132:ILE:CG2	3:M:139:ASN:HB2	2.07	0.85
2:B:917:PRO:HG2	2:B:917:PRO:O	1.75	0.85
2:C:106:VAL:HG22	2:C:106:VAL:O	1.74	0.85
2:D:731:GLN:OE1	2:D:731:GLN:N	2.10	0.85
2:E:390:CYS:N	2:E:433:MET:O	2.10	0.85
2:F:643:ARG:HH12	2:H:699:ASP:HB2	1.42	0.85
2:H:630:PRO:HB3	6:R:12:PHE:CE1	2.12	0.85
2:A:276:TYR:O	2:A:276:TYR:CG	2.26	0.85
2:B:15:ILE:HG12	2:C:896:PHE:HD2	1.42	0.85
2:B:895:VAL:HG21	2:B:917:PRO:HD3	1.57	0.85
2:C:587:ASN:OD1	2:C:587:ASN:N	2.10	0.85
2:D:306:ARG:HB3	2:D:310:ILE:HG22	1.59	0.85
2:E:188:TRP:CA	2:F:809:MET:HE1	2.07	0.85
2:E:222:GLU:HA	2:F:788:GLN:NE2	1.90	0.85
2:G:802:VAL:O	2:G:811:GLU:N	2.10	0.85
2:H:910:GLU:OE2	2:L:60:ARG:NH2	2.09	0.85
3:M:77:ILE:HD12	3:M:92:THR:HB	1.59	0.85
3:M:408:HIS:HE1	3:M:457:VAL:CG1	1.87	0.85
2:A:10:TRP:CZ3	2:B:866:LEU:HG	2.11	0.84
2:C:154:ILE:HG22	2:C:160:ILE:HA	1.56	0.84
2:C:390:CYS:HB2	2:C:432:ALA:HB1	1.56	0.84
2:C:488:ASP:O	2:C:491:VAL:HG12	1.77	0.84
2:F:135:TRP:HB3	2:F:142:LYS:CE	2.07	0.84
2:H:252:THR:CB	2:H:253:PRO:HD3	2.07	0.84
2:H:323:VAL:HG22	2:H:555:GLU:HG2	1.57	0.84
2:K:9:GLN:NE2	7:U:16:GLN:HG3	1.92	0.84
5:O:199:THR:HG23	5:O:204:LEU:HD23	1.57	0.84
5:O:204:LEU:HD22	5:O:207:VAL:CG2	2.07	0.84
2:A:792:LEU:CB	2:A:793:PRO:HD2	1.86	0.84
2:C:390:CYS:HB2	2:C:433:MET:N	1.91	0.84
2:D:546:LEU:HD11	2:F:41:LEU:HD11	1.57	0.84
2:E:249:LEU:HD23	2:E:257:LYS:HG2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:710:LEU:HD21	2:E:716:PHE:HA	1.57	0.84
2:F:69:VAL:HG13	2:F:70:PRO:HD2	1.58	0.84
2:F:595:MET:HG3	2:F:600:ALA:HB2	1.59	0.84
2:G:188:TRP:N	2:G:191:GLU:O	2.10	0.84
2:K:269:ALA:H	2:K:270:PRO:HD3	1.41	0.84
2:L:174:ASP:O	2:L:176:THR:N	2.09	0.84
6:P:21:LEU:HG	6:Q:21:LEU:HD22	1.60	0.84
7:T:101:MET:HE1	7:T:168:PHE:HB3	1.58	0.84
2:A:128:THR:HG21	2:C:393:LEU:HD22	1.59	0.84
2:D:121:TYR:CD2	2:D:216:TYR:HB2	2.11	0.84
2:E:327:GLN:HB2	2:E:551:SER:O	1.77	0.84
2:E:729:VAL:CG1	2:E:734:MET:HG2	2.07	0.84
2:F:704:TRP:CD2	2:F:704:TRP:O	2.30	0.84
2:G:497:TRP:CE3	2:G:776:ARG:HG2	2.13	0.84
2:K:303:ILE:HG22	2:K:303:ILE:O	1.74	0.84
2:K:810:ARG:HD3	2:L:432:ALA:CB	2.07	0.84
2:K:924:THR:HG23	7:T:45:ASN:ND2	1.92	0.84
3:M:89:PHE:HE2	3:M:91:THR:CG2	1.90	0.84
2:B:35:THR:CG2	2:B:39:PHE:HB3	2.08	0.84
2:H:331:LEU:HD21	2:L:597:HIS:CE1	2.11	0.84
2:A:563:ASN:ND2	2:A:573:ASP:OD1	2.10	0.84
2:A:784:TYR:CE1	2:A:829:VAL:HG12	2.12	0.84
2:B:552:TYR:CE2	2:B:909:ILE:CD1	2.61	0.84
2:C:316:ASN:OD1	2:C:316:ASN:N	2.09	0.84
2:C:383:GLU:N	2:C:383:GLU:OE2	2.10	0.84
2:C:446:LEU:HD23	2:C:488:ASP:HA	1.57	0.84
2:D:429:ASN:OD1	2:F:810:ARG:NH1	2.10	0.84
2:G:310:ILE:O	2:G:310:ILE:HG23	1.75	0.84
2:G:850:SER:HB3	2:G:861:LEU:HD11	1.58	0.84
2:H:878:PHE:CE2	2:H:889:LEU:HD21	2.12	0.84
2:J:263:GLU:OE1	2:K:815:TYR:OH	1.95	0.84
2:J:543:LYS:HG2	2:J:544:ASN:OD1	1.78	0.84
2:B:529:VAL:HB	2:C:777:GLN:NE2	1.92	0.84
2:C:388:ASN:HB3	2:C:437:LEU:HD12	1.57	0.84
2:E:655:ARG:NH2	2:E:883:MET:HB2	1.91	0.84
2:F:88:VAL:HG13	2:F:549:PRO:HA	1.58	0.84
2:K:10:TRP:CZ2	2:L:647:ALA:HB2	2.13	0.84
2:K:75:ASP:OD1	2:K:76:THR:N	2.10	0.84
3:M:177:ILE:CD1	3:M:234:PRO:HB3	2.08	0.84
2:C:229:LEU:HD12	2:C:230:ILE:HG12	1.58	0.84
2:C:714:ASN:OD1	2:C:714:ASN:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:147:ALA:HB1	2:E:199:ALA:O	1.78	0.84
2:G:730:ALA:O	2:G:732:CYS:N	2.11	0.84
2:H:371:ASP:HB3	2:H:374:VAL:HG23	1.59	0.84
2:H:575:ARG:NH2	2:H:672:PHE:O	2.10	0.84
2:H:895:VAL:HG13	2:H:917:PRO:CD	2.07	0.84
2:J:815:TYR:OH	2:L:263:GLU:OE1	1.95	0.84
2:K:694:VAL:CG1	2:K:716:PHE:HB2	2.08	0.84
2:A:389:TYR:CZ	2:C:433:MET:CE	2.61	0.84
2:C:64:LEU:HD11	2:C:594:PRO:HG3	1.59	0.84
2:C:792:LEU:O	2:C:792:LEU:HD23	1.78	0.84
2:D:216:TYR:O	2:D:216:TYR:CG	2.27	0.84
2:E:800:GLY:CA	2:E:812:GLY:HA3	2.07	0.84
2:E:903:GLN:HG3	2:E:909:ILE:HD13	1.58	0.84
2:F:203:LEU:HD21	2:F:267:ILE:HD11	1.59	0.84
2:F:914:LEU:HD23	2:F:915:ARG:N	1.93	0.84
2:I:161:GLN:H	2:I:170:PRO:HD3	1.41	0.84
2:K:242:VAL:O	2:K:242:VAL:HG23	1.75	0.84
2:B:14:HIS:CE1	2:C:900:ARG:NH2	2.46	0.84
2:B:610:ASP:HA	2:B:902:HIS:HE1	1.42	0.84
2:D:453:TYR:HH	2:D:511:HIS:HD1	1.22	0.84
2:E:402:TYR:HA	2:F:249:LEU:O	1.78	0.84
2:F:20:ALA:HA	2:F:23:TYR:CE2	2.13	0.84
2:G:135:TRP:CH2	2:G:143:VAL:HB	2.13	0.84
2:G:462:PRO:HG2	2:G:465:ILE:HD11	1.57	0.84
2:H:249:LEU:HD12	2:H:252:THR:CB	2.01	0.84
2:I:114:LYS:HZ3	2:I:298:ASN:HB2	1.41	0.84
2:I:152:THR:OG1	2:I:153:ASN:OD1	1.95	0.84
2:I:377:ILE:HD11	2:I:446:LEU:HD21	1.59	0.84
2:J:154:ILE:HD11	2:J:197:LYS:HB3	1.56	0.84
2:J:459:LYS:O	2:J:480:ARG:NH1	2.11	0.84
7:U:222:TYR:OH	7:U:227:GLU:HG3	1.77	0.84
1:5:25:ILE:H	1:5:25:ILE:CD1	1.85	0.84
2:A:708:ASP:HA	2:A:713:PRO:CB	2.08	0.84
2:B:360:PHE:CD1	2:B:360:PHE:O	2.30	0.84
2:B:851:ASN:O	2:B:853:MET:N	2.10	0.84
2:C:104:ARG:HH11	2:C:104:ARG:CG	1.91	0.84
2:C:597:HIS:CA	7:T:93:ARG:HH22	1.90	0.84
2:D:65:THR:HG23	2:E:711:LEU:HD13	1.60	0.84
2:F:674:TYR:CZ	2:F:676:GLY:HA3	2.13	0.84
2:G:691:PHE:HB3	2:G:718:ILE:HD13	1.58	0.84
2:H:152:THR:N	2:H:197:LYS:HZ3	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:777:GLN:NE2	2:L:525:ASN:O	2.11	0.84
2:K:694:VAL:HG23	2:K:878:PHE:CE1	2.11	0.84
3:M:374:VAL:HG23	3:M:405:LEU:HD21	1.53	0.84
1:5:25:ILE:HD13	1:5:25:ILE:N	1.92	0.83
2:A:487:LEU:HD21	2:A:499:PRO:HG3	1.59	0.83
2:C:819:TYR:CD1	2:C:820:PRO:CD	2.57	0.83
2:E:433:MET:HE1	2:F:433:MET:SD	2.17	0.83
2:E:435:ILE:HD13	2:F:390:CYS:HA	1.60	0.83
2:F:269:ALA:N	2:F:270:PRO:HD2	1.92	0.83
2:G:15:ILE:HD11	2:H:896:PHE:HD2	1.43	0.83
2:G:379:ASN:HD22	2:G:493:ILE:HA	1.43	0.83
2:G:654:THR:HG21	2:G:685:PHE:CD2	2.13	0.83
2:H:109:ARG:HH11	2:H:529:VAL:HG11	1.40	0.83
2:H:462:PRO:HB2	2:H:465:ILE:HG22	1.57	0.83
2:H:496:ARG:O	2:H:774:MET:HB2	1.78	0.83
2:I:154:ILE:HD13	2:I:160:ILE:HA	1.59	0.83
2:I:575:ARG:NH2	2:I:672:PHE:O	2.10	0.83
2:J:447:TYR:O	2:J:447:TYR:CD1	2.30	0.83
2:K:895:VAL:HG12	2:K:917:PRO:CG	2.05	0.83
2:K:914:LEU:HD23	2:K:915:ARG:N	1.93	0.83
2:C:490:TYR:HA	2:C:819:TYR:CZ	2.13	0.83
2:D:679:PRO:HG3	2:D:686:TYR:CE2	2.13	0.83
2:E:484:PRO:O	2:E:488:ASP:HB2	1.77	0.83
2:F:119:THR:HG23	2:F:119:THR:O	1.76	0.83
2:F:648:PHE:O	2:F:648:PHE:CG	2.28	0.83
2:H:49:THR:HG23	2:I:857:ALA:H	1.41	0.83
2:I:249:LEU:HD23	2:I:250:PRO:CD	2.08	0.83
2:J:313:MET:HE2	2:J:556:TRP:CD1	2.12	0.83
2:J:612:ASN:ND2	2:L:25:SER:OG	2.09	0.83
2:K:860:ASP:OD1	2:K:861:LEU:N	2.11	0.83
1:4:19:MET:CE	2:B:34:ALA:HB1	2.02	0.83
2:B:467:LEU:HB3	2:B:468:PRO:CD	2.08	0.83
2:D:697:MET:HE3	2:D:700:SER:HA	1.61	0.83
2:F:88:VAL:CG1	2:F:549:PRO:HA	2.08	0.83
2:F:386:LEU:H	2:F:386:LEU:CD1	1.85	0.83
2:F:471:LYS:HA	2:F:476:TYR:CD2	2.13	0.83
2:F:624:ASN:OD1	2:F:892:LEU:HD21	1.77	0.83
2:J:435:ILE:HD11	2:K:390:CYS:SG	2.18	0.83
2:B:480:ARG:HH21	2:B:480:ARG:CB	1.91	0.83
2:D:13:MET:HE1	2:E:914:LEU:CG	2.07	0.83
2:D:307:ASP:OD2	2:D:356:ARG:NH2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:107:LEU:HD13	2:F:581:VAL:CG2	2.05	0.83
2:F:204:LYS:HG3	2:F:263:GLU:O	1.78	0.83
2:G:452:LEU:HD23	2:G:452:LEU:O	1.78	0.83
2:H:84:PHE:CD2	2:H:588:LEU:HB2	2.12	0.83
2:H:777:GLN:OE1	2:H:833:THR:HG22	1.78	0.83
2:J:690:THR:HB	2:J:881:ASP:OD1	1.77	0.83
2:K:299:ARG:CB	2:K:300:PRO:CD	2.55	0.83
2:K:569:SER:O	2:K:570:LEU:HD23	1.79	0.83
2:K:899:VAL:HG22	2:K:913:TYR:CD1	2.13	0.83
2:L:704:TRP:N	2:L:705:PRO:HD2	1.93	0.83
2:L:711:LEU:HD22	2:L:727:TYR:CE1	2.13	0.83
1:2:16:ARG:HB3	1:2:17:PRO:CD	2.08	0.83
1:8:23:ASN:HB3	1:8:29:GLN:CB	2.07	0.83
2:A:655:ARG:HG3	2:A:691:PHE:HE1	1.44	0.83
2:B:497:TRP:CH2	2:B:836:LYS:CD	2.61	0.83
2:C:255:GLU:CG	2:C:256:PRO:HD2	1.97	0.83
2:C:382:VAL:O	2:C:382:VAL:HG12	1.77	0.83
2:D:252:THR:N	2:D:253:PRO:CD	2.37	0.83
2:E:102:ASP:OD1	2:E:532:HIS:NE2	2.11	0.83
2:E:573:ASP:HB3	2:E:576:VAL:HG12	1.59	0.83
2:G:375:ARG:HG2	2:G:375:ARG:NH1	1.91	0.83
2:G:804:TYR:HE2	2:G:805:MET:HE2	1.43	0.83
7:T:59:ALA:CB	7:T:199:VAL:HG11	2.08	0.83
2:A:216:TYR:HA	2:B:817:ALA:HB3	1.58	0.83
2:B:106:VAL:HB	2:B:582:ARG:HH11	1.44	0.83
2:C:610:ASP:CG	2:C:902:HIS:HE2	1.86	0.83
2:D:462:PRO:HB2	2:D:465:ILE:HB	1.60	0.83
2:E:160:ILE:HD11	2:E:199:ALA:HB2	1.61	0.83
2:F:104:ARG:HB2	2:F:104:ARG:NH1	1.93	0.83
2:F:516:LEU:H	2:F:519:ARG:HE	1.26	0.83
2:F:887:THR:HG22	2:F:888:LEU:H	1.43	0.83
2:H:792:LEU:O	2:H:792:LEU:HD12	1.78	0.83
2:H:818:ASN:HD22	2:H:818:ASN:C	1.87	0.83
2:J:211:PRO:O	2:J:211:PRO:HG2	1.78	0.83
2:J:417:ASN:C	2:K:139:ASN:HD21	1.85	0.83
2:J:437:LEU:HD22	2:L:437:LEU:HD13	1.57	0.83
2:B:467:LEU:HD21	2:B:479:GLY:HA3	1.60	0.83
2:B:540:PHE:CZ	2:B:899:VAL:CG2	2.62	0.83
2:D:71:VAL:HG21	2:D:85:THR:HG23	1.60	0.83
2:D:208:PRO:HD3	2:D:284:THR:CG2	2.07	0.83
2:D:401:THR:HA	2:E:248:ALA:O	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:617:ASN:OD1	2:D:618:ASP:N	2.12	0.83
2:D:686:TYR:CD1	2:D:687:LEU:HG	2.14	0.83
2:F:654:THR:HG22	2:F:655:ARG:H	1.44	0.83
2:G:363:TRP:O	2:G:365:GLN:N	2.11	0.83
2:G:492:ASN:OD1	2:G:776:ARG:NH1	2.11	0.83
2:H:332:ASN:OD1	2:H:334:VAL:N	2.12	0.83
2:H:508:PHE:CE2	2:H:684:THR:HG23	2.13	0.83
2:H:670:PRO:HB2	6:P:45:VAL:HG11	1.61	0.83
2:K:865:MET:HE3	5:O:298:THR:HA	1.61	0.83
2:L:878:PHE:CD2	2:L:889:LEU:HD21	2.13	0.83
3:M:226:VAL:HG13	3:M:440:GLN:NE2	1.94	0.83
5:O:222:VAL:C	5:O:260:SER:HB3	2.04	0.83
7:T:107:GLN:HE21	7:T:109:ALA:CB	1.91	0.83
2:D:504:ASN:ND2	2:D:883:MET:SD	2.52	0.83
2:E:20:ALA:HA	2:E:23:TYR:CE1	2.13	0.83
2:E:564:MET:HE2	2:E:672:PHE:HD2	1.42	0.83
2:H:871:ALA:HB2	4:N:180:ARG:HH12	1.41	0.83
2:J:121:TYR:HD1	2:J:121:TYR:H	0.88	0.83
2:J:164:THR:HG23	2:J:168:ASN:CG	2.04	0.83
2:K:315:TYR:OH	2:K:538:LYS:N	2.12	0.83
5:O:238:PRO:O	5:O:242:LEU:N	2.12	0.83
2:D:154:ILE:HD12	2:D:197:LYS:HB3	1.60	0.83
2:D:688:ASN:OD1	2:D:844:TRP:NE1	2.12	0.83
2:E:116:TYR:HB3	2:F:493:ILE:HD11	1.61	0.83
2:F:285:ILE:HG22	2:F:285:ILE:O	1.78	0.83
2:F:562:VAL:HG21	2:F:579:ALA:O	1.79	0.83
2:F:709:ARG:HH11	2:F:709:ARG:CG	1.88	0.83
2:F:870:SER:CB	4:N:177:VAL:HG13	2.07	0.83
2:G:376:ILE:HG22	2:G:376:ILE:O	1.74	0.83
2:H:125:ALA:CB	2:H:126:PRO:HD2	2.04	0.83
2:K:6:MET:HE3	7:U:82:GLU:OE2	1.79	0.83
2:L:869:ASN:OD1	7:U:21:ALA:HB1	1.76	0.83
3:M:209:ARG:NH1	3:M:229:ASN:OD1	2.12	0.83
5:O:262:LEU:HD22	5:O:262:LEU:N	1.91	0.83
7:T:94:ASP:OD2	7:T:171:ARG:NE	2.11	0.83
2:A:9:GLN:HB2	2:A:10:TRP:CD1	2.10	0.83
2:B:215:SER:HB2	2:C:816:PRO:CB	2.08	0.83
2:B:289:ASP:H	2:B:291:LEU:HD11	1.43	0.83
2:B:320:ASN:OD1	2:B:320:ASN:N	2.12	0.83
2:C:123:SER:O	2:C:125:ALA:N	2.12	0.83
2:C:309:PHE:CE2	2:C:533:ILE:HB	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:674:TYR:OH	2:C:676:GLY:O	1.95	0.83
2:C:821:TYR:HB2	2:C:822:PRO:HD2	1.59	0.83
2:D:25:SER:H	2:E:612:ASN:HD21	1.24	0.83
2:E:792:LEU:N	2:E:793:PRO:HD3	1.93	0.83
2:F:314:TYR:HD2	2:F:320:ASN:HB2	1.43	0.83
2:F:492:ASN:ND2	2:F:497:TRP:HB3	1.94	0.83
2:G:821:TYR:O	2:G:823:LEU:HD12	1.79	0.83
2:H:276:TYR:O	2:H:276:TYR:CG	2.32	0.83
2:J:356:ARG:NH1	2:J:367:VAL:HG12	1.94	0.83
3:M:441:ILE:HG22	3:M:441:ILE:O	1.79	0.83
2:C:792:LEU:HD23	2:C:792:LEU:C	2.04	0.82
2:E:453:TYR:HE2	2:E:510:HIS:HA	1.43	0.82
2:G:140:LYS:HD3	2:I:419:ALA:N	1.94	0.82
2:H:160:ILE:CB	2:H:197:LYS:HE3	2.07	0.82
2:H:779:VAL:HG22	2:H:829:VAL:HG21	1.61	0.82
2:J:116:TYR:HD1	2:J:116:TYR:O	1.62	0.82
2:K:88:VAL:HG23	2:K:549:PRO:HA	1.57	0.82
2:K:312:LEU:N	2:K:565:ILE:HD11	1.94	0.82
2:L:74:GLU:HB3	2:L:81:LYS:HB3	1.61	0.82
2:C:180:GLU:N	2:C:180:GLU:OE1	2.12	0.82
2:F:135:TRP:HB3	2:F:142:LYS:HE3	1.59	0.82
2:I:195:ALA:HB1	2:I:197:LYS:CE	2.08	0.82
2:I:226:GLN:HB3	2:I:265:VAL:HG12	1.61	0.82
3:M:221:LEU:CD1	3:M:336:ASN:CG	2.52	0.82
2:B:636:VAL:CG2	2:B:889:LEU:HD11	2.10	0.82
2:C:445:PHE:CD1	2:C:445:PHE:C	2.56	0.82
2:F:345:SER:HB2	2:F:618:ASP:OD1	1.79	0.82
2:H:405:ILE:CD1	2:H:407:ALA:HB3	2.08	0.82
2:L:308:ASN:ND2	2:L:346:TYR:CD2	2.35	0.82
2:L:453:TYR:HH	2:L:511:HIS:HD1	1.27	0.82
2:B:209:MET:SD	2:B:291:LEU:HD23	2.20	0.82
2:C:660:GLU:HB3	2:C:674:TYR:CE2	2.14	0.82
2:D:135:TRP:CH2	2:D:291:LEU:HD13	2.14	0.82
2:D:895:VAL:HG12	2:D:917:PRO:CB	2.09	0.82
2:G:707:ASN:ND2	2:I:59:ASP:O	2.12	0.82
7:U:64:THR:OG1	7:U:197:GLU:OE1	1.95	0.82
2:A:76:THR:HG22	2:A:77:ALA:H	1.43	0.82
2:A:815:TYR:CD2	2:A:816:PRO:HD2	2.14	0.82
2:D:215:SER:O	2:D:217:ALA:N	2.11	0.82
2:J:227:ALA:HB3	2:J:265:VAL:CG1	2.10	0.82
2:J:890:TYR:CE1	2:J:892:LEU:HD13	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:508:PHE:CE2	2:K:684:THR:HB	2.13	0.82
2:L:376:ILE:HD13	2:L:772:GLN:NE2	1.94	0.82
3:M:139:ASN:OD1	3:M:166:LEU:C	2.23	0.82
7:U:211:PRO:HA	7:U:214:TYR:CE2	2.15	0.82
2:A:704:TRP:HA	2:A:704:TRP:HE3	1.40	0.82
2:E:294:GLN:NE2	2:E:807:PRO:O	2.12	0.82
2:E:613:ASP:OD2	2:E:900:ARG:NE	2.12	0.82
2:F:188:TRP:HB2	2:F:394:GLY:CA	2.05	0.82
2:F:355:ASP:OD1	2:F:356:ARG:N	2.12	0.82
2:H:65:THR:HG21	2:I:711:LEU:CD2	2.10	0.82
2:I:658:THR:HB	2:I:886:PRO:HB2	1.61	0.82
2:J:376:ILE:CD1	2:J:774:MET:HE1	2.09	0.82
2:J:696:ILE:HD12	2:J:876:MET:HE2	1.61	0.82
2:J:800:GLY:HA2	2:J:811:GLU:C	2.04	0.82
3:M:69:LEU:HD23	3:M:478:VAL:HG22	1.60	0.82
1:5:18:PHE:CD1	1:5:18:PHE:O	2.33	0.82
2:B:770:ASN:HD22	2:B:842:THR:HG23	1.42	0.82
2:E:435:ILE:HD11	2:F:390:CYS:SG	2.19	0.82
2:F:116:TYR:CD1	2:F:116:TYR:O	2.33	0.82
2:F:269:ALA:N	2:F:270:PRO:CD	2.41	0.82
2:G:506:ASN:HB3	2:G:686:TYR:CE1	2.15	0.82
2:H:649:ARG:NH1	2:H:894:GLU:OE1	2.12	0.82
2:I:354:GLY:O	2:I:763:ARG:NH2	2.13	0.82
2:J:318:THR:OG1	2:J:338:GLN:NE2	2.13	0.82
2:J:390:CYS:SG	2:J:433:MET:N	2.51	0.82
3:M:56:SER:OG	3:M:57:GLU:OE1	1.95	0.82
2:A:7:MET:HB3	2:A:8:PRO:HD2	1.62	0.82
2:A:493:ILE:HG23	2:C:116:TYR:HE1	1.40	0.82
2:E:162:ILE:CD1	2:E:170:PRO:HB3	2.09	0.82
2:F:104:ARG:HH11	2:F:104:ARG:HB2	1.42	0.82
2:G:142:LYS:O	2:I:423:ALA:HA	1.78	0.82
2:I:160:ILE:CG2	2:I:170:PRO:HG3	2.10	0.82
2:J:287:SER:HB3	2:J:290:LEU:HD11	1.60	0.82
2:J:747:TYR:OH	2:J:768:PHE:N	2.10	0.82
3:M:196:GLY:O	3:M:197:VAL:HG23	1.80	0.82
3:M:336:ASN:O	3:M:337:ASN:ND2	2.11	0.82
2:B:680:TYR:O	2:B:680:TYR:HD1	1.63	0.82
2:D:244:LEU:HB3	2:D:246:PHE:HE1	1.44	0.82
2:E:543:LYS:HD2	2:E:544:ASN:OD1	1.78	0.82
2:H:893:PHE:O	2:H:895:VAL:HG23	1.79	0.82
2:I:810:ARG:HG3	2:I:810:ARG:HH11	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:704:TRP:HE3	2:J:705:PRO:CD	1.83	0.82
2:L:916:THR:HB	2:L:917:PRO:HD3	1.60	0.82
3:M:197:VAL:HG11	3:M:201:ASP:HB2	1.59	0.82
1:6:11:PRO:HD2	2:J:617:ASN:ND2	1.94	0.82
2:A:810:ARG:HH11	2:A:810:ARG:CG	1.91	0.82
2:B:171:ILE:HG23	2:B:175:LYS:HB2	1.62	0.82
2:B:752:GLN:OE1	2:C:40:SER:N	2.13	0.82
2:C:313:MET:HG3	2:C:535:VAL:HG11	1.62	0.82
2:C:503:ASP:OD1	2:C:836:LYS:CE	2.27	0.82
2:D:94:LEU:HD12	2:D:592:PHE:CE1	2.15	0.82
2:H:223:LYS:HB3	2:H:223:LYS:HZ2	1.45	0.82
2:I:135:TRP:CZ2	2:I:291:LEU:HD11	2.15	0.82
2:J:133:CYS:SG	2:J:134:GLU:N	2.52	0.82
2:K:20:ALA:HA	2:K:23:TYR:HE1	1.39	0.82
2:L:109:ARG:HD3	2:L:113:PHE:CE2	2.13	0.82
5:O:154:PHE:HB2	5:O:196:PHE:HD2	1.41	0.82
2:C:60:ARG:HB3	7:T:109:ALA:O	1.79	0.81
2:C:218:LYS:HB2	2:C:218:LYS:NZ	1.95	0.81
2:C:602:THR:HG23	7:T:89:VAL:HG21	1.60	0.81
2:D:382:VAL:CG1	2:D:439:ALA:HA	2.10	0.81
2:E:288:ALA:O	2:E:291:LEU:HD12	1.80	0.81
2:E:793:PRO:O	2:E:795:GLN:N	2.12	0.81
2:F:149:PHE:HA	2:F:182:GLN:HB2	1.62	0.81
2:F:784:TYR:CE1	2:F:786:GLU:HB2	2.15	0.81
2:F:866:LEU:HD11	4:N:174:GLN:CD	2.04	0.81
2:I:155:ASN:OD1	2:I:156:LYS:N	2.12	0.81
2:K:447:TYR:CA	2:K:451:ALA:HB3	2.09	0.81
5:O:262:LEU:H	5:O:262:LEU:CD2	1.93	0.81
2:B:134:GLU:OE1	2:B:134:GLU:HA	1.80	0.81
2:B:341:ASN:OD1	2:B:341:ASN:N	2.03	0.81
2:D:25:SER:OG	2:E:612:ASN:OD1	1.95	0.81
2:F:382:VAL:HG12	2:F:382:VAL:O	1.80	0.81
2:G:323:VAL:HG22	2:G:325:ALA:H	1.45	0.81
2:H:423:ALA:HB2	2:I:143:VAL:H	1.45	0.81
2:H:819:TYR:HB3	2:H:820:PRO:HD3	1.60	0.81
2:J:94:LEU:HD12	2:J:592:PHE:CE1	2.16	0.81
2:J:175:LYS:HB2	2:J:175:LYS:NZ	1.92	0.81
2:J:916:THR:CB	2:J:917:PRO:CD	2.56	0.81
2:K:449:ASN:OD1	2:K:512:ARG:NH2	2.09	0.81
1:3:23:ASN:O	1:3:23:ASN:ND2	2.13	0.81
2:A:704:TRP:NE1	2:A:705:PRO:CD	2.41	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:777:GLN:HE21	2:C:529:VAL:HG12	1.45	0.81
2:C:309:PHE:HE2	2:C:533:ILE:HB	1.44	0.81
2:D:66:LEU:H	2:D:66:LEU:HD12	1.45	0.81
2:D:663:SER:OG	2:D:669:ASP:OD2	1.98	0.81
2:E:688:ASN:ND2	2:E:842:THR:O	2.13	0.81
2:F:307:ASP:OD2	2:F:356:ARG:NH2	2.11	0.81
2:F:784:TYR:HB2	2:F:830:PRO:HD2	1.60	0.81
2:G:135:TRP:H	2:G:135:TRP:HE3	1.24	0.81
2:G:204:LYS:HB2	2:G:263:GLU:O	1.80	0.81
2:G:390:CYS:HG	2:G:433:MET:C	1.88	0.81
2:G:889:LEU:O	2:G:889:LEU:HD23	1.80	0.81
2:H:890:TYR:CE1	2:H:892:LEU:HD21	2.16	0.81
2:J:454:LEU:HB3	2:J:455:PRO:CD	2.10	0.81
2:K:84:PHE:HZ	2:K:586:ILE:HG22	1.43	0.81
2:K:447:TYR:HA	2:K:451:ALA:HB3	1.62	0.81
2:K:792:LEU:HA	2:K:795:GLN:OE1	1.80	0.81
2:L:126:PRO:HG2	2:L:129:ALA:HB2	1.62	0.81
7:U:20:ALA:HB3	7:U:70:ASN:HD22	1.45	0.81
2:A:345:SER:OG	2:A:618:ASP:OD1	1.98	0.81
2:A:539:PHE:C	2:A:541:ALA:H	1.86	0.81
2:A:660:GLU:OE1	2:A:686:TYR:OH	1.97	0.81
2:D:503:ASP:OD2	2:D:836:LYS:NZ	2.10	0.81
2:E:572:ASN:N	2:E:675:SER:OG	2.12	0.81
2:E:656:LEU:HD22	2:E:679:PRO:HB2	1.60	0.81
2:E:661:THR:O	2:E:661:THR:HG23	1.79	0.81
2:F:144:ARG:HH21	2:F:144:ARG:CG	1.94	0.81
2:H:125:ALA:CB	2:I:801:PHE:CE2	2.64	0.81
2:J:160:ILE:HD11	2:J:199:ALA:CB	2.10	0.81
2:J:471:LYS:HD3	2:J:476:TYR:CE2	2.10	0.81
2:L:202:VAL:O	2:L:202:VAL:HG23	1.78	0.81
6:P:23:THR:HG22	6:R:21:LEU:CD1	2.10	0.81
2:A:812:GLY:HA3	2:C:181:PRO:CB	2.09	0.81
2:B:154:ILE:CB	2:B:160:ILE:HA	2.09	0.81
2:B:314:TYR:OH	2:B:667:GLY:HA3	1.80	0.81
2:C:346:TYR:HA	2:C:349:MET:HG2	1.61	0.81
2:D:561:ASP:OD2	2:D:575:ARG:NH2	2.13	0.81
2:G:662:PRO:HA	2:G:672:PHE:HD2	1.44	0.81
2:G:851:ASN:OD1	2:G:853:MET:N	2.11	0.81
2:H:375:ARG:O	2:H:498:SER:HB3	1.81	0.81
2:H:405:ILE:HD11	2:H:410:GLN:HE22	1.45	0.81
2:H:871:ALA:HB3	4:N:180:ARG:NH1	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:871:ALA:HB3	4:N:180:ARG:HH12	1.43	0.81
2:I:387:PRO:HB2	2:I:389:TYR:CE1	2.16	0.81
2:J:563:ASN:HD21	2:J:575:ARG:H	1.28	0.81
2:K:608:ARG:HH12	2:K:906:ARG:CA	1.94	0.81
2:A:543:LYS:HG2	2:A:543:LYS:O	1.79	0.81
2:B:552:TYR:HE2	2:B:909:ILE:CD1	1.94	0.81
2:C:867:TYR:OH	7:T:232:TYR:O	1.98	0.81
2:D:612:ASN:ND2	2:F:25:SER:OG	2.13	0.81
2:E:593:PHE:HD1	2:E:594:PRO:HD2	1.46	0.81
2:F:537:GLN:NE2	2:F:542:ILE:HD11	1.95	0.81
2:G:296:ALA:CB	2:G:297:PRO:CD	2.56	0.81
2:H:15:ILE:HG23	2:I:896:PHE:CE2	2.16	0.81
2:H:339:ASP:OD1	2:H:340:ARG:N	2.12	0.81
2:H:730:ALA:O	2:H:732:CYS:N	2.14	0.81
2:J:395:GLY:CA	2:K:144:ARG:HH22	1.93	0.81
2:K:652:SER:HB2	2:K:892:LEU:HB3	1.63	0.81
1:7:11:PRO:HG3	2:G:896:PHE:CE1	2.15	0.81
2:A:497:TRP:NE1	2:A:836:LYS:HD3	1.95	0.81
2:B:150:ILE:HG22	2:B:150:ILE:O	1.79	0.81
2:B:312:LEU:HD12	2:B:565:ILE:CG2	2.11	0.81
2:C:821:TYR:CB	2:C:822:PRO:CD	2.58	0.81
2:E:147:ALA:HA	2:F:813:GLN:HE21	1.44	0.81
2:F:83:ARG:HD2	2:F:555:GLU:HB3	1.61	0.81
2:G:94:LEU:O	2:G:94:LEU:HG	1.80	0.81
2:G:817:ALA:CB	2:I:121:TYR:HB3	2.11	0.81
2:H:176:THR:HG21	2:H:201:ARG:HH22	1.43	0.81
2:H:296:ALA:HB1	2:H:297:PRO:HD3	1.61	0.81
2:H:323:VAL:CG2	2:H:555:GLU:HG2	2.10	0.81
2:I:744:LEU:HD21	2:I:751:TYR:HE1	1.46	0.81
2:J:445:PHE:CG	2:J:445:PHE:O	2.32	0.81
2:L:654:THR:HG23	2:L:688:ASN:CB	2.09	0.81
2:A:617:ASN:ND2	2:A:898:VAL:HA	1.96	0.81
2:B:74:GLU:HG2	3:M:393:GLN:NE2	1.95	0.81
2:B:302:TYR:HE2	2:B:517:ARG:HG3	1.44	0.81
2:B:529:VAL:CB	2:C:777:GLN:HE22	1.93	0.81
2:B:693:LYS:HG2	2:B:879:GLU:CD	2.05	0.81
2:C:67:ARG:HD2	2:C:589:TYR:CE1	2.16	0.81
2:D:750:GLY:HA2	2:D:754:PHE:CE1	2.16	0.81
2:F:391:PHE:HB3	2:F:392:PRO:CD	2.10	0.81
2:F:643:ARG:NH2	2:H:700:SER:OG	2.13	0.81
2:F:699:ASP:HB3	2:J:643:ARG:HH12	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:38:TYR:HB2	2:I:853:MET:HE3	1.61	0.81
2:G:173:ALA:HB1	2:G:221:ASN:HD21	1.46	0.81
2:J:129:ALA:CB	2:J:212:CYS:HB3	2.11	0.81
2:L:176:THR:HG23	2:L:201:ARG:CD	2.11	0.81
2:L:878:PHE:HD2	2:L:889:LEU:HD21	1.46	0.81
3:M:136:MET:O	3:M:137:SER:OG	1.97	0.81
2:A:58:THR:OG1	2:A:595:MET:O	1.98	0.81
2:B:249:LEU:N	2:B:249:LEU:HD23	1.95	0.81
2:B:352:ALA:HA	2:B:763:ARG:NH1	1.96	0.81
2:B:377:ILE:HG13	2:B:377:ILE:O	1.79	0.81
2:B:781:THR:HG22	2:B:787:TYR:CE2	2.15	0.81
2:C:356:ARG:HB3	2:C:367:VAL:HG11	1.61	0.81
2:C:610:ASP:OD1	2:C:902:HIS:CD2	2.34	0.81
2:G:94:LEU:O	2:G:94:LEU:CG	2.25	0.81
2:G:624:ASN:OD1	2:G:890:TYR:OH	1.99	0.81
2:H:46:ARG:HD2	2:I:617:ASN:HB2	1.63	0.81
2:H:723:ASP:OD2	6:Q:55:TYR:OH	1.98	0.81
2:H:781:THR:HA	2:H:787:TYR:CD2	2.16	0.81
2:I:188:TRP:CE3	2:I:394:GLY:HA3	2.16	0.81
2:I:371:ASP:HB2	2:I:374:VAL:HG12	1.62	0.81
2:J:496:ARG:NH2	2:J:772:GLN:OE1	2.14	0.81
1:0:26:ARG:HG3	1:0:26:ARG:O	1.81	0.81
2:A:25:SER:OG	2:B:612:ASN:ND2	2.13	0.81
2:A:853:MET:HE2	2:B:38:TYR:HB2	1.63	0.81
2:B:837:PHE:O	2:B:837:PHE:CG	2.32	0.81
2:B:921:GLY:C	2:B:923:ALA:N	2.33	0.81
2:C:35:THR:O	2:C:35:THR:HG23	1.78	0.81
2:D:135:TRP:HZ2	2:D:291:LEU:HD12	1.46	0.81
2:D:388:ASN:HB2	2:D:435:ILE:O	1.81	0.81
2:D:444:SER:HA	2:D:447:TYR:CE1	2.16	0.81
2:H:219:PRO:HG2	2:H:219:PRO:O	1.79	0.81
2:K:99:THR:HG23	2:K:588:LEU:HD11	1.63	0.81
3:M:466:LEU:CD1	3:M:467:PRO:CD	2.59	0.81
3:M:466:LEU:CD1	3:M:467:PRO:HD3	2.10	0.81
5:O:188:VAL:HG21	7:T:213:LEU:HD22	1.63	0.81
7:U:23:ALA:HB3	7:U:218:PHE:O	1.81	0.81
2:A:345:SER:O	2:A:349:MET:N	2.14	0.80
2:A:810:ARG:HH11	2:A:810:ARG:HG3	1.45	0.80
2:B:13:MET:HB3	2:C:898:VAL:HG21	1.62	0.80
2:B:191:GLU:OE2	2:B:195:ALA:HB3	1.81	0.80
2:D:122:ASN:ND2	2:E:816:PRO:O	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:493:ILE:O	2:F:525:ASN:ND2	2.14	0.80
2:D:811:GLU:OE2	2:F:184:GLY:N	2.15	0.80
2:F:326:GLY:HA2	2:F:552:TYR:HA	1.64	0.80
2:H:99:THR:HG22	2:H:590:ALA:HB2	1.62	0.80
2:H:725:GLU:N	2:H:725:GLU:OE2	2.13	0.80
2:J:437:LEU:C	2:J:437:LEU:HD12	2.06	0.80
2:J:895:VAL:HG23	2:J:915:ARG:HD2	1.63	0.80
2:K:204:LYS:HG2	2:K:205:ASP:N	1.94	0.80
2:L:720:ARG:HD2	2:L:735:THR:HG21	1.62	0.80
2:A:121:TYR:HA	2:B:819:TYR:CE2	2.15	0.80
2:A:309:PHE:CE2	2:A:533:ILE:HG23	2.16	0.80
2:B:242:VAL:HA	2:B:262:ALA:O	1.81	0.80
2:C:114:LYS:NZ	2:C:298:ASN:HB2	1.96	0.80
2:D:388:ASN:HB3	2:D:437:LEU:HD13	1.63	0.80
2:D:509:ASN:HD21	2:D:676:GLY:HA2	1.46	0.80
2:F:252:THR:CB	2:F:253:PRO:HD2	2.12	0.80
2:F:713:PRO:HG2	2:J:318:THR:HB	1.63	0.80
3:M:221:LEU:HD11	3:M:336:ASN:CG	2.06	0.80
6:P:19:PRO:HD2	6:P:20:TYR:CD2	2.16	0.80
2:C:133:CYS:HA	2:C:203:LEU:O	1.81	0.80
2:D:532:HIS:ND1	2:D:532:HIS:O	2.13	0.80
2:E:294:GLN:NE2	2:E:808:THR:HA	1.96	0.80
2:I:180:GLU:N	2:I:181:PRO:HD3	1.92	0.80
2:I:280:VAL:HG11	2:I:290:LEU:HD21	1.62	0.80
2:I:309:PHE:CE2	2:I:533:ILE:HD12	2.16	0.80
2:J:298:ASN:HB3	2:J:478:ASN:ND2	1.93	0.80
1:8:30:LEU:HD12	1:8:30:LEU:C	2.05	0.80
2:A:603:LEU:O	2:A:603:LEU:HD23	1.82	0.80
2:A:647:ALA:HB1	2:A:896:PHE:CZ	2.16	0.80
2:A:709:ARG:NH1	2:A:709:ARG:CB	2.44	0.80
2:A:813:GLN:NE2	2:C:147:ALA:HA	1.96	0.80
2:B:916:THR:O	2:B:916:THR:HG23	1.81	0.80
2:C:362:MET:O	2:C:364:ASN:N	2.15	0.80
2:C:750:GLY:HA2	2:C:754:PHE:CE1	2.16	0.80
2:D:185:GLN:HG3	2:E:292:THR:HG21	1.60	0.80
2:G:649:ARG:NH1	2:G:894:GLU:OE2	2.15	0.80
2:H:290:LEU:HD12	2:H:290:LEU:N	1.94	0.80
2:H:899:VAL:HG22	2:H:913:TYR:HD1	1.46	0.80
2:K:596:ALA:HB3	2:K:599:THR:HG22	1.63	0.80
2:L:176:THR:OG1	2:L:201:ARG:NH1	2.14	0.80
3:M:468:LEU:HD21	3:M:472:ILE:HD11	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:16:ARG:HB2	2:L:52:PRO:HB3	1.64	0.80
2:B:117:SER:HB2	2:B:511:HIS:CE1	2.17	0.80
2:B:215:SER:HB2	2:C:816:PRO:CA	2.11	0.80
2:B:246:PHE:HA	2:B:258:ALA:HB3	1.64	0.80
2:C:148:PRO:HD2	2:C:200:GLY:CA	2.12	0.80
2:D:391:PHE:HE2	2:F:801:PHE:HB3	1.46	0.80
2:E:252:THR:OG1	2:E:255:GLU:OE2	1.99	0.80
2:F:610:ASP:HA	2:F:902:HIS:CD2	2.16	0.80
2:G:256:PRO:O	2:G:257:LYS:HD3	1.82	0.80
2:G:334:VAL:O	2:G:334:VAL:CG1	2.30	0.80
2:H:435:ILE:HG22	2:H:437:LEU:HD22	1.64	0.80
2:I:620:LEU:CD2	2:I:622:ALA:HB2	2.12	0.80
2:J:115:PRO:CA	2:J:302:TYR:HE1	1.95	0.80
2:A:569:SER:O	2:A:570:LEU:HD23	1.80	0.80
2:A:818:ASN:OD1	2:A:818:ASN:C	2.25	0.80
2:B:306:ARG:HA	2:B:519:ARG:HH11	1.44	0.80
2:B:521:MET:HE1	2:C:380:HIS:HE1	1.47	0.80
2:B:673:THR:O	2:B:673:THR:OG1	1.98	0.80
2:B:784:TYR:HB2	2:B:830:PRO:HD2	1.62	0.80
2:C:114:LYS:HE3	2:C:298:ASN:HB2	1.61	0.80
2:D:750:GLY:HA2	2:D:754:PHE:HE1	1.45	0.80
2:E:244:LEU:HD12	2:E:261:TYR:CE2	2.17	0.80
2:F:349:MET:HA	2:F:619:TYR:CD2	2.17	0.80
2:F:654:THR:HG21	2:F:685:PHE:CD2	2.17	0.80
2:G:44:LYS:NZ	2:H:95:ASP:OD2	2.11	0.80
2:G:740:LEU:O	2:G:740:LEU:HD23	1.82	0.80
2:H:433:MET:HE1	2:I:433:MET:SD	2.22	0.80
2:J:172:TYR:CD1	2:J:242:VAL:CB	2.63	0.80
2:K:354:GLY:O	2:K:763:ARG:NH2	2.14	0.80
2:K:660:GLU:OE1	2:K:686:TYR:OH	1.99	0.80
2:A:306:ARG:HG3	2:A:310:ILE:HG22	1.64	0.80
2:A:437:LEU:C	2:A:437:LEU:HD22	2.06	0.80
2:B:525:ASN:HB3	2:C:495:ALA:HB2	1.61	0.80
2:C:83:ARG:HB3	2:C:555:GLU:CG	2.10	0.80
2:C:209:MET:CA	2:C:209:MET:CE	2.55	0.80
2:C:729:VAL:O	2:C:729:VAL:HG13	1.81	0.80
2:E:516:LEU:CD1	2:E:567:GLN:HG2	2.11	0.80
2:G:95:ASP:O	2:G:97:ALA:N	2.15	0.80
2:K:114:LYS:NZ	2:K:298:ASN:HB2	1.95	0.80
2:K:312:LEU:HD12	2:K:565:ILE:HG12	1.64	0.80
2:L:263:GLU:OE2	2:L:263:GLU:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:16:ALA:HB2	2:B:858:LEU:HD13	1.64	0.80
2:A:292:THR:HA	2:C:188:TRP:CZ3	2.16	0.80
2:A:654:THR:HG21	2:A:685:PHE:CG	2.16	0.80
2:B:299:ARG:H	2:B:478:ASN:ND2	1.79	0.80
2:B:477:MET:CB	2:B:570:LEU:HD21	2.11	0.80
2:B:744:LEU:HD21	2:B:751:TYR:CE1	2.16	0.80
2:C:187:GLN:N	2:C:187:GLN:OE1	2.14	0.80
2:C:326:GLY:O	2:C:328:ALA:N	2.15	0.80
2:D:400:ASP:OD1	2:D:401:THR:N	2.15	0.80
2:D:890:TYR:CE1	2:D:892:LEU:HD11	2.15	0.80
2:E:154:ILE:HD11	2:E:256:PRO:CB	2.10	0.80
2:E:533:ILE:HG21	2:E:535:VAL:HG13	1.64	0.80
2:E:573:ASP:HB3	2:E:576:VAL:CG1	2.11	0.80
2:G:678:VAL:N	2:G:682:ASP:OD2	2.15	0.80
2:H:406:LYS:HB3	2:I:156:LYS:HZ2	1.44	0.80
2:J:477:MET:CE	2:J:570:LEU:HG	2.11	0.80
2:K:10:TRP:HZ2	2:L:647:ALA:HB2	1.45	0.80
2:K:121:TYR:OH	2:L:820:PRO:O	1.99	0.80
2:K:362:MET:HE1	2:L:754:PHE:CD2	2.16	0.80
2:K:406:LYS:HE3	2:K:411:THR:OG1	1.80	0.80
2:B:289:ASP:C	2:B:291:LEU:HG	2.07	0.80
2:C:290:LEU:HD12	2:C:290:LEU:H	1.46	0.80
2:C:342:THR:O	2:C:342:THR:OG1	1.94	0.80
2:D:735:THR:O	2:D:737:ASP:N	2.15	0.80
2:E:521:MET:HE1	2:F:380:HIS:CE1	2.17	0.80
2:E:819:TYR:CD1	2:E:819:TYR:O	2.34	0.80
2:H:922:ASN:OD1	2:J:702:VAL:HG11	1.81	0.80
2:J:46:ARG:NH1	2:J:46:ARG:CB	2.44	0.80
2:K:10:TRP:HA	2:K:15:ILE:HG22	1.61	0.80
2:K:368:ASP:OD1	2:K:513:ASN:ND2	2.15	0.80
3:M:139:ASN:OD1	3:M:166:LEU:CA	2.30	0.80
5:O:265:LEU:N	5:O:265:LEU:HD23	1.96	0.80
7:U:230:ASP:OD1	7:U:231:GLY:N	2.14	0.80
2:B:110:GLY:HA3	2:B:579:ALA:HB2	1.64	0.80
2:B:656:LEU:CD2	2:B:661:THR:OG1	2.29	0.80
2:C:209:MET:HE2	2:C:209:MET:HA	1.59	0.80
2:D:406:LYS:HG3	2:D:410:GLN:N	1.96	0.80
2:E:134:GLU:HB2	2:E:203:LEU:O	1.80	0.80
2:E:302:TYR:HE2	2:E:517:ARG:HG3	1.46	0.80
2:E:491:VAL:HG22	2:E:492:ASN:HD22	1.45	0.80
2:J:562:VAL:HG11	2:J:579:ALA:HB1	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:221:ASN:N	2:L:788:GLN:HE22	1.79	0.80
2:K:519:ARG:NH2	2:K:567:GLN:OE1	2.15	0.80
3:M:144:ARG:HA	3:M:160:GLU:O	1.82	0.80
2:B:182:GLN:HA	2:C:811:GLU:HB2	1.64	0.79
2:B:711:LEU:HD21	2:B:727:TYR:CD1	2.18	0.79
2:D:788:GLN:HE22	2:F:221:ASN:N	1.78	0.79
2:E:138:ASN:CB	2:E:140:LYS:HG3	2.11	0.79
2:E:810:ARG:HD3	2:F:430:ILE:HG23	1.64	0.79
2:F:96:MET:O	2:F:99:THR:HG22	1.82	0.79
2:F:695:SER:HB3	6:R:28:TRP:HZ2	1.45	0.79
2:G:798:ASN:ND2	2:I:124:LEU:HD12	1.96	0.79
2:H:274:LEU:N	2:H:274:LEU:CD1	2.45	0.79
2:I:387:PRO:HB2	2:I:389:TYR:CZ	2.17	0.79
2:J:181:PRO:HD2	2:K:811:GLU:OE1	1.81	0.79
2:J:187:GLN:O	2:J:189:ASN:N	2.15	0.79
2:B:210:LEU:HD12	2:B:211:PRO:HD2	1.63	0.79
2:C:190:SER:O	2:C:192:VAL:N	2.15	0.79
2:C:353:LEU:HD12	2:C:353:LEU:H	1.47	0.79
2:F:154:ILE:HG12	2:F:160:ILE:HG22	1.63	0.79
2:H:435:ILE:CD1	2:I:390:CYS:HA	2.12	0.79
2:I:66:LEU:HD12	2:I:592:PHE:HE2	1.47	0.79
2:J:823:LEU:CD2	2:L:526:GLY:HA3	2.12	0.79
2:J:915:ARG:HH11	2:J:915:ARG:CB	1.94	0.79
2:L:337:LEU:HD22	2:L:915:ARG:NH2	1.97	0.79
3:M:69:LEU:HD23	3:M:478:VAL:CG2	2.12	0.79
5:O:260:SER:O	5:O:262:LEU:N	2.15	0.79
7:U:75:PRO:HG2	7:U:78:GLN:HG2	1.64	0.79
2:A:645:TRP:CH2	2:A:874:LEU:HD23	2.17	0.79
2:C:603:LEU:HD22	2:C:603:LEU:O	1.81	0.79
2:D:212:CYS:C	2:D:214:GLY:H	1.89	0.79
2:E:138:ASN:C	2:E:138:ASN:HD22	1.90	0.79
2:F:360:PHE:HD1	2:F:362:MET:H	1.30	0.79
2:F:687:LEU:HD13	2:F:883:MET:HE1	1.64	0.79
2:G:156:LYS:HZ1	2:I:412:TRP:CD1	1.99	0.79
2:G:203:LEU:HB3	2:G:207:THR:HG21	1.65	0.79
2:H:914:LEU:HD23	2:H:915:ARG:N	1.96	0.79
2:J:863:GLN:OE1	2:L:53:THR:OG1	2.00	0.79
2:K:588:LEU:HD12	2:K:589:TYR:H	1.46	0.79
3:M:133:ASN:CG	3:M:490:TYR:OH	2.25	0.79
2:A:113:PHE:CE2	2:A:115:PRO:HG3	2.16	0.79
2:C:356:ARG:HB2	2:C:356:ARG:NH2	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:866:LEU:HD13	7:T:233:ASP:HB2	1.62	0.79
2:D:276:TYR:O	2:D:276:TYR:CG	2.34	0.79
2:E:14:HIS:CE1	2:F:900:ARG:HH12	2.00	0.79
2:G:368:ASP:OD1	2:G:368:ASP:N	2.14	0.79
2:J:356:ARG:HH11	2:J:367:VAL:HG12	1.48	0.79
2:L:248:ALA:HB2	2:L:256:PRO:HA	1.64	0.79
2:A:380:HIS:NE2	2:C:521:MET:SD	2.56	0.79
2:B:74:GLU:CG	3:M:393:GLN:NE2	2.30	0.79
2:C:196:GLN:HA	2:C:196:GLN:NE2	1.98	0.79
2:C:730:ALA:HB3	2:C:732:CYS:HB2	1.65	0.79
2:C:813:GLN:HG2	2:C:814:ALA:H	1.47	0.79
2:E:189:ASN:ND2	2:E:189:ASN:O	2.16	0.79
2:F:201:ARG:HG2	2:F:261:TYR:HB2	1.65	0.79
2:G:626:LEU:HD23	2:G:888:LEU:HD13	1.64	0.79
2:G:809:MET:HB2	2:H:389:TYR:CE2	2.18	0.79
2:H:323:VAL:HG12	2:H:332:ASN:ND2	1.98	0.79
2:H:871:ALA:CB	4:N:180:ARG:NH1	2.44	0.79
2:J:175:LYS:NZ	2:J:175:LYS:CB	2.44	0.79
2:K:249:LEU:HD13	2:K:250:PRO:CD	2.05	0.79
2:B:169:GLN:CB	2:B:170:PRO:CD	2.61	0.79
2:B:265:VAL:HG22	2:B:266:SER:H	1.45	0.79
2:B:649:ARG:O	2:B:848:PHE:HB3	1.83	0.79
2:C:280:VAL:HG12	2:C:280:VAL:O	1.83	0.79
2:C:883:MET:HE3	2:C:887:THR:HB	1.64	0.79
2:E:819:TYR:O	2:E:819:TYR:CG	2.31	0.79
2:F:175:LYS:NZ	2:F:175:LYS:CB	2.42	0.79
2:G:201:ARG:HB3	2:H:815:TYR:CZ	2.17	0.79
2:G:375:ARG:HG2	2:G:375:ARG:HH11	1.44	0.79
2:B:352:ALA:O	2:B:354:GLY:N	2.15	0.79
2:B:480:ARG:HH21	2:B:480:ARG:HB2	1.45	0.79
2:B:792:LEU:H	2:B:793:PRO:HD3	1.47	0.79
2:C:24:LEU:HD11	2:C:45:PHE:CE2	2.11	0.79
2:C:64:LEU:HD11	2:C:594:PRO:CG	2.13	0.79
2:C:621:CYS:HB3	2:C:895:VAL:O	1.81	0.79
2:D:448:SER:OG	2:E:385:GLU:OE1	2.01	0.79
2:E:211:PRO:HG3	2:E:295:ALA:HB2	1.64	0.79
2:F:302:TYR:HE2	2:F:517:ARG:HG3	1.46	0.79
2:F:563:ASN:HB2	2:F:575:ARG:HH12	1.47	0.79
2:G:155:ASN:OD1	2:G:156:LYS:N	2.16	0.79
2:G:481:VAL:HG21	2:G:807:PRO:HG3	1.65	0.79
2:H:268:GLU:HB3	2:H:270:PRO:HD3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:382:VAL:CG2	2:H:439:ALA:HA	2.13	0.79
2:I:16:ALA:HB1	2:I:50:VAL:HG11	1.64	0.79
2:K:406:LYS:HB2	2:K:413:THR:O	1.83	0.79
2:K:890:TYR:CE1	2:K:892:LEU:HD13	2.17	0.79
2:L:454:LEU:HD23	2:L:455:PRO:HD2	1.63	0.79
3:M:139:ASN:CG	3:M:166:LEU:O	2.25	0.79
6:Q:34:ASN:HA	6:Q:47:PRO:HB2	1.63	0.79
1:2:16:ARG:CB	1:2:17:PRO:CD	2.61	0.79
2:A:445:PHE:O	2:A:449:ASN:HB2	1.83	0.79
2:A:788:GLN:HE22	2:C:220:THR:C	1.90	0.79
2:A:895:VAL:CG1	2:A:917:PRO:HG2	2.13	0.79
2:C:309:PHE:CE1	2:C:364:ASN:HB2	2.17	0.79
2:C:390:CYS:SG	2:C:433:MET:C	2.65	0.79
2:C:597:HIS:HB2	7:T:93:ARG:NH2	1.97	0.79
2:C:729:VAL:O	2:C:729:VAL:HG22	1.81	0.79
2:D:521:MET:SD	2:E:380:HIS:NE2	2.55	0.79
2:E:364:ASN:OD1	2:E:519:ARG:HG2	1.83	0.79
2:F:337:LEU:CD1	4:N:191:LYS:HZ2	1.95	0.79
2:G:96:MET:HE1	2:G:547:LEU:HD13	1.63	0.79
2:G:795:GLN:HB3	2:G:819:TYR:HB2	1.63	0.79
2:H:627:TYR:CD2	2:H:638:ILE:HG21	2.17	0.79
2:J:788:GLN:NE2	2:L:221:ASN:O	2.15	0.79
2:L:134:GLU:OE1	2:L:142:LYS:HA	1.83	0.79
2:L:895:VAL:HB	2:L:917:PRO:HD2	1.63	0.79
2:A:129:ALA:CB	2:A:130:PRO:CD	2.46	0.79
2:A:629:ILE:HB	2:A:887:THR:HG23	1.65	0.79
2:B:13:MET:HB3	2:C:898:VAL:CG2	2.13	0.79
2:B:764:MET:HE2	2:B:841:ARG:HH12	1.47	0.79
2:D:437:LEU:HD23	2:F:437:LEU:HD13	1.64	0.79
2:E:95:ASP:O	2:E:97:ALA:N	2.16	0.79
2:E:603:LEU:O	2:E:603:LEU:HD23	1.81	0.79
2:E:711:LEU:HD11	2:E:727:TYR:HE1	1.48	0.79
2:G:53:THR:HG22	2:G:53:THR:O	1.81	0.79
2:I:24:LEU:HD21	2:I:45:PHE:CE2	2.18	0.79
2:K:10:TRP:CD2	7:U:17:MET:HE1	2.17	0.79
2:K:223:LYS:O	2:K:223:LYS:HG3	1.82	0.79
2:K:246:PHE:HD1	2:K:259:VAL:CG2	1.93	0.79
2:K:799:SER:HB2	2:K:814:ALA:CA	2.12	0.79
2:K:916:THR:OG1	2:K:917:PRO:HD3	1.83	0.79
2:L:144:ARG:HB3	2:L:144:ARG:CZ	2.13	0.79
2:L:657:LYS:HE3	2:L:885:GLU:OE1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:56:LEU:HD21	7:U:202:VAL:CG1	2.12	0.79
2:B:124:LEU:O	2:B:124:LEU:HD12	1.83	0.79
2:B:693:LYS:CD	2:B:879:GLU:OE1	2.31	0.79
2:B:894:GLU:O	2:B:895:VAL:HB	1.82	0.79
2:C:207:THR:CG2	2:C:264:ASN:HA	2.12	0.79
2:C:749:ILE:HG13	2:C:750:GLY:N	1.96	0.79
2:D:363:TRP:O	2:D:365:GLN:N	2.16	0.79
2:D:570:LEU:O	2:D:570:LEU:HD23	1.83	0.79
2:E:652:SER:OG	2:E:843:MET:HE3	1.83	0.79
2:F:310:ILE:HA	2:F:343:GLU:OE1	1.83	0.79
2:H:124:LEU:HB3	2:I:798:ASN:HD21	1.46	0.79
2:I:24:LEU:HD21	2:I:45:PHE:HE2	1.45	0.79
2:J:18:GLN:HB3	2:J:22:GLU:HG3	1.65	0.79
2:D:90:ASP:HA	2:D:549:PRO:HB3	1.64	0.78
2:F:111:PRO:HD3	2:F:527:ARG:NH2	1.96	0.78
2:F:329:SER:HB3	2:G:90:ASP:HB2	1.65	0.78
2:F:886:PRO:HG2	6:Q:33:GLN:HE22	1.47	0.78
2:G:435:ILE:HG12	2:H:390:CYS:SG	2.23	0.78
2:G:614:GLN:HE22	2:G:903:GLN:NE2	1.79	0.78
2:G:813:GLN:HA	2:G:813:GLN:OE1	1.83	0.78
2:H:346:TYR:CD2	2:H:538:LYS:HG2	2.18	0.78
2:H:374:VAL:HG11	2:H:510:HIS:CE1	2.18	0.78
2:H:402:TYR:HB2	2:I:247:PHE:HE1	1.43	0.78
2:H:406:LYS:HB2	2:I:256:PRO:HD3	1.65	0.78
2:I:714:ASN:HB2	2:I:715:GLU:OE1	1.83	0.78
2:J:49:THR:O	2:J:49:THR:OG1	2.00	0.78
2:J:734:MET:HE2	2:J:739:PHE:CA	2.14	0.78
2:J:824:ILE:HD13	2:L:115:PRO:HD2	1.64	0.78
2:K:508:PHE:CD2	2:K:684:THR:HB	2.17	0.78
2:L:694:VAL:HG22	2:L:878:PHE:CD1	2.16	0.78
3:M:189:LEU:CA	3:M:193:ARG:HD2	2.12	0.78
2:A:704:TRP:HZ2	2:A:861:LEU:HD13	1.47	0.78
2:B:874:LEU:HD12	2:B:874:LEU:N	1.97	0.78
2:C:655:ARG:HH21	2:C:883:MET:HE2	1.45	0.78
2:D:172:TYR:CD1	2:D:175:LYS:HD2	2.18	0.78
2:F:796:HIS:NE2	2:F:815:TYR:HB2	1.99	0.78
2:G:131:ASN:HD22	2:H:816:PRO:HD3	1.48	0.78
2:G:292:THR:O	2:G:292:THR:OG1	1.98	0.78
2:H:87:ALA:HA	2:H:551:SER:HA	1.65	0.78
2:H:100:TYR:HE2	2:H:534:GLN:HG2	1.47	0.78
2:J:25:SER:H	2:K:612:ASN:HD21	1.28	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:318:THR:OG1	2:J:319:GLY:N	2.15	0.78
2:J:739:PHE:CE1	2:J:743:MET:HG3	2.18	0.78
2:K:61:SER:OG	2:L:708:ASP:N	2.16	0.78
1:3:16:ARG:HD2	1:3:18:PHE:CE2	2.18	0.78
1:4:26:GLY:O	1:4:27:THR:HG23	1.82	0.78
2:B:215:SER:HB2	2:C:816:PRO:HA	1.64	0.78
2:B:296:ALA:HB1	2:B:297:PRO:HD2	1.65	0.78
2:B:430:ILE:HG22	2:B:430:ILE:O	1.83	0.78
2:C:188:TRP:CE3	2:C:188:TRP:HA	2.18	0.78
2:D:149:PHE:CZ	2:D:162:ILE:HD12	2.18	0.78
2:D:386:LEU:HD11	2:F:447:TYR:CG	2.18	0.78
2:E:94:LEU:HD12	2:E:592:PHE:CE1	2.17	0.78
2:F:60:ARG:HH12	2:F:597:HIS:HB2	1.47	0.78
2:F:150:ILE:HD12	2:F:150:ILE:O	1.83	0.78
2:F:212:CYS:O	2:F:212:CYS:SG	2.41	0.78
2:G:208:PRO:HA	2:G:285:ILE:HG12	1.64	0.78
2:G:545:LEU:HD21	2:G:909:ILE:CD1	2.13	0.78
2:G:900:ARG:HG3	2:G:900:ARG:NH1	1.85	0.78
2:H:35:THR:HB	2:H:38:TYR:CE1	2.18	0.78
2:H:588:LEU:HD23	2:H:589:TYR:N	1.97	0.78
2:I:74:GLU:HB3	2:I:81:LYS:HB3	1.66	0.78
2:J:324:LEU:HB3	2:J:333:ALA:HB3	1.64	0.78
2:K:915:ARG:O	2:K:919:SER:HB3	1.83	0.78
2:L:249:LEU:HD23	2:L:250:PRO:CD	2.11	0.78
3:M:466:LEU:HG	3:M:467:PRO:HD2	1.64	0.78
2:A:121:TYR:HA	2:B:819:TYR:HE2	1.48	0.78
2:A:810:ARG:CB	2:A:810:ARG:NH1	2.46	0.78
2:C:154:ILE:H	2:C:197:LYS:HE3	1.49	0.78
2:D:311:GLY:O	2:D:559:ARG:NH1	2.16	0.78
2:E:109:ARG:HH22	2:E:523:LEU:HB2	1.49	0.78
2:E:895:VAL:HG12	2:E:917:PRO:HB2	1.62	0.78
2:F:647:ALA:O	2:F:649:ARG:N	2.15	0.78
2:G:155:ASN:N	2:G:159:GLY:O	2.16	0.78
2:G:249:LEU:HD13	2:G:250:PRO:C	2.07	0.78
2:G:742:GLN:HE22	2:G:845:ARG:N	1.79	0.78
2:H:192:VAL:O	2:H:192:VAL:HG12	1.81	0.78
2:I:228:SER:O	2:I:229:LEU:HD23	1.83	0.78
2:J:163:GLY:N	2:J:168:ASN:HB2	1.98	0.78
2:L:20:ALA:HA	2:L:23:TYR:CE1	2.18	0.78
2:L:146:GLN:NE2	2:L:146:GLN:CA	2.47	0.78
2:L:301:ASN:OD1	2:L:568:SER:OG	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:548:LEU:HD12	2:L:604:GLU:HA	1.65	0.78
2:B:136:LYS:HB2	2:B:141:ILE:HG23	1.64	0.78
2:B:296:ALA:HB1	2:B:297:PRO:HD3	1.64	0.78
2:B:693:LYS:CG	2:B:879:GLU:CD	2.57	0.78
2:C:123:SER:C	2:C:125:ALA:H	1.87	0.78
2:C:516:LEU:HA	2:C:519:ARG:NH2	1.97	0.78
2:E:110:GLY:HA3	2:E:578:GLY:O	1.82	0.78
2:F:388:ASN:HB2	2:F:435:ILE:O	1.84	0.78
2:H:826:GLN:NE2	2:H:826:GLN:O	2.16	0.78
2:K:864:ASN:OD1	2:K:865:MET:N	2.16	0.78
2:L:347:GLN:HE22	2:L:682:ASP:C	1.91	0.78
3:M:217:PRO:O	3:M:220:LYS:NZ	2.14	0.78
7:T:6:PRO:HD2	7:T:52:ASN:ND2	1.99	0.78
2:A:447:TYR:HD1	2:A:451:ALA:HB3	1.49	0.78
2:A:563:ASN:HD21	2:A:575:ARG:HG2	1.46	0.78
2:B:180:GLU:OE1	2:B:181:PRO:CD	2.31	0.78
2:B:207:THR:HB	2:B:267:ILE:HD11	1.66	0.78
2:C:549:PRO:CD	2:C:604:GLU:HG3	2.14	0.78
2:C:749:ILE:HG13	2:C:750:GLY:H	1.48	0.78
2:D:709:ARG:HB3	2:F:64:LEU:HB2	1.64	0.78
2:F:116:TYR:O	2:F:116:TYR:CG	2.33	0.78
2:H:516:LEU:HD22	2:H:567:GLN:HG2	1.66	0.78
2:K:471:LYS:HA	2:K:476:TYR:CD2	2.18	0.78
3:M:100:THR:HG23	3:M:103:GLU:H	1.47	0.78
1:5:24:GLU:O	1:5:26:GLY:N	2.14	0.78
2:B:20:ALA:HA	2:B:23:TYR:CE1	2.19	0.78
2:H:388:ASN:HB3	2:H:437:LEU:HD23	1.66	0.78
2:H:481:VAL:HG21	2:H:807:PRO:HG3	1.66	0.78
2:J:400:ASP:OD1	2:J:424:GLU:HB2	1.84	0.78
2:J:402:TYR:CD1	2:K:249:LEU:HA	2.18	0.78
2:K:346:TYR:CG	2:K:538:LYS:HG2	2.18	0.78
2:L:222:GLU:O	2:L:224:GLY:N	2.16	0.78
3:M:132:ILE:CG2	3:M:132:ILE:O	2.31	0.78
3:M:139:ASN:OD1	3:M:166:LEU:N	2.16	0.78
6:S:55:TYR:O	6:S:55:TYR:CD1	2.37	0.78
2:B:171:ILE:CG2	2:B:175:LYS:HB2	2.13	0.78
2:C:150:ILE:HD13	2:C:191:GLU:HG3	1.65	0.78
2:C:188:TRP:HE3	2:C:188:TRP:N	1.81	0.78
2:C:821:TYR:HB2	2:C:822:PRO:CD	2.13	0.78
2:D:387:PRO:HB2	2:D:389:TYR:CE1	2.18	0.78
2:D:424:GLU:N	2:D:424:GLU:CD	2.42	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:525:ASN:HA	2:E:495:ALA:HB2	1.64	0.78
2:E:895:VAL:HG11	2:E:918:PHE:HB2	1.66	0.78
2:F:131:ASN:ND2	2:F:131:ASN:H	1.82	0.78
2:G:390:CYS:HA	2:I:435:ILE:HD13	1.65	0.78
2:I:744:LEU:HD21	2:I:751:TYR:CE1	2.18	0.78
2:J:323:VAL:CG2	2:J:555:GLU:HB3	2.13	0.78
2:A:306:ARG:HB2	2:A:565:ILE:O	1.83	0.78
2:B:60:ARG:HD2	2:B:597:HIS:CE1	2.19	0.78
2:B:154:ILE:HD12	2:B:154:ILE:C	2.09	0.78
2:C:197:LYS:HZ1	2:C:256:PRO:HB3	1.48	0.78
2:C:582:ARG:HB3	2:C:584:ASP:N	1.97	0.78
2:D:483:VAL:HG23	2:D:805:MET:CA	2.14	0.78
2:D:508:PHE:HE2	2:D:684:THR:HG23	1.48	0.78
2:D:811:GLU:OE1	2:F:182:GLN:N	2.17	0.78
2:E:729:VAL:HG12	2:E:734:MET:HG2	1.65	0.78
2:F:643:ARG:NH1	2:H:699:ASP:HB2	1.98	0.78
2:G:380:HIS:CD2	2:I:521:MET:HE1	2.18	0.78
2:G:868:ALA:O	2:G:869:ASN:HB2	1.82	0.78
2:H:613:ASP:OD2	2:H:902:HIS:HB2	1.83	0.78
2:J:516:LEU:HD12	2:J:519:ARG:HH21	1.47	0.78
2:K:9:GLN:NE2	7:U:16:GLN:HA	1.98	0.78
2:L:745:SER:HB3	2:L:847:PRO:HG3	1.66	0.78
3:M:418:VAL:HG22	3:M:447:ALA:H	1.49	0.78
6:P:41:ASP:OD1	6:P:42:GLY:N	2.17	0.78
2:A:12:TYR:O	2:A:12:TYR:CG	2.36	0.78
2:A:818:ASN:O	2:A:818:ASN:CG	2.16	0.78
2:B:693:LYS:HB2	2:B:879:GLU:OE1	1.81	0.78
2:C:154:ILE:HG23	2:C:197:LYS:CB	2.13	0.78
2:C:349:MET:SD	2:C:543:LYS:HE3	2.24	0.78
2:D:792:LEU:HA	2:D:795:GLN:OE1	1.83	0.78
2:F:402:TYR:CD2	2:F:425:ILE:HG22	2.19	0.78
2:G:527:ARG:HD3	2:G:528:TYR:CZ	2.19	0.78
2:H:728:ASN:OD1	2:H:728:ASN:N	2.14	0.78
2:H:800:GLY:HA2	2:H:812:GLY:CA	2.11	0.78
2:H:878:PHE:HE2	2:H:889:LEU:HD21	1.45	0.78
2:H:895:VAL:CG1	2:H:917:PRO:HD2	2.14	0.78
2:I:388:ASN:HB2	2:I:435:ILE:O	1.84	0.78
2:J:217:ALA:HB3	2:J:226:GLN:HE22	1.48	0.78
2:L:609:ASN:HD21	7:U:87:THR:HG21	1.48	0.78
2:A:750:GLY:HA2	2:A:754:PHE:CE1	2.19	0.77
2:B:680:TYR:O	2:B:680:TYR:CD1	2.37	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:867:TYR:OH	5:O:63:SER:OG	2.01	0.77
2:C:96:MET:CE	2:C:547:LEU:HD11	2.13	0.77
2:C:345:SER:C	2:C:347:GLN:H	1.91	0.77
2:C:370:TYR:CD1	2:C:370:TYR:N	2.52	0.77
2:D:135:TRP:HZ2	2:D:291:LEU:CD1	1.97	0.77
2:D:488:ASP:O	2:D:491:VAL:HG22	1.84	0.77
2:F:815:TYR:HB3	2:F:816:PRO:HD2	1.64	0.77
2:G:9:GLN:NE2	2:H:914:LEU:HD11	1.99	0.77
2:G:20:ALA:HA	2:G:23:TYR:CE2	2.20	0.77
2:G:291:LEU:O	2:G:291:LEU:HD23	1.85	0.77
2:H:389:TYR:CE1	2:I:393:LEU:HD21	2.20	0.77
2:I:279:ASP:HA	2:I:464:ASN:HD21	1.48	0.77
2:I:350:LEU:HB3	2:I:356:ARG:HD2	1.66	0.77
2:J:729:VAL:HB	2:J:736:LYS:HG2	1.65	0.77
2:J:914:LEU:HD23	2:L:13:MET:HG2	1.67	0.77
2:L:144:ARG:HG2	2:L:144:ARG:HH21	1.48	0.77
2:A:88:VAL:HG13	2:A:549:PRO:HA	1.65	0.77
2:A:704:TRP:CD2	2:A:705:PRO:HD3	2.02	0.77
2:B:749:ILE:O	2:B:749:ILE:HG13	1.84	0.77
2:E:608:ARG:NH1	2:E:905:HIS:O	2.17	0.77
2:F:522:LEU:O	2:F:522:LEU:HD23	1.84	0.77
2:G:134:GLU:HA	2:G:134:GLU:OE1	1.85	0.77
2:I:314:TYR:CE1	2:I:559:ARG:HG3	2.19	0.77
2:J:299:ARG:HH11	2:J:570:LEU:HD11	1.48	0.77
2:K:9:GLN:HE22	7:U:16:GLN:HA	1.48	0.77
2:K:874:LEU:HD21	2:K:876:MET:HG3	1.65	0.77
2:L:218:LYS:HG2	2:L:218:LYS:O	1.83	0.77
2:L:658:THR:HG21	2:L:886:PRO:HG2	1.66	0.77
2:L:744:LEU:HD11	2:L:853:MET:HG3	1.66	0.77
2:A:729:VAL:HB	2:A:736:LYS:CG	2.14	0.77
2:D:158:ASN:HB2	2:D:171:ILE:HG21	1.65	0.77
2:D:268:GLU:HG2	2:D:269:ALA:H	1.50	0.77
2:D:686:TYR:HD1	2:D:687:LEU:HG	1.47	0.77
2:D:695:SER:HB3	2:D:877:THR:HG22	1.65	0.77
2:E:316:ASN:ND2	2:E:341:ASN:HA	1.98	0.77
2:F:58:THR:HG21	2:F:597:HIS:CE1	2.18	0.77
2:F:72:ASP:HB2	2:F:83:ARG:HB2	1.65	0.77
2:F:377:ILE:O	2:F:377:ILE:HG13	1.85	0.77
2:F:781:THR:HG23	2:F:787:TYR:CE2	2.19	0.77
2:G:315:TYR:CZ	2:G:538:LYS:HG2	2.19	0.77
2:G:358:ARG:HG3	2:G:358:ARG:NH1	1.86	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:209:MET:HE3	2:I:290:LEU:HB2	1.66	0.77
2:I:717:GLU:O	2:I:735:THR:OG1	2.02	0.77
2:J:88:VAL:CG2	2:J:549:PRO:HA	2.14	0.77
2:J:377:ILE:CG2	2:J:499:PRO:HD3	2.14	0.77
2:K:784:TYR:CE2	2:K:829:VAL:HG13	2.19	0.77
2:K:796:HIS:HB3	2:K:818:ASN:OD1	1.83	0.77
7:U:223:ASP:OD1	7:U:225:VAL:HG22	1.82	0.77
2:A:95:ASP:HA	2:A:546:LEU:HA	1.67	0.77
2:A:435:ILE:HG22	2:A:437:LEU:N	1.99	0.77
2:A:617:ASN:HD21	2:A:898:VAL:HG12	1.48	0.77
2:B:608:ARG:NH2	2:B:906:ARG:HG2	1.99	0.77
2:D:514:ALA:O	2:D:517:ARG:HG2	1.85	0.77
2:E:315:TYR:OH	2:E:538:LYS:N	2.14	0.77
2:F:617:ASN:ND2	2:F:621:CYS:SG	2.58	0.77
2:F:771:PHE:HD1	2:F:772:GLN:H	1.32	0.77
2:G:209:MET:CE	2:G:290:LEU:HB2	2.13	0.77
2:G:371:ASP:O	2:G:373:ASP:N	2.18	0.77
2:H:14:HIS:HE1	2:I:900:ARG:HH21	1.33	0.77
2:H:453:TYR:O	2:H:502:MET:HE3	1.85	0.77
2:I:152:THR:HG22	2:I:197:LYS:HE2	1.66	0.77
2:I:390:CYS:N	2:I:433:MET:O	2.16	0.77
2:J:287:SER:HB3	2:J:290:LEU:CD1	2.14	0.77
2:L:607:LEU:O	2:L:607:LEU:HD23	1.84	0.77
3:M:89:PHE:CE2	3:M:91:THR:HG23	2.20	0.77
3:M:155:GLY:O	3:M:156:LEU:HD23	1.83	0.77
2:B:691:PHE:HD1	2:B:880:VAL:HG22	1.49	0.77
2:D:116:TYR:CD1	2:D:116:TYR:C	2.60	0.77
2:D:201:ARG:HG2	2:D:201:ARG:NH1	2.00	0.77
2:D:251:SER:C	2:D:253:PRO:HD3	2.09	0.77
2:E:694:VAL:CG2	2:E:716:PHE:HB2	2.15	0.77
2:F:122:ASN:ND2	2:F:212:CYS:SG	2.58	0.77
2:G:114:LYS:NZ	2:G:298:ASN:O	2.17	0.77
2:K:468:PRO:HG2	2:K:475:ALA:HB3	1.66	0.77
2:K:878:PHE:HE2	2:K:889:LEU:HD21	1.47	0.77
2:L:310:ILE:CG2	2:L:343:GLU:HB3	2.15	0.77
5:O:199:THR:HG22	5:O:201:ARG:H	1.48	0.77
2:A:387:PRO:HA	2:C:440:ASN:HD21	1.49	0.77
2:B:462:PRO:HD3	2:B:481:VAL:HG12	1.65	0.77
2:B:711:LEU:HB3	2:B:737:ASP:HB2	1.66	0.77
2:B:895:VAL:HB	2:B:917:PRO:HG3	1.65	0.77
2:D:617:ASN:HD22	2:F:46:ARG:HH12	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:801:PHE:HA	2:E:391:PHE:HE2	1.48	0.77
2:E:281:ALA:CB	2:E:290:LEU:HD21	2.13	0.77
2:E:704:TRP:O	2:E:704:TRP:CG	2.37	0.77
2:F:130:PRO:HD3	2:F:291:LEU:HD11	1.67	0.77
2:G:148:PRO:HG2	2:H:813:GLN:CG	2.10	0.77
2:H:276:TYR:O	2:H:276:TYR:CD2	2.38	0.77
2:H:876:MET:HE2	2:H:878:PHE:CE1	2.19	0.77
2:H:895:VAL:HG13	2:H:917:PRO:CG	2.13	0.77
2:I:135:TRP:CE2	2:I:288:ALA:HA	2.20	0.77
2:I:382:VAL:HG11	2:I:439:ALA:CA	2.12	0.77
2:J:100:TYR:CD2	2:J:589:TYR:HB2	2.20	0.77
2:J:206:THR:HA	2:J:285:ILE:HD11	1.65	0.77
2:J:916:THR:OG1	2:J:917:PRO:CD	2.33	0.77
2:K:390:CYS:HB2	2:K:433:MET:CB	2.12	0.77
3:M:189:LEU:CA	3:M:193:ARG:HD3	2.13	0.77
5:O:204:LEU:HD22	5:O:207:VAL:HG22	1.65	0.77
2:A:540:PHE:O	2:A:540:PHE:CD2	2.38	0.77
2:C:83:ARG:CB	2:C:555:GLU:HG3	2.12	0.77
2:C:135:TRP:CZ3	2:C:287:SER:HB2	2.20	0.77
2:C:743:MET:CE	2:C:749:ILE:HG12	2.15	0.77
2:D:212:CYS:O	2:D:214:GLY:N	2.17	0.77
2:D:398:ALA:HB2	2:D:426:GLU:HB2	1.66	0.77
2:F:810:ARG:HD3	2:F:810:ARG:H	1.49	0.77
2:H:65:THR:HG21	2:I:711:LEU:HD22	1.63	0.77
2:H:490:TYR:HA	2:H:493:ILE:HD11	1.66	0.77
2:J:100:TYR:CE2	2:J:589:TYR:HB2	2.19	0.77
2:J:160:ILE:HD12	2:J:175:LYS:HE3	1.65	0.77
2:J:224:GLY:HA3	2:K:794:PHE:CD2	2.19	0.77
2:K:384:ASP:OD2	2:K:436:ASN:ND2	2.18	0.77
2:K:417:ASN:OD1	2:K:418:TYR:N	2.18	0.77
2:L:109:ARG:HD3	2:L:113:PHE:HE2	1.49	0.77
2:L:859:THR:HG23	2:L:862:GLY:H	1.49	0.77
2:A:364:ASN:OD1	2:A:519:ARG:HG2	1.84	0.77
2:B:64:LEU:O	2:B:591:ASN:HA	1.84	0.77
2:B:227:ALA:HB1	2:B:240:SER:HB2	1.67	0.77
2:B:348:LEU:HB3	2:B:619:TYR:CD2	2.20	0.77
2:C:266:SER:O	2:C:266:SER:OG	1.96	0.77
2:C:369:SER:O	2:C:513:ASN:HB2	1.85	0.77
2:C:432:ALA:O	2:C:433:MET:CG	2.32	0.77
2:D:302:TYR:N	2:D:569:SER:OG	2.17	0.77
2:E:228:SER:N	2:E:241:ASP:OD2	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:149:PHE:HA	2:F:182:GLN:CB	2.14	0.77
2:H:94:LEU:HD12	2:H:592:PHE:HE1	1.50	0.77
2:H:864:ASN:OD1	2:H:865:MET:N	2.17	0.77
2:J:167:THR:O	2:J:167:THR:HG23	1.85	0.77
2:J:770:ASN:HD21	2:J:841:ARG:HD2	1.50	0.77
2:K:249:LEU:HD23	2:K:257:LYS:HD2	1.67	0.77
2:K:315:TYR:HE1	2:K:539:PHE:HB2	1.50	0.77
2:L:310:ILE:HG21	2:L:343:GLU:HB3	1.66	0.77
3:M:465:THR:HG21	3:M:501:LYS:HZ1	1.50	0.77
5:O:223:ARG:HA	5:O:260:SER:HB3	1.67	0.77
2:A:622:ALA:HB3	2:A:895:VAL:N	1.99	0.77
2:B:114:LYS:HZ3	2:B:298:ASN:HB2	1.50	0.77
2:C:303:ILE:HG22	2:C:303:ILE:O	1.84	0.77
2:C:309:PHE:HD2	2:C:535:VAL:HG22	1.49	0.77
2:C:586:ILE:HG22	2:C:586:ILE:O	1.83	0.77
2:C:774:MET:HE3	2:C:838:LEU:CD1	2.15	0.77
2:D:272:THR:N	2:D:298:ASN:OD1	2.18	0.77
2:D:504:ASN:O	2:D:687:LEU:HD21	1.85	0.77
2:E:317:SER:OG	2:E:665:GLY:O	2.02	0.77
2:E:516:LEU:HD11	2:E:567:GLN:HG2	1.67	0.77
2:E:729:VAL:HG13	2:E:730:ALA:H	1.50	0.77
2:G:143:VAL:C	2:G:145:GLY:N	2.42	0.77
2:G:516:LEU:CA	2:G:519:ARG:HH21	1.98	0.77
2:H:180:GLU:HG2	2:H:180:GLU:O	1.83	0.77
2:H:780:ASN:ND2	2:H:783:THR:OG1	2.18	0.77
2:J:794:PHE:HE1	2:L:224:GLY:CA	1.98	0.77
2:K:268:GLU:HB2	2:K:270:PRO:HD2	1.66	0.77
2:K:564:MET:HG2	2:K:564:MET:O	1.85	0.77
2:L:221:ASN:O	2:L:222:GLU:C	2.28	0.77
2:B:134:GLU:HB2	2:B:205:ASP:HA	1.67	0.77
2:C:210:LEU:HB3	2:C:211:PRO:HD2	1.67	0.77
2:D:356:ARG:HB3	2:D:367:VAL:CG1	2.14	0.77
2:D:413:THR:O	2:D:413:THR:OG1	1.97	0.77
2:E:730:ALA:HB3	2:E:732:CYS:SG	2.25	0.77
2:F:99:THR:OG1	2:F:588:LEU:HD11	1.84	0.77
2:F:704:TRP:O	2:F:704:TRP:CG	2.38	0.77
2:G:59:ASP:OD1	2:G:59:ASP:N	2.17	0.77
2:G:300:PRO:HG3	2:G:511:HIS:ND1	2.00	0.77
2:G:302:TYR:CD2	2:G:517:ARG:HA	2.20	0.77
2:G:447:TYR:HD2	2:H:386:LEU:HD11	1.50	0.77
2:H:282:GLN:HG3	2:H:284:THR:HG22	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:188:TRP:O	2:J:188:TRP:CD2	2.38	0.77
2:J:743:MET:HE3	2:J:749:ILE:HD11	1.66	0.77
2:K:220:THR:C	2:L:788:GLN:HE22	1.93	0.77
2:K:382:VAL:HG11	2:K:439:ALA:CA	2.14	0.77
2:K:549:PRO:HG2	2:K:604:GLU:OE1	1.85	0.77
6:S:10:VAL:HG22	6:S:10:VAL:O	1.85	0.77
2:A:436:ASN:O	2:A:438:ALA:N	2.17	0.76
2:A:617:ASN:HD22	2:A:898:VAL:HA	1.49	0.76
2:A:678:VAL:HG21	2:A:681:LEU:HD12	1.67	0.76
2:A:896:PHE:CD1	2:C:15:ILE:HD11	2.21	0.76
2:G:250:PRO:HA	2:I:421:ARG:HH12	1.50	0.76
2:H:61:SER:HA	2:I:707:ASN:OD1	1.85	0.76
2:I:396:SER:HB3	2:I:430:ILE:HG22	1.65	0.76
2:I:874:LEU:HD12	2:I:875:ASP:N	2.00	0.76
2:K:216:TYR:HB2	2:K:267:ILE:CA	2.12	0.76
2:K:435:ILE:HD11	2:L:390:CYS:SG	2.25	0.76
2:L:685:PHE:O	2:L:841:ARG:N	2.14	0.76
2:L:704:TRP:H	2:L:705:PRO:HD2	1.49	0.76
5:O:206:THR:HG23	5:O:242:LEU:HD11	1.66	0.76
1:1:11:PRO:O	1:1:13:HIS:N	2.18	0.76
2:A:500:ASP:HA	2:A:503:ASP:OD2	1.85	0.76
2:C:208:PRO:HA	2:C:285:ILE:HG12	1.67	0.76
2:D:320:ASN:OD1	2:D:557:ASN:ND2	2.18	0.76
2:G:140:LYS:CD	2:I:419:ALA:H	1.96	0.76
2:H:339:ASP:O	2:H:624:ASN:HB2	1.85	0.76
2:I:442:TRP:HD1	2:I:489:THR:HG22	1.50	0.76
2:J:107:LEU:O	2:J:107:LEU:HD23	1.84	0.76
2:K:356:ARG:HH12	2:K:367:VAL:HA	1.51	0.76
2:L:563:ASN:HD21	2:L:575:ARG:H	1.33	0.76
2:L:720:ARG:HD2	2:L:735:THR:CG2	2.14	0.76
2:B:199:ALA:CA	2:B:259:VAL:HG12	2.06	0.76
2:C:356:ARG:NH2	2:C:356:ARG:H	1.84	0.76
2:C:390:CYS:O	2:C:391:PHE:CG	2.38	0.76
2:C:490:TYR:CE2	2:C:797:ASN:HB3	2.20	0.76
2:D:449:ASN:O	2:D:510:HIS:NE2	2.17	0.76
2:D:548:LEU:HB3	2:D:608:ARG:HH21	1.50	0.76
2:D:905:HIS:O	2:D:908:VAL:HG22	1.86	0.76
2:G:135:TRP:HB2	2:G:287:SER:CA	2.14	0.76
2:G:817:ALA:HB3	2:I:121:TYR:HB3	1.67	0.76
2:H:183:VAL:HG22	2:H:183:VAL:O	1.85	0.76
2:K:784:TYR:HE1	2:K:786:GLU:HG2	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:177:TYR:CG	2:L:177:TYR:O	2.32	0.76
2:B:867:TYR:HH	5:O:63:SER:HG	1.28	0.76
2:C:179:PRO:CG	2:C:201:ARG:HD3	2.14	0.76
2:C:323:VAL:HG12	2:C:555:GLU:HB3	1.66	0.76
2:C:390:CYS:HG	2:C:433:MET:HB2	1.48	0.76
2:D:129:ALA:HB1	2:D:130:PRO:HD2	1.61	0.76
2:D:387:PRO:HB2	2:D:389:TYR:CZ	2.21	0.76
2:D:542:ILE:HD13	2:D:556:TRP:HH2	1.49	0.76
2:D:563:ASN:OD1	2:D:575:ARG:HG3	1.86	0.76
2:E:51:ALA:HB1	2:E:52:PRO:HD2	1.65	0.76
2:E:96:MET:HE3	2:E:99:THR:HG21	1.66	0.76
2:F:173:ALA:HB1	2:F:221:ASN:CG	2.10	0.76
2:H:147:ALA:CB	2:H:198:VAL:HG22	2.15	0.76
2:H:265:VAL:HG12	2:H:266:SER:H	1.49	0.76
2:I:156:LYS:HD2	2:I:246:PHE:HE2	1.51	0.76
2:I:182:GLN:O	2:I:184:GLY:N	2.18	0.76
2:I:209:MET:O	2:I:210:LEU:HD12	1.84	0.76
2:J:354:GLY:O	2:J:763:ARG:NH2	2.17	0.76
2:J:415:ASP:O	2:J:417:ASN:N	2.18	0.76
2:K:213:TYR:O	2:K:213:TYR:CG	2.37	0.76
2:K:335:VAL:HG22	2:K:913:TYR:CD2	2.20	0.76
3:M:198:LEU:N	3:M:201:ASP:OD2	2.18	0.76
2:A:800:GLY:H	2:C:181:PRO:HG2	1.50	0.76
2:B:363:TRP:O	2:B:365:GLN:N	2.17	0.76
2:B:640:ILE:HD12	2:B:641:PRO:HD2	1.66	0.76
2:C:31:PHE:O	2:C:31:PHE:CD2	2.39	0.76
2:C:197:LYS:NZ	2:C:256:PRO:HB3	2.01	0.76
2:C:310:ILE:HG12	2:C:343:GLU:CD	2.09	0.76
2:C:824:ILE:O	2:C:824:ILE:HD12	1.83	0.76
2:D:516:LEU:CA	2:D:519:ARG:HD3	2.14	0.76
2:F:632:ASN:HB2	6:P:10:VAL:HA	1.66	0.76
2:H:187:GLN:CA	2:I:809:MET:SD	2.74	0.76
2:H:435:ILE:HD11	2:I:390:CYS:CA	2.15	0.76
1:4:23:ASN:ND2	2:C:17:GLY:O	2.18	0.76
2:A:36:ASP:OD1	2:A:37:THR:N	2.18	0.76
2:B:94:LEU:HD12	2:B:592:PHE:HE1	1.51	0.76
2:B:770:ASN:O	2:B:839:CYS:SG	2.44	0.76
2:C:705:PRO:HG3	2:C:716:PHE:CE1	2.20	0.76
2:D:746:HIS:CD2	2:D:845:ARG:HH11	2.02	0.76
2:E:137:ASP:CG	2:E:140:LYS:HB2	2.10	0.76
2:F:636:VAL:CG2	2:F:878:PHE:HB2	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:15:ILE:CD1	2:H:896:PHE:HD2	1.98	0.76
2:H:548:LEU:HD23	2:H:903:GLN:NE2	1.99	0.76
2:I:88:VAL:HG11	2:I:547:LEU:HD11	1.67	0.76
2:I:634:THR:HG21	6:S:5:MET:HE2	1.63	0.76
2:J:308:ASN:O	2:J:538:LYS:NZ	2.19	0.76
2:K:218:LYS:HB2	2:K:218:LYS:NZ	2.00	0.76
2:K:710:LEU:HD11	2:K:716:PHE:CD1	2.21	0.76
2:D:125:ALA:HB3	2:E:801:PHE:CE2	2.21	0.76
2:D:406:LYS:HG3	2:D:409:GLY:C	2.11	0.76
2:D:851:ASN:ND2	2:D:855:MET:SD	2.54	0.76
2:E:661:THR:OG1	2:E:662:PRO:HD2	1.85	0.76
2:F:57:THR:N	2:F:596:ALA:HB2	2.01	0.76
2:F:314:TYR:CD2	2:F:320:ASN:HB2	2.20	0.76
2:G:349:MET:HE3	2:G:619:TYR:HB2	1.67	0.76
2:H:151:GLY:CA	2:H:197:LYS:HE2	2.11	0.76
2:H:175:LYS:O	2:H:175:LYS:HD3	1.86	0.76
2:H:176:THR:HB	2:H:177:TYR:CD2	2.21	0.76
2:J:100:TYR:O	2:J:100:TYR:CG	2.37	0.76
2:J:154:ILE:HA	2:J:159:GLY:O	1.86	0.76
2:L:220:THR:CG2	2:L:221:ASN:HB3	2.13	0.76
3:M:73:LYS:CD	3:M:81:ASN:ND2	2.38	0.76
3:M:221:LEU:HD11	3:M:336:ASN:HA	1.65	0.76
6:P:5:MET:HE2	6:R:33:GLN:O	1.85	0.76
2:A:674:TYR:OH	2:A:676:GLY:O	2.01	0.76
2:B:58:THR:CG2	2:B:596:ALA:HA	2.16	0.76
2:B:747:TYR:CE2	2:B:768:PHE:HB2	2.21	0.76
2:C:863:GLN:OE1	2:C:863:GLN:N	2.18	0.76
2:D:88:VAL:HG13	2:D:549:PRO:HA	1.67	0.76
2:D:135:TRP:CZ2	2:D:291:LEU:HD13	2.21	0.76
2:D:191:GLU:HB3	2:D:194:ALA:N	1.98	0.76
2:D:483:VAL:HG21	2:D:805:MET:HG3	1.68	0.76
2:G:897:ASP:OD1	2:G:898:VAL:N	2.19	0.76
2:H:210:LEU:HB3	2:H:211:PRO:CD	2.12	0.76
2:I:204:LYS:HG2	2:I:205:ASP:H	1.50	0.76
2:I:517:ARG:O	2:I:521:MET:HG2	1.83	0.76
2:I:839:CYS:O	2:I:839:CYS:SG	2.40	0.76
2:J:135:TRP:CZ3	2:J:143:VAL:HB	2.20	0.76
2:L:224:GLY:H	2:L:226:GLN:HE21	1.31	0.76
2:A:8:PRO:HG2	2:A:8:PRO:O	1.86	0.76
2:A:242:VAL:HG22	2:A:243:ASN:H	1.51	0.76
2:C:620:LEU:CD2	2:C:622:ALA:HB2	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:313:MET:HB2	2:D:315:TYR:HE1	1.50	0.76
2:D:895:VAL:HA	2:D:917:PRO:HG2	1.68	0.76
2:E:202:VAL:HG23	2:E:260:LEU:HB3	1.68	0.76
2:E:718:ILE:HG12	2:E:738:TRP:CD1	2.21	0.76
2:F:604:GLU:O	2:F:604:GLU:HG3	1.85	0.76
2:G:114:LYS:HE3	2:G:271:ASP:HB2	1.67	0.76
2:G:779:VAL:HG12	2:G:829:VAL:HG21	1.67	0.76
2:H:157:ASP:O	2:H:159:GLY:N	2.17	0.76
2:H:492:ASN:ND2	2:H:497:TRP:HB3	1.98	0.76
2:K:121:TYR:HE2	2:K:217:ALA:HB2	1.49	0.76
2:L:116:TYR:OH	2:L:271:ASP:OD2	2.02	0.76
2:A:709:ARG:HB2	2:A:709:ARG:HH11	1.51	0.76
2:B:715:GLU:N	2:B:715:GLU:OE2	2.18	0.76
2:E:888:LEU:HD23	2:E:888:LEU:N	2.01	0.76
2:H:490:TYR:CA	2:H:493:ILE:HD11	2.16	0.76
2:H:720:ARG:NH2	2:H:723:ASP:HA	2.01	0.76
2:K:24:LEU:HD12	2:K:28:LEU:CD2	2.11	0.76
2:K:858:LEU:HD21	2:K:863:GLN:HB2	1.68	0.76
2:L:176:THR:HG22	2:L:178:GLN:HA	1.68	0.76
2:L:435:ILE:CB	2:L:437:LEU:HD22	2.15	0.76
2:L:563:ASN:OD1	2:L:575:ARG:HB2	1.86	0.76
3:M:222:VAL:CG2	3:M:282:LEU:HA	2.16	0.76
1:8:35:PHE:HA	2:B:619:TYR:O	1.86	0.75
2:A:121:TYR:CD2	2:A:216:TYR:HB2	2.21	0.75
2:A:819:TYR:CD1	2:A:819:TYR:O	2.39	0.75
2:C:603:LEU:O	2:C:603:LEU:HD13	1.85	0.75
2:D:154:ILE:CD1	2:D:197:LYS:HB3	2.15	0.75
2:D:210:LEU:CB	2:D:211:PRO:CD	2.49	0.75
2:D:388:ASN:HD22	2:D:437:LEU:HB2	1.51	0.75
2:D:703:SER:OG	2:D:705:PRO:HD2	1.86	0.75
2:E:198:VAL:HG13	2:E:258:ALA:CB	2.13	0.75
2:E:244:LEU:HD21	2:E:246:PHE:CE1	2.20	0.75
2:E:747:TYR:CE2	2:E:767:PHE:HB3	2.19	0.75
2:F:275:VAL:O	2:F:275:VAL:HG23	1.83	0.75
2:G:447:TYR:HE2	2:G:807:PRO:HB3	1.51	0.75
2:G:653:PHE:O	2:G:654:THR:OG1	2.04	0.75
2:H:124:LEU:HB3	2:I:798:ASN:ND2	2.00	0.75
2:H:865:MET:HE3	4:N:182:LYS:NZ	2.00	0.75
2:I:143:VAL:HG13	2:I:144:ARG:N	1.97	0.75
2:K:276:TYR:CG	2:K:276:TYR:O	2.34	0.75
2:K:315:TYR:OH	2:K:537:GLN:OE1	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:374:VAL:HG11	2:L:449:ASN:HD22	1.51	0.75
4:N:177:VAL:HG11	4:N:179:LYS:HE3	1.68	0.75
2:B:779:VAL:HG23	2:B:829:VAL:HG12	1.68	0.75
2:C:370:TYR:HD1	2:C:370:TYR:N	1.82	0.75
2:C:492:ASN:HD22	2:C:497:TRP:HB3	1.50	0.75
2:F:73:ARG:HB2	2:F:73:ARG:NH1	2.02	0.75
2:F:742:GLN:HA	2:F:742:GLN:OE1	1.84	0.75
2:F:819:TYR:CG	2:F:819:TYR:O	2.38	0.75
2:G:204:LYS:HE2	2:G:264:ASN:HB2	1.68	0.75
2:H:376:ILE:HG22	2:H:376:ILE:O	1.86	0.75
2:I:202:VAL:CG1	2:I:260:LEU:HD23	2.16	0.75
2:J:105:GLY:HA2	2:J:584:ASP:OD2	1.86	0.75
2:J:222:GLU:O	2:J:224:GLY:N	2.19	0.75
2:J:316:ASN:OD1	2:J:342:THR:N	2.18	0.75
3:M:323:SER:OG	3:M:438:GLU:HB3	1.86	0.75
1:4:18:PHE:CD1	1:4:19:MET:HE2	2.21	0.75
2:A:569:SER:C	2:A:570:LEU:HD23	2.12	0.75
2:B:315:TYR:CZ	2:B:538:LYS:HB2	2.21	0.75
2:B:629:ILE:HG12	2:B:636:VAL:CG1	2.16	0.75
2:C:564:MET:HE2	2:C:564:MET:HA	1.69	0.75
2:D:13:MET:CE	2:E:914:LEU:HB3	2.14	0.75
2:D:135:TRP:CZ2	2:D:291:LEU:CD1	2.68	0.75
2:E:809:MET:HA	2:F:389:TYR:CE2	2.21	0.75
2:F:135:TRP:HZ3	2:F:205:ASP:HA	1.49	0.75
2:G:223:LYS:HD3	2:H:794:PHE:CE2	2.20	0.75
2:G:795:GLN:CG	2:G:819:TYR:HB2	2.16	0.75
2:I:113:PHE:CD2	2:I:303:ILE:HB	2.20	0.75
2:J:186:THR:HG22	2:J:186:THR:O	1.86	0.75
2:J:268:GLU:OE2	2:J:268:GLU:N	2.15	0.75
3:M:356:VAL:CG1	3:M:360:THR:OG1	2.35	0.75
5:O:99:ALA:HA	5:O:102:ILE:CG2	2.15	0.75
2:C:154:ILE:CG2	2:C:160:ILE:HA	2.15	0.75
2:C:388:ASN:OD1	2:C:388:ASN:N	2.12	0.75
2:C:610:ASP:CG	2:C:902:HIS:NE2	2.43	0.75
2:D:914:LEU:HD13	2:F:13:MET:HE2	1.69	0.75
2:F:823:LEU:O	2:F:823:LEU:HD23	1.86	0.75
2:G:209:MET:HE3	2:G:290:LEU:O	1.87	0.75
2:H:539:PHE:HE1	2:H:541:ALA:HB3	1.50	0.75
2:H:656:LEU:O	2:H:887:THR:OG1	2.05	0.75
2:J:325:ALA:HB1	2:J:331:LEU:H	1.51	0.75
2:J:332:ASN:CB	4:N:170:GLN:HE21	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:110:GLY:HA3	2:K:578:GLY:O	1.86	0.75
2:K:264:ASN:N	2:K:264:ASN:OD1	2.18	0.75
3:M:247:THR:CG2	3:M:266:GLY:HA2	2.16	0.75
3:M:468:LEU:HD22	3:M:469:ARG:C	2.10	0.75
2:A:44:LYS:HE2	2:B:546:LEU:HB2	1.69	0.75
2:A:348:LEU:O	2:A:348:LEU:HD23	1.85	0.75
2:C:461:THR:OG1	2:C:467:LEU:HD11	1.87	0.75
2:D:654:THR:HG21	2:D:843:MET:HG2	1.67	0.75
2:F:259:VAL:O	2:F:259:VAL:CG1	2.35	0.75
2:F:773:PRO:HG2	2:F:773:PRO:O	1.84	0.75
2:G:52:PRO:HG2	2:G:52:PRO:O	1.84	0.75
2:G:256:PRO:HB3	2:I:412:TRP:CZ3	2.22	0.75
2:H:745:SER:HB3	2:H:847:PRO:HG3	1.67	0.75
2:I:135:TRP:CH2	2:I:291:LEU:HD11	2.22	0.75
2:J:823:LEU:HD22	2:L:526:GLY:HA3	1.67	0.75
2:J:850:SER:OG	2:L:57:THR:HG21	1.87	0.75
2:K:347:GLN:HE22	2:K:682:ASP:HA	1.51	0.75
2:K:629:ILE:HD11	2:K:636:VAL:HG11	1.69	0.75
1:8:27:THR:HG22	2:A:48:PRO:CG	2.14	0.75
2:B:249:LEU:CB	2:B:250:PRO:HD2	2.15	0.75
2:D:430:ILE:O	2:F:810:ARG:NH2	2.19	0.75
2:E:50:VAL:O	2:E:50:VAL:HG13	1.86	0.75
2:E:94:LEU:HD11	2:E:590:ALA:CB	2.16	0.75
2:E:376:ILE:HG23	2:E:774:MET:CE	2.15	0.75
2:E:447:TYR:CE1	2:E:482:ALA:HB3	2.21	0.75
2:E:747:TYR:OH	2:E:768:PHE:N	2.18	0.75
2:F:155:ASN:HB2	2:F:158:ASN:HA	1.68	0.75
2:H:210:LEU:CB	2:H:211:PRO:HD2	2.13	0.75
2:K:135:TRP:CZ3	2:K:289:ASP:CA	2.64	0.75
2:K:333:ALA:O	2:K:913:TYR:OH	2.05	0.75
3:M:89:PHE:CE2	3:M:91:THR:CG2	2.69	0.75
2:A:779:VAL:CG1	2:A:829:VAL:HG21	2.16	0.75
2:A:791:THR:O	2:A:791:THR:OG1	1.98	0.75
2:B:371:ASP:HB3	2:B:374:VAL:HG22	1.68	0.75
2:B:570:LEU:HD23	2:B:570:LEU:O	1.86	0.75
2:C:129:ALA:HB1	2:C:130:PRO:CD	2.17	0.75
2:C:905:HIS:HB2	2:C:908:VAL:CG1	2.16	0.75
2:C:914:LEU:HD23	2:C:915:ARG:N	2.02	0.75
2:D:292:THR:HA	2:F:188:TRP:CZ3	2.21	0.75
2:F:314:TYR:HA	2:F:559:ARG:NH2	2.02	0.75
2:F:386:LEU:HB2	2:F:387:PRO:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:713:PRO:CG	2:J:318:THR:HB	2.16	0.75
2:G:19:ASP:OD1	2:G:20:ALA:N	2.18	0.75
2:H:151:GLY:H	2:H:197:LYS:HB3	1.50	0.75
2:H:376:ILE:HG12	2:H:774:MET:HE1	1.69	0.75
2:H:882:PRO:HG3	6:Q:48:ALA:O	1.86	0.75
2:I:204:LYS:HB2	2:I:262:ALA:HB1	1.69	0.75
2:J:117:SER:O	2:J:117:SER:OG	2.03	0.75
2:J:366:ALA:HB3	2:J:519:ARG:HD3	1.69	0.75
2:J:617:ASN:HB2	2:L:46:ARG:NH1	2.02	0.75
2:J:914:LEU:HD23	2:L:13:MET:CG	2.17	0.75
2:K:430:ILE:O	2:K:430:ILE:HG13	1.84	0.75
2:L:822:PRO:O	2:L:828:ALA:HA	1.87	0.75
3:M:208:THR:O	3:M:231:ALA:HA	1.86	0.75
1:8:16:ARG:HB3	2:C:47:ASN:ND2	2.01	0.75
2:B:445:PHE:O	2:B:445:PHE:CD1	2.39	0.75
2:B:899:VAL:HG13	2:B:913:TYR:CD1	2.22	0.75
2:D:22:GLU:N	2:D:22:GLU:OE2	2.18	0.75
2:F:177:TYR:O	2:F:177:TYR:CD1	2.36	0.75
2:F:687:LEU:CD1	2:F:883:MET:HE1	2.17	0.75
2:I:66:LEU:HD12	2:I:592:PHE:CE2	2.22	0.75
2:I:779:VAL:HG12	2:I:829:VAL:CG2	2.15	0.75
2:J:188:TRP:CB	2:K:809:MET:HE1	2.17	0.75
2:J:704:TRP:CD2	2:J:705:PRO:HD3	2.19	0.75
3:M:343:TRP:NE1	3:M:356:VAL:HG11	1.99	0.75
5:O:251:THR:HG23	5:O:254:SER:OG	1.85	0.75
2:A:603:LEU:CD2	2:A:607:LEU:HD12	2.17	0.75
2:B:330:GLN:HE21	2:B:330:GLN:HA	1.51	0.75
2:B:756:VAL:HG23	2:B:768:PHE:CE2	2.22	0.75
2:C:96:MET:HE1	2:C:324:LEU:HD21	1.68	0.75
2:D:25:SER:N	2:E:612:ASN:HD21	1.85	0.75
2:D:356:ARG:HB2	2:D:764:MET:SD	2.27	0.75
2:D:914:LEU:HD23	2:D:915:ARG:N	2.01	0.75
2:F:654:THR:HG21	2:F:685:PHE:HD2	1.48	0.75
2:H:217:ALA:HB1	2:H:265:VAL:CG1	2.17	0.75
2:J:94:LEU:HD12	2:J:592:PHE:HE1	1.49	0.75
2:K:335:VAL:HG11	7:T:32:ASN:ND2	2.00	0.75
2:K:345:SER:HG	2:K:620:LEU:H	1.34	0.75
2:K:379:ASN:ND2	2:K:493:ILE:HA	2.02	0.75
2:L:548:LEU:HD23	2:L:903:GLN:OE1	1.87	0.75
3:M:73:LYS:HD2	3:M:81:ASN:HD21	1.51	0.75
3:M:177:ILE:HD11	3:M:234:PRO:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:160:ILE:HD11	2:B:259:VAL:HG11	1.67	0.74
2:C:356:ARG:HG2	2:C:367:VAL:HB	1.68	0.74
2:D:119:THR:HB	2:D:213:TYR:HE1	1.52	0.74
2:E:96:MET:HG3	2:E:99:THR:HG21	1.68	0.74
2:E:525:ASN:HD22	2:F:495:ALA:HB2	1.51	0.74
2:G:732:CYS:SG	2:G:734:MET:HB3	2.26	0.74
2:I:326:GLY:HA3	2:I:907:GLY:O	1.87	0.74
2:I:845:ARG:O	2:I:846:ILE:HG13	1.86	0.74
2:J:13:MET:HG3	2:K:914:LEU:HD13	1.67	0.74
2:J:403:SER:HB2	2:J:420:ASP:HA	1.69	0.74
2:J:425:ILE:N	2:K:143:VAL:HG11	2.02	0.74
2:K:210:LEU:HB2	2:K:211:PRO:CD	2.15	0.74
5:O:255:THR:HG21	5:O:266:ILE:HD12	1.68	0.74
6:R:32:ARG:HH21	6:R:32:ARG:CG	2.00	0.74
7:U:20:ALA:O	7:U:21:ALA:HB2	1.86	0.74
1:1:16:ARG:HA	1:1:16:ARG:HE	1.52	0.74
2:A:447:TYR:HD2	2:B:386:LEU:CD2	1.99	0.74
2:A:537:GLN:HE22	2:A:542:ILE:HB	1.51	0.74
2:B:793:PRO:HB2	2:B:794:PHE:CD1	2.22	0.74
2:C:352:ALA:CB	2:C:353:LEU:HD12	2.16	0.74
2:C:371:ASP:O	2:C:373:ASP:N	2.17	0.74
2:D:119:THR:HB	2:D:213:TYR:CE1	2.23	0.74
2:D:120:ALA:C	2:D:121:TYR:HD1	1.96	0.74
2:E:525:ASN:ND2	2:F:495:ALA:HB2	2.02	0.74
2:E:916:THR:O	2:E:918:PHE:N	2.19	0.74
2:F:154:ILE:HG21	2:F:259:VAL:HG21	1.67	0.74
2:F:180:GLU:CG	2:F:181:PRO:CD	2.53	0.74
2:F:213:TYR:O	2:F:213:TYR:CD2	2.39	0.74
2:F:307:ASP:HB2	2:F:519:ARG:HH12	1.50	0.74
2:F:858:LEU:O	2:F:858:LEU:HD23	1.87	0.74
2:G:727:TYR:O	2:G:736:LYS:HG3	1.87	0.74
2:I:723:ASP:OD1	2:I:726:GLY:N	2.19	0.74
2:J:433:MET:HE1	2:K:433:MET:HG2	1.69	0.74
2:J:516:LEU:HD12	2:J:519:ARG:NH2	2.01	0.74
2:K:470:ASN:OD1	2:K:473:THR:N	2.19	0.74
2:L:563:ASN:HD21	2:L:575:ARG:N	1.85	0.74
3:M:391:SER:OG	3:M:396:ASN:O	2.05	0.74
3:M:466:LEU:HG	3:M:467:PRO:CD	2.16	0.74
2:A:697:MET:HE1	2:A:700:SER:H	1.52	0.74
2:B:227:ALA:O	2:B:228:SER:OG	2.04	0.74
2:C:107:LEU:H	2:C:531:PHE:HE1	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:154:ILE:HG12	2:C:154:ILE:O	1.87	0.74
2:D:201:ARG:HH11	2:D:201:ARG:HG2	1.53	0.74
2:D:696:ILE:O	2:D:703:SER:HA	1.87	0.74
2:D:762:ASP:OD2	2:D:769:ARG:HG2	1.86	0.74
2:E:67:ARG:HG3	2:E:589:TYR:CE1	2.22	0.74
2:E:356:ARG:NH1	2:E:367:VAL:HG12	2.01	0.74
2:F:62:GLN:OE1	2:F:597:HIS:NE2	2.20	0.74
2:F:644:ASN:O	2:F:646:ALA:N	2.20	0.74
2:G:146:GLN:NE2	2:H:814:ALA:HB3	2.01	0.74
2:H:371:ASP:HB3	2:H:374:VAL:CG2	2.17	0.74
2:I:67:ARG:HD2	2:I:589:TYR:OH	1.86	0.74
2:I:127:LYS:HE3	2:I:213:TYR:HE2	1.53	0.74
2:I:151:GLY:N	2:I:197:LYS:HB3	2.01	0.74
2:I:309:PHE:HD2	2:I:535:VAL:HG22	1.50	0.74
2:I:360:PHE:CD1	2:I:360:PHE:O	2.40	0.74
2:I:517:ARG:HG2	2:I:521:MET:HE2	1.70	0.74
2:J:463:ASP:OD1	2:J:464:ASN:N	2.20	0.74
2:K:252:THR:HG23	2:K:253:PRO:HD3	1.68	0.74
2:L:316:ASN:ND2	2:L:340:ARG:HB2	2.01	0.74
2:L:654:THR:CG2	2:L:688:ASN:HB3	2.14	0.74
2:A:25:SER:HB3	5:O:24:SER:HA	1.69	0.74
2:B:661:THR:CB	2:B:662:PRO:HD2	2.03	0.74
2:C:103:ILE:HG12	2:C:586:ILE:HD11	1.70	0.74
2:D:432:ALA:HB2	2:F:810:ARG:HE	1.52	0.74
2:D:447:TYR:O	2:D:452:LEU:HD13	1.87	0.74
2:E:694:VAL:HG12	2:E:878:PHE:CD1	2.22	0.74
2:E:885:GLU:HG2	2:E:886:PRO:HD2	0.74	0.74
2:F:714:ASN:ND2	2:J:338:GLN:OE1	2.20	0.74
2:G:302:TYR:CE2	2:G:517:ARG:HA	2.22	0.74
2:H:433:MET:HB2	2:I:391:PHE:O	1.88	0.74
2:I:309:PHE:CE2	2:I:533:ILE:HB	2.22	0.74
2:J:28:LEU:N	2:K:606:MET:HE1	2.02	0.74
2:L:573:ASP:OD2	2:L:673:THR:HB	1.87	0.74
2:L:661:THR:CG2	2:L:680:TYR:HB2	2.13	0.74
6:Q:25:LEU:HD12	6:Q:26:PRO:CD	2.18	0.74
2:A:437:LEU:HD22	2:A:437:LEU:O	1.88	0.74
2:B:131:ASN:CG	2:B:212:CYS:HB3	2.12	0.74
2:B:651:TRP:HE1	2:B:876:MET:HE1	1.51	0.74
2:C:46:ARG:HD3	2:C:47:ASN:H	1.53	0.74
2:D:655:ARG:HH22	2:D:883:MET:HB2	1.53	0.74
2:E:384:ASP:OD2	2:E:436:ASN:ND2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:382:VAL:HG12	2:F:384:ASP:H	1.51	0.74
2:H:274:LEU:N	2:H:274:LEU:HD12	2.03	0.74
2:H:657:LYS:HD3	2:H:686:TYR:OH	1.87	0.74
2:I:895:VAL:HG12	2:I:917:PRO:CB	2.18	0.74
2:J:101:PHE:CE2	2:J:554:TYR:HE2	2.06	0.74
2:J:188:TRP:O	2:J:188:TRP:CE3	2.40	0.74
2:K:402:TYR:HE2	2:L:145:GLY:HA3	1.53	0.74
2:K:622:ALA:CA	2:K:895:VAL:HG22	2.16	0.74
2:A:337:LEU:HD12	2:A:340:ARG:NH1	2.02	0.74
2:B:299:ARG:HD3	2:B:453:TYR:CE1	2.22	0.74
2:B:460:ILE:O	2:B:460:ILE:HG23	1.87	0.74
2:B:691:PHE:CD1	2:B:880:VAL:HG22	2.22	0.74
2:B:721:THR:CG2	2:B:733:ASN:HB2	2.18	0.74
2:D:401:THR:HG21	2:D:425:ILE:HG21	1.69	0.74
2:E:549:PRO:HG2	2:E:604:GLU:HG3	1.69	0.74
2:G:816:PRO:HA	2:I:215:SER:HB2	1.70	0.74
2:I:377:ILE:CG2	2:I:499:PRO:HD3	2.18	0.74
2:I:647:ALA:H	2:I:917:PRO:HG3	1.52	0.74
2:K:213:TYR:HE2	2:K:297:PRO:HB3	1.52	0.74
2:K:521:MET:CE	2:L:495:ALA:HA	2.18	0.74
2:L:272:THR:HG21	2:L:295:ALA:HB1	1.70	0.74
3:M:356:VAL:HG13	3:M:360:THR:OG1	1.86	0.74
2:A:895:VAL:CB	2:A:917:PRO:HG2	2.17	0.74
2:B:249:LEU:CD2	2:B:257:LYS:HD2	2.17	0.74
2:B:779:VAL:HG13	2:B:787:TYR:HE2	1.53	0.74
2:C:447:TYR:O	2:C:447:TYR:CD1	2.39	0.74
2:C:490:TYR:CE2	2:C:797:ASN:CB	2.71	0.74
2:C:516:LEU:CD2	2:C:569:SER:HB2	2.18	0.74
2:C:606:MET:HE3	7:T:177:LEU:HD13	1.70	0.74
2:D:249:LEU:HA	2:F:402:TYR:HD1	1.51	0.74
2:D:466:THR:C	2:D:467:LEU:HD12	2.12	0.74
2:D:778:VAL:HG22	2:D:779:VAL:H	1.53	0.74
2:E:94:LEU:HD12	2:E:592:PHE:HE1	1.52	0.74
2:E:524:GLY:HA3	2:F:777:GLN:HE22	1.51	0.74
2:F:180:GLU:CD	2:F:181:PRO:CD	2.61	0.74
2:F:299:ARG:HH21	2:F:570:LEU:HD11	1.52	0.74
2:F:337:LEU:HD11	4:N:191:LYS:HZ2	1.52	0.74
2:G:160:ILE:O	2:G:170:PRO:HD3	1.88	0.74
2:G:256:PRO:O	2:G:257:LYS:CD	2.35	0.74
2:G:749:ILE:HD11	2:G:755:TYR:CD1	2.23	0.74
2:H:521:MET:HG3	2:I:496:ARG:HB2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:198:VAL:O	2:I:258:ALA:HA	1.87	0.74
2:J:636:VAL:O	2:J:636:VAL:HG13	1.88	0.74
2:K:67:ARG:HB2	2:K:589:TYR:CE1	2.22	0.74
2:K:410:GLN:O	2:L:254:ASN:HA	1.88	0.74
2:L:454:LEU:HD23	2:L:455:PRO:CD	2.17	0.74
2:B:114:LYS:HE2	2:B:299:ARG:O	1.88	0.74
2:B:497:TRP:CZ3	2:B:774:MET:HE3	2.23	0.74
2:C:235:ASP:O	2:C:259:VAL:HG23	1.86	0.74
2:D:205:ASP:OD1	2:D:205:ASP:N	2.14	0.74
2:D:274:LEU:HD21	2:D:293:GLN:HB3	1.67	0.74
2:E:377:ILE:HG22	2:E:497:TRP:O	1.87	0.74
2:E:647:ALA:H	2:E:917:PRO:HG3	1.53	0.74
2:F:71:VAL:HG22	2:F:83:ARG:O	1.87	0.74
2:F:819:TYR:O	2:F:819:TYR:CD2	2.41	0.74
2:G:545:LEU:HD12	2:G:546:LEU:H	1.52	0.74
2:G:889:LEU:HD23	2:G:891:VAL:HG23	1.68	0.74
2:H:387:PRO:HB2	2:H:389:TYR:CE2	2.23	0.74
2:H:401:THR:HA	2:H:424:GLU:HG3	1.69	0.74
2:H:436:ASN:HD22	2:H:439:ALA:HB3	1.51	0.74
2:H:660:GLU:OE1	2:H:686:TYR:OH	2.05	0.74
2:H:725:GLU:HB3	2:H:727:TYR:CE1	2.22	0.74
2:I:135:TRP:CE2	2:I:143:VAL:HG11	2.23	0.74
2:I:623:ALA:HB3	2:I:893:PHE:HB2	1.69	0.74
2:I:655:ARG:HH22	2:I:883:MET:HB3	1.53	0.74
2:J:125:ALA:CB	2:K:801:PHE:HE2	1.99	0.74
2:J:382:VAL:CG1	2:J:439:ALA:HB2	2.08	0.74
2:J:403:SER:H	2:K:248:ALA:HB3	1.52	0.74
2:J:647:ALA:HB3	2:J:916:THR:HG21	1.68	0.74
7:U:92:PRO:HB2	7:U:93:ARG:HG3	1.68	0.74
2:B:641:PRO:HB2	3:M:99:PHE:CE1	2.23	0.74
2:D:228:SER:O	2:D:241:ASP:N	2.21	0.74
2:E:533:ILE:CG2	2:E:535:VAL:HG13	2.18	0.74
2:F:114:LYS:HB2	2:F:114:LYS:HZ3	1.51	0.74
2:F:690:THR:O	2:F:691:PHE:HD1	1.70	0.74
2:G:55:ASP:N	2:G:55:ASP:OD1	2.18	0.74
2:G:349:MET:HE2	2:G:619:TYR:HB2	1.69	0.74
2:G:351:ASP:O	2:G:353:LEU:N	2.21	0.74
2:H:390:CYS:HB2	2:H:433:MET:O	1.86	0.74
2:J:197:LYS:HB2	2:J:197:LYS:HZ3	1.50	0.74
2:J:424:GLU:O	2:J:426:GLU:N	2.21	0.74
2:K:202:VAL:N	2:K:261:TYR:CE1	2.56	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:1:MET:HE3	6:R:39:ASN:CA	2.18	0.74
1:5:18:PHE:N	1:5:19:MET:SD	2.61	0.74
2:A:356:ARG:NE	2:A:367:VAL:HG22	2.03	0.74
2:C:10:TRP:O	2:C:15:ILE:HG22	1.88	0.74
2:C:343:GLU:O	2:C:343:GLU:CG	2.35	0.74
2:C:727:TYR:N	2:C:727:TYR:CD1	2.48	0.74
2:D:223:LYS:HB2	2:D:223:LYS:HZ3	1.50	0.74
2:D:589:TYR:OH	2:E:726:GLY:O	2.05	0.74
2:D:707:ASN:ND2	2:F:59:ASP:O	2.18	0.74
2:F:135:TRP:HE1	2:F:287:SER:HA	1.53	0.74
2:F:400:ASP:OD1	2:F:400:ASP:N	2.16	0.74
2:F:596:ALA:O	2:F:598:ASN:N	2.21	0.74
2:I:173:ALA:HA	2:I:176:THR:HG22	1.69	0.74
2:J:154:ILE:O	2:J:155:ASN:OD1	2.06	0.74
2:J:843:MET:HE1	2:J:892:LEU:CD2	2.18	0.74
2:K:402:TYR:HA	2:L:249:LEU:HA	1.68	0.74
2:K:643:ARG:HD3	7:T:28:SER:HB3	1.69	0.74
1:7:11:PRO:N	2:G:621:CYS:HG	1.85	0.73
2:C:104:ARG:HG3	2:C:104:ARG:NH1	1.99	0.73
2:C:180:GLU:H	2:C:180:GLU:CD	1.94	0.73
2:C:654:THR:HG22	2:C:655:ARG:H	1.53	0.73
2:D:83:ARG:HA	2:D:555:GLU:HB2	1.70	0.73
2:D:377:ILE:HD13	2:D:450:VAL:HG21	1.70	0.73
2:E:655:ARG:HH22	2:E:883:MET:CB	1.97	0.73
2:F:332:ASN:OD1	2:F:333:ALA:N	2.21	0.73
2:F:382:VAL:CG2	2:F:439:ALA:HA	2.18	0.73
2:G:250:PRO:HD3	2:I:402:TYR:HE1	1.53	0.73
2:G:268:GLU:O	2:G:269:ALA:HB2	1.88	0.73
2:H:110:GLY:CA	2:H:527:ARG:HH12	1.99	0.73
2:H:155:ASN:C	2:H:157:ASP:N	2.40	0.73
2:H:483:VAL:HG21	2:H:805:MET:CE	2.18	0.73
2:H:662:PRO:HD3	2:H:678:VAL:HG21	1.69	0.73
2:H:800:GLY:HA3	2:H:813:GLN:O	1.88	0.73
2:I:151:GLY:H	2:I:197:LYS:CB	1.97	0.73
2:J:371:ASP:O	2:J:374:VAL:HG12	1.88	0.73
2:K:210:LEU:HB3	2:K:211:PRO:HD3	0.77	0.73
2:K:435:ILE:CG2	2:K:437:LEU:HD12	2.17	0.73
3:M:209:ARG:CD	3:M:229:ASN:OD1	2.34	0.73
7:U:90:LEU:HD13	7:U:174:TYR:HE1	1.53	0.73
2:A:471:LYS:HG2	2:A:476:TYR:CE2	2.22	0.73
2:A:786:GLU:HB3	2:A:788:GLN:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:810:ARG:NE	2:B:430:ILE:O	2.20	0.73
2:B:521:MET:HE1	2:C:380:HIS:CE1	2.23	0.73
2:B:529:VAL:CB	2:C:777:GLN:NE2	2.51	0.73
2:C:346:TYR:HB3	2:C:538:LYS:HZ1	1.51	0.73
2:D:138:ASN:ND2	2:D:138:ASN:H	1.86	0.73
2:D:226:GLN:N	2:D:226:GLN:OE1	2.21	0.73
2:E:218:LYS:HE3	2:E:220:THR:HG22	1.69	0.73
2:E:346:TYR:CG	2:E:538:LYS:HG2	2.22	0.73
2:G:49:THR:O	2:G:49:THR:OG1	1.91	0.73
2:G:176:THR:HG21	2:G:201:ARG:HG3	1.69	0.73
2:H:160:ILE:HB	2:H:197:LYS:CD	2.16	0.73
2:J:107:LEU:HD13	2:J:305:PHE:HE1	1.53	0.73
2:J:135:TRP:HH2	2:J:143:VAL:HB	1.52	0.73
2:K:10:TRP:CE2	7:U:17:MET:HE1	2.24	0.73
2:K:13:MET:HE2	2:L:912:VAL:HG12	1.69	0.73
2:K:28:LEU:HD22	2:L:612:ASN:OD1	1.87	0.73
2:K:210:LEU:CB	2:K:211:PRO:HD2	2.15	0.73
3:M:189:LEU:HA	3:M:193:ARG:HD3	1.62	0.73
5:O:118:VAL:O	5:O:120:ALA:N	2.21	0.73
5:O:209:LEU:HD23	5:O:211:GLN:H	1.53	0.73
7:T:5:ILE:HG22	7:T:5:ILE:O	1.88	0.73
1:8:30:LEU:HD12	1:8:31:ASN:N	2.03	0.73
2:A:337:LEU:HD12	2:A:340:ARG:HH12	1.54	0.73
2:C:275:VAL:HG22	2:C:275:VAL:O	1.88	0.73
2:D:453:TYR:CE2	2:D:510:HIS:HA	2.23	0.73
2:D:697:MET:HE3	2:D:700:SER:CA	2.18	0.73
2:D:788:GLN:NE2	2:F:221:ASN:N	2.36	0.73
2:E:744:LEU:HD21	2:E:751:TYR:CZ	2.23	0.73
2:E:892:LEU:O	2:E:892:LEU:HD23	1.88	0.73
2:F:178:GLN:OE1	2:F:201:ARG:HB2	1.87	0.73
2:F:278:PRO:HG3	2:F:290:LEU:HA	1.68	0.73
2:F:349:MET:HA	2:F:619:TYR:HD2	1.53	0.73
2:F:659:LYS:NZ	2:F:885:GLU:OE1	2.20	0.73
2:G:337:LEU:O	2:G:339:ASP:N	2.21	0.73
2:G:481:VAL:HG21	2:G:807:PRO:CG	2.18	0.73
2:G:534:GLN:HE22	2:H:729:VAL:C	1.96	0.73
2:H:406:LYS:HB3	2:I:156:LYS:NZ	2.01	0.73
2:H:483:VAL:HG21	2:H:805:MET:HE1	1.69	0.73
2:I:154:ILE:HA	2:I:159:GLY:O	1.87	0.73
2:I:417:ASN:OD1	2:I:417:ASN:N	2.19	0.73
2:J:46:ARG:HH21	2:K:898:VAL:HG11	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:144:ARG:HG3	2:J:144:ARG:HH21	1.53	0.73
2:J:405:ILE:CA	2:J:412:TRP:HA	2.18	0.73
2:K:126:PRO:HG2	2:K:129:ALA:CB	2.18	0.73
2:K:433:MET:HE3	2:K:434:GLU:N	2.04	0.73
2:K:889:LEU:HD12	2:K:890:TYR:H	1.52	0.73
2:L:497:TRP:CH2	2:L:836:LYS:HE2	2.24	0.73
6:Q:19:PRO:O	6:R:23:THR:HG22	1.88	0.73
2:A:88:VAL:HG11	2:A:548:LEU:O	1.88	0.73
2:C:572:ASN:OD1	2:C:572:ASN:N	2.14	0.73
2:D:133:CYS:SG	2:D:209:MET:HG3	2.28	0.73
2:D:306:ARG:HE	2:D:567:GLN:HB2	1.54	0.73
2:E:217:ALA:HB3	2:E:226:GLN:CG	2.18	0.73
2:E:747:TYR:N	2:E:747:TYR:CD2	2.56	0.73
2:F:895:VAL:HG12	2:F:917:PRO:HG2	1.68	0.73
2:H:292:THR:O	2:H:292:THR:OG1	2.06	0.73
2:H:509:ASN:ND2	2:H:676:GLY:HA3	2.03	0.73
2:H:732:CYS:SG	2:H:734:MET:N	2.58	0.73
2:I:777:GLN:OE1	2:I:833:THR:HA	1.87	0.73
2:K:46:ARG:HH11	2:K:46:ARG:HG2	1.52	0.73
2:K:367:VAL:HG21	2:K:764:MET:CE	2.19	0.73
2:K:744:LEU:CD1	2:K:853:MET:HG3	2.18	0.73
2:K:781:THR:HG22	2:K:787:TYR:CE2	2.17	0.73
3:M:132:ILE:O	3:M:132:ILE:HG22	1.87	0.73
2:B:204:LYS:HB2	2:B:263:GLU:N	2.03	0.73
2:B:693:LYS:CB	2:B:879:GLU:CD	2.57	0.73
2:B:769:ARG:HH11	2:B:769:ARG:HG3	1.54	0.73
2:B:858:LEU:O	2:B:858:LEU:HD23	1.89	0.73
2:C:457:SER:C	2:C:459:LYS:N	2.42	0.73
2:C:582:ARG:CB	2:C:584:ASP:H	2.00	0.73
2:C:767:PHE:HE1	2:C:771:PHE:HB2	1.53	0.73
2:D:348:LEU:O	2:D:348:LEU:HD23	1.88	0.73
2:E:149:PHE:C	2:E:149:PHE:CD1	2.65	0.73
2:F:26:PRO:O	2:F:30:GLN:HG2	1.87	0.73
2:F:313:MET:O	2:F:556:TRP:NE1	2.13	0.73
2:G:10:TRP:O	2:G:15:ILE:HG22	1.88	0.73
2:G:51:ALA:HB1	2:G:52:PRO:CD	2.17	0.73
2:G:315:TYR:OH	2:G:538:LYS:HG2	1.87	0.73
2:G:334:VAL:O	2:G:334:VAL:HG13	1.88	0.73
2:G:386:LEU:H	2:G:386:LEU:CD1	2.01	0.73
2:G:622:ALA:HB1	2:G:892:LEU:HG	1.69	0.73
2:H:300:PRO:O	2:H:300:PRO:HG2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:382:VAL:HG12	2:H:384:ASP:H	1.54	0.73
2:I:140:LYS:C	2:I:141:ILE:HG12	2.13	0.73
2:I:176:THR:C	2:I:178:GLN:H	1.97	0.73
2:J:655:ARG:HH21	2:J:883:MET:CG	2.01	0.73
2:K:218:LYS:HB2	2:K:218:LYS:HZ3	1.52	0.73
3:M:274:LEU:HD21	3:M:356:VAL:HG21	1.69	0.73
3:M:330:LEU:HD21	3:M:335:GLN:HG2	1.70	0.73
2:A:10:TRP:CE3	2:B:866:LEU:HG	2.23	0.73
2:A:62:GLN:OE1	2:A:594:PRO:HA	1.88	0.73
2:A:297:PRO:CG	2:B:385:GLU:HG3	2.19	0.73
2:B:182:GLN:HA	2:C:811:GLU:HG3	1.70	0.73
2:C:593:PHE:O	2:C:595:MET:N	2.22	0.73
2:D:220:THR:HA	2:E:788:GLN:HG3	1.69	0.73
2:D:680:TYR:CD1	2:D:890:TYR:HE2	2.05	0.73
2:E:287:SER:HB2	2:E:290:LEU:CD1	2.19	0.73
2:F:111:PRO:CD	2:F:527:ARG:HH21	1.99	0.73
2:F:902:HIS:ND1	2:F:902:HIS:O	2.22	0.73
2:G:906:ARG:HG2	2:G:906:ARG:NH1	1.98	0.73
2:H:593:PHE:HD1	2:H:594:PRO:HD2	1.54	0.73
2:I:150:ILE:CG2	2:I:197:LYS:HD2	2.18	0.73
2:I:279:ASP:HA	2:I:464:ASN:ND2	2.02	0.73
2:I:371:ASP:O	2:I:374:VAL:HG12	1.87	0.73
2:J:349:MET:HE2	2:J:543:LYS:NZ	2.04	0.73
2:J:639:SER:O	2:J:640:ILE:HD13	1.87	0.73
2:J:740:LEU:HD23	2:J:740:LEU:O	1.88	0.73
6:P:55:TYR:CZ	6:P:57:THR:HB	2.23	0.73
7:U:28:SER:O	7:U:29:SER:OG	2.04	0.73
1:5:18:PHE:CD1	1:5:18:PHE:C	2.59	0.73
2:A:608:ARG:HH11	2:A:608:ARG:HG2	1.53	0.73
2:A:777:GLN:HE22	2:C:526:GLY:H	1.37	0.73
2:B:497:TRP:CZ3	2:B:774:MET:HB3	2.22	0.73
2:C:296:ALA:CB	2:C:297:PRO:HD2	2.10	0.73
2:C:729:VAL:HB	2:C:736:LYS:HG2	1.70	0.73
2:D:124:LEU:HB2	2:E:798:ASN:ND2	2.03	0.73
2:D:694:VAL:HG13	2:D:716:PHE:HB2	1.70	0.73
2:E:642:SER:H	2:E:873:ALA:HB2	1.53	0.73
2:E:836:LYS:HG2	2:E:837:PHE:H	1.54	0.73
2:F:18:GLN:HB3	2:F:22:GLU:OE2	1.89	0.73
2:F:104:ARG:HH11	2:F:104:ARG:HB3	1.53	0.73
2:G:256:PRO:HA	2:I:412:TRP:HZ3	1.52	0.73
2:I:135:TRP:HA	2:I:135:TRP:HE3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:593:PHE:HD1	2:I:594:PRO:HD2	1.54	0.73
2:J:387:PRO:HB2	2:J:389:TYR:CZ	2.24	0.73
2:K:135:TRP:HB2	2:K:141:ILE:N	2.03	0.73
2:K:242:VAL:HG12	2:K:263:GLU:HG2	1.71	0.73
2:K:813:GLN:HG2	2:K:814:ALA:H	1.53	0.73
2:L:323:VAL:HA	2:L:334:VAL:HG12	1.71	0.73
2:L:344:LEU:CD2	2:L:620:LEU:HD22	2.19	0.73
2:L:649:ARG:HB2	2:L:894:GLU:HB3	1.71	0.73
2:L:874:LEU:HD23	2:L:875:ASP:N	2.03	0.73
3:M:132:ILE:HD13	3:M:166:LEU:CD1	2.17	0.73
5:O:215:ASN:O	5:O:215:ASN:CG	2.30	0.73
1:4:23:ASN:OD1	2:C:19:ASP:N	2.22	0.73
2:A:80:TYR:O	2:A:557:ASN:HA	1.88	0.73
2:B:222:GLU:O	2:B:222:GLU:HG3	1.89	0.73
2:B:693:LYS:HD3	2:B:879:GLU:OE1	1.88	0.73
2:C:439:ALA:O	2:C:442:TRP:N	2.18	0.73
2:C:631:SER:HA	2:C:886:PRO:HG3	1.71	0.73
2:C:641:PRO:HG3	2:K:637:PRO:HG3	1.70	0.73
2:C:747:TYR:O	2:C:749:ILE:N	2.21	0.73
2:D:356:ARG:HB3	2:D:367:VAL:HG11	1.69	0.73
2:D:403:SER:HB2	2:D:413:THR:HG23	1.70	0.73
2:D:611:THR:HG23	2:D:612:ASN:OD1	1.88	0.73
2:E:198:VAL:CG1	2:E:258:ALA:HB2	2.15	0.73
2:E:608:ARG:NH1	2:E:903:GLN:O	2.22	0.73
2:E:817:ALA:O	2:E:818:ASN:HB3	1.87	0.73
2:F:294:GLN:O	2:F:295:ALA:HB2	1.89	0.73
2:I:274:LEU:HD21	2:I:293:GLN:HE21	1.54	0.73
2:I:652:SER:O	2:I:892:LEU:HB2	1.89	0.73
2:I:815:TYR:CD2	2:I:816:PRO:HD2	2.24	0.73
2:J:69:VAL:HG23	2:J:70:PRO:HD2	1.71	0.73
2:J:224:GLY:HA3	2:K:794:PHE:HB3	1.68	0.73
2:L:9:GLN:HE21	4:N:173:MET:HE1	1.52	0.73
2:L:350:LEU:HB2	2:L:356:ARG:HD3	1.70	0.73
2:L:514:ALA:O	2:L:517:ARG:HB2	1.88	0.73
2:L:639:SER:O	2:L:640:ILE:HD13	1.88	0.73
2:L:746:HIS:CD2	2:L:845:ARG:HD3	2.23	0.73
3:M:132:ILE:O	3:M:139:ASN:HB2	1.87	0.73
5:O:119:GLN:HG2	5:O:119:GLN:O	1.88	0.73
5:O:223:ARG:CA	5:O:260:SER:HB3	2.17	0.73
5:O:282:THR:O	5:O:286:ILE:HG12	1.88	0.73
6:S:10:VAL:O	6:S:10:VAL:HG13	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:485:SER:HB3	2:B:792:LEU:HD11	1.69	0.73
2:B:526:GLY:CA	2:C:777:GLN:OE1	2.36	0.73
2:C:508:PHE:CE2	2:C:684:THR:HB	2.23	0.73
2:C:562:VAL:HG21	2:C:579:ALA:CB	2.19	0.73
2:D:19:ASP:N	2:D:22:GLU:OE1	2.22	0.73
2:D:177:TYR:HH	2:E:800:GLY:N	1.85	0.73
2:D:405:ILE:HG23	2:D:412:TRP:O	1.89	0.73
2:E:154:ILE:CD1	2:E:256:PRO:HB2	2.14	0.73
2:E:916:THR:OG1	2:E:917:PRO:CD	2.30	0.73
2:G:922:ASN:OD1	2:G:922:ASN:N	2.17	0.73
2:H:244:LEU:HD12	2:H:244:LEU:N	2.04	0.73
2:J:447:TYR:CE1	2:J:452:LEU:HD11	2.23	0.73
2:J:729:VAL:HG23	2:L:534:GLN:HE21	1.54	0.73
2:K:434:GLU:HB3	2:L:391:PHE:O	1.89	0.73
2:K:711:LEU:HD13	2:K:737:ASP:OD2	1.89	0.73
3:M:376:TRP:NE1	3:M:403:GLU:OE1	2.20	0.73
7:T:12:SER:HB3	7:T:21:ALA:O	1.89	0.73
2:A:453:TYR:CE2	2:A:510:HIS:HA	2.24	0.73
2:A:493:ILE:HG12	2:C:116:TYR:CD1	2.24	0.73
2:B:336:ASP:OD1	2:B:336:ASP:N	2.19	0.73
2:B:672:PHE:O	2:B:672:PHE:CD2	2.41	0.73
2:B:695:SER:HG	2:B:877:THR:HG1	0.74	0.73
2:B:863:GLN:HA	2:B:866:LEU:CD1	2.16	0.73
2:C:154:ILE:HD13	2:C:197:LYS:HD2	1.71	0.73
2:C:278:PRO:HG3	2:C:290:LEU:O	1.88	0.73
2:D:20:ALA:O	2:D:24:LEU:HD23	1.88	0.73
2:D:655:ARG:NH2	2:D:883:MET:HB2	2.04	0.73
2:D:796:HIS:CG	2:F:179:PRO:HB3	2.23	0.73
2:E:72:ASP:HB3	2:E:83:ARG:HB3	1.71	0.73
2:E:730:ALA:O	2:E:732:CYS:N	2.22	0.73
2:G:704:TRP:O	2:G:704:TRP:CD1	2.42	0.73
2:H:94:LEU:HD12	2:H:592:PHE:CE1	2.23	0.73
2:J:178:GLN:O	2:J:178:GLN:CG	2.33	0.73
2:L:174:ASP:C	2:L:176:THR:N	2.44	0.73
3:M:189:LEU:C	3:M:193:ARG:HD3	2.13	0.73
2:A:644:ASN:OD1	2:A:645:TRP:N	2.22	0.72
2:B:144:ARG:HB3	2:B:144:ARG:NH2	2.02	0.72
2:B:744:LEU:HD13	2:B:750:GLY:HA3	1.70	0.72
2:C:744:LEU:O	2:C:744:LEU:CG	2.37	0.72
2:E:167:THR:OG1	2:E:169:GLN:HG2	1.88	0.72
2:E:209:MET:CE	2:E:290:LEU:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:671:TYR:OH	6:Q:47:PRO:HA	1.89	0.72
2:G:299:ARG:HG3	2:G:299:ARG:HH11	1.53	0.72
2:G:481:VAL:CG2	2:G:807:PRO:HG3	2.19	0.72
2:G:743:MET:O	2:G:749:ILE:HG22	1.89	0.72
2:I:187:GLN:C	2:I:189:ASN:N	2.47	0.72
2:I:313:MET:HG2	2:I:558:PHE:HE1	1.53	0.72
2:I:729:VAL:HB	2:I:736:LYS:HA	1.70	0.72
2:J:114:LYS:HZ1	2:J:298:ASN:H	1.37	0.72
2:J:400:ASP:H	2:J:426:GLU:CG	2.02	0.72
2:J:433:MET:CE	2:K:433:MET:HG2	2.19	0.72
2:L:435:ILE:HB	2:L:437:LEU:CD2	2.19	0.72
2:L:875:ASP:OD1	2:L:876:MET:N	2.21	0.72
2:B:306:ARG:HA	2:B:519:ARG:NH1	2.04	0.72
2:B:874:LEU:HD12	2:B:874:LEU:H	1.53	0.72
2:C:522:LEU:O	2:C:522:LEU:HD23	1.89	0.72
2:E:188:TRP:HB3	2:E:191:GLU:HB2	1.71	0.72
2:E:810:ARG:CZ	2:E:810:ARG:HB3	2.20	0.72
2:G:112:SER:HA	2:G:474:TYR:CD2	2.25	0.72
2:G:256:PRO:O	2:G:257:LYS:CG	2.37	0.72
2:G:311:GLY:O	2:G:313:MET:N	2.19	0.72
2:G:762:ASP:OD2	2:G:769:ARG:HG3	1.89	0.72
2:H:316:ASN:OD1	2:H:341:ASN:HA	1.89	0.72
2:H:341:ASN:ND2	2:H:344:LEU:HB3	2.04	0.72
2:I:149:PHE:O	2:I:150:ILE:HD13	1.89	0.72
2:L:176:THR:HG22	2:L:178:GLN:N	2.04	0.72
2:L:468:PRO:HG2	2:L:475:ALA:HB3	1.70	0.72
2:A:617:ASN:OD1	2:C:46:ARG:NH2	2.23	0.72
2:B:210:LEU:HB3	2:B:211:PRO:CD	2.20	0.72
2:B:215:SER:HB2	2:C:816:PRO:HB3	1.71	0.72
2:C:392:PRO:HG2	2:C:392:PRO:O	1.88	0.72
2:E:249:LEU:CD2	2:E:257:LYS:HG2	2.20	0.72
2:E:447:TYR:CA	2:E:451:ALA:HB3	2.17	0.72
2:E:573:ASP:O	2:E:576:VAL:HG12	1.89	0.72
2:E:762:ASP:O	2:E:769:ARG:NH2	2.23	0.72
2:F:188:TRP:CD1	2:F:188:TRP:O	2.42	0.72
2:F:640:ILE:HD11	2:H:700:SER:CB	2.20	0.72
2:G:256:PRO:O	2:G:257:LYS:HG2	1.89	0.72
2:G:273:HIS:HB3	2:G:298:ASN:ND2	2.00	0.72
2:G:813:GLN:HE21	2:I:148:PRO:CD	2.02	0.72
2:H:209:MET:HG2	2:H:209:MET:O	1.88	0.72
2:H:497:TRP:HH2	2:H:834:GLN:HB2	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:643:ARG:C	2:H:871:ALA:HB1	2.14	0.72
2:I:916:THR:O	2:I:918:PHE:N	2.22	0.72
2:J:414:ALA:O	2:J:417:ASN:HA	1.89	0.72
2:J:433:MET:SD	2:K:390:CYS:CB	2.76	0.72
2:J:815:TYR:CD2	2:J:816:PRO:HD2	2.25	0.72
2:K:7:MET:HE2	7:U:185:ARG:HD2	1.71	0.72
2:K:220:THR:CA	2:L:788:GLN:HE22	2.02	0.72
2:K:433:MET:HE1	2:L:391:PHE:C	2.13	0.72
2:K:906:ARG:O	2:K:906:ARG:HD3	1.89	0.72
7:T:34:LEU:H	7:T:34:LEU:HD12	1.54	0.72
7:T:69:LEU:H	7:T:69:LEU:HD12	1.55	0.72
2:A:729:VAL:HB	2:A:736:LYS:HG2	1.71	0.72
2:B:317:SER:O	2:B:319:GLY:N	2.16	0.72
2:B:792:LEU:H	2:B:793:PRO:HD2	1.52	0.72
2:C:543:LYS:HG3	2:C:544:ASN:OD1	1.88	0.72
2:C:599:THR:HG23	2:C:599:THR:O	1.88	0.72
2:D:107:LEU:HD22	2:D:109:ARG:CG	2.18	0.72
2:D:390:CYS:HA	2:F:435:ILE:HD13	1.71	0.72
2:D:718:ILE:HG12	2:D:738:TRP:CD1	2.24	0.72
2:E:171:ILE:HG23	2:E:175:LYS:HZ3	1.55	0.72
2:E:201:ARG:H	2:F:813:GLN:HE22	1.38	0.72
2:E:211:PRO:CG	2:E:295:ALA:HB2	2.19	0.72
2:F:337:LEU:CD2	4:N:191:LYS:HZ2	2.03	0.72
2:F:386:LEU:HB2	2:F:387:PRO:CD	2.18	0.72
2:F:467:LEU:CD1	2:F:479:GLY:HA3	2.14	0.72
2:F:608:ARG:HH12	2:F:905:HIS:C	1.97	0.72
2:F:625:MET:HB2	2:F:891:VAL:CG1	2.18	0.72
2:G:94:LEU:C	2:G:94:LEU:HD12	2.15	0.72
2:G:146:GLN:HA	2:I:426:GLU:OE1	1.89	0.72
2:H:758:GLU:HG3	2:H:760:TYR:CE2	2.24	0.72
2:I:356:ARG:O	2:I:367:VAL:HG21	1.88	0.72
2:I:515:GLY:O	2:I:519:ARG:HG3	1.90	0.72
2:I:851:ASN:OD1	2:I:853:MET:HB2	1.88	0.72
2:J:467:LEU:HD21	2:J:479:GLY:HA3	1.72	0.72
2:J:488:ASP:H	2:J:491:VAL:HG12	1.53	0.72
2:J:791:THR:OG1	2:J:794:PHE:HB3	1.89	0.72
2:J:795:GLN:CD	2:J:819:TYR:HB2	2.14	0.72
2:J:889:LEU:HD23	2:J:890:TYR:N	2.04	0.72
2:K:404:GLY:C	2:K:413:THR:HG22	2.14	0.72
3:M:73:LYS:CD	3:M:81:ASN:OD1	2.37	0.72
3:M:136:MET:HE1	3:M:372:GLN:CG	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:67:GLU:OE1	5:O:67:GLU:HA	1.90	0.72
2:B:545:LEU:HD13	2:B:901:ILE:HD13	1.70	0.72
2:C:537:GLN:OE1	2:C:538:LYS:N	2.22	0.72
2:C:876:MET:HE2	2:C:878:PHE:CE1	2.23	0.72
2:D:13:MET:CE	2:E:914:LEU:HD23	2.18	0.72
2:D:71:VAL:HG21	2:D:85:THR:CG2	2.19	0.72
2:D:803:GLY:HA2	2:D:809:MET:O	1.89	0.72
2:E:188:TRP:N	2:E:191:GLU:H	1.87	0.72
2:E:454:LEU:HB3	2:E:455:PRO:HD2	1.72	0.72
2:F:309:PHE:CE2	2:F:533:ILE:HD12	2.24	0.72
2:G:820:PRO:HB2	2:I:121:TYR:CE1	2.25	0.72
2:H:296:ALA:CB	2:H:297:PRO:CD	2.49	0.72
2:I:46:ARG:HH11	2:I:46:ARG:HG3	1.54	0.72
2:I:810:ARG:CG	2:I:810:ARG:O	2.36	0.72
2:J:290:LEU:O	2:J:293:GLN:NE2	2.17	0.72
2:J:437:LEU:O	2:J:437:LEU:CG	2.31	0.72
2:K:24:LEU:HD23	2:K:24:LEU:H	1.55	0.72
2:K:243:ASN:ND2	2:K:243:ASN:H	1.86	0.72
2:K:323:VAL:CG2	2:K:555:GLU:HB3	2.19	0.72
2:K:539:PHE:O	2:K:543:LYS:HB3	1.89	0.72
2:L:312:LEU:HD12	2:L:565:ILE:HG22	1.69	0.72
2:L:512:ARG:HA	2:L:517:ARG:HH21	1.54	0.72
2:A:356:ARG:HE	2:A:367:VAL:CG2	2.02	0.72
2:A:655:ARG:NH1	2:A:883:MET:HE2	2.05	0.72
2:B:246:PHE:CA	2:B:258:ALA:HB3	2.20	0.72
2:B:337:LEU:O	2:B:339:ASP:N	2.23	0.72
2:C:332:ASN:OD1	2:C:334:VAL:N	2.22	0.72
2:C:503:ASP:OD2	2:C:836:LYS:NZ	2.23	0.72
2:D:424:GLU:HA	2:E:144:ARG:NE	2.05	0.72
2:D:654:THR:CG2	2:D:843:MET:HG2	2.19	0.72
2:F:595:MET:CG	2:F:600:ALA:HB2	2.19	0.72
2:H:128:THR:HG22	2:H:128:THR:O	1.87	0.72
2:H:153:ASN:H	2:H:197:LYS:NZ	1.88	0.72
2:H:297:PRO:HG2	2:I:385:GLU:CG	2.20	0.72
2:H:792:LEU:N	2:H:793:PRO:HD3	1.92	0.72
2:J:164:THR:CG2	2:J:168:ASN:CG	2.61	0.72
2:J:332:ASN:CB	4:N:170:GLN:HE22	1.98	0.72
2:J:915:ARG:HH11	2:J:915:ARG:HB2	1.54	0.72
2:K:117:SER:OG	2:L:382:VAL:O	2.06	0.72
2:L:917:PRO:HB2	2:L:918:PHE:CD1	2.24	0.72
7:T:13:TYR:HE2	7:T:191:THR:HG22	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:17:PRO:HG2	1:1:17:PRO:O	1.89	0.72
2:A:84:PHE:CD2	2:A:588:LEU:HB2	2.24	0.72
2:B:623:ALA:HB2	2:B:915:ARG:NH2	2.03	0.72
2:C:627:TYR:CD2	2:C:638:ILE:HG21	2.24	0.72
2:E:658:THR:HG23	2:E:659:LYS:H	1.54	0.72
2:G:777:GLN:HE21	2:G:833:THR:HG22	1.55	0.72
2:H:64:LEU:HB3	2:I:709:ARG:O	1.89	0.72
2:H:158:ASN:H	2:H:158:ASN:HD22	1.36	0.72
2:H:348:LEU:HB3	2:H:619:TYR:CE2	2.23	0.72
2:H:652:SER:OG	2:H:892:LEU:HD12	1.89	0.72
2:J:210:LEU:HD13	2:J:269:ALA:HB2	1.69	0.72
7:U:66:ARG:HG3	7:U:66:ARG:HH11	1.53	0.72
1:8:15:SER:O	1:8:16:ARG:HB3	1.89	0.72
1:8:28:SER:HB2	2:A:19:ASP:OD2	1.90	0.72
2:A:704:TRP:CB	2:A:705:PRO:HD2	2.10	0.72
2:B:688:ASN:ND2	2:B:842:THR:O	2.23	0.72
2:C:446:LEU:O	2:C:448:SER:N	2.23	0.72
2:D:129:ALA:CB	2:D:130:PRO:HD3	1.97	0.72
2:D:726:GLY:HA2	2:F:104:ARG:HH21	1.55	0.72
2:E:747:TYR:HE1	2:E:762:ASP:HB2	1.53	0.72
2:F:634:THR:CG2	2:F:882:PRO:HG3	2.18	0.72
2:G:7:MET:O	2:G:10:TRP:HB2	1.89	0.72
2:G:375:ARG:HH11	2:G:375:ARG:CG	2.03	0.72
2:G:563:ASN:ND2	2:G:575:ARG:HG3	2.01	0.72
2:G:742:GLN:NE2	2:G:845:ARG:H	1.79	0.72
2:H:215:SER:HB2	2:I:816:PRO:HA	1.71	0.72
2:H:485:SER:HA	2:H:490:TYR:OH	1.90	0.72
2:H:916:THR:HB	2:H:917:PRO:HD3	1.70	0.72
2:I:10:TRP:CD1	2:I:15:ILE:HG21	2.24	0.72
2:J:116:TYR:O	2:J:116:TYR:CD1	2.42	0.72
2:J:152:THR:O	2:J:161:GLN:HB2	1.89	0.72
2:J:309:PHE:HE1	2:J:364:ASN:HB2	1.55	0.72
2:J:410:GLN:HA	2:J:410:GLN:OE1	1.89	0.72
2:J:516:LEU:HA	2:J:519:ARG:NH2	2.04	0.72
2:J:874:LEU:HD23	2:J:875:ASP:N	2.04	0.72
2:L:643:ARG:HH11	2:L:643:ARG:HG3	1.54	0.72
2:A:751:TYR:HE2	2:C:594:PRO:HD2	1.55	0.72
2:B:246:PHE:HA	2:B:258:ALA:CB	2.20	0.72
2:B:792:LEU:N	2:B:793:PRO:HD2	2.03	0.72
2:C:16:ALA:HA	2:C:48:PRO:HB2	1.70	0.72
2:C:704:TRP:O	2:C:704:TRP:CE3	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:759:SER:C	2:C:761:LYS:N	2.44	0.72
2:D:313:MET:HB2	2:D:315:TYR:CE1	2.24	0.72
2:F:221:ASN:O	2:F:223:LYS:N	2.22	0.72
2:F:279:ASP:N	2:F:279:ASP:OD1	2.23	0.72
2:F:497:TRP:CE3	2:F:776:ARG:HG2	2.24	0.72
2:G:314:TYR:CE1	2:G:559:ARG:HD3	2.25	0.72
2:G:346:TYR:O	2:G:349:MET:N	2.22	0.72
2:G:367:VAL:O	2:G:367:VAL:HG13	1.89	0.72
2:H:269:ALA:N	2:H:270:PRO:CD	2.42	0.72
2:I:316:ASN:HD22	2:I:342:THR:HG22	1.54	0.72
2:J:447:TYR:HE1	2:K:385:GLU:HB3	1.54	0.72
2:J:790:VAL:HG22	2:L:226:GLN:NE2	2.05	0.72
2:K:252:THR:N	2:K:253:PRO:HD2	2.04	0.72
2:K:447:TYR:CD2	2:L:386:LEU:HD11	2.25	0.72
2:L:279:ASP:OD1	2:L:464:ASN:ND2	2.21	0.72
2:L:388:ASN:HD22	2:L:437:LEU:HB2	1.55	0.72
5:O:70:VAL:O	5:O:70:VAL:HG13	1.88	0.72
5:O:223:ARG:N	5:O:260:SER:HB3	2.04	0.72
6:R:32:ARG:HE	6:R:33:GLN:HE21	1.37	0.72
1:8:27:THR:HG23	2:A:17:GLY:O	1.90	0.72
2:A:688:ASN:HD22	2:A:844:TRP:CD1	2.07	0.72
2:D:376:ILE:HG12	2:D:774:MET:CE	2.18	0.72
2:D:746:HIS:NE2	2:D:845:ARG:HG2	2.05	0.72
2:F:516:LEU:HA	2:F:519:ARG:HG2	1.72	0.72
2:G:56:VAL:O	2:G:56:VAL:HG13	1.90	0.72
2:I:143:VAL:CG1	2:I:144:ARG:H	1.96	0.72
2:I:310:ILE:HG21	2:I:681:LEU:CD1	2.17	0.72
2:J:144:ARG:HG3	2:J:144:ARG:NH2	2.04	0.72
2:J:858:LEU:HD21	2:J:863:GLN:HG2	1.71	0.72
2:K:103:ILE:HD13	2:K:312:LEU:HD23	1.72	0.72
2:K:220:THR:CA	2:L:788:GLN:NE2	2.53	0.72
2:L:693:LYS:HD3	2:L:715:GLU:OE2	1.90	0.72
2:L:895:VAL:HG12	2:L:917:PRO:HG2	1.72	0.72
4:N:182:LYS:NZ	4:N:184:GLU:OE1	2.23	0.72
2:A:114:LYS:NZ	2:A:271:ASP:HB3	2.05	0.71
2:A:657:LYS:HG3	2:A:686:TYR:OH	1.90	0.71
2:A:709:ARG:CB	2:A:709:ARG:CZ	2.68	0.71
2:B:51:ALA:HB2	2:C:856:GLY:H	1.54	0.71
2:C:569:SER:OG	2:C:569:SER:O	1.95	0.71
2:C:774:MET:HE3	2:C:838:LEU:HD13	1.71	0.71
2:D:16:ALA:HB2	2:E:858:LEU:HD22	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:453:TYR:HE2	2:D:510:HIS:HA	1.55	0.71
2:D:610:ASP:HB2	2:D:902:HIS:NE2	2.05	0.71
2:E:792:LEU:N	2:E:793:PRO:CD	2.53	0.71
2:F:126:PRO:O	2:F:128:THR:N	2.22	0.71
2:F:127:LYS:HB2	2:F:127:LYS:NZ	2.04	0.71
2:F:127:LYS:HB2	2:F:127:LYS:HZ3	1.55	0.71
2:F:545:LEU:HD13	2:F:901:ILE:HD12	1.71	0.71
2:G:37:THR:HG23	2:G:38:TYR:HD1	1.54	0.71
2:H:315:TYR:OH	2:H:538:LYS:N	2.18	0.71
2:H:320:ASN:HB3	2:H:557:ASN:HD22	1.53	0.71
2:H:343:GLU:CG	2:H:681:LEU:HD12	2.20	0.71
2:H:379:ASN:ND2	2:H:493:ILE:HA	2.03	0.71
2:H:447:TYR:O	2:H:451:ALA:HB3	1.90	0.71
2:I:376:ILE:HG12	2:I:774:MET:HE1	1.72	0.71
2:I:617:ASN:OD1	2:I:618:ASP:N	2.22	0.71
2:J:131:ASN:O	2:J:132:PRO:C	2.33	0.71
2:K:629:ILE:HB	2:K:887:THR:HG23	1.72	0.71
2:K:780:ASN:OD1	2:K:832:LEU:HD23	1.89	0.71
2:K:810:ARG:HD3	2:L:432:ALA:HB3	1.71	0.71
2:L:72:ASP:OD1	2:L:73:ARG:N	2.23	0.71
2:L:126:PRO:HG2	2:L:129:ALA:CB	2.20	0.71
6:P:10:VAL:HG11	6:Q:17:PHE:CB	2.18	0.71
2:B:468:PRO:HD2	2:B:476:TYR:HD1	1.54	0.71
2:B:729:VAL:HB	2:B:736:LYS:CB	2.15	0.71
2:B:895:VAL:CG2	2:B:917:PRO:HB3	2.19	0.71
2:C:810:ARG:O	2:C:810:ARG:CG	2.33	0.71
2:C:821:TYR:CB	2:C:822:PRO:HD3	2.20	0.71
2:D:316:ASN:HA	2:D:336:ASP:OD2	1.90	0.71
2:F:843:MET:HE1	2:F:892:LEU:HD12	1.72	0.71
2:G:135:TRP:N	2:G:135:TRP:CE3	2.56	0.71
2:H:889:LEU:HD12	2:H:890:TYR:H	1.55	0.71
2:I:453:TYR:CE2	2:I:510:HIS:HA	2.24	0.71
2:I:588:LEU:HD23	2:I:589:TYR:H	1.51	0.71
2:I:882:PRO:HG3	6:S:6:GLU:O	1.90	0.71
2:J:209:MET:HE1	2:J:291:LEU:HD23	1.71	0.71
2:K:253:PRO:O	2:K:255:GLU:N	2.23	0.71
2:K:693:LYS:HE2	2:K:715:GLU:OE1	1.90	0.71
2:K:744:LEU:HD11	2:K:853:MET:HG3	1.71	0.71
2:L:466:THR:O	2:L:467:LEU:HD22	1.91	0.71
3:M:225:GLY:O	3:M:226:VAL:HG23	1.90	0.71
4:N:170:GLN:O	4:N:172:THR:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:53:PHE:CE1	5:O:61:ARG:HG2	2.25	0.71
1:0:29:MET:N	1:0:29:MET:SD	2.57	0.71
2:A:46:ARG:NH1	2:B:898:VAL:HG13	2.05	0.71
2:B:15:ILE:HG12	2:C:896:PHE:CD2	2.26	0.71
2:B:128:THR:O	2:B:128:THR:HG22	1.90	0.71
2:B:653:PHE:CE2	2:B:738:TRP:HH2	2.08	0.71
2:B:658:THR:O	2:B:661:THR:N	2.23	0.71
2:C:96:MET:CE	2:C:324:LEU:HD21	2.19	0.71
2:C:346:TYR:CD1	2:C:346:TYR:O	2.42	0.71
2:D:347:GLN:OE1	2:D:682:ASP:HA	1.90	0.71
2:E:171:ILE:HG23	2:E:175:LYS:NZ	2.04	0.71
2:E:743:MET:CE	2:E:749:ILE:HG13	2.21	0.71
2:F:178:GLN:CB	2:F:179:PRO:HD3	2.13	0.71
2:G:18:GLN:HG3	2:G:23:TYR:HB3	1.72	0.71
2:G:226:GLN:NE2	2:H:817:ALA:O	2.21	0.71
2:G:784:TYR:CE2	2:G:829:VAL:HG12	2.24	0.71
2:H:153:ASN:OD1	2:H:161:GLN:HB2	1.90	0.71
2:H:334:VAL:HA	2:H:913:TYR:OH	1.90	0.71
2:H:399:THR:HG23	2:H:424:GLU:HG2	1.72	0.71
2:I:323:VAL:HG12	2:I:332:ASN:HB3	1.70	0.71
2:I:448:SER:OG	2:I:449:ASN:OD1	2.08	0.71
2:J:143:VAL:O	2:J:143:VAL:HG13	1.89	0.71
2:K:211:PRO:HG2	2:K:211:PRO:O	1.90	0.71
2:L:274:LEU:HD22	2:L:293:GLN:HB3	1.73	0.71
3:M:356:VAL:O	3:M:360:THR:OG1	2.07	0.71
2:A:270:PRO:HB2	2:A:271:ASP:OD1	1.89	0.71
2:A:366:ALA:HB1	2:A:515:GLY:HA2	1.72	0.71
2:A:530:PRO:HD2	2:B:833:THR:CG2	2.19	0.71
2:A:539:PHE:O	2:A:541:ALA:N	2.20	0.71
2:C:352:ALA:O	2:C:354:GLY:N	2.24	0.71
2:D:15:ILE:HG23	2:E:896:PHE:CD2	2.25	0.71
2:D:359:TYR:HE2	2:D:515:GLY:HA2	1.56	0.71
2:D:525:ASN:HB2	2:E:495:ALA:CB	2.19	0.71
2:D:658:THR:HG22	2:D:658:THR:O	1.89	0.71
2:E:83:ARG:HA	2:E:555:GLU:HG2	1.72	0.71
2:E:388:ASN:HB2	2:E:435:ILE:O	1.91	0.71
2:E:435:ILE:HD11	2:F:390:CYS:CB	2.21	0.71
2:E:545:LEU:HD12	2:E:546:LEU:N	2.05	0.71
2:F:292:THR:HG22	2:F:292:THR:O	1.89	0.71
2:F:323:VAL:CG2	2:F:555:GLU:HG2	2.19	0.71
2:I:302:TYR:HD2	2:I:517:ARG:HA	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:356:ARG:NH1	2:I:367:VAL:HG22	2.05	0.71
2:J:144:ARG:HH12	2:J:200:GLY:HA3	1.54	0.71
2:J:175:LYS:HG3	2:J:176:THR:HG23	1.71	0.71
2:K:435:ILE:CD1	2:L:390:CYS:HA	2.20	0.71
2:K:910:GLU:HG2	7:T:36:ALA:HA	1.71	0.71
2:L:245:GLN:HB3	2:L:247:PHE:CE1	2.26	0.71
3:M:53:ILE:HG13	3:M:111:PHE:HD1	1.55	0.71
5:O:147:SER:HB2	5:O:180:VAL:CG2	2.19	0.71
5:O:195:TYR:CD2	5:O:209:LEU:HD11	2.24	0.71
7:U:90:LEU:HD13	7:U:174:TYR:CE1	2.25	0.71
1:8:16:ARG:HD3	1:8:18:PHE:N	2.06	0.71
2:A:263:GLU:CB	2:A:265:VAL:HG13	2.21	0.71
2:B:35:THR:HG22	2:B:35:THR:O	1.90	0.71
2:B:848:PHE:CZ	2:B:861:LEU:CB	2.73	0.71
2:C:512:ARG:NH1	2:C:517:ARG:HH12	1.88	0.71
2:D:252:THR:O	2:D:254:ASN:N	2.22	0.71
2:D:565:ILE:HD11	2:D:581:VAL:HG21	1.72	0.71
2:F:306:ARG:CB	2:F:310:ILE:HG12	2.21	0.71
2:F:447:TYR:CE1	2:F:452:LEU:HD21	2.25	0.71
2:F:660:GLU:OE1	2:F:686:TYR:OH	2.08	0.71
2:H:280:VAL:O	2:H:280:VAL:HG13	1.89	0.71
2:H:345:SER:OG	2:H:618:ASP:OD1	2.03	0.71
2:I:73:ARG:HH11	2:I:73:ARG:HG2	1.56	0.71
2:I:314:TYR:HE1	2:I:559:ARG:HG3	1.55	0.71
2:I:496:ARG:HH11	2:I:496:ARG:HG3	1.53	0.71
2:I:866:LEU:O	2:I:866:LEU:HD23	1.89	0.71
2:J:671:TYR:OH	6:P:5:MET:N	2.22	0.71
2:K:54:HIS:CD2	7:U:225:VAL:HG21	2.26	0.71
2:K:135:TRP:HD1	2:K:141:ILE:HB	1.55	0.71
2:L:115:PRO:HA	2:L:302:TYR:CD1	2.25	0.71
3:M:73:LYS:CE	3:M:81:ASN:CB	2.68	0.71
3:M:145:LEU:HB3	3:M:162:PHE:HE1	1.54	0.71
3:M:322:ASP:N	3:M:326:ARG:O	2.17	0.71
2:A:221:ASN:O	2:A:224:GLY:N	2.23	0.71
2:B:188:TRP:CD1	2:B:188:TRP:O	2.44	0.71
2:B:289:ASP:O	2:B:291:LEU:N	2.23	0.71
2:B:299:ARG:HD3	2:B:453:TYR:HE1	1.55	0.71
2:D:435:ILE:HB	2:D:437:LEU:HD11	1.70	0.71
2:D:488:ASP:OD1	2:D:489:THR:HG22	1.90	0.71
2:E:300:PRO:O	2:E:570:LEU:HD11	1.89	0.71
2:E:588:LEU:HD12	2:E:589:TYR:N	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:914:LEU:HD13	7:T:106:ALA:CB	2.20	0.71
2:F:113:PHE:O	2:F:113:PHE:CD2	2.43	0.71
2:F:171:ILE:HG23	2:F:171:ILE:O	1.91	0.71
2:F:324:LEU:O	2:F:324:LEU:HD23	1.89	0.71
2:F:707:ASN:O	2:F:708:ASP:HB2	1.89	0.71
2:G:386:LEU:HD11	2:I:447:TYR:HB3	1.70	0.71
2:G:712:THR:HG1	2:G:713:PRO:HD3	1.49	0.71
2:G:916:THR:HB	2:G:917:PRO:HD2	0.73	0.71
2:H:121:TYR:OH	2:I:822:PRO:HB3	1.89	0.71
2:H:545:LEU:HD12	2:H:546:LEU:N	2.06	0.71
2:I:407:ALA:O	2:I:409:GLY:N	2.24	0.71
2:J:388:ASN:OD1	2:J:388:ASN:N	2.19	0.71
2:J:437:LEU:HD13	2:K:437:LEU:CD2	2.20	0.71
2:J:848:PHE:CE2	2:J:861:LEU:HB3	2.25	0.71
2:K:410:GLN:NE2	2:L:256:PRO:HG3	2.06	0.71
4:N:182:LYS:HD3	4:N:184:GLU:OE1	1.91	0.71
7:U:17:MET:HE2	7:U:17:MET:HA	1.73	0.71
2:B:120:ALA:HB2	2:C:493:ILE:HD13	1.71	0.71
2:B:207:THR:CG2	2:B:265:VAL:H	1.90	0.71
2:B:303:ILE:HG22	2:B:304:GLY:H	1.54	0.71
2:B:344:LEU:O	2:B:345:SER:C	2.33	0.71
2:B:573:ASP:HB3	2:B:576:VAL:HG23	1.72	0.71
2:B:627:TYR:HE2	2:B:638:ILE:HD12	1.55	0.71
2:D:444:SER:HA	2:D:447:TYR:HE1	1.56	0.71
2:D:447:TYR:HA	2:D:451:ALA:HB3	1.71	0.71
2:D:525:ASN:HB2	2:E:495:ALA:HB2	1.73	0.71
2:D:792:LEU:O	2:D:795:GLN:HB3	1.91	0.71
2:D:889:LEU:O	2:D:891:VAL:HG23	1.90	0.71
2:E:314:TYR:CD2	2:E:320:ASN:HB2	2.26	0.71
2:F:484:PRO:HD2	2:F:805:MET:O	1.91	0.71
2:G:276:TYR:O	2:G:276:TYR:CG	2.41	0.71
2:G:824:ILE:HD11	2:I:116:TYR:CZ	2.26	0.71
2:H:792:LEU:H	2:H:793:PRO:HD2	1.50	0.71
2:J:48:PRO:HG2	2:J:48:PRO:O	1.90	0.71
2:J:651:TRP:CD1	2:J:876:MET:HE1	2.25	0.71
2:K:107:LEU:HD23	2:K:108:ASP:N	2.06	0.71
2:K:513:ASN:O	2:K:517:ARG:HB2	1.91	0.71
2:K:635:SER:HA	2:K:878:PHE:O	1.91	0.71
2:L:487:LEU:HA	2:L:491:VAL:HG21	1.72	0.71
4:N:175:LEU:CG	4:N:176:MET:CE	2.64	0.71
5:O:194:ASP:N	5:O:194:ASP:OD1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:30:LEU:O	1:8:32:GLY:N	2.24	0.71
2:A:268:GLU:OE2	2:A:268:GLU:N	2.23	0.71
2:A:647:ALA:HB2	2:C:10:TRP:CZ2	2.25	0.71
2:C:314:TYR:CZ	2:C:320:ASN:ND2	2.58	0.71
2:C:445:PHE:CD1	2:C:445:PHE:O	2.44	0.71
2:C:597:HIS:CB	7:T:93:ARG:NH2	2.50	0.71
2:D:432:ALA:HB2	2:F:810:ARG:HH21	1.56	0.71
2:D:525:ASN:CA	2:E:495:ALA:HB2	2.20	0.71
2:F:738:TRP:O	2:F:739:PHE:C	2.33	0.71
2:F:767:PHE:O	2:F:769:ARG:N	2.24	0.71
2:G:8:PRO:O	2:G:9:GLN:HB3	1.90	0.71
2:G:59:ASP:O	2:H:707:ASN:ND2	2.24	0.71
2:G:112:SER:HA	2:G:474:TYR:HD2	1.56	0.71
2:G:732:CYS:O	2:G:734:MET:N	2.22	0.71
2:H:182:GLN:NE2	2:H:182:GLN:N	2.39	0.71
2:H:744:LEU:HD12	2:H:744:LEU:O	1.91	0.71
2:J:309:PHE:CE2	2:J:533:ILE:HB	2.25	0.71
2:J:500:ASP:OD1	2:J:836:LYS:NZ	2.23	0.71
2:K:694:VAL:HG23	2:K:878:PHE:CD1	2.25	0.71
6:R:18:SER:N	6:R:19:PRO:CD	2.48	0.71
2:A:811:GLU:HG2	2:C:181:PRO:CB	2.20	0.71
2:B:60:ARG:NH2	5:O:97:ASP:OD2	2.24	0.71
2:B:289:ASP:CA	2:B:291:LEU:CD1	2.69	0.71
2:B:819:TYR:N	2:B:819:TYR:CD1	2.58	0.71
2:C:113:PHE:HD1	2:C:303:ILE:HB	1.56	0.71
2:D:323:VAL:HG12	2:D:332:ASN:ND2	2.05	0.71
2:D:435:ILE:CD1	2:E:390:CYS:HA	2.21	0.71
2:D:529:VAL:HG12	2:E:777:GLN:NE2	2.06	0.71
2:E:198:VAL:O	2:E:258:ALA:HA	1.89	0.71
2:E:636:VAL:CG1	2:E:878:PHE:HB2	2.20	0.71
2:F:115:PRO:HA	2:F:302:TYR:CD1	2.26	0.71
2:F:174:ASP:O	2:F:176:THR:N	2.24	0.71
2:F:390:CYS:HB2	2:F:433:MET:O	1.89	0.71
2:G:109:ARG:HH22	2:G:523:LEU:HB2	1.56	0.71
2:G:140:LYS:HB2	2:I:418:TYR:HB3	1.73	0.71
2:G:290:LEU:HB3	2:G:293:GLN:NE2	2.05	0.71
2:I:376:ILE:HD11	2:I:772:GLN:HB3	1.71	0.71
2:I:470:ASN:OD1	2:I:473:THR:N	2.24	0.71
2:J:877:THR:HG22	2:J:877:THR:O	1.90	0.71
2:J:906:ARG:HH11	2:J:906:ARG:HG2	1.56	0.71
2:K:301:ASN:HA	2:K:569:SER:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:401:THR:O	2:L:250:PRO:HD3	1.89	0.71
2:L:548:LEU:CD1	2:L:604:GLU:HA	2.21	0.71
2:L:851:ASN:OD1	2:L:853:MET:HB2	1.91	0.71
1:5:24:GLU:C	1:5:26:GLY:H	1.99	0.71
2:A:496:ARG:NH2	2:A:772:GLN:OE1	2.24	0.71
2:A:656:LEU:HD12	2:A:661:THR:HG21	1.72	0.71
2:B:64:LEU:HD11	2:C:709:ARG:HB2	1.72	0.71
2:B:614:GLN:HB3	2:B:616:PHE:HE1	1.55	0.71
2:C:72:ASP:HB3	2:C:83:ARG:HG3	1.73	0.71
2:E:562:VAL:O	2:E:563:ASN:HB3	1.90	0.71
2:F:386:LEU:HB3	2:F:387:PRO:CD	2.19	0.71
2:F:729:VAL:HG13	2:F:736:LYS:HA	1.73	0.71
2:G:148:PRO:HA	2:I:428:GLY:HA2	1.73	0.71
2:G:223:LYS:HE2	2:G:223:LYS:HA	1.71	0.71
2:G:244:LEU:C	2:G:244:LEU:HD12	2.16	0.71
2:G:360:PHE:O	2:G:362:MET:N	2.22	0.71
2:K:250:PRO:O	2:K:252:THR:N	2.23	0.71
2:K:435:ILE:HG21	2:K:437:LEU:HD12	1.72	0.71
2:K:523:LEU:O	2:K:529:VAL:HG21	1.91	0.71
2:L:698:PHE:O	2:L:700:SER:N	2.23	0.71
3:M:70:VAL:HA	3:M:495:LEU:CD2	2.21	0.71
7:U:33:TRP:HB3	7:U:44:VAL:HG11	1.72	0.71
2:A:679:PRO:HG3	2:A:686:TYR:HE1	1.55	0.70
2:B:463:ASP:O	2:B:465:ILE:N	2.24	0.70
2:B:497:TRP:HH2	2:B:836:LYS:CG	1.84	0.70
2:B:645:TRP:HZ3	2:B:648:PHE:CD2	2.08	0.70
2:C:261:TYR:CD1	2:C:261:TYR:N	2.59	0.70
2:C:714:ASN:O	2:C:715:GLU:HB2	1.90	0.70
2:D:46:ARG:HB2	2:E:615:SER:OG	1.91	0.70
2:D:144:ARG:HD2	2:D:144:ARG:O	1.89	0.70
2:D:306:ARG:HG3	2:D:565:ILE:O	1.91	0.70
2:D:487:LEU:HA	2:D:491:VAL:HG21	1.73	0.70
2:F:646:ALA:O	2:F:648:PHE:N	2.23	0.70
2:G:140:LYS:CB	2:I:418:TYR:HB3	2.21	0.70
2:G:310:ILE:O	2:G:310:ILE:CG2	2.38	0.70
2:I:337:LEU:HG	2:I:340:ARG:HH21	1.55	0.70
2:J:255:GLU:HB3	2:J:256:PRO:CD	2.17	0.70
2:K:275:VAL:O	2:K:275:VAL:HG12	1.91	0.70
3:M:73:LYS:HE3	3:M:81:ASN:OD1	1.91	0.70
3:M:291:SER:CB	3:M:315:VAL:HG23	2.21	0.70
5:O:239:ASN:N	7:T:4:GLU:OE1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:17:PRO:HG2	1:4:17:PRO:O	1.91	0.70
1:8:19:MET:HE3	2:C:29:VAL:HG21	1.73	0.70
2:A:52:PRO:HB3	9:W:6:UNK:O	1.90	0.70
2:A:242:VAL:HG23	2:A:263:GLU:HG2	1.71	0.70
2:A:612:ASN:ND2	2:C:25:SER:OG	2.19	0.70
2:B:323:VAL:O	2:B:323:VAL:CG2	2.39	0.70
2:B:455:PRO:CD	2:B:505:VAL:HG21	2.17	0.70
2:B:497:TRP:CE3	2:B:774:MET:HB3	2.26	0.70
2:D:149:PHE:HD1	2:D:150:ILE:H	1.38	0.70
2:D:204:LYS:HG3	2:D:262:ALA:HB1	1.73	0.70
2:D:279:ASP:CA	2:D:464:ASN:ND2	2.51	0.70
2:D:878:PHE:CD2	2:D:889:LEU:HD21	2.27	0.70
2:E:444:SER:O	2:E:448:SER:HB3	1.91	0.70
2:E:490:TYR:HA	2:E:493:ILE:CD1	2.15	0.70
2:E:545:LEU:HD12	2:E:546:LEU:H	1.55	0.70
2:F:175:LYS:C	2:F:177:TYR:H	1.98	0.70
2:F:386:LEU:HB3	2:F:387:PRO:HD3	1.73	0.70
2:G:251:SER:C	2:G:253:PRO:HD3	2.16	0.70
2:G:367:VAL:HG21	2:G:764:MET:HE1	1.72	0.70
2:H:125:ALA:HB2	2:I:801:PHE:HE2	1.56	0.70
2:H:692:LYS:HB2	2:H:879:GLU:CB	2.21	0.70
2:H:756:VAL:HG23	2:H:768:PHE:CE2	2.23	0.70
2:H:810:ARG:HG2	2:I:389:TYR:CE2	2.25	0.70
2:J:376:ILE:O	2:J:376:ILE:HG22	1.92	0.70
2:J:654:THR:HG21	2:J:685:PHE:CE1	2.26	0.70
2:K:815:TYR:CD2	2:K:816:PRO:HD2	2.26	0.70
3:M:347:TYR:O	3:M:357:GLN:NE2	2.24	0.70
6:S:38:SER:O	6:S:38:SER:OG	2.08	0.70
7:U:165:ARG:NE	7:U:166:SER:O	2.24	0.70
2:A:116:TYR:CD2	2:B:493:ILE:HG22	2.25	0.70
2:B:205:ASP:O	2:B:207:THR:N	2.23	0.70
2:B:315:TYR:OH	2:B:538:LYS:N	2.22	0.70
2:B:497:TRP:CH2	2:B:836:LYS:HD2	2.22	0.70
2:B:552:TYR:HE2	2:B:909:ILE:CG1	2.03	0.70
2:B:656:LEU:HD11	2:B:679:PRO:HB2	1.73	0.70
2:C:813:GLN:HG2	2:C:814:ALA:N	2.05	0.70
2:D:337:LEU:H	2:D:340:ARG:HH21	1.39	0.70
2:D:652:SER:OG	2:D:892:LEU:HB2	1.90	0.70
2:D:914:LEU:HB3	2:F:13:MET:CE	2.16	0.70
2:E:94:LEU:HD11	2:E:590:ALA:HB1	1.71	0.70
2:E:324:LEU:O	2:E:324:LEU:HG	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:787:TYR:CD1	2:E:787:TYR:O	2.44	0.70
2:F:516:LEU:HA	2:F:519:ARG:CG	2.21	0.70
2:F:792:LEU:O	2:F:792:LEU:CD1	2.39	0.70
2:G:346:TYR:O	2:G:348:LEU:N	2.24	0.70
2:G:370:TYR:O	2:G:370:TYR:CG	2.44	0.70
2:G:527:ARG:HH11	2:G:527:ARG:HG3	1.57	0.70
2:H:298:ASN:HB3	2:H:478:ASN:HD21	1.57	0.70
2:H:382:VAL:HG21	2:H:439:ALA:HA	1.73	0.70
2:J:621:CYS:SG	2:J:649:ARG:NH1	2.64	0.70
2:K:450:VAL:HB	2:K:510:HIS:NE2	2.05	0.70
2:K:653:PHE:HE1	2:K:846:ILE:HD11	1.57	0.70
2:L:691:PHE:CD1	2:L:880:VAL:HG22	2.26	0.70
3:M:223:MET:HG2	3:M:283:LEU:HD22	1.71	0.70
4:N:175:LEU:C	4:N:176:MET:HE2	2.15	0.70
7:U:180:SER:O	7:U:181:SER:OG	2.09	0.70
2:A:389:TYR:CE2	2:C:433:MET:CE	2.74	0.70
2:A:563:ASN:ND2	2:A:575:ARG:HG2	2.07	0.70
2:A:686:TYR:HA	2:A:840:ASP:OD1	1.90	0.70
2:B:162:ILE:HD12	2:B:162:ILE:N	2.07	0.70
2:B:384:ASP:O	2:B:384:ASP:CG	2.34	0.70
2:B:450:VAL:O	2:B:450:VAL:CG1	2.39	0.70
2:B:895:VAL:HG21	2:B:917:PRO:CG	2.20	0.70
2:C:226:GLN:HB3	2:C:265:VAL:HG12	1.74	0.70
2:C:597:HIS:CA	7:T:93:ARG:NH2	2.52	0.70
2:E:64:LEU:CD1	2:F:709:ARG:HB3	2.21	0.70
2:E:135:TRP:O	2:E:135:TRP:CE3	2.44	0.70
2:E:201:ARG:HG3	2:F:815:TYR:CZ	2.26	0.70
2:E:202:VAL:O	2:E:262:ALA:HA	1.92	0.70
2:F:252:THR:CB	2:F:253:PRO:CD	2.70	0.70
2:G:810:ARG:HD2	2:G:810:ARG:C	2.16	0.70
2:G:874:LEU:HD23	2:G:875:ASP:N	2.06	0.70
2:H:693:LYS:HA	2:H:718:ILE:HG12	1.72	0.70
2:H:813:GLN:HE21	2:H:814:ALA:H	1.38	0.70
2:J:417:ASN:O	2:K:139:ASN:ND2	2.20	0.70
2:K:14:HIS:O	2:K:48:PRO:HB3	1.92	0.70
2:K:810:ARG:HD3	2:L:432:ALA:HB2	1.71	0.70
7:T:44:VAL:HA	7:T:47:ILE:HG22	1.73	0.70
7:T:194:PHE:CE1	7:T:198:PHE:HB2	2.27	0.70
7:U:165:ARG:HG2	7:U:166:SER:H	1.55	0.70
2:B:148:PRO:HA	2:B:199:ALA:O	1.91	0.70
2:B:346:TYR:O	2:B:348:LEU:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:299:ARG:HD2	2:C:452:LEU:CD1	2.19	0.70
2:C:750:GLY:HA2	2:C:754:PHE:HE1	1.54	0.70
2:D:406:LYS:HB3	2:E:156:LYS:HZ2	1.54	0.70
2:G:136:LYS:HG2	2:G:141:ILE:HG23	1.73	0.70
2:G:170:PRO:HB2	2:G:175:LYS:HB3	1.73	0.70
2:G:747:TYR:O	2:G:749:ILE:HG22	1.92	0.70
2:G:748:ASN:HB2	2:G:853:MET:HE2	1.74	0.70
2:H:631:SER:HA	2:H:886:PRO:HA	1.73	0.70
2:I:309:PHE:HE1	2:I:364:ASN:HB2	1.54	0.70
2:I:720:ARG:HG3	2:I:735:THR:HG22	1.73	0.70
2:I:750:GLY:HA2	2:I:754:PHE:CE1	2.26	0.70
2:J:255:GLU:CB	2:J:256:PRO:HD2	2.19	0.70
2:J:437:LEU:O	2:J:437:LEU:HG	1.91	0.70
2:J:655:ARG:CZ	2:J:887:THR:HG21	2.21	0.70
2:K:466:THR:O	2:K:467:LEU:HD23	1.91	0.70
2:K:810:ARG:HD2	2:L:430:ILE:O	1.92	0.70
2:L:136:LYS:HD3	2:L:140:LYS:CD	2.20	0.70
2:L:153:ASN:ND2	2:L:156:LYS:HA	2.06	0.70
2:L:218:LYS:O	2:L:219:PRO:C	2.32	0.70
2:L:309:PHE:HZ	2:L:533:ILE:HB	1.53	0.70
1:1:12:ARG:HD3	1:1:12:ARG:O	1.92	0.70
2:A:336:ASP:HB3	2:A:539:PHE:CE2	2.27	0.70
2:A:810:ARG:HH11	2:A:810:ARG:CB	2.03	0.70
2:B:523:LEU:O	2:B:529:VAL:HG21	1.91	0.70
2:C:188:TRP:CE3	2:C:188:TRP:CA	2.75	0.70
2:C:836:LYS:HG2	2:C:837:PHE:N	2.06	0.70
2:D:128:THR:O	2:D:128:THR:OG1	2.07	0.70
2:D:216:TYR:O	2:D:216:TYR:CD2	2.45	0.70
2:D:730:ALA:O	2:D:732:CYS:N	2.24	0.70
2:E:334:VAL:O	2:E:334:VAL:HG13	1.92	0.70
2:F:473:THR:HG23	2:F:476:TYR:H	1.56	0.70
2:F:582:ARG:HH11	2:F:582:ARG:HG2	1.57	0.70
2:F:780:ASN:HD22	2:F:832:LEU:HD21	1.55	0.70
2:G:356:ARG:HH11	2:G:356:ARG:CG	2.02	0.70
2:I:195:ALA:CB	2:I:197:LYS:HE3	2.15	0.70
2:I:608:ARG:HH11	2:I:608:ARG:HG2	1.56	0.70
2:K:110:GLY:HA2	2:K:527:ARG:HE	1.56	0.70
2:K:134:GLU:HB2	2:K:204:LYS:O	1.91	0.70
2:L:492:ASN:HD22	2:L:497:TRP:HB3	1.55	0.70
3:M:69:LEU:HD11	3:M:93:VAL:HG11	1.71	0.70
2:B:471:LYS:HB3	2:B:476:TYR:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:729:VAL:CB	2:B:736:LYS:HB2	2.15	0.70
2:C:67:ARG:HD2	2:C:589:TYR:CZ	2.26	0.70
2:C:94:LEU:HD23	2:C:95:ASP:N	2.07	0.70
2:C:379:ASN:O	2:C:381:GLY:N	2.25	0.70
2:C:788:GLN:N	2:C:788:GLN:OE1	2.24	0.70
2:D:154:ILE:HG13	2:D:160:ILE:HG23	1.73	0.70
2:D:453:TYR:OH	2:D:511:HIS:ND1	2.22	0.70
2:D:595:MET:HE3	2:D:599:THR:OG1	1.91	0.70
2:D:900:ARG:NH1	2:F:12:TYR:O	2.24	0.70
2:E:490:TYR:CE2	2:E:797:ASN:HB3	2.26	0.70
2:E:742:GLN:HE21	2:E:844:TRP:HE3	1.38	0.70
2:F:180:GLU:CD	2:F:181:PRO:HD3	2.17	0.70
2:G:390:CYS:SG	2:G:433:MET:O	2.45	0.70
2:G:801:PHE:HB3	2:H:391:PHE:CE2	2.27	0.70
2:J:133:CYS:SG	2:J:209:MET:SD	2.89	0.70
2:J:405:ILE:H	2:J:414:ALA:H	1.37	0.70
2:K:417:ASN:HB2	2:L:139:ASN:HD22	1.55	0.70
5:O:94:ILE:HG21	5:O:102:ILE:HG12	1.72	0.70
7:U:13:TYR:CZ	7:U:15:PRO:HA	2.25	0.70
2:A:306:ARG:NH2	2:A:567:GLN:HB3	2.05	0.70
2:B:255:GLU:C	2:B:255:GLU:CD	2.59	0.70
2:D:144:ARG:C	2:D:144:ARG:CD	2.65	0.70
2:D:406:LYS:CG	2:D:409:GLY:H	2.04	0.70
2:E:109:ARG:HD3	2:E:113:PHE:CD2	2.26	0.70
2:E:527:ARG:HH11	2:E:527:ARG:HG3	1.57	0.70
2:E:545:LEU:HD11	2:E:903:GLN:NE2	2.07	0.70
2:F:216:TYR:O	2:F:216:TYR:CD2	2.44	0.70
2:F:640:ILE:HG21	2:F:645:TRP:HZ2	1.57	0.70
2:G:391:PHE:CZ	2:I:801:PHE:HB3	2.27	0.70
2:H:229:LEU:HD12	2:H:229:LEU:C	2.08	0.70
2:H:275:VAL:CG1	2:H:275:VAL:O	2.39	0.70
2:J:445:PHE:O	2:J:446:LEU:HD23	1.92	0.70
2:J:562:VAL:HG11	2:J:579:ALA:CB	2.22	0.70
2:J:629:ILE:HB	2:J:887:THR:HG23	1.72	0.70
2:K:252:THR:O	2:K:253:PRO:C	2.35	0.70
2:K:771:PHE:CZ	2:K:773:PRO:HG3	2.27	0.70
2:L:320:ASN:HB2	2:L:557:ASN:OD1	1.92	0.70
5:O:206:THR:HG22	5:O:206:THR:O	1.90	0.70
7:U:90:LEU:HD11	7:U:172:GLN:OE1	1.91	0.70
1:4:20:GLY:O	1:4:21:THR:OG1	2.07	0.70
2:B:182:GLN:CA	2:C:811:GLU:HG3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:390:CYS:SG	2:C:433:MET:O	2.50	0.70
2:C:779:VAL:HG23	2:C:779:VAL:O	1.91	0.70
2:D:548:LEU:HB2	2:D:903:GLN:OE1	1.92	0.70
2:E:149:PHE:CD1	2:E:149:PHE:O	2.44	0.70
2:E:780:ASN:O	2:E:782:THR:N	2.24	0.70
2:E:810:ARG:CD	2:F:430:ILE:HG23	2.22	0.70
2:F:104:ARG:CB	2:F:104:ARG:NH1	2.51	0.70
2:F:799:SER:OG	2:F:814:ALA:HA	1.92	0.70
2:G:140:LYS:HB3	2:I:418:TYR:CB	2.22	0.70
2:G:323:VAL:HG22	2:G:324:LEU:N	2.05	0.70
2:H:377:ILE:O	2:H:377:ILE:HG13	1.91	0.70
2:H:627:TYR:CE2	2:H:638:ILE:HG21	2.25	0.70
2:I:558:PHE:HE2	2:I:586:ILE:HG21	1.56	0.70
2:J:272:THR:N	2:J:298:ASN:OD1	2.24	0.70
2:J:824:ILE:CD1	2:L:115:PRO:HD2	2.21	0.70
2:K:70:PRO:HG3	2:K:84:PHE:HE1	1.56	0.70
2:K:107:LEU:CD2	2:K:109:ARG:HG3	2.21	0.70
2:K:299:ARG:HG3	2:K:478:ASN:OD1	1.91	0.70
2:K:515:GLY:O	2:K:518:TYR:N	2.23	0.70
2:K:548:LEU:HD21	2:K:607:LEU:HD23	1.73	0.70
2:K:588:LEU:HD12	2:K:589:TYR:N	2.07	0.70
2:L:561:ASP:O	2:L:565:ILE:HG12	1.91	0.70
7:T:55:LEU:HD13	7:T:200:PRO:HB2	1.74	0.70
1:4:11:PRO:O	1:4:12:ARG:HB2	1.91	0.70
2:A:436:ASN:O	2:A:439:ALA:N	2.22	0.70
2:B:167:THR:HG22	2:B:168:ASN:H	1.56	0.70
2:B:181:PRO:C	2:C:811:GLU:HG3	2.17	0.70
2:B:303:ILE:O	2:B:520:SER:HB2	1.92	0.70
2:C:379:ASN:C	2:C:381:GLY:H	2.00	0.70
2:C:759:SER:O	2:C:761:LYS:N	2.25	0.70
2:D:699:ASP:OD1	2:D:873:ALA:HB3	1.92	0.70
2:F:161:GLN:HE21	2:F:163:GLY:HA2	1.57	0.70
2:F:680:TYR:HD1	2:F:890:TYR:HE2	1.40	0.70
2:G:201:ARG:HA	2:G:261:TYR:O	1.91	0.70
2:G:204:LYS:O	2:G:207:THR:HG22	1.91	0.70
2:G:426:GLU:HG2	2:G:427:SER:N	2.07	0.70
2:H:116:TYR:CD2	2:I:493:ILE:HG12	2.26	0.70
2:I:561:ASP:O	2:I:565:ILE:HG12	1.92	0.70
2:J:100:TYR:O	2:J:100:TYR:CD1	2.45	0.70
2:J:559:ARG:HH11	2:J:559:ARG:HG3	1.55	0.70
2:K:10:TRP:HA	2:K:15:ILE:CG2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:459:LYS:O	2:K:480:ARG:NH1	2.24	0.70
5:O:216:LEU:C	5:O:218:GLY:H	1.97	0.70
2:A:713:PRO:HG2	2:E:318:THR:OG1	1.92	0.69
2:B:58:THR:HG21	2:B:597:HIS:HD2	1.56	0.69
2:B:82:VAL:HG11	2:B:586:ILE:HD12	1.73	0.69
2:B:651:TRP:CE3	2:B:846:ILE:HD11	2.27	0.69
2:C:353:LEU:HD12	2:C:353:LEU:N	2.07	0.69
2:D:388:ASN:HA	2:F:440:ASN:HD21	1.56	0.69
2:D:516:LEU:HD21	2:D:569:SER:HB3	1.74	0.69
2:E:91:ASN:HB3	2:E:597:HIS:HA	1.73	0.69
2:E:154:ILE:HA	2:E:159:GLY:O	1.92	0.69
2:E:889:LEU:C	2:E:889:LEU:HD23	2.16	0.69
2:F:63:ARG:HG2	2:F:66:LEU:HD23	1.72	0.69
2:F:655:ARG:NE	2:F:887:THR:HG21	2.06	0.69
2:G:362:MET:O	2:G:364:ASN:N	2.24	0.69
2:G:516:LEU:HA	2:G:519:ARG:HH21	1.55	0.69
2:G:866:LEU:O	2:G:866:LEU:HD12	1.92	0.69
2:H:111:PRO:HD3	2:H:527:ARG:HH22	1.57	0.69
2:H:337:LEU:HD21	2:H:920:ALA:HB1	1.74	0.69
2:H:362:MET:HE1	2:I:754:PHE:CD2	2.26	0.69
2:H:694:VAL:HG22	2:H:878:PHE:CD1	2.27	0.69
2:I:156:LYS:HA	2:I:246:PHE:HE2	1.57	0.69
2:J:181:PRO:CD	2:K:811:GLU:OE1	2.40	0.69
2:J:433:MET:HE3	2:L:433:MET:CE	2.02	0.69
2:J:669:ASP:OD1	2:J:672:PHE:N	2.25	0.69
2:K:8:PRO:HB3	7:U:17:MET:O	1.92	0.69
2:L:94:LEU:HD23	2:L:95:ASP:N	2.06	0.69
2:L:367:VAL:CG2	2:L:764:MET:HE1	2.13	0.69
2:L:800:GLY:N	2:L:813:GLN:O	2.25	0.69
6:S:43:ARG:CB	6:S:44:PRO:HD2	2.09	0.69
7:U:33:TRP:CB	7:U:44:VAL:HG11	2.22	0.69
2:A:389:TYR:CD1	2:C:433:MET:HE2	2.26	0.69
2:B:202:VAL:CG2	2:B:262:ALA:HB2	2.22	0.69
2:C:377:ILE:O	2:C:377:ILE:HG13	1.90	0.69
2:C:539:PHE:O	2:C:543:LYS:HB3	1.92	0.69
2:E:497:TRP:NE1	2:E:776:ARG:HD2	2.07	0.69
2:E:640:ILE:HD12	2:E:918:PHE:CZ	2.25	0.69
2:F:800:GLY:O	2:F:810:ARG:HB2	1.92	0.69
2:G:121:TYR:CE1	2:H:820:PRO:HG2	2.27	0.69
2:G:390:CYS:HA	2:I:435:ILE:CD1	2.21	0.69
2:H:119:THR:HG23	2:H:271:ASP:CG	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:219:PRO:HG3	2:I:821:TYR:OH	1.92	0.69
2:I:309:PHE:HE2	2:I:533:ILE:HB	1.58	0.69
2:J:155:ASN:H	2:J:159:GLY:CA	2.04	0.69
2:J:606:MET:HE3	2:L:28:LEU:CD1	2.22	0.69
2:J:645:TRP:HE1	2:J:872:HIS:HB2	1.56	0.69
2:J:822:PRO:O	2:J:828:ALA:HA	1.92	0.69
2:K:135:TRP:HZ3	2:K:289:ASP:CG	1.99	0.69
2:L:388:ASN:ND2	2:L:437:LEU:HB2	2.07	0.69
3:M:189:LEU:HA	3:M:193:ARG:CG	2.22	0.69
5:O:148:GLN:OE1	5:O:181:ALA:HB2	1.93	0.69
5:O:189:TYR:HE1	5:O:198:GLN:HG3	1.57	0.69
6:S:5:MET:O	6:S:5:MET:HG3	1.91	0.69
1:3:23:ASN:O	1:3:23:ASN:CG	2.34	0.69
2:A:696:ILE:HD12	2:A:696:ILE:H	1.57	0.69
2:A:731:GLN:OE1	2:C:522:LEU:HD21	1.92	0.69
2:B:564:MET:HE2	2:B:564:MET:HA	1.74	0.69
2:B:758:GLU:HG3	2:B:760:TYR:CE2	2.27	0.69
2:B:895:VAL:CB	2:B:917:PRO:HG3	2.22	0.69
2:E:274:LEU:H	2:E:274:LEU:HD12	1.56	0.69
2:F:654:THR:HG23	2:F:688:ASN:HD21	1.56	0.69
2:G:155:ASN:ND2	2:G:158:ASN:OD1	2.26	0.69
2:G:561:ASP:O	2:G:565:ILE:HG12	1.92	0.69
2:H:187:GLN:C	2:H:189:ASN:N	2.42	0.69
2:I:371:ASP:HB2	2:I:374:VAL:CG1	2.22	0.69
2:I:895:VAL:HG12	2:I:917:PRO:HB2	1.74	0.69
2:J:625:MET:HB2	2:J:891:VAL:HG13	1.75	0.69
2:K:13:MET:HE1	2:L:914:LEU:HD23	1.74	0.69
2:L:12:TYR:C	2:L:13:MET:HE2	2.16	0.69
3:M:468:LEU:HD11	3:M:472:ILE:HD11	1.72	0.69
5:O:78:HIS:CD2	5:O:107:LEU:HD21	2.27	0.69
2:B:149:PHE:HB3	2:B:199:ALA:CB	2.23	0.69
2:B:249:LEU:HB2	2:B:250:PRO:HD2	1.72	0.69
2:B:610:ASP:HA	2:B:902:HIS:CE1	2.26	0.69
2:C:346:TYR:CE1	2:C:350:LEU:HD11	2.28	0.69
2:C:490:TYR:HA	2:C:819:TYR:OH	1.92	0.69
2:D:226:GLN:OE1	2:D:226:GLN:CA	2.39	0.69
2:D:377:ILE:HG12	2:D:446:LEU:HD11	1.74	0.69
2:D:534:GLN:N	2:D:534:GLN:OE1	2.25	0.69
2:E:174:ASP:OD2	2:E:223:LYS:HE2	1.92	0.69
2:E:488:ASP:O	2:E:491:VAL:HG12	1.93	0.69
2:E:678:VAL:O	2:E:678:VAL:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:698:PHE:HB2	2:E:702:VAL:HG21	1.74	0.69
2:E:889:LEU:HD23	2:E:889:LEU:O	1.92	0.69
2:F:483:VAL:HG23	2:F:805:MET:O	1.92	0.69
2:F:654:THR:HA	2:F:688:ASN:HD21	1.57	0.69
2:G:61:SER:N	2:H:707:ASN:HD21	1.89	0.69
2:G:752:GLN:NE2	2:H:39:PHE:HA	2.08	0.69
2:H:735:THR:OG1	2:H:737:ASP:OD1	2.06	0.69
2:H:740:LEU:O	2:H:740:LEU:HD23	1.93	0.69
2:I:94:LEU:HD23	2:I:95:ASP:N	2.07	0.69
2:K:246:PHE:HA	2:K:259:VAL:HG13	1.74	0.69
2:K:625:MET:O	2:K:626:LEU:HD23	1.93	0.69
2:K:756:VAL:HG23	2:K:768:PHE:CE2	2.27	0.69
6:S:44:PRO:CD	6:S:44:PRO:O	2.40	0.69
1:8:12:ARG:NH2	2:A:621:CYS:SG	2.66	0.69
2:A:70:PRO:HB3	2:A:84:PHE:HE1	1.58	0.69
2:A:522:LEU:HD23	2:A:522:LEU:O	1.92	0.69
2:B:895:VAL:HG21	2:B:917:PRO:N	2.07	0.69
2:C:889:LEU:HD23	2:C:890:TYR:N	2.07	0.69
2:D:819:TYR:CD1	2:D:819:TYR:O	2.45	0.69
2:E:37:THR:HG23	2:E:38:TYR:HD1	1.57	0.69
2:E:311:GLY:O	2:E:313:MET:N	2.25	0.69
2:E:653:PHE:O	2:E:654:THR:OG1	2.11	0.69
2:G:85:THR:HG23	2:G:85:THR:O	1.91	0.69
2:G:256:PRO:C	2:G:257:LYS:HG2	2.17	0.69
2:G:382:VAL:HG21	2:G:439:ALA:CB	2.20	0.69
2:G:436:ASN:OD1	2:G:437:LEU:N	2.26	0.69
2:G:752:GLN:HE22	2:H:39:PHE:HA	1.58	0.69
2:H:471:LYS:HD3	2:H:476:TYR:CE2	2.27	0.69
2:I:75:ASP:OD1	2:I:560:LYS:NZ	2.23	0.69
2:J:503:ASP:OD2	2:J:836:LYS:HD2	1.93	0.69
2:K:412:TRP:O	2:K:413:THR:HG23	1.92	0.69
2:L:748:ASN:OD1	2:L:853:MET:HG2	1.91	0.69
2:A:218:LYS:O	2:A:218:LYS:CG	2.40	0.69
2:A:389:TYR:CE2	2:C:433:MET:HE1	2.27	0.69
2:A:629:ILE:HB	2:A:887:THR:CG2	2.23	0.69
2:A:694:VAL:HG22	2:A:696:ILE:HD12	1.74	0.69
2:B:289:ASP:CA	2:B:291:LEU:HD12	2.18	0.69
2:B:653:PHE:HE2	2:B:738:TRP:HH2	1.39	0.69
2:B:660:GLU:HG3	2:B:674:TYR:HD2	1.58	0.69
2:D:119:THR:OG1	2:D:120:ALA:N	2.22	0.69
2:D:315:TYR:CZ	2:D:538:LYS:HB2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:318:THR:HA	2:D:321:MET:CE	2.19	0.69
2:D:371:ASP:O	2:D:374:VAL:HG12	1.92	0.69
2:D:729:VAL:C	2:F:534:GLN:HE22	1.99	0.69
2:D:914:LEU:HD23	2:D:915:ARG:H	1.57	0.69
2:E:35:THR:HG22	2:E:38:TYR:CZ	2.27	0.69
2:E:197:LYS:HA	2:E:197:LYS:HE2	1.75	0.69
2:F:85:THR:HG22	2:F:85:THR:O	1.92	0.69
2:F:218:LYS:HB3	2:F:218:LYS:HZ3	1.57	0.69
2:F:490:TYR:CD1	2:F:490:TYR:O	2.45	0.69
2:F:704:TRP:N	2:F:705:PRO:CD	2.55	0.69
2:F:793:PRO:HB2	2:F:794:PHE:HD1	1.56	0.69
2:F:885:GLU:HG3	2:F:886:PRO:HD2	1.75	0.69
2:G:201:ARG:HB3	2:H:815:TYR:CE1	2.27	0.69
2:G:636:VAL:HG11	2:G:889:LEU:HD13	1.73	0.69
2:G:744:LEU:O	2:G:748:ASN:HA	1.92	0.69
2:H:246:PHE:HE2	2:H:256:PRO:HG3	1.58	0.69
2:H:516:LEU:CA	2:H:519:ARG:HH21	2.05	0.69
2:I:401:THR:CG2	2:I:421:ARG:HB3	2.22	0.69
2:I:819:TYR:O	2:I:819:TYR:CG	2.45	0.69
2:J:40:SER:O	2:L:752:GLN:NE2	2.25	0.69
2:J:194:ALA:O	2:J:196:GLN:N	2.25	0.69
2:J:306:ARG:CB	2:J:310:ILE:HG22	2.21	0.69
2:J:375:ARG:CZ	2:J:838:LEU:HD11	2.23	0.69
2:J:800:GLY:HA2	2:J:811:GLU:O	1.91	0.69
2:K:349:MET:CE	2:K:543:LYS:HE3	2.22	0.69
2:L:453:TYR:OH	2:L:511:HIS:ND1	2.20	0.69
2:L:516:LEU:HD23	2:L:569:SER:HB2	1.74	0.69
2:L:545:LEU:HD12	2:L:546:LEU:N	2.07	0.69
2:L:704:TRP:N	2:L:705:PRO:CD	2.56	0.69
7:T:38:PRO:HA	7:T:41:ILE:CG2	2.23	0.69
7:U:17:MET:HE2	7:U:17:MET:CA	2.22	0.69
1:8:15:SER:O	2:C:47:ASN:ND2	2.22	0.69
2:B:278:PRO:HG2	2:B:292:THR:OG1	1.93	0.69
2:B:477:MET:HB3	2:B:570:LEU:HD21	1.73	0.69
2:C:146:GLN:HG3	2:C:147:ALA:N	2.07	0.69
2:C:610:ASP:CG	2:C:902:HIS:CD2	2.70	0.69
2:D:73:ARG:HG3	2:D:82:VAL:HG12	1.74	0.69
2:D:573:ASP:OD1	2:D:576:VAL:HG22	1.92	0.69
2:E:189:ASN:O	2:E:394:GLY:HA3	1.93	0.69
2:F:218:LYS:HB3	2:F:219:PRO:CD	2.21	0.69
2:F:362:MET:HE3	2:F:363:TRP:CH2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:652:SER:OG	2:G:892:LEU:HB3	1.92	0.69
2:H:217:ALA:HB1	2:H:265:VAL:HG11	1.75	0.69
2:H:508:PHE:O	2:H:513:ASN:ND2	2.23	0.69
2:I:341:ASN:HD21	2:I:344:LEU:HB3	1.57	0.69
2:I:688:ASN:HD21	2:I:842:THR:HG23	1.57	0.69
2:J:606:MET:HE3	2:L:28:LEU:HD12	1.75	0.69
2:K:718:ILE:HG12	2:K:738:TRP:CD1	2.27	0.69
2:K:803:GLY:HA2	2:K:811:GLU:HB2	1.74	0.69
2:L:152:THR:HA	2:L:197:LYS:NZ	2.06	0.69
3:M:77:ILE:HG22	3:M:81:ASN:HD21	1.58	0.69
6:Q:20:TYR:CD1	6:R:20:TYR:HB2	2.27	0.69
1:8:16:ARG:CG	1:8:17:PRO:CD	2.68	0.69
2:A:698:PHE:HB2	2:A:702:VAL:CG2	2.22	0.69
2:A:784:TYR:CD1	2:A:829:VAL:HG12	2.28	0.69
2:A:792:LEU:CB	2:A:793:PRO:HD3	2.06	0.69
2:B:94:LEU:HD12	2:B:592:PHE:CE1	2.27	0.69
2:B:107:LEU:HD13	2:B:581:VAL:HG22	1.75	0.69
2:B:109:ARG:HD2	2:B:303:ILE:HB	1.75	0.69
2:B:204:LYS:HB3	2:B:263:GLU:C	2.18	0.69
2:B:274:LEU:HD21	2:B:277:LYS:HB2	1.74	0.69
2:B:293:GLN:N	2:B:293:GLN:OE1	2.23	0.69
2:B:319:GLY:O	2:B:320:ASN:C	2.33	0.69
2:B:588:LEU:HD12	2:B:589:TYR:N	2.08	0.69
2:C:56:VAL:O	2:C:56:VAL:HG13	1.92	0.69
2:C:432:ALA:C	2:C:433:MET:HG3	2.17	0.69
2:C:798:ASN:O	2:C:800:GLY:N	2.25	0.69
2:D:221:ASN:O	2:D:223:LYS:N	2.25	0.69
2:D:379:ASN:ND2	2:D:491:VAL:O	2.26	0.69
2:D:424:GLU:HA	2:E:144:ARG:HE	1.56	0.69
2:D:447:TYR:CZ	2:E:386:LEU:HD22	2.28	0.69
2:D:803:GLY:HA3	2:D:808:THR:O	1.91	0.69
2:E:3:THR:OG1	2:E:6:MET:N	2.24	0.69
2:E:83:ARG:HH11	2:E:83:ARG:HG2	1.58	0.69
2:E:110:GLY:HA2	2:E:527:ARG:HH12	1.58	0.69
2:E:344:LEU:O	2:E:348:LEU:HD13	1.92	0.69
2:E:356:ARG:HB3	2:E:367:VAL:CG1	2.22	0.69
2:E:358:ARG:HH11	2:E:358:ARG:HG2	1.58	0.69
2:E:653:PHE:HB3	2:E:691:PHE:HE2	1.57	0.69
2:E:851:ASN:O	2:E:852:PHE:HB2	1.92	0.69
2:F:121:TYR:N	2:F:121:TYR:CD1	2.58	0.69
2:F:371:ASP:O	2:F:374:VAL:HG22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:734:MET:CE	2:F:738:TRP:HB3	2.23	0.69
2:G:316:ASN:HA	2:G:336:ASP:CG	2.17	0.69
2:G:471:LYS:HA	2:G:476:TYR:CD2	2.28	0.69
2:G:693:LYS:HE2	2:G:715:GLU:CD	2.17	0.69
2:G:712:THR:HB	2:G:713:PRO:CD	2.12	0.69
2:G:784:TYR:CE1	2:G:786:GLU:HB2	2.22	0.69
2:G:801:PHE:HB3	2:H:391:PHE:CZ	2.28	0.69
2:H:382:VAL:HG21	2:H:439:ALA:CB	2.22	0.69
2:H:456:ASP:OD2	2:H:476:TYR:OH	2.11	0.69
2:H:474:TYR:HB2	2:H:572:ASN:ND2	2.08	0.69
2:H:528:TYR:O	2:H:530:PRO:HD3	1.93	0.69
2:H:858:LEU:HB2	2:H:896:PHE:CZ	2.28	0.69
2:I:24:LEU:HD11	2:I:45:PHE:CD2	2.26	0.69
2:I:68:PHE:HD2	2:I:588:LEU:HD22	1.57	0.69
2:I:161:GLN:N	2:I:170:PRO:HD3	2.07	0.69
2:I:356:ARG:CZ	2:I:367:VAL:HG22	2.23	0.69
2:I:487:LEU:HD23	2:I:491:VAL:HG11	1.74	0.69
2:J:195:ALA:O	2:J:196:GLN:C	2.36	0.69
2:J:324:LEU:HD13	2:J:554:TYR:HD1	1.58	0.69
2:J:350:LEU:HD12	2:J:356:ARG:HH21	1.56	0.69
2:J:395:GLY:HA3	2:K:144:ARG:NH2	1.99	0.69
2:J:598:ASN:OD1	2:J:599:THR:N	2.26	0.69
2:J:734:MET:HE3	2:J:738:TRP:CD1	2.27	0.69
2:J:736:LYS:HE2	2:L:589:TYR:CE2	2.28	0.69
2:J:813:GLN:HE22	2:L:147:ALA:HA	1.56	0.69
2:K:297:PRO:CG	2:L:385:GLU:HG3	2.23	0.69
2:K:387:PRO:HB2	2:K:389:TYR:CZ	2.27	0.69
2:K:813:GLN:HG2	2:K:814:ALA:N	2.07	0.69
2:L:143:VAL:O	2:L:143:VAL:HG13	1.91	0.69
2:L:810:ARG:O	2:L:810:ARG:HD2	1.92	0.69
6:P:17:PHE:CE2	6:R:12:PHE:HZ	2.10	0.69
2:A:70:PRO:HA	2:A:84:PHE:CD1	2.27	0.69
2:A:744:LEU:CD2	2:A:853:MET:HG3	2.19	0.69
2:B:120:ALA:HB1	2:C:819:TYR:CE2	2.26	0.69
2:B:885:GLU:O	2:B:886:PRO:C	2.32	0.69
2:C:390:CYS:HB2	2:C:433:MET:H	1.58	0.69
2:C:467:LEU:HD23	2:C:479:GLY:HA3	1.72	0.69
2:C:586:ILE:O	2:C:586:ILE:CG2	2.40	0.69
2:C:704:TRP:HZ3	2:C:861:LEU:HD21	1.56	0.69
2:D:454:LEU:HD23	2:D:502:MET:HB2	1.74	0.69
2:D:504:ASN:OD1	2:D:687:LEU:HD22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:65:THR:HG23	2:F:711:LEU:HD21	1.74	0.69
2:E:900:ARG:HG2	2:E:900:ARG:O	1.93	0.69
2:F:284:THR:O	2:F:284:THR:OG1	2.06	0.69
2:G:711:LEU:O	2:G:711:LEU:HG	1.92	0.69
2:H:160:ILE:HB	2:H:197:LYS:HD2	1.74	0.69
2:I:355:ASP:OD1	2:I:357:SER:HB3	1.93	0.69
2:J:409:GLY:H	2:J:411:THR:HB	1.57	0.69
2:J:487:LEU:HA	2:J:491:VAL:HG11	1.75	0.69
2:J:549:PRO:HD2	2:J:604:GLU:CD	2.18	0.69
2:J:843:MET:HE1	2:J:892:LEU:HD22	1.74	0.69
2:L:309:PHE:HD2	2:L:535:VAL:HG22	1.58	0.69
2:L:784:TYR:CE1	2:L:786:GLU:HG2	2.27	0.69
3:M:73:LYS:HE2	3:M:81:ASN:CB	2.23	0.69
7:T:88:THR:HG22	7:T:176:THR:OG1	1.93	0.69
2:A:267:ILE:HG22	2:A:267:ILE:O	1.92	0.69
2:A:313:MET:HE3	2:A:556:TRP:CD1	2.28	0.69
2:B:454:LEU:CD1	2:B:502:MET:HB3	2.23	0.69
2:B:661:THR:CG2	2:B:662:PRO:HD2	2.17	0.69
2:C:135:TRP:HZ3	2:C:287:SER:HB2	1.56	0.69
2:C:179:PRO:HD3	2:C:201:ARG:CD	2.13	0.69
2:C:353:LEU:H	2:C:353:LEU:CD1	2.05	0.69
2:C:905:HIS:HB2	2:C:908:VAL:HG11	1.72	0.69
2:D:177:TYR:OH	2:E:800:GLY:N	2.26	0.69
2:E:84:PHE:CE2	2:E:588:LEU:HB2	2.27	0.69
2:E:699:ASP:OD1	2:E:699:ASP:N	2.21	0.69
2:G:178:GLN:CD	2:G:201:ARG:HB2	2.18	0.69
2:G:204:LYS:HG2	2:G:205:ASP:H	1.58	0.69
2:H:84:PHE:CE2	2:H:588:LEU:HB2	2.28	0.69
2:H:124:LEU:HD12	2:H:124:LEU:O	1.92	0.69
2:H:339:ASP:OD2	2:H:915:ARG:NH2	2.26	0.69
2:I:96:MET:O	2:I:96:MET:HE3	1.93	0.69
2:J:506:ASN:HA	2:J:686:TYR:CD2	2.28	0.69
2:K:135:TRP:CG	2:K:141:ILE:HD12	2.28	0.69
2:K:525:ASN:HD22	2:L:495:ALA:HB2	1.57	0.69
2:L:176:THR:HG22	2:L:178:GLN:CA	2.22	0.69
7:U:101:MET:HE2	7:U:101:MET:HA	1.75	0.69
1:7:12:ARG:O	2:G:619:TYR:HE1	1.76	0.68
2:A:471:LYS:HA	2:A:476:TYR:CD2	2.28	0.68
2:B:521:MET:CE	2:C:380:HIS:HE1	2.06	0.68
2:B:593:PHE:CD2	2:B:595:MET:HB3	2.28	0.68
2:C:218:LYS:HG2	2:C:218:LYS:O	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:346:TYR:O	2:C:346:TYR:HD1	1.76	0.68
2:C:578:GLY:O	2:C:579:ALA:HB2	1.93	0.68
2:C:746:HIS:CD2	2:C:845:ARG:HE	2.11	0.68
2:C:804:TYR:CD1	2:C:805:MET:HG2	2.29	0.68
2:D:788:GLN:NE2	2:F:222:GLU:N	2.40	0.68
2:E:542:ILE:HG22	2:E:542:ILE:O	1.93	0.68
2:F:110:GLY:C	2:F:527:ARG:HE	2.00	0.68
2:F:728:ASN:CG	2:F:728:ASN:O	2.35	0.68
2:G:52:PRO:CG	2:H:855:MET:HE3	2.22	0.68
2:G:174:ASP:CG	2:G:175:LYS:H	1.99	0.68
2:G:252:THR:O	2:G:254:ASN:N	2.23	0.68
2:G:640:ILE:HB	2:G:874:LEU:HB3	1.75	0.68
2:H:655:ARG:NH1	2:H:880:VAL:HB	2.07	0.68
2:I:202:VAL:HG13	2:I:260:LEU:HD23	1.74	0.68
2:J:95:ASP:OD2	2:L:44:LYS:NZ	2.21	0.68
2:J:851:ASN:OD1	2:J:853:MET:HE3	1.92	0.68
2:L:757:PRO:HD2	2:L:768:PHE:CD2	2.27	0.68
5:O:245:LEU:HD11	5:O:273:ILE:HD11	1.75	0.68
7:T:10:MET:HE1	7:T:200:PRO:HG3	1.75	0.68
1:5:23:ASN:ND2	2:D:18:GLN:HA	2.07	0.68
1:8:25:ILE:HG22	1:8:26:GLY:H	1.58	0.68
2:A:122:ASN:ND2	2:B:816:PRO:O	2.26	0.68
2:A:459:LYS:HD2	2:A:480:ARG:CB	2.23	0.68
2:A:516:LEU:HD23	2:A:519:ARG:NH1	2.08	0.68
2:A:521:MET:SD	2:B:380:HIS:HD2	2.15	0.68
2:B:468:PRO:CG	2:B:475:ALA:HB3	2.20	0.68
2:C:103:ILE:HG22	2:C:104:ARG:H	1.57	0.68
2:D:28:LEU:N	2:E:606:MET:HE3	2.08	0.68
2:D:188:TRP:HA	2:D:188:TRP:CE3	2.28	0.68
2:D:316:ASN:ND2	2:D:340:ARG:O	2.26	0.68
2:E:350:LEU:HB2	2:E:356:ARG:HD2	1.74	0.68
2:E:740:LEU:O	2:E:740:LEU:HD23	1.92	0.68
2:F:743:MET:CE	2:F:768:PHE:HB2	2.22	0.68
2:H:360:PHE:HD1	2:H:362:MET:H	1.41	0.68
2:H:423:ALA:CB	2:I:143:VAL:H	2.05	0.68
2:H:779:VAL:HG21	2:H:821:TYR:CB	2.21	0.68
2:I:20:ALA:HA	2:I:23:TYR:CE2	2.28	0.68
2:I:309:PHE:CD1	2:I:364:ASN:HB2	2.28	0.68
2:J:655:ARG:HB2	2:J:691:PHE:HE1	1.57	0.68
2:J:805:MET:HE2	2:J:805:MET:CA	2.22	0.68
2:L:177:TYR:O	2:L:177:TYR:CD2	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:220:THR:H	2:L:226:GLN:HB3	1.57	0.68
2:L:682:ASP:HB2	2:L:684:THR:HG22	1.75	0.68
4:N:187:LEU:HD13	4:N:188:GLU:H	1.59	0.68
7:T:90:LEU:HD21	7:T:172:GLN:OE1	1.92	0.68
7:U:11:TRP:CD1	7:U:198:PHE:HB3	2.29	0.68
1:1:16:ARG:N	1:1:17:PRO:CD	2.55	0.68
2:A:624:ASN:O	2:A:624:ASN:ND2	2.27	0.68
2:B:453:TYR:HE2	2:B:510:HIS:HA	1.56	0.68
2:B:469:GLU:O	2:B:471:LYS:N	2.26	0.68
2:B:471:LYS:HB3	2:B:476:TYR:CG	2.28	0.68
2:B:899:VAL:HG22	2:B:913:TYR:CD1	2.28	0.68
2:C:207:THR:HG22	2:C:264:ASN:HA	1.76	0.68
2:C:370:TYR:CD1	2:C:370:TYR:O	2.46	0.68
2:C:727:TYR:N	2:C:727:TYR:HD1	1.85	0.68
2:D:562:VAL:HG11	2:D:579:ALA:HB3	1.74	0.68
2:E:654:THR:HG22	2:E:655:ARG:H	1.57	0.68
2:E:920:ALA:H	7:T:106:ALA:HB1	1.58	0.68
2:F:269:ALA:O	2:F:271:ASP:N	2.26	0.68
2:F:655:ARG:HH22	2:F:883:MET:HB3	1.59	0.68
2:G:107:LEU:HD21	2:G:109:ARG:HG3	1.75	0.68
2:G:460:ILE:CA	2:G:480:ARG:HH21	2.06	0.68
2:G:795:GLN:CB	2:G:819:TYR:HB2	2.23	0.68
2:H:133:CYS:SG	2:H:209:MET:SD	2.90	0.68
2:I:657:LYS:HE2	2:I:686:TYR:OH	1.93	0.68
2:J:202:VAL:O	2:J:202:VAL:HG23	1.94	0.68
2:K:225:GLY:O	2:K:226:GLN:HG3	1.92	0.68
2:K:246:PHE:HA	2:K:259:VAL:HG22	1.73	0.68
2:K:335:VAL:HG22	2:K:913:TYR:CE2	2.28	0.68
2:K:784:TYR:HD2	2:K:829:VAL:HG13	1.58	0.68
2:L:123:SER:O	2:L:124:LEU:C	2.34	0.68
2:L:290:LEU:O	2:L:293:GLN:HG3	1.94	0.68
3:M:466:LEU:CD1	3:M:467:PRO:HD2	2.22	0.68
5:O:18:MET:O	5:O:22:LEU:N	2.22	0.68
5:O:260:SER:O	5:O:261:TYR:C	2.35	0.68
2:A:820:PRO:HG2	2:C:121:TYR:CE1	2.28	0.68
2:C:41:LEU:H	2:C:41:LEU:HD23	1.58	0.68
2:C:178:GLN:HE21	2:C:178:GLN:CA	2.06	0.68
2:C:185:GLN:OE1	2:C:185:GLN:HA	1.93	0.68
2:D:320:ASN:HB3	2:D:557:ASN:HB2	1.75	0.68
2:D:386:LEU:HD23	2:F:443:ARG:NH2	2.08	0.68
2:D:657:LYS:HG2	2:D:686:TYR:OH	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:800:GLY:O	2:D:802:VAL:N	2.27	0.68
2:E:281:ALA:HB2	2:E:290:LEU:HD21	1.74	0.68
2:F:96:MET:CE	2:F:324:LEU:HD11	2.24	0.68
2:F:180:GLU:HB3	2:F:181:PRO:CG	2.19	0.68
2:G:62:GLN:HG3	2:G:92:ARG:HH11	1.58	0.68
2:G:121:TYR:CD2	2:G:216:TYR:HB2	2.28	0.68
2:G:804:TYR:CD2	2:G:805:MET:HG2	2.28	0.68
2:H:123:SER:O	2:H:123:SER:OG	2.06	0.68
2:H:193:GLY:O	2:H:195:ALA:N	2.23	0.68
2:H:693:LYS:HZ1	6:Q:28:TRP:CG	2.12	0.68
2:I:172:TYR:O	2:I:173:ALA:C	2.36	0.68
2:I:363:TRP:O	2:I:365:GLN:N	2.25	0.68
2:I:388:ASN:CB	2:I:437:LEU:HD23	2.24	0.68
2:J:74:GLU:HG2	2:J:81:LYS:HB3	1.76	0.68
2:J:810:ARG:HH12	2:K:430:ILE:C	2.01	0.68
2:J:823:LEU:O	2:J:823:LEU:HD23	1.92	0.68
2:K:300:PRO:HG2	2:K:300:PRO:O	1.94	0.68
2:K:784:TYR:HE1	2:K:786:GLU:CG	2.06	0.68
2:L:60:ARG:NH1	7:U:98:GLU:OE2	2.26	0.68
2:L:575:ARG:HG3	2:L:575:ARG:HH11	1.58	0.68
5:O:267:THR:HA	5:O:270:ARG:NH1	2.06	0.68
7:U:7:THR:OG1	7:U:25:GLN:OE1	2.11	0.68
1:1:8:SER:HB3	1:1:9:LEU:HD12	1.76	0.68
1:2:16:ARG:CB	1:2:17:PRO:HD2	2.23	0.68
1:4:17:PRO:O	1:4:17:PRO:CG	2.38	0.68
2:A:389:TYR:CE1	2:C:390:CYS:SG	2.87	0.68
2:A:911:ALA:O	2:A:924:THR:HA	1.94	0.68
2:C:340:ARG:O	2:C:340:ARG:HG3	1.93	0.68
2:C:740:LEU:HD13	2:C:754:PHE:CZ	2.29	0.68
2:C:836:LYS:HG2	2:C:837:PHE:H	1.57	0.68
2:D:303:ILE:CD1	2:D:574:LEU:HD21	2.18	0.68
2:E:349:MET:HE1	2:E:543:LYS:HE2	1.75	0.68
2:F:73:ARG:HB2	2:F:73:ARG:HH11	1.58	0.68
2:F:315:TYR:CZ	2:F:538:LYS:HB2	2.28	0.68
2:G:652:SER:HA	2:G:844:TRP:O	1.94	0.68
2:G:662:PRO:HA	2:G:672:PHE:CD2	2.29	0.68
2:H:14:HIS:O	2:H:48:PRO:HB3	1.93	0.68
2:H:508:PHE:HB3	2:H:513:ASN:HD21	1.58	0.68
2:H:525:ASN:HB3	2:I:494:GLY:O	1.94	0.68
2:H:608:ARG:HH12	2:H:905:HIS:C	2.01	0.68
2:I:810:ARG:NH1	2:I:810:ARG:O	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:125:ALA:HB1	2:J:126:PRO:CD	2.23	0.68
2:J:874:LEU:HD21	2:J:876:MET:HG3	1.75	0.68
2:L:132:PRO:HB2	2:L:202:VAL:HA	1.75	0.68
2:L:537:GLN:OE1	2:L:537:GLN:HA	1.93	0.68
2:L:654:THR:HG21	2:L:685:PHE:CD1	2.29	0.68
3:M:221:LEU:HD13	3:M:336:ASN:CG	2.17	0.68
2:A:52:PRO:CG	2:A:52:PRO:O	2.41	0.68
2:A:704:TRP:CZ2	2:A:861:LEU:HD13	2.29	0.68
2:B:88:VAL:CG2	2:B:549:PRO:HA	2.24	0.68
2:D:306:ARG:NE	2:D:566:LEU:O	2.27	0.68
2:D:335:VAL:HG12	2:D:913:TYR:CE2	2.29	0.68
2:D:410:GLN:CD	2:E:256:PRO:HA	2.19	0.68
2:E:54:HIS:HB3	2:E:55:ASP:OD1	1.93	0.68
2:E:116:TYR:CB	2:F:493:ILE:HD11	2.23	0.68
2:F:360:PHE:H	2:F:365:GLN:HB3	1.59	0.68
2:F:902:HIS:O	2:F:904:PRO:HD3	1.93	0.68
2:I:209:MET:HE2	2:I:286:SER:OG	1.92	0.68
2:I:718:ILE:HG13	2:I:738:TRP:CD2	2.29	0.68
2:J:436:ASN:O	2:J:438:ALA:N	2.21	0.68
2:K:273:HIS:HE1	2:K:297:PRO:HD2	1.57	0.68
2:L:187:GLN:O	2:L:189:ASN:N	2.27	0.68
6:S:32:ARG:HH11	6:S:32:ARG:HG3	1.57	0.68
2:A:350:LEU:HD11	2:A:365:GLN:NE2	2.08	0.68
2:A:497:TRP:CZ3	2:A:776:ARG:HG2	2.28	0.68
2:A:507:PRO:HG2	2:A:508:PHE:CD1	2.28	0.68
2:B:168:ASN:O	2:B:168:ASN:ND2	2.26	0.68
2:B:330:GLN:HA	2:B:330:GLN:NE2	2.08	0.68
2:B:352:ALA:HA	2:B:763:ARG:HH12	1.57	0.68
2:C:604:GLU:O	2:C:604:GLU:CD	2.36	0.68
2:D:201:ARG:HB3	2:E:815:TYR:CE1	2.29	0.68
2:D:207:THR:O	2:D:209:MET:N	2.27	0.68
2:E:113:PHE:HD2	2:E:303:ILE:HB	1.58	0.68
2:E:137:ASP:O	2:E:139:ASN:N	2.27	0.68
2:E:138:ASN:C	2:E:140:LYS:H	2.00	0.68
2:F:506:ASN:ND2	2:F:660:GLU:OE1	2.27	0.68
2:G:105:GLY:HA2	2:G:584:ASP:HB2	1.75	0.68
2:G:143:VAL:O	2:G:144:ARG:C	2.33	0.68
2:G:380:HIS:O	2:I:116:TYR:HA	1.93	0.68
2:H:13:MET:HE1	2:I:912:VAL:HG13	1.76	0.68
2:H:407:ALA:HB3	2:H:410:GLN:HE22	1.56	0.68
2:H:727:TYR:O	2:H:736:LYS:HG3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:833:THR:OG1	6:Q:57:THR:HB	1.94	0.68
2:I:149:PHE:CD2	2:I:160:ILE:HD13	2.28	0.68
2:I:259:VAL:C	2:I:260:LEU:HD12	2.19	0.68
2:J:148:PRO:HG2	2:J:200:GLY:HA2	1.75	0.68
2:J:207:THR:OG1	2:J:207:THR:O	2.06	0.68
2:J:447:TYR:O	2:J:447:TYR:HD1	1.77	0.68
2:J:682:ASP:OD1	2:J:683:GLY:N	2.27	0.68
2:K:454:LEU:HD23	2:K:502:MET:CE	2.17	0.68
2:K:549:PRO:O	2:K:552:TYR:OH	2.11	0.68
2:K:567:GLN:HE21	2:K:677:SER:HB2	1.58	0.68
3:M:132:ILE:HG23	3:M:139:ASN:CB	2.22	0.68
3:M:221:LEU:CD1	3:M:336:ASN:CA	2.55	0.68
7:U:100:GLN:HA	7:U:100:GLN:OE1	1.94	0.68
2:A:276:TYR:HH	2:C:186:THR:HG1	1.29	0.68
2:A:469:GLU:N	2:A:469:GLU:OE1	2.26	0.68
2:A:497:TRP:CZ3	2:A:834:GLN:HB2	2.28	0.68
2:A:811:GLU:CG	2:C:181:PRO:HB2	2.23	0.68
2:B:51:ALA:HB1	2:C:855:MET:HB2	1.75	0.68
2:B:201:ARG:HA	2:B:261:TYR:O	1.93	0.68
2:B:312:LEU:HD12	2:B:565:ILE:HG22	1.75	0.68
2:C:652:SER:OG	2:C:843:MET:SD	2.51	0.68
2:C:719:LYS:HE2	2:C:733:ASN:HD21	1.58	0.68
2:C:786:GLU:C	2:C:788:GLN:H	2.02	0.68
2:D:12:TYR:HB2	2:E:900:ARG:NH1	2.09	0.68
2:D:121:TYR:HE2	2:D:216:TYR:CB	2.06	0.68
2:D:177:TYR:CG	2:D:178:GLN:N	2.62	0.68
2:D:299:ARG:NH2	2:D:570:LEU:HG	2.08	0.68
2:D:435:ILE:HB	2:D:437:LEU:CD1	2.23	0.68
2:E:379:ASN:HD21	2:E:493:ILE:CA	2.01	0.68
2:E:507:PRO:HD3	2:E:686:TYR:HB2	1.75	0.68
2:G:96:MET:CE	2:G:324:LEU:HD21	2.24	0.68
2:G:651:TRP:NE1	2:G:876:MET:HE1	2.09	0.68
2:G:792:LEU:HA	2:G:795:GLN:OE1	1.93	0.68
2:H:389:TYR:HE1	2:I:393:LEU:HD21	1.57	0.68
2:H:650:GLY:O	2:H:894:GLU:HB2	1.93	0.68
2:I:507:PRO:HG2	2:I:508:PHE:CD1	2.29	0.68
2:J:162:ILE:HD11	2:J:170:PRO:HB3	1.76	0.68
2:K:316:ASN:HA	2:K:336:ASP:OD2	1.94	0.68
2:L:462:PRO:HG2	2:L:465:ILE:HG21	1.75	0.68
2:L:498:SER:OG	2:L:774:MET:HE1	1.93	0.68
5:O:118:VAL:O	5:O:121:ASN:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:16:ARG:HG2	1:4:18:PHE:CE1	2.29	0.68
1:5:23:ASN:HD21	2:D:19:ASP:H	1.41	0.68
2:A:335:VAL:HB	2:A:913:TYR:CE2	2.29	0.68
2:B:507:PRO:HG2	2:B:508:PHE:CE1	2.29	0.68
2:B:663:SER:OG	2:B:664:LEU:N	2.27	0.68
2:C:190:SER:O	2:C:190:SER:OG	2.08	0.68
2:C:273:HIS:HD2	2:C:298:ASN:HD22	1.39	0.68
2:C:660:GLU:HB3	2:C:674:TYR:HE2	1.55	0.68
2:D:96:MET:HG3	2:D:99:THR:HG21	1.75	0.68
2:D:323:VAL:HG12	2:D:332:ASN:HD21	1.59	0.68
2:D:344:LEU:HG	2:D:620:LEU:CD1	2.24	0.68
2:D:362:MET:O	2:D:362:MET:CG	2.41	0.68
2:D:525:ASN:CB	2:E:495:ALA:HB2	2.24	0.68
2:E:154:ILE:HG23	2:E:197:LYS:HG2	1.76	0.68
2:E:280:VAL:O	2:E:280:VAL:HG23	1.94	0.68
2:E:403:SER:HB2	2:F:250:PRO:CG	2.24	0.68
2:E:522:LEU:HD21	2:F:731:GLN:HB2	1.75	0.68
2:E:740:LEU:O	2:E:744:LEU:HB2	1.94	0.68
2:F:178:GLN:O	2:F:180:GLU:N	2.27	0.68
2:G:350:LEU:HB2	2:G:356:ARG:HD2	1.76	0.68
2:H:176:THR:HB	2:H:177:TYR:HD2	1.57	0.68
2:H:447:TYR:CE1	2:H:452:LEU:HD11	2.27	0.68
2:I:400:ASP:N	2:I:425:ILE:O	2.23	0.68
2:I:639:SER:O	2:I:640:ILE:HD13	1.94	0.68
2:J:110:GLY:O	2:J:112:SER:N	2.25	0.68
2:J:324:LEU:HD22	2:J:542:ILE:HD12	1.76	0.68
2:J:325:ALA:CB	2:J:331:LEU:H	2.06	0.68
2:K:389:TYR:HB2	2:K:391:PHE:CE1	2.28	0.68
2:K:488:ASP:H	2:K:491:VAL:HG12	1.59	0.68
2:K:492:ASN:HD21	2:K:497:TRP:HB3	1.58	0.68
2:L:364:ASN:OD1	2:L:519:ARG:HG2	1.93	0.68
2:L:643:ARG:HG2	2:L:644:ASN:H	1.58	0.68
6:Q:53:LEU:H	6:Q:53:LEU:HD23	1.59	0.68
2:A:596:ALA:HB3	2:A:599:THR:OG1	1.92	0.68
2:A:656:LEU:HD12	2:A:661:THR:CG2	2.24	0.68
2:A:660:GLU:HB3	2:A:674:TYR:CE2	2.28	0.68
2:B:9:GLN:NE2	2:K:701:SER:OG	2.27	0.68
2:B:107:LEU:CD1	2:B:581:VAL:HG22	2.24	0.68
2:B:850:SER:O	2:B:852:PHE:N	2.26	0.68
2:C:869:ASN:OD1	7:T:21:ALA:HB1	1.94	0.68
2:E:200:GLY:HA3	2:F:813:GLN:NE2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:222:GLU:HA	2:F:788:GLN:HE21	1.57	0.68
2:F:327:GLN:N	2:F:551:SER:O	2.22	0.68
2:F:392:PRO:HG2	2:F:392:PRO:O	1.93	0.68
2:G:94:LEU:HB2	2:G:592:PHE:CE2	2.28	0.68
2:G:256:PRO:CA	2:I:412:TRP:CZ3	2.74	0.68
2:G:749:ILE:HD11	2:G:755:TYR:CE1	2.28	0.68
2:G:795:GLN:HG2	2:G:819:TYR:HB2	1.74	0.68
2:G:804:TYR:HD2	2:G:805:MET:HG2	1.59	0.68
2:H:126:PRO:HG2	2:H:126:PRO:O	1.92	0.68
2:H:174:ASP:C	2:H:176:THR:H	2.02	0.68
2:H:698:PHE:HB2	2:H:702:VAL:HB	1.76	0.68
2:I:147:ALA:HB1	2:I:199:ALA:C	2.18	0.68
2:I:350:LEU:CB	2:I:356:ARG:HD2	2.24	0.68
2:J:811:GLU:HG3	2:L:181:PRO:O	1.94	0.68
2:K:31:PHE:HE2	2:L:603:LEU:HD13	1.56	0.68
2:K:376:ILE:HG23	2:K:774:MET:CE	2.23	0.68
2:K:601:SER:HA	2:K:604:GLU:HG2	1.76	0.68
2:L:746:HIS:ND1	2:L:767:PHE:HB2	2.08	0.68
7:T:61:LEU:O	7:T:61:LEU:HD23	1.92	0.68
2:A:649:ARG:HA	2:A:859:THR:HG21	1.75	0.67
2:A:706:GLY:O	2:A:708:ASP:N	2.27	0.67
2:B:80:TYR:HB2	2:B:560:LYS:HZ2	1.59	0.67
2:C:19:ASP:OD1	2:C:47:ASN:HB3	1.94	0.67
2:C:160:ILE:HD11	2:C:199:ALA:HB3	1.75	0.67
2:C:804:TYR:O	2:C:806:GLY:N	2.27	0.67
2:E:71:VAL:HG22	2:J:72:ASP:CB	2.25	0.67
2:E:402:TYR:HA	2:F:249:LEU:C	2.19	0.67
2:E:885:GLU:CG	2:E:886:PRO:HD3	2.05	0.67
2:F:150:ILE:O	2:F:150:ILE:HG23	1.93	0.67
2:G:896:PHE:HE2	2:I:15:ILE:HD13	1.56	0.67
2:G:902:HIS:O	2:G:902:HIS:CG	2.40	0.67
2:H:14:HIS:CE1	2:I:900:ARG:HH21	2.12	0.67
2:I:144:ARG:HD2	2:I:291:LEU:HD23	1.74	0.67
2:I:175:LYS:CB	2:I:175:LYS:NZ	2.57	0.67
2:I:477:MET:HE2	2:I:570:LEU:HB3	1.76	0.67
2:I:627:TYR:HD2	2:I:638:ILE:HG21	1.59	0.67
2:J:367:VAL:O	2:J:515:GLY:HA3	1.94	0.67
2:J:477:MET:HE1	2:J:570:LEU:O	1.92	0.67
2:J:660:GLU:OE2	2:J:686:TYR:OH	2.11	0.67
2:K:915:ARG:HB3	2:K:918:PHE:O	1.94	0.67
2:L:119:THR:HG22	2:L:120:ALA:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:162:VAL:O	5:O:162:VAL:HG23	1.94	0.67
5:O:213:PHE:C	5:O:215:ASN:H	2.02	0.67
7:T:64:THR:O	7:T:66:ARG:HG3	1.93	0.67
2:A:292:THR:CG2	2:C:186:THR:HG23	2.25	0.67
2:B:216:TYR:C	2:B:216:TYR:CD2	2.64	0.67
2:B:249:LEU:CD2	2:B:257:LYS:CD	2.72	0.67
2:C:62:GLN:NE2	2:C:594:PRO:HA	2.09	0.67
2:D:191:GLU:O	2:D:194:ALA:HB3	1.94	0.67
2:E:325:ALA:O	2:E:553:THR:HG22	1.94	0.67
2:E:403:SER:HB2	2:F:250:PRO:HG3	1.76	0.67
2:E:450:VAL:HG13	2:E:487:LEU:HD13	1.76	0.67
2:E:513:ASN:OD1	2:E:516:LEU:N	2.27	0.67
2:G:13:MET:HG3	2:H:914:LEU:HD13	1.76	0.67
2:H:68:PHE:HB2	2:H:588:LEU:HB3	1.75	0.67
2:H:865:MET:HE3	4:N:182:LYS:HZ1	1.59	0.67
2:J:217:ALA:HB3	2:J:226:GLN:NE2	2.09	0.67
2:J:701:SER:O	2:J:702:VAL:HG13	1.95	0.67
2:J:895:VAL:HG11	2:J:917:PRO:C	2.18	0.67
2:K:135:TRP:CH2	2:K:289:ASP:HA	2.28	0.67
2:K:220:THR:HA	2:L:788:GLN:NE2	2.08	0.67
2:K:450:VAL:O	2:K:450:VAL:HG13	1.95	0.67
2:L:52:PRO:HB2	2:L:56:VAL:CG1	2.21	0.67
3:M:133:ASN:OD1	3:M:168:GLU:OE2	2.12	0.67
2:A:527:ARG:HD3	2:A:528:TYR:CE1	2.29	0.67
2:A:544:ASN:CB	2:A:616:PHE:HE2	2.07	0.67
2:B:289:ASP:H	2:B:291:LEU:CD1	2.06	0.67
2:B:770:ASN:ND2	2:B:841:ARG:O	2.28	0.67
2:C:154:ILE:HG23	2:C:197:LYS:HB3	1.75	0.67
2:C:615:SER:O	2:C:615:SER:OG	2.00	0.67
2:C:635:SER:O	2:C:637:PRO:HD3	1.94	0.67
2:C:636:VAL:HG11	2:C:889:LEU:HD13	1.76	0.67
2:C:660:GLU:OE1	2:C:686:TYR:OH	2.10	0.67
2:D:121:TYR:HD1	2:D:121:TYR:N	1.91	0.67
2:D:415:ASP:HA	2:E:141:ILE:HG21	1.75	0.67
2:D:447:TYR:CE2	2:E:385:GLU:HB2	2.29	0.67
2:D:521:MET:CE	2:E:380:HIS:HE2	2.07	0.67
2:D:657:LYS:HE2	2:D:885:GLU:OE1	1.94	0.67
2:D:904:PRO:HD2	2:D:908:VAL:HG23	1.77	0.67
2:E:10:TRP:O	2:E:15:ILE:HG22	1.94	0.67
2:E:257:LYS:HG3	2:E:258:ALA:H	1.58	0.67
2:E:307:ASP:OD1	2:E:308:ASN:ND2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:704:TRP:N	2:F:705:PRO:HD2	2.09	0.67
2:F:784:TYR:CE2	2:F:829:VAL:HG12	2.29	0.67
2:F:891:VAL:HG22	2:F:891:VAL:O	1.94	0.67
2:G:188:TRP:HE3	2:H:809:MET:HE2	1.58	0.67
2:H:268:GLU:O	2:H:269:ALA:HB2	1.93	0.67
2:H:306:ARG:HG3	2:H:306:ARG:HH11	1.59	0.67
2:H:912:VAL:HG22	7:U:108:LEU:HD13	1.74	0.67
2:I:43:ASN:OD1	2:I:44:LYS:HD2	1.93	0.67
2:I:187:GLN:O	2:I:188:TRP:C	2.37	0.67
2:J:99:THR:HA	2:J:589:TYR:O	1.94	0.67
2:J:227:ALA:CB	2:J:265:VAL:HG12	2.18	0.67
2:J:402:TYR:CE1	2:K:249:LEU:HA	2.29	0.67
2:K:209:MET:O	2:K:210:LEU:HD23	1.94	0.67
2:K:214:GLY:O	2:K:215:SER:HB2	1.93	0.67
2:L:698:PHE:CD1	2:L:874:LEU:HG	2.28	0.67
3:M:70:VAL:HA	3:M:495:LEU:HD23	1.74	0.67
1:0:19:LEU:HB3	1:0:21:PRO:HD2	1.77	0.67
2:A:323:VAL:CG2	2:A:555:GLU:HB3	2.24	0.67
2:B:81:LYS:NZ	2:B:555:GLU:OE1	2.25	0.67
2:B:906:ARG:HG3	5:O:104:ASN:CG	2.19	0.67
2:C:131:ASN:OD1	2:C:131:ASN:N	2.22	0.67
2:C:309:PHE:HE1	2:C:364:ASN:HB2	1.57	0.67
2:C:747:TYR:OH	2:C:768:PHE:N	2.27	0.67
2:C:786:GLU:O	2:C:788:GLN:N	2.27	0.67
2:D:244:LEU:HB3	2:D:246:PHE:CE1	2.26	0.67
2:D:754:PHE:CD2	2:F:362:MET:HE1	2.29	0.67
2:F:96:MET:CE	2:F:547:LEU:HD22	2.24	0.67
2:F:135:TRP:CE2	2:F:287:SER:HA	2.30	0.67
2:F:537:GLN:HA	2:F:537:GLN:OE1	1.94	0.67
2:G:263:GLU:HB3	2:G:265:VAL:HG13	1.75	0.67
2:G:468:PRO:HG2	2:G:476:TYR:HB2	1.76	0.67
2:H:126:PRO:HA	2:I:434:GLU:OE1	1.95	0.67
2:H:497:TRP:HH2	2:H:834:GLN:CB	2.07	0.67
2:I:631:SER:O	6:S:10:VAL:HA	1.94	0.67
2:J:12:TYR:HE1	7:T:43:ARG:HD3	1.59	0.67
2:J:163:GLY:H	2:J:168:ASN:CB	2.05	0.67
2:J:747:TYR:HB2	2:J:749:ILE:HG12	1.75	0.67
2:K:655:ARG:O	2:K:656:LEU:HD12	1.94	0.67
2:L:334:VAL:O	2:L:334:VAL:HG13	1.93	0.67
2:L:756:VAL:HG23	2:L:768:PHE:HE2	1.59	0.67
3:M:296:LYS:HG3	3:M:297:GLU:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:TYR:OH	2:C:56:VAL:HG21	1.94	0.67
2:B:335:VAL:HB	2:B:913:TYR:CE2	2.25	0.67
2:B:344:LEU:HD22	2:B:620:LEU:HD23	1.76	0.67
2:C:125:ALA:HB1	2:C:126:PRO:HD2	1.75	0.67
2:C:735:THR:O	2:C:735:THR:CG2	2.40	0.67
2:D:788:GLN:NE2	2:F:221:ASN:C	2.53	0.67
2:E:314:TYR:HD2	2:E:320:ASN:HB2	1.58	0.67
2:E:379:ASN:HA	2:E:442:TRP:CZ2	2.29	0.67
2:F:154:ILE:HD13	2:F:259:VAL:HB	1.77	0.67
2:F:316:ASN:OD1	2:F:341:ASN:HA	1.94	0.67
2:F:781:THR:HA	2:F:787:TYR:CD2	2.29	0.67
2:H:655:ARG:O	2:H:656:LEU:HD12	1.94	0.67
2:J:315:TYR:HB3	2:J:342:THR:CG2	2.25	0.67
2:J:608:ARG:NH2	2:J:906:ARG:HA	2.10	0.67
2:K:701:SER:CB	7:T:16:GLN:HE22	2.07	0.67
2:L:327:GLN:OE1	2:L:327:GLN:HA	1.93	0.67
5:O:78:HIS:HD2	5:O:107:LEU:HD11	1.59	0.67
2:A:121:TYR:HE2	2:A:216:TYR:HB2	1.57	0.67
2:A:327:GLN:HE21	2:A:907:GLY:HA3	1.59	0.67
2:A:664:LEU:O	2:A:664:LEU:HG	1.94	0.67
2:A:708:ASP:HA	2:A:713:PRO:HB2	1.75	0.67
2:B:203:LEU:HD11	2:B:265:VAL:CG1	2.23	0.67
2:B:346:TYR:HA	2:B:349:MET:HE3	1.76	0.67
2:C:10:TRP:CD1	2:C:15:ILE:HG21	2.29	0.67
2:C:150:ILE:CD1	2:C:191:GLU:HG3	2.24	0.67
2:C:154:ILE:N	2:C:197:LYS:HG3	2.09	0.67
2:C:279:ASP:H	2:C:464:ASN:HD22	1.42	0.67
2:C:837:PHE:O	2:C:837:PHE:CD2	2.47	0.67
2:D:382:VAL:HG21	2:D:439:ALA:CB	2.24	0.67
2:D:727:TYR:N	2:D:727:TYR:CD1	2.63	0.67
2:D:857:ALA:HB3	2:F:49:THR:O	1.94	0.67
2:E:171:ILE:O	2:E:175:LYS:NZ	2.28	0.67
2:E:313:MET:O	2:E:314:TYR:C	2.38	0.67
2:E:510:HIS:HD2	2:E:511:HIS:H	1.42	0.67
2:F:318:THR:HG21	2:H:714:ASN:OD1	1.94	0.67
2:F:346:TYR:CZ	2:F:350:LEU:HD11	2.30	0.67
2:F:436:ASN:OD1	2:F:439:ALA:HB3	1.94	0.67
2:G:88:VAL:HG23	2:G:549:PRO:HA	1.76	0.67
2:G:117:SER:OG	2:H:382:VAL:O	2.13	0.67
2:G:135:TRP:HE3	2:G:135:TRP:N	1.92	0.67
2:G:136:LYS:HE2	2:G:141:ILE:HD13	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:402:TYR:HB3	2:I:248:ALA:O	1.94	0.67
2:H:407:ALA:CB	2:H:410:GLN:HE22	2.08	0.67
2:I:599:THR:HA	2:I:602:THR:HG22	1.75	0.67
2:J:86:LEU:O	2:J:86:LEU:HG	1.95	0.67
2:J:299:ARG:CD	2:J:570:LEU:HD11	2.25	0.67
2:J:866:LEU:HG	2:J:867:TYR:H	1.58	0.67
2:K:221:ASN:N	2:L:788:GLN:NE2	2.43	0.67
2:K:547:LEU:HD11	2:K:552:TYR:CZ	2.30	0.67
2:L:497:TRP:HA	2:L:774:MET:SD	2.35	0.67
5:O:51:GLU:HB3	5:O:54:ARG:HH12	1.59	0.67
5:O:151:LEU:HD13	5:O:189:TYR:CD2	2.29	0.67
6:S:57:THR:O	6:S:57:THR:CG2	2.41	0.67
1:8:30:LEU:C	1:8:30:LEU:CD1	2.67	0.67
2:A:263:GLU:HB3	2:A:265:VAL:HG13	1.77	0.67
2:A:462:PRO:HD2	2:A:465:ILE:HG21	1.77	0.67
2:A:484:PRO:CD	2:A:806:GLY:HA2	2.24	0.67
2:B:474:TYR:O	2:B:477:MET:N	2.17	0.67
2:B:623:ALA:CB	2:B:915:ARG:HH22	2.06	0.67
2:B:660:GLU:HG3	2:B:674:TYR:CD2	2.29	0.67
2:B:681:LEU:O	2:B:681:LEU:HD12	1.93	0.67
2:B:720:ARG:O	2:B:720:ARG:HG3	1.94	0.67
2:B:727:TYR:O	2:B:736:LYS:HB3	1.95	0.67
2:C:135:TRP:HA	2:C:135:TRP:CE3	2.29	0.67
2:C:154:ILE:HB	2:C:160:ILE:N	2.08	0.67
2:C:226:GLN:HE21	2:C:226:GLN:CA	2.06	0.67
2:C:823:LEU:HD23	2:C:823:LEU:H	1.59	0.67
2:D:307:ASP:OD1	2:D:308:ASN:OD1	2.13	0.67
2:D:386:LEU:HD23	2:F:443:ARG:CZ	2.25	0.67
2:D:811:GLU:CA	2:E:429:ASN:HD21	2.07	0.67
2:F:561:ASP:O	2:F:565:ILE:HG12	1.95	0.67
2:F:711:LEU:HD12	2:F:737:ASP:HB3	1.77	0.67
2:G:850:SER:N	2:G:861:LEU:HD12	2.09	0.67
2:H:666:SER:OG	2:H:668:PHE:O	2.13	0.67
2:J:798:ASN:HD22	2:L:124:LEU:HB2	1.59	0.67
2:K:273:HIS:O	2:K:273:HIS:CG	2.40	0.67
2:K:674:TYR:OH	2:K:677:SER:O	2.10	0.67
2:L:128:THR:HG22	2:L:128:THR:O	1.95	0.67
2:L:213:TYR:O	2:L:215:SER:N	2.28	0.67
3:M:351:ASP:OD2	3:M:354:LYS:HB3	1.95	0.67
7:U:38:PRO:HA	7:U:41:ILE:CG2	2.23	0.67
7:U:165:ARG:HG3	7:U:172:GLN:HE22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:368:ASP:O	2:A:841:ARG:NH2	2.28	0.67
2:A:655:ARG:NH1	2:A:883:MET:HG3	2.07	0.67
2:B:641:PRO:HB2	3:M:99:PHE:HE1	1.60	0.67
2:C:133:CYS:SG	2:C:209:MET:SD	2.93	0.67
2:C:335:VAL:H	2:C:913:TYR:HE2	1.41	0.67
2:C:837:PHE:O	2:C:837:PHE:CG	2.41	0.67
2:D:801:PHE:CE2	2:F:126:PRO:HD3	2.30	0.67
2:E:137:ASP:OD1	2:E:141:ILE:N	2.28	0.67
2:E:142:LYS:HD3	2:E:142:LYS:N	2.09	0.67
2:E:314:TYR:HE1	2:E:559:ARG:HG3	1.60	0.67
2:E:661:THR:O	2:E:661:THR:CG2	2.42	0.67
2:E:787:TYR:O	2:E:787:TYR:CG	2.47	0.67
2:E:810:ARG:HE	2:F:432:ALA:HB3	1.60	0.67
2:E:893:PHE:HD2	2:E:918:PHE:CE2	2.13	0.67
2:F:334:VAL:O	2:F:334:VAL:HG23	1.95	0.67
2:F:498:SER:CB	2:F:774:MET:HE1	2.22	0.67
2:G:171:ILE:HG22	2:G:173:ALA:H	1.59	0.67
2:G:255:GLU:HG3	2:G:256:PRO:HD2	1.76	0.67
2:G:746:HIS:ND1	2:G:767:PHE:HB2	2.09	0.67
2:G:752:GLN:HG2	2:I:95:ASP:OD2	1.94	0.67
2:G:762:ASP:CG	2:G:769:ARG:HG3	2.20	0.67
2:H:275:VAL:O	2:H:275:VAL:HG12	1.94	0.67
2:I:314:TYR:CD2	2:I:320:ASN:HB2	2.30	0.67
2:I:314:TYR:HD2	2:I:320:ASN:HB2	1.57	0.67
2:I:442:TRP:CD1	2:I:489:THR:HG22	2.30	0.67
2:J:210:LEU:CD1	2:J:269:ALA:HB2	2.24	0.67
2:K:459:LYS:HZ2	2:K:480:ARG:HB3	1.60	0.67
2:L:309:PHE:CD2	2:L:535:VAL:HG22	2.30	0.67
2:L:895:VAL:HB	2:L:917:PRO:CD	2.24	0.67
5:O:201:ARG:HG3	5:O:203:GLY:H	1.58	0.67
6:P:15:GLY:O	6:Q:34:ASN:ND2	2.24	0.67
1:4:18:PHE:O	1:4:19:MET:HE2	1.95	0.67
1:5:19:MET:C	2:D:52:PRO:HG3	2.20	0.67
2:A:10:TRP:CD1	2:A:10:TRP:N	2.62	0.67
2:A:548:LEU:HD22	2:A:604:GLU:OE1	1.95	0.67
2:A:780:ASN:OD1	2:A:781:THR:N	2.28	0.67
2:A:812:GLY:HA3	2:C:181:PRO:HB3	1.76	0.67
2:A:916:THR:HG21	2:C:10:TRP:HE1	1.60	0.67
2:B:211:PRO:O	2:B:213:TYR:N	2.23	0.67
2:B:249:LEU:HB2	2:B:250:PRO:CD	2.23	0.67
2:B:307:ASP:N	2:B:519:ARG:NH1	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:895:VAL:HG22	2:B:896:PHE:N	2.09	0.67
2:C:130:PRO:HG2	2:C:130:PRO:O	1.95	0.67
2:C:284:THR:O	2:C:286:SER:N	2.28	0.67
2:C:311:GLY:O	2:C:313:MET:N	2.28	0.67
2:C:808:THR:HG22	2:C:809:MET:H	1.60	0.67
2:D:198:VAL:HG11	2:F:427:SER:OG	1.95	0.67
2:D:216:TYR:O	2:D:217:ALA:C	2.36	0.67
2:D:804:TYR:HD1	2:D:805:MET:H	1.41	0.67
2:D:823:LEU:O	2:D:823:LEU:CD1	2.38	0.67
2:E:103:ILE:HD13	2:E:312:LEU:HD23	1.77	0.67
2:E:306:ARG:HA	2:E:519:ARG:NH1	2.10	0.67
2:E:811:GLU:CA	2:F:429:ASN:ND2	2.57	0.67
2:F:86:LEU:HD12	2:F:588:LEU:HD21	1.77	0.67
2:F:152:THR:CA	2:F:196:GLN:NE2	2.56	0.67
2:G:356:ARG:HG2	2:G:356:ARG:NH1	2.08	0.67
2:G:908:VAL:HG22	2:G:908:VAL:O	1.95	0.67
2:H:302:TYR:CD2	2:H:517:ARG:HA	2.30	0.67
2:H:388:ASN:CB	2:H:437:LEU:HD23	2.25	0.67
2:I:316:ASN:ND2	2:I:342:THR:H	1.93	0.67
2:I:627:TYR:CD2	2:I:638:ILE:HG21	2.29	0.67
2:I:792:LEU:HA	2:I:795:GLN:OE1	1.95	0.67
2:J:273:HIS:HB3	2:J:298:ASN:ND2	2.10	0.67
2:J:318:THR:O	2:J:319:GLY:C	2.38	0.67
2:J:451:ALA:O	2:J:453:TYR:N	2.28	0.67
2:J:652:SER:OG	2:J:843:MET:HE3	1.95	0.67
2:K:249:LEU:HD12	2:K:250:PRO:N	2.09	0.67
2:K:252:THR:CG2	2:K:253:PRO:CD	2.68	0.67
2:K:521:MET:HE2	2:L:495:ALA:C	2.20	0.67
3:M:73:LYS:HD2	3:M:81:ASN:OD1	1.88	0.67
4:N:179:LYS:C	4:N:180:ARG:HG2	2.13	0.67
5:O:168:ASP:OD2	5:O:255:THR:HA	1.95	0.67
2:A:52:PRO:HG2	2:A:56:VAL:HG11	1.76	0.67
2:A:782:THR:HG22	2:A:782:THR:O	1.93	0.67
2:B:175:LYS:CA	2:B:178:GLN:HB3	2.25	0.67
2:B:435:ILE:HG23	2:C:389:TYR:O	1.95	0.67
2:B:477:MET:HG3	2:B:570:LEU:CD2	2.25	0.67
2:C:315:TYR:CE2	2:C:538:LYS:HB2	2.29	0.67
2:C:747:TYR:N	2:C:747:TYR:CD1	2.57	0.67
2:E:109:ARG:HD3	2:E:113:PHE:CE2	2.30	0.67
2:E:433:MET:HG3	2:F:391:PHE:O	1.94	0.67
2:E:516:LEU:HD12	2:E:519:ARG:HH21	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:893:PHE:HD2	2:E:918:PHE:CZ	2.12	0.67
2:F:113:PHE:CD2	2:F:115:PRO:HB3	2.30	0.67
2:F:217:ALA:CB	2:F:226:GLN:HG2	2.25	0.67
2:F:249:LEU:H	2:F:250:PRO:HD3	1.59	0.67
2:G:824:ILE:HD12	2:I:114:LYS:HA	1.76	0.67
2:H:637:PRO:HB3	2:H:877:THR:HG22	1.77	0.67
2:I:497:TRP:CD1	2:I:776:ARG:HD3	2.30	0.67
2:I:797:ASN:HD22	2:I:817:ALA:HB1	1.59	0.67
2:I:896:PHE:HB2	2:I:916:THR:HG22	1.76	0.67
2:J:100:TYR:CE2	2:J:589:TYR:HD2	2.12	0.67
2:J:111:PRO:HD2	2:J:577:ASP:O	1.93	0.67
2:J:219:PRO:HG2	2:K:821:TYR:CZ	2.30	0.67
2:K:537:GLN:NE2	2:K:542:ILE:HD11	2.10	0.67
2:K:756:VAL:HG23	2:K:768:PHE:HE2	1.60	0.67
2:L:312:LEU:O	2:L:313:MET:HG2	1.93	0.67
2:L:607:LEU:HD21	2:L:614:GLN:OE1	1.95	0.67
3:M:453:VAL:HG12	3:M:454:SER:N	2.09	0.67
4:N:175:LEU:CG	4:N:176:MET:HE3	2.23	0.67
2:A:53:THR:O	2:A:53:THR:HG23	1.95	0.66
2:B:121:TYR:CD1	2:C:819:TYR:HD2	2.13	0.66
2:B:441:LEU:O	2:B:442:TRP:C	2.37	0.66
2:B:573:ASP:OD2	2:B:673:THR:HB	1.95	0.66
2:C:203:LEU:HD12	2:C:203:LEU:N	2.10	0.66
2:D:252:THR:H	2:D:253:PRO:HD3	1.59	0.66
2:D:380:HIS:NE2	2:F:521:MET:SD	2.69	0.66
2:D:546:LEU:HB2	2:D:614:GLN:OE1	1.95	0.66
2:D:660:GLU:HB3	2:D:674:TYR:CD2	2.30	0.66
2:E:176:THR:OG1	2:F:796:HIS:HE1	1.77	0.66
2:F:152:THR:CA	2:F:196:GLN:HE22	2.06	0.66
2:F:274:LEU:HD21	2:F:293:GLN:HB3	1.75	0.66
2:F:626:LEU:CB	2:F:888:LEU:HD21	2.22	0.66
2:F:653:PHE:HA	2:F:890:TYR:O	1.94	0.66
2:F:796:HIS:HB3	2:F:818:ASN:HD22	1.58	0.66
2:G:175:LYS:HE3	2:G:175:LYS:N	2.10	0.66
2:G:217:ALA:HB3	2:G:226:GLN:OE1	1.95	0.66
2:G:220:THR:HG21	2:G:227:ALA:HB3	1.77	0.66
2:G:425:ILE:HD13	2:H:260:LEU:CG	2.14	0.66
2:I:71:VAL:HG12	2:I:72:ASP:OD1	1.96	0.66
2:I:135:TRP:CE3	2:I:135:TRP:CA	2.77	0.66
2:I:156:LYS:HA	2:I:246:PHE:CE2	2.30	0.66
2:I:302:TYR:CE2	2:I:517:ARG:HA	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:360:PHE:O	2:I:360:PHE:CG	2.47	0.66
2:I:436:ASN:HB3	2:I:439:ALA:HB3	1.78	0.66
2:J:315:TYR:CZ	2:J:538:LYS:HB2	2.30	0.66
2:J:341:ASN:HB2	2:J:624:ASN:OD1	1.95	0.66
2:J:655:ARG:NH2	2:J:883:MET:HG3	2.10	0.66
2:K:9:GLN:HA	2:K:12:TYR:HB3	1.77	0.66
2:K:324:LEU:HD22	2:K:542:ILE:HB	1.77	0.66
2:L:324:LEU:HD13	2:L:554:TYR:HD1	1.60	0.66
2:L:379:ASN:OD1	2:L:493:ILE:HA	1.95	0.66
2:L:387:PRO:HB2	2:L:389:TYR:CE2	2.30	0.66
2:L:693:LYS:NZ	2:L:879:GLU:OE2	2.28	0.66
1:1:14:GLY:O	1:1:15:SER:HB3	1.95	0.66
2:A:813:GLN:CG	2:C:148:PRO:HD3	2.24	0.66
2:B:208:PRO:HB2	2:B:267:ILE:HD13	1.75	0.66
2:B:686:TYR:C	2:B:687:LEU:HD12	2.21	0.66
2:B:708:ASP:OD1	2:B:713:PRO:HB3	1.94	0.66
2:C:276:TYR:O	2:C:276:TYR:CG	2.47	0.66
2:D:13:MET:HE1	2:E:914:LEU:HG	1.76	0.66
2:D:183:VAL:O	2:D:183:VAL:HG23	1.94	0.66
2:D:269:ALA:O	2:D:271:ASP:N	2.28	0.66
2:D:276:TYR:O	2:D:276:TYR:CD2	2.49	0.66
2:D:437:LEU:CD2	2:F:437:LEU:HD13	2.23	0.66
2:D:718:ILE:HG12	2:D:738:TRP:NE1	2.10	0.66
2:E:7:MET:HB3	2:E:8:PRO:HD3	1.76	0.66
2:E:718:ILE:HG12	2:E:738:TRP:CE2	2.31	0.66
2:E:784:TYR:CE1	2:E:829:VAL:HG12	2.30	0.66
2:F:19:ASP:HA	2:F:48:PRO:CD	2.25	0.66
2:F:218:LYS:NZ	2:F:218:LYS:CB	2.58	0.66
2:G:52:PRO:O	2:G:52:PRO:CG	2.39	0.66
2:G:175:LYS:HA	2:G:175:LYS:CE	2.10	0.66
2:G:176:THR:CG2	2:G:201:ARG:HG3	2.25	0.66
2:G:202:VAL:CG2	2:G:260:LEU:HD13	2.24	0.66
2:G:655:ARG:O	2:G:687:LEU:HB2	1.95	0.66
2:H:260:LEU:N	2:H:260:LEU:HD22	2.10	0.66
2:H:497:TRP:CE3	2:H:776:ARG:HD3	2.30	0.66
2:H:562:VAL:HG21	2:H:579:ALA:HB1	1.76	0.66
2:I:316:ASN:ND2	2:I:342:THR:HG22	2.10	0.66
2:J:643:ARG:HD3	2:J:918:PHE:CE1	2.30	0.66
2:J:777:GLN:OE1	2:J:833:THR:HG22	1.95	0.66
2:K:744:LEU:O	2:K:744:LEU:HD12	1.95	0.66
2:L:136:LYS:O	2:L:137:ASP:OD1	2.12	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:73:LYS:HE3	3:M:81:ASN:CG	2.19	0.66
5:O:43:LEU:HD23	5:O:45:LEU:HD22	1.77	0.66
5:O:122:LEU:O	5:O:125:LEU:N	2.27	0.66
5:O:245:LEU:O	5:O:245:LEU:HD12	1.94	0.66
7:T:221:ASN:O	7:T:229:VAL:HG23	1.95	0.66
1:8:16:ARG:HB3	2:C:47:ASN:HD21	1.61	0.66
2:A:88:VAL:CG1	2:A:549:PRO:HA	2.24	0.66
2:A:434:GLU:HG3	2:A:435:ILE:N	2.06	0.66
2:A:466:THR:O	2:A:467:LEU:HD23	1.95	0.66
2:B:136:LYS:HD3	2:B:141:ILE:HG12	1.77	0.66
2:B:204:LYS:HB3	2:B:264:ASN:N	2.11	0.66
2:B:242:VAL:HG23	2:B:242:VAL:O	1.95	0.66
2:B:669:ASP:O	2:B:670:PRO:C	2.38	0.66
2:B:693:LYS:HB3	2:B:879:GLU:CG	2.24	0.66
2:C:291:LEU:O	2:C:293:GLN:HG3	1.95	0.66
2:C:498:SER:HB3	2:C:774:MET:CE	2.23	0.66
2:C:711:LEU:O	2:C:712:THR:C	2.38	0.66
2:D:410:GLN:HB2	2:E:156:LYS:NZ	2.10	0.66
2:D:508:PHE:CD2	2:D:684:THR:HG23	2.31	0.66
2:D:657:LYS:HE3	2:D:686:TYR:CE1	2.31	0.66
2:D:780:ASN:O	2:D:782:THR:N	2.29	0.66
2:D:896:PHE:CB	2:F:15:ILE:HD11	2.26	0.66
2:E:189:ASN:ND2	2:E:189:ASN:C	2.53	0.66
2:E:206:THR:OG1	2:E:264:ASN:OD1	2.12	0.66
2:E:242:VAL:HG21	2:E:263:GLU:CB	2.25	0.66
2:G:146:GLN:OE1	2:H:813:GLN:NE2	2.28	0.66
2:G:248:ALA:HB3	2:I:403:SER:H	1.60	0.66
2:G:273:HIS:CD2	2:G:296:ALA:HB3	2.29	0.66
2:G:277:LYS:HE3	2:G:465:ILE:HG22	1.77	0.66
2:H:215:SER:CB	2:I:816:PRO:HB3	2.25	0.66
2:H:361:SER:OG	2:I:730:ALA:HB1	1.96	0.66
2:I:435:ILE:CG2	2:I:437:LEU:HD22	2.25	0.66
2:J:164:THR:HG23	2:J:168:ASN:OD1	1.86	0.66
2:J:202:VAL:HG11	2:J:260:LEU:CD1	2.17	0.66
2:J:620:LEU:HD23	2:J:620:LEU:O	1.96	0.66
2:K:35:THR:HG23	2:K:38:TYR:CE1	2.30	0.66
2:K:888:LEU:O	2:K:888:LEU:HD12	1.96	0.66
2:A:655:ARG:NH2	2:A:883:MET:SD	2.68	0.66
2:B:187:GLN:O	2:B:189:ASN:N	2.29	0.66
2:B:273:HIS:ND1	2:B:273:HIS:O	2.28	0.66
2:B:302:TYR:CD2	2:B:517:ARG:HA	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:454:LEU:HD22	2:B:502:MET:CB	2.24	0.66
2:B:470:ASN:C	2:B:472:ASN:H	2.01	0.66
2:C:371:ASP:O	2:C:374:VAL:HG22	1.95	0.66
2:C:467:LEU:CD2	2:C:479:GLY:HA3	2.24	0.66
2:C:562:VAL:HG21	2:C:579:ALA:HB2	1.76	0.66
2:C:757:PRO:HG3	2:C:768:PHE:HB2	1.76	0.66
2:D:28:LEU:CA	2:E:606:MET:HE3	2.25	0.66
2:D:610:ASP:HB2	2:D:902:HIS:HE2	1.61	0.66
2:D:617:ASN:HB2	2:F:46:ARG:NH1	2.10	0.66
2:E:177:TYR:CE1	2:F:799:SER:HA	2.30	0.66
2:E:196:GLN:HA	2:E:196:GLN:OE1	1.95	0.66
2:F:386:LEU:CB	2:F:387:PRO:HD2	2.24	0.66
2:F:492:ASN:HD22	2:F:497:TRP:HB3	1.58	0.66
2:F:713:PRO:HG2	2:J:318:THR:CB	2.26	0.66
2:G:134:GLU:HG2	2:G:203:LEU:O	1.95	0.66
2:G:202:VAL:O	2:G:263:GLU:N	2.27	0.66
2:G:440:ASN:ND2	2:H:388:ASN:HD22	1.93	0.66
2:H:450:VAL:O	2:H:450:VAL:HG12	1.94	0.66
2:H:453:TYR:HB2	2:H:502:MET:HE1	1.77	0.66
2:I:377:ILE:HG22	2:I:499:PRO:HD3	1.77	0.66
2:I:566:LEU:HD11	2:I:574:LEU:HD22	1.77	0.66
2:J:301:ASN:OD1	2:J:570:LEU:HB2	1.96	0.66
2:J:733:ASN:OD1	6:P:55:TYR:HB3	1.94	0.66
2:J:916:THR:O	2:J:918:PHE:N	2.27	0.66
2:K:252:THR:CG2	2:K:253:PRO:HD2	2.23	0.66
2:K:261:TYR:O	2:K:261:TYR:CG	2.48	0.66
2:L:172:TYR:C	2:L:174:ASP:H	1.98	0.66
1:6:11:PRO:HA	2:J:621:CYS:SG	2.34	0.66
2:A:272:THR:O	2:A:272:THR:OG1	2.02	0.66
2:A:853:MET:HE1	2:B:38:TYR:O	1.96	0.66
2:C:28:LEU:HD12	2:C:31:PHE:HB3	1.76	0.66
2:C:358:ARG:HH11	2:C:358:ARG:CG	2.08	0.66
2:C:655:ARG:O	2:C:656:LEU:HD23	1.94	0.66
2:C:890:TYR:CE1	2:C:892:LEU:HD21	2.31	0.66
2:D:31:PHE:CZ	2:E:603:LEU:HD12	2.31	0.66
2:D:121:TYR:CE2	2:D:216:TYR:CB	2.74	0.66
2:D:140:LYS:HZ1	2:F:405:ILE:HG22	1.61	0.66
2:D:172:TYR:CG	2:D:175:LYS:HD2	2.30	0.66
2:D:415:ASP:C	2:E:141:ILE:HG12	2.19	0.66
2:D:415:ASP:HB3	2:E:141:ILE:CD1	2.23	0.66
2:D:746:HIS:HD1	2:D:767:PHE:HB3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:135:TRP:CE2	2:E:143:VAL:HG21	2.31	0.66
2:E:172:TYR:OH	2:E:242:VAL:HB	1.95	0.66
2:E:325:ALA:HB2	2:E:332:ASN:CA	2.25	0.66
2:E:698:PHE:H	2:E:702:VAL:HG23	1.58	0.66
2:F:78:TYR:OH	2:H:724:GLY:N	2.28	0.66
2:F:202:VAL:CG1	2:F:260:LEU:HD23	2.25	0.66
2:G:389:TYR:CD2	2:I:810:ARG:HB3	2.30	0.66
2:G:657:LYS:HE3	2:G:686:TYR:OH	1.96	0.66
2:G:695:SER:HB3	2:G:715:GLU:OE2	1.95	0.66
2:G:741:ILE:HD11	2:G:852:PHE:CE2	2.31	0.66
2:H:7:MET:HB3	2:H:9:GLN:OE1	1.96	0.66
2:H:257:LYS:HG2	2:H:257:LYS:O	1.95	0.66
2:H:307:ASP:O	2:H:310:ILE:HG12	1.94	0.66
2:H:374:VAL:HG11	2:H:510:HIS:HE1	1.60	0.66
2:H:411:THR:O	2:H:412:TRP:HB3	1.94	0.66
2:J:125:ALA:HB2	2:K:801:PHE:HE2	1.60	0.66
2:J:378:GLU:OE1	2:L:521:MET:HE1	1.95	0.66
2:K:521:MET:HE1	2:L:494:GLY:C	2.21	0.66
2:L:503:ASP:OD1	2:L:838:LEU:HD21	1.95	0.66
2:A:68:PHE:HB2	2:A:588:LEU:HB3	1.77	0.66
2:A:98:SER:OG	2:A:591:ASN:HB2	1.96	0.66
2:A:704:TRP:NE1	2:A:705:PRO:HD3	2.06	0.66
2:B:210:LEU:CB	2:B:211:PRO:CD	2.72	0.66
2:B:537:GLN:HG2	2:B:542:ILE:HG22	1.75	0.66
2:B:792:LEU:HD12	2:B:792:LEU:O	1.96	0.66
2:C:154:ILE:HG12	2:C:197:LYS:NZ	2.03	0.66
2:D:121:TYR:HA	2:E:797:ASN:HD21	1.59	0.66
2:D:201:ARG:HH11	2:D:201:ARG:HG3	1.60	0.66
2:D:851:ASN:OD1	2:D:853:MET:HG3	1.95	0.66
2:D:878:PHE:CB	2:D:889:LEU:HD21	2.26	0.66
2:E:138:ASN:C	2:E:140:LYS:N	2.47	0.66
2:E:188:TRP:N	2:E:192:VAL:HG22	2.10	0.66
2:E:351:ASP:OD2	2:E:765:TYR:N	2.23	0.66
2:E:521:MET:HE1	2:F:380:HIS:NE2	2.10	0.66
2:E:739:PHE:O	2:E:740:LEU:C	2.38	0.66
2:F:192:VAL:O	2:F:194:ALA:N	2.28	0.66
2:F:563:ASN:HB2	2:F:575:ARG:NH1	2.10	0.66
2:F:708:ASP:O	2:F:710:LEU:N	2.29	0.66
2:H:20:ALA:HA	2:H:23:TYR:CE1	2.31	0.66
2:I:371:ASP:OD2	2:I:512:ARG:HD2	1.95	0.66
2:J:175:LYS:H	2:J:201:ARG:NH1	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:375:ARG:HD3	2:J:507:PRO:CB	2.25	0.66
2:J:655:ARG:NH1	2:J:887:THR:HG21	2.10	0.66
2:K:487:LEU:HA	2:K:491:VAL:HG11	1.77	0.66
2:K:492:ASN:HD21	2:K:497:TRP:CB	2.08	0.66
2:L:355:ASP:OD1	2:L:356:ARG:N	2.29	0.66
3:M:139:ASN:ND2	3:M:166:LEU:O	2.29	0.66
2:A:389:TYR:CE1	2:C:433:MET:HB3	2.31	0.66
2:A:459:LYS:HD2	2:A:480:ARG:HB2	1.77	0.66
2:A:655:ARG:NH2	2:A:690:THR:HG21	2.10	0.66
2:B:317:SER:C	2:B:319:GLY:H	2.02	0.66
2:B:680:TYR:CD1	2:B:680:TYR:C	2.70	0.66
2:C:160:ILE:HD11	2:C:199:ALA:CB	2.25	0.66
2:C:291:LEU:HD22	2:C:293:GLN:HE21	1.61	0.66
2:C:599:THR:O	2:C:599:THR:OG1	2.02	0.66
2:C:730:ALA:O	2:C:732:CYS:N	2.28	0.66
2:D:360:PHE:O	2:D:365:GLN:HB2	1.96	0.66
2:D:656:LEU:O	2:D:887:THR:HB	1.96	0.66
2:E:172:TYR:O	2:E:175:LYS:HE2	1.96	0.66
2:E:433:MET:HE1	2:F:433:MET:CG	2.25	0.66
2:E:709:ARG:NH1	2:E:709:ARG:CG	2.54	0.66
2:F:105:GLY:HA3	2:F:531:PHE:CZ	2.31	0.66
2:F:360:PHE:HB3	2:F:365:GLN:HB2	1.77	0.66
2:G:255:GLU:HG3	2:G:256:PRO:CD	2.26	0.66
2:G:488:ASP:O	2:G:491:VAL:HG12	1.95	0.66
2:H:65:THR:C	2:H:66:LEU:HD22	2.19	0.66
2:H:119:THR:HG23	2:H:271:ASP:OD2	1.96	0.66
2:H:177:TYR:CD2	2:H:177:TYR:N	2.64	0.66
2:H:187:GLN:O	2:H:189:ASN:N	2.29	0.66
2:I:435:ILE:HG22	2:I:437:LEU:HD22	1.77	0.66
2:J:175:LYS:HB2	2:J:175:LYS:HZ3	1.61	0.66
2:J:299:ARG:HD2	2:J:570:LEU:HD11	1.77	0.66
2:J:446:LEU:O	2:J:448:SER:N	2.29	0.66
2:J:704:TRP:HE3	2:J:705:PRO:HD3	0.89	0.66
2:J:774:MET:O	2:J:775:SER:OG	2.13	0.66
2:K:134:GLU:HB2	2:K:204:LYS:C	2.20	0.66
2:L:249:LEU:CD2	2:L:250:PRO:HD2	2.21	0.66
2:L:271:ASP:HA	2:L:298:ASN:ND2	2.11	0.66
2:L:341:ASN:HB2	2:L:624:ASN:ND2	2.11	0.66
2:L:356:ARG:NH1	2:L:367:VAL:HB	2.10	0.66
2:L:744:LEU:HD12	2:L:744:LEU:O	1.96	0.66
3:M:362:LEU:O	3:M:362:LEU:HD23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:69:LEU:HD12	7:U:69:LEU:H	1.60	0.66
1:5:16:ARG:NH2	1:5:16:ARG:HG3	2.11	0.66
1:5:29:GLN:NE2	2:F:33:ARG:HG2	2.11	0.66
1:8:25:ILE:C	1:8:27:THR:H	2.02	0.66
2:A:447:TYR:HA	2:A:451:ALA:CB	2.26	0.66
2:A:799:SER:HB2	2:C:181:PRO:CD	2.26	0.66
2:A:810:ARG:HE	2:B:430:ILE:C	2.03	0.66
2:B:317:SER:O	2:B:317:SER:OG	2.11	0.66
2:B:533:ILE:HG22	2:C:731:GLN:CG	2.26	0.66
2:C:20:ALA:HB2	2:C:46:ARG:O	1.96	0.66
2:C:86:LEU:HD12	2:C:588:LEU:CD2	2.25	0.66
2:C:729:VAL:HB	2:C:736:LYS:CA	2.26	0.66
2:D:208:PRO:O	2:D:209:MET:C	2.39	0.66
2:E:65:THR:HG23	2:E:65:THR:O	1.95	0.66
2:G:481:VAL:HG21	2:G:807:PRO:CD	2.26	0.66
2:H:324:LEU:O	2:H:324:LEU:HD23	1.96	0.66
2:H:688:ASN:ND2	2:H:842:THR:O	2.29	0.66
2:H:708:ASP:HB2	2:H:713:PRO:HB3	1.77	0.66
2:H:718:ILE:HG22	2:H:738:TRP:CG	2.30	0.66
2:I:275:VAL:HG12	2:I:481:VAL:HG11	1.77	0.66
2:I:545:LEU:HD11	2:I:909:ILE:HD11	1.78	0.66
2:J:370:TYR:CD2	2:J:375:ARG:HB3	2.31	0.66
2:J:707:ASN:O	2:J:709:ARG:N	2.28	0.66
2:K:398:ALA:O	2:K:399:THR:OG1	2.13	0.66
2:L:144:ARG:HH21	2:L:144:ARG:CG	2.08	0.66
3:M:274:LEU:HD13	3:M:343:TRP:HA	1.77	0.66
2:A:356:ARG:O	2:A:764:MET:HE1	1.95	0.66
2:B:608:ARG:HH22	2:B:906:ARG:CG	2.07	0.66
2:B:636:VAL:HG21	2:B:889:LEU:CD1	2.16	0.66
2:B:645:TRP:HZ3	2:B:648:PHE:CG	2.14	0.66
2:C:178:GLN:N	2:C:178:GLN:NE2	2.41	0.66
2:C:382:VAL:O	2:C:382:VAL:CG1	2.44	0.66
2:C:735:THR:O	2:C:738:TRP:N	2.24	0.66
2:C:804:TYR:CE1	2:C:805:MET:HG2	2.31	0.66
2:D:202:VAL:O	2:D:262:ALA:HA	1.95	0.66
2:D:795:GLN:HE21	2:D:819:TYR:CB	2.08	0.66
2:E:389:TYR:HE1	2:F:393:LEU:HD13	1.61	0.66
2:E:809:MET:HA	2:F:389:TYR:HE2	1.61	0.66
2:F:629:ILE:HG23	2:F:887:THR:HB	1.78	0.66
2:F:808:THR:HG22	2:F:809:MET:H	1.59	0.66
2:G:318:THR:O	2:G:319:GLY:C	2.39	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:371:ASP:HB3	2:G:374:VAL:CG2	2.25	0.66
2:G:378:GLU:CA	2:G:378:GLU:OE1	2.44	0.66
2:G:545:LEU:HD12	2:G:546:LEU:N	2.10	0.66
2:H:182:GLN:N	2:H:182:GLN:CD	2.54	0.66
2:I:405:ILE:HG21	2:I:412:TRP:CZ2	2.30	0.66
2:J:116:TYR:CZ	2:K:824:ILE:HD11	2.31	0.66
2:J:380:HIS:CE1	2:L:517:ARG:HD2	2.30	0.66
2:J:455:PRO:HD2	2:J:458:TYR:CD2	2.30	0.66
2:J:798:ASN:O	2:J:801:PHE:HB2	1.95	0.66
2:K:744:LEU:HD21	2:K:751:TYR:HE1	1.61	0.66
2:L:83:ARG:HG2	2:L:555:GLU:CB	2.23	0.66
2:L:114:LYS:HD3	2:L:298:ASN:O	1.95	0.66
2:L:148:PRO:O	2:L:183:VAL:HB	1.96	0.66
5:O:264:HIS:O	5:O:267:THR:N	2.28	0.66
7:T:38:PRO:HA	7:T:41:ILE:HG22	1.77	0.66
7:T:44:VAL:HA	7:T:47:ILE:CG2	2.26	0.66
7:U:37:GLY:O	7:U:41:ILE:HG22	1.96	0.66
2:A:338:GLN:NE2	2:A:664:LEU:O	2.23	0.66
2:A:517:ARG:HH12	2:B:380:HIS:CG	2.13	0.66
2:A:694:VAL:CG1	2:A:716:PHE:HB2	2.26	0.66
2:B:540:PHE:CE2	2:B:899:VAL:HG23	2.31	0.66
2:B:694:VAL:HG11	2:B:738:TRP:CZ3	2.28	0.66
2:B:770:ASN:HD22	2:B:842:THR:CG2	2.07	0.66
2:C:151:GLY:H	2:C:198:VAL:HG12	1.59	0.66
2:C:154:ILE:N	2:C:197:LYS:HE3	2.11	0.66
2:C:451:ALA:O	2:C:454:LEU:N	2.28	0.66
2:C:472:ASN:HA	2:C:477:MET:HE2	1.78	0.66
2:C:796:HIS:O	2:C:796:HIS:CG	2.47	0.66
2:C:810:ARG:O	2:C:810:ARG:NE	2.29	0.66
2:E:730:ALA:C	2:E:732:CYS:H	2.04	0.66
2:E:829:VAL:O	2:E:829:VAL:HG23	1.96	0.66
2:F:175:LYS:C	2:F:177:TYR:N	2.49	0.66
2:F:870:SER:OG	4:N:177:VAL:CG1	2.40	0.66
2:G:344:LEU:HD22	2:G:620:LEU:HD22	1.78	0.66
2:G:738:TRP:HE3	2:G:742:GLN:HG2	1.59	0.66
2:H:105:GLY:HA2	2:H:584:ASP:HB2	1.78	0.66
2:H:126:PRO:O	2:H:128:THR:N	2.25	0.66
2:H:392:PRO:HD3	2:H:431:PHE:O	1.95	0.66
2:I:160:ILE:H	2:I:170:PRO:HG3	1.61	0.66
2:I:447:TYR:HA	2:I:451:ALA:HB3	1.78	0.66
2:I:629:ILE:HB	2:I:887:THR:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:657:LYS:HD2	2:I:885:GLU:OE1	1.96	0.66
2:I:692:LYS:HD3	2:I:881:ASP:OD1	1.96	0.66
2:J:402:TYR:CE1	2:K:249:LEU:HD13	2.31	0.66
2:K:204:LYS:CG	2:K:205:ASP:H	2.01	0.66
2:K:649:ARG:NE	2:K:894:GLU:OE2	2.28	0.66
3:M:465:THR:HG21	3:M:501:LYS:NZ	2.10	0.66
5:O:58:GLN:HA	5:O:61:ARG:NH1	2.11	0.66
2:A:11:SER:O	2:A:11:SER:OG	2.07	0.65
2:A:335:VAL:HB	2:A:913:TYR:HE2	1.60	0.65
2:A:375:ARG:O	2:A:498:SER:HB3	1.96	0.65
2:A:389:TYR:HE1	2:C:390:CYS:SG	2.19	0.65
2:A:695:SER:OG	2:A:877:THR:HB	1.95	0.65
2:A:811:GLU:OE2	2:C:181:PRO:HA	1.95	0.65
2:A:914:LEU:HD22	2:C:13:MET:HG3	1.79	0.65
2:B:379:ASN:ND2	2:B:493:ILE:HG12	2.10	0.65
2:C:94:LEU:O	2:C:546:LEU:HD12	1.96	0.65
2:C:261:TYR:N	2:C:261:TYR:HD1	1.92	0.65
2:D:914:LEU:CB	2:F:13:MET:HE1	2.18	0.65
2:E:132:PRO:HD2	2:F:814:ALA:O	1.96	0.65
2:E:144:ARG:HE	2:E:144:ARG:HA	1.61	0.65
2:E:242:VAL:CG2	2:E:263:GLU:HA	2.26	0.65
2:E:739:PHE:O	2:E:741:ILE:N	2.29	0.65
2:F:337:LEU:CD1	4:N:191:LYS:NZ	2.59	0.65
2:F:486:ALA:C	2:F:487:LEU:HD12	2.21	0.65
2:F:563:ASN:HD21	2:F:574:LEU:HB2	1.61	0.65
2:F:629:ILE:CG2	2:F:887:THR:HB	2.26	0.65
2:F:781:THR:HG23	2:F:787:TYR:HE2	1.59	0.65
2:G:522:LEU:HD21	2:H:731:GLN:HB2	1.78	0.65
2:H:122:ASN:O	2:H:124:LEU:N	2.29	0.65
2:H:179:PRO:HD3	2:H:201:ARG:HD2	1.78	0.65
2:H:279:ASP:HA	2:H:464:ASN:ND2	2.11	0.65
2:H:792:LEU:N	2:H:793:PRO:HD2	2.07	0.65
2:I:24:LEU:HD11	2:I:45:PHE:CE2	2.31	0.65
2:I:663:SER:OG	2:I:669:ASP:OD2	2.13	0.65
2:J:754:PHE:HD2	2:L:362:MET:SD	2.18	0.65
2:K:629:ILE:HG12	2:K:636:VAL:HB	1.78	0.65
2:K:660:GLU:HG2	2:K:674:TYR:CD2	2.31	0.65
2:K:694:VAL:HG13	2:K:716:PHE:HD2	1.60	0.65
2:L:361:SER:HB2	2:L:522:LEU:HD11	1.76	0.65
2:L:653:PHE:CD1	2:L:691:PHE:HE2	2.13	0.65
3:M:466:LEU:CG	3:M:467:PRO:HD2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:13:LYS:HZ2	6:S:13:LYS:HB2	1.61	0.65
7:T:53:GLN:OE1	7:T:53:GLN:HA	1.96	0.65
1:1:13:HIS:O	1:1:15:SER:N	2.29	0.65
2:A:217:ALA:HB3	2:A:226:GLN:NE2	2.11	0.65
2:A:266:SER:O	2:A:267:ILE:HG13	1.96	0.65
2:A:655:ARG:NH1	2:A:887:THR:HG21	2.10	0.65
2:B:471:LYS:CB	2:B:476:TYR:HB3	2.26	0.65
2:B:644:ASN:OD1	2:B:646:ALA:HB2	1.96	0.65
2:B:899:VAL:HG13	2:B:913:TYR:CE1	2.32	0.65
2:C:298:ASN:HB3	2:C:478:ASN:ND2	2.11	0.65
2:C:462:PRO:HG2	2:C:465:ILE:CG2	2.26	0.65
2:C:518:TYR:O	2:C:522:LEU:HB2	1.96	0.65
2:C:605:ALA:HB3	7:T:89:VAL:HG11	1.79	0.65
2:C:727:TYR:O	2:C:736:LYS:HG3	1.95	0.65
2:C:737:ASP:OD1	2:C:737:ASP:N	2.28	0.65
2:E:66:LEU:HD11	2:E:92:ARG:HH21	1.60	0.65
2:E:218:LYS:O	2:E:220:THR:HG23	1.96	0.65
2:E:389:TYR:CE1	2:F:393:LEU:HD13	2.32	0.65
2:E:655:ARG:NH2	2:E:887:THR:HG21	2.11	0.65
2:F:107:LEU:HD12	2:F:581:VAL:CG2	2.19	0.65
2:G:784:TYR:CD2	2:G:830:PRO:HD2	2.31	0.65
2:H:163:GLY:CA	2:H:168:ASN:HB3	2.26	0.65
2:H:176:THR:OG1	2:H:177:TYR:N	2.20	0.65
2:H:406:LYS:HD3	2:I:254:ASN:O	1.95	0.65
2:H:717:GLU:O	2:H:738:TRP:HB2	1.96	0.65
2:H:876:MET:HE2	2:H:878:PHE:CZ	2.30	0.65
2:I:172:TYR:O	2:I:174:ASP:N	2.29	0.65
2:I:684:THR:O	2:I:684:THR:HG23	1.93	0.65
2:J:197:LYS:HB2	2:J:197:LYS:HZ2	1.61	0.65
2:J:729:VAL:HB	2:J:736:LYS:CG	2.26	0.65
2:K:61:SER:OG	2:L:707:ASN:HB3	1.96	0.65
2:K:593:PHE:HD1	2:L:751:TYR:CD2	2.13	0.65
3:M:132:ILE:HD11	3:M:176:THR:HG23	1.78	0.65
2:A:10:TRP:HZ3	2:B:866:LEU:CD1	2.09	0.65
2:A:69:VAL:HG22	2:A:70:PRO:HD2	1.78	0.65
2:A:216:TYR:OH	2:A:218:LYS:HA	1.95	0.65
2:A:307:ASP:OD1	2:A:308:ASN:N	2.28	0.65
2:A:785:LYS:HG2	2:A:786:GLU:OE2	1.97	0.65
2:B:110:GLY:CA	2:B:579:ALA:HB2	2.26	0.65
2:C:131:ASN:O	2:C:133:CYS:SG	2.52	0.65
2:C:352:ALA:HB3	2:C:353:LEU:CD1	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:624:ASN:HB3	2:C:892:LEU:CD2	2.26	0.65
2:D:188:TRP:HA	2:D:188:TRP:HE3	1.61	0.65
2:E:311:GLY:O	2:E:312:LEU:C	2.40	0.65
2:E:339:ASP:O	2:E:624:ASN:HB2	1.96	0.65
2:E:651:TRP:CD1	2:E:876:MET:HE1	2.31	0.65
2:F:63:ARG:HG3	2:F:65:THR:H	1.61	0.65
2:G:14:HIS:CE1	2:H:900:ARG:HH21	2.13	0.65
2:G:28:LEU:HA	2:H:606:MET:HE2	1.77	0.65
2:G:813:GLN:HE21	2:I:148:PRO:CG	2.09	0.65
2:H:360:PHE:HD1	2:H:361:SER:H	1.44	0.65
2:H:720:ARG:HH22	2:H:723:ASP:CA	2.08	0.65
2:I:662:PRO:HB3	2:I:672:PHE:CD2	2.31	0.65
2:J:135:TRP:N	2:J:135:TRP:CE3	2.63	0.65
2:J:399:THR:HG22	2:J:401:THR:HG23	1.78	0.65
2:J:400:ASP:N	2:J:426:GLU:HG3	2.10	0.65
2:J:593:PHE:HA	2:K:751:TYR:CE2	2.31	0.65
2:K:9:GLN:HE22	7:U:16:GLN:C	2.04	0.65
2:K:784:TYR:CE1	2:K:786:GLU:HG2	2.30	0.65
5:O:196:PHE:O	5:O:210:THR:HB	1.95	0.65
2:A:654:THR:HG21	2:A:685:PHE:CD2	2.31	0.65
2:A:697:MET:HE3	2:A:875:ASP:HB2	1.77	0.65
2:B:213:TYR:O	2:B:213:TYR:CG	2.49	0.65
2:B:299:ARG:CD	2:B:453:TYR:HE1	2.09	0.65
2:B:895:VAL:HG21	2:B:917:PRO:CB	2.25	0.65
2:C:573:ASP:O	2:C:574:LEU:C	2.39	0.65
2:D:121:TYR:N	2:D:121:TYR:CD1	2.64	0.65
2:D:310:ILE:CD1	2:D:343:GLU:HB3	2.24	0.65
2:E:74:GLU:OE2	2:E:74:GLU:N	2.29	0.65
2:E:226:GLN:NE2	2:F:817:ALA:O	2.29	0.65
2:E:387:PRO:HB2	2:E:389:TYR:CE2	2.30	0.65
2:E:502:MET:HG2	2:E:502:MET:O	1.95	0.65
2:F:96:MET:HE3	2:F:324:LEU:HD11	1.78	0.65
2:F:654:THR:HG21	2:F:685:PHE:HB3	1.78	0.65
2:G:658:THR:HG22	2:G:888:LEU:HG	1.79	0.65
2:I:360:PHE:O	2:I:362:MET:N	2.29	0.65
2:I:569:SER:C	2:I:570:LEU:HD12	2.20	0.65
2:J:28:LEU:HB2	2:K:606:MET:HE2	1.78	0.65
2:J:508:PHE:CD2	2:J:684:THR:HG23	2.30	0.65
2:K:31:PHE:CD2	2:L:603:LEU:HD13	2.32	0.65
2:K:660:GLU:HG2	2:K:674:TYR:CZ	2.30	0.65
2:K:709:ARG:O	2:K:710:LEU:HD23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:874:LEU:HD21	2:K:876:MET:CG	2.26	0.65
3:M:422:LEU:HD21	3:M:444:ARG:CZ	2.26	0.65
7:U:13:TYR:HB2	7:U:194:PHE:CD2	2.30	0.65
1:8:16:ARG:HG3	1:8:17:PRO:HD2	1.76	0.65
1:8:30:LEU:HD23	2:C:37:THR:HG21	1.79	0.65
2:B:114:LYS:HZ1	2:B:298:ASN:C	2.03	0.65
2:B:638:ILE:HD11	2:B:876:MET:HG3	1.78	0.65
2:B:892:LEU:O	2:B:893:PHE:C	2.39	0.65
2:B:895:VAL:HG21	2:B:917:PRO:HB3	1.78	0.65
2:B:914:LEU:HD23	2:B:915:ARG:N	2.11	0.65
2:C:184:GLY:O	2:C:186:THR:N	2.29	0.65
2:C:209:MET:HE2	2:C:209:MET:N	2.11	0.65
2:C:356:ARG:NH2	2:C:356:ARG:N	2.44	0.65
2:C:890:TYR:CZ	2:C:892:LEU:HD21	2.31	0.65
2:D:435:ILE:HD13	2:E:390:CYS:HA	1.77	0.65
2:E:78:TYR:HD2	2:E:668:PHE:HB2	1.61	0.65
2:F:114:LYS:CE	2:F:298:ASN:HB2	2.27	0.65
2:F:780:ASN:HB2	2:F:832:LEU:HD23	1.78	0.65
2:G:96:MET:SD	2:G:547:LEU:HD22	2.36	0.65
2:G:297:PRO:HG2	2:H:385:GLU:HG3	1.78	0.65
2:G:506:ASN:HB3	2:G:686:TYR:CD1	2.32	0.65
2:G:544:ASN:HB3	2:I:44:LYS:HE3	1.78	0.65
2:G:546:LEU:N	2:G:614:GLN:OE1	2.24	0.65
2:H:301:ASN:OD1	2:H:570:LEU:HG	1.97	0.65
2:H:348:LEU:HB3	2:H:619:TYR:HE2	1.61	0.65
2:H:396:SER:CB	2:H:426:GLU:HG2	2.21	0.65
2:I:127:LYS:HE3	2:I:213:TYR:CE2	2.31	0.65
2:I:566:LEU:HD12	2:I:566:LEU:O	1.96	0.65
2:J:317:SER:O	2:J:318:THR:C	2.38	0.65
2:J:324:LEU:HD13	2:J:554:TYR:CD1	2.31	0.65
2:K:638:ILE:HD11	2:K:876:MET:SD	2.36	0.65
2:L:309:PHE:HE1	2:L:364:ASN:ND2	1.94	0.65
2:L:355:ASP:OD1	2:L:357:SER:N	2.26	0.65
3:M:48:GLU:HG2	3:M:48:GLU:O	1.95	0.65
4:N:174:GLN:HG2	4:N:176:MET:H	1.62	0.65
5:O:261:TYR:O	5:O:263:GLY:N	2.30	0.65
2:A:51:ALA:HB1	2:A:52:PRO:CD	2.27	0.65
2:A:109:ARG:NH2	2:A:523:LEU:HB2	2.09	0.65
2:A:333:ALA:O	2:A:913:TYR:OH	2.07	0.65
2:B:100:TYR:CD2	2:B:363:TRP:HH2	2.15	0.65
2:B:378:GLU:HB2	2:B:380:HIS:CE1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:661:THR:HB	2:B:662:PRO:CD	2.00	0.65
2:D:84:PHE:CE2	2:D:588:LEU:HB2	2.31	0.65
2:D:531:PHE:HB3	2:D:533:ILE:CD1	2.27	0.65
2:E:112:SER:OG	2:E:301:ASN:ND2	2.30	0.65
2:E:333:ALA:O	2:E:913:TYR:OH	2.14	0.65
2:E:709:ARG:CG	2:E:709:ARG:HH11	2.09	0.65
2:F:291:LEU:C	2:F:291:LEU:HD12	2.21	0.65
2:F:316:ASN:OD1	2:F:342:THR:N	2.29	0.65
2:F:516:LEU:H	2:F:519:ARG:NE	1.93	0.65
2:F:693:LYS:HB2	2:F:879:GLU:CG	2.23	0.65
2:G:496:ARG:NH2	2:G:772:GLN:OE1	2.29	0.65
2:H:202:VAL:O	2:H:262:ALA:HA	1.97	0.65
2:H:664:LEU:HD23	2:H:664:LEU:H	1.60	0.65
2:J:447:TYR:CE1	2:K:385:GLU:HB3	2.32	0.65
2:J:622:ALA:HB2	2:J:894:GLU:HG2	1.78	0.65
2:J:849:SER:OG	2:J:851:ASN:O	2.07	0.65
2:L:187:GLN:O	2:L:188:TRP:C	2.38	0.65
2:A:71:VAL:HB	2:A:83:ARG:O	1.96	0.65
2:A:375:ARG:HE	2:A:507:PRO:HG3	1.62	0.65
2:A:559:ARG:NH1	2:A:564:MET:HG2	2.12	0.65
2:A:735:THR:HG22	2:A:737:ASP:H	1.62	0.65
2:A:813:GLN:HG2	2:C:148:PRO:HD3	1.79	0.65
2:B:149:PHE:HB3	2:B:199:ALA:HB3	1.78	0.65
2:B:593:PHE:HE1	2:C:853:MET:HE1	1.61	0.65
2:C:194:ALA:O	2:C:196:GLN:N	2.30	0.65
2:C:442:TRP:HD1	2:C:489:THR:HB	1.62	0.65
2:C:652:SER:HB3	2:C:892:LEU:HB2	1.78	0.65
2:D:213:TYR:CD1	2:D:213:TYR:O	2.50	0.65
2:D:522:LEU:O	2:D:522:LEU:HD23	1.97	0.65
2:E:615:SER:C	2:E:616:PHE:HD1	2.03	0.65
2:E:881:ASP:CG	2:E:882:PRO:HD2	2.15	0.65
2:F:662:PRO:HB2	2:F:664:LEU:CD2	2.26	0.65
2:G:548:LEU:HD12	2:G:604:GLU:HG3	1.79	0.65
2:H:249:LEU:CG	2:H:250:PRO:CD	2.60	0.65
2:I:336:ASP:HB3	2:I:539:PHE:HE2	1.61	0.65
2:I:379:ASN:OD1	2:I:493:ILE:HA	1.97	0.65
2:J:116:TYR:HB3	2:K:493:ILE:HG12	1.79	0.65
2:J:745:SER:HB3	2:J:847:PRO:CG	2.26	0.65
2:J:896:PHE:CD2	2:L:15:ILE:HG23	2.32	0.65
2:L:176:THR:HG21	2:L:201:ARG:HH11	1.61	0.65
2:L:497:TRP:CH2	2:L:836:LYS:HB3	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:13:LYS:O	6:Q:13:LYS:HG3	1.97	0.65
1:3:16:ARG:HD2	1:3:18:PHE:HE2	1.60	0.65
2:A:96:MET:HG3	2:A:542:ILE:HG22	1.77	0.65
2:A:660:GLU:HG3	2:A:661:THR:HG23	1.79	0.65
2:D:23:TYR:OH	2:D:45:PHE:HB3	1.97	0.65
2:E:81:LYS:HG3	2:E:557:ASN:ND2	2.12	0.65
2:E:729:VAL:HG22	2:E:730:ALA:N	2.11	0.65
2:F:65:THR:HG23	2:F:591:ASN:ND2	2.12	0.65
2:F:376:ILE:HD11	2:F:772:GLN:HG3	1.78	0.65
2:F:636:VAL:HG21	2:F:889:LEU:CD2	2.23	0.65
2:G:126:PRO:HA	2:H:434:GLU:OE1	1.97	0.65
2:G:303:ILE:HG22	2:G:304:GLY:N	2.11	0.65
2:G:382:VAL:HB	2:G:438:ALA:O	1.96	0.65
2:G:496:ARG:HB2	2:I:521:MET:HB3	1.79	0.65
2:G:916:THR:O	2:G:918:PHE:N	2.30	0.65
2:H:314:TYR:OH	2:H:667:GLY:O	2.14	0.65
2:H:720:ARG:NH1	2:H:723:ASP:HB3	2.11	0.65
2:I:634:THR:HG23	6:S:5:MET:HE1	1.76	0.65
2:J:12:TYR:HE1	7:T:43:ARG:CD	2.09	0.65
2:J:20:ALA:HA	2:J:23:TYR:CE2	2.32	0.65
2:J:545:LEU:HA	2:J:616:PHE:CZ	2.32	0.65
2:K:447:TYR:CE1	2:K:452:LEU:HD21	2.32	0.65
2:L:534:GLN:N	2:L:534:GLN:OE1	2.30	0.65
5:O:199:THR:CG2	5:O:204:LEU:HD23	2.27	0.65
6:R:17:PHE:C	6:R:17:PHE:CD1	2.75	0.65
2:A:94:LEU:HB2	2:A:592:PHE:CE1	2.32	0.65
2:A:216:TYR:CE1	2:A:218:LYS:HA	2.32	0.65
2:B:203:LEU:HD11	2:B:265:VAL:HG11	1.78	0.65
2:B:289:ASP:CA	2:B:291:LEU:HG	2.27	0.65
2:B:299:ARG:CD	2:B:300:PRO:HD2	2.25	0.65
2:B:561:ASP:O	2:B:565:ILE:HG12	1.97	0.65
2:B:662:PRO:HB3	2:B:672:PHE:CE1	2.31	0.65
2:C:178:GLN:HB3	2:C:180:GLU:OE2	1.97	0.65
2:C:454:LEU:HD11	2:C:487:LEU:HG	1.78	0.65
2:C:490:TYR:HE2	2:C:797:ASN:HB3	1.58	0.65
2:C:824:ILE:O	2:C:824:ILE:CG1	2.42	0.65
2:D:305:PHE:CD1	2:D:523:LEU:HD11	2.32	0.65
2:D:316:ASN:OD1	2:D:342:THR:HG22	1.97	0.65
2:D:336:ASP:HB2	2:D:539:PHE:CZ	2.32	0.65
2:E:334:VAL:HG23	2:E:542:ILE:HD13	1.79	0.65
2:E:743:MET:HE2	2:E:749:ILE:HG13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:143:VAL:C	2:G:145:GLY:H	2.05	0.65
2:G:272:THR:O	2:G:273:HIS:HB3	1.97	0.65
2:G:318:THR:OG1	2:G:319:GLY:N	2.30	0.65
2:G:497:TRP:HZ3	2:G:775:SER:HA	1.62	0.65
2:H:534:GLN:NE2	2:I:729:VAL:O	2.30	0.65
2:I:84:PHE:N	2:I:554:TYR:O	2.29	0.65
2:I:158:ASN:OD1	2:I:169:GLN:HG3	1.97	0.65
2:I:466:THR:C	2:I:467:LEU:HD12	2.21	0.65
2:J:114:LYS:HD2	2:J:116:TYR:CE1	2.32	0.65
2:K:543:LYS:HG3	2:K:544:ASN:OD1	1.97	0.65
2:L:467:LEU:HD12	2:L:476:TYR:HA	1.78	0.65
3:M:384:ASP:OD1	3:M:398:PRO:CG	2.40	0.65
2:A:437:LEU:C	2:A:437:LEU:CD2	2.70	0.65
2:A:508:PHE:HE2	2:A:841:ARG:HH21	1.45	0.65
2:A:541:ALA:O	2:A:543:LYS:N	2.30	0.65
2:B:790:VAL:CG1	2:B:794:PHE:HB2	2.26	0.65
2:C:113:PHE:CD1	2:C:303:ILE:HB	2.31	0.65
2:C:324:LEU:O	2:C:324:LEU:HG	1.97	0.65
2:C:441:LEU:HD12	2:C:441:LEU:O	1.96	0.65
2:C:446:LEU:HD23	2:C:488:ASP:CA	2.26	0.65
2:C:729:VAL:HB	2:C:736:LYS:HA	1.79	0.65
2:C:744:LEU:O	2:C:744:LEU:HG	1.96	0.65
2:C:805:MET:HA	2:C:805:MET:HE2	1.78	0.65
2:D:53:THR:HA	2:E:860:ASP:OD1	1.97	0.65
2:D:525:ASN:N	2:E:777:GLN:OE1	2.30	0.65
2:E:914:LEU:CD1	7:T:106:ALA:HB3	2.26	0.65
2:G:33:ARG:HH11	2:G:33:ARG:HG2	1.62	0.65
2:G:96:MET:HE2	2:G:324:LEU:HD21	1.79	0.65
2:G:114:LYS:NZ	2:G:298:ASN:HB2	2.11	0.65
2:G:121:TYR:HD2	2:G:216:TYR:HB2	1.62	0.65
2:G:210:LEU:HG	2:G:211:PRO:HD2	1.79	0.65
2:G:250:PRO:HD3	2:I:402:TYR:CE1	2.32	0.65
2:G:324:LEU:HD22	2:G:542:ILE:HG12	1.79	0.65
2:G:379:ASN:ND2	2:G:493:ILE:HA	2.12	0.65
2:H:182:GLN:HE21	2:H:182:GLN:C	2.05	0.65
2:H:405:ILE:HD11	2:H:410:GLN:NE2	2.12	0.65
2:I:377:ILE:HD11	2:I:446:LEU:CD2	2.27	0.65
2:I:746:HIS:HE2	2:I:845:ARG:HG3	1.62	0.65
2:J:198:VAL:HG12	2:J:199:ALA:N	2.10	0.65
2:J:215:SER:HB2	2:K:816:PRO:HB3	1.79	0.65
2:J:878:PHE:CG	2:J:889:LEU:HD11	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:49:THR:CG2	2:L:857:ALA:H	2.09	0.65
2:K:261:TYR:O	2:K:261:TYR:CD1	2.49	0.65
2:K:412:TRP:HE3	2:K:413:THR:OG1	1.79	0.65
3:M:259:LYS:NZ	3:M:266:GLY:O	2.29	0.65
2:B:210:LEU:HB3	2:B:211:PRO:HD2	1.78	0.64
2:C:819:TYR:CD1	2:C:820:PRO:HB3	2.32	0.64
2:D:246:PHE:CD1	2:D:259:VAL:HG22	2.31	0.64
2:D:382:VAL:HG21	2:D:439:ALA:HB2	1.77	0.64
2:D:573:ASP:HB3	2:D:673:THR:HB	1.78	0.64
2:E:78:TYR:CD2	2:E:668:PHE:HB2	2.32	0.64
2:F:735:THR:O	2:F:737:ASP:N	2.30	0.64
2:G:358:ARG:HH11	2:G:358:ARG:CG	2.00	0.64
2:G:529:VAL:O	2:G:529:VAL:HG23	1.95	0.64
2:H:114:LYS:HZ1	2:H:299:ARG:C	2.05	0.64
2:H:537:GLN:HG2	2:H:542:ILE:HG22	1.77	0.64
2:H:637:PRO:HB3	2:H:877:THR:CG2	2.28	0.64
2:H:692:LYS:HB2	2:H:879:GLU:HB3	1.79	0.64
2:H:743:MET:HG2	2:H:749:ILE:HD11	1.79	0.64
2:I:71:VAL:HG21	2:I:85:THR:CG2	2.27	0.64
2:K:94:LEU:HD23	2:K:95:ASP:N	2.12	0.64
2:K:356:ARG:HB3	2:K:356:ARG:NH1	2.11	0.64
2:K:874:LEU:CD2	2:K:876:MET:HG3	2.27	0.64
2:L:81:LYS:HD2	2:L:557:ASN:ND2	2.12	0.64
2:L:308:ASN:HB3	2:L:310:ILE:HD11	1.78	0.64
2:A:296:ALA:HB1	2:A:297:PRO:CD	2.27	0.64
2:A:325:ALA:HB3	2:A:553:THR:HG22	1.79	0.64
2:A:328:ALA:O	2:A:330:GLN:N	2.31	0.64
2:A:642:SER:CA	2:A:873:ALA:HB2	2.28	0.64
2:A:655:ARG:HH21	2:A:690:THR:HG21	1.61	0.64
2:B:917:PRO:HD2	2:B:918:PHE:N	2.12	0.64
2:C:129:ALA:HB3	2:C:212:CYS:SG	2.38	0.64
2:C:158:ASN:HB3	2:C:169:GLN:HB3	1.79	0.64
2:C:271:ASP:N	2:C:271:ASP:OD1	2.30	0.64
2:C:309:PHE:CE1	2:C:364:ASN:CB	2.80	0.64
2:C:497:TRP:NE1	2:C:500:ASP:OD1	2.29	0.64
2:C:562:VAL:CG2	2:C:579:ALA:HB1	2.27	0.64
2:C:626:LEU:HD22	2:C:888:LEU:HD21	1.79	0.64
2:C:802:VAL:HG22	2:C:803:GLY:H	1.63	0.64
2:C:820:PRO:O	2:C:820:PRO:HG2	1.98	0.64
2:C:821:TYR:HB3	2:C:822:PRO:HD3	1.77	0.64
2:D:459:LYS:HB3	2:D:481:VAL:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:694:VAL:HG13	2:F:716:PHE:HB2	1.79	0.64
2:G:661:THR:HG21	2:G:888:LEU:CD1	2.27	0.64
2:G:711:LEU:O	2:G:711:LEU:CG	2.43	0.64
2:H:910:GLU:OE1	7:U:166:SER:HA	1.96	0.64
2:I:115:PRO:O	2:I:302:TYR:HE1	1.80	0.64
2:I:268:GLU:O	2:I:270:PRO:HD3	1.97	0.64
2:I:447:TYR:CD2	2:I:484:PRO:HB3	2.32	0.64
2:J:25:SER:N	2:K:612:ASN:HD21	1.95	0.64
2:J:69:VAL:CG2	2:J:70:PRO:HD2	2.26	0.64
2:J:561:ASP:O	2:J:565:ILE:HD12	1.97	0.64
2:K:401:THR:O	2:K:401:THR:HG22	1.96	0.64
2:K:412:TRP:CE3	2:K:413:THR:N	2.65	0.64
2:K:466:THR:C	2:K:467:LEU:HD23	2.22	0.64
2:K:582:ARG:HH11	2:K:582:ARG:HG2	1.62	0.64
2:L:121:TYR:O	2:L:123:SER:N	2.29	0.64
2:L:272:THR:CG2	2:L:295:ALA:HB1	2.27	0.64
2:L:299:ARG:HD3	2:L:453:TYR:CE1	2.33	0.64
2:L:349:MET:HE1	2:L:543:LYS:HD2	1.77	0.64
2:L:450:VAL:HG22	2:L:450:VAL:O	1.95	0.64
2:L:564:MET:HG2	2:L:564:MET:O	1.96	0.64
3:M:441:ILE:O	3:M:441:ILE:CG2	2.45	0.64
1:8:16:ARG:CG	2:C:47:ASN:HD22	2.10	0.64
2:A:70:PRO:HD3	2:A:586:ILE:O	1.97	0.64
2:A:904:PRO:CD	2:A:908:VAL:HG13	2.23	0.64
2:B:306:ARG:HB3	2:B:310:ILE:HG12	1.79	0.64
2:B:360:PHE:HB2	2:C:768:PHE:CZ	2.32	0.64
2:C:344:LEU:O	2:C:345:SER:C	2.37	0.64
2:C:608:ARG:NH1	2:C:608:ARG:HG3	2.12	0.64
2:C:654:THR:HG23	2:C:688:ASN:OD1	1.98	0.64
2:C:791:THR:OG1	2:C:791:THR:O	2.11	0.64
2:D:123:SER:C	2:D:125:ALA:N	2.48	0.64
2:D:334:VAL:CG2	2:D:542:ILE:HD11	2.27	0.64
2:D:427:SER:HB2	2:E:198:VAL:HG21	1.79	0.64
2:D:509:ASN:ND2	2:D:676:GLY:HA2	2.11	0.64
2:D:629:ILE:CD1	2:D:880:VAL:HG21	2.28	0.64
2:E:39:PHE:CZ	2:F:546:LEU:HD11	2.32	0.64
2:E:189:ASN:HD22	2:E:190:SER:CB	2.09	0.64
2:F:563:ASN:ND2	2:F:574:LEU:HB2	2.12	0.64
2:F:636:VAL:O	2:F:636:VAL:HG23	1.96	0.64
2:G:10:TRP:CG	2:G:15:ILE:HG21	2.32	0.64
2:G:298:ASN:HB3	2:G:474:TYR:OH	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:401:THR:CA	2:H:424:GLU:HG3	2.27	0.64
2:I:300:PRO:O	2:I:570:LEU:HD11	1.98	0.64
2:J:148:PRO:O	2:J:150:ILE:N	2.30	0.64
2:J:178:GLN:NE2	2:K:795:GLN:O	2.21	0.64
2:J:324:LEU:CD1	2:J:554:TYR:HD1	2.10	0.64
2:J:455:PRO:HD2	2:J:458:TYR:HD2	1.62	0.64
2:K:12:TYR:O	2:L:900:ARG:NE	2.29	0.64
2:K:276:TYR:O	2:K:278:PRO:HD3	1.97	0.64
2:K:534:GLN:N	2:K:534:GLN:OE1	2.31	0.64
2:K:750:GLY:HA2	2:K:754:PHE:CE1	2.32	0.64
2:K:924:THR:HG23	7:T:45:ASN:HD21	1.62	0.64
2:L:19:ASP:OD1	2:L:47:ASN:HB2	1.96	0.64
2:L:183:VAL:O	2:L:184:GLY:C	2.39	0.64
2:L:224:GLY:O	2:L:226:GLN:NE2	2.30	0.64
2:L:228:SER:OG	2:L:229:LEU:N	2.29	0.64
2:L:371:ASP:HB3	2:L:374:VAL:CG2	2.26	0.64
2:L:378:GLU:OE1	2:L:496:ARG:HG3	1.97	0.64
3:M:196:GLY:O	3:M:197:VAL:CG2	2.45	0.64
2:A:67:ARG:HD2	2:A:587:ASN:ND2	2.12	0.64
2:A:76:THR:HB	2:A:79:SER:OG	1.98	0.64
2:A:107:LEU:HD23	2:A:108:ASP:N	2.12	0.64
2:A:889:LEU:CD2	2:A:891:VAL:HG23	2.27	0.64
2:B:249:LEU:HD21	2:B:257:LYS:CD	2.28	0.64
2:B:470:ASN:O	2:B:472:ASN:N	2.29	0.64
2:C:301:ASN:O	2:C:303:ILE:N	2.31	0.64
2:C:334:VAL:O	2:C:334:VAL:CG1	2.45	0.64
2:C:744:LEU:HD13	2:C:749:ILE:O	1.97	0.64
2:C:865:MET:HB3	2:C:869:ASN:HD22	1.62	0.64
2:D:247:PHE:CZ	2:F:403:SER:CA	2.79	0.64
2:E:60:ARG:HD2	2:E:597:HIS:CD2	2.32	0.64
2:E:117:SER:HA	2:E:300:PRO:HB3	1.77	0.64
2:E:487:LEU:HD23	2:E:491:VAL:HG21	1.78	0.64
2:F:188:TRP:O	2:F:188:TRP:CG	2.47	0.64
2:F:711:LEU:HD22	2:F:727:TYR:CZ	2.32	0.64
2:G:15:ILE:HD11	2:H:896:PHE:CD2	2.30	0.64
2:G:250:PRO:O	2:G:250:PRO:HD2	1.97	0.64
2:G:629:ILE:HD11	2:G:636:VAL:HG11	1.79	0.64
2:G:889:LEU:CD2	2:G:891:VAL:HG23	2.27	0.64
2:H:486:ALA:O	2:H:487:LEU:HD12	1.97	0.64
2:H:704:TRP:O	2:H:704:TRP:CG	2.46	0.64
2:I:688:ASN:ND2	2:I:842:THR:HG23	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:718:ILE:C	2:I:735:THR:HG23	2.21	0.64
2:J:335:VAL:HG12	2:J:913:TYR:CE1	2.33	0.64
2:L:698:PHE:CE1	2:L:874:LEU:HG	2.32	0.64
2:L:770:ASN:HD22	2:L:841:ARG:HB3	1.61	0.64
2:L:869:ASN:HD21	7:U:21:ALA:CB	2.11	0.64
6:Q:26:PRO:HB3	6:Q:28:TRP:CZ2	2.33	0.64
1:0:22:ARG:HD3	2:G:19:ASP:OD2	1.98	0.64
2:A:389:TYR:CE1	2:C:433:MET:CE	2.78	0.64
2:A:711:LEU:HD21	2:A:727:TYR:CE1	2.31	0.64
2:A:819:TYR:O	2:A:819:TYR:CG	2.41	0.64
2:A:902:HIS:O	2:A:902:HIS:CG	2.49	0.64
2:B:259:VAL:CG1	2:B:259:VAL:O	2.41	0.64
2:B:611:THR:HG21	5:O:26:PRO:HD2	1.79	0.64
2:B:629:ILE:HD11	2:B:889:LEU:CD2	2.27	0.64
2:C:110:GLY:C	2:C:112:SER:H	2.06	0.64
2:C:211:PRO:O	2:C:211:PRO:CG	2.45	0.64
2:C:386:LEU:HD22	2:C:387:PRO:HD2	1.74	0.64
2:C:733:ASN:OD1	2:C:733:ASN:C	2.41	0.64
2:C:742:GLN:NE2	2:C:845:ARG:O	2.30	0.64
2:D:177:TYR:CE1	2:E:813:GLN:CB	2.80	0.64
2:E:16:ALA:HB2	2:F:858:LEU:HD13	1.80	0.64
2:E:116:TYR:HB3	2:F:493:ILE:CD1	2.26	0.64
2:E:709:ARG:HH11	2:E:709:ARG:HG2	1.62	0.64
2:G:15:ILE:HD12	2:H:898:VAL:HG11	1.80	0.64
2:G:63:ARG:HH21	2:H:711:LEU:HD12	1.63	0.64
2:G:471:LYS:HG2	2:G:476:TYR:CE2	2.33	0.64
2:H:177:TYR:O	2:H:178:GLN:C	2.39	0.64
2:H:302:TYR:CE2	2:H:517:ARG:HA	2.33	0.64
2:H:781:THR:HG23	2:H:787:TYR:CE2	2.33	0.64
2:I:890:TYR:HE1	2:I:892:LEU:HD21	1.63	0.64
2:J:188:TRP:O	2:J:188:TRP:CG	2.45	0.64
2:J:375:ARG:NH1	2:J:507:PRO:HG2	2.12	0.64
2:J:563:ASN:HD22	2:J:574:LEU:HB2	1.63	0.64
2:J:805:MET:HA	2:J:805:MET:CE	2.22	0.64
2:K:15:ILE:CD1	2:L:896:PHE:HD2	2.07	0.64
2:K:562:VAL:HG21	2:K:579:ALA:HB1	1.79	0.64
2:K:800:GLY:N	2:K:811:GLU:O	2.31	0.64
3:M:70:VAL:HG13	3:M:495:LEU:HD21	1.79	0.64
3:M:131:ASN:O	3:M:133:ASN:N	2.29	0.64
2:B:302:TYR:HD2	2:B:517:ARG:HA	1.63	0.64
2:C:349:MET:O	2:C:349:MET:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:365:GLN:O	2:C:366:ALA:C	2.41	0.64
2:C:691:PHE:HB3	2:C:718:ILE:CD1	2.22	0.64
2:D:320:ASN:CG	2:D:557:ASN:HD22	2.04	0.64
2:D:388:ASN:CB	2:D:437:LEU:HD13	2.28	0.64
2:D:573:ASP:CB	2:D:673:THR:HB	2.27	0.64
2:F:337:LEU:HD21	4:N:191:LYS:HZ2	1.62	0.64
2:F:671:TYR:CZ	6:Q:47:PRO:HA	2.33	0.64
2:F:734:MET:HE3	2:F:738:TRP:HB3	1.77	0.64
2:F:837:PHE:HZ	2:F:844:TRP:HH2	1.46	0.64
2:G:154:ILE:HG23	2:G:197:LYS:CG	2.27	0.64
2:G:382:VAL:CG2	2:G:439:ALA:HB2	2.23	0.64
2:G:456:ASP:OD2	2:G:480:ARG:HG3	1.97	0.64
2:G:890:TYR:CE1	2:G:892:LEU:HB2	2.32	0.64
2:H:545:LEU:HD12	2:H:546:LEU:H	1.63	0.64
2:I:710:LEU:HD12	2:I:737:ASP:HB2	1.80	0.64
2:I:734:MET:SD	2:I:739:PHE:HB2	2.37	0.64
2:J:219:PRO:HG2	2:K:821:TYR:CE1	2.32	0.64
2:J:697:MET:CE	2:J:701:SER:HA	2.27	0.64
2:K:268:GLU:HB2	2:K:270:PRO:CD	2.26	0.64
5:O:264:HIS:O	5:O:265:LEU:C	2.41	0.64
1:1:16:ARG:H	1:1:17:PRO:HD3	1.60	0.64
1:4:21:THR:HB	2:C:50:VAL:CG2	2.28	0.64
2:B:81:LYS:HE3	3:M:392:THR:HG23	1.80	0.64
2:B:306:ARG:CA	2:B:519:ARG:HH11	2.10	0.64
2:B:779:VAL:HG13	2:B:787:TYR:CE2	2.33	0.64
2:C:218:LYS:HZ3	2:C:218:LYS:CB	2.08	0.64
2:C:608:ARG:HH11	2:C:608:ARG:CG	2.11	0.64
2:C:710:LEU:HG	2:C:711:LEU:H	1.63	0.64
2:C:744:LEU:HD21	2:C:751:TYR:CE2	2.32	0.64
2:C:747:TYR:O	2:C:749:ILE:HG23	1.98	0.64
2:D:171:ILE:HG22	2:D:172:TYR:N	2.11	0.64
2:E:819:TYR:N	2:E:820:PRO:HD3	1.96	0.64
2:F:113:PHE:CD1	2:F:303:ILE:HB	2.33	0.64
2:F:249:LEU:O	2:F:249:LEU:HG	1.97	0.64
2:F:296:ALA:HB1	2:F:297:PRO:CD	2.26	0.64
2:F:705:PRO:HB3	2:F:716:PHE:CZ	2.32	0.64
2:F:727:TYR:O	2:F:728:ASN:HB3	1.95	0.64
2:F:738:TRP:O	2:F:741:ILE:N	2.30	0.64
2:G:115:PRO:HD2	2:H:824:ILE:HD13	1.79	0.64
2:G:364:ASN:HD21	2:G:519:ARG:HB3	1.63	0.64
2:G:371:ASP:OD1	2:G:371:ASP:C	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:742:GLN:HA	2:G:742:GLN:OE1	1.98	0.64
2:G:855:MET:HE1	2:H:38:TYR:CE2	2.33	0.64
2:G:896:PHE:CE2	2:I:15:ILE:HD13	2.32	0.64
2:H:164:THR:HG22	2:H:168:ASN:CB	2.27	0.64
2:J:118:GLY:O	2:J:297:PRO:HB3	1.97	0.64
2:J:130:PRO:O	2:J:130:PRO:CG	2.46	0.64
2:J:172:TYR:CD1	2:J:172:TYR:O	2.51	0.64
2:J:216:TYR:CG	2:J:217:ALA:N	2.65	0.64
2:J:273:HIS:ND1	2:J:273:HIS:O	2.31	0.64
2:J:296:ALA:HB1	2:J:297:PRO:HD2	1.80	0.64
2:J:650:GLY:O	2:J:894:GLU:HB2	1.98	0.64
2:J:710:LEU:CD2	2:J:737:ASP:HB2	2.27	0.64
2:J:801:PHE:HA	2:K:391:PHE:CE2	2.32	0.64
2:J:920:ALA:O	4:N:172:THR:HG22	1.97	0.64
2:K:135:TRP:HB3	2:K:141:ILE:HG13	1.77	0.64
2:L:176:THR:HG21	2:L:179:PRO:HD3	1.78	0.64
2:L:271:ASP:O	2:L:272:THR:OG1	2.15	0.64
2:L:278:PRO:O	2:L:464:ASN:ND2	2.29	0.64
2:L:655:ARG:NE	2:L:880:VAL:HG11	2.13	0.64
2:L:784:TYR:HD2	2:L:830:PRO:HD2	1.61	0.64
3:M:222:VAL:O	3:M:283:LEU:HB3	1.96	0.64
6:P:33:GLN:HB3	6:P:35:VAL:HG23	1.78	0.64
7:T:199:VAL:HG22	7:T:200:PRO:HD2	1.79	0.64
1:5:29:GLN:CD	2:F:33:ARG:HG2	2.23	0.64
2:A:268:GLU:CD	2:A:268:GLU:H	2.06	0.64
2:B:243:ASN:O	2:B:261:TYR:HA	1.98	0.64
2:B:656:LEU:HD23	2:B:661:THR:HG1	1.62	0.64
2:B:848:PHE:HZ	2:B:861:LEU:HB3	1.57	0.64
2:C:148:PRO:HG2	2:C:148:PRO:O	1.97	0.64
2:C:179:PRO:CD	2:C:201:ARG:CD	2.74	0.64
2:C:631:SER:OG	2:C:886:PRO:HG3	1.98	0.64
2:D:409:GLY:O	2:D:410:GLN:C	2.41	0.64
2:E:379:ASN:ND2	2:E:493:ILE:HD13	2.12	0.64
2:E:792:LEU:H	2:E:793:PRO:HD3	1.63	0.64
2:F:447:TYR:CZ	2:F:452:LEU:HD21	2.33	0.64
2:G:379:ASN:O	2:G:381:GLY:N	2.30	0.64
2:G:497:TRP:CZ2	2:G:836:LYS:NZ	2.66	0.64
2:G:655:ARG:HB3	2:G:687:LEU:HB3	1.80	0.64
2:H:308:ASN:O	2:H:538:LYS:NZ	2.30	0.64
2:H:549:PRO:HG2	2:H:604:GLU:OE1	1.98	0.64
2:H:718:ILE:HG22	2:H:738:TRP:CD1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:181:PRO:HG2	2:I:181:PRO:O	1.96	0.64
2:I:810:ARG:HG3	2:I:810:ARG:O	1.97	0.64
2:J:84:PHE:N	2:J:554:TYR:O	2.22	0.64
2:J:822:PRO:HD3	2:L:216:TYR:CZ	2.32	0.64
2:K:132:PRO:CA	2:K:143:VAL:HG23	2.26	0.64
2:K:245:GLN:O	2:K:259:VAL:HG13	1.97	0.64
2:L:113:PHE:CD1	2:L:303:ILE:HD12	2.33	0.64
2:L:131:ASN:OD1	2:L:212:CYS:HA	1.98	0.64
2:L:513:ASN:ND2	2:L:516:LEU:H	1.95	0.64
2:L:645:TRP:CZ2	2:L:874:LEU:HD12	2.33	0.64
3:M:197:VAL:HG13	3:M:201:ASP:OD2	1.98	0.64
1:4:24:GLU:HG2	1:4:24:GLU:O	1.98	0.64
1:5:21:THR:O	1:5:21:THR:OG1	2.04	0.64
2:A:439:ALA:O	2:A:440:ASN:C	2.40	0.64
2:A:516:LEU:HD21	2:A:567:GLN:HG3	1.79	0.64
2:A:537:GLN:NE2	2:A:542:ILE:HB	2.11	0.64
2:A:797:ASN:O	2:A:799:SER:N	2.30	0.64
2:B:330:GLN:HE21	2:B:330:GLN:CA	2.07	0.64
2:B:734:MET:HE1	2:B:739:PHE:CD2	2.32	0.64
2:B:890:TYR:CG	2:B:890:TYR:O	2.51	0.64
2:C:150:ILE:HA	2:C:198:VAL:HB	1.79	0.64
2:C:162:ILE:HG22	2:C:163:GLY:H	1.63	0.64
2:C:217:ALA:O	2:C:218:LYS:C	2.40	0.64
2:C:605:ALA:CB	7:T:89:VAL:CG1	2.76	0.64
2:D:123:SER:C	2:D:125:ALA:H	2.04	0.64
2:D:401:THR:HG21	2:D:425:ILE:CG2	2.27	0.64
2:D:481:VAL:HB	2:D:807:PRO:HD3	1.80	0.64
2:D:573:ASP:OD1	2:D:573:ASP:O	2.16	0.64
2:D:904:PRO:HG2	2:D:908:VAL:HG21	1.78	0.64
2:E:491:VAL:HG22	2:E:492:ASN:ND2	2.12	0.64
2:E:658:THR:HG22	2:E:886:PRO:HB2	1.79	0.64
2:F:135:TRP:CZ3	2:F:205:ASP:HA	2.31	0.64
2:F:299:ARG:NH2	2:F:570:LEU:HD11	2.12	0.64
2:G:94:LEU:HB2	2:G:592:PHE:CZ	2.32	0.64
2:G:200:GLY:O	2:G:260:LEU:HA	1.97	0.64
2:G:356:ARG:CG	2:G:356:ARG:NH1	2.60	0.64
2:G:693:LYS:HE2	2:G:715:GLU:HG3	1.80	0.64
2:G:896:PHE:CE2	2:I:15:ILE:HG23	2.33	0.64
2:H:302:TYR:HE2	2:H:517:ARG:HG3	1.63	0.64
2:H:309:PHE:CE2	2:H:533:ILE:HD12	2.33	0.64
2:I:69:VAL:CG1	2:I:70:PRO:HD2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:72:ASP:OD2	2:I:83:ARG:HD3	1.98	0.64
2:I:152:THR:CG2	2:I:197:LYS:HE2	2.28	0.64
2:I:335:VAL:HB	2:I:913:TYR:CE2	2.33	0.64
2:J:44:LYS:HB3	2:K:616:PHE:CZ	2.33	0.64
2:J:107:LEU:O	2:J:107:LEU:CG	2.43	0.64
2:J:172:TYR:HD1	2:J:242:VAL:HB	1.56	0.64
2:J:210:LEU:HB3	2:J:211:PRO:CD	2.23	0.64
2:K:302:TYR:O	2:K:516:LEU:HD11	1.97	0.64
2:K:435:ILE:HD13	2:L:390:CYS:HA	1.80	0.64
2:K:445:PHE:O	2:K:449:ASN:ND2	2.31	0.64
2:K:801:PHE:HA	2:L:391:PHE:CE2	2.32	0.64
2:L:497:TRP:NE1	2:L:776:ARG:HE	1.95	0.64
3:M:69:LEU:CD1	3:M:93:VAL:CG1	2.76	0.64
3:M:150:LYS:HG3	3:M:155:GLY:C	2.22	0.64
3:M:281:ALA:HB3	3:M:336:ASN:HA	1.79	0.64
3:M:342:SER:HB3	3:M:345:LEU:HD13	1.79	0.64
6:S:5:MET:O	6:S:7:GLY:N	2.31	0.64
2:A:51:ALA:HB1	2:A:52:PRO:HD2	1.78	0.64
2:A:545:LEU:O	2:A:545:LEU:HD12	1.97	0.64
2:A:550:GLY:HA2	2:A:906:ARG:NH1	2.12	0.64
2:B:154:ILE:HD13	2:B:259:VAL:CG2	2.28	0.64
2:B:742:GLN:HA	2:B:742:GLN:NE2	2.13	0.64
2:C:376:ILE:HG22	2:C:376:ILE:O	1.98	0.64
2:D:187:GLN:NE2	2:D:187:GLN:CA	2.58	0.64
2:D:398:ALA:HB1	2:D:425:ILE:O	1.98	0.64
2:D:483:VAL:HA	2:D:806:GLY:H	1.63	0.64
2:D:545:LEU:HA	2:D:616:PHE:CZ	2.33	0.64
2:E:107:LEU:CD2	2:E:109:ARG:HG3	2.28	0.64
2:E:113:PHE:CD2	2:E:303:ILE:HB	2.32	0.64
2:E:748:ASN:O	2:E:748:ASN:CG	2.36	0.64
2:E:895:VAL:CG1	2:E:917:PRO:HB2	2.28	0.64
2:F:649:ARG:HG2	2:F:896:PHE:CE1	2.32	0.64
2:G:497:TRP:CE2	2:G:776:ARG:HD3	2.33	0.64
2:H:631:SER:HB3	6:R:11:SER:O	1.97	0.64
2:I:73:ARG:HD2	2:I:80:TYR:OH	1.98	0.64
2:I:190:SER:C	2:I:191:GLU:HG3	2.23	0.64
2:I:200:GLY:O	2:I:260:LEU:HG	1.98	0.64
2:I:677:SER:OG	2:I:684:THR:HG21	1.98	0.64
2:J:202:VAL:HG13	2:J:260:LEU:HD13	1.80	0.64
2:J:451:ALA:C	2:J:453:TYR:N	2.53	0.64
2:J:770:ASN:ND2	2:J:841:ARG:HB3	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:229:LEU:N	2:K:229:LEU:HD23	2.12	0.64
2:K:388:ASN:HD22	2:K:437:LEU:HB2	1.61	0.64
2:L:210:LEU:CB	2:L:211:PRO:CD	2.71	0.64
2:L:389:TYR:HB3	2:L:391:PHE:HE1	1.62	0.64
2:L:744:LEU:HD11	2:L:853:MET:CG	2.28	0.64
2:L:770:ASN:ND2	2:L:841:ARG:HB3	2.12	0.64
3:M:127:THR:HG22	3:M:490:TYR:O	1.98	0.64
3:M:260:ARG:CZ	3:M:361:LEU:HD13	2.27	0.64
5:O:255:THR:HG22	5:O:255:THR:O	1.96	0.64
2:A:828:ALA:HB3	2:C:527:ARG:HD3	1.80	0.63
2:B:154:ILE:CG2	2:B:160:ILE:HD13	2.27	0.63
2:B:178:GLN:O	2:B:181:PRO:HD2	1.98	0.63
2:C:129:ALA:HB1	2:C:130:PRO:HD2	1.80	0.63
2:C:291:LEU:O	2:C:291:LEU:HD13	1.98	0.63
2:C:639:SER:OG	2:C:875:ASP:OD1	2.12	0.63
2:C:820:PRO:O	2:C:820:PRO:CG	2.47	0.63
2:C:861:LEU:HD11	2:C:867:TYR:CE2	2.33	0.63
2:D:121:TYR:O	2:D:123:SER:N	2.31	0.63
2:D:384:ASP:OD2	2:D:436:ASN:ND2	2.31	0.63
2:E:197:LYS:HE3	2:E:257:LYS:HA	1.80	0.63
2:E:313:MET:O	2:E:315:TYR:N	2.32	0.63
2:E:402:TYR:CA	2:F:250:PRO:HA	2.27	0.63
2:F:218:LYS:HZ3	2:F:218:LYS:CB	2.10	0.63
2:F:291:LEU:HD12	2:F:291:LEU:O	1.98	0.63
2:F:316:ASN:HA	2:F:336:ASP:OD2	1.98	0.63
2:F:393:LEU:O	2:F:393:LEU:HG	1.98	0.63
2:G:250:PRO:CD	2:G:250:PRO:O	2.45	0.63
2:G:270:PRO:O	2:G:271:ASP:HB3	1.96	0.63
2:G:282:GLN:N	2:G:282:GLN:OE1	2.30	0.63
2:G:331:LEU:O	2:G:332:ASN:HB2	1.96	0.63
2:G:401:THR:HA	2:G:424:GLU:HB2	1.80	0.63
2:G:654:THR:HG22	2:G:655:ARG:H	1.63	0.63
2:G:745:SER:HB2	2:G:847:PRO:HG3	1.80	0.63
2:H:318:THR:OG1	2:J:713:PRO:HG2	1.98	0.63
2:H:678:VAL:O	2:H:678:VAL:HG13	1.97	0.63
2:H:692:LYS:HA	2:H:719:LYS:HB2	1.78	0.63
2:J:110:GLY:HA2	2:J:527:ARG:NH1	2.11	0.63
2:J:147:ALA:HB1	2:J:148:PRO:HD3	0.69	0.63
2:J:744:LEU:HB3	2:J:852:PHE:O	1.97	0.63
2:K:15:ILE:HD13	2:L:898:VAL:HG21	1.81	0.63
2:K:643:ARG:HD3	7:T:28:SER:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:643:ARG:NH1	2:K:643:ARG:HB2	2.13	0.63
3:M:69:LEU:HD12	3:M:93:VAL:HG12	1.80	0.63
5:O:57:PRO:HD3	9:W:9:UNK:HA	1.80	0.63
5:O:274:GLY:O	5:O:278:VAL:HG23	1.97	0.63
2:A:229:LEU:O	2:A:230:ILE:HB	1.97	0.63
2:B:348:LEU:HB3	2:B:619:TYR:HD2	1.63	0.63
2:B:434:GLU:OE2	2:B:436:ASN:N	2.25	0.63
2:B:606:MET:SD	5:O:23:GLN:HG2	2.37	0.63
2:B:874:LEU:H	2:B:874:LEU:CD1	2.11	0.63
2:C:345:SER:O	2:C:347:GLN:N	2.29	0.63
2:C:608:ARG:HG3	2:C:608:ARG:HH11	1.61	0.63
2:C:743:MET:HE1	2:C:749:ILE:HD11	1.81	0.63
2:D:107:LEU:CD2	2:D:109:ARG:HG2	2.27	0.63
2:D:212:CYS:C	2:D:214:GLY:N	2.51	0.63
2:D:809:MET:HB2	2:E:389:TYR:CE2	2.33	0.63
2:D:809:MET:HE1	2:D:810:ARG:NH1	2.13	0.63
2:D:810:ARG:HG3	2:D:811:GLU:H	1.63	0.63
2:F:356:ARG:HB3	2:F:367:VAL:HG11	1.80	0.63
2:F:837:PHE:O	2:F:837:PHE:CG	2.50	0.63
2:F:871:ALA:HB3	4:N:178:PRO:O	1.98	0.63
2:G:744:LEU:HD21	2:G:751:TYR:CE2	2.34	0.63
2:H:158:ASN:HD22	2:H:158:ASN:N	1.93	0.63
2:H:280:VAL:HA	2:H:285:ILE:HD11	1.81	0.63
2:H:435:ILE:CG2	2:H:437:LEU:HD22	2.28	0.63
2:I:405:ILE:O	2:I:415:ASP:N	2.30	0.63
2:I:410:GLN:O	2:I:410:GLN:CD	2.40	0.63
2:I:638:ILE:HD11	2:I:876:MET:SD	2.38	0.63
2:I:705:PRO:O	2:I:707:ASN:N	2.32	0.63
2:J:101:PHE:CZ	2:J:554:TYR:HE2	2.16	0.63
2:J:425:ILE:H	2:K:143:VAL:HG11	1.61	0.63
2:J:572:ASN:N	2:J:675:SER:OG	2.31	0.63
2:K:649:ARG:HD3	2:K:894:GLU:HG2	1.79	0.63
2:K:765:TYR:O	2:K:842:THR:HG22	1.98	0.63
2:K:799:SER:HB2	2:K:814:ALA:HA	1.80	0.63
2:L:56:VAL:HG23	2:L:57:THR:CG2	2.18	0.63
2:L:245:GLN:HB3	2:L:247:PHE:HE1	1.60	0.63
2:L:299:ARG:NH1	2:L:570:LEU:HD11	2.07	0.63
2:L:344:LEU:HD22	2:L:620:LEU:CD2	2.26	0.63
2:L:629:ILE:CD1	2:L:889:LEU:HB2	2.27	0.63
2:L:718:ILE:HG22	2:L:719:LYS:HG3	1.80	0.63
5:O:286:ILE:O	5:O:289:VAL:HG12	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:16:VAL:HG13	6:Q:31:VAL:CG2	2.26	0.63
1:8:19:MET:CE	2:C:29:VAL:HG11	2.29	0.63
2:A:718:ILE:HG12	2:A:738:TRP:CE2	2.33	0.63
2:A:810:ARG:NH1	2:A:810:ARG:HB2	2.12	0.63
2:B:182:GLN:HB3	2:B:185:GLN:HB2	1.79	0.63
2:B:299:ARG:H	2:B:478:ASN:HD21	1.46	0.63
2:B:356:ARG:HB3	2:B:764:MET:SD	2.38	0.63
2:B:371:ASP:O	2:B:372:PRO:C	2.41	0.63
2:B:661:THR:HG21	2:B:680:TYR:CB	2.29	0.63
2:C:60:ARG:NH2	7:T:93:ARG:HH11	1.95	0.63
2:C:290:LEU:H	2:C:290:LEU:CD1	2.11	0.63
2:C:689:HIS:CD2	2:C:836:LYS:HE3	2.33	0.63
2:C:715:GLU:O	2:C:717:GLU:N	2.32	0.63
2:C:747:TYR:CD2	2:C:757:PRO:HB3	2.33	0.63
2:D:16:ALA:CB	2:E:858:LEU:HD22	2.29	0.63
2:D:66:LEU:HD13	2:D:592:PHE:CE2	2.33	0.63
2:D:226:GLN:NE2	2:E:816:PRO:HG2	2.14	0.63
2:D:811:GLU:OE2	2:F:184:GLY:CA	2.46	0.63
2:E:73:ARG:HD2	2:E:80:TYR:OH	1.99	0.63
2:E:312:LEU:HD12	2:E:565:ILE:HB	1.80	0.63
2:E:360:PHE:CE1	2:E:362:MET:HB2	2.27	0.63
2:E:396:SER:OG	2:E:397:ALA:N	2.31	0.63
2:E:447:TYR:HE1	2:E:482:ALA:HB3	1.63	0.63
2:E:762:ASP:OD2	2:E:768:PHE:HB3	1.98	0.63
2:E:855:MET:HE3	2:E:860:ASP:HB2	1.80	0.63
2:F:173:ALA:HB1	2:F:221:ASN:HD21	1.59	0.63
2:F:318:THR:O	2:H:713:PRO:HG2	1.99	0.63
2:F:709:ARG:O	2:F:710:LEU:HB2	1.98	0.63
2:G:294:GLN:HE22	2:G:808:THR:HA	1.64	0.63
2:G:364:ASN:OD1	2:G:519:ARG:HG2	1.98	0.63
2:G:919:SER:OG	2:G:920:ALA:N	2.26	0.63
2:H:250:PRO:O	2:H:250:PRO:HG2	1.95	0.63
2:J:154:ILE:HG23	2:J:159:GLY:HA2	1.80	0.63
2:J:770:ASN:ND2	2:J:841:ARG:HD2	2.11	0.63
2:K:103:ILE:CD1	2:K:312:LEU:HD23	2.27	0.63
1:4:12:ARG:HG3	1:4:13:HIS:H	1.63	0.63
2:A:130:PRO:O	2:A:131:ASN:C	2.41	0.63
2:A:206:THR:HG22	2:A:206:THR:O	1.98	0.63
2:C:143:VAL:HG23	2:C:143:VAL:O	1.97	0.63
2:C:152:THR:HA	2:C:196:GLN:HG3	1.79	0.63
2:C:201:ARG:HH12	2:C:226:GLN:HG2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:759:SER:C	2:C:761:LYS:H	2.06	0.63
2:D:198:VAL:O	2:D:258:ALA:HA	1.98	0.63
2:D:270:PRO:HB2	2:D:271:ASP:OD1	1.98	0.63
2:D:392:PRO:HA	2:F:433:MET:HE3	1.79	0.63
2:D:447:TYR:HA	2:D:451:ALA:CB	2.29	0.63
2:D:493:ILE:HD11	2:F:116:TYR:CD1	2.33	0.63
2:D:562:VAL:HG11	2:D:579:ALA:CB	2.28	0.63
2:D:582:ARG:NH1	2:D:584:ASP:OD2	2.32	0.63
2:E:693:LYS:HB2	2:E:879:GLU:HB3	1.79	0.63
2:F:153:ASN:ND2	2:F:153:ASN:H	1.97	0.63
2:F:861:LEU:HD11	2:F:867:TYR:CE2	2.34	0.63
2:F:916:THR:CB	2:F:917:PRO:HD3	2.23	0.63
2:G:209:MET:HE3	2:G:290:LEU:C	2.23	0.63
2:G:393:LEU:HD23	2:G:393:LEU:O	1.98	0.63
2:G:481:VAL:HG21	2:G:807:PRO:HD3	1.80	0.63
2:G:626:LEU:HD23	2:G:888:LEU:CD1	2.27	0.63
2:G:809:MET:HB2	2:H:389:TYR:CZ	2.33	0.63
2:G:914:LEU:HD13	2:I:13:MET:HE2	1.80	0.63
2:H:182:GLN:HG3	2:I:811:GLU:CD	2.24	0.63
2:H:349:MET:CE	2:H:543:LYS:HD3	2.27	0.63
2:I:299:ARG:HG2	2:I:452:LEU:HD23	1.80	0.63
2:I:842:THR:OG1	2:I:843:MET:N	2.26	0.63
2:J:410:GLN:CG	2:K:256:PRO:HD3	2.29	0.63
2:K:114:LYS:HZ3	2:K:298:ASN:CB	2.06	0.63
2:K:681:LEU:HD23	2:K:681:LEU:H	1.64	0.63
2:L:486:ALA:C	2:L:487:LEU:HD22	2.23	0.63
2:L:706:GLY:O	2:L:707:ASN:C	2.40	0.63
3:M:221:LEU:HD11	3:M:336:ASN:HB3	0.79	0.63
1:7:11:PRO:HG3	2:G:896:PHE:CD1	2.32	0.63
2:A:52:PRO:CG	2:A:56:VAL:HG11	2.28	0.63
2:A:803:GLY:HA3	2:A:808:THR:O	1.97	0.63
2:B:351:ASP:O	2:B:353:LEU:N	2.31	0.63
2:B:777:GLN:OE1	2:B:833:THR:HG22	1.99	0.63
2:C:188:TRP:CE3	2:C:188:TRP:N	2.65	0.63
2:C:289:ASP:O	2:C:291:LEU:N	2.31	0.63
2:C:306:ARG:HB3	2:C:310:ILE:H	1.63	0.63
2:C:341:ASN:ND2	2:C:680:TYR:O	2.31	0.63
2:C:371:ASP:OD1	2:C:371:ASP:C	2.42	0.63
2:D:286:SER:HG	2:D:291:LEU:N	1.97	0.63
2:D:896:PHE:CG	2:F:15:ILE:HD11	2.34	0.63
2:E:28:LEU:O	2:E:28:LEU:HD23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:324:LEU:HD22	2:E:542:ILE:HG23	1.80	0.63
2:E:756:VAL:O	2:E:756:VAL:HG13	1.98	0.63
2:E:779:VAL:HG11	2:E:821:TYR:CD2	2.33	0.63
2:F:625:MET:O	2:F:891:VAL:HG12	1.99	0.63
2:F:768:PHE:O	2:F:769:ARG:C	2.40	0.63
2:G:255:GLU:CB	2:G:256:PRO:CD	2.76	0.63
2:H:388:ASN:HB2	2:H:435:ILE:O	1.97	0.63
2:H:405:ILE:HG13	2:H:407:ALA:H	1.64	0.63
2:I:815:TYR:CG	2:I:816:PRO:HD2	2.33	0.63
2:J:321:MET:HE1	2:J:336:ASP:H	1.63	0.63
2:J:497:TRP:CD2	2:J:776:ARG:HD3	2.33	0.63
2:J:881:ASP:HB2	6:P:53:LEU:HD12	1.80	0.63
2:K:324:LEU:O	2:K:324:LEU:HG	1.98	0.63
3:M:130:PRO:CB	3:M:170:ASN:HB2	2.29	0.63
3:M:407:VAL:HG23	3:M:407:VAL:O	1.98	0.63
5:O:183:VAL:HG12	5:O:183:VAL:O	1.98	0.63
2:A:344:LEU:HD22	2:A:620:LEU:CD2	2.29	0.63
2:A:645:TRP:CZ2	2:A:874:LEU:HD23	2.32	0.63
2:B:121:TYR:CE2	2:B:216:TYR:CB	2.78	0.63
2:B:175:LYS:HA	2:B:178:GLN:CB	2.29	0.63
2:B:344:LEU:HD23	2:B:344:LEU:C	2.24	0.63
2:B:652:SER:O	2:B:652:SER:OG	2.05	0.63
2:B:696:ILE:O	2:B:696:ILE:HG13	1.99	0.63
2:B:711:LEU:HD21	2:B:727:TYR:HD1	1.61	0.63
2:C:106:VAL:HG13	2:C:581:VAL:HB	1.80	0.63
2:C:208:PRO:HD3	2:C:285:ILE:HD11	1.79	0.63
2:C:337:LEU:HD23	2:C:337:LEU:N	2.13	0.63
2:C:378:GLU:HG3	2:C:496:ARG:HG2	1.79	0.63
2:C:446:LEU:CD2	2:C:488:ASP:HA	2.28	0.63
2:C:497:TRP:HB2	2:C:776:ARG:HG2	1.81	0.63
2:C:735:THR:O	2:C:737:ASP:N	2.32	0.63
2:C:744:LEU:O	2:C:744:LEU:HD12	1.98	0.63
2:D:257:LYS:O	2:D:257:LYS:HD2	1.99	0.63
2:E:162:ILE:HD11	2:E:170:PRO:HB3	1.80	0.63
2:F:35:THR:HG23	2:F:35:THR:O	1.96	0.63
2:G:299:ARG:HG3	2:G:299:ARG:NH1	2.10	0.63
2:G:608:ARG:HH22	2:G:906:ARG:HA	1.64	0.63
2:H:152:THR:H	2:H:197:LYS:NZ	1.96	0.63
2:H:526:GLY:HA2	2:I:824:ILE:HG22	1.81	0.63
2:H:588:LEU:HD23	2:H:589:TYR:H	1.62	0.63
2:I:175:LYS:HZ1	2:I:175:LYS:HB2	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:244:LEU:HD21	2:I:261:TYR:HE1	1.63	0.63
2:J:433:MET:SD	2:K:433:MET:HG2	2.39	0.63
2:K:113:PHE:O	2:L:824:ILE:HG23	1.98	0.63
2:K:311:GLY:O	2:K:312:LEU:C	2.40	0.63
2:K:744:LEU:CD2	2:K:751:TYR:HE1	2.12	0.63
2:L:367:VAL:HG21	2:L:764:MET:CE	2.18	0.63
3:M:220:LYS:C	3:M:221:LEU:HD12	2.24	0.63
5:O:38:ALA:O	5:O:42:ILE:HG12	1.98	0.63
7:T:231:GLY:O	7:T:232:TYR:HB2	1.99	0.63
1:1:8:SER:OG	1:1:9:LEU:N	2.23	0.63
2:A:540:PHE:O	2:A:540:PHE:CG	2.46	0.63
2:A:744:LEU:HB3	2:A:852:PHE:O	1.98	0.63
2:B:216:TYR:CD2	2:B:216:TYR:O	2.52	0.63
2:B:275:VAL:O	2:B:294:GLN:HB3	1.99	0.63
2:B:672:PHE:O	2:B:674:TYR:N	2.31	0.63
2:B:747:TYR:HE2	2:B:768:PHE:HB2	1.63	0.63
2:C:147:ALA:HB1	2:C:199:ALA:O	1.99	0.63
2:D:271:ASP:N	2:D:271:ASP:OD1	2.30	0.63
2:D:752:GLN:NE2	2:E:39:PHE:HA	2.08	0.63
2:F:315:TYR:CE2	2:F:538:LYS:HD2	2.34	0.63
2:F:738:TRP:O	2:F:741:ILE:HG22	1.98	0.63
2:G:564:MET:HG2	2:G:564:MET:O	1.98	0.63
2:G:813:GLN:HE21	2:I:148:PRO:CB	2.12	0.63
2:H:290:LEU:H	2:H:290:LEU:CD1	2.02	0.63
2:H:497:TRP:CD1	2:H:836:LYS:HZ2	2.15	0.63
2:I:184:GLY:O	2:I:187:GLN:NE2	2.31	0.63
2:I:734:MET:HE3	2:I:837:PHE:CD2	2.34	0.63
2:J:67:ARG:HA	2:J:589:TYR:CE1	2.34	0.63
2:J:131:ASN:ND2	2:J:131:ASN:H	1.96	0.63
2:J:227:ALA:HB1	2:J:229:LEU:H	1.64	0.63
2:J:376:ILE:HD12	2:J:774:MET:CE	2.24	0.63
2:J:708:ASP:O	2:J:708:ASP:CG	2.40	0.63
2:K:134:GLU:HA	2:K:141:ILE:O	1.99	0.63
2:K:297:PRO:HG2	2:L:385:GLU:HG3	1.80	0.63
2:K:344:LEU:O	2:K:344:LEU:HD23	1.98	0.63
2:K:798:ASN:HB3	2:K:801:PHE:CB	2.27	0.63
2:L:299:ARG:HD3	2:L:453:TYR:HE1	1.62	0.63
2:L:435:ILE:CG2	2:L:437:LEU:HD22	2.28	0.63
2:L:474:TYR:OH	2:L:478:ASN:ND2	2.31	0.63
2:L:652:SER:O	2:L:892:LEU:N	2.23	0.63
2:L:704:TRP:H	2:L:705:PRO:CD	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:N:187:LEU:C	4:N:188:GLU:HG2	2.23	0.63
2:A:70:PRO:HA	2:A:84:PHE:HD1	1.63	0.63
2:A:297:PRO:HG3	2:B:385:GLU:HG3	1.78	0.63
2:A:300:PRO:HG2	2:A:511:HIS:ND1	2.14	0.63
2:A:389:TYR:CD2	2:C:433:MET:HE1	2.33	0.63
2:B:696:ILE:HG22	2:B:876:MET:HB3	1.81	0.63
2:B:714:ASN:ND2	2:B:715:GLU:OE2	2.32	0.63
2:B:895:VAL:HG22	2:B:896:PHE:H	1.64	0.63
2:C:280:VAL:O	2:C:280:VAL:CG1	2.46	0.63
2:C:642:SER:HA	2:C:872:HIS:O	1.98	0.63
2:C:743:MET:O	2:C:745:SER:N	2.32	0.63
2:C:787:TYR:CD1	2:C:787:TYR:O	2.52	0.63
2:D:88:VAL:HG11	2:D:548:LEU:O	1.98	0.63
2:D:107:LEU:HD23	2:D:108:ASP:N	2.14	0.63
2:D:125:ALA:HB3	2:E:801:PHE:CD2	2.33	0.63
2:D:245:GLN:HG2	2:D:245:GLN:O	1.97	0.63
2:D:415:ASP:CA	2:E:141:ILE:HG12	2.29	0.63
2:D:626:LEU:HB3	2:D:888:LEU:HD13	1.80	0.63
2:D:694:VAL:CG1	2:D:716:PHE:HB2	2.28	0.63
2:E:127:LYS:HE2	2:E:213:TYR:CE2	2.33	0.63
2:E:718:ILE:HG12	2:E:738:TRP:CG	2.33	0.63
2:F:178:GLN:HB3	2:F:179:PRO:HD3	1.77	0.63
2:F:180:GLU:HB3	2:F:181:PRO:HD2	0.69	0.63
2:F:636:VAL:CG2	2:F:889:LEU:HD21	2.22	0.63
2:F:702:VAL:HG12	2:F:703:SER:N	2.13	0.63
2:G:142:LYS:HE3	2:I:425:ILE:HG12	1.80	0.63
2:H:818:ASN:C	2:H:818:ASN:ND2	2.50	0.63
2:I:173:ALA:O	2:I:176:THR:N	2.31	0.63
2:J:399:THR:O	2:J:401:THR:N	2.31	0.63
2:K:338:GLN:O	2:K:338:GLN:HG3	1.97	0.63
2:K:632:ASN:OD1	2:K:884:ASP:HA	1.99	0.63
2:K:718:ILE:HG12	2:K:738:TRP:NE1	2.14	0.63
2:L:274:LEU:HD22	2:L:293:GLN:CB	2.29	0.63
2:L:916:THR:HG23	7:U:16:GLN:NE2	2.14	0.63
1:5:18:PHE:C	1:5:18:PHE:HD1	2.03	0.63
2:A:94:LEU:O	2:A:547:LEU:N	2.32	0.63
2:A:677:SER:OG	2:A:684:THR:HG21	1.99	0.63
2:B:62:GLN:HE22	2:B:92:ARG:HG2	1.62	0.63
2:B:121:TYR:CE1	2:C:819:TYR:HD2	2.17	0.63
2:B:139:ASN:O	2:B:140:LYS:C	2.42	0.63
2:B:188:TRP:CZ2	2:C:130:PRO:HG3	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:323:VAL:CG1	2:B:555:GLU:HB3	2.29	0.63
2:B:651:TRP:CE3	2:B:846:ILE:CD1	2.81	0.63
2:B:684:THR:O	2:B:684:THR:OG1	2.08	0.63
2:C:13:MET:HA	2:C:13:MET:HE3	1.80	0.63
2:C:86:LEU:O	2:C:86:LEU:HD23	1.99	0.63
2:C:125:ALA:C	2:C:127:LYS:H	2.05	0.63
2:C:445:PHE:C	2:C:445:PHE:HD1	2.07	0.63
2:D:107:LEU:HD12	2:D:305:PHE:HE1	1.64	0.63
2:D:113:PHE:CD1	2:D:113:PHE:O	2.51	0.63
2:D:425:ILE:HG21	2:E:247:PHE:CE1	2.34	0.63
2:D:540:PHE:CG	2:D:618:ASP:HB2	2.34	0.63
2:D:801:PHE:HA	2:E:391:PHE:CE2	2.32	0.63
2:D:817:ALA:O	2:D:818:ASN:HB2	1.97	0.63
2:E:134:GLU:OE2	2:E:204:LYS:HA	1.98	0.63
2:E:564:MET:HE2	2:E:672:PHE:CD2	2.30	0.63
2:E:704:TRP:N	2:E:705:PRO:CD	2.51	0.63
2:E:734:MET:HE3	2:E:837:PHE:CE2	2.34	0.63
2:F:105:GLY:O	2:F:106:VAL:HG23	1.99	0.63
2:F:171:ILE:O	2:F:173:ALA:N	2.32	0.63
2:F:375:ARG:NH1	2:F:840:ASP:OD2	2.32	0.63
2:F:821:TYR:HD1	2:F:822:PRO:HD2	1.64	0.63
2:G:448:SER:OG	2:H:385:GLU:OE1	2.10	0.63
2:G:690:THR:OG1	2:G:881:ASP:HB2	1.98	0.63
2:G:784:TYR:HD2	2:G:830:PRO:HD2	1.64	0.63
2:H:114:LYS:NZ	2:H:299:ARG:O	2.31	0.63
2:H:426:GLU:OE2	2:I:146:GLN:HB3	1.98	0.63
2:H:744:LEU:HD21	2:H:751:TYR:CZ	2.33	0.63
2:H:914:LEU:HD23	2:H:915:ARG:H	1.64	0.63
2:I:662:PRO:HB3	2:I:672:PHE:CE2	2.33	0.63
2:J:323:VAL:HG12	2:J:332:ASN:OD1	1.99	0.63
2:J:544:ASN:HB2	2:J:616:PHE:HE2	1.64	0.63
2:K:649:ARG:CD	2:K:894:GLU:HG2	2.28	0.63
2:L:67:ARG:HD2	2:L:589:TYR:HE1	1.64	0.63
2:L:216:TYR:CG	2:L:217:ALA:N	2.67	0.63
2:L:447:TYR:HA	2:L:451:ALA:CB	2.27	0.63
3:M:468:LEU:HD21	3:M:472:ILE:CD1	2.29	0.63
5:O:269:TYR:O	5:O:273:ILE:HG12	1.98	0.63
1:0:22:ARG:HD2	1:0:23:HIS:H	1.64	0.62
2:A:516:LEU:HD21	2:A:567:GLN:CD	2.23	0.62
2:A:562:VAL:HG11	2:A:579:ALA:HB1	1.81	0.62
2:A:742:GLN:HE21	2:A:844:TRP:HE3	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:777:GLN:NE2	2:C:526:GLY:H	1.97	0.62
2:C:155:ASN:OD1	2:C:156:LYS:N	2.32	0.62
2:C:341:ASN:O	2:C:343:GLU:N	2.30	0.62
2:C:600:ALA:O	2:C:602:THR:N	2.32	0.62
2:D:384:ASP:O	2:D:384:ASP:OD1	2.16	0.62
2:E:800:GLY:HA2	2:E:812:GLY:CA	2.22	0.62
2:F:119:THR:O	2:F:119:THR:CG2	2.41	0.62
2:F:133:CYS:SG	2:F:134:GLU:N	2.72	0.62
2:G:113:PHE:CE1	2:G:115:PRO:HD3	2.33	0.62
2:G:729:VAL:HG13	2:G:730:ALA:H	1.64	0.62
2:H:263:GLU:O	2:H:265:VAL:N	2.32	0.62
2:I:729:VAL:HG11	2:I:739:PHE:CB	2.29	0.62
2:I:765:TYR:CE1	2:I:841:ARG:HD2	2.34	0.62
2:J:210:LEU:CB	2:J:211:PRO:HD2	2.20	0.62
2:J:688:ASN:HB3	2:J:844:TRP:NE1	2.14	0.62
2:K:379:ASN:ND2	2:K:493:ILE:HG13	2.14	0.62
2:L:13:MET:HE2	2:L:13:MET:N	2.14	0.62
2:L:14:HIS:O	2:L:48:PRO:HB3	1.99	0.62
2:L:626:LEU:CD1	2:L:888:LEU:HD23	2.21	0.62
5:O:219:MET:O	5:O:221:GLY:N	2.31	0.62
2:A:119:THR:HG22	2:A:121:TYR:N	2.13	0.62
2:A:483:VAL:HG23	2:A:805:MET:O	1.99	0.62
2:A:521:MET:SD	2:B:380:HIS:CD2	2.91	0.62
2:A:582:ARG:HB3	2:A:582:ARG:NH1	2.13	0.62
2:B:13:MET:N	2:B:13:MET:HE2	2.15	0.62
2:B:273:HIS:N	2:B:298:ASN:OD1	2.32	0.62
2:B:367:VAL:HG11	2:B:764:MET:CE	2.27	0.62
2:B:658:THR:O	2:B:660:GLU:N	2.31	0.62
2:B:669:ASP:OD1	2:B:669:ASP:C	2.38	0.62
2:B:693:LYS:CB	2:B:879:GLU:HB2	2.23	0.62
2:B:693:LYS:O	2:B:879:GLU:N	2.31	0.62
2:C:73:ARG:HD3	2:C:80:TYR:OH	1.99	0.62
2:C:187:GLN:O	2:C:188:TRP:C	2.40	0.62
2:C:376:ILE:CG2	2:C:774:MET:HE2	2.24	0.62
2:C:866:LEU:HD21	7:T:231:GLY:C	2.25	0.62
2:D:417:ASN:N	2:D:417:ASN:HD22	1.97	0.62
2:D:613:ASP:HB2	2:D:901:ILE:O	1.99	0.62
2:D:650:GLY:CA	2:D:846:ILE:O	2.46	0.62
2:D:734:MET:HE1	2:D:739:PHE:HA	1.81	0.62
2:E:71:VAL:HG12	2:E:71:VAL:O	1.97	0.62
2:E:400:ASP:HB2	2:E:402:TYR:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:447:TYR:HB2	2:E:451:ALA:HB3	1.80	0.62
2:F:366:ALA:HB3	2:F:519:ARG:NH2	2.14	0.62
2:F:402:TYR:HD2	2:F:425:ILE:HG22	1.64	0.62
2:F:635:SER:HB3	6:Q:18:SER:OG	1.98	0.62
2:G:307:ASP:OD1	2:G:308:ASN:N	2.32	0.62
2:G:497:TRP:HA	2:G:774:MET:HE1	1.80	0.62
2:G:802:VAL:HG12	2:G:803:GLY:N	2.14	0.62
2:H:175:LYS:HB2	2:H:223:LYS:NZ	2.12	0.62
2:H:252:THR:CG2	2:H:253:PRO:CD	2.34	0.62
2:H:273:HIS:ND1	2:H:273:HIS:O	2.32	0.62
2:H:525:ASN:OD1	2:I:495:ALA:HB2	1.98	0.62
2:H:618:ASP:OD1	2:H:619:TYR:N	2.31	0.62
2:H:719:LYS:NZ	6:Q:53:LEU:HB2	2.15	0.62
2:I:390:CYS:C	2:I:391:PHE:HD1	2.06	0.62
2:I:729:VAL:HG11	2:I:739:PHE:HB2	1.81	0.62
2:J:300:PRO:HG2	2:J:511:HIS:HB3	1.81	0.62
2:J:347:GLN:OE1	2:J:347:GLN:HA	1.99	0.62
2:K:656:LEU:O	2:K:887:THR:OG1	2.14	0.62
2:K:924:THR:OG1	7:T:48:ARG:NH1	2.32	0.62
2:L:133:CYS:SG	2:L:209:MET:SD	2.98	0.62
5:O:122:LEU:O	5:O:124:ARG:N	2.32	0.62
6:S:44:PRO:HD2	6:S:44:PRO:O	1.98	0.62
2:A:297:PRO:HG2	2:A:297:PRO:O	1.98	0.62
2:A:453:TYR:HE2	2:A:510:HIS:HA	1.63	0.62
2:A:690:THR:HG23	2:A:881:ASP:HB2	1.80	0.62
2:C:113:PHE:CD2	2:C:115:PRO:HD3	2.34	0.62
2:C:164:THR:O	2:C:164:THR:OG1	2.08	0.62
2:C:226:GLN:HB3	2:C:265:VAL:CG1	2.29	0.62
2:C:273:HIS:CD2	2:C:298:ASN:HD22	2.17	0.62
2:C:347:GLN:O	2:C:347:GLN:CG	2.45	0.62
2:D:390:CYS:HB3	2:D:433:MET:CB	2.20	0.62
2:D:395:GLY:O	2:D:430:ILE:HG22	1.99	0.62
2:D:695:SER:HB3	2:D:877:THR:CG2	2.29	0.62
2:E:188:TRP:C	2:F:809:MET:HE1	2.23	0.62
2:E:693:LYS:HD3	2:E:715:GLU:OE1	1.98	0.62
2:E:732:CYS:SG	2:E:773:PRO:HB3	2.39	0.62
2:E:749:ILE:O	2:E:749:ILE:CG1	2.42	0.62
2:F:182:GLN:CD	2:F:183:VAL:H	2.08	0.62
2:F:649:ARG:HG2	2:F:896:PHE:HE1	1.63	0.62
2:F:904:PRO:HD2	2:F:908:VAL:HG13	1.81	0.62
2:G:61:SER:CA	2:H:707:ASN:HD21	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:142:LYS:HZ2	2:I:425:ILE:HG13	1.63	0.62
2:H:151:GLY:N	2:H:197:LYS:HB3	2.15	0.62
2:H:223:LYS:HB3	2:H:223:LYS:NZ	2.14	0.62
2:H:405:ILE:HG13	2:H:407:ALA:N	2.13	0.62
2:I:320:ASN:HB3	2:I:557:ASN:ND2	2.12	0.62
2:J:425:ILE:CG2	2:J:425:ILE:O	2.46	0.62
2:J:549:PRO:HG2	2:J:604:GLU:OE2	1.98	0.62
2:J:723:ASP:OD1	2:J:726:GLY:HA2	1.99	0.62
2:K:83:ARG:HG3	2:K:555:GLU:HB2	1.81	0.62
2:K:471:LYS:HA	2:K:476:TYR:CE2	2.34	0.62
2:K:711:LEU:HD23	2:K:727:TYR:CZ	2.35	0.62
2:L:222:GLU:O	2:L:223:LYS:C	2.42	0.62
3:M:466:LEU:CG	3:M:467:PRO:CD	2.76	0.62
6:S:35:VAL:HG13	6:S:36:MET:H	1.64	0.62
7:T:56:LEU:HD11	7:T:204:PHE:HE2	1.64	0.62
7:U:22:GLY:O	7:U:23:ALA:HB2	1.98	0.62
7:U:88:THR:HG23	7:U:176:THR:HG22	1.79	0.62
1:2:16:ARG:HB2	1:2:17:PRO:HD2	1.80	0.62
1:5:16:ARG:CG	1:5:16:ARG:NH2	2.47	0.62
1:8:35:PHE:HE1	2:B:621:CYS:SG	2.22	0.62
2:A:78:TYR:HB2	2:A:668:PHE:HB2	1.82	0.62
2:A:255:GLU:CD	2:A:256:PRO:HD2	2.24	0.62
2:A:387:PRO:HA	2:C:440:ASN:ND2	2.12	0.62
2:A:662:PRO:HB3	2:A:672:PHE:CD2	2.34	0.62
2:B:516:LEU:HD12	2:B:567:GLN:CD	2.25	0.62
2:C:824:ILE:O	2:C:824:ILE:CD1	2.47	0.62
2:D:12:TYR:OH	7:T:101:MET:SD	2.46	0.62
2:D:310:ILE:HG21	2:D:682:ASP:OD1	2.00	0.62
2:D:747:TYR:CE1	2:D:762:ASP:HB3	2.34	0.62
2:E:195:ALA:O	2:E:196:GLN:HB2	1.99	0.62
2:E:627:TYR:HB2	2:E:889:LEU:HD22	1.79	0.62
2:F:797:ASN:ND2	2:F:817:ALA:HB1	2.14	0.62
2:H:67:ARG:HD2	2:H:589:TYR:CE1	2.34	0.62
2:H:71:VAL:HG12	2:H:83:ARG:O	1.99	0.62
2:H:153:ASN:H	2:H:197:LYS:HZ3	1.48	0.62
2:H:403:SER:HB2	2:H:421:ARG:N	2.13	0.62
2:H:658:THR:CB	2:H:888:LEU:HD23	2.29	0.62
2:H:678:VAL:CG1	2:H:681:LEU:HD23	2.30	0.62
2:H:819:TYR:HB3	2:H:820:PRO:CD	2.29	0.62
2:I:262:ALA:O	2:I:263:GLU:HG2	2.00	0.62
2:I:434:GLU:HG2	2:I:435:ILE:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:655:ARG:HH22	2:I:883:MET:CB	2.12	0.62
2:J:506:ASN:HA	2:J:686:TYR:CE2	2.35	0.62
2:J:795:GLN:O	2:L:178:GLN:NE2	2.29	0.62
2:J:796:HIS:CB	2:L:180:GLU:HB2	2.29	0.62
2:J:821:TYR:OH	2:L:219:PRO:HG3	1.98	0.62
2:K:121:TYR:CE2	2:K:217:ALA:HB2	2.33	0.62
2:K:403:SER:N	2:L:248:ALA:O	2.30	0.62
2:L:72:ASP:HB3	2:L:83:ARG:HB2	1.82	0.62
6:P:21:LEU:HG	6:Q:21:LEU:CD2	2.29	0.62
1:4:23:ASN:H	1:4:25:ILE:HG22	1.63	0.62
2:A:222:GLU:O	2:B:790:VAL:HG13	2.00	0.62
2:A:276:TYR:O	2:A:276:TYR:CD1	2.53	0.62
2:A:306:ARG:CZ	2:A:567:GLN:HB3	2.30	0.62
2:A:496:ARG:O	2:A:496:ARG:HG3	1.99	0.62
2:A:544:ASN:HB2	2:A:616:PHE:HE2	1.65	0.62
2:B:154:ILE:HB	2:B:160:ILE:CA	2.19	0.62
2:B:160:ILE:HG12	2:B:259:VAL:HG21	1.81	0.62
2:B:537:GLN:HA	2:B:537:GLN:OE1	1.99	0.62
2:C:277:LYS:NZ	2:C:277:LYS:HB3	2.14	0.62
2:C:347:GLN:O	2:C:348:LEU:HD23	1.99	0.62
2:C:776:ARG:O	2:C:777:GLN:HG3	1.99	0.62
2:D:213:TYR:O	2:D:213:TYR:HD1	1.82	0.62
2:D:274:LEU:HD23	2:D:294:GLN:O	1.99	0.62
2:D:316:ASN:ND2	2:D:339:ASP:O	2.33	0.62
2:D:474:TYR:HD1	2:D:474:TYR:O	1.83	0.62
2:D:730:ALA:O	2:D:731:GLN:C	2.41	0.62
2:E:132:PRO:O	2:E:203:LEU:HD23	1.99	0.62
2:E:517:ARG:HG3	2:E:517:ARG:HH11	1.63	0.62
2:E:890:TYR:CD1	2:E:890:TYR:O	2.52	0.62
2:F:105:GLY:O	2:F:106:VAL:CG2	2.47	0.62
2:F:110:GLY:O	2:F:112:SER:N	2.33	0.62
2:F:149:PHE:O	2:F:150:ILE:HB	1.98	0.62
2:F:671:TYR:OH	6:Q:46:ALA:O	2.17	0.62
2:F:902:HIS:O	2:F:902:HIS:CG	2.52	0.62
2:G:349:MET:HE3	2:G:619:TYR:CB	2.29	0.62
2:H:103:ILE:HD13	2:H:533:ILE:HD11	1.79	0.62
2:H:201:ARG:CG	2:H:201:ARG:NH1	2.45	0.62
2:H:423:ALA:HB3	2:I:247:PHE:CZ	2.34	0.62
2:H:497:TRP:CE3	2:H:776:ARG:HG2	2.34	0.62
2:J:127:LYS:HD3	2:J:213:TYR:CD2	2.34	0.62
2:J:215:SER:O	2:K:816:PRO:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:652:SER:O	2:J:892:LEU:N	2.33	0.62
2:K:69:VAL:HG13	2:K:70:PRO:HD2	1.82	0.62
2:K:256:PRO:O	2:K:258:ALA:N	2.31	0.62
2:L:147:ALA:HB3	2:L:198:VAL:HG23	1.82	0.62
2:L:349:MET:HA	2:L:619:TYR:CD2	2.35	0.62
3:M:73:LYS:HB2	3:M:77:ILE:O	1.98	0.62
7:U:56:LEU:HD21	7:U:202:VAL:HG12	1.81	0.62
2:A:654:THR:OG1	2:A:843:MET:HA	1.99	0.62
2:A:711:LEU:HD23	2:A:711:LEU:C	2.25	0.62
2:A:714:ASN:ND2	2:E:338:GLN:HB2	2.14	0.62
2:B:171:ILE:HG12	2:B:174:ASP:HB3	1.81	0.62
2:B:485:SER:O	2:B:486:ALA:C	2.40	0.62
2:B:533:ILE:HG22	2:C:731:GLN:HG2	1.79	0.62
2:B:552:TYR:CD2	2:B:909:ILE:CD1	2.81	0.62
2:B:630:PRO:HG2	2:B:633:ALA:HB2	1.81	0.62
2:D:66:LEU:HD13	2:D:592:PHE:CZ	2.35	0.62
2:D:147:ALA:HB1	2:D:199:ALA:O	1.99	0.62
2:D:780:ASN:C	2:D:782:THR:H	2.06	0.62
2:E:154:ILE:O	2:E:154:ILE:HG13	2.00	0.62
2:E:360:PHE:HB3	2:E:365:GLN:HB2	1.80	0.62
2:F:534:GLN:N	2:F:534:GLN:OE1	2.33	0.62
2:F:747:TYR:CE2	2:F:757:PRO:HG3	2.34	0.62
2:F:780:ASN:HD22	2:F:832:LEU:CD2	2.11	0.62
2:F:919:SER:OG	4:N:188:GLU:HB2	1.98	0.62
2:G:113:PHE:CD1	2:G:115:PRO:HD3	2.34	0.62
2:G:282:GLN:CD	2:G:282:GLN:H	2.02	0.62
2:G:378:GLU:OE1	2:G:378:GLU:HA	2.00	0.62
2:G:693:LYS:HE2	2:G:715:GLU:CG	2.28	0.62
2:G:804:TYR:CE2	2:G:805:MET:HE2	2.30	0.62
2:H:252:THR:HG22	2:H:253:PRO:CG	2.27	0.62
2:H:266:SER:O	2:H:266:SER:OG	2.03	0.62
2:H:506:ASN:ND2	2:H:509:ASN:OD1	2.28	0.62
2:H:608:ARG:HH22	2:H:906:ARG:HA	1.64	0.62
2:J:425:ILE:HG12	2:L:813:GLN:NE2	2.15	0.62
2:J:437:LEU:CD2	2:L:437:LEU:HD13	2.26	0.62
2:J:563:ASN:ND2	2:J:574:LEU:HB2	2.14	0.62
2:K:107:LEU:HD12	2:K:305:PHE:HE1	1.64	0.62
2:L:314:TYR:HA	2:L:559:ARG:NH2	2.15	0.62
2:L:497:TRP:CZ2	2:L:836:LYS:HE2	2.35	0.62
2:L:622:ALA:HB1	2:L:892:LEU:HG	1.79	0.62
2:L:744:LEU:HG	2:L:852:PHE:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:342:THR:HG23	2:A:342:THR:O	1.99	0.62
2:A:539:PHE:C	2:A:541:ALA:N	2.57	0.62
2:A:645:TRP:NE1	2:A:872:HIS:O	2.30	0.62
2:B:249:LEU:HD23	2:B:257:LYS:HD2	1.81	0.62
2:B:252:THR:OG1	2:B:257:LYS:CE	2.48	0.62
2:B:848:PHE:O	2:B:848:PHE:CG	2.45	0.62
2:C:289:ASP:O	2:C:290:LEU:C	2.42	0.62
2:C:597:HIS:O	2:C:598:ASN:C	2.42	0.62
2:C:720:ARG:HH11	2:C:720:ARG:CG	2.01	0.62
2:D:762:ASP:C	2:D:763:ARG:HD3	2.25	0.62
2:E:271:ASP:HA	2:E:298:ASN:HD21	1.65	0.62
2:E:351:ASP:O	2:E:763:ARG:HD3	1.99	0.62
2:E:461:THR:HB	2:E:480:ARG:NH1	2.15	0.62
2:E:506:ASN:OD1	2:E:509:ASN:ND2	2.33	0.62
2:E:561:ASP:O	2:E:565:ILE:HG12	1.99	0.62
2:E:735:THR:HG22	2:E:737:ASP:H	1.64	0.62
2:F:349:MET:HE2	2:F:543:LYS:NZ	2.15	0.62
2:F:668:PHE:CZ	6:Q:40:VAL:HG13	2.35	0.62
2:G:57:THR:OG1	2:H:850:SER:OG	2.06	0.62
2:H:178:GLN:O	2:H:180:GLU:N	2.33	0.62
2:H:289:ASP:H	2:H:290:LEU:HD12	1.65	0.62
2:H:331:LEU:HD12	2:L:92:ARG:HH21	1.65	0.62
2:H:517:ARG:O	2:H:521:MET:HB2	1.99	0.62
2:H:593:PHE:HA	2:I:751:TYR:CE2	2.35	0.62
2:H:733:ASN:HB3	6:Q:55:TYR:HB2	1.81	0.62
2:I:450:VAL:HG12	2:I:487:LEU:HD13	1.80	0.62
2:I:548:LEU:CD2	2:I:607:LEU:HD22	2.24	0.62
2:J:107:LEU:O	2:J:108:ASP:C	2.43	0.62
2:J:150:ILE:HD13	2:J:192:VAL:HG22	1.80	0.62
2:K:488:ASP:H	2:K:491:VAL:CG1	2.13	0.62
2:L:249:LEU:HD23	2:L:251:SER:H	1.64	0.62
2:L:435:ILE:HG22	2:L:436:ASN:N	2.14	0.62
2:L:711:LEU:HD12	2:L:711:LEU:H	1.64	0.62
3:M:146:MET:SD	3:M:157:PRO:HB3	2.40	0.62
3:M:221:LEU:CD2	3:M:318:PRO:HB3	2.29	0.62
5:O:17:ALA:HB2	5:O:130:ARG:HD2	1.80	0.62
2:A:52:PRO:O	2:A:52:PRO:HG2	2.00	0.62
2:A:360:PHE:CE1	2:A:362:MET:HB3	2.35	0.62
2:B:10:TRP:CZ2	2:C:647:ALA:HB2	2.34	0.62
2:B:14:HIS:NE2	2:C:900:ARG:NH2	2.44	0.62
2:B:334:VAL:CG2	2:B:542:ILE:HD11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:382:VAL:HG11	2:B:439:ALA:HA	1.80	0.62
2:B:721:THR:HG21	2:B:733:ASN:HB2	1.81	0.62
2:C:160:ILE:HB	2:C:170:PRO:HG2	1.80	0.62
2:D:69:VAL:CG1	2:D:70:PRO:HD2	2.30	0.62
2:D:418:TYR:O	2:E:144:ARG:NH2	2.33	0.62
2:D:477:MET:HE1	2:D:571:GLY:O	2.00	0.62
2:F:119:THR:OG1	2:F:120:ALA:N	2.31	0.62
2:F:449:ASN:HD21	2:F:512:ARG:NE	1.98	0.62
2:F:655:ARG:HB2	2:F:691:PHE:HE1	1.65	0.62
2:F:740:LEU:HD12	2:F:740:LEU:O	2.00	0.62
2:G:704:TRP:O	2:G:704:TRP:CD2	2.52	0.62
2:H:627:TYR:HD1	6:P:24:ARG:HA	1.63	0.62
2:H:643:ARG:HH21	2:H:918:PHE:HA	1.64	0.62
2:H:654:THR:HG21	2:H:685:PHE:CD1	2.35	0.62
2:J:311:GLY:O	2:J:559:ARG:HG3	2.00	0.62
2:J:350:LEU:HD12	2:J:356:ARG:HE	1.65	0.62
2:J:368:ASP:OD1	2:J:513:ASN:ND2	2.32	0.62
2:J:447:TYR:OH	2:J:807:PRO:HG3	1.98	0.62
2:J:470:ASN:OD1	2:J:472:ASN:N	2.23	0.62
2:J:914:LEU:O	2:J:914:LEU:HG	1.99	0.62
2:K:71:VAL:HG12	2:K:83:ARG:O	1.99	0.62
2:K:613:ASP:OD2	2:K:900:ARG:HD2	2.00	0.62
2:K:711:LEU:HD23	2:K:727:TYR:CE1	2.34	0.62
2:L:136:LYS:HG2	2:L:140:LYS:CB	2.26	0.62
2:L:710:LEU:HD23	2:L:710:LEU:H	1.65	0.62
3:M:322:ASP:OD1	3:M:323:SER:N	2.33	0.62
6:P:20:TYR:HB2	6:R:20:TYR:CD1	2.34	0.62
7:U:189:ILE:HB	7:U:193:GLN:HG2	1.81	0.62
2:A:221:ASN:C	2:B:788:GLN:NE2	2.58	0.62
2:A:541:ALA:O	2:A:542:ILE:C	2.42	0.62
2:B:205:ASP:O	2:B:206:THR:C	2.43	0.62
2:B:362:MET:O	2:B:364:ASN:N	2.33	0.62
2:B:370:TYR:O	2:B:370:TYR:CG	2.48	0.62
2:C:346:TYR:HB3	2:C:538:LYS:NZ	2.15	0.62
2:C:527:ARG:HG3	2:C:528:TYR:CD1	2.34	0.62
2:C:729:VAL:CB	2:C:736:LYS:HG2	2.29	0.62
2:C:848:PHE:CE2	2:C:861:LEU:HG	2.35	0.62
2:D:186:THR:OG1	2:D:187:GLN:N	2.31	0.62
2:D:341:ASN:OD1	2:D:341:ASN:O	2.18	0.62
2:E:96:MET:CG	2:E:99:THR:HG21	2.30	0.62
2:E:189:ASN:C	2:E:189:ASN:HD22	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:703:SER:C	2:E:705:PRO:HD2	2.25	0.62
2:G:178:GLN:N	2:G:179:PRO:CD	2.63	0.62
2:G:400:ASP:O	2:G:424:GLU:HB2	2.00	0.62
2:G:703:SER:HB3	2:G:705:PRO:HD2	1.82	0.62
2:G:796:HIS:H	2:G:796:HIS:HD1	1.48	0.62
2:H:280:VAL:O	2:H:281:ALA:C	2.41	0.62
2:H:402:TYR:HB2	2:I:247:PHE:CD1	2.35	0.62
2:H:804:TYR:CD1	2:H:805:MET:HG2	2.35	0.62
2:I:627:TYR:HB2	2:I:889:LEU:HB2	1.81	0.62
2:J:125:ALA:HB2	2:K:801:PHE:CE2	2.35	0.62
2:J:398:ALA:O	2:J:399:THR:C	2.41	0.62
2:J:811:GLU:OE2	2:L:182:GLN:C	2.43	0.62
2:K:218:LYS:NZ	2:K:218:LYS:CB	2.63	0.62
2:K:474:TYR:HB2	2:K:572:ASN:HD22	1.65	0.62
2:L:119:THR:HG22	2:L:121:TYR:N	2.15	0.62
2:L:455:PRO:HD3	2:L:505:VAL:HG21	1.81	0.62
3:M:330:LEU:HD21	3:M:335:GLN:HA	1.81	0.62
1:0:28:PHE:O	1:0:29:MET:C	2.43	0.62
2:A:323:VAL:HG23	2:A:555:GLU:HB3	1.82	0.62
2:A:899:VAL:HG23	2:A:913:TYR:HD1	1.64	0.62
2:B:797:ASN:HB2	2:B:819:TYR:CZ	2.35	0.62
2:C:472:ASN:HA	2:C:477:MET:CE	2.30	0.62
2:C:580:SER:OG	2:C:581:VAL:N	2.31	0.62
2:D:203:LEU:HD23	2:D:267:ILE:CD1	2.26	0.62
2:D:259:VAL:HG12	2:D:259:VAL:O	2.00	0.62
2:D:364:ASN:O	2:D:366:ALA:N	2.32	0.62
2:D:724:GLY:C	2:D:726:GLY:N	2.54	0.62
2:D:814:ALA:O	2:D:815:TYR:HB2	1.99	0.62
2:E:6:MET:HE3	2:E:9:GLN:NE2	2.14	0.62
2:E:126:PRO:HA	2:F:434:GLU:OE1	2.00	0.62
2:F:497:TRP:CG	2:F:776:ARG:HD3	2.35	0.62
2:F:909:ILE:O	2:F:909:ILE:HG23	1.98	0.62
2:G:142:LYS:C	2:G:142:LYS:NZ	2.56	0.62
2:G:621:CYS:HB2	2:G:895:VAL:O	2.00	0.62
2:H:294:GLN:HE22	2:H:808:THR:CA	2.13	0.62
2:H:364:ASN:OD1	2:H:519:ARG:HG2	2.00	0.62
2:I:361:SER:O	2:I:361:SER:OG	2.03	0.62
2:I:388:ASN:HB3	2:I:437:LEU:HD23	1.79	0.62
2:I:890:TYR:CE1	2:I:892:LEU:HD21	2.34	0.62
2:I:916:THR:HG23	2:I:917:PRO:CG	2.30	0.62
2:J:107:LEU:O	2:J:107:LEU:CD2	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:687:LEU:HD11	2:J:883:MET:HE1	1.82	0.62
2:K:122:ASN:ND2	2:K:212:CYS:SG	2.73	0.62
2:K:306:ARG:HE	2:K:567:GLN:HB2	1.64	0.62
2:K:346:TYR:CD1	2:K:538:LYS:HG2	2.35	0.62
2:L:435:ILE:HG22	2:L:436:ASN:C	2.24	0.62
2:L:764:MET:SD	2:L:841:ARG:NH1	2.73	0.62
3:M:77:ILE:HD11	3:M:92:THR:HB	1.81	0.62
2:A:109:ARG:HD2	2:A:113:PHE:CE1	2.34	0.61
2:A:853:MET:HE1	2:B:38:TYR:HB2	1.82	0.61
2:B:174:ASP:OD1	2:B:175:LYS:HG3	2.00	0.61
2:B:177:TYR:O	2:B:178:GLN:C	2.41	0.61
2:B:348:LEU:HD23	2:B:619:TYR:CE2	2.35	0.61
2:C:274:LEU:HD22	2:C:293:GLN:OE1	1.99	0.61
2:C:744:LEU:HD11	2:C:853:MET:HB2	1.81	0.61
2:C:802:VAL:HG22	2:C:803:GLY:N	2.15	0.61
2:D:394:GLY:O	2:E:130:PRO:HD2	2.00	0.61
2:D:680:TYR:HD1	2:D:890:TYR:HE2	1.46	0.61
2:F:74:GLU:HB3	2:F:81:LYS:HB3	1.83	0.61
2:F:196:GLN:C	2:F:197:LYS:HE2	2.25	0.61
2:F:309:PHE:CE2	2:F:533:ILE:HB	2.35	0.61
2:F:545:LEU:CD1	2:F:901:ILE:HD12	2.30	0.61
2:F:796:HIS:HB3	2:F:818:ASN:ND2	2.15	0.61
2:G:390:CYS:SG	2:G:433:MET:C	2.83	0.61
2:H:114:LYS:HE2	2:H:298:ASN:HB2	1.82	0.61
2:H:340:ARG:HG3	2:H:340:ARG:O	2.00	0.61
2:H:516:LEU:N	2:H:519:ARG:HH21	1.97	0.61
2:H:801:PHE:CD1	2:I:391:PHE:HE2	2.18	0.61
2:I:313:MET:HE1	2:I:537:GLN:OE1	2.00	0.61
2:I:895:VAL:HG12	2:I:917:PRO:HB3	1.82	0.61
2:J:46:ARG:HH21	2:K:898:VAL:CG1	2.12	0.61
2:J:142:LYS:NZ	2:J:245:GLN:OE1	2.32	0.61
2:J:370:TYR:HD2	2:J:375:ARG:HB3	1.64	0.61
2:J:471:LYS:HA	2:J:476:TYR:CD2	2.35	0.61
2:K:241:ASP:O	2:K:243:ASN:N	2.33	0.61
2:K:503:ASP:HB3	2:K:689:HIS:NE2	2.14	0.61
2:K:613:ASP:HB2	2:K:901:ILE:O	2.00	0.61
2:L:488:ASP:O	2:L:491:VAL:HG22	2.00	0.61
2:L:804:TYR:HD1	2:L:805:MET:HB2	1.64	0.61
2:L:839:CYS:SG	2:L:842:THR:OG1	2.58	0.61
4:N:177:VAL:HG12	4:N:179:LYS:HG3	1.82	0.61
5:O:211:GLN:O	5:O:211:GLN:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:219:MET:HB2	5:O:262:LEU:CD2	2.23	0.61
6:S:45:VAL:HG22	6:S:45:VAL:O	2.00	0.61
2:B:308:ASN:ND2	2:B:350:LEU:HD21	2.15	0.61
2:B:312:LEU:O	2:B:313:MET:HB2	1.98	0.61
2:B:540:PHE:HZ	2:B:899:VAL:HG23	1.64	0.61
2:B:653:PHE:CZ	2:B:694:VAL:HG21	2.35	0.61
2:C:655:ARG:NH1	2:C:880:VAL:HB	2.14	0.61
2:C:890:TYR:OH	2:C:892:LEU:HD21	1.99	0.61
2:D:107:LEU:HB2	2:D:531:PHE:HE1	1.63	0.61
2:D:126:PRO:HA	2:E:434:GLU:OE2	1.99	0.61
2:D:390:CYS:SG	2:D:433:MET:HB3	2.39	0.61
2:D:415:ASP:HA	2:E:141:ILE:CG2	2.30	0.61
2:E:694:VAL:HG22	2:E:716:PHE:HB2	1.82	0.61
2:E:811:GLU:N	2:E:811:GLU:CD	2.58	0.61
2:F:123:SER:O	2:F:125:ALA:N	2.32	0.61
2:F:138:ASN:O	2:F:140:LYS:N	2.33	0.61
2:F:356:ARG:NH2	2:F:367:VAL:HG12	2.15	0.61
2:G:811:GLU:OE2	2:I:184:GLY:N	2.33	0.61
2:H:171:ILE:O	2:H:173:ALA:N	2.32	0.61
2:H:176:THR:HG21	2:H:201:ARG:NH2	2.12	0.61
2:H:382:VAL:HG22	2:H:439:ALA:HA	1.81	0.61
2:H:720:ARG:HH11	2:H:720:ARG:HG2	1.64	0.61
2:H:858:LEU:HB2	2:H:896:PHE:HZ	1.66	0.61
2:I:173:ALA:O	2:I:175:LYS:N	2.33	0.61
2:I:226:GLN:CB	2:I:265:VAL:HG12	2.30	0.61
2:I:596:ALA:HB3	2:I:599:THR:HG22	1.81	0.61
2:J:175:LYS:HG3	2:J:176:THR:CG2	2.30	0.61
2:J:213:TYR:CD1	2:J:213:TYR:O	2.53	0.61
2:J:406:LYS:HB2	2:J:412:TRP:N	2.15	0.61
2:J:813:GLN:HE21	2:L:147:ALA:HA	1.62	0.61
2:K:35:THR:CG2	2:K:39:PHE:HB3	2.30	0.61
2:K:682:ASP:HB3	2:K:684:THR:HG23	1.82	0.61
2:L:660:GLU:O	2:L:661:THR:OG1	2.18	0.61
3:M:381:MET:HE2	3:M:472:ILE:HD13	1.80	0.61
6:Q:49:ASN:O	6:Q:52:THR:OG1	2.18	0.61
7:U:13:TYR:CE2	7:U:15:PRO:HA	2.34	0.61
2:A:104:ARG:HB2	2:A:104:ARG:NH1	2.15	0.61
2:A:300:PRO:O	2:A:570:LEU:HD22	2.00	0.61
2:A:526:GLY:N	2:B:777:GLN:HG3	2.14	0.61
2:A:817:ALA:N	2:C:215:SER:O	2.30	0.61
2:B:171:ILE:HG23	2:B:175:LYS:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:360:PHE:O	2:B:361:SER:C	2.43	0.61
2:B:842:THR:O	2:B:842:THR:OG1	2.12	0.61
2:B:916:THR:O	2:B:916:THR:CG2	2.46	0.61
2:C:179:PRO:CG	2:C:201:ARG:CD	2.73	0.61
2:C:341:ASN:C	2:C:343:GLU:H	2.06	0.61
2:C:797:ASN:OD1	2:C:797:ASN:N	2.23	0.61
2:D:629:ILE:HG22	2:D:887:THR:O	2.01	0.61
2:E:650:GLY:O	2:E:894:GLU:HB2	1.99	0.61
2:G:94:LEU:O	2:G:94:LEU:HD12	1.99	0.61
2:G:175:LYS:HE3	2:G:175:LYS:H	1.65	0.61
2:G:250:PRO:HA	2:I:421:ARG:HH22	1.65	0.61
2:G:705:PRO:HB3	2:G:710:LEU:HB2	1.82	0.61
2:G:858:LEU:HD11	2:I:10:TRP:CZ3	2.36	0.61
2:H:879:GLU:O	2:H:880:VAL:HG13	2.00	0.61
2:I:69:VAL:HG13	2:I:70:PRO:HD2	1.82	0.61
2:I:498:SER:OG	2:I:838:LEU:HD11	2.01	0.61
2:J:100:TYR:OH	2:K:736:LYS:HD3	1.99	0.61
2:J:743:MET:HE3	2:J:749:ILE:CD1	2.30	0.61
2:K:779:VAL:HG12	2:K:829:VAL:HG11	1.82	0.61
2:L:197:LYS:N	2:L:197:LYS:CD	2.59	0.61
2:L:497:TRP:HH2	2:L:836:LYS:HB3	1.66	0.61
5:O:122:LEU:O	5:O:123:ASP:C	2.43	0.61
2:A:31:PHE:O	2:A:35:THR:OG1	2.19	0.61
2:A:858:LEU:HD12	2:C:16:ALA:HB2	1.80	0.61
2:B:626:LEU:HD23	2:B:888:LEU:HD23	1.82	0.61
2:B:704:TRP:HB3	2:B:705:PRO:HD3	1.81	0.61
2:C:13:MET:HE3	2:C:13:MET:CA	2.30	0.61
2:D:28:LEU:HA	2:E:606:MET:HE3	1.82	0.61
2:D:375:ARG:CZ	2:D:838:LEU:HD21	2.29	0.61
2:D:407:ALA:O	2:D:408:ASN:C	2.42	0.61
2:E:144:ARG:NE	2:E:144:ARG:HA	2.15	0.61
2:E:403:SER:H	2:F:250:PRO:HB3	1.63	0.61
2:F:266:SER:O	2:F:266:SER:OG	2.00	0.61
2:F:306:ARG:HB2	2:F:310:ILE:HG12	1.81	0.61
2:F:393:LEU:O	2:F:393:LEU:CG	2.49	0.61
2:F:640:ILE:HG22	2:F:874:LEU:HG	1.81	0.61
2:F:704:TRP:CD2	2:F:704:TRP:C	2.79	0.61
2:F:804:TYR:HD1	2:F:805:MET:HG2	1.66	0.61
2:G:401:THR:HA	2:G:424:GLU:CB	2.30	0.61
2:H:20:ALA:HA	2:H:23:TYR:HE1	1.64	0.61
2:H:155:ASN:C	2:H:157:ASP:H	2.07	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:209:MET:CE	2:I:290:LEU:HB2	2.30	0.61
2:I:638:ILE:CG1	2:I:876:MET:HB3	2.29	0.61
2:J:459:LYS:HE3	2:J:480:ARG:HB3	1.81	0.61
2:K:103:ILE:HD13	2:K:312:LEU:CD2	2.29	0.61
2:L:378:GLU:CD	2:L:496:ARG:HG3	2.25	0.61
4:N:185:GLU:O	4:N:186:VAL:C	2.42	0.61
1:8:30:LEU:HD21	2:B:855:MET:HA	1.82	0.61
1:8:35:PHE:O	1:8:36:SER:C	2.43	0.61
2:B:122:ASN:HB3	2:B:125:ALA:HB2	1.83	0.61
2:B:349:MET:O	2:B:349:MET:CG	2.46	0.61
2:B:609:ASN:ND2	5:O:24:SER:OG	2.29	0.61
2:C:144:ARG:HH11	2:C:144:ARG:CG	2.13	0.61
2:C:384:ASP:HB2	2:C:438:ALA:HB3	1.81	0.61
2:D:371:ASP:HB3	2:D:374:VAL:HG12	1.83	0.61
2:D:795:GLN:HE21	2:D:819:TYR:HB2	1.66	0.61
2:D:817:ALA:O	2:F:226:GLN:NE2	2.34	0.61
2:E:513:ASN:O	2:E:516:LEU:N	2.31	0.61
2:E:762:ASP:C	2:E:769:ARG:HH21	2.08	0.61
2:F:713:PRO:HG2	2:J:318:THR:CG2	2.29	0.61
2:G:466:THR:C	2:G:467:LEU:HD22	2.25	0.61
2:G:606:MET:HE1	2:I:27:GLY:C	2.25	0.61
2:H:184:GLY:C	2:H:186:THR:H	2.08	0.61
2:H:289:ASP:C	2:H:291:LEU:H	2.09	0.61
2:H:385:GLU:C	2:H:386:LEU:HD12	2.25	0.61
2:H:655:ARG:HD3	2:H:690:THR:HG21	1.83	0.61
2:H:680:TYR:CD1	2:H:890:TYR:HE2	2.18	0.61
2:I:154:ILE:HD13	2:I:160:ILE:CA	2.31	0.61
2:J:125:ALA:CB	2:K:801:PHE:CE2	2.83	0.61
2:J:418:TYR:HE2	2:K:140:LYS:HD2	1.65	0.61
2:J:451:ALA:O	2:J:452:LEU:C	2.43	0.61
3:M:419:TYR:CE2	3:M:423:ILE:HD11	2.35	0.61
2:A:222:GLU:C	2:A:224:GLY:H	2.07	0.61
2:A:296:ALA:HB1	2:A:297:PRO:HD3	1.82	0.61
2:A:325:ALA:HB3	2:A:553:THR:CG2	2.29	0.61
2:A:379:ASN:OD1	2:A:493:ILE:HA	2.00	0.61
2:A:900:ARG:O	2:A:911:ALA:HA	2.00	0.61
2:B:102:ASP:HB2	2:B:589:TYR:HE1	1.64	0.61
2:B:166:THR:OG1	2:B:167:THR:N	2.32	0.61
2:B:784:TYR:CD1	2:B:829:VAL:HG13	2.35	0.61
2:C:76:THR:HG22	2:C:77:ALA:H	1.65	0.61
2:C:90:ASP:OD1	2:C:91:ASN:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:93:VAL:HG22	2:C:546:LEU:HD11	1.82	0.61
2:C:740:LEU:HD13	2:C:754:PHE:CE1	2.35	0.61
2:C:787:TYR:O	2:C:787:TYR:CG	2.48	0.61
2:C:805:MET:HE2	2:C:805:MET:CA	2.30	0.61
2:D:175:LYS:O	2:D:175:LYS:CD	2.42	0.61
2:D:268:GLU:OE2	2:E:827:THR:OG1	2.14	0.61
2:D:351:ASP:OD2	2:D:765:TYR:HB2	2.00	0.61
2:D:390:CYS:CB	2:F:435:ILE:HD11	2.27	0.61
2:E:314:TYR:HB2	2:E:557:ASN:O	2.00	0.61
2:E:371:ASP:HB3	2:E:374:VAL:CG1	2.26	0.61
2:E:379:ASN:HA	2:E:442:TRP:HZ2	1.66	0.61
2:E:460:ILE:O	2:E:460:ILE:HG13	1.99	0.61
2:E:461:THR:OG1	2:E:462:PRO:HD2	2.00	0.61
2:E:866:LEU:HG	2:E:867:TYR:CD1	2.34	0.61
2:F:329:SER:HA	2:G:90:ASP:N	2.11	0.61
2:G:50:VAL:HG22	2:G:51:ALA:H	1.64	0.61
2:G:136:LYS:CE	2:G:141:ILE:HD13	2.31	0.61
2:G:661:THR:HG21	2:G:888:LEU:HD12	1.80	0.61
2:G:890:TYR:HE1	2:G:892:LEU:HB2	1.66	0.61
2:H:188:TRP:HD1	2:H:394:GLY:CA	2.08	0.61
2:H:423:ALA:HB2	2:I:143:VAL:N	2.13	0.61
2:I:805:MET:HA	2:I:805:MET:CE	2.30	0.61
2:I:853:MET:HG3	2:I:854:SER:H	1.66	0.61
2:J:441:LEU:O	2:J:441:LEU:CG	2.48	0.61
2:J:727:TYR:HA	2:J:736:LYS:NZ	2.16	0.61
2:K:9:GLN:HE21	7:U:16:GLN:HG3	1.66	0.61
2:K:99:THR:CG2	2:K:588:LEU:HD11	2.30	0.61
2:K:211:PRO:O	2:K:211:PRO:CG	2.49	0.61
2:K:219:PRO:O	2:K:219:PRO:CG	2.48	0.61
2:L:152:THR:HA	2:L:197:LYS:HZ3	1.65	0.61
2:L:609:ASN:HD21	7:U:87:THR:CG2	2.13	0.61
3:M:247:THR:HG22	3:M:266:GLY:HA2	1.81	0.61
3:M:377:SER:HB2	3:M:479:THR:OG1	2.00	0.61
5:O:204:LEU:CD2	5:O:207:VAL:HG22	2.31	0.61
5:O:285:GLU:OE1	5:O:286:ILE:HD13	2.00	0.61
7:T:66:ARG:HH12	7:T:69:LEU:C	2.05	0.61
1:8:28:SER:OG	1:8:29:GLN:N	2.31	0.61
2:A:316:ASN:ND2	2:A:342:THR:HG22	2.15	0.61
2:A:498:SER:H	2:A:774:MET:HE1	1.65	0.61
2:B:182:GLN:HA	2:C:811:GLU:CB	2.28	0.61
2:B:496:ARG:O	2:B:496:ARG:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:662:PRO:HB3	2:B:672:PHE:HE1	1.65	0.61
2:B:824:ILE:HG22	2:B:825:GLY:N	2.15	0.61
2:C:149:PHE:HZ	2:C:162:ILE:HD11	1.65	0.61
2:C:323:VAL:HG12	2:C:555:GLU:CB	2.30	0.61
2:C:371:ASP:C	2:C:373:ASP:H	2.06	0.61
2:D:12:TYR:HB2	2:E:900:ARG:HH12	1.65	0.61
2:D:160:ILE:O	2:D:162:ILE:N	2.33	0.61
2:D:292:THR:HG23	2:F:188:TRP:CZ3	2.36	0.61
2:D:858:LEU:HD23	2:D:863:GLN:OE1	2.00	0.61
2:E:82:VAL:HG11	2:E:586:ILE:HB	1.82	0.61
2:E:376:ILE:HG23	2:E:774:MET:HE2	1.81	0.61
2:E:516:LEU:HD12	2:E:519:ARG:NH2	2.16	0.61
2:E:739:PHE:HE2	2:E:771:PHE:CE2	2.19	0.61
2:F:110:GLY:O	2:F:111:PRO:C	2.42	0.61
2:F:588:LEU:HD12	2:F:589:TYR:N	2.16	0.61
2:G:892:LEU:O	2:G:892:LEU:HD23	2.00	0.61
2:H:40:SER:O	2:H:41:LEU:HD23	2.00	0.61
2:H:186:THR:O	2:H:187:GLN:HB3	2.00	0.61
2:H:294:GLN:HE22	2:H:808:THR:C	2.09	0.61
2:H:744:LEU:HD13	2:H:749:ILE:O	1.99	0.61
2:I:376:ILE:HG22	2:I:376:ILE:O	2.00	0.61
2:J:108:ASP:OD1	2:J:527:ARG:NH1	2.33	0.61
2:K:453:TYR:C	2:K:502:MET:HE1	2.25	0.61
2:L:103:ILE:HG23	2:L:586:ILE:HD11	1.80	0.61
2:L:219:PRO:HA	2:L:226:GLN:HB3	1.83	0.61
2:L:347:GLN:HE22	2:L:682:ASP:CA	2.12	0.61
2:L:574:LEU:HA	2:L:577:ASP:OD1	2.01	0.61
2:L:650:GLY:O	2:L:894:GLU:HB2	1.99	0.61
3:M:274:LEU:O	3:M:341:ARG:HD3	2.00	0.61
3:M:279:ILE:HB	3:M:338:THR:CG2	2.31	0.61
3:M:322:ASP:CB	3:M:326:ARG:HB2	2.31	0.61
5:O:53:PHE:CZ	5:O:61:ARG:HA	2.35	0.61
2:A:6:MET:HB2	5:O:73:ARG:NH2	2.15	0.61
2:A:276:TYR:O	2:A:276:TYR:CD2	2.54	0.61
2:A:371:ASP:HB3	2:A:374:VAL:CG1	2.26	0.61
2:A:595:MET:HE3	2:A:603:LEU:HD13	1.83	0.61
2:A:608:ARG:HG2	2:A:608:ARG:NH1	2.15	0.61
2:A:781:THR:HA	2:A:787:TYR:CD2	2.36	0.61
2:B:375:ARG:NH1	2:B:840:ASP:OD2	2.32	0.61
2:B:629:ILE:CG1	2:B:636:VAL:HG11	2.29	0.61
2:C:119:THR:OG1	2:C:120:ALA:N	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:314:TYR:CE2	2:C:320:ASN:ND2	2.69	0.61
2:C:792:LEU:C	2:C:792:LEU:CD2	2.74	0.61
2:C:820:PRO:CD	2:C:820:PRO:O	2.45	0.61
2:D:175:LYS:CG	2:D:223:LYS:HG2	2.31	0.61
2:D:781:THR:HG22	2:D:781:THR:O	2.00	0.61
2:E:316:ASN:HA	2:E:336:ASP:OD2	2.01	0.61
2:E:344:LEU:O	2:E:344:LEU:HD23	2.00	0.61
2:E:474:TYR:CD1	2:E:474:TYR:O	2.54	0.61
2:F:134:GLU:O	2:F:135:TRP:HE3	1.84	0.61
2:F:149:PHE:HA	2:F:182:GLN:CG	2.30	0.61
2:F:175:LYS:HB3	2:F:175:LYS:HZ2	1.61	0.61
2:F:603:LEU:HD11	2:F:607:LEU:HD11	1.82	0.61
2:F:767:PHE:O	2:F:768:PHE:C	2.39	0.61
2:F:768:PHE:O	2:F:770:ASN:N	2.34	0.61
2:G:481:VAL:CG2	2:G:807:PRO:HD3	2.30	0.61
2:H:513:ASN:O	2:H:517:ARG:HB2	2.01	0.61
2:H:692:LYS:NZ	2:H:881:ASP:OD1	2.33	0.61
2:I:131:ASN:O	2:I:133:CYS:SG	2.56	0.61
2:I:161:GLN:N	2:I:169:GLN:OE1	2.33	0.61
2:I:748:ASN:OD1	2:I:853:MET:HG3	2.01	0.61
2:K:229:LEU:CD2	2:K:240:SER:HB2	2.29	0.61
2:K:356:ARG:HH12	2:K:367:VAL:HG23	1.65	0.61
2:L:115:PRO:HA	2:L:302:TYR:CE1	2.35	0.61
2:L:511:HIS:CD2	2:L:512:ARG:HG2	2.35	0.61
2:L:850:SER:N	2:L:861:LEU:HD11	2.16	0.61
3:M:319:VAL:O	3:M:319:VAL:HG13	2.00	0.61
3:M:374:VAL:HG22	3:M:405:LEU:CD2	2.21	0.61
2:A:104:ARG:HB2	2:A:104:ARG:HH11	1.65	0.61
2:A:291:LEU:O	2:A:293:GLN:HB2	2.01	0.61
2:A:588:LEU:HD12	2:A:589:TYR:N	2.15	0.61
2:B:312:LEU:HD12	2:B:565:ILE:HG21	1.82	0.61
2:B:868:ALA:O	2:B:870:SER:N	2.31	0.61
2:C:290:LEU:O	2:C:291:LEU:C	2.43	0.61
2:C:834:GLN:O	2:C:835:LYS:HG2	2.01	0.61
2:D:24:LEU:HD11	2:D:45:PHE:CE2	2.36	0.61
2:D:65:THR:CG2	2:E:711:LEU:HD13	2.30	0.61
2:D:93:VAL:CG1	2:D:546:LEU:HD22	2.31	0.61
2:D:271:ASP:O	2:D:272:THR:HG23	2.01	0.61
2:D:297:PRO:HG2	2:E:384:ASP:O	2.01	0.61
2:D:739:PHE:O	2:D:740:LEU:C	2.42	0.61
2:E:248:ALA:HA	2:E:257:LYS:CB	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:375:ARG:HD3	2:E:507:PRO:HG3	1.82	0.61
2:E:447:TYR:O	2:E:447:TYR:CG	2.54	0.61
2:E:504:ASN:O	2:E:686:TYR:HE2	1.84	0.61
2:E:706:GLY:O	2:E:707:ASN:C	2.44	0.61
2:E:864:ASN:O	2:E:868:ALA:N	2.30	0.61
2:F:722:VAL:HG22	2:F:722:VAL:O	2.00	0.61
2:G:140:LYS:CB	2:I:418:TYR:CB	2.77	0.61
2:G:909:ILE:HG22	2:G:909:ILE:O	2.00	0.61
2:H:309:PHE:HE1	2:H:364:ASN:HB2	1.65	0.61
2:H:824:ILE:HG22	2:H:825:GLY:H	1.65	0.61
2:J:415:ASP:C	2:J:417:ASN:N	2.58	0.61
2:J:512:ARG:HA	2:J:517:ARG:HD2	1.81	0.61
2:J:525:ASN:ND2	2:K:495:ALA:HB3	2.16	0.61
2:J:850:SER:HB3	2:J:861:LEU:CD1	2.29	0.61
2:K:116:TYR:CD2	2:L:493:ILE:HG13	2.36	0.61
2:K:500:ASP:HA	2:K:503:ASP:OD2	2.01	0.61
2:L:59:ASP:OD2	7:U:102:THR:OG1	2.06	0.61
2:L:506:ASN:ND2	2:L:677:SER:OG	2.25	0.61
5:O:131:GLU:HA	5:O:131:GLU:OE2	2.01	0.61
7:T:189:ILE:HD12	7:T:193:GLN:HG2	1.83	0.61
2:A:46:ARG:HH12	2:B:898:VAL:HG22	1.65	0.61
2:A:88:VAL:HG12	2:A:550:GLY:O	2.01	0.61
2:A:94:LEU:HD12	2:A:592:PHE:CE1	2.36	0.61
2:B:215:SER:C	2:C:816:PRO:HB3	2.25	0.61
2:B:306:ARG:O	2:B:309:PHE:N	2.30	0.61
2:B:453:TYR:HE2	2:B:511:HIS:H	1.47	0.61
2:B:539:PHE:HE1	2:B:541:ALA:HB3	1.65	0.61
2:B:545:LEU:HD12	2:B:546:LEU:N	2.16	0.61
2:B:648:PHE:HE2	2:B:651:TRP:CE3	2.19	0.61
2:B:698:PHE:HB3	2:B:702:VAL:CG2	2.31	0.61
2:B:895:VAL:HG21	2:B:916:THR:C	2.26	0.61
2:C:604:GLU:O	2:C:604:GLU:CG	2.37	0.61
2:C:738:TRP:CZ3	2:C:846:ILE:HD11	2.36	0.61
2:D:406:LYS:CB	2:E:156:LYS:HZ2	2.14	0.61
2:D:471:LYS:HA	2:D:476:TYR:CD2	2.36	0.61
2:D:638:ILE:HD11	2:D:876:MET:SD	2.40	0.61
2:E:96:MET:CG	2:E:96:MET:O	2.45	0.61
2:E:271:ASP:HA	2:E:298:ASN:ND2	2.16	0.61
2:E:781:THR:HA	2:E:787:TYR:CD2	2.35	0.61
2:F:815:TYR:HD2	2:F:816:PRO:CD	2.10	0.61
2:G:349:MET:O	2:G:350:LEU:C	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:702:VAL:O	2:G:702:VAL:HG23	2.01	0.61
2:G:788:GLN:HE22	2:I:220:THR:C	2.09	0.61
2:G:855:MET:HE3	2:I:56:VAL:HG11	1.82	0.61
2:H:184:GLY:O	2:H:186:THR:N	2.34	0.61
2:H:710:LEU:H	2:H:710:LEU:HD12	1.66	0.61
2:J:360:PHE:HD1	2:J:362:MET:H	1.48	0.61
2:J:400:ASP:O	2:J:402:TYR:N	2.34	0.61
2:J:890:TYR:O	2:J:890:TYR:CD1	2.54	0.61
2:K:86:LEU:O	2:K:86:LEU:HD12	2.00	0.61
2:K:813:GLN:CG	2:K:814:ALA:H	2.14	0.61
5:O:261:TYR:HD1	5:O:261:TYR:H	1.47	0.61
2:A:10:TRP:HZ3	2:B:866:LEU:HD12	1.64	0.60
2:A:81:LYS:HG2	2:A:557:ASN:ND2	2.16	0.60
2:A:280:VAL:HG22	2:A:281:ALA:H	1.66	0.60
2:B:360:PHE:O	2:B:360:PHE:CG	2.53	0.60
2:B:863:GLN:CA	2:B:866:LEU:HD13	2.22	0.60
2:C:355:ASP:O	2:C:357:SER:N	2.34	0.60
2:C:434:GLU:O	2:C:435:ILE:HG13	2.01	0.60
2:D:376:ILE:HG12	2:D:774:MET:HE2	1.83	0.60
2:D:416:ASP:N	2:D:416:ASP:OD1	2.31	0.60
2:E:94:LEU:HD23	2:E:96:MET:HA	1.83	0.60
2:E:162:ILE:HD12	2:E:170:PRO:HB3	1.83	0.60
2:E:694:VAL:HG12	2:E:878:PHE:HD1	1.65	0.60
2:E:694:VAL:HG23	2:E:716:PHE:HB2	1.81	0.60
2:E:711:LEU:HD21	2:E:727:TYR:CE1	2.35	0.60
2:E:747:TYR:CE1	2:E:762:ASP:HB2	2.36	0.60
2:F:66:LEU:HD12	2:F:592:PHE:CE1	2.35	0.60
2:F:134:GLU:O	2:F:134:GLU:CG	2.44	0.60
2:F:217:ALA:HB3	2:F:226:GLN:HG2	1.82	0.60
2:G:61:SER:N	2:H:707:ASN:ND2	2.49	0.60
2:G:94:LEU:O	2:G:94:LEU:CD1	2.49	0.60
2:G:450:VAL:HG12	2:G:487:LEU:CD1	2.28	0.60
2:G:817:ALA:HB2	2:I:121:TYR:HB3	1.81	0.60
2:H:370:TYR:HD1	2:H:508:PHE:HE1	1.48	0.60
2:H:399:THR:HG23	2:H:424:GLU:CG	2.31	0.60
2:I:130:PRO:HG2	2:I:144:ARG:HH11	1.65	0.60
2:I:303:ILE:HG23	2:I:566:LEU:HD13	1.82	0.60
2:I:349:MET:HA	2:I:619:TYR:CD2	2.35	0.60
2:J:447:TYR:CZ	2:J:452:LEU:HD11	2.35	0.60
2:J:621:CYS:HB2	2:J:895:VAL:O	2.01	0.60
2:J:706:GLY:O	2:J:707:ASN:C	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:254:ASN:O	2:K:255:GLU:CG	2.45	0.60
2:K:307:ASP:OD1	2:K:307:ASP:C	2.43	0.60
2:K:341:ASN:HB3	2:K:344:LEU:HB3	1.83	0.60
2:L:224:GLY:O	2:L:226:GLN:N	2.34	0.60
2:A:69:VAL:CG2	2:A:70:PRO:HD2	2.30	0.60
2:A:96:MET:HE1	2:A:99:THR:HG21	1.82	0.60
2:A:781:THR:HA	2:A:787:TYR:CE2	2.36	0.60
2:C:119:THR:HB	2:C:213:TYR:HE1	1.65	0.60
2:C:314:TYR:HB2	2:C:557:ASN:O	2.00	0.60
2:C:516:LEU:CA	2:C:519:ARG:HH21	2.06	0.60
2:D:504:ASN:HD22	2:D:883:MET:CE	2.13	0.60
2:D:548:LEU:HD12	2:D:604:GLU:HG2	1.81	0.60
2:D:610:ASP:HB2	2:D:902:HIS:CD2	2.37	0.60
2:D:658:THR:HB	2:D:886:PRO:O	2.01	0.60
2:F:276:TYR:O	2:F:276:TYR:CD2	2.54	0.60
2:F:474:TYR:O	2:F:478:ASN:ND2	2.27	0.60
2:F:490:TYR:O	2:F:490:TYR:HD1	1.82	0.60
2:F:683:GLY:HA2	2:F:685:PHE:CE1	2.36	0.60
2:G:52:PRO:HG2	2:H:855:MET:HE3	1.82	0.60
2:G:64:LEU:HB2	2:H:709:ARG:HB3	1.83	0.60
2:G:827:THR:HG23	2:G:827:THR:O	2.00	0.60
2:H:376:ILE:CG2	2:H:496:ARG:HD2	2.31	0.60
2:I:400:ASP:H	2:I:425:ILE:C	2.08	0.60
2:I:496:ARG:HG3	2:I:496:ARG:NH1	2.13	0.60
2:J:399:THR:CG2	2:J:401:THR:HG23	2.31	0.60
2:J:494:GLY:HA2	2:L:115:PRO:O	2.01	0.60
2:J:530:PRO:HD2	2:K:833:THR:CG2	2.31	0.60
2:J:733:ASN:HD21	2:J:835:LYS:C	2.09	0.60
2:L:312:LEU:HD11	2:L:565:ILE:HB	1.82	0.60
2:L:848:PHE:O	2:L:861:LEU:HD13	2.01	0.60
3:M:289:GLU:HA	3:M:292:ILE:CG1	2.29	0.60
3:M:292:ILE:O	3:M:296:LYS:HG2	2.02	0.60
5:O:198:GLN:HB3	5:O:208:ASN:OD1	2.02	0.60
6:Q:20:TYR:CD1	6:R:20:TYR:CB	2.85	0.60
6:S:43:ARG:HB3	6:S:44:PRO:HD3	0.61	0.60
1:5:19:MET:O	1:5:20:GLY:C	2.42	0.60
2:A:704:TRP:O	2:A:705:PRO:C	2.44	0.60
2:B:296:ALA:CB	2:B:297:PRO:CD	2.57	0.60
2:B:334:VAL:HG22	2:B:542:ILE:HD11	1.83	0.60
2:B:454:LEU:HD22	2:B:502:MET:HB3	1.81	0.60
2:B:477:MET:HG3	2:B:570:LEU:HD21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:655:ARG:CZ	2:B:887:THR:HG21	2.31	0.60
2:C:435:ILE:HG22	2:C:437:LEU:HG	1.82	0.60
2:C:476:TYR:OH	2:C:480:ARG:NH2	2.34	0.60
2:D:302:TYR:HD2	2:D:517:ARG:HA	1.66	0.60
2:D:588:LEU:HD23	2:D:588:LEU:C	2.26	0.60
2:D:711:LEU:HD11	2:F:65:THR:HB	1.83	0.60
2:E:658:THR:O	2:E:659:LYS:C	2.44	0.60
2:F:516:LEU:HD22	2:F:567:GLN:HG2	1.82	0.60
2:G:59:ASP:O	2:G:61:SER:N	2.34	0.60
2:G:94:LEU:CD1	2:G:590:ALA:HB1	2.31	0.60
2:G:135:TRP:O	2:G:135:TRP:CG	2.53	0.60
2:G:488:ASP:OD1	2:G:489:THR:N	2.34	0.60
2:H:147:ALA:HB3	2:H:198:VAL:HG22	1.82	0.60
2:H:303:ILE:HG22	2:H:303:ILE:O	2.01	0.60
2:H:627:TYR:CE1	6:P:24:ARG:HB3	2.35	0.60
2:I:362:MET:O	2:I:363:TRP:C	2.42	0.60
2:I:688:ASN:O	2:I:844:TRP:NE1	2.34	0.60
2:J:107:LEU:CD1	2:J:305:PHE:HE1	2.14	0.60
2:J:334:VAL:O	2:J:334:VAL:HG23	2.01	0.60
2:J:429:ASN:HB3	2:L:810:ARG:NH1	2.17	0.60
2:J:486:ALA:O	2:J:487:LEU:HD12	2.01	0.60
2:J:497:TRP:CE2	2:J:776:ARG:HD3	2.35	0.60
2:K:297:PRO:CG	2:K:297:PRO:O	2.49	0.60
2:K:508:PHE:HE2	2:K:684:THR:HB	1.65	0.60
2:L:203:LEU:HD12	2:L:203:LEU:N	2.15	0.60
2:L:516:LEU:HD13	2:L:519:ARG:HH21	1.66	0.60
2:L:839:CYS:HG	2:L:842:THR:HG1	1.49	0.60
3:M:282:LEU:O	3:M:319:VAL:HG12	2.01	0.60
6:P:26:PRO:HG2	6:P:31:VAL:HG11	1.82	0.60
6:Q:17:PHE:HD1	6:Q:17:PHE:C	2.09	0.60
2:A:12:TYR:O	2:A:12:TYR:CD1	2.53	0.60
2:A:80:TYR:CE1	2:A:586:ILE:HD11	2.35	0.60
2:A:306:ARG:HG3	2:A:310:ILE:CG2	2.30	0.60
2:A:642:SER:N	2:A:873:ALA:HB2	2.16	0.60
2:A:777:GLN:NE2	2:C:529:VAL:HG12	2.14	0.60
2:B:182:GLN:HA	2:C:811:GLU:CG	2.30	0.60
2:B:545:LEU:HD13	2:B:901:ILE:CD1	2.31	0.60
2:B:797:ASN:O	2:B:797:ASN:CG	2.37	0.60
2:C:207:THR:HG21	2:C:264:ASN:HA	1.81	0.60
2:C:767:PHE:HE1	2:C:771:PHE:CB	2.14	0.60
2:D:124:LEU:HB2	2:E:798:ASN:HD21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:142:LYS:O	2:E:143:VAL:HG13	2.00	0.60
2:E:691:PHE:CD1	2:E:880:VAL:HG12	2.36	0.60
2:F:91:ASN:HB3	2:F:597:HIS:HB3	1.83	0.60
2:F:174:ASP:O	2:F:177:TYR:N	2.34	0.60
2:F:744:LEU:HD21	2:F:751:TYR:CE2	2.37	0.60
2:F:804:TYR:CD1	2:F:805:MET:HG2	2.37	0.60
2:G:257:LYS:O	2:G:258:ALA:HB3	2.01	0.60
2:G:626:LEU:HD11	2:G:680:TYR:HE2	1.66	0.60
2:G:647:ALA:HB3	2:G:916:THR:HG21	1.83	0.60
2:H:10:TRP:CZ2	2:I:647:ALA:HB2	2.37	0.60
2:H:103:ILE:HB	2:H:533:ILE:HG12	1.83	0.60
2:H:356:ARG:HH21	2:H:367:VAL:CB	2.15	0.60
2:H:421:ARG:HH22	2:I:142:LYS:HZ2	1.49	0.60
2:H:539:PHE:CE1	2:H:541:ALA:HB3	2.34	0.60
2:I:92:ARG:H	2:I:549:PRO:HG3	1.65	0.60
2:I:298:ASN:ND2	2:I:478:ASN:HD21	2.00	0.60
2:I:367:VAL:HG11	2:I:764:MET:SD	2.41	0.60
2:I:392:PRO:HD3	2:I:431:PHE:O	2.00	0.60
2:I:545:LEU:HA	2:I:616:PHE:CZ	2.36	0.60
2:J:349:MET:SD	2:J:353:LEU:HD12	2.42	0.60
2:J:371:ASP:HB3	2:J:374:VAL:HG12	1.82	0.60
2:J:518:TYR:O	2:J:522:LEU:HB2	2.00	0.60
2:L:492:ASN:ND2	2:L:497:TRP:HB3	2.17	0.60
3:M:70:VAL:HG13	3:M:495:LEU:CD2	2.31	0.60
3:M:225:GLY:O	3:M:226:VAL:CG2	2.48	0.60
3:M:381:MET:SD	3:M:498:VAL:HG21	2.41	0.60
3:M:453:VAL:CG1	3:M:454:SER:N	2.64	0.60
2:A:217:ALA:O	2:A:226:GLN:NE2	2.35	0.60
2:A:344:LEU:O	2:A:347:GLN:N	2.35	0.60
2:A:447:TYR:O	2:A:452:LEU:HD12	2.01	0.60
2:A:507:PRO:HG2	2:A:508:PHE:CE1	2.35	0.60
2:B:301:ASN:O	2:B:302:TYR:C	2.43	0.60
2:B:302:TYR:CE2	2:B:517:ARG:HG3	2.31	0.60
2:B:310:ILE:HD12	2:B:681:LEU:O	2.00	0.60
2:B:645:TRP:CZ3	2:B:648:PHE:CG	2.90	0.60
2:C:56:VAL:O	2:C:57:THR:OG1	2.18	0.60
2:C:154:ILE:CD1	2:C:259:VAL:HB	2.32	0.60
2:C:390:CYS:SG	2:C:433:MET:CA	2.90	0.60
2:C:746:HIS:HD2	2:C:845:ARG:HE	1.47	0.60
2:C:868:ALA:HB1	7:T:14:GLN:OE1	2.02	0.60
2:D:116:TYR:HB3	2:E:493:ILE:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:298:ASN:HB3	2:D:478:ASN:ND2	2.16	0.60
2:D:307:ASP:H	2:D:519:ARG:HH22	1.49	0.60
2:D:424:GLU:O	2:D:425:ILE:HG12	2.00	0.60
2:F:308:ASN:HD21	2:F:356:ARG:HH12	1.50	0.60
2:F:391:PHE:HB3	2:F:392:PRO:HD2	1.81	0.60
2:F:876:MET:HE2	2:F:878:PHE:CZ	2.36	0.60
2:G:387:PRO:HB2	2:G:389:TYR:CE1	2.36	0.60
2:G:506:ASN:OD1	2:G:509:ASN:ND2	2.35	0.60
2:G:729:VAL:HG22	2:G:730:ALA:N	2.16	0.60
2:H:83:ARG:CG	2:H:555:GLU:HB3	2.28	0.60
2:H:303:ILE:HA	2:H:567:GLN:O	2.01	0.60
2:H:487:LEU:HD21	2:H:499:PRO:CG	2.31	0.60
2:H:521:MET:SD	2:I:380:HIS:NE2	2.74	0.60
2:H:613:ASP:CG	2:H:902:HIS:HB2	2.26	0.60
2:H:627:TYR:O	2:H:889:LEU:N	2.32	0.60
2:I:655:ARG:CZ	2:I:887:THR:HG21	2.31	0.60
2:J:588:LEU:HD12	2:J:589:TYR:N	2.15	0.60
2:J:625:MET:CB	2:J:891:VAL:HG13	2.32	0.60
2:J:655:ARG:NH2	2:J:887:THR:HG21	2.16	0.60
2:J:781:THR:HG22	2:J:787:TYR:CE2	2.37	0.60
2:J:793:PRO:HB3	2:J:805:MET:SD	2.41	0.60
2:K:216:TYR:HB3	2:K:267:ILE:HA	1.78	0.60
2:K:362:MET:CE	2:L:754:PHE:HD2	2.12	0.60
2:K:525:ASN:ND2	2:L:495:ALA:HB2	2.15	0.60
2:L:518:TYR:CE1	2:L:522:LEU:HD12	2.37	0.60
2:L:617:ASN:HB2	2:L:897:ASP:O	2.02	0.60
5:O:90:GLU:HG2	5:O:90:GLU:O	2.01	0.60
5:O:172:PHE:CD2	5:O:220:TRP:HH2	2.19	0.60
6:S:34:ASN:O	6:S:47:PRO:HB3	2.01	0.60
1:5:16:ARG:HH21	1:5:16:ARG:HG3	1.63	0.60
2:A:112:SER:HB2	2:A:474:TYR:CG	2.37	0.60
2:A:246:PHE:O	2:A:247:PHE:HB2	2.00	0.60
2:A:389:TYR:CE2	2:C:433:MET:SD	2.95	0.60
2:B:96:MET:HE1	2:B:554:TYR:CE2	2.36	0.60
2:B:323:VAL:O	2:B:325:ALA:N	2.32	0.60
2:B:654:THR:HG21	2:B:685:PHE:CD2	2.37	0.60
2:C:187:GLN:O	2:C:190:SER:N	2.34	0.60
2:C:390:CYS:C	2:C:391:PHE:CG	2.79	0.60
2:D:517:ARG:O	2:D:521:MET:HE2	2.02	0.60
2:E:144:ARG:H	2:E:144:ARG:HD2	1.67	0.60
2:E:197:LYS:HE2	2:E:197:LYS:CA	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:294:GLN:HE22	2:E:808:THR:HA	1.65	0.60
2:E:533:ILE:HG22	2:E:535:VAL:H	1.67	0.60
2:E:653:PHE:CB	2:E:691:PHE:HE2	2.13	0.60
2:F:679:PRO:HA	2:F:684:THR:HG22	1.83	0.60
2:F:866:LEU:CD1	4:N:174:GLN:CD	2.67	0.60
2:F:912:VAL:HG22	4:N:192:VAL:HG22	1.83	0.60
2:G:132:PRO:O	2:G:203:LEU:HB2	2.02	0.60
2:H:255:GLU:O	2:H:256:PRO:C	2.43	0.60
2:H:537:GLN:OE1	2:H:537:GLN:HA	2.00	0.60
2:H:565:ILE:HG13	2:H:566:LEU:CD1	2.29	0.60
2:I:71:VAL:HG21	2:I:85:THR:HG23	1.84	0.60
2:I:290:LEU:HD12	2:I:293:GLN:OE1	2.00	0.60
2:I:376:ILE:CD1	2:I:772:GLN:HB3	2.31	0.60
2:I:407:ALA:N	2:I:413:THR:O	2.34	0.60
2:J:9:GLN:NE2	7:T:31:MET:SD	2.75	0.60
2:J:64:LEU:HD23	2:K:709:ARG:HB3	1.83	0.60
2:J:110:GLY:C	2:J:112:SER:H	2.09	0.60
2:J:488:ASP:H	2:J:491:VAL:CG1	2.14	0.60
2:J:710:LEU:HD21	2:J:737:ASP:HB2	1.83	0.60
2:K:252:THR:C	2:K:254:ASN:N	2.58	0.60
2:L:547:LEU:HD22	2:L:552:TYR:CZ	2.37	0.60
2:L:625:MET:HE1	2:L:893:PHE:CD2	2.37	0.60
6:S:54:THR:O	6:S:54:THR:OG1	2.19	0.60
2:A:13:MET:HE2	2:B:898:VAL:HG11	1.81	0.60
2:A:518:TYR:HE1	2:B:496:ARG:HH11	1.50	0.60
2:B:46:ARG:HH11	2:B:46:ARG:HG2	1.67	0.60
2:B:112:SER:O	2:B:301:ASN:ND2	2.35	0.60
2:B:154:ILE:HD13	2:B:259:VAL:HG21	1.83	0.60
2:B:182:GLN:NE2	2:B:185:GLN:HA	2.16	0.60
2:B:662:PRO:HA	2:B:672:PHE:HD1	1.66	0.60
2:B:678:VAL:O	2:B:682:ASP:HB3	2.02	0.60
2:C:46:ARG:HD3	2:C:47:ASN:N	2.17	0.60
2:C:117:SER:OG	2:C:118:GLY:N	2.34	0.60
2:C:435:ILE:O	2:C:437:LEU:N	2.35	0.60
2:D:135:TRP:CZ3	2:D:286:SER:HB3	2.37	0.60
2:E:62:GLN:CG	2:E:92:ARG:HD2	2.31	0.60
2:E:103:ILE:HD12	2:E:533:ILE:HG21	1.83	0.60
2:E:107:LEU:HD23	2:E:107:LEU:C	2.27	0.60
2:E:403:SER:H	2:F:250:PRO:CB	2.15	0.60
2:E:688:ASN:OD1	2:E:844:TRP:NE1	2.34	0.60
2:E:920:ALA:H	7:T:106:ALA:CB	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:144:ARG:CG	2:F:144:ARG:NH2	2.58	0.60
2:F:337:LEU:HD11	4:N:191:LYS:NZ	2.15	0.60
2:F:506:ASN:HB3	2:F:686:TYR:CZ	2.37	0.60
2:F:655:ARG:O	2:F:687:LEU:HB2	2.02	0.60
2:F:758:GLU:OE1	2:F:761:LYS:HE2	2.01	0.60
2:F:797:ASN:HD22	2:F:817:ALA:HB1	1.65	0.60
2:F:825:GLY:O	2:F:827:THR:N	2.35	0.60
2:G:124:LEU:O	2:H:801:PHE:HD2	1.85	0.60
2:G:230:ILE:HD11	2:G:241:ASP:HB3	1.83	0.60
2:G:287:SER:OG	2:G:288:ALA:N	2.34	0.60
2:G:321:MET:HE3	2:G:334:VAL:HG13	1.83	0.60
2:H:147:ALA:HB1	2:H:198:VAL:HG22	1.82	0.60
2:H:154:ILE:HD11	2:H:256:PRO:CB	2.30	0.60
2:H:186:THR:O	2:I:292:THR:HG23	2.02	0.60
2:H:215:SER:HB3	2:I:816:PRO:HB3	1.84	0.60
2:H:315:TYR:CZ	2:H:538:LYS:HB2	2.36	0.60
2:H:497:TRP:CH2	2:H:834:GLN:HB2	2.36	0.60
2:H:627:TYR:CD1	6:P:24:ARG:HA	2.35	0.60
2:H:781:THR:HG23	2:H:787:TYR:HE2	1.66	0.60
2:I:150:ILE:HG22	2:I:197:LYS:HD2	1.83	0.60
2:I:692:LYS:HG2	2:I:879:GLU:O	2.02	0.60
2:J:117:SER:HB3	2:J:300:PRO:HB3	1.83	0.60
2:J:164:THR:HG22	2:J:168:ASN:OD1	2.02	0.60
2:J:302:TYR:OH	2:J:517:ARG:NH2	2.35	0.60
2:J:518:TYR:CE1	2:J:522:LEU:HD12	2.36	0.60
2:K:405:ILE:HD11	2:L:248:ALA:N	2.17	0.60
2:K:546:LEU:HB3	2:K:614:GLN:OE1	2.02	0.60
2:K:643:ARG:CD	7:T:28:SER:HB3	2.31	0.60
2:K:792:LEU:CD2	2:K:805:MET:HE1	2.31	0.60
2:K:901:ILE:HG12	2:K:911:ALA:HB2	1.84	0.60
2:L:134:GLU:HB2	2:L:204:LYS:C	2.26	0.60
2:L:323:VAL:HG23	2:L:332:ASN:CG	2.27	0.60
2:L:326:GLY:HA3	2:L:907:GLY:O	2.02	0.60
2:L:462:PRO:O	2:L:465:ILE:HG22	2.02	0.60
3:M:271:TYR:C	3:M:272:GLU:HG2	2.26	0.60
5:O:163:PRO:HG2	5:O:169:TYR:CG	2.37	0.60
5:O:204:LEU:HD12	7:T:213:LEU:C	2.27	0.60
2:A:46:ARG:HG3	2:B:615:SER:OG	2.01	0.60
2:A:98:SER:OG	2:A:591:ASN:N	2.34	0.60
2:A:297:PRO:CG	2:A:297:PRO:O	2.48	0.60
2:B:152:THR:HB	2:B:153:ASN:ND2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:447:TYR:CE1	2:B:452:LEU:HB2	2.36	0.60
2:B:473:THR:O	2:B:474:TYR:C	2.45	0.60
2:C:64:LEU:O	2:C:65:THR:HG22	2.01	0.60
2:C:156:LYS:C	2:C:158:ASN:N	2.53	0.60
2:C:285:ILE:HG22	2:C:285:ILE:O	2.02	0.60
2:C:387:PRO:O	2:C:388:ASN:C	2.41	0.60
2:C:889:LEU:CD2	2:C:891:VAL:HG23	2.32	0.60
2:D:80:TYR:CE1	2:D:558:PHE:HB2	2.36	0.60
2:D:89:GLY:CA	2:D:92:ARG:HD2	2.30	0.60
2:E:189:ASN:HD22	2:E:190:SER:HB2	1.67	0.60
2:E:474:TYR:O	2:E:474:TYR:HD1	1.85	0.60
2:E:655:ARG:CZ	2:E:887:THR:HG21	2.32	0.60
2:G:249:LEU:HD12	2:G:252:THR:HG23	1.82	0.60
2:G:250:PRO:CA	2:I:421:ARG:HH22	2.14	0.60
2:G:390:CYS:SG	2:G:433:MET:HB2	2.41	0.60
2:G:798:ASN:OD1	2:I:124:LEU:HB2	2.02	0.60
2:H:109:ARG:NH1	2:H:529:VAL:HG11	2.15	0.60
2:H:704:TRP:N	2:H:705:PRO:CD	2.64	0.60
2:I:496:ARG:O	2:I:774:MET:HB2	2.01	0.60
2:I:688:ASN:ND2	2:I:842:THR:O	2.34	0.60
2:J:126:PRO:O	2:J:126:PRO:CG	2.49	0.60
2:J:337:LEU:HD11	2:J:920:ALA:HB1	1.84	0.60
2:J:346:TYR:CG	2:J:538:LYS:HG2	2.37	0.60
2:J:468:PRO:HG2	2:J:475:ALA:HB3	1.84	0.60
2:K:78:TYR:HB3	2:K:668:PHE:CD2	2.36	0.60
2:K:125:ALA:HA	2:L:801:PHE:CE2	2.36	0.60
2:K:219:PRO:O	2:K:219:PRO:HG2	2.01	0.60
5:O:89:THR:HG22	5:O:94:ILE:CG1	2.24	0.60
2:A:550:GLY:HA2	2:A:906:ARG:HH12	1.66	0.60
2:A:899:VAL:HG23	2:A:913:TYR:CD1	2.37	0.60
2:B:336:ASP:HA	2:B:340:ARG:NH2	2.17	0.60
2:B:453:TYR:HE2	2:B:511:HIS:N	2.00	0.60
2:C:72:ASP:HB3	2:C:83:ARG:CG	2.31	0.60
2:C:72:ASP:HB2	2:C:83:ARG:HH11	1.66	0.60
2:C:136:LYS:HG2	2:C:137:ASP:N	2.17	0.60
2:C:606:MET:HE3	7:T:177:LEU:CD1	2.31	0.60
2:C:811:GLU:C	2:C:811:GLU:OE1	2.45	0.60
2:C:866:LEU:HD21	7:T:231:GLY:O	2.01	0.60
2:D:62:GLN:HE22	2:D:92:ARG:HB3	1.65	0.60
2:D:158:ASN:HB2	2:D:171:ILE:CG2	2.32	0.60
2:D:429:ASN:CG	2:F:810:ARG:HH12	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:506:ASN:HD22	2:D:509:ASN:CG	2.10	0.60
2:D:800:GLY:C	2:D:802:VAL:H	2.09	0.60
2:E:96:MET:HG3	2:E:96:MET:O	2.00	0.60
2:E:403:SER:H	2:F:250:PRO:CA	2.14	0.60
2:E:807:PRO:HD2	2:E:808:THR:HG22	1.84	0.60
2:F:113:PHE:CE2	2:F:115:PRO:HB3	2.35	0.60
2:F:149:PHE:HD2	2:F:150:ILE:H	1.50	0.60
2:F:347:GLN:OE1	2:F:682:ASP:HA	2.02	0.60
2:F:773:PRO:O	2:F:773:PRO:CG	2.39	0.60
2:G:140:LYS:NZ	2:I:420:ASP:OD1	2.35	0.60
2:G:218:LYS:HB2	2:G:218:LYS:NZ	2.17	0.60
2:G:252:THR:O	2:G:252:THR:OG1	2.14	0.60
2:G:382:VAL:O	2:G:384:ASP:N	2.32	0.60
2:G:623:ALA:O	2:G:625:MET:HE3	2.01	0.60
2:G:824:ILE:HD11	2:I:116:TYR:CE2	2.37	0.60
2:H:382:VAL:HG21	2:H:439:ALA:CA	2.32	0.60
2:H:466:THR:C	2:H:467:LEU:HD12	2.27	0.60
2:H:678:VAL:HG13	2:H:681:LEU:HD23	1.83	0.60
2:I:151:GLY:C	2:I:197:LYS:HB3	2.27	0.60
2:I:209:MET:HE2	2:I:286:SER:CB	2.31	0.60
2:J:41:LEU:HD21	2:K:546:LEU:CD1	2.31	0.60
2:J:222:GLU:O	2:J:223:LYS:C	2.35	0.60
2:K:338:GLN:NE2	2:K:665:GLY:HA2	2.16	0.60
2:K:406:LYS:NZ	2:K:408:ASN:HB3	2.16	0.60
2:K:545:LEU:HD23	2:K:546:LEU:N	2.17	0.60
2:K:729:VAL:CG2	2:K:734:MET:HB3	2.32	0.60
2:L:223:LYS:HB3	2:L:223:LYS:NZ	2.17	0.60
3:M:223:MET:N	3:M:224:PRO:HD3	2.17	0.60
5:O:240:THR:O	5:O:244:LEU:HD23	2.02	0.60
6:P:18:SER:O	6:P:18:SER:OG	2.16	0.60
2:A:690:THR:HG22	2:A:880:VAL:HG13	1.83	0.60
2:A:810:ARG:CZ	2:A:810:ARG:HB3	2.32	0.60
2:B:217:ALA:HB3	2:B:226:GLN:NE2	2.16	0.60
2:B:344:LEU:O	2:B:347:GLN:N	2.35	0.60
2:B:649:ARG:HH21	2:B:894:GLU:HB3	1.65	0.60
2:B:711:LEU:CB	2:B:737:ASP:HB2	2.31	0.60
2:C:306:ARG:CD	2:C:567:GLN:HB2	2.32	0.60
2:D:160:ILE:O	2:D:171:ILE:HD13	2.01	0.60
2:D:192:VAL:O	2:D:195:ALA:N	2.35	0.60
2:D:306:ARG:NH2	2:D:675:SER:O	2.35	0.60
2:D:383:GLU:OE1	2:F:512:ARG:NH2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:403:SER:HB2	2:D:413:THR:CG2	2.31	0.60
2:E:384:ASP:O	2:E:384:ASP:OD1	2.19	0.60
2:F:171:ILE:C	2:F:173:ALA:H	2.09	0.60
2:G:254:ASN:HB3	2:I:413:THR:HG21	1.82	0.60
2:G:658:THR:HG23	2:G:886:PRO:C	2.26	0.60
2:H:96:MET:HG3	2:H:99:THR:OG1	2.02	0.60
2:H:335:VAL:HB	2:H:913:TYR:CE2	2.37	0.60
2:H:506:ASN:HB3	2:H:509:ASN:OD1	2.02	0.60
2:I:865:MET:O	2:I:869:ASN:ND2	2.34	0.60
2:K:297:PRO:CD	2:K:297:PRO:O	2.49	0.60
2:K:316:ASN:HA	2:K:336:ASP:CG	2.26	0.60
2:K:379:ASN:HD22	2:K:493:ILE:CA	2.09	0.60
2:K:497:TRP:CZ2	2:K:836:LYS:HE2	2.37	0.60
2:L:91:ASN:ND2	7:U:92:PRO:HG2	2.17	0.60
2:L:220:THR:N	2:L:226:GLN:HB3	2.16	0.60
2:L:549:PRO:HG2	2:L:604:GLU:OE1	2.02	0.60
3:M:189:LEU:HB3	3:M:193:ARG:HH11	1.66	0.60
5:O:112:ARG:HB3	5:O:113:TYR:CD1	2.37	0.60
6:P:19:PRO:HG2	6:P:19:PRO:O	2.01	0.60
6:Q:18:SER:O	6:Q:19:PRO:C	2.45	0.60
2:A:310:ILE:HD11	2:A:343:GLU:HA	1.84	0.59
2:A:449:ASN:HD21	2:A:512:ARG:CZ	2.15	0.59
2:A:453:TYR:O	2:A:454:LEU:HD23	2.01	0.59
2:A:711:LEU:CD1	2:A:727:TYR:HE1	2.15	0.59
2:B:197:LYS:CD	2:B:197:LYS:N	2.64	0.59
2:B:375:ARG:NH1	2:B:838:LEU:HD11	2.17	0.59
2:B:483:VAL:O	2:B:483:VAL:HG23	2.01	0.59
2:C:107:LEU:N	2:C:531:PHE:HE1	1.98	0.59
2:C:329:SER:O	2:C:331:LEU:N	2.34	0.59
2:C:574:LEU:O	2:C:576:VAL:N	2.34	0.59
2:C:641:PRO:HG3	2:K:637:PRO:CG	2.32	0.59
2:D:9:GLN:HA	2:D:9:GLN:OE1	2.02	0.59
2:D:417:ASN:N	2:D:417:ASN:ND2	2.50	0.59
2:D:444:SER:HA	2:D:447:TYR:CD1	2.37	0.59
2:D:516:LEU:CD2	2:D:569:SER:HB3	2.32	0.59
2:F:271:ASP:O	2:F:272:THR:HG23	2.01	0.59
2:F:355:ASP:OD1	2:F:357:SER:N	2.30	0.59
2:F:674:TYR:OH	2:F:676:GLY:HA3	2.02	0.59
2:F:769:ARG:NH1	2:F:769:ARG:HB2	2.16	0.59
2:G:506:ASN:HB3	2:G:686:TYR:CZ	2.35	0.59
2:G:563:ASN:OD1	2:G:574:LEU:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:126:PRO:O	2:H:126:PRO:CG	2.48	0.59
2:H:161:GLN:H	2:H:197:LYS:NZ	1.99	0.59
2:H:693:LYS:HZ1	6:Q:28:TRP:CD1	2.19	0.59
2:H:728:ASN:HA	2:H:734:MET:O	2.02	0.59
2:I:96:MET:HB2	2:I:545:LEU:O	2.02	0.59
2:I:103:ILE:HG21	2:I:583:PHE:CE1	2.37	0.59
2:I:160:ILE:H	2:I:170:PRO:CG	2.15	0.59
2:I:405:ILE:O	2:I:407:ALA:N	2.35	0.59
2:I:624:ASN:O	2:I:625:MET:HG2	2.01	0.59
2:I:717:GLU:HB3	2:I:735:THR:HG21	1.84	0.59
2:J:399:THR:HG22	2:J:399:THR:O	2.02	0.59
2:J:801:PHE:HA	2:K:391:PHE:HE2	1.67	0.59
2:J:866:LEU:O	2:J:867:TYR:HB3	2.02	0.59
2:L:291:LEU:HD23	2:L:291:LEU:H	1.66	0.59
3:M:73:LYS:CE	3:M:81:ASN:HB3	2.32	0.59
3:M:150:LYS:HE3	3:M:155:GLY:HA3	1.83	0.59
3:M:291:SER:HB3	3:M:315:VAL:HG23	1.84	0.59
3:M:391:SER:OG	3:M:396:ASN:HB3	2.02	0.59
5:O:89:THR:CG2	5:O:94:ILE:HG13	2.26	0.59
5:O:137:GLU:HA	5:O:137:GLU:OE2	2.02	0.59
5:O:138:ARG:CZ	5:O:138:ARG:HB3	2.31	0.59
7:U:231:GLY:O	7:U:232:TYR:HB2	2.02	0.59
2:A:10:TRP:CZ3	2:B:866:LEU:CG	2.84	0.59
2:A:109:ARG:O	2:A:527:ARG:NH2	2.34	0.59
2:A:905:HIS:CG	2:A:906:ARG:H	2.19	0.59
2:B:194:ALA:C	2:B:196:GLN:N	2.55	0.59
2:B:289:ASP:N	2:B:291:LEU:CD1	2.65	0.59
2:B:435:ILE:HG12	2:C:390:CYS:SG	2.42	0.59
2:B:611:THR:HG21	5:O:26:PRO:CD	2.32	0.59
2:B:905:HIS:N	2:B:905:HIS:ND1	2.50	0.59
2:C:114:LYS:HE3	2:C:298:ASN:C	2.26	0.59
2:C:503:ASP:CG	2:C:836:LYS:HE2	2.23	0.59
2:C:562:VAL:CG2	2:C:579:ALA:CB	2.80	0.59
2:C:732:CYS:O	2:C:835:LYS:HD2	2.02	0.59
2:D:72:ASP:OD1	2:D:74:GLU:HG3	2.02	0.59
2:D:116:TYR:O	2:D:116:TYR:CG	2.43	0.59
2:D:247:PHE:CE2	2:F:403:SER:HA	2.37	0.59
2:D:345:SER:OG	2:D:618:ASP:OD1	2.14	0.59
2:E:74:GLU:OE1	2:E:81:LYS:N	2.31	0.59
2:F:135:TRP:NE1	2:F:287:SER:CA	2.61	0.59
2:F:323:VAL:HG12	2:F:332:ASN:CG	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:735:THR:C	2:F:737:ASP:H	2.10	0.59
2:H:15:ILE:HG12	2:I:896:PHE:HD2	1.67	0.59
2:H:448:SER:HB2	2:I:385:GLU:OE1	2.02	0.59
2:H:655:ARG:NH2	2:H:887:THR:HG21	2.14	0.59
2:I:142:LYS:O	2:I:143:VAL:HB	2.00	0.59
2:I:334:VAL:HG13	2:I:334:VAL:O	2.02	0.59
2:I:365:GLN:O	2:I:366:ALA:HB2	2.02	0.59
2:I:800:GLY:HA2	2:I:812:GLY:C	2.27	0.59
2:J:120:ALA:HB3	2:J:121:TYR:CE1	2.36	0.59
2:J:375:ARG:NE	2:J:838:LEU:HD11	2.17	0.59
2:J:643:ARG:O	2:J:872:HIS:N	2.34	0.59
2:K:242:VAL:O	2:K:242:VAL:CG2	2.44	0.59
2:K:315:TYR:CE2	2:K:538:LYS:HB2	2.37	0.59
2:K:497:TRP:CH2	2:K:836:LYS:HB3	2.37	0.59
2:L:645:TRP:HB3	2:L:648:PHE:HB2	1.84	0.59
3:M:343:TRP:CD1	3:M:356:VAL:HG11	2.37	0.59
3:M:375:TYR:HD1	3:M:402:VAL:HG22	1.67	0.59
6:R:13:LYS:C	6:R:15:GLY:N	2.58	0.59
7:U:33:TRP:CZ3	7:U:41:ILE:HD12	2.37	0.59
2:A:85:THR:O	2:A:85:THR:HG23	2.01	0.59
2:A:215:SER:O	2:A:215:SER:OG	2.14	0.59
2:A:306:ARG:NH2	2:A:566:LEU:O	2.32	0.59
2:A:378:GLU:O	2:A:378:GLU:HG3	2.02	0.59
2:A:389:TYR:OH	2:C:390:CYS:SG	2.48	0.59
2:A:544:ASN:HB2	2:A:616:PHE:CE2	2.37	0.59
2:B:347:GLN:HA	2:B:350:LEU:HD12	1.84	0.59
2:C:96:MET:HE1	2:C:324:LEU:CD2	2.30	0.59
2:C:291:LEU:CD2	2:C:293:GLN:HE21	2.16	0.59
2:C:306:ARG:HD3	2:C:567:GLN:HB2	1.84	0.59
2:C:344:LEU:O	2:C:347:GLN:N	2.33	0.59
2:C:616:PHE:O	2:C:899:VAL:HG12	2.03	0.59
2:D:86:LEU:HD23	2:D:547:LEU:CD2	2.32	0.59
2:D:335:VAL:O	2:D:335:VAL:HG13	2.01	0.59
2:D:386:LEU:HD11	2:F:447:TYR:CD2	2.37	0.59
2:D:474:TYR:O	2:D:474:TYR:CD1	2.55	0.59
2:D:896:PHE:HB3	2:F:15:ILE:HD11	1.84	0.59
2:E:811:GLU:CD	2:E:811:GLU:H	2.06	0.59
2:F:360:PHE:HB3	2:F:365:GLN:CB	2.32	0.59
2:F:387:PRO:HB2	2:F:389:TYR:CE1	2.38	0.59
2:F:632:ASN:O	6:P:10:VAL:HB	2.03	0.59
2:G:228:SER:O	2:G:228:SER:OG	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:244:LEU:HD22	2:G:261:TYR:CE1	2.37	0.59
2:G:289:ASP:O	2:G:291:LEU:N	2.35	0.59
2:G:291:LEU:HD23	2:G:291:LEU:C	2.26	0.59
2:G:811:GLU:OE1	2:G:812:GLY:N	2.27	0.59
2:H:375:ARG:NH1	2:H:507:PRO:HB3	2.18	0.59
2:H:512:ARG:NH2	2:I:383:GLU:OE2	2.26	0.59
2:H:678:VAL:O	2:H:682:ASP:HB3	2.02	0.59
2:I:10:TRP:CG	2:I:15:ILE:HG21	2.36	0.59
2:I:180:GLU:HG2	2:I:180:GLU:O	2.02	0.59
2:I:540:PHE:HA	2:I:543:LYS:HE3	1.84	0.59
2:I:797:ASN:HD22	2:I:817:ALA:CB	2.14	0.59
2:J:224:GLY:CA	2:K:794:PHE:HB3	2.32	0.59
2:J:477:MET:HE2	2:J:570:LEU:HG	1.84	0.59
2:J:499:PRO:HB2	2:J:502:MET:HG3	1.84	0.59
2:J:661:THR:HG23	2:J:661:THR:O	2.02	0.59
2:K:701:SER:HB2	7:T:16:GLN:HE22	1.67	0.59
2:K:916:THR:HG1	2:K:917:PRO:HD3	1.65	0.59
2:L:103:ILE:HD12	2:L:533:ILE:CD1	2.26	0.59
2:L:203:LEU:HG	2:L:265:VAL:CG2	2.32	0.59
2:L:324:LEU:HD13	2:L:554:TYR:CD1	2.38	0.59
2:L:810:ARG:HD2	2:L:810:ARG:C	2.27	0.59
1:3:23:ASN:ND2	1:3:23:ASN:C	2.59	0.59
2:A:109:ARG:HD2	2:A:113:PHE:CD1	2.37	0.59
2:A:128:THR:HG23	2:A:128:THR:O	2.02	0.59
2:A:219:PRO:O	2:A:220:THR:HG23	2.02	0.59
2:A:300:PRO:HG2	2:A:511:HIS:CG	2.38	0.59
2:A:467:LEU:HD11	2:A:479:GLY:HA3	1.83	0.59
2:B:194:ALA:O	2:B:195:ALA:C	2.45	0.59
2:B:279:ASP:O	2:B:290:LEU:HD21	2.02	0.59
2:B:460:ILE:O	2:B:460:ILE:CG2	2.51	0.59
2:B:477:MET:O	2:B:479:GLY:N	2.34	0.59
2:C:127:LYS:HE3	2:C:213:TYR:CE2	2.37	0.59
2:C:603:LEU:O	2:C:603:LEU:CD2	2.50	0.59
2:C:631:SER:CA	2:C:886:PRO:HG3	2.32	0.59
2:C:654:THR:HG22	2:C:655:ARG:N	2.17	0.59
2:C:743:MET:HE1	2:C:749:ILE:CD1	2.32	0.59
2:D:57:THR:HG1	2:E:850:SER:CB	2.13	0.59
2:D:135:TRP:HH2	2:D:291:LEU:HD13	1.64	0.59
2:D:194:ALA:C	2:D:196:GLN:N	2.56	0.59
2:D:403:SER:CB	2:D:413:THR:HG23	2.33	0.59
2:D:531:PHE:HB3	2:D:533:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:729:VAL:HG13	2:D:730:ALA:H	1.67	0.59
2:E:19:ASP:OD1	2:E:20:ALA:N	2.35	0.59
2:E:128:THR:HG22	2:E:128:THR:O	2.01	0.59
2:E:449:ASN:HD21	2:E:512:ARG:CZ	2.15	0.59
2:E:711:LEU:HD21	2:E:727:TYR:CD1	2.37	0.59
2:E:881:ASP:CG	2:E:882:PRO:CD	2.73	0.59
2:E:889:LEU:HD21	2:E:891:VAL:HG23	1.84	0.59
2:E:902:HIS:HE1	2:E:904:PRO:HB3	1.68	0.59
2:F:253:PRO:HB3	2:F:255:GLU:HG3	1.85	0.59
2:G:256:PRO:CB	2:I:412:TRP:CZ3	2.85	0.59
2:G:351:ASP:C	2:G:353:LEU:H	2.10	0.59
2:G:394:GLY:C	2:G:396:SER:H	2.10	0.59
2:G:534:GLN:NE2	2:H:729:VAL:O	2.35	0.59
2:G:756:VAL:HG12	2:G:768:PHE:CE2	2.36	0.59
2:H:96:MET:O	2:H:99:THR:OG1	2.18	0.59
2:H:223:LYS:O	2:I:794:PHE:HB3	2.02	0.59
2:H:377:ILE:HD12	2:H:446:LEU:HD11	1.83	0.59
2:H:443:ARG:NE	2:I:386:LEU:HD11	2.16	0.59
2:I:310:ILE:HG23	2:I:343:GLU:CG	2.32	0.59
2:I:335:VAL:H	2:I:913:TYR:HE2	1.51	0.59
2:I:379:ASN:ND2	2:I:493:ILE:HA	2.17	0.59
2:J:155:ASN:HB2	2:J:158:ASN:HB2	1.83	0.59
2:J:418:TYR:O	2:J:421:ARG:N	2.25	0.59
2:J:546:LEU:O	2:J:546:LEU:HD23	2.02	0.59
2:J:658:THR:O	2:J:661:THR:HG22	2.02	0.59
2:J:788:GLN:HE22	2:L:221:ASN:C	2.09	0.59
2:J:858:LEU:HD23	2:J:863:GLN:HE21	1.67	0.59
2:K:9:GLN:HE22	7:U:16:GLN:HG3	1.67	0.59
2:K:402:TYR:CE2	2:L:145:GLY:HA3	2.35	0.59
2:K:463:ASP:OD1	2:K:464:ASN:N	2.35	0.59
2:K:874:LEU:HD23	2:K:875:ASP:N	2.18	0.59
2:L:645:TRP:CZ3	2:L:872:HIS:HB2	2.37	0.59
2:L:678:VAL:HB	2:L:681:LEU:HD21	1.83	0.59
2:L:747:TYR:OH	2:L:762:ASP:OD2	2.20	0.59
3:M:132:ILE:CG2	3:M:139:ASN:CB	2.80	0.59
4:N:187:LEU:HD12	4:N:187:LEU:C	2.27	0.59
2:A:13:MET:O	2:A:14:HIS:C	2.42	0.59
2:A:263:GLU:HB2	2:A:265:VAL:HG13	1.85	0.59
2:A:593:PHE:HA	2:B:751:TYR:CD2	2.37	0.59
2:A:625:MET:HG2	2:A:893:PHE:CE1	2.38	0.59
2:B:209:MET:O	2:B:209:MET:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:246:PHE:CD1	2:B:246:PHE:O	2.55	0.59
2:B:636:VAL:HG23	2:B:878:PHE:HB2	1.84	0.59
2:C:288:ALA:O	2:C:290:LEU:N	2.36	0.59
2:D:13:MET:CE	2:E:914:LEU:CB	2.74	0.59
2:D:278:PRO:HD3	2:D:292:THR:O	2.02	0.59
2:D:279:ASP:CB	2:D:464:ASN:HD21	2.15	0.59
2:D:416:ASP:CG	2:E:245:GLN:HE22	2.11	0.59
2:E:783:THR:O	2:E:785:LYS:N	2.35	0.59
2:F:105:GLY:C	2:F:106:VAL:HG23	2.28	0.59
2:F:360:PHE:HE1	2:F:362:MET:HB2	1.66	0.59
2:F:648:PHE:CE1	2:F:893:PHE:HD1	2.20	0.59
2:F:654:THR:HA	2:F:688:ASN:ND2	2.17	0.59
2:F:703:SER:C	2:F:705:PRO:HD2	2.26	0.59
2:G:142:LYS:NZ	2:I:425:ILE:HG13	2.18	0.59
2:G:379:ASN:HB3	2:G:494:GLY:H	1.67	0.59
2:G:390:CYS:CA	2:I:435:ILE:HD11	2.32	0.59
2:G:715:GLU:CA	2:G:715:GLU:OE1	2.47	0.59
2:I:302:TYR:HE2	2:I:517:ARG:HG3	1.68	0.59
2:I:310:ILE:HG23	2:I:343:GLU:HG2	1.84	0.59
2:I:334:VAL:HA	2:I:913:TYR:OH	2.03	0.59
2:I:484:PRO:HD2	2:I:805:MET:O	2.03	0.59
2:J:425:ILE:HG12	2:L:813:GLN:HE22	1.66	0.59
2:J:439:ALA:C	2:J:441:LEU:H	2.09	0.59
2:J:559:ARG:HG3	2:J:559:ARG:NH1	2.14	0.59
2:K:316:ASN:OD1	2:K:342:THR:HG22	2.03	0.59
2:K:652:SER:O	2:K:892:LEU:N	2.35	0.59
2:L:172:TYR:O	2:L:174:ASP:N	2.34	0.59
2:A:52:PRO:O	2:A:52:PRO:CD	2.47	0.59
2:A:109:ARG:HG3	2:A:526:GLY:O	2.02	0.59
2:A:487:LEU:HD21	2:A:499:PRO:CG	2.33	0.59
2:A:620:LEU:O	2:A:620:LEU:HG	2.03	0.59
2:B:540:PHE:CZ	2:B:899:VAL:HG21	2.35	0.59
2:B:648:PHE:CE2	2:B:651:TRP:CE3	2.90	0.59
2:B:906:ARG:HG3	5:O:104:ASN:OD1	2.03	0.59
2:D:257:LYS:O	2:D:257:LYS:CD	2.50	0.59
2:D:271:ASP:C	2:D:298:ASN:OD1	2.46	0.59
2:D:306:ARG:O	2:D:309:PHE:N	2.34	0.59
2:D:729:VAL:HG13	2:D:730:ALA:N	2.17	0.59
2:E:374:VAL:CG2	2:E:510:HIS:HE1	2.16	0.59
2:E:390:CYS:HB2	2:E:433:MET:O	2.02	0.59
2:E:427:SER:C	2:F:192:VAL:HG11	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:626:LEU:HD21	2:E:890:TYR:CD2	2.37	0.59
2:E:649:ARG:HH11	2:E:649:ARG:HG2	1.66	0.59
2:E:804:TYR:O	2:E:804:TYR:CD2	2.54	0.59
2:E:893:PHE:CD2	2:E:918:PHE:CE2	2.91	0.59
2:F:186:THR:O	2:F:190:SER:N	2.36	0.59
2:F:462:PRO:HG2	2:F:465:ILE:CG1	2.32	0.59
2:G:496:ARG:NH1	2:I:518:TYR:HE1	2.01	0.59
2:H:69:VAL:HG23	2:H:70:PRO:HD2	1.82	0.59
2:H:88:VAL:CG2	2:H:549:PRO:HA	2.27	0.59
2:H:242:VAL:CG2	2:H:263:GLU:HG3	2.30	0.59
2:H:335:VAL:HG11	7:U:107:GLN:HE21	1.67	0.59
2:H:401:THR:N	2:H:424:GLU:HG3	2.16	0.59
2:H:625:MET:HG3	2:H:893:PHE:CE1	2.38	0.59
2:H:662:PRO:HB3	2:H:672:PHE:CE2	2.37	0.59
2:H:922:ASN:ND2	2:H:924:THR:HG22	2.18	0.59
2:I:376:ILE:HD11	2:I:772:GLN:CB	2.32	0.59
2:J:163:GLY:CA	2:J:168:ASN:HB2	2.32	0.59
2:J:188:TRP:CA	2:K:809:MET:HE1	2.33	0.59
2:J:242:VAL:HA	2:J:262:ALA:O	2.02	0.59
2:J:254:ASN:C	2:J:255:GLU:HG3	2.27	0.59
2:J:612:ASN:HD21	2:L:25:SER:CB	2.13	0.59
2:K:315:TYR:CE2	2:K:538:LYS:HE2	2.38	0.59
2:K:492:ASN:ND2	2:K:497:TRP:HB3	2.17	0.59
2:K:569:SER:C	2:K:570:LEU:HD23	2.27	0.59
2:K:779:VAL:CG1	2:K:829:VAL:HG11	2.31	0.59
2:L:636:VAL:CG1	2:L:878:PHE:HB2	2.32	0.59
7:T:66:ARG:NH1	7:T:71:PRO:HD3	2.17	0.59
7:T:101:MET:HG2	7:T:107:GLN:OE1	2.02	0.59
7:U:16:GLN:C	7:U:17:MET:HE2	2.27	0.59
7:U:83:ASN:O	7:U:83:ASN:OD1	2.21	0.59
7:U:165:ARG:HE	7:U:166:SER:N	2.00	0.59
2:A:54:HIS:O	2:A:55:ASP:HB2	2.03	0.59
2:A:660:GLU:HB3	2:A:674:TYR:CD2	2.37	0.59
2:A:770:ASN:HD22	2:A:841:ARG:HB3	1.67	0.59
2:A:812:GLY:HA3	2:C:181:PRO:CG	2.33	0.59
2:B:35:THR:HG23	2:B:39:PHE:HB3	1.81	0.59
2:B:175:LYS:CG	2:B:178:GLN:HB3	2.33	0.59
2:B:549:PRO:HD2	2:B:604:GLU:HG3	1.83	0.59
2:B:643:ARG:HG2	2:B:643:ARG:NH1	2.16	0.59
2:B:645:TRP:CZ3	2:B:648:PHE:CD2	2.90	0.59
2:B:662:PRO:O	2:B:663:SER:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:338:GLN:HE21	2:C:664:LEU:HB2	1.68	0.59
2:C:810:ARG:O	2:C:810:ARG:HG3	2.01	0.59
2:C:920:ALA:HA	2:K:714:ASN:HD21	1.67	0.59
2:D:28:LEU:HA	2:E:606:MET:CE	2.32	0.59
2:D:390:CYS:HA	2:F:435:ILE:CD1	2.31	0.59
2:D:544:ASN:O	2:F:44:LYS:HE3	2.02	0.59
2:D:581:VAL:CG1	2:D:583:PHE:CE1	2.86	0.59
2:D:839:CYS:SG	2:D:842:THR:HG21	2.43	0.59
2:E:189:ASN:HA	2:F:128:THR:HG21	1.85	0.59
2:E:321:MET:HE3	2:E:332:ASN:HD21	1.68	0.59
2:E:374:VAL:HG22	2:E:374:VAL:O	2.01	0.59
2:E:734:MET:HG3	2:E:735:THR:N	2.17	0.59
2:E:802:VAL:HG13	2:E:803:GLY:H	1.66	0.59
2:F:74:GLU:OE1	2:G:67:ARG:NH2	2.34	0.59
2:F:249:LEU:N	2:F:250:PRO:CD	2.65	0.59
2:F:650:GLY:O	2:F:894:GLU:HB2	2.02	0.59
2:F:651:TRP:CZ2	2:F:696:ILE:HD12	2.38	0.59
2:G:255:GLU:HG3	2:G:256:PRO:N	2.18	0.59
2:G:255:GLU:HB2	2:G:256:PRO:HD3	1.85	0.59
2:H:111:PRO:CD	2:H:527:ARG:HH22	2.15	0.59
2:H:405:ILE:HG22	2:I:246:PHE:O	2.03	0.59
2:I:718:ILE:O	2:I:735:THR:HG23	2.02	0.59
2:I:901:ILE:HD13	2:I:911:ALA:HB2	1.85	0.59
2:J:284:THR:HG23	2:J:287:SER:HB2	1.84	0.59
2:J:803:GLY:HA2	2:J:809:MET:O	2.03	0.59
2:K:356:ARG:HH22	2:K:367:VAL:HA	1.68	0.59
2:K:412:TRP:CE3	2:K:413:THR:OG1	2.55	0.59
2:L:84:PHE:HE2	2:L:101:PHE:CE2	2.21	0.59
3:M:222:VAL:HG22	3:M:282:LEU:HA	1.85	0.59
3:M:354:LYS:HG2	3:M:354:LYS:O	2.01	0.59
5:O:18:MET:HA	5:O:21:ALA:HB3	1.82	0.59
6:P:34:ASN:ND2	6:R:15:GLY:O	2.36	0.59
7:T:44:VAL:CA	7:T:47:ILE:HG22	2.33	0.59
1:4:15:SER:O	1:4:16:ARG:HB2	2.03	0.59
1:6:11:PRO:HD2	2:J:617:ASN:HD21	1.66	0.59
1:8:36:SER:OG	2:B:843:MET:HE1	2.03	0.59
2:A:20:ALA:HA	2:A:23:TYR:CE1	2.38	0.59
2:A:35:THR:HG22	2:A:38:TYR:OH	2.03	0.59
2:A:215:SER:O	2:B:817:ALA:N	2.36	0.59
2:A:582:ARG:HB3	2:A:582:ARG:HH11	1.67	0.59
2:A:702:VAL:HG11	2:E:921:GLY:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:645:TRP:HZ3	2:B:648:PHE:CE2	2.20	0.59
2:C:70:PRO:HG2	2:C:73:ARG:HH21	1.68	0.59
2:C:213:TYR:O	2:C:215:SER:N	2.36	0.59
2:C:226:GLN:HG3	2:C:265:VAL:HG11	1.85	0.59
2:C:450:VAL:O	2:C:451:ALA:C	2.46	0.59
2:C:507:PRO:C	2:C:508:PHE:HD1	2.11	0.59
2:C:750:GLY:HA2	2:C:754:PHE:CD1	2.37	0.59
2:D:201:ARG:HD3	2:E:815:TYR:CZ	2.38	0.59
2:D:302:TYR:O	2:D:516:LEU:HD11	2.03	0.59
2:D:432:ALA:HB2	2:F:810:ARG:NE	2.18	0.59
2:D:447:TYR:CE1	2:E:386:LEU:HD22	2.38	0.59
2:D:504:ASN:HD22	2:D:883:MET:HE1	1.67	0.59
2:E:744:LEU:HD13	2:E:750:GLY:HA3	1.83	0.59
2:E:811:GLU:OE1	2:E:811:GLU:CA	2.50	0.59
2:E:866:LEU:HG	2:E:867:TYR:CE1	2.37	0.59
2:F:392:PRO:O	2:F:392:PRO:CG	2.46	0.59
2:F:919:SER:N	4:N:188:GLU:OE2	2.36	0.59
2:G:135:TRP:HB2	2:G:287:SER:C	2.27	0.59
2:G:140:LYS:HE2	2:I:419:ALA:CA	2.33	0.59
2:G:362:MET:O	2:G:363:TRP:C	2.39	0.59
2:G:636:VAL:CG1	2:G:889:LEU:HD13	2.33	0.59
2:G:709:ARG:HH11	2:G:709:ARG:HG3	1.68	0.59
2:H:184:GLY:HA3	2:I:811:GLU:HG2	1.83	0.59
2:H:187:GLN:CB	2:I:809:MET:SD	2.91	0.59
2:I:174:ASP:O	2:I:175:LYS:HB3	2.01	0.59
2:I:796:HIS:NE2	2:I:818:ASN:OD1	2.35	0.59
2:J:61:SER:HA	2:K:707:ASN:HB3	1.84	0.59
2:J:362:MET:HG2	2:J:363:TRP:CE3	2.37	0.59
2:K:124:LEU:H	2:L:798:ASN:ND2	2.00	0.59
2:K:299:ARG:NH2	2:K:453:TYR:HE1	2.00	0.59
2:K:376:ILE:HG23	2:K:774:MET:HE1	1.84	0.59
2:L:218:LYS:O	2:L:220:THR:N	2.36	0.59
2:L:681:LEU:HD23	2:L:681:LEU:H	1.68	0.59
2:L:717:GLU:HB2	2:L:735:THR:OG1	2.01	0.59
3:M:374:VAL:HG22	3:M:405:LEU:HD21	1.83	0.59
3:M:468:LEU:HD21	3:M:472:ILE:CG1	2.32	0.59
5:O:151:LEU:HD22	5:O:189:TYR:CE2	2.27	0.59
5:O:245:LEU:CD1	5:O:273:ILE:HD11	2.33	0.59
6:S:43:ARG:HB2	6:S:44:PRO:CD	2.24	0.59
2:A:496:ARG:HB3	2:C:521:MET:CE	2.32	0.59
2:A:878:PHE:CE2	2:A:889:LEU:HD21	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:TYR:CE1	2:C:819:TYR:CD2	2.91	0.59
2:B:150:ILE:O	2:B:150:ILE:CG2	2.47	0.59
2:B:182:GLN:CD	2:B:185:GLN:HA	2.28	0.59
2:B:508:PHE:CE1	2:B:684:THR:HB	2.38	0.59
2:B:662:PRO:HA	2:B:672:PHE:CD1	2.37	0.59
2:C:228:SER:OG	2:C:232:ASN:ND2	2.36	0.59
2:C:449:ASN:OD1	2:C:449:ASN:N	2.34	0.59
2:C:474:TYR:HB2	2:C:572:ASN:HD22	1.68	0.59
2:C:600:ALA:C	2:C:602:THR:H	2.10	0.59
2:D:112:SER:O	2:D:112:SER:OG	2.05	0.59
2:D:784:TYR:O	2:D:787:TYR:N	2.33	0.59
2:D:808:THR:HG22	2:D:809:MET:N	2.17	0.59
2:E:298:ASN:HB3	2:E:478:ASN:HD22	1.67	0.59
2:F:84:PHE:CD2	2:F:588:LEU:HB2	2.38	0.59
2:F:130:PRO:HB3	2:F:291:LEU:HD11	1.84	0.59
2:F:451:ALA:O	2:F:454:LEU:HG	2.02	0.59
2:F:780:ASN:HB2	2:F:832:LEU:CD2	2.33	0.59
2:G:178:GLN:H	2:G:179:PRO:CD	2.16	0.59
2:G:390:CYS:SG	2:G:390:CYS:O	2.60	0.59
2:G:511:HIS:CD2	2:G:512:ARG:HG2	2.37	0.59
2:G:654:THR:HG23	2:G:688:ASN:HD22	1.68	0.59
2:H:182:GLN:NE2	2:H:182:GLN:H	2.00	0.59
2:H:187:GLN:O	2:H:188:TRP:C	2.45	0.59
2:H:412:TRP:CD1	2:I:141:ILE:HB	2.38	0.59
2:H:780:ASN:OD1	2:H:832:LEU:HD23	2.02	0.59
2:I:228:SER:C	2:I:229:LEU:HD23	2.27	0.59
2:J:89:GLY:O	2:J:92:ARG:HG2	2.03	0.59
2:J:100:TYR:HB2	2:J:363:TRP:CH2	2.38	0.59
2:J:361:SER:OG	2:K:730:ALA:HB3	2.03	0.59
2:J:384:ASP:OD1	2:J:438:ALA:CB	2.49	0.59
2:J:441:LEU:O	2:J:441:LEU:HG	2.03	0.59
2:K:565:ILE:O	2:K:566:LEU:HD23	2.02	0.59
2:K:839:CYS:O	2:K:842:THR:OG1	2.21	0.59
2:L:186:THR:O	2:L:186:THR:OG1	2.17	0.59
2:L:729:VAL:CG1	2:L:736:LYS:HG3	2.33	0.59
2:L:866:LEU:CD2	7:U:233:ASP:HB2	2.31	0.59
3:M:73:LYS:CE	3:M:81:ASN:OD1	2.47	0.59
5:O:191:SER:O	5:O:191:SER:OG	2.14	0.59
7:T:206:PRO:O	7:T:208:SER:N	2.36	0.59
1:8:25:ILE:C	1:8:27:THR:N	2.60	0.59
2:A:638:ILE:CG1	2:A:876:MET:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:706:GLY:O	2:A:707:ASN:C	2.46	0.59
2:B:201:ARG:HD3	2:B:263:GLU:HG3	1.85	0.59
2:B:289:ASP:C	2:B:291:LEU:N	2.59	0.59
2:B:351:ASP:O	2:B:352:ALA:C	2.40	0.59
2:B:477:MET:CG	2:B:570:LEU:HD21	2.31	0.59
2:B:725:GLU:N	2:B:725:GLU:OE2	2.36	0.59
2:C:261:TYR:HD1	2:C:261:TYR:H	1.51	0.59
2:C:356:ARG:NH2	2:C:356:ARG:CB	2.66	0.59
2:D:349:MET:HA	2:D:619:TYR:CD2	2.37	0.59
2:D:424:GLU:N	2:E:144:ARG:HG3	2.18	0.59
2:E:67:ARG:HH22	2:J:74:GLU:CD	2.10	0.59
2:E:113:PHE:CE1	2:E:115:PRO:HD3	2.37	0.59
2:E:275:VAL:HG11	2:E:807:PRO:CD	2.33	0.59
2:E:462:PRO:HD2	2:E:479:GLY:O	2.02	0.59
2:F:739:PHE:O	2:F:741:ILE:N	2.36	0.59
2:G:274:LEU:HD23	2:G:294:GLN:O	2.02	0.59
2:G:511:HIS:O	2:G:517:ARG:NH1	2.36	0.59
2:G:717:GLU:C	2:G:738:TRP:HD1	2.09	0.59
2:H:181:PRO:HA	2:I:804:TYR:CD2	2.37	0.59
2:H:708:ASP:O	2:H:708:ASP:OD1	2.20	0.59
2:H:743:MET:CG	2:H:749:ILE:HD11	2.33	0.59
2:I:207:THR:HG21	2:I:265:VAL:HG22	1.85	0.59
2:I:405:ILE:C	2:I:407:ALA:H	2.10	0.59
2:I:408:ASN:HA	2:I:412:TRP:HA	1.83	0.59
2:I:840:ASP:O	2:I:842:THR:HG22	2.03	0.59
2:L:127:LYS:NZ	2:L:213:TYR:CE2	2.71	0.59
3:M:139:ASN:OD1	3:M:166:LEU:HB2	2.03	0.59
2:A:497:TRP:CH2	2:A:834:GLN:HB2	2.38	0.58
2:B:184:GLY:O	2:B:186:THR:N	2.30	0.58
2:B:230:ILE:N	2:B:239:THR:O	2.29	0.58
2:B:887:THR:C	2:B:888:LEU:HD12	2.28	0.58
2:C:28:LEU:O	2:C:28:LEU:CG	2.40	0.58
2:C:272:THR:N	2:C:298:ASN:OD1	2.33	0.58
2:C:734:MET:SD	2:C:738:TRP:HD1	2.26	0.58
2:D:149:PHE:HB2	2:D:199:ALA:HB3	1.83	0.58
2:D:205:ASP:HA	2:D:285:ILE:HD12	1.85	0.58
2:D:370:TYR:CD2	2:D:508:PHE:HE1	2.20	0.58
2:D:729:VAL:H	2:D:736:LYS:HD3	1.68	0.58
2:E:447:TYR:CB	2:E:451:ALA:HB3	2.32	0.58
2:E:632:ASN:OD1	2:E:884:ASP:HA	2.03	0.58
2:F:319:GLY:HA2	2:H:713:PRO:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:851:ASN:OD1	2:F:853:MET:HB2	2.02	0.58
2:G:307:ASP:OD1	2:G:307:ASP:C	2.45	0.58
2:G:352:ALA:O	2:G:353:LEU:HD23	2.03	0.58
2:G:402:TYR:HE2	2:G:425:ILE:HG22	1.68	0.58
2:G:437:LEU:O	2:G:439:ALA:N	2.36	0.58
2:G:483:VAL:HG21	2:G:792:LEU:CD2	2.33	0.58
2:G:851:ASN:O	2:G:852:PHE:HB2	2.02	0.58
2:H:151:GLY:HA3	2:H:197:LYS:CG	2.33	0.58
2:H:178:GLN:CD	2:H:178:GLN:H	2.10	0.58
2:I:379:ASN:HD21	2:I:493:ILE:HA	1.68	0.58
2:I:642:SER:HA	2:I:872:HIS:O	2.02	0.58
2:J:105:GLY:HA3	2:J:582:ARG:O	2.03	0.58
2:J:167:THR:O	2:J:167:THR:CG2	2.51	0.58
2:J:360:PHE:HD1	2:J:361:SER:H	1.50	0.58
2:K:9:GLN:N	2:K:9:GLN:OE1	2.34	0.58
2:K:57:THR:HG21	2:L:850:SER:OG	2.02	0.58
2:K:243:ASN:ND2	2:K:243:ASN:N	2.49	0.58
2:K:452:LEU:HD23	2:K:482:ALA:CB	2.32	0.58
2:K:680:TYR:CD1	2:K:890:TYR:HE2	2.21	0.58
2:K:693:LYS:CG	2:K:879:GLU:HB3	2.30	0.58
2:L:172:TYR:O	2:L:172:TYR:CG	2.56	0.58
3:M:124:ILE:HG23	3:M:460:LEU:HD23	1.85	0.58
3:M:270:MET:O	3:M:273:ASP:HB2	2.03	0.58
5:O:138:ARG:HB3	5:O:138:ARG:NH1	2.18	0.58
5:O:183:VAL:O	5:O:187:GLU:HG2	2.03	0.58
2:A:64:LEU:O	2:A:591:ASN:HA	2.03	0.58
2:A:213:TYR:CG	2:A:213:TYR:O	2.50	0.58
2:A:697:MET:CE	2:A:875:ASP:HB2	2.32	0.58
2:B:305:PHE:HD2	2:B:309:PHE:CE1	2.21	0.58
2:B:672:PHE:O	2:B:672:PHE:CG	2.49	0.58
2:B:790:VAL:HG12	2:B:794:PHE:HB2	1.86	0.58
2:C:100:TYR:CD1	2:C:100:TYR:N	2.56	0.58
2:C:289:ASP:OD1	2:C:289:ASP:N	2.35	0.58
2:C:331:LEU:CD2	2:J:63:ARG:HD2	2.33	0.58
2:C:442:TRP:CE2	2:C:446:LEU:HD11	2.37	0.58
2:C:636:VAL:O	2:C:636:VAL:HG13	2.03	0.58
2:C:883:MET:CE	2:C:887:THR:HB	2.33	0.58
2:D:185:GLN:HE21	2:E:292:THR:CG2	2.17	0.58
2:D:336:ASP:HB2	2:D:539:PHE:CE2	2.38	0.58
2:D:415:ASP:HB3	2:E:141:ILE:HD11	1.85	0.58
2:D:437:LEU:HD23	2:F:437:LEU:CD1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:539:PHE:HD1	2:D:541:ALA:H	1.50	0.58
2:D:777:GLN:HB3	2:D:823:LEU:HD21	1.85	0.58
2:E:96:MET:HE3	2:E:99:THR:CG2	2.33	0.58
2:E:549:PRO:HD2	2:E:604:GLU:HG3	1.85	0.58
2:E:885:GLU:CB	2:E:886:PRO:CD	2.80	0.58
2:E:901:ILE:HA	2:E:911:ALA:HB2	1.84	0.58
2:F:20:ALA:HB2	2:F:46:ARG:O	2.02	0.58
2:F:176:THR:C	2:F:178:GLN:H	2.11	0.58
2:F:203:LEU:CD2	2:F:267:ILE:HD11	2.32	0.58
2:F:599:THR:O	2:F:603:LEU:N	2.35	0.58
2:F:701:SER:OG	2:J:919:SER:O	2.17	0.58
2:F:791:THR:HB	2:F:793:PRO:CD	2.33	0.58
2:G:209:MET:HE1	2:G:287:SER:O	2.02	0.58
2:G:654:THR:HG22	2:G:655:ARG:N	2.18	0.58
2:H:83:ARG:HA	2:H:555:GLU:CB	2.33	0.58
2:H:121:TYR:C	2:H:123:SER:N	2.56	0.58
2:I:333:ALA:O	2:I:913:TYR:OH	2.20	0.58
2:I:545:LEU:HD23	2:I:546:LEU:N	2.18	0.58
2:J:173:ALA:HB1	2:J:222:GLU:CB	2.33	0.58
2:J:513:ASN:O	2:J:517:ARG:HG3	2.03	0.58
2:J:868:ALA:O	2:J:869:ASN:HB2	2.03	0.58
2:K:9:GLN:NE2	7:U:16:GLN:O	2.35	0.58
2:K:29:VAL:O	2:K:33:ARG:HG3	2.02	0.58
2:K:309:PHE:CE2	2:K:364:ASN:HB2	2.38	0.58
2:K:351:ASP:OD1	2:K:356:ARG:HB2	2.03	0.58
2:K:388:ASN:ND2	2:K:437:LEU:HB2	2.17	0.58
2:K:819:TYR:O	2:K:821:TYR:N	2.37	0.58
2:L:84:PHE:HE2	2:L:101:PHE:HE2	1.50	0.58
2:L:178:GLN:NE2	2:L:180:GLU:HB3	2.18	0.58
2:L:470:ASN:OD1	2:L:472:ASN:N	2.22	0.58
2:L:749:ILE:HG23	2:L:755:TYR:CE1	2.38	0.58
6:S:31:VAL:O	6:S:31:VAL:HG22	2.02	0.58
7:T:101:MET:HG2	7:T:107:GLN:HB3	1.85	0.58
2:A:813:GLN:NE2	2:C:147:ALA:CA	2.66	0.58
2:A:848:PHE:HE1	2:A:861:LEU:HB3	1.69	0.58
2:B:447:TYR:O	2:B:448:SER:C	2.45	0.58
2:B:470:ASN:O	2:B:473:THR:N	2.36	0.58
2:B:651:TRP:H	2:B:651:TRP:HE3	1.52	0.58
2:B:848:PHE:O	2:B:848:PHE:CD2	2.57	0.58
2:B:895:VAL:CG2	2:B:917:PRO:HD3	2.30	0.58
2:C:192:VAL:O	2:C:193:GLY:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:752:GLN:HG2	2:C:752:GLN:O	2.03	0.58
2:C:851:ASN:OD1	2:C:853:MET:HB3	2.03	0.58
2:C:916:THR:OG1	2:C:917:PRO:CD	2.46	0.58
2:D:824:ILE:HD12	2:F:116:TYR:CE2	2.38	0.58
2:E:67:ARG:NH2	2:J:74:GLU:OE1	2.29	0.58
2:E:72:ASP:CB	2:E:83:ARG:HB3	2.34	0.58
2:E:148:PRO:HD3	2:F:813:GLN:HE21	1.68	0.58
2:E:189:ASN:HA	2:F:128:THR:CG2	2.34	0.58
2:E:640:ILE:HG22	2:E:874:LEU:HB3	1.84	0.58
2:F:116:TYR:CD1	2:F:116:TYR:C	2.81	0.58
2:F:323:VAL:HG22	2:F:555:GLU:HG2	1.83	0.58
2:F:748:ASN:OD1	2:F:853:MET:HG2	2.02	0.58
2:F:861:LEU:HD12	2:F:861:LEU:O	2.03	0.58
2:G:604:GLU:O	2:G:608:ARG:HG2	2.03	0.58
2:H:521:MET:HE1	2:I:494:GLY:C	2.28	0.58
2:H:680:TYR:HD1	2:H:890:TYR:HE2	1.50	0.58
2:H:779:VAL:CG2	2:H:821:TYR:HB2	2.29	0.58
2:I:114:LYS:NZ	2:I:298:ASN:HB2	2.17	0.58
2:I:133:CYS:SG	2:I:209:MET:SD	3.01	0.58
2:I:171:ILE:HG13	2:I:172:TYR:O	2.03	0.58
2:I:281:ALA:O	2:I:282:GLN:HB2	2.03	0.58
2:I:649:ARG:HD2	2:I:896:PHE:HE1	1.67	0.58
2:I:746:HIS:ND1	2:I:767:PHE:HB2	2.17	0.58
2:I:774:MET:CE	2:I:838:LEU:HD12	2.33	0.58
2:J:60:ARG:NH1	2:J:60:ARG:HB2	2.19	0.58
2:J:306:ARG:HD2	2:J:310:ILE:CG2	2.33	0.58
2:J:706:GLY:O	2:J:708:ASP:N	2.35	0.58
2:K:246:PHE:HA	2:K:259:VAL:CG2	2.32	0.58
2:K:389:TYR:HB2	2:K:391:PHE:HE1	1.68	0.58
2:K:642:SER:HA	2:K:873:ALA:HA	1.84	0.58
2:K:750:GLY:HA2	2:K:754:PHE:HE1	1.68	0.58
2:L:224:GLY:C	2:L:226:GLN:N	2.59	0.58
2:L:377:ILE:O	2:L:377:ILE:HG13	2.02	0.58
2:L:622:ALA:HB2	2:L:892:LEU:HD21	1.85	0.58
3:M:48:GLU:HG3	3:M:54:ARG:HD3	1.85	0.58
3:M:418:VAL:CG2	3:M:447:ALA:H	2.15	0.58
2:A:99:THR:HA	2:A:589:TYR:O	2.03	0.58
2:A:316:ASN:CG	2:A:342:THR:HG22	2.28	0.58
2:A:648:PHE:CD1	2:A:649:ARG:N	2.71	0.58
2:B:78:TYR:HA	2:B:560:LYS:HB2	1.85	0.58
2:B:313:MET:O	2:B:314:TYR:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:562:VAL:HG22	2:B:566:LEU:HD12	1.84	0.58
2:C:99:THR:O	2:C:99:THR:HG23	2.02	0.58
2:C:109:ARG:HG3	2:C:527:ARG:HA	1.85	0.58
2:C:340:ARG:O	2:C:342:THR:N	2.36	0.58
2:D:481:VAL:HB	2:D:807:PRO:CD	2.33	0.58
2:D:704:TRP:CH2	2:D:861:LEU:HD12	2.38	0.58
2:D:823:LEU:HD11	2:F:526:GLY:HA2	1.84	0.58
2:D:895:VAL:HB	2:D:917:PRO:HD2	1.85	0.58
2:E:299:ARG:NH1	2:E:570:LEU:HD23	2.18	0.58
2:E:403:SER:OG	2:F:246:PHE:HA	2.02	0.58
2:E:629:ILE:HB	2:E:887:THR:O	2.03	0.58
2:E:654:THR:HG22	2:E:655:ARG:N	2.17	0.58
2:E:712:THR:O	2:E:712:THR:HG23	2.03	0.58
2:F:73:ARG:HH11	2:F:73:ARG:CB	2.16	0.58
2:F:350:LEU:O	2:F:356:ARG:HD3	2.02	0.58
2:G:299:ARG:CZ	2:G:299:ARG:CB	2.78	0.58
2:G:323:VAL:CG2	2:G:324:LEU:H	2.11	0.58
2:G:545:LEU:HD12	2:G:614:GLN:OE1	2.03	0.58
2:G:794:PHE:CB	2:I:224:GLY:H	2.16	0.58
2:G:855:MET:HB3	2:I:51:ALA:CB	2.33	0.58
2:H:174:ASP:C	2:H:176:THR:N	2.58	0.58
2:H:177:TYR:CE1	2:H:199:ALA:HB1	2.39	0.58
2:H:527:ARG:HD2	2:H:528:TYR:CZ	2.39	0.58
2:H:562:VAL:HG22	2:H:566:LEU:HD13	1.85	0.58
2:J:65:THR:HG23	2:K:711:LEU:CD1	2.32	0.58
2:J:246:PHE:CD1	2:J:246:PHE:N	2.71	0.58
2:J:382:VAL:HG11	2:J:439:ALA:CA	2.32	0.58
2:J:812:GLY:HA3	2:L:181:PRO:HD2	1.85	0.58
2:L:114:LYS:HD2	2:L:298:ASN:HB2	1.85	0.58
2:L:351:ASP:OD2	2:L:765:TYR:HB2	2.03	0.58
2:L:539:PHE:O	2:L:543:LYS:N	2.36	0.58
3:M:465:THR:CG2	3:M:501:LYS:NZ	2.66	0.58
2:A:80:TYR:CB	2:A:558:PHE:HB2	2.26	0.58
2:A:329:SER:O	2:A:330:GLN:C	2.46	0.58
2:A:376:ILE:HG21	2:A:496:ARG:NH2	2.18	0.58
2:A:890:TYR:HE2	2:A:892:LEU:HD21	1.68	0.58
2:B:121:TYR:CD2	2:B:216:TYR:HB2	2.37	0.58
2:B:296:ALA:CB	2:B:297:PRO:HD3	2.27	0.58
2:C:177:TYR:O	2:C:177:TYR:CD2	2.56	0.58
2:C:573:ASP:OD2	2:C:576:VAL:HG23	2.03	0.58
2:C:729:VAL:O	2:C:730:ALA:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:796:HIS:O	2:C:796:HIS:ND1	2.36	0.58
2:C:799:SER:CB	2:C:814:ALA:HA	2.34	0.58
2:C:816:PRO:O	2:C:817:ALA:HB2	2.03	0.58
2:D:144:ARG:O	2:D:144:ARG:CG	2.48	0.58
2:D:190:SER:OG	2:D:191:GLU:N	2.34	0.58
2:D:246:PHE:CG	2:D:259:VAL:HG22	2.38	0.58
2:D:898:VAL:HG13	2:F:13:MET:SD	2.43	0.58
2:E:136:LYS:HG2	2:E:137:ASP:N	2.19	0.58
2:E:615:SER:HA	2:E:899:VAL:O	2.04	0.58
2:E:710:LEU:HD12	2:E:711:LEU:H	1.67	0.58
2:F:384:ASP:OD1	2:F:385:GLU:N	2.36	0.58
2:F:741:ILE:HD11	2:F:852:PHE:CD1	2.39	0.58
2:G:61:SER:HB2	2:H:707:ASN:HD21	1.68	0.58
2:G:914:LEU:HB2	2:I:13:MET:CE	2.26	0.58
2:H:103:ILE:HB	2:H:533:ILE:CG1	2.34	0.58
2:H:693:LYS:HD3	2:H:717:GLU:OE1	2.03	0.58
2:I:113:PHE:CZ	2:I:115:PRO:HG3	2.38	0.58
2:I:273:HIS:HB3	2:I:298:ASN:HD21	1.67	0.58
2:I:291:LEU:HD12	2:I:291:LEU:H	1.68	0.58
2:I:742:GLN:OE1	2:I:742:GLN:HA	2.04	0.58
2:J:82:VAL:O	2:J:555:GLU:HG2	2.04	0.58
2:J:175:LYS:NZ	2:J:175:LYS:CA	2.67	0.58
2:J:497:TRP:CH2	2:J:836:LYS:HE2	2.39	0.58
2:J:508:PHE:HE2	2:J:684:THR:HA	1.68	0.58
2:J:655:ARG:C	2:J:656:LEU:HD23	2.28	0.58
2:J:704:TRP:CD2	2:J:705:PRO:CD	2.83	0.58
2:K:210:LEU:HB2	2:K:211:PRO:HD2	1.80	0.58
2:L:94:LEU:HD23	2:L:95:ASP:C	2.28	0.58
2:L:537:GLN:HE21	2:L:542:ILE:HD11	1.69	0.58
7:U:88:THR:HG23	7:U:176:THR:CG2	2.34	0.58
1:8:16:ARG:CB	2:C:47:ASN:ND2	2.67	0.58
2:A:748:ASN:OD1	2:A:853:MET:HE3	2.03	0.58
2:B:711:LEU:CD2	2:B:737:ASP:HB2	2.33	0.58
2:C:545:LEU:HD12	2:C:546:LEU:H	1.69	0.58
2:C:729:VAL:HB	2:C:736:LYS:CG	2.34	0.58
2:D:647:ALA:CB	2:D:858:LEU:HD11	2.33	0.58
2:D:799:SER:O	2:D:799:SER:OG	2.17	0.58
2:E:135:TRP:CD2	2:E:143:VAL:HG21	2.39	0.58
2:E:325:ALA:HB2	2:E:332:ASN:HA	1.83	0.58
2:E:335:VAL:HG11	7:T:108:LEU:CD1	2.34	0.58
2:F:83:ARG:HA	2:F:555:GLU:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:192:VAL:O	2:F:193:GLY:C	2.47	0.58
2:F:632:ASN:CB	6:P:10:VAL:HA	2.34	0.58
2:G:223:LYS:HA	2:G:223:LYS:CE	2.33	0.58
2:G:784:TYR:HE2	2:G:829:VAL:CG1	2.15	0.58
2:H:244:LEU:N	2:H:244:LEU:CD1	2.66	0.58
2:H:281:ALA:N	2:H:285:ILE:HD11	2.18	0.58
2:H:402:TYR:HB3	2:I:248:ALA:C	2.29	0.58
2:I:249:LEU:HD23	2:I:250:PRO:N	2.18	0.58
2:I:839:CYS:SG	2:I:842:THR:HG21	2.44	0.58
2:I:848:PHE:CD1	2:I:848:PHE:O	2.57	0.58
2:J:100:TYR:CE2	2:J:589:TYR:CD2	2.91	0.58
2:J:389:TYR:OH	2:L:809:MET:HA	2.03	0.58
2:J:454:LEU:HB3	2:J:455:PRO:HD2	1.85	0.58
2:J:497:TRP:CZ3	2:J:774:MET:HG3	2.39	0.58
2:J:678:VAL:HG11	2:J:681:LEU:HD21	1.85	0.58
2:K:135:TRP:CG	2:K:141:ILE:HB	2.38	0.58
2:K:455:PRO:HD3	2:K:505:VAL:HG11	1.84	0.58
2:L:9:GLN:HA	2:L:9:GLN:OE1	2.04	0.58
2:L:224:GLY:O	2:L:225:GLY:C	2.44	0.58
2:L:513:ASN:HD22	2:L:516:LEU:HB2	1.68	0.58
3:M:207:ASP:OD2	3:M:211:PHE:HE2	1.81	0.58
6:P:17:PHE:CD2	6:R:12:PHE:HZ	2.22	0.58
6:Q:17:PHE:C	6:Q:17:PHE:CD1	2.81	0.58
2:A:362:MET:HG2	2:A:363:TRP:CD2	2.38	0.58
2:A:513:ASN:O	2:A:517:ARG:HG2	2.03	0.58
2:A:616:PHE:O	2:A:617:ASN:ND2	2.37	0.58
2:A:697:MET:HE1	2:A:700:SER:N	2.18	0.58
2:A:701:SER:OG	2:E:919:SER:O	2.18	0.58
2:B:18:GLN:NE2	7:T:185:ARG:HA	2.19	0.58
2:B:51:ALA:HB2	2:C:856:GLY:N	2.18	0.58
2:B:66:LEU:O	2:B:589:TYR:HA	2.04	0.58
2:B:82:VAL:CG1	2:B:586:ILE:HD12	2.33	0.58
2:B:133:CYS:SG	2:B:209:MET:SD	3.02	0.58
2:B:182:GLN:N	2:C:811:GLU:HG3	2.19	0.58
2:C:356:ARG:CZ	2:C:356:ARG:CB	2.63	0.58
2:C:660:GLU:HB3	2:C:674:TYR:CD2	2.38	0.58
2:D:94:LEU:HD12	2:D:592:PHE:HE1	1.64	0.58
2:D:139:ASN:HB3	2:D:141:ILE:C	2.28	0.58
2:D:257:LYS:O	2:D:257:LYS:HE2	2.03	0.58
2:D:306:ARG:CB	2:D:310:ILE:HG22	2.33	0.58
2:D:317:SER:OG	2:D:665:GLY:HA2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:617:ASN:ND2	2:F:46:ARG:HH12	2.02	0.58
2:E:44:LYS:CB	2:F:616:PHE:HE1	2.17	0.58
2:E:101:PHE:CD2	2:E:558:PHE:HZ	2.21	0.58
2:E:636:VAL:HG11	2:E:878:PHE:HB2	1.86	0.58
2:E:734:MET:HE3	2:E:837:PHE:CZ	2.39	0.58
2:E:762:ASP:O	2:E:762:ASP:OD1	2.22	0.58
2:F:276:TYR:O	2:F:276:TYR:CD1	2.57	0.58
2:F:515:GLY:C	2:F:517:ARG:H	2.11	0.58
2:F:628:PRO:HG3	6:Q:25:LEU:HD13	1.84	0.58
2:G:135:TRP:O	2:G:141:ILE:HG22	2.04	0.58
2:G:344:LEU:HD23	2:G:344:LEU:C	2.28	0.58
2:G:349:MET:HA	2:G:619:TYR:CD2	2.38	0.58
2:H:65:THR:CG2	2:I:711:LEU:HD22	2.31	0.58
2:H:121:TYR:HE2	2:H:270:PRO:HB2	1.69	0.58
2:H:121:TYR:HE1	2:I:820:PRO:HB2	1.69	0.58
2:H:164:THR:N	2:H:168:ASN:HB2	2.19	0.58
2:H:453:TYR:C	2:H:502:MET:HE3	2.28	0.58
2:H:772:GLN:HA	2:H:772:GLN:OE1	2.03	0.58
2:H:784:TYR:CE1	2:H:829:VAL:HG12	2.38	0.58
2:J:40:SER:OG	2:L:752:GLN:NE2	2.32	0.58
2:J:172:TYR:HD1	2:J:242:VAL:CG2	2.17	0.58
2:J:430:ILE:N	2:J:430:ILE:HD13	2.19	0.58
2:J:441:LEU:O	2:J:441:LEU:HD12	2.03	0.58
2:K:211:PRO:HB2	2:K:295:ALA:HB2	1.85	0.58
2:K:334:VAL:HG12	2:K:539:PHE:CE2	2.38	0.58
2:K:649:ARG:CG	2:K:894:GLU:HB3	2.34	0.58
2:L:613:ASP:HB2	2:L:901:ILE:O	2.02	0.58
1:5:16:ARG:CB	1:5:16:ARG:NH2	2.52	0.58
2:A:94:LEU:HD12	2:A:592:PHE:HE1	1.69	0.58
2:A:506:ASN:CB	2:A:509:ASN:HD21	2.17	0.58
2:A:517:ARG:O	2:A:521:MET:HE2	2.03	0.58
2:B:491:VAL:O	2:B:492:ASN:HB2	2.03	0.58
2:B:614:GLN:HB3	2:B:616:PHE:CE1	2.38	0.58
2:C:110:GLY:O	2:C:112:SER:N	2.37	0.58
2:C:275:VAL:O	2:C:275:VAL:CG2	2.52	0.58
2:C:627:TYR:HE2	2:C:638:ILE:HD13	1.69	0.58
2:C:779:VAL:HG12	2:C:829:VAL:HG21	1.85	0.58
2:C:848:PHE:O	2:C:861:LEU:HD23	2.04	0.58
2:D:335:VAL:HG12	2:D:913:TYR:CD2	2.38	0.58
2:D:362:MET:HE3	2:D:363:TRP:CD1	2.38	0.58
2:D:410:GLN:OE1	2:E:256:PRO:HA	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:620:LEU:HD21	2:D:892:LEU:CD2	2.34	0.58
2:E:331:LEU:O	2:E:332:ASN:HB2	2.04	0.58
2:E:379:ASN:HD22	2:E:493:ILE:HD13	1.68	0.58
2:E:749:ILE:HD11	2:E:757:PRO:HG3	1.85	0.58
2:E:903:GLN:HG3	2:E:909:ILE:CD1	2.32	0.58
2:F:663:SER:HB2	2:F:669:ASP:HB2	1.86	0.58
2:G:135:TRP:O	2:G:135:TRP:CD2	2.57	0.58
2:G:142:LYS:HG2	2:G:247:PHE:CZ	2.39	0.58
2:G:563:ASN:HB3	2:G:674:TYR:O	2.04	0.58
2:G:734:MET:HE2	2:G:739:PHE:HD2	1.67	0.58
2:G:742:GLN:HG3	2:G:844:TRP:CZ3	2.38	0.58
2:H:114:LYS:HZ1	2:H:300:PRO:HA	1.69	0.58
2:I:227:ALA:O	2:I:228:SER:OG	2.21	0.58
2:I:407:ALA:HB2	2:I:414:ALA:O	2.04	0.58
2:I:656:LEU:HD12	2:I:661:THR:HG22	1.86	0.58
2:J:100:TYR:CE2	2:J:589:TYR:CB	2.85	0.58
2:J:375:ARG:CZ	2:J:507:PRO:HG2	2.34	0.58
2:K:67:ARG:CB	2:K:589:TYR:HE1	2.13	0.58
2:K:83:ARG:HH11	2:K:83:ARG:HG2	1.69	0.58
2:K:221:ASN:O	2:K:223:LYS:N	2.37	0.58
2:K:399:THR:HG21	2:L:145:GLY:HA3	1.86	0.58
2:L:324:LEU:CD1	2:L:554:TYR:HD1	2.16	0.58
3:M:76:ASP:HB3	3:M:101:PRO:HB2	1.86	0.58
3:M:204:VAL:HG22	3:M:238:LEU:HD22	1.85	0.58
5:O:117:ASN:ND2	5:O:117:ASN:C	2.62	0.58
5:O:179:LEU:HD12	5:O:250:PHE:HE2	1.68	0.58
6:Q:34:ASN:CA	6:Q:47:PRO:HB2	2.31	0.58
7:T:4:GLU:O	7:T:6:PRO:HD3	2.03	0.58
7:T:208:SER:O	7:T:208:SER:OG	2.19	0.58
7:U:216:ASP:HB3	7:U:222:TYR:CE2	2.39	0.58
2:A:39:PHE:HA	2:C:752:GLN:OE1	2.04	0.58
2:A:207:THR:OG1	2:A:208:PRO:N	2.36	0.58
2:B:12:TYR:C	2:B:13:MET:HE2	2.29	0.58
2:B:229:LEU:HA	2:B:240:SER:CA	2.32	0.58
2:B:307:ASP:H	2:B:519:ARG:NH1	2.02	0.58
2:B:437:LEU:C	2:B:439:ALA:H	2.10	0.58
2:B:734:MET:HE1	2:B:739:PHE:HD2	1.67	0.58
2:C:895:VAL:HG23	2:C:917:PRO:HD2	1.86	0.58
2:D:96:MET:HE1	2:D:324:LEU:HD21	1.85	0.58
2:D:117:SER:OG	2:D:118:GLY:N	2.36	0.58
2:D:477:MET:HE3	2:D:570:LEU:CD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:779:VAL:O	2:E:781:THR:N	2.36	0.58
2:F:113:PHE:CE1	2:F:303:ILE:HB	2.39	0.58
2:F:135:TRP:CG	2:F:136:LYS:H	2.22	0.58
2:F:213:TYR:O	2:F:213:TYR:CG	2.55	0.58
2:F:385:GLU:HB2	2:F:386:LEU:HD12	1.85	0.58
2:F:469:GLU:HG3	2:F:470:ASN:N	2.17	0.58
2:F:653:PHE:CE2	2:F:846:ILE:HD11	2.39	0.58
2:G:769:ARG:HH11	2:G:769:ARG:HG2	1.69	0.58
2:H:280:VAL:O	2:H:280:VAL:CG1	2.51	0.58
2:H:316:ASN:ND2	2:H:340:ARG:O	2.37	0.58
2:I:73:ARG:HG2	2:I:73:ARG:NH1	2.16	0.58
2:I:109:ARG:O	2:I:527:ARG:HB2	2.04	0.58
2:I:135:TRP:HZ3	2:I:209:MET:SD	2.27	0.58
2:I:329:SER:O	2:I:331:LEU:HG	2.02	0.58
2:I:389:TYR:CB	2:I:391:PHE:HE1	2.16	0.58
2:I:904:PRO:HD2	2:I:908:VAL:CG1	2.30	0.58
2:J:141:ILE:C	2:J:142:LYS:HG2	2.28	0.58
2:J:178:GLN:NE2	2:K:796:HIS:HB2	2.18	0.58
2:K:308:ASN:HD22	2:K:346:TYR:HE2	1.50	0.58
2:K:630:PRO:HB2	2:K:633:ALA:HB2	1.86	0.58
5:O:43:LEU:HD23	5:O:45:LEU:CD2	2.33	0.58
5:O:113:TYR:CD1	5:O:113:TYR:N	2.65	0.58
5:O:239:ASN:HB2	7:T:4:GLU:OE2	2.04	0.58
5:O:254:SER:O	5:O:256:ILE:HB	2.04	0.58
6:R:18:SER:O	6:R:20:TYR:N	2.37	0.58
1:1:19:MET:O	9:Z:7:UNK:HA	2.04	0.58
2:A:447:TYR:HA	2:A:451:ALA:HB2	1.85	0.58
2:A:532:HIS:CD2	2:A:534:GLN:HE22	2.21	0.58
2:A:821:TYR:CZ	2:C:219:PRO:HD2	2.39	0.58
2:B:58:THR:HG21	2:B:597:HIS:CD2	2.38	0.58
2:B:99:THR:CG2	2:B:588:LEU:HD11	2.26	0.58
2:B:198:VAL:CG2	2:B:257:LYS:HB3	2.33	0.58
2:B:337:LEU:H	2:B:337:LEU:HD12	1.69	0.58
2:B:662:PRO:O	2:B:662:PRO:HG2	2.03	0.58
2:C:16:ALA:HA	2:C:48:PRO:CB	2.34	0.58
2:C:211:PRO:O	2:C:211:PRO:HG2	2.04	0.58
2:C:608:ARG:NH2	2:C:906:ARG:HA	2.19	0.58
2:D:223:LYS:NZ	2:D:223:LYS:CB	2.54	0.58
2:D:339:ASP:OD1	2:D:915:ARG:NH1	2.37	0.58
2:D:542:ILE:HD13	2:D:556:TRP:CH2	2.36	0.58
2:D:729:VAL:CG1	2:D:730:ALA:H	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:754:PHE:HD2	2:F:362:MET:HE1	1.69	0.58
2:D:778:VAL:HG12	2:D:832:LEU:O	2.03	0.58
2:E:149:PHE:O	2:E:149:PHE:CG	2.50	0.58
2:E:836:LYS:HG2	2:E:837:PHE:N	2.17	0.58
2:E:851:ASN:CB	2:E:853:MET:HG3	2.34	0.58
2:F:263:GLU:N	2:F:263:GLU:OE1	2.37	0.58
2:F:629:ILE:HD12	2:F:636:VAL:HG11	1.84	0.58
2:F:681:LEU:O	2:F:681:LEU:HD12	2.04	0.58
2:F:831:SER:O	2:F:831:SER:OG	2.16	0.58
2:G:213:TYR:OH	2:H:384:ASP:OD2	2.20	0.58
2:G:289:ASP:C	2:G:291:LEU:H	2.12	0.58
2:G:395:GLY:H	2:H:129:ALA:HB1	1.69	0.58
2:G:478:ASN:OD1	2:G:479:GLY:N	2.37	0.58
2:G:819:TYR:HB3	2:G:820:PRO:HD3	1.85	0.58
2:H:114:LYS:NZ	2:H:299:ARG:C	2.62	0.58
2:H:174:ASP:H	2:H:176:THR:HG23	1.68	0.58
2:H:334:VAL:O	2:H:334:VAL:HG13	2.03	0.58
2:H:742:GLN:NE2	2:H:845:ARG:H	2.02	0.58
2:I:90:ASP:HA	2:I:549:PRO:HB3	1.86	0.58
2:I:109:ARG:HD2	2:I:113:PHE:CD2	2.39	0.58
2:J:146:GLN:O	2:L:429:ASN:N	2.37	0.58
2:J:685:PHE:O	2:J:841:ARG:N	2.25	0.58
2:K:297:PRO:HG3	2:L:385:GLU:HG3	1.86	0.58
2:K:567:GLN:NE2	2:K:677:SER:HB2	2.19	0.58
2:L:144:ARG:CZ	2:L:144:ARG:CB	2.78	0.58
2:L:655:ARG:HE	2:L:880:VAL:HG11	1.68	0.58
2:B:382:VAL:O	2:B:383:GLU:C	2.46	0.57
2:B:539:PHE:CE1	2:B:541:ALA:HB3	2.39	0.57
2:B:593:PHE:HD2	2:B:595:MET:HB3	1.67	0.57
2:C:300:PRO:O	2:C:300:PRO:CG	2.39	0.57
2:C:355:ASP:O	2:C:355:ASP:CG	2.42	0.57
2:D:177:TYR:HE1	2:E:813:GLN:CB	2.17	0.57
2:D:346:TYR:CG	2:D:538:LYS:HG2	2.38	0.57
2:D:398:ALA:HB3	2:D:424:GLU:OE2	2.04	0.57
2:D:781:THR:HA	2:D:787:TYR:CE2	2.39	0.57
2:E:156:LYS:HE2	2:E:246:PHE:CE2	2.38	0.57
2:E:711:LEU:HD11	2:E:727:TYR:CE1	2.34	0.57
2:E:735:THR:O	2:E:737:ASP:N	2.37	0.57
2:E:815:TYR:CG	2:E:816:PRO:CD	2.74	0.57
2:F:284:THR:O	2:F:286:SER:N	2.34	0.57
2:F:306:ARG:HB3	2:F:310:ILE:HG12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:302:TYR:O	2:G:516:LEU:HD21	2.02	0.57
2:G:748:ASN:HB2	2:G:853:MET:HE3	1.85	0.57
2:H:280:VAL:CA	2:H:285:ILE:HD11	2.33	0.57
2:H:376:ILE:O	2:H:376:ILE:CG2	2.51	0.57
2:H:508:PHE:HB3	2:H:513:ASN:ND2	2.17	0.57
2:H:645:TRP:HE3	2:H:648:PHE:CD2	2.22	0.57
2:I:367:VAL:HG11	2:I:764:MET:CE	2.34	0.57
2:I:447:TYR:CE1	2:I:452:LEU:HD11	2.39	0.57
2:J:147:ALA:HA	2:L:429:ASN:N	2.19	0.57
2:J:208:PRO:O	2:J:267:ILE:HG21	2.04	0.57
2:J:841:ARG:HG2	2:J:841:ARG:O	2.03	0.57
2:K:593:PHE:HD1	2:L:751:TYR:HD2	1.50	0.57
2:L:172:TYR:C	2:L:174:ASP:N	2.62	0.57
2:L:249:LEU:CD2	2:L:251:SER:H	2.17	0.57
2:L:299:ARG:HH22	2:L:459:LYS:HZ1	1.52	0.57
2:L:914:LEU:C	2:L:914:LEU:HD12	2.28	0.57
3:M:366:ASP:CG	3:M:367:VAL:H	2.12	0.57
6:P:19:PRO:O	6:P:19:PRO:CG	2.49	0.57
7:U:98:GLU:HG2	7:U:168:PHE:HZ	1.69	0.57
2:A:84:PHE:N	2:A:554:TYR:O	2.37	0.57
2:A:629:ILE:HD12	2:A:636:VAL:HB	1.84	0.57
2:B:345:SER:OG	2:B:346:TYR:N	2.36	0.57
2:B:474:TYR:O	2:B:475:ALA:C	2.44	0.57
2:B:694:VAL:HG23	2:B:878:PHE:CE1	2.38	0.57
2:B:864:ASN:C	2:B:866:LEU:H	2.11	0.57
2:C:347:GLN:O	2:C:347:GLN:HG3	2.03	0.57
2:D:116:TYR:CD1	2:D:116:TYR:O	2.57	0.57
2:D:226:GLN:HA	2:D:265:VAL:CG2	2.32	0.57
2:D:251:SER:O	2:D:251:SER:OG	2.22	0.57
2:D:340:ARG:O	2:D:340:ARG:HD2	2.03	0.57
2:E:35:THR:HG22	2:E:38:TYR:OH	2.04	0.57
2:E:241:ASP:OD1	2:E:242:VAL:HG23	2.03	0.57
2:E:249:LEU:HD23	2:E:257:LYS:CG	2.34	0.57
2:E:316:ASN:HD22	2:E:341:ASN:HA	1.67	0.57
2:E:433:MET:HE3	2:F:390:CYS:SG	2.44	0.57
2:F:111:PRO:N	2:F:527:ARG:HE	2.02	0.57
2:F:178:GLN:HG3	2:F:179:PRO:HD2	1.81	0.57
2:F:349:MET:HE1	2:F:543:LYS:HD2	1.85	0.57
2:F:603:LEU:CD1	2:F:607:LEU:HD11	2.34	0.57
2:F:637:PRO:CB	6:R:23:THR:HG21	2.34	0.57
2:G:383:GLU:HA	2:G:383:GLU:OE2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:539:PHE:HD1	2:G:541:ALA:H	1.52	0.57
2:G:651:TRP:CD1	2:G:876:MET:HE1	2.39	0.57
2:H:89:GLY:HA3	2:H:92:ARG:HD3	1.87	0.57
2:H:109:ARG:HD3	2:H:113:PHE:CD2	2.39	0.57
2:H:405:ILE:O	2:H:408:ASN:N	2.35	0.57
2:I:390:CYS:O	2:I:432:ALA:HB1	2.04	0.57
2:J:418:TYR:CB	2:J:421:ARG:HB2	2.34	0.57
2:J:437:LEU:HD12	2:J:437:LEU:O	2.03	0.57
2:K:742:GLN:HA	2:K:742:GLN:OE1	2.02	0.57
2:L:221:ASN:OD1	2:L:222:GLU:N	2.37	0.57
2:L:719:LYS:HG2	2:L:837:PHE:HE1	1.70	0.57
5:O:88:LEU:HB2	5:O:94:ILE:HD11	1.86	0.57
1:1:16:ARG:NH2	1:1:18:PHE:HB3	2.15	0.57
2:A:67:ARG:HA	2:A:589:TYR:CE1	2.39	0.57
2:A:821:TYR:OH	2:C:219:PRO:HG2	2.03	0.57
2:B:198:VAL:N	2:B:257:LYS:O	2.38	0.57
2:B:226:GLN:HB3	2:B:265:VAL:HG23	1.87	0.57
2:C:583:PHE:O	2:C:584:ASP:C	2.45	0.57
2:C:726:GLY:C	2:C:727:TYR:HD1	2.11	0.57
2:C:866:LEU:HD21	7:T:231:GLY:CA	2.34	0.57
2:D:69:VAL:HG12	2:D:70:PRO:HD2	1.85	0.57
2:D:94:LEU:C	2:D:94:LEU:HD23	2.30	0.57
2:D:138:ASN:ND2	2:D:138:ASN:N	2.52	0.57
2:D:732:CYS:O	2:D:734:MET:N	2.37	0.57
2:D:739:PHE:CE2	2:D:743:MET:HE3	2.38	0.57
2:E:188:TRP:O	2:E:190:SER:N	2.37	0.57
2:E:252:THR:O	2:E:252:THR:HG23	2.05	0.57
2:E:503:ASP:OD2	2:E:836:LYS:HD3	2.04	0.57
2:E:833:THR:O	2:E:833:THR:HG23	2.04	0.57
2:F:648:PHE:O	2:F:648:PHE:CD1	2.56	0.57
2:H:124:LEU:O	2:H:124:LEU:CG	2.52	0.57
2:H:871:ALA:HB2	4:N:180:ARG:NH1	2.13	0.57
2:I:215:SER:CB	2:I:267:ILE:HD11	2.31	0.57
2:I:608:ARG:HG2	2:I:608:ARG:NH1	2.18	0.57
2:J:13:MET:HG3	2:K:914:LEU:CD1	2.33	0.57
2:J:545:LEU:HD22	2:J:901:ILE:CD1	2.32	0.57
2:K:222:GLU:O	2:L:790:VAL:HG12	2.04	0.57
2:K:347:GLN:NE2	2:K:682:ASP:HA	2.16	0.57
2:L:144:ARG:CG	2:L:144:ARG:NH2	2.65	0.57
2:L:314:TYR:CE2	2:L:559:ARG:HG3	2.39	0.57
2:L:315:TYR:HE1	2:L:539:PHE:HB2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:545:LEU:HD12	2:L:546:LEU:H	1.68	0.57
3:M:132:ILE:CD1	3:M:166:LEU:HD12	2.30	0.57
3:M:221:LEU:CG	3:M:336:ASN:HA	2.34	0.57
7:T:101:MET:CE	7:T:168:PHE:HB3	2.32	0.57
1:0:22:ARG:HD2	1:0:23:HIS:N	2.20	0.57
1:4:22:TRP:HB2	1:4:25:ILE:CG2	2.34	0.57
2:A:8:PRO:O	2:A:8:PRO:CG	2.45	0.57
2:A:497:TRP:HE3	2:A:776:ARG:HG2	1.64	0.57
2:A:786:GLU:C	2:A:788:GLN:H	2.10	0.57
2:A:873:ALA:HB3	2:E:641:PRO:HG2	1.86	0.57
2:B:300:PRO:HB3	2:B:511:HIS:ND1	2.20	0.57
2:B:309:PHE:CE1	2:B:533:ILE:HD12	2.40	0.57
2:C:20:ALA:O	2:C:24:LEU:HD23	2.04	0.57
2:C:177:TYR:CD2	2:C:177:TYR:C	2.82	0.57
2:C:178:GLN:H	2:C:178:GLN:NE2	1.97	0.57
2:C:205:ASP:OD1	2:C:205:ASP:C	2.48	0.57
2:C:343:GLU:CG	2:C:681:LEU:HD22	2.34	0.57
2:C:680:TYR:CE1	2:C:890:TYR:HE2	2.22	0.57
2:C:799:SER:HB2	2:C:814:ALA:HA	1.87	0.57
2:D:342:THR:O	2:D:342:THR:HG23	2.03	0.57
2:D:346:TYR:CD2	2:D:538:LYS:HG2	2.38	0.57
2:D:731:GLN:HB2	2:F:522:LEU:HD21	1.86	0.57
2:D:752:GLN:HA	2:D:752:GLN:OE1	2.04	0.57
2:D:780:ASN:O	2:D:780:ASN:CG	2.43	0.57
2:E:96:MET:HG3	2:E:99:THR:CG2	2.33	0.57
2:E:150:ILE:HD12	2:E:150:ILE:H	1.69	0.57
2:E:200:GLY:C	2:E:260:LEU:HD13	2.30	0.57
2:E:634:THR:O	2:E:635:SER:OG	2.17	0.57
2:E:696:ILE:HG12	2:E:876:MET:HE2	1.87	0.57
2:E:818:ASN:O	2:E:818:ASN:CG	2.37	0.57
2:F:24:LEU:HD11	2:F:45:PHE:CD2	2.39	0.57
2:F:182:GLN:N	2:F:182:GLN:NE2	2.52	0.57
2:F:623:ALA:O	2:F:625:MET:HG3	2.05	0.57
2:G:747:TYR:CD2	2:G:757:PRO:HG3	2.39	0.57
2:G:865:MET:HE3	2:G:869:ASN:ND2	2.17	0.57
2:H:86:LEU:HD13	2:H:588:LEU:CD1	2.35	0.57
2:H:335:VAL:HB	2:H:913:TYR:HE2	1.68	0.57
2:I:677:SER:HB2	2:I:682:ASP:OD2	2.04	0.57
2:J:67:ARG:HG3	2:J:589:TYR:CE1	2.40	0.57
2:J:126:PRO:O	2:J:126:PRO:HG2	2.03	0.57
2:J:229:LEU:O	2:J:230:ILE:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:324:LEU:HD12	2:J:553:THR:O	2.04	0.57
2:J:402:TYR:HE1	2:K:249:LEU:HD13	1.69	0.57
2:J:545:LEU:HA	2:J:616:PHE:HZ	1.69	0.57
2:J:655:ARG:O	2:J:656:LEU:HD23	2.04	0.57
2:K:427:SER:OG	2:K:428:GLY:N	2.33	0.57
2:K:752:GLN:HA	2:K:752:GLN:OE1	2.05	0.57
2:K:910:GLU:CG	7:T:37:GLY:H	2.17	0.57
2:L:183:VAL:O	2:L:183:VAL:HG13	2.03	0.57
2:L:308:ASN:HB3	2:L:310:ILE:CD1	2.34	0.57
2:L:786:GLU:N	2:L:786:GLU:OE1	2.37	0.57
3:M:285:VAL:HG12	3:M:285:VAL:O	2.02	0.57
5:O:236:LEU:HB3	5:O:240:THR:OG1	2.04	0.57
6:S:32:ARG:HH11	6:S:32:ARG:CG	2.15	0.57
2:A:220:THR:C	2:B:788:GLN:HE22	2.11	0.57
2:A:221:ASN:CA	2:B:788:GLN:HE22	2.18	0.57
2:B:361:SER:O	2:B:362:MET:C	2.47	0.57
2:B:529:VAL:HG23	2:C:777:GLN:HE21	1.69	0.57
2:B:593:PHE:HE1	2:C:853:MET:CE	2.17	0.57
2:B:653:PHE:HE2	2:B:738:TRP:CH2	2.22	0.57
2:B:734:MET:HB2	2:B:837:PHE:CD2	2.40	0.57
2:C:64:LEU:HD11	2:C:594:PRO:CD	2.35	0.57
2:C:99:THR:O	2:C:99:THR:OG1	2.04	0.57
2:C:112:SER:O	2:C:113:PHE:C	2.45	0.57
2:C:189:ASN:O	2:C:190:SER:C	2.48	0.57
2:D:31:PHE:O	2:D:35:THR:OG1	2.22	0.57
2:D:109:ARG:O	2:D:527:ARG:HG2	2.04	0.57
2:D:816:PRO:HA	2:F:215:SER:OG	2.04	0.57
2:E:94:LEU:HD21	2:E:99:THR:HG22	1.87	0.57
2:E:221:ASN:N	2:F:788:GLN:OE1	2.36	0.57
2:E:252:THR:HG1	2:E:255:GLU:CD	2.04	0.57
2:E:483:VAL:HG12	2:E:805:MET:HG2	1.85	0.57
2:E:552:TYR:CE2	2:E:909:ILE:HG12	2.40	0.57
2:E:796:HIS:ND1	2:E:796:HIS:O	2.37	0.57
2:F:103:ILE:HG12	2:F:586:ILE:HD12	1.85	0.57
2:F:114:LYS:HE3	2:F:298:ASN:HB2	1.86	0.57
2:F:115:PRO:O	2:F:115:PRO:CG	2.46	0.57
2:F:516:LEU:HD12	2:F:516:LEU:O	2.05	0.57
2:F:837:PHE:HZ	2:F:844:TRP:CH2	2.23	0.57
2:G:86:LEU:HD23	2:G:547:LEU:CD2	2.35	0.57
2:G:376:ILE:O	2:G:376:ILE:CG2	2.42	0.57
2:G:483:VAL:CG1	2:G:805:MET:HB2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:608:ARG:NH2	2:G:906:ARG:CA	2.68	0.57
2:H:313:MET:HE3	2:H:315:TYR:CE2	2.39	0.57
2:H:719:LYS:HZ1	6:Q:53:LEU:HB2	1.68	0.57
2:I:325:ALA:O	2:I:553:THR:HG22	2.04	0.57
2:I:756:VAL:HG23	2:I:768:PHE:CE2	2.39	0.57
2:J:544:ASN:HB2	2:J:616:PHE:CE2	2.39	0.57
2:J:895:VAL:HG12	2:J:917:PRO:HA	1.86	0.57
2:J:904:PRO:HD2	2:J:908:VAL:HG23	1.86	0.57
2:K:339:ASP:OD1	2:K:915:ARG:NH2	2.36	0.57
2:K:625:MET:C	2:K:626:LEU:HD23	2.29	0.57
2:K:694:VAL:HG23	2:K:878:PHE:HE1	1.64	0.57
2:L:24:LEU:HD11	2:L:45:PHE:CD2	2.38	0.57
2:L:156:LYS:O	2:L:157:ASP:HB2	2.04	0.57
2:L:749:ILE:O	2:L:751:TYR:N	2.37	0.57
3:M:69:LEU:CD1	3:M:93:VAL:HG12	2.34	0.57
6:P:2:SER:OG	6:R:37:GLY:N	2.36	0.57
7:U:58:GLN:HA	7:U:61:LEU:CD2	2.34	0.57
1:9:12:ARG:O	2:H:619:TYR:HE1	1.88	0.57
2:A:5:SER:OG	2:A:6:MET:N	2.34	0.57
2:A:56:VAL:O	2:A:56:VAL:HG22	2.04	0.57
2:A:442:TRP:CD1	2:A:489:THR:HG1	2.22	0.57
2:A:620:LEU:O	2:A:620:LEU:CG	2.46	0.57
2:A:804:TYR:CD1	2:A:805:MET:HG3	2.39	0.57
2:A:809:MET:HG2	2:A:810:ARG:H	1.69	0.57
2:B:105:GLY:HA2	2:B:584:ASP:HB2	1.87	0.57
2:B:154:ILE:O	2:B:154:ILE:HG13	2.03	0.57
2:B:197:LYS:N	2:B:197:LYS:HD2	2.20	0.57
2:B:346:TYR:C	2:B:348:LEU:H	2.13	0.57
2:B:651:TRP:CD2	2:B:846:ILE:CD1	2.87	0.57
2:B:900:ARG:HB3	2:B:912:VAL:CG2	2.34	0.57
2:C:18:GLN:HA	2:C:18:GLN:OE1	2.03	0.57
2:C:902:HIS:HE1	2:C:904:PRO:HG3	1.68	0.57
2:D:7:MET:N	2:D:8:PRO:HD3	2.19	0.57
2:D:302:TYR:CD2	2:D:517:ARG:HA	2.39	0.57
2:D:447:TYR:OH	2:E:385:GLU:N	2.38	0.57
2:E:356:ARG:HB2	2:E:764:MET:CE	2.33	0.57
2:E:771:PHE:O	2:E:771:PHE:CD1	2.57	0.57
2:F:310:ILE:HD12	2:F:681:LEU:HD12	1.87	0.57
2:F:488:ASP:O	2:F:491:VAL:HG22	2.04	0.57
2:F:781:THR:HG23	2:F:787:TYR:CD2	2.38	0.57
2:F:908:VAL:HG13	2:F:908:VAL:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:379:ASN:O	2:G:380:HIS:C	2.46	0.57
2:G:636:VAL:O	2:G:636:VAL:HG13	2.05	0.57
2:G:718:ILE:HG23	2:G:738:TRP:CD2	2.40	0.57
2:G:809:MET:HB2	2:H:389:TYR:OH	2.04	0.57
2:G:851:ASN:OD1	2:G:853:MET:HB2	2.04	0.57
2:G:853:MET:SD	2:H:38:TYR:HB2	2.45	0.57
2:H:53:THR:HA	2:I:863:GLN:HE21	1.69	0.57
2:H:291:LEU:HD12	2:H:291:LEU:N	2.20	0.57
2:I:150:ILE:HG12	2:I:183:VAL:HG22	1.86	0.57
2:I:407:ALA:O	2:I:408:ASN:C	2.48	0.57
2:I:800:GLY:HA2	2:I:812:GLY:O	2.05	0.57
2:J:799:SER:OG	2:J:813:GLN:O	2.23	0.57
2:J:800:GLY:HA3	2:J:812:GLY:O	2.03	0.57
2:J:813:GLN:HE22	2:L:147:ALA:CA	2.16	0.57
2:J:888:LEU:CD2	6:R:25:LEU:HD22	2.34	0.57
2:K:119:THR:HG23	2:K:271:ASP:HB3	1.85	0.57
2:K:545:LEU:CD1	2:K:901:ILE:HD13	2.35	0.57
2:K:634:THR:HG23	2:K:880:VAL:O	2.04	0.57
2:L:129:ALA:O	2:L:212:CYS:N	2.38	0.57
2:L:698:PHE:CE2	2:L:867:TYR:HE1	2.22	0.57
3:M:73:LYS:NZ	3:M:89:PHE:CG	2.67	0.57
3:M:73:LYS:CE	3:M:89:PHE:CB	2.61	0.57
5:O:278:VAL:O	5:O:281:GLN:HG2	2.05	0.57
7:U:18:GLY:O	7:U:19:LEU:C	2.47	0.57
7:U:53:GLN:O	7:U:57:GLU:HG3	2.04	0.57
1:4:25:ILE:HG13	1:4:26:GLY:H	1.69	0.57
2:A:652:SER:OG	2:A:843:MET:HG2	2.04	0.57
2:A:836:LYS:NZ	2:A:838:LEU:HD21	2.20	0.57
2:C:356:ARG:HB3	2:C:367:VAL:CG1	2.33	0.57
2:C:720:ARG:NH1	2:C:723:ASP:O	2.38	0.57
2:C:744:LEU:O	2:C:744:LEU:CD1	2.52	0.57
2:D:406:LYS:HB2	2:D:410:GLN:CB	2.34	0.57
2:E:144:ARG:N	2:E:144:ARG:CD	2.68	0.57
2:E:305:PHE:CD2	2:E:533:ILE:HD11	2.40	0.57
2:E:306:ARG:HB3	2:E:310:ILE:HG12	1.86	0.57
2:F:131:ASN:O	2:F:133:CYS:N	2.37	0.57
2:F:207:THR:O	2:F:207:THR:OG1	2.13	0.57
2:F:454:LEU:CD2	2:F:502:MET:HB3	2.34	0.57
2:F:685:PHE:O	2:F:841:ARG:N	2.28	0.57
2:F:895:VAL:HG11	2:F:917:PRO:HB2	1.87	0.57
2:G:63:ARG:NH2	2:H:711:LEU:HD12	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:175:LYS:O	2:G:176:THR:C	2.46	0.57
2:G:396:SER:O	2:G:396:SER:OG	2.10	0.57
2:G:467:LEU:HD12	2:G:476:TYR:HA	1.87	0.57
2:G:474:TYR:HE1	2:G:478:ASN:HB3	1.69	0.57
2:H:116:TYR:CE2	2:I:824:ILE:HD11	2.39	0.57
2:H:174:ASP:O	2:H:176:THR:N	2.32	0.57
2:H:654:THR:HG21	2:H:685:PHE:CE1	2.40	0.57
2:I:858:LEU:O	2:I:858:LEU:HD23	2.04	0.57
2:J:135:TRP:NE1	2:J:141:ILE:HG21	2.19	0.57
2:J:247:PHE:CB	2:J:257:LYS:HD3	2.35	0.57
2:J:364:ASN:OD1	2:J:519:ARG:HG2	2.04	0.57
2:J:447:TYR:HB3	2:K:386:LEU:HD11	1.87	0.57
2:J:617:ASN:HB2	2:L:46:ARG:HH12	1.68	0.57
2:J:811:GLU:OE2	2:L:182:GLN:HA	2.05	0.57
2:K:20:ALA:HB2	2:K:46:ARG:O	2.03	0.57
2:K:88:VAL:CG2	2:K:549:PRO:HA	2.30	0.57
2:K:325:ALA:O	2:K:553:THR:HG22	2.04	0.57
2:K:404:GLY:C	2:K:405:ILE:HD12	2.30	0.57
2:K:582:ARG:HG2	2:K:582:ARG:NH1	2.18	0.57
2:K:799:SER:HB2	2:K:814:ALA:N	2.20	0.57
2:K:869:ASN:HA	7:T:10:MET:HE1	1.86	0.57
2:L:302:TYR:HB3	2:L:520:SER:CB	2.35	0.57
2:L:344:LEU:O	2:L:344:LEU:HD23	2.04	0.57
2:L:476:TYR:CZ	2:L:480:ARG:HD2	2.39	0.57
2:L:572:ASN:O	2:L:675:SER:OG	2.05	0.57
2:L:655:ARG:HH12	2:L:883:MET:CB	2.16	0.57
6:S:13:LYS:HB2	6:S:13:LYS:NZ	2.20	0.57
6:S:35:VAL:CG1	6:S:36:MET:N	2.67	0.57
2:A:291:LEU:O	2:A:292:THR:C	2.46	0.57
2:A:653:PHE:HE2	2:A:846:ILE:HD11	1.69	0.57
2:A:680:TYR:HE1	2:A:890:TYR:CE1	2.22	0.57
2:B:174:ASP:CG	2:B:175:LYS:HG3	2.30	0.57
2:B:175:LYS:C	2:B:177:TYR:H	2.12	0.57
2:B:453:TYR:CE2	2:B:510:HIS:CA	2.82	0.57
2:C:277:LYS:HB3	2:C:277:LYS:HZ3	1.67	0.57
2:C:306:ARG:O	2:C:309:PHE:N	2.36	0.57
2:C:345:SER:O	2:C:348:LEU:N	2.30	0.57
2:C:516:LEU:HD21	2:C:568:SER:O	2.05	0.57
2:C:849:SER:HB3	2:C:860:ASP:OD2	2.05	0.57
2:D:107:LEU:HD23	2:D:107:LEU:C	2.29	0.57
2:D:537:GLN:HA	2:D:537:GLN:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:705:PRO:HG3	2:D:716:PHE:CZ	2.40	0.57
2:D:819:TYR:O	2:D:819:TYR:CG	2.56	0.57
2:E:161:GLN:NE2	2:E:167:THR:O	2.38	0.57
2:E:316:ASN:HD21	2:E:340:ARG:C	2.13	0.57
2:E:649:ARG:HD3	2:E:896:PHE:CE1	2.39	0.57
2:E:800:GLY:O	2:E:802:VAL:N	2.37	0.57
2:F:639:SER:HB3	6:Q:21:LEU:HD11	1.86	0.57
2:F:654:THR:HG22	2:F:655:ARG:N	2.16	0.57
2:F:742:GLN:HE22	2:F:845:ARG:H	1.52	0.57
2:G:306:ARG:HD2	2:G:310:ILE:HG22	1.85	0.57
2:G:707:ASN:CB	2:I:61:SER:HA	2.34	0.57
2:G:818:ASN:HD21	2:I:219:PRO:CB	2.11	0.57
2:H:84:PHE:HB2	2:H:554:TYR:O	2.04	0.57
2:I:115:PRO:HA	2:I:302:TYR:CE1	2.40	0.57
2:I:711:LEU:HD12	2:I:727:TYR:CE1	2.40	0.57
2:J:190:SER:OG	2:J:190:SER:O	2.16	0.57
2:J:308:ASN:HD21	2:J:356:ARG:NH2	2.03	0.57
2:J:375:ARG:O	2:J:375:ARG:HG3	2.05	0.57
2:J:410:GLN:O	2:J:412:TRP:N	2.38	0.57
2:K:67:ARG:NH2	2:K:587:ASN:OD1	2.38	0.57
2:K:209:MET:HE1	2:K:291:LEU:HD23	1.87	0.57
2:K:296:ALA:CB	2:K:297:PRO:CD	2.77	0.57
2:K:502:MET:SD	2:K:505:VAL:HG21	2.43	0.57
2:K:521:MET:CE	2:L:495:ALA:CA	2.82	0.57
2:L:94:LEU:HD12	2:L:592:PHE:CE1	2.39	0.57
2:L:246:PHE:CD1	2:L:259:VAL:HG12	2.40	0.57
2:L:337:LEU:HD22	2:L:915:ARG:HH21	1.68	0.57
2:L:630:PRO:HG2	2:L:633:ALA:HB2	1.85	0.57
3:M:150:LYS:HE3	3:M:155:GLY:CA	2.34	0.57
3:M:187:ASN:OD1	3:M:191:VAL:HG23	2.05	0.57
5:O:208:ASN:HD21	5:O:243:LEU:CD1	2.18	0.57
6:Q:37:GLY:O	6:Q:45:VAL:HG22	2.05	0.57
6:R:26:PRO:HD2	6:R:31:VAL:HG11	1.87	0.57
7:T:19:LEU:HD12	7:T:20:ALA:O	2.05	0.57
2:A:62:GLN:HE21	2:A:597:HIS:HE1	1.53	0.57
2:A:617:ASN:OD1	2:C:46:ARG:NH1	2.38	0.57
2:B:198:VAL:HG23	2:B:257:LYS:C	2.30	0.57
2:B:249:LEU:HD21	2:B:257:LYS:HD3	1.85	0.57
2:B:453:TYR:C	2:B:454:LEU:HD23	2.30	0.57
2:B:477:MET:HA	2:B:477:MET:CE	2.30	0.57
2:B:497:TRP:CD1	2:B:776:ARG:HD3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:540:PHE:HB3	2:B:618:ASP:HB3	1.87	0.57
2:B:588:LEU:HD12	2:B:589:TYR:H	1.69	0.57
2:C:216:TYR:CG	2:C:217:ALA:N	2.71	0.57
2:C:221:ASN:C	2:C:223:LYS:H	2.12	0.57
2:C:332:ASN:OD1	2:C:333:ALA:N	2.37	0.57
2:C:370:TYR:O	2:C:370:TYR:CG	2.56	0.57
2:C:500:ASP:O	2:C:503:ASP:HB2	2.05	0.57
2:C:647:ALA:HB3	2:C:916:THR:OG1	2.04	0.57
2:C:689:HIS:CG	2:C:836:LYS:HE3	2.39	0.57
2:D:131:ASN:O	2:D:133:CYS:N	2.37	0.57
2:D:201:ARG:O	2:E:815:TYR:HE1	1.86	0.57
2:D:412:TRP:CH2	2:D:414:ALA:HB2	2.40	0.57
2:E:44:LYS:HG3	2:E:45:PHE:CE1	2.40	0.57
2:E:460:ILE:O	2:E:481:VAL:HG22	2.04	0.57
2:E:462:PRO:HD3	2:E:481:VAL:HG13	1.86	0.57
2:E:718:ILE:HG12	2:E:738:TRP:NE1	2.18	0.57
2:F:543:LYS:HG2	2:F:544:ASN:OD1	2.05	0.57
2:G:317:SER:O	2:G:318:THR:C	2.48	0.57
2:H:54:HIS:C	2:H:55:ASP:OD1	2.48	0.57
2:H:375:ARG:HH11	2:H:507:PRO:HB3	1.69	0.57
2:H:627:TYR:HE1	6:P:24:ARG:HB3	1.70	0.57
2:H:792:LEU:O	2:H:792:LEU:CD1	2.51	0.57
2:J:409:GLY:O	2:J:410:GLN:C	2.45	0.57
2:K:246:PHE:HA	2:K:259:VAL:CG1	2.34	0.57
2:K:290:LEU:HD23	2:K:293:GLN:NE2	2.19	0.57
2:L:709:ARG:HD3	2:L:709:ARG:H	1.70	0.57
3:M:345:LEU:O	3:M:346:ALA:HB3	2.05	0.57
2:A:113:PHE:O	2:A:113:PHE:CG	2.58	0.57
2:A:324:LEU:HD21	2:A:909:ILE:CD1	2.35	0.57
2:A:546:LEU:HD11	2:C:39:PHE:HZ	1.69	0.57
2:A:678:VAL:O	2:A:678:VAL:HG23	2.05	0.57
2:A:680:TYR:CE1	2:A:890:TYR:HE1	2.22	0.57
2:B:64:LEU:CD1	2:C:709:ARG:HB2	2.35	0.57
2:B:188:TRP:O	2:B:188:TRP:CG	2.56	0.57
2:B:694:VAL:O	2:B:694:VAL:HG13	2.04	0.57
2:C:267:ILE:HG22	2:C:268:GLU:H	1.68	0.57
2:C:511:HIS:O	2:C:517:ARG:HD2	2.04	0.57
2:D:209:MET:HG2	2:D:209:MET:O	2.03	0.57
2:D:247:PHE:O	2:D:258:ALA:HB3	2.05	0.57
2:D:406:LYS:CB	2:D:410:GLN:CA	2.69	0.57
2:D:406:LYS:HG3	2:D:409:GLY:N	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:201:ARG:N	2:F:813:GLN:HE22	2.03	0.57
2:E:710:LEU:HD23	2:E:715:GLU:H	1.69	0.57
2:E:718:ILE:HG12	2:E:738:TRP:CD2	2.39	0.57
2:E:747:TYR:HE1	2:E:762:ASP:CB	2.18	0.57
2:F:426:GLU:OE2	2:F:427:SER:N	2.38	0.57
2:F:506:ASN:HB3	2:F:686:TYR:CE2	2.40	0.57
2:F:648:PHE:CE2	2:F:651:TRP:CE2	2.93	0.57
2:G:201:ARG:HD3	2:G:263:GLU:OE2	2.04	0.57
2:G:497:TRP:CE3	2:G:776:ARG:CG	2.86	0.57
2:G:744:LEU:HD13	2:G:749:ILE:O	2.05	0.57
2:H:70:PRO:HA	2:H:84:PHE:HD1	1.68	0.57
2:H:205:ASP:OD1	2:H:205:ASP:C	2.46	0.57
2:H:253:PRO:HG2	2:H:255:GLU:HB2	1.85	0.57
2:H:289:ASP:C	2:H:289:ASP:OD1	2.47	0.57
2:H:593:PHE:HA	2:I:751:TYR:CD2	2.40	0.57
2:H:811:GLU:HA	2:I:429:ASN:OD1	2.04	0.57
2:I:781:THR:HG22	2:I:787:TYR:CE2	2.40	0.57
2:J:100:TYR:CE1	2:J:534:GLN:CG	2.67	0.57
2:J:120:ALA:O	2:J:121:TYR:C	2.47	0.57
2:J:332:ASN:HB2	4:N:170:GLN:HE22	1.57	0.57
2:J:333:ALA:O	2:J:913:TYR:OH	2.23	0.57
2:J:545:LEU:HD12	2:J:546:LEU:H	1.69	0.57
2:K:70:PRO:HA	2:K:84:PHE:HD1	1.69	0.57
2:K:651:TRP:CZ3	2:K:696:ILE:HD13	2.40	0.57
2:L:114:LYS:O	2:L:114:LYS:HG3	2.05	0.57
2:L:202:VAL:O	2:L:202:VAL:CG2	2.48	0.57
2:L:653:PHE:O	2:L:654:THR:OG1	2.19	0.57
2:L:658:THR:HA	2:L:888:LEU:HD13	1.87	0.57
3:M:115:SER:HB2	3:M:502:VAL:HG13	1.87	0.57
3:M:219:THR:HG21	3:M:223:MET:SD	2.45	0.57
5:O:53:PHE:CZ	5:O:64:ALA:HB3	2.39	0.57
5:O:199:THR:HG22	5:O:201:ARG:N	2.19	0.57
7:T:70:ASN:HA	7:T:198:PHE:CZ	2.40	0.57
2:A:109:ARG:HD3	2:A:303:ILE:CG2	2.34	0.56
2:A:758:GLU:OE1	2:A:760:TYR:HE1	1.86	0.56
2:B:152:THR:OG1	2:B:153:ASN:N	2.37	0.56
2:B:370:TYR:N	2:B:370:TYR:CD1	2.70	0.56
2:B:540:PHE:HA	2:B:543:LYS:HG3	1.86	0.56
2:B:545:LEU:HD22	2:B:901:ILE:HD13	1.87	0.56
2:B:720:ARG:HD2	2:B:735:THR:HG23	1.86	0.56
2:C:155:ASN:HD21	2:C:158:ASN:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:LEU:H	2:C:838:LEU:HD12	1.70	0.56
2:D:125:ALA:CB	2:D:126:PRO:CD	2.09	0.56
2:D:130:PRO:O	2:D:130:PRO:HG2	2.04	0.56
2:D:334:VAL:HG21	2:D:542:ILE:HD11	1.87	0.56
2:D:483:VAL:CG2	2:D:805:MET:HA	2.23	0.56
2:D:636:VAL:CG1	2:D:889:LEU:HD23	2.34	0.56
2:D:821:TYR:CZ	2:F:219:PRO:HG2	2.40	0.56
2:E:161:GLN:HE21	2:E:167:THR:HA	1.69	0.56
2:E:537:GLN:HA	2:E:537:GLN:OE1	2.03	0.56
2:E:608:ARG:HG2	2:E:903:GLN:O	2.05	0.56
2:E:705:PRO:HD3	2:E:716:PHE:HE1	1.69	0.56
2:F:573:ASP:OD2	2:F:673:THR:HB	2.03	0.56
2:G:565:ILE:HD11	2:G:581:VAL:HG11	1.85	0.56
2:H:65:THR:HG21	2:I:711:LEU:HD21	1.87	0.56
2:H:94:LEU:C	2:H:94:LEU:HD23	2.30	0.56
2:H:177:TYR:HE2	2:H:261:TYR:CE2	2.23	0.56
2:H:219:PRO:O	2:H:219:PRO:CG	2.47	0.56
2:H:249:LEU:HD13	2:H:250:PRO:CG	2.34	0.56
2:H:265:VAL:HG12	2:H:266:SER:N	2.17	0.56
2:H:324:LEU:O	2:H:333:ALA:HB3	2.05	0.56
2:H:705:PRO:HB3	2:H:710:LEU:CD1	2.35	0.56
2:H:781:THR:HA	2:H:787:TYR:HD2	1.66	0.56
2:I:109:ARG:HH12	2:I:523:LEU:CB	2.17	0.56
2:I:565:ILE:HG13	2:I:566:LEU:H	1.70	0.56
2:I:899:VAL:HG23	2:I:913:TYR:CD1	2.40	0.56
2:I:904:PRO:CD	2:I:908:VAL:HG13	2.32	0.56
2:J:130:PRO:O	2:J:130:PRO:HG2	2.05	0.56
2:J:221:ASN:CA	2:K:788:GLN:OE1	2.53	0.56
2:J:284:THR:HG23	2:J:287:SER:CB	2.34	0.56
2:K:96:MET:HE1	2:K:554:TYR:OH	2.04	0.56
2:K:323:VAL:HG12	2:K:332:ASN:OD1	2.05	0.56
2:K:521:MET:HE2	2:L:496:ARG:N	2.20	0.56
2:K:912:VAL:HG23	7:T:40:MET:HE2	1.86	0.56
2:L:349:MET:HA	2:L:619:TYR:HD2	1.69	0.56
5:O:51:GLU:CB	5:O:54:ARG:HH12	2.18	0.56
6:Q:17:PHE:HD1	6:Q:18:SER:N	2.02	0.56
6:S:8:ASN:O	6:S:8:ASN:CG	2.46	0.56
7:T:3:LYS:HG2	7:T:4:GLU:H	1.70	0.56
2:A:730:ALA:HB1	2:C:361:SER:OG	2.04	0.56
2:A:792:LEU:O	2:A:793:PRO:C	2.45	0.56
2:A:904:PRO:HD2	2:A:908:VAL:CG1	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:57:THR:HG21	2:C:850:SER:OG	2.05	0.56
2:B:497:TRP:NE1	2:B:776:ARG:HE	2.03	0.56
2:B:740:LEU:O	2:B:744:LEU:HB2	2.05	0.56
2:B:863:GLN:HE21	5:O:59:ALA:H	1.53	0.56
2:C:64:LEU:HD11	2:C:594:PRO:HD3	1.87	0.56
2:C:121:TYR:O	2:C:122:ASN:C	2.46	0.56
2:C:348:LEU:C	2:C:350:LEU:H	2.13	0.56
2:C:715:GLU:O	2:C:716:PHE:C	2.48	0.56
2:D:729:VAL:HA	2:F:534:GLN:NE2	2.20	0.56
2:E:259:VAL:C	2:E:260:LEU:HD22	2.30	0.56
2:E:636:VAL:O	2:E:638:ILE:HG23	2.05	0.56
2:E:904:PRO:HD2	2:E:908:VAL:CG2	2.31	0.56
2:F:268:GLU:HB2	2:F:270:PRO:HD2	1.87	0.56
2:G:78:TYR:O	2:G:560:LYS:HG2	2.04	0.56
2:G:111:PRO:N	2:G:527:ARG:HH12	2.03	0.56
2:G:316:ASN:HA	2:G:336:ASP:OD1	2.05	0.56
2:G:495:ALA:N	2:I:525:ASN:HD21	2.03	0.56
2:G:901:ILE:CG2	2:G:909:ILE:HD13	2.34	0.56
2:H:46:ARG:HH11	2:H:46:ARG:HG2	1.70	0.56
2:H:215:SER:HB2	2:I:816:PRO:CA	2.35	0.56
2:H:290:LEU:C	2:H:292:THR:H	2.14	0.56
2:H:412:TRP:CZ2	2:I:245:GLN:NE2	2.72	0.56
2:H:497:TRP:HZ3	2:H:776:ARG:H	1.53	0.56
2:H:691:PHE:HB3	2:H:718:ILE:HD11	1.87	0.56
2:I:113:PHE:HB2	2:I:303:ILE:HD12	1.87	0.56
2:I:135:TRP:HZ2	2:I:291:LEU:HD11	1.70	0.56
2:J:220:THR:OG1	2:J:227:ALA:HA	2.05	0.56
2:J:246:PHE:N	2:J:246:PHE:HD1	2.01	0.56
2:J:349:MET:HE2	2:J:543:LYS:HZ3	1.68	0.56
2:J:430:ILE:N	2:L:810:ARG:HH12	2.03	0.56
2:K:249:LEU:HD23	2:K:257:LYS:CD	2.34	0.56
2:K:660:GLU:O	2:K:678:VAL:HG13	2.05	0.56
2:K:899:VAL:HG22	2:K:913:TYR:HD1	1.68	0.56
2:L:12:TYR:O	2:L:13:MET:HE2	2.05	0.56
2:L:176:THR:HG22	2:L:177:TYR:C	2.30	0.56
3:M:422:LEU:CD2	3:M:444:ARG:CZ	2.82	0.56
5:O:159:PRO:HG2	5:O:217:GLN:OE1	2.04	0.56
2:A:53:THR:OG1	2:A:54:HIS:N	2.32	0.56
2:A:76:THR:HG22	2:A:77:ALA:N	2.16	0.56
2:A:109:ARG:HH21	2:A:523:LEU:HD12	1.69	0.56
2:A:112:SER:O	2:A:301:ASN:ND2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:261:TYR:C	2:A:263:GLU:H	2.13	0.56
2:A:437:LEU:O	2:A:437:LEU:HD13	2.04	0.56
2:A:688:ASN:O	2:A:844:TRP:NE1	2.36	0.56
2:A:714:ASN:HD21	2:E:338:GLN:HB2	1.70	0.56
2:A:731:GLN:OE1	2:C:522:LEU:CD2	2.53	0.56
2:A:874:LEU:C	2:A:874:LEU:HD12	2.30	0.56
2:B:86:LEU:HD22	2:B:554:TYR:HD2	1.70	0.56
2:B:109:ARG:NH1	2:B:529:VAL:HG11	2.20	0.56
2:B:156:LYS:HG3	2:B:169:GLN:HE22	1.71	0.56
2:B:220:THR:O	2:B:221:ASN:C	2.48	0.56
2:B:251:SER:O	2:B:251:SER:OG	2.14	0.56
2:B:299:ARG:HH22	2:B:477:MET:HE3	1.71	0.56
2:B:308:ASN:HD21	2:B:350:LEU:HD21	1.69	0.56
2:B:348:LEU:O	2:B:351:ASP:HB2	2.04	0.56
2:B:375:ARG:HH12	2:B:838:LEU:HD11	1.70	0.56
2:B:663:SER:HB3	2:B:669:ASP:OD2	2.06	0.56
2:B:863:GLN:CG	5:O:59:ALA:HB2	2.26	0.56
2:C:154:ILE:HG23	2:C:197:LYS:CG	2.35	0.56
2:C:341:ASN:HB2	2:C:624:ASN:ND2	2.21	0.56
2:C:583:PHE:O	2:C:585:SER:N	2.38	0.56
2:C:603:LEU:HD22	2:C:603:LEU:C	2.26	0.56
2:C:704:TRP:H	2:C:705:PRO:HD3	1.66	0.56
2:C:906:ARG:O	2:C:906:ARG:HD3	2.06	0.56
2:C:919:SER:C	2:K:697:MET:HE1	2.30	0.56
2:D:96:MET:HE1	2:D:324:LEU:CD2	2.34	0.56
2:D:110:GLY:C	2:D:112:SER:H	2.12	0.56
2:D:325:ALA:O	2:D:553:THR:HG22	2.04	0.56
2:D:338:GLN:HE22	2:D:665:GLY:N	2.03	0.56
2:D:406:LYS:HB3	2:E:156:LYS:NZ	2.21	0.56
2:D:785:LYS:HB2	2:D:786:GLU:OE2	2.05	0.56
2:E:39:PHE:HZ	2:F:546:LEU:HD11	1.70	0.56
2:E:131:ASN:OD1	2:E:212:CYS:HA	2.06	0.56
2:E:146:GLN:O	2:E:147:ALA:HB2	2.05	0.56
2:E:147:ALA:HA	2:F:813:GLN:NE2	2.17	0.56
2:E:249:LEU:HD23	2:E:257:LYS:HE2	1.86	0.56
2:E:302:TYR:CE2	2:E:517:ARG:HG3	2.35	0.56
2:E:593:PHE:HD1	2:E:594:PRO:CD	2.18	0.56
2:E:704:TRP:O	2:E:705:PRO:C	2.48	0.56
2:E:796:HIS:O	2:E:796:HIS:CG	2.53	0.56
2:F:115:PRO:HA	2:F:302:TYR:CE1	2.40	0.56
2:F:131:ASN:H	2:F:131:ASN:HD22	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:152:THR:CB	2:F:196:GLN:HE22	2.17	0.56
2:F:388:ASN:CG	2:F:437:LEU:HD23	2.30	0.56
2:G:94:LEU:HD22	2:G:592:PHE:CZ	2.40	0.56
2:G:176:THR:HG23	2:G:261:TYR:HD2	1.70	0.56
2:G:252:THR:OG1	2:G:255:GLU:HG2	2.05	0.56
2:G:299:ARG:NH1	2:G:299:ARG:CG	2.64	0.56
2:G:855:MET:HB3	2:I:51:ALA:HB1	1.85	0.56
2:H:335:VAL:HG11	7:U:107:GLN:NE2	2.20	0.56
2:H:377:ILE:CG2	2:H:450:VAL:HG21	2.32	0.56
2:H:643:ARG:HH21	2:H:918:PHE:CA	2.18	0.56
2:H:686:TYR:CE2	2:H:687:LEU:HD21	2.41	0.56
2:H:914:LEU:O	2:H:915:ARG:HG2	2.05	0.56
2:I:181:PRO:CG	2:I:181:PRO:O	2.45	0.56
2:I:310:ILE:HG12	2:I:343:GLU:HG3	1.87	0.56
2:I:507:PRO:HG2	2:I:508:PHE:CE1	2.39	0.56
2:I:518:TYR:HA	2:I:521:MET:HG2	1.87	0.56
2:J:38:TYR:O	2:L:853:MET:HE1	2.04	0.56
2:J:67:ARG:HG3	2:J:589:TYR:HE1	1.70	0.56
2:J:114:LYS:HZ1	2:J:298:ASN:N	2.02	0.56
2:J:137:ASP:HB3	2:J:138:ASN:ND2	2.21	0.56
2:J:229:LEU:O	2:J:231:THR:N	2.37	0.56
2:J:279:ASP:OD1	2:J:464:ASN:HB2	2.05	0.56
2:J:310:ILE:HD11	2:J:343:GLU:O	2.04	0.56
2:J:379:ASN:ND2	2:J:491:VAL:O	2.38	0.56
2:J:744:LEU:HD21	2:J:750:GLY:HA3	1.87	0.56
2:J:887:THR:C	2:J:888:LEU:HD12	2.29	0.56
2:K:88:VAL:HG21	2:K:548:LEU:O	2.05	0.56
2:K:300:PRO:O	2:K:300:PRO:CG	2.40	0.56
2:K:435:ILE:HD11	2:L:390:CYS:HA	1.87	0.56
2:K:589:TYR:CE2	2:L:736:LYS:NZ	2.74	0.56
2:K:790:VAL:HG23	2:K:795:GLN:HG3	1.87	0.56
2:K:865:MET:CE	5:O:298:THR:HA	2.34	0.56
2:K:878:PHE:CD2	2:K:889:LEU:HD21	2.40	0.56
2:L:70:PRO:HA	2:L:84:PHE:CD1	2.40	0.56
2:L:710:LEU:H	2:L:710:LEU:CD2	2.19	0.56
3:M:139:ASN:OD1	3:M:166:LEU:CB	2.53	0.56
3:M:261:LEU:HD23	3:M:264:GLN:NE2	2.20	0.56
3:M:274:LEU:CD1	3:M:343:TRP:HA	2.35	0.56
5:O:57:PRO:CD	9:W:9:UNK:HA	2.35	0.56
5:O:102:ILE:HG23	5:O:103:TYR:N	2.20	0.56
5:O:220:TRP:HA	5:O:220:TRP:CE3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:261:TYR:O	5:O:262:LEU:C	2.48	0.56
6:P:35:VAL:HG12	6:P:36:MET:N	2.20	0.56
6:S:4:SER:O	6:S:4:SER:OG	2.23	0.56
7:T:64:THR:O	7:T:64:THR:HG23	2.04	0.56
2:A:824:ILE:HG13	2:A:825:GLY:N	2.19	0.56
2:A:878:PHE:HE2	2:A:889:LEU:HD21	1.70	0.56
2:B:776:ARG:NH2	2:B:834:GLN:OE1	2.38	0.56
2:C:213:TYR:HD1	2:C:214:GLY:N	2.04	0.56
2:C:306:ARG:O	2:C:307:ASP:C	2.48	0.56
2:C:603:LEU:O	2:C:603:LEU:CD1	2.53	0.56
2:E:50:VAL:O	2:E:50:VAL:CG1	2.52	0.56
2:E:188:TRP:CD1	2:F:292:THR:HG23	2.40	0.56
2:E:395:GLY:N	2:F:129:ALA:HB1	2.20	0.56
2:E:581:VAL:O	2:E:581:VAL:HG13	2.06	0.56
2:G:124:LEU:O	2:G:124:LEU:HD23	2.06	0.56
2:G:170:PRO:HB2	2:G:175:LYS:CB	2.34	0.56
2:G:355:ASP:OD1	2:G:357:SER:N	2.37	0.56
2:G:378:GLU:O	2:G:379:ASN:HB2	2.05	0.56
2:G:455:PRO:HD2	2:G:458:TYR:CD2	2.40	0.56
2:H:545:LEU:HA	2:H:616:PHE:CZ	2.41	0.56
2:H:843:MET:HE1	2:H:892:LEU:CD1	2.35	0.56
2:H:904:PRO:HD2	2:H:908:VAL:HG13	1.88	0.56
2:I:112:SER:HB2	2:I:474:TYR:CG	2.40	0.56
2:I:388:ASN:ND2	2:I:437:LEU:HB2	2.21	0.56
2:I:422:GLY:O	2:I:423:ALA:HB3	2.05	0.56
2:J:410:GLN:HG3	2:K:256:PRO:HB3	1.87	0.56
2:J:454:LEU:HB3	2:J:455:PRO:HD3	1.86	0.56
2:J:625:MET:SD	6:R:24:ARG:NH2	2.78	0.56
2:J:794:PHE:CD1	2:J:794:PHE:O	2.59	0.56
2:K:654:THR:O	2:K:890:TYR:HB3	2.05	0.56
2:L:818:ASN:OD1	2:L:819:TYR:N	2.39	0.56
5:O:186:SER:OG	5:O:202:GLN:N	2.37	0.56
5:O:265:LEU:HD23	5:O:265:LEU:H	1.68	0.56
1:8:13:HIS:NE2	2:A:353:LEU:HD21	2.20	0.56
2:A:303:ILE:HD11	2:A:574:LEU:HD21	1.87	0.56
2:A:336:ASP:CB	2:A:539:PHE:CE2	2.88	0.56
2:A:451:ALA:O	2:A:454:LEU:HG	2.06	0.56
2:A:680:TYR:HE1	2:A:890:TYR:HE1	1.53	0.56
2:A:719:LYS:HD2	2:A:837:PHE:HE1	1.70	0.56
2:A:896:PHE:HE1	2:C:15:ILE:HD11	1.62	0.56
2:B:25:SER:HG	2:C:612:ASN:CG	2.11	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:154:ILE:HG12	2:B:160:ILE:HD13	1.86	0.56
2:B:155:ASN:O	2:B:157:ASP:N	2.38	0.56
2:B:178:GLN:HG3	2:B:181:PRO:HG2	1.86	0.56
2:B:243:ASN:C	2:B:244:LEU:HD23	2.31	0.56
2:B:573:ASP:CG	2:B:673:THR:HA	2.31	0.56
2:B:626:LEU:HD23	2:B:888:LEU:CD2	2.35	0.56
2:B:797:ASN:ND2	2:B:797:ASN:C	2.47	0.56
2:B:834:GLN:O	2:B:835:LYS:HB2	2.06	0.56
2:B:865:MET:HE2	2:B:872:HIS:HE1	1.69	0.56
2:C:58:THR:HG22	2:C:594:PRO:HB3	1.88	0.56
2:C:311:GLY:C	2:C:313:MET:N	2.60	0.56
2:C:770:ASN:O	2:C:771:PHE:C	2.46	0.56
2:C:797:ASN:O	2:C:798:ASN:C	2.47	0.56
2:D:31:PHE:CE1	2:E:603:LEU:HD12	2.40	0.56
2:D:187:GLN:HB2	2:E:292:THR:HG22	1.88	0.56
2:D:529:VAL:O	2:D:529:VAL:HG23	2.06	0.56
2:D:822:PRO:HA	2:F:121:TYR:OH	2.06	0.56
2:E:28:LEU:HA	2:F:606:MET:CE	2.35	0.56
2:E:216:TYR:OH	2:E:218:LYS:HA	2.04	0.56
2:E:299:ARG:CZ	2:E:570:LEU:HD23	2.34	0.56
2:E:497:TRP:CH2	2:E:836:LYS:HB2	2.40	0.56
2:E:651:TRP:HE1	2:E:874:LEU:HD21	1.70	0.56
2:F:252:THR:OG1	2:F:253:PRO:N	2.33	0.56
2:G:127:LYS:HG3	2:G:213:TYR:CD2	2.40	0.56
2:G:188:TRP:CE3	2:H:809:MET:HE2	2.40	0.56
2:G:833:THR:HG21	2:I:530:PRO:HD2	1.86	0.56
2:H:331:LEU:HD12	2:L:92:ARG:NH2	2.19	0.56
2:H:547:LEU:C	2:H:548:LEU:HD22	2.31	0.56
2:H:622:ALA:HB2	2:H:894:GLU:HA	1.86	0.56
2:I:257:LYS:O	2:I:257:LYS:HD2	2.06	0.56
2:J:87:ALA:HA	2:J:551:SER:HA	1.86	0.56
2:J:191:GLU:OE2	2:J:191:GLU:HA	2.05	0.56
2:J:316:ASN:CG	2:J:342:THR:HG22	2.31	0.56
2:J:449:ASN:HD22	2:J:512:ARG:HH11	1.52	0.56
2:J:625:MET:HE1	6:R:24:ARG:NH2	2.21	0.56
2:K:107:LEU:HD23	2:K:107:LEU:C	2.30	0.56
2:K:246:PHE:CD1	2:K:259:VAL:CG2	2.76	0.56
2:K:367:VAL:CG2	2:K:764:MET:HE1	2.29	0.56
2:L:540:PHE:HA	2:L:543:LYS:HB2	1.86	0.56
2:L:702:VAL:HG12	2:L:703:SER:O	2.06	0.56
2:L:704:TRP:CD2	2:L:704:TRP:C	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:191:SER:O	5:O:192:GLY:C	2.48	0.56
7:U:87:THR:HG23	7:U:179:SER:HB2	1.88	0.56
1:5:17:PRO:O	1:5:17:PRO:CG	2.51	0.56
2:A:101:PHE:HB2	2:A:535:VAL:HG22	1.88	0.56
2:A:109:ARG:O	2:A:527:ARG:HG2	2.05	0.56
2:A:331:LEU:O	2:A:331:LEU:HD23	2.06	0.56
2:A:593:PHE:O	2:A:595:MET:N	2.38	0.56
2:B:269:ALA:N	2:B:270:PRO:CD	2.46	0.56
2:B:539:PHE:O	2:B:543:LYS:N	2.36	0.56
2:B:661:THR:HG21	2:B:680:TYR:HB3	1.87	0.56
2:B:764:MET:HE2	2:B:841:ARG:NH1	2.19	0.56
2:C:30:GLN:O	2:C:32:ALA:N	2.38	0.56
2:C:150:ILE:HG22	2:C:150:ILE:O	2.04	0.56
2:C:355:ASP:OD1	2:C:355:ASP:C	2.46	0.56
2:C:605:ALA:CB	7:T:89:VAL:HG11	2.34	0.56
2:C:899:VAL:HG23	2:C:912:VAL:O	2.06	0.56
2:D:64:LEU:O	2:D:591:ASN:HA	2.06	0.56
2:D:298:ASN:HB3	2:D:478:ASN:HD21	1.70	0.56
2:E:798:ASN:O	2:E:801:PHE:HB2	2.06	0.56
2:F:269:ALA:H	2:F:270:PRO:HD3	1.65	0.56
2:F:292:THR:O	2:F:292:THR:CG2	2.51	0.56
2:F:348:LEU:HD12	2:F:348:LEU:O	2.06	0.56
2:F:610:ASP:HA	2:F:902:HIS:HD2	1.68	0.56
2:F:721:THR:HA	10:Y:3:UNK:CB	2.35	0.56
2:F:887:THR:HG22	2:F:888:LEU:N	2.18	0.56
2:G:114:LYS:HZ2	2:G:298:ASN:HB2	1.70	0.56
2:G:608:ARG:HH22	2:G:906:ARG:CA	2.17	0.56
2:G:660:GLU:HB2	2:G:674:TYR:CE1	2.40	0.56
2:G:771:PHE:O	2:G:773:PRO:HD3	2.06	0.56
2:G:845:ARG:C	2:G:846:ILE:HG13	2.31	0.56
2:G:924:THR:O	2:G:925:THR:C	2.49	0.56
2:H:161:GLN:H	2:H:197:LYS:HZ2	1.53	0.56
2:H:255:GLU:N	2:H:256:PRO:CD	2.67	0.56
2:H:327:GLN:HB2	2:H:551:SER:OG	2.06	0.56
2:J:208:PRO:HD2	2:J:267:ILE:CG2	2.30	0.56
2:J:505:VAL:O	2:J:505:VAL:HG13	2.06	0.56
2:J:572:ASN:O	2:J:675:SER:OG	2.21	0.56
2:J:625:MET:CE	6:R:24:ARG:NH2	2.69	0.56
2:K:13:MET:CE	2:L:914:LEU:HD23	2.35	0.56
2:K:65:THR:CG2	2:L:711:LEU:HD11	2.35	0.56
2:K:254:ASN:C	2:K:255:GLU:HG3	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:621:CYS:HB3	2:K:649:ARG:NH1	2.19	0.56
2:K:895:VAL:CG1	2:K:917:PRO:HG2	2.11	0.56
2:L:74:GLU:CB	2:L:81:LYS:HB3	2.32	0.56
2:L:134:GLU:HB2	2:L:204:LYS:O	2.05	0.56
2:L:136:LYS:HD3	2:L:140:LYS:CG	2.25	0.56
2:L:207:THR:HG23	2:L:264:ASN:OD1	2.06	0.56
2:L:349:MET:HE1	2:L:543:LYS:CD	2.35	0.56
3:M:55:TYR:OH	3:M:107:GLN:OE1	2.17	0.56
3:M:277:GLY:N	3:M:346:ALA:HB2	2.21	0.56
3:M:330:LEU:CD2	3:M:335:GLN:HG2	2.34	0.56
4:N:175:LEU:CD2	4:N:176:MET:HE3	2.35	0.56
5:O:256:ILE:HG13	5:O:257:SER:H	1.71	0.56
7:T:64:THR:HG22	7:T:197:GLU:OE1	2.06	0.56
2:A:22:GLU:N	2:A:22:GLU:OE1	2.38	0.56
2:A:32:ALA:HB2	2:A:41:LEU:HD12	1.86	0.56
2:A:129:ALA:HB1	2:A:130:PRO:HD2	1.77	0.56
2:A:216:TYR:O	2:A:216:TYR:CG	2.44	0.56
2:A:261:TYR:O	2:A:263:GLU:N	2.34	0.56
2:A:347:GLN:OE1	2:A:682:ASP:HA	2.06	0.56
2:A:506:ASN:HB2	2:A:509:ASN:HD21	1.70	0.56
2:B:114:LYS:HD2	2:B:271:ASP:HB3	1.87	0.56
2:B:442:TRP:O	2:B:443:ARG:C	2.47	0.56
2:B:921:GLY:O	2:B:923:ALA:N	2.29	0.56
2:D:364:ASN:O	2:D:365:GLN:C	2.47	0.56
2:E:218:LYS:HE3	2:E:220:THR:CG2	2.36	0.56
2:E:647:ALA:H	2:E:917:PRO:CG	2.18	0.56
2:E:703:SER:HB3	2:E:714:ASN:HB2	1.88	0.56
2:F:275:VAL:O	2:F:275:VAL:CG2	2.50	0.56
2:F:343:GLU:HB3	2:F:681:LEU:HB2	1.88	0.56
2:F:547:LEU:C	2:F:548:LEU:HD23	2.31	0.56
2:F:797:ASN:O	2:F:798:ASN:C	2.46	0.56
2:F:915:ARG:HB3	2:F:919:SER:HA	1.87	0.56
2:G:107:LEU:HD13	2:G:305:PHE:HE1	1.71	0.56
2:G:377:ILE:CD1	2:G:446:LEU:HD21	2.36	0.56
2:G:377:ILE:HG13	2:G:446:LEU:HD21	1.88	0.56
2:G:898:VAL:CG1	2:I:13:MET:HE3	2.35	0.56
2:H:250:PRO:CD	2:H:252:THR:H	2.15	0.56
2:H:662:PRO:HB3	2:H:672:PHE:CD2	2.40	0.56
2:H:780:ASN:HD22	2:H:783:THR:CB	2.19	0.56
2:H:899:VAL:HG22	2:H:913:TYR:CD1	2.34	0.56
2:H:900:ARG:O	2:H:901:ILE:HD13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:185:GLN:O	2:I:186:THR:C	2.48	0.56
2:I:207:THR:HG21	2:I:265:VAL:CG2	2.34	0.56
2:I:471:LYS:HA	2:I:476:TYR:CD2	2.40	0.56
2:I:483:VAL:HA	2:I:805:MET:O	2.06	0.56
2:J:99:THR:O	2:J:99:THR:OG1	2.21	0.56
2:J:154:ILE:HG13	2:J:197:LYS:HE2	1.88	0.56
2:J:627:TYR:HD2	2:J:638:ILE:HG21	1.71	0.56
2:J:655:ARG:HD3	2:J:690:THR:OG1	2.06	0.56
2:J:762:ASP:OD1	2:J:769:ARG:HB2	2.06	0.56
2:K:226:GLN:NE2	2:L:796:HIS:HE1	2.04	0.56
2:K:443:ARG:O	2:K:443:ARG:HD2	2.05	0.56
2:K:629:ILE:HD11	2:K:636:VAL:CG1	2.35	0.56
2:K:655:ARG:NH2	2:K:887:THR:HG21	2.21	0.56
2:L:309:PHE:CE2	2:L:533:ILE:HD12	2.41	0.56
2:L:341:ASN:HB2	2:L:624:ASN:HD22	1.71	0.56
2:L:704:TRP:O	2:L:705:PRO:C	2.41	0.56
2:L:827:THR:HG22	2:L:827:THR:O	2.06	0.56
6:R:31:VAL:O	6:R:31:VAL:HG13	2.06	0.56
2:A:306:ARG:HH21	2:A:567:GLN:HB3	1.69	0.56
2:A:559:ARG:HH11	2:A:564:MET:HG2	1.70	0.56
2:A:621:CYS:SG	2:A:896:PHE:HA	2.46	0.56
2:A:916:THR:OG1	2:A:917:PRO:CD	2.49	0.56
2:B:130:PRO:O	2:B:212:CYS:SG	2.63	0.56
2:B:135:TRP:HB3	2:B:291:LEU:HD21	1.88	0.56
2:B:299:ARG:HB3	2:B:300:PRO:O	2.05	0.56
2:C:379:ASN:HB3	2:C:494:GLY:H	1.71	0.56
2:C:497:TRP:CD1	2:C:776:ARG:HE	2.23	0.56
2:D:382:VAL:CB	2:D:439:ALA:HA	2.36	0.56
2:D:386:LEU:CD2	2:F:443:ARG:HG2	2.35	0.56
2:D:409:GLY:O	2:D:411:THR:N	2.39	0.56
2:D:793:PRO:HB3	2:D:805:MET:HE3	1.88	0.56
2:E:174:ASP:OD2	2:E:223:LYS:HB3	2.06	0.56
2:E:294:GLN:HE22	2:E:808:THR:CA	2.19	0.56
2:E:308:ASN:OD1	2:E:365:GLN:HG2	2.06	0.56
2:E:349:MET:HE1	2:E:543:LYS:CE	2.36	0.56
2:E:440:ASN:ND2	2:F:388:ASN:HA	2.21	0.56
2:E:447:TYR:CE1	2:E:452:LEU:HB3	2.41	0.56
2:E:804:TYR:O	2:E:805:MET:HB2	2.05	0.56
2:E:895:VAL:CG1	2:E:917:PRO:CB	2.73	0.56
2:F:115:PRO:O	2:F:115:PRO:HG2	2.06	0.56
2:F:302:TYR:CE2	2:F:517:ARG:HG3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:656:LEU:HD11	2:F:890:TYR:HD2	1.71	0.56
2:F:662:PRO:HB2	2:F:664:LEU:HD21	1.88	0.56
2:G:50:VAL:HG22	2:G:51:ALA:N	2.20	0.56
2:G:136:LYS:CG	2:G:141:ILE:HG23	2.35	0.56
2:G:174:ASP:CG	2:G:175:LYS:N	2.64	0.56
2:G:344:LEU:CD2	2:G:348:LEU:HG	2.36	0.56
2:G:527:ARG:HG3	2:G:527:ARG:NH1	2.20	0.56
2:G:794:PHE:HB3	2:I:224:GLY:H	1.70	0.56
2:G:874:LEU:HD21	2:G:876:MET:HE2	1.88	0.56
2:H:876:MET:HE2	2:H:878:PHE:HE1	1.71	0.56
2:I:94:LEU:HD12	2:I:592:PHE:CE1	2.40	0.56
2:I:113:PHE:CE1	2:I:115:PRO:HD3	2.41	0.56
2:I:336:ASP:HB3	2:I:539:PHE:CE2	2.41	0.56
2:I:404:GLY:O	2:I:415:ASP:HA	2.05	0.56
2:I:732:CYS:HA	2:I:835:LYS:HD3	1.87	0.56
2:J:8:PRO:C	7:T:47:ILE:HD11	2.30	0.56
2:J:113:PHE:CE1	2:J:115:PRO:HB3	2.41	0.56
2:J:201:ARG:NE	2:J:263:GLU:OE2	2.39	0.56
2:J:228:SER:O	2:J:241:ASP:N	2.39	0.56
2:J:386:LEU:N	2:J:386:LEU:CD2	2.44	0.56
2:J:442:TRP:HD1	2:J:489:THR:HG22	1.71	0.56
2:K:70:PRO:HG2	2:K:73:ARG:NH2	2.21	0.56
2:K:548:LEU:HB3	2:K:608:ARG:HH21	1.69	0.56
2:K:899:VAL:HG22	2:K:913:TYR:CE1	2.40	0.56
5:O:216:LEU:C	5:O:218:GLY:N	2.64	0.56
6:P:41:ASP:OD1	6:P:43:ARG:HG3	2.06	0.56
1:8:30:LEU:CD2	2:C:37:THR:HG21	2.35	0.56
2:A:497:TRP:CE2	2:A:836:LYS:HD3	2.40	0.56
2:A:516:LEU:HA	2:A:519:ARG:NH1	2.20	0.56
2:A:603:LEU:HD23	2:A:607:LEU:HD12	1.88	0.56
2:A:604:GLU:OE2	2:A:608:ARG:NE	2.39	0.56
2:A:653:PHE:CE2	2:A:846:ILE:HD11	2.41	0.56
2:A:784:TYR:CZ	2:A:829:VAL:HG12	2.41	0.56
2:B:211:PRO:O	2:B:211:PRO:CG	2.48	0.56
2:B:763:ARG:HG3	2:B:764:MET:H	1.70	0.56
2:B:797:ASN:HB2	2:B:819:TYR:CE1	2.41	0.56
2:B:863:GLN:O	2:B:866:LEU:HD13	2.06	0.56
2:C:365:GLN:O	2:C:365:GLN:HG2	2.06	0.56
2:C:810:ARG:O	2:C:810:ARG:CD	2.54	0.56
2:C:861:LEU:CD1	2:C:864:ASN:HD22	2.19	0.56
2:E:18:GLN:NE2	2:E:22:GLU:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:126:PRO:C	2:E:128:THR:H	2.13	0.56
2:E:201:ARG:O	2:F:815:TYR:HE1	1.89	0.56
2:E:275:VAL:HG11	2:E:807:PRO:CG	2.35	0.56
2:E:441:LEU:HD23	2:E:441:LEU:C	2.31	0.56
2:E:643:ARG:HG3	2:E:644:ASN:H	1.71	0.56
2:E:695:SER:HB2	2:E:877:THR:HG22	1.87	0.56
2:E:739:PHE:C	2:E:741:ILE:N	2.61	0.56
2:E:802:VAL:HG13	2:E:803:GLY:N	2.20	0.56
2:F:218:LYS:NZ	2:F:218:LYS:HB2	2.21	0.56
2:F:276:TYR:O	2:F:277:LYS:C	2.45	0.56
2:G:221:ASN:OD1	2:G:223:LYS:HB3	2.05	0.56
2:G:250:PRO:HA	2:I:421:ARG:NH1	2.20	0.56
2:G:827:THR:HG21	2:I:268:GLU:OE2	2.05	0.56
2:G:896:PHE:HE2	2:I:15:ILE:CD1	2.19	0.56
2:H:67:ARG:NE	2:H:589:TYR:OH	2.39	0.56
2:H:257:LYS:O	2:H:257:LYS:CG	2.52	0.56
2:H:858:LEU:O	2:H:858:LEU:HD23	2.06	0.56
2:I:405:ILE:C	2:I:407:ALA:N	2.63	0.56
2:J:100:TYR:HB2	2:J:363:TRP:HH2	1.71	0.56
2:J:222:GLU:O	2:J:222:GLU:CG	2.54	0.56
2:J:306:ARG:HH12	2:J:567:GLN:CA	2.19	0.56
2:K:323:VAL:HG12	2:K:332:ASN:ND2	2.20	0.56
2:K:804:TYR:CD1	2:K:805:MET:HG2	2.40	0.56
2:L:70:PRO:HA	2:L:84:PHE:HD1	1.71	0.56
2:L:203:LEU:N	2:L:203:LEU:CD1	2.68	0.56
2:L:294:GLN:OE1	2:L:808:THR:HA	2.05	0.56
2:L:895:VAL:CG1	2:L:917:PRO:HG2	2.35	0.56
5:O:193:PRO:O	5:O:194:ASP:C	2.47	0.56
2:B:8:PRO:HG2	2:B:11:SER:HB3	1.86	0.56
2:B:122:ASN:N	2:C:490:TYR:OH	2.34	0.56
2:B:171:ILE:O	2:B:173:ALA:N	2.39	0.56
2:B:311:GLY:O	2:B:559:ARG:HD2	2.06	0.56
2:B:348:LEU:HB3	2:B:619:TYR:CE2	2.40	0.56
2:B:624:ASN:ND2	2:B:890:TYR:OH	2.40	0.56
2:B:648:PHE:HE2	2:B:651:TRP:CD2	2.23	0.56
2:C:30:GLN:C	2:C:32:ALA:H	2.13	0.56
2:C:189:ASN:C	2:C:191:GLU:N	2.61	0.56
2:C:298:ASN:HB3	2:C:478:ASN:HD22	1.70	0.56
2:C:327:GLN:O	2:C:328:ALA:HB2	2.05	0.56
2:C:346:TYR:CD1	2:C:350:LEU:HD11	2.40	0.56
2:C:746:HIS:CD2	2:C:845:ARG:HH21	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:809:MET:HE2	2:C:810:ARG:HG3	1.87	0.56
2:D:417:ASN:O	2:D:417:ASN:CG	2.47	0.56
2:D:432:ALA:HB2	2:F:810:ARG:NH2	2.20	0.56
2:D:565:ILE:HG13	2:D:566:LEU:N	2.20	0.56
2:E:307:ASP:CG	2:E:356:ARG:HH22	2.14	0.56
2:E:312:LEU:CD1	2:E:565:ILE:HB	2.35	0.56
2:E:402:TYR:O	2:F:249:LEU:HB3	2.05	0.56
2:E:487:LEU:CD2	2:E:491:VAL:HG21	2.36	0.56
2:E:741:ILE:HD12	2:E:852:PHE:CE2	2.41	0.56
2:F:171:ILE:CG2	2:F:175:LYS:HG3	2.36	0.56
2:F:202:VAL:CG2	2:F:202:VAL:O	2.54	0.56
2:F:309:PHE:HE1	2:F:364:ASN:HB2	1.69	0.56
2:F:497:TRP:CD2	2:F:776:ARG:HG2	2.41	0.56
2:F:662:PRO:HD3	2:F:678:VAL:CG2	2.29	0.56
2:F:678:VAL:O	2:F:678:VAL:HG13	2.05	0.56
2:F:702:VAL:HG12	2:F:703:SER:H	1.70	0.56
2:F:735:THR:C	2:F:737:ASP:N	2.62	0.56
2:G:173:ALA:HB1	2:G:221:ASN:ND2	2.19	0.56
2:G:390:CYS:CA	2:I:435:ILE:CD1	2.83	0.56
2:H:452:LEU:HD12	2:H:482:ALA:HB3	1.87	0.56
2:H:521:MET:HE2	2:I:495:ALA:C	2.31	0.56
2:H:558:PHE:HD2	2:H:583:PHE:HE2	1.54	0.56
2:H:712:THR:HG21	2:H:715:GLU:HB2	1.88	0.56
2:I:103:ILE:CD1	2:I:312:LEU:HD13	2.36	0.56
2:I:118:GLY:O	2:I:297:PRO:HB3	2.05	0.56
2:I:156:LYS:HD2	2:I:246:PHE:CE2	2.37	0.56
2:I:899:VAL:HG23	2:I:913:TYR:HD1	1.70	0.56
2:J:201:ARG:O	2:K:815:TYR:HE1	1.89	0.56
2:J:349:MET:HE2	2:J:543:LYS:HZ2	1.71	0.56
2:J:408:ASN:CG	2:J:408:ASN:O	2.49	0.56
2:K:664:LEU:HD13	2:K:680:TYR:OH	2.06	0.56
2:L:172:TYR:N	2:L:172:TYR:HD1	2.04	0.56
2:L:272:THR:HG23	2:L:296:ALA:O	2.06	0.56
2:L:321:MET:HE1	2:L:336:ASP:H	1.70	0.56
2:L:344:LEU:HD23	2:L:344:LEU:C	2.31	0.56
3:M:130:PRO:HB3	3:M:170:ASN:HB2	1.87	0.56
3:M:356:VAL:HG12	3:M:360:THR:OG1	2.05	0.56
3:M:374:VAL:CG2	3:M:405:LEU:HD23	1.95	0.56
7:T:101:MET:HE3	7:T:107:GLN:OE1	2.05	0.56
2:A:83:ARG:CB	2:A:555:GLU:HB2	2.36	0.55
2:A:655:ARG:HH11	2:A:887:THR:HG21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:751:TYR:HE2	2:C:594:PRO:CD	2.18	0.55
2:A:779:VAL:HG12	2:A:829:VAL:CG2	2.23	0.55
2:B:371:ASP:OD1	2:B:371:ASP:C	2.49	0.55
2:C:57:THR:N	2:C:596:ALA:HB2	2.13	0.55
2:C:301:ASN:OD1	2:C:301:ASN:N	2.39	0.55
2:C:375:ARG:HE	2:C:507:PRO:HG3	1.71	0.55
2:C:451:ALA:O	2:C:452:LEU:C	2.47	0.55
2:C:737:ASP:O	2:C:741:ILE:HD11	2.06	0.55
2:C:787:TYR:O	2:C:788:GLN:C	2.47	0.55
2:C:861:LEU:HD12	2:C:864:ASN:CB	2.35	0.55
2:D:391:PHE:HE2	2:F:801:PHE:CB	2.17	0.55
2:D:809:MET:CE	2:D:810:ARG:HG2	2.24	0.55
2:E:116:TYR:HE2	2:F:824:ILE:HG13	1.70	0.55
2:E:323:VAL:HG22	2:E:325:ALA:H	1.70	0.55
2:E:513:ASN:CG	2:E:516:LEU:HB2	2.31	0.55
2:E:799:SER:OG	2:E:800:GLY:N	2.34	0.55
2:F:435:ILE:HG22	2:F:437:LEU:HD22	1.88	0.55
2:F:475:ALA:HA	2:F:478:ASN:HD21	1.71	0.55
2:F:540:PHE:HA	2:F:543:LYS:HE2	1.87	0.55
2:F:559:ARG:HD3	2:F:564:MET:SD	2.46	0.55
2:F:563:ASN:HD21	2:F:574:LEU:CB	2.18	0.55
2:F:810:ARG:H	2:F:810:ARG:CD	2.18	0.55
2:G:176:THR:HG21	2:G:201:ARG:CG	2.35	0.55
2:G:474:TYR:CE1	2:G:478:ASN:HB3	2.41	0.55
2:H:40:SER:C	2:H:41:LEU:HD23	2.31	0.55
2:H:94:LEU:HB2	2:H:592:PHE:CE1	2.41	0.55
2:H:174:ASP:N	2:H:176:THR:HG23	2.20	0.55
2:H:182:GLN:HG2	2:H:185:GLN:H	1.70	0.55
2:H:229:LEU:O	2:H:229:LEU:CG	2.48	0.55
2:H:263:GLU:O	2:H:264:ASN:C	2.47	0.55
2:H:758:GLU:OE1	2:H:758:GLU:N	2.33	0.55
2:I:249:LEU:CD2	2:I:251:SER:H	2.20	0.55
2:I:399:THR:HG21	2:I:424:GLU:HB3	1.88	0.55
2:I:442:TRP:HD1	2:I:489:THR:CG2	2.16	0.55
2:I:573:ASP:OD2	2:I:576:VAL:HG23	2.05	0.55
2:J:210:LEU:HD13	2:J:269:ALA:CB	2.36	0.55
2:J:402:TYR:OH	2:K:249:LEU:HD22	2.07	0.55
2:J:409:GLY:H	2:J:411:THR:CB	2.18	0.55
2:J:488:ASP:O	2:J:491:VAL:HG12	2.06	0.55
2:J:632:ASN:HB2	6:Q:10:VAL:HA	1.88	0.55
2:J:770:ASN:HD22	2:J:841:ARG:HB3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:55:ASP:O	2:K:599:THR:HG21	2.06	0.55
2:K:276:TYR:CZ	2:K:278:PRO:HG3	2.40	0.55
2:K:356:ARG:NH1	2:K:367:VAL:HA	2.20	0.55
2:K:382:VAL:CG1	2:K:439:ALA:HA	2.21	0.55
2:K:447:TYR:HD2	2:L:386:LEU:HD11	1.68	0.55
2:K:565:ILE:C	2:K:566:LEU:HD23	2.32	0.55
2:L:39:PHE:CE2	2:L:41:LEU:HD11	2.40	0.55
2:L:455:PRO:HG2	2:L:458:TYR:CE1	2.41	0.55
2:L:545:LEU:HD12	2:L:614:GLN:HE21	1.71	0.55
3:M:124:ILE:CG1	3:M:460:LEU:HD23	2.22	0.55
3:M:221:LEU:CD1	3:M:336:ASN:HA	2.29	0.55
6:S:43:ARG:CG	6:S:44:PRO:HD3	2.34	0.55
7:T:81:GLN:HE22	7:T:185:ARG:N	2.04	0.55
2:A:277:LYS:HE3	2:A:465:ILE:N	2.20	0.55
2:A:516:LEU:HD21	2:A:567:GLN:CG	2.37	0.55
2:A:777:GLN:HA	2:A:833:THR:HA	1.89	0.55
2:B:139:ASN:O	2:B:141:ILE:N	2.40	0.55
2:B:140:LYS:O	2:B:141:ILE:C	2.49	0.55
2:B:171:ILE:HG12	2:B:174:ASP:CB	2.36	0.55
2:B:340:ARG:HD2	2:B:897:ASP:OD2	2.06	0.55
2:B:780:ASN:ND2	2:B:783:THR:HB	2.21	0.55
2:B:891:VAL:HG11	2:B:893:PHE:CE1	2.42	0.55
2:C:392:PRO:O	2:C:392:PRO:CG	2.43	0.55
2:C:905:HIS:HB2	2:C:908:VAL:HG12	1.88	0.55
2:D:223:LYS:HB2	2:D:223:LYS:HZ2	1.62	0.55
2:D:604:GLU:O	2:D:608:ARG:HG3	2.06	0.55
2:D:718:ILE:HG22	2:D:719:LYS:N	2.20	0.55
2:E:199:ALA:HB1	2:E:259:VAL:O	2.06	0.55
2:E:220:THR:OG1	2:E:227:ALA:O	2.22	0.55
2:E:638:ILE:HD11	2:E:876:MET:HG3	1.88	0.55
2:F:625:MET:HB2	2:F:891:VAL:HG13	1.88	0.55
2:F:743:MET:HE1	2:F:768:PHE:HB2	1.87	0.55
2:F:804:TYR:O	2:F:805:MET:HE2	2.06	0.55
2:G:495:ALA:HB2	2:I:525:ASN:ND2	2.21	0.55
2:G:714:ASN:OD1	2:G:714:ASN:N	2.32	0.55
2:H:114:LYS:NZ	2:H:300:PRO:HA	2.22	0.55
2:H:157:ASP:C	2:H:159:GLY:H	2.10	0.55
2:H:332:ASN:OD1	2:H:333:ALA:N	2.39	0.55
2:I:46:ARG:HG3	2:I:46:ARG:NH1	2.21	0.55
2:I:309:PHE:HE1	2:I:364:ASN:HD22	1.53	0.55
2:I:399:THR:CG2	2:I:424:GLU:HB3	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:740:LEU:HD23	2:I:740:LEU:C	2.31	0.55
2:J:175:LYS:NZ	2:J:175:LYS:HA	2.22	0.55
2:J:383:GLU:OE2	2:L:512:ARG:CD	2.54	0.55
2:J:449:ASN:ND2	2:J:512:ARG:HG2	2.21	0.55
2:J:547:LEU:C	2:J:548:LEU:HD22	2.30	0.55
2:K:350:LEU:HB3	2:K:356:ARG:HD2	1.88	0.55
2:K:764:MET:HB3	2:K:841:ARG:HH21	1.71	0.55
2:K:813:GLN:N	2:K:813:GLN:OE1	2.39	0.55
2:L:197:LYS:N	2:L:197:LYS:CE	2.70	0.55
2:L:335:VAL:HG22	2:L:913:TYR:CE1	2.41	0.55
2:L:531:PHE:HD2	2:L:533:ILE:HG23	1.70	0.55
3:M:125:LEU:HD11	3:M:491:VAL:HG11	1.88	0.55
6:P:5:MET:HE1	6:Q:16:VAL:CG1	2.36	0.55
6:R:19:PRO:O	6:R:20:TYR:CG	2.59	0.55
7:T:44:VAL:O	7:T:47:ILE:HG22	2.05	0.55
7:T:194:PHE:HE1	7:T:198:PHE:HB2	1.68	0.55
1:2:16:ARG:HB3	1:2:17:PRO:HD3	1.88	0.55
1:3:19:MET:SD	1:3:25:ILE:HG23	2.47	0.55
1:6:11:PRO:HD2	2:J:617:ASN:CG	2.30	0.55
2:A:248:ALA:O	2:A:249:LEU:C	2.50	0.55
2:B:54:HIS:NE2	7:T:223:ASP:OD2	2.39	0.55
2:B:187:GLN:HB3	2:C:809:MET:SD	2.47	0.55
2:B:268:GLU:O	2:B:269:ALA:HB2	2.07	0.55
2:B:307:ASP:OD1	2:B:519:ARG:NH1	2.36	0.55
2:B:367:VAL:CG1	2:B:764:MET:HE1	2.34	0.55
2:B:443:ARG:O	2:B:446:LEU:N	2.28	0.55
2:B:725:GLU:HG2	2:B:727:TYR:CD2	2.41	0.55
2:D:268:GLU:O	2:D:269:ALA:HB2	2.05	0.55
2:D:315:TYR:CE2	2:D:538:LYS:HB2	2.41	0.55
2:D:344:LEU:O	2:D:344:LEU:HD12	2.07	0.55
2:D:376:ILE:CD1	2:D:772:GLN:HG3	2.36	0.55
2:E:135:TRP:HZ3	2:E:137:ASP:HB3	1.72	0.55
2:E:279:ASP:OD2	2:E:464:ASN:CB	2.49	0.55
2:E:492:ASN:OD1	2:E:776:ARG:NH2	2.38	0.55
2:E:549:PRO:CG	2:E:604:GLU:HG3	2.35	0.55
2:F:375:ARG:HH11	2:F:507:PRO:HG3	1.71	0.55
2:F:452:LEU:HD23	2:F:482:ALA:HB3	1.88	0.55
2:F:539:PHE:O	2:F:543:LYS:HB2	2.05	0.55
2:F:848:PHE:CE1	2:F:861:LEU:HG	2.42	0.55
2:G:61:SER:CA	2:H:707:ASN:ND2	2.69	0.55
2:G:144:ARG:NE	2:G:144:ARG:HA	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:202:VAL:HG23	2:G:260:LEU:HD22	1.88	0.55
2:G:226:GLN:NE2	2:H:818:ASN:OD1	2.39	0.55
2:H:146:GLN:O	2:I:813:GLN:NE2	2.39	0.55
2:H:279:ASP:O	2:H:281:ALA:N	2.39	0.55
2:H:350:LEU:HD12	2:H:356:ARG:NH1	2.22	0.55
2:H:876:MET:CE	2:H:878:PHE:HE1	2.19	0.55
2:I:335:VAL:HB	2:I:913:TYR:HE2	1.71	0.55
2:J:7:MET:HB3	2:J:8:PRO:HD3	1.87	0.55
2:J:28:LEU:HB2	2:K:606:MET:CE	2.35	0.55
2:J:777:GLN:HB3	2:J:831:SER:HB3	1.88	0.55
2:K:14:HIS:CE1	2:L:900:ARG:HH21	2.24	0.55
2:K:208:PRO:HA	2:K:287:SER:N	2.20	0.55
2:K:253:PRO:O	2:K:254:ASN:C	2.49	0.55
2:K:290:LEU:HG	2:K:293:GLN:CG	2.31	0.55
2:K:410:GLN:OE1	2:K:410:GLN:HA	2.04	0.55
2:K:512:ARG:NH2	2:L:383:GLU:OE2	2.39	0.55
2:L:340:ARG:C	2:L:624:ASN:HD21	2.13	0.55
5:O:219:MET:CB	5:O:262:LEU:HD21	2.29	0.55
7:T:83:ASN:OD1	7:T:83:ASN:O	2.25	0.55
2:A:350:LEU:O	2:A:356:ARG:HG3	2.06	0.55
2:A:565:ILE:HG13	2:A:566:LEU:N	2.21	0.55
2:B:276:TYR:CZ	2:B:278:PRO:HD3	2.41	0.55
2:B:487:LEU:N	2:B:487:LEU:HD12	2.21	0.55
2:B:655:ARG:NH1	2:B:883:MET:SD	2.79	0.55
2:B:686:TYR:HA	2:B:840:ASP:OD1	2.07	0.55
2:B:863:GLN:HE21	5:O:59:ALA:N	2.05	0.55
2:C:529:VAL:O	2:C:529:VAL:HG23	2.05	0.55
2:C:606:MET:CE	7:T:177:LEU:HD13	2.36	0.55
2:D:58:THR:OG1	2:D:595:MET:O	2.24	0.55
2:D:406:LYS:CG	2:D:410:GLN:N	2.70	0.55
2:D:483:VAL:CG2	2:D:805:MET:HG3	2.37	0.55
2:D:728:ASN:H	2:D:736:LYS:HD3	1.70	0.55
2:E:521:MET:HE1	2:F:380:HIS:CD2	2.41	0.55
2:E:583:PHE:HD2	2:E:586:ILE:HD11	1.70	0.55
2:E:645:TRP:CZ2	2:E:874:LEU:HB2	2.42	0.55
2:E:698:PHE:N	2:E:702:VAL:HG23	2.21	0.55
2:E:877:THR:HG23	2:E:877:THR:O	2.06	0.55
2:F:645:TRP:CZ3	2:F:918:PHE:HE1	2.23	0.55
2:F:745:SER:OG	2:F:847:PRO:HG3	2.06	0.55
2:G:96:MET:CE	2:G:547:LEU:HD22	2.36	0.55
2:G:288:ALA:O	2:G:289:ASP:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:521:MET:HE1	2:H:380:HIS:CD2	2.42	0.55
2:G:906:ARG:NH1	2:G:906:ARG:CG	2.62	0.55
2:H:96:MET:HE2	2:H:547:LEU:CD2	2.36	0.55
2:H:133:CYS:SG	2:H:134:GLU:N	2.75	0.55
2:H:184:GLY:C	2:H:186:THR:N	2.61	0.55
2:H:376:ILE:HG12	2:H:774:MET:CE	2.34	0.55
2:H:411:THR:O	2:I:141:ILE:HG13	2.07	0.55
2:H:452:LEU:HA	2:H:482:ALA:HB2	1.89	0.55
2:H:470:ASN:OD1	2:H:471:LYS:N	2.39	0.55
2:H:697:MET:SD	2:H:701:SER:HA	2.46	0.55
2:H:743:MET:O	2:H:749:ILE:HG12	2.06	0.55
2:H:810:ARG:HG2	2:I:389:TYR:CD2	2.42	0.55
2:I:188:TRP:CZ3	2:I:394:GLY:HA3	2.42	0.55
2:J:67:ARG:CG	2:J:589:TYR:HE1	2.19	0.55
2:J:362:MET:HG2	2:J:363:TRP:CZ3	2.41	0.55
2:K:46:ARG:HG2	2:K:46:ARG:NH1	2.21	0.55
2:K:84:PHE:CZ	2:K:586:ILE:HG22	2.34	0.55
2:K:268:GLU:O	2:K:269:ALA:HB2	2.06	0.55
2:K:595:MET:HE2	2:K:600:ALA:HB2	1.88	0.55
2:K:649:ARG:O	2:K:859:THR:HG21	2.06	0.55
2:L:323:VAL:HA	2:L:334:VAL:CG1	2.36	0.55
1:5:24:GLU:C	1:5:26:GLY:N	2.52	0.55
2:A:57:THR:O	2:A:58:THR:OG1	2.25	0.55
2:A:310:ILE:O	2:A:310:ILE:HG13	2.07	0.55
2:A:380:HIS:CE1	2:C:521:MET:SD	2.99	0.55
2:A:706:GLY:C	2:A:708:ASP:N	2.61	0.55
2:A:729:VAL:HG23	2:C:362:MET:HE3	1.89	0.55
2:A:793:PRO:HB2	2:A:794:PHE:CD1	2.41	0.55
2:A:810:ARG:CB	2:A:810:ARG:CZ	2.82	0.55
2:A:858:LEU:CD2	2:A:863:GLN:HB2	2.36	0.55
2:B:60:ARG:HD2	2:B:597:HIS:NE2	2.20	0.55
2:B:308:ASN:OD1	2:B:308:ASN:N	2.40	0.55
2:B:353:LEU:N	2:B:353:LEU:HD23	2.21	0.55
2:B:497:TRP:CE3	2:B:774:MET:HE3	2.41	0.55
2:C:28:LEU:CD1	2:C:31:PHE:HB3	2.37	0.55
2:C:516:LEU:HD12	2:C:516:LEU:O	2.06	0.55
2:C:920:ALA:N	2:K:697:MET:HE1	2.21	0.55
2:D:226:GLN:HE21	2:E:816:PRO:HG2	1.70	0.55
2:E:72:ASP:OD1	2:E:73:ARG:N	2.38	0.55
2:E:160:ILE:O	2:E:162:ILE:HG13	2.07	0.55
2:E:851:ASN:HB2	2:E:853:MET:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:624:ASN:HD21	2:F:680:TYR:HE1	1.55	0.55
2:F:711:LEU:HD22	2:F:727:TYR:OH	2.06	0.55
2:G:84:PHE:CD2	2:G:588:LEU:HB2	2.41	0.55
2:G:656:LEU:CD1	2:G:890:TYR:HB2	2.36	0.55
2:H:213:TYR:O	2:H:215:SER:N	2.32	0.55
2:I:10:TRP:CA	2:I:15:ILE:HB	2.37	0.55
2:I:24:LEU:CD2	2:I:45:PHE:HE2	2.16	0.55
2:I:451:ALA:O	2:I:454:LEU:HG	2.06	0.55
2:J:467:LEU:HD21	2:J:479:GLY:CA	2.35	0.55
2:J:801:PHE:CE2	2:L:125:ALA:HA	2.42	0.55
2:J:812:GLY:HA2	2:L:148:PRO:HB3	1.89	0.55
2:K:289:ASP:O	2:K:290:LEU:HB2	2.06	0.55
2:K:866:LEU:O	2:K:866:LEU:HD12	2.05	0.55
2:L:136:LYS:HG2	2:L:140:LYS:CA	2.37	0.55
3:M:279:ILE:O	3:M:338:THR:HG22	2.07	0.55
5:O:214:LYS:O	5:O:214:LYS:HG3	2.06	0.55
6:P:23:THR:O	6:P:23:THR:OG1	2.24	0.55
7:T:214:TYR:O	7:T:215:PRO:C	2.46	0.55
2:A:127:LYS:O	2:A:128:THR:HB	2.07	0.55
2:A:595:MET:HG3	2:A:596:ALA:N	2.22	0.55
2:A:603:LEU:HD21	2:A:607:LEU:HD12	1.88	0.55
2:A:770:ASN:ND2	2:A:841:ARG:HB3	2.21	0.55
2:B:89:GLY:O	2:B:92:ARG:HB2	2.06	0.55
2:B:437:LEU:C	2:B:439:ALA:N	2.62	0.55
2:B:540:PHE:HZ	2:B:899:VAL:CG2	2.19	0.55
2:B:573:ASP:OD1	2:B:673:THR:HA	2.06	0.55
2:C:210:LEU:HB3	2:C:211:PRO:HD3	1.83	0.55
2:C:313:MET:CG	2:C:535:VAL:HG11	2.35	0.55
2:C:323:VAL:HG23	2:C:332:ASN:ND2	2.22	0.55
2:C:446:LEU:CD2	2:C:488:ASP:C	2.80	0.55
2:C:468:PRO:HG2	2:C:475:ALA:HB3	1.89	0.55
2:C:503:ASP:CG	2:C:836:LYS:CE	2.79	0.55
2:C:722:VAL:O	2:C:724:GLY:N	2.40	0.55
2:D:103:ILE:HG22	2:D:104:ARG:N	2.22	0.55
2:D:113:PHE:HD2	2:D:303:ILE:HB	1.70	0.55
2:D:398:ALA:HB2	2:D:426:GLU:CB	2.36	0.55
2:D:885:GLU:O	2:D:887:THR:HG23	2.07	0.55
2:F:694:VAL:CG1	2:F:716:PHE:HB2	2.37	0.55
2:F:901:ILE:HG22	2:F:903:GLN:OE1	2.05	0.55
2:G:382:VAL:C	2:G:384:ASP:H	2.15	0.55
2:G:394:GLY:C	2:G:396:SER:N	2.62	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:218:LYS:O	2:H:219:PRO:C	2.47	0.55
2:H:242:VAL:HA	2:H:262:ALA:O	2.06	0.55
2:H:483:VAL:HG22	2:H:485:SER:H	1.71	0.55
2:I:379:ASN:CG	2:I:493:ILE:HA	2.31	0.55
2:J:406:LYS:N	2:J:412:TRP:H	2.04	0.55
2:K:307:ASP:OD1	2:K:308:ASN:N	2.40	0.55
2:K:560:LYS:HG2	2:K:560:LYS:O	2.06	0.55
2:K:796:HIS:CE1	2:K:799:SER:OG	2.60	0.55
2:K:910:GLU:HG3	7:T:37:GLY:H	1.70	0.55
2:L:347:GLN:HE22	2:L:682:ASP:HA	1.71	0.55
2:L:917:PRO:HB2	2:L:918:PHE:CE1	2.42	0.55
5:O:110:VAL:HG21	5:O:122:LEU:HD11	1.89	0.55
6:R:12:PHE:O	6:R:15:GLY:HA3	2.07	0.55
2:A:7:MET:HB3	2:A:8:PRO:CD	2.34	0.55
2:A:293:GLN:H	2:C:188:TRP:HH2	1.54	0.55
2:A:306:ARG:NE	2:A:567:GLN:HB3	2.22	0.55
2:A:623:ALA:HB1	2:A:625:MET:SD	2.47	0.55
2:B:182:GLN:CG	2:B:185:GLN:HA	2.37	0.55
2:B:344:LEU:O	2:B:346:TYR:N	2.40	0.55
2:B:437:LEU:O	2:B:439:ALA:N	2.40	0.55
2:D:10:TRP:CZ3	2:E:858:LEU:HD21	2.41	0.55
2:D:221:ASN:OD1	2:D:225:GLY:HA2	2.06	0.55
2:D:391:PHE:CE2	2:F:801:PHE:HB3	2.36	0.55
2:D:516:LEU:HA	2:D:519:ARG:CD	2.23	0.55
2:D:679:PRO:HB2	2:D:684:THR:O	2.05	0.55
2:D:724:GLY:O	2:D:725:GLU:C	2.49	0.55
2:E:14:HIS:HE1	2:F:900:ARG:HH12	1.53	0.55
2:E:129:ALA:HB3	2:E:212:CYS:CB	2.37	0.55
2:E:141:ILE:O	2:E:142:LYS:HB2	2.07	0.55
2:E:334:VAL:HG23	2:E:542:ILE:CD1	2.37	0.55
2:E:344:LEU:HD23	2:E:620:LEU:HD22	1.88	0.55
2:E:344:LEU:CD2	2:E:620:LEU:HD22	2.37	0.55
2:E:436:ASN:ND2	2:E:439:ALA:HB2	2.22	0.55
2:E:623:ALA:O	2:E:625:MET:HG3	2.07	0.55
2:E:825:GLY:O	2:E:827:THR:N	2.40	0.55
2:F:66:LEU:HD12	2:F:592:PHE:CZ	2.42	0.55
2:F:316:ASN:ND2	2:F:336:ASP:OD2	2.39	0.55
2:F:743:MET:HE3	2:F:768:PHE:HB2	1.87	0.55
2:G:256:PRO:C	2:G:257:LYS:CG	2.78	0.55
2:G:259:VAL:HG12	2:G:260:LEU:N	2.21	0.55
2:G:357:SER:O	2:G:357:SER:OG	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:522:LEU:HD23	2:G:523:LEU:HD23	1.88	0.55
2:G:548:LEU:O	2:G:552:TYR:OH	2.23	0.55
2:H:124:LEU:O	2:H:124:LEU:CD1	2.54	0.55
2:H:181:PRO:O	2:H:181:PRO:HD2	2.06	0.55
2:H:294:GLN:HE22	2:H:808:THR:HA	1.70	0.55
2:H:804:TYR:CE1	2:H:805:MET:HG2	2.41	0.55
2:I:131:ASN:O	2:I:132:PRO:C	2.50	0.55
2:I:149:PHE:C	2:I:150:ILE:HD13	2.30	0.55
2:I:634:THR:OG1	6:S:5:MET:HE1	2.07	0.55
2:I:810:ARG:HH11	2:I:810:ARG:CG	2.15	0.55
2:J:25:SER:OG	2:K:612:ASN:OD1	2.15	0.55
2:J:166:THR:OG1	2:J:167:THR:N	2.40	0.55
2:J:211:PRO:O	2:J:213:TYR:N	2.40	0.55
2:J:343:GLU:HB2	2:J:681:LEU:HB2	1.88	0.55
2:J:608:ARG:NH1	2:J:906:ARG:H	2.05	0.55
2:J:629:ILE:HD11	2:J:636:VAL:HG11	1.88	0.55
2:K:28:LEU:HA	2:L:606:MET:CE	2.36	0.55
2:K:206:THR:O	2:K:206:THR:OG1	2.19	0.55
2:K:378:GLU:HG3	2:K:378:GLU:O	2.07	0.55
2:K:471:LYS:HA	2:K:476:TYR:HD2	1.68	0.55
2:L:197:LYS:H	2:L:197:LYS:CE	2.20	0.55
2:A:14:HIS:CE1	2:A:46:ARG:HD3	2.42	0.55
2:A:50:VAL:CG2	2:B:858:LEU:HD22	2.33	0.55
2:A:803:GLY:C	2:A:811:GLU:OE1	2.50	0.55
2:B:24:LEU:HD11	2:B:45:PHE:CD2	2.42	0.55
2:B:171:ILE:HG21	2:B:175:LYS:HD2	1.87	0.55
2:B:221:ASN:O	2:B:223:LYS:N	2.39	0.55
2:B:370:TYR:O	2:B:370:TYR:CD1	2.60	0.55
2:B:658:THR:HG1	2:B:886:PRO:HB2	1.71	0.55
2:B:691:PHE:CD1	2:B:880:VAL:CG2	2.89	0.55
2:C:442:TRP:O	2:C:443:ARG:C	2.49	0.55
2:D:177:TYR:CD1	2:D:178:GLN:N	2.74	0.55
2:D:401:THR:HB	2:D:425:ILE:HD13	1.89	0.55
2:D:497:TRP:CZ3	2:D:836:LYS:HB3	2.42	0.55
2:D:531:PHE:CB	2:D:533:ILE:HD12	2.37	0.55
2:D:629:ILE:HD11	2:D:880:VAL:HG21	1.88	0.55
2:D:728:ASN:O	2:D:728:ASN:CG	2.46	0.55
2:D:819:TYR:O	2:D:821:TYR:N	2.40	0.55
2:E:79:SER:HA	2:E:558:PHE:O	2.06	0.55
2:E:101:PHE:HB2	2:E:535:VAL:CG2	2.37	0.55
2:E:188:TRP:HA	2:F:809:MET:CE	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:780:ASN:C	2:E:780:ASN:HD22	2.12	0.55
2:F:84:PHE:CE2	2:F:588:LEU:HB2	2.42	0.55
2:F:400:ASP:OD1	2:F:426:GLU:HA	2.06	0.55
2:F:441:LEU:O	2:F:441:LEU:HD23	2.06	0.55
2:F:454:LEU:HD22	2:F:502:MET:HB3	1.87	0.55
2:F:680:TYR:CD1	2:F:890:TYR:HE2	2.24	0.55
2:F:787:TYR:CD1	2:F:787:TYR:O	2.60	0.55
2:G:94:LEU:HD11	2:G:99:THR:CG2	2.37	0.55
2:G:142:LYS:HD3	2:G:260:LEU:HD12	1.88	0.55
2:G:244:LEU:HD11	2:G:246:PHE:CE1	2.42	0.55
2:G:490:TYR:HA	2:G:493:ILE:HD12	1.88	0.55
2:H:274:LEU:CD1	2:H:274:LEU:H	2.20	0.55
2:H:355:ASP:OD1	2:H:357:SER:HB3	2.06	0.55
2:J:96:MET:C	2:J:98:SER:N	2.64	0.55
2:J:105:GLY:C	2:J:531:PHE:CE1	2.85	0.55
2:J:906:ARG:HG2	2:J:906:ARG:NH1	2.22	0.55
2:K:88:VAL:HG23	2:K:88:VAL:O	2.06	0.55
2:K:135:TRP:CH2	2:K:290:LEU:N	2.72	0.55
2:K:135:TRP:C	2:K:140:LYS:HA	2.32	0.55
2:K:447:TYR:N	2:K:451:ALA:HB3	2.22	0.55
2:K:454:LEU:N	2:K:502:MET:HE1	2.21	0.55
2:K:809:MET:HG3	2:K:809:MET:O	2.07	0.55
2:L:176:THR:CG2	2:L:178:GLN:HA	2.34	0.55
2:L:377:ILE:HG21	2:L:450:VAL:HG11	1.89	0.55
3:M:343:TRP:NE1	3:M:356:VAL:CG1	2.68	0.55
3:M:372:GLN:HE22	3:M:483:ALA:HB3	1.72	0.55
3:M:375:TYR:CD1	3:M:402:VAL:HG22	2.42	0.55
5:O:90:GLU:O	5:O:90:GLU:CG	2.48	0.55
6:S:32:ARG:CZ	6:S:32:ARG:HB3	2.36	0.55
7:U:13:TYR:CE2	7:U:15:PRO:CA	2.90	0.55
2:A:651:TRP:CD1	2:A:876:MET:HE1	2.42	0.55
2:A:729:VAL:HG11	2:A:736:LYS:HA	1.89	0.55
2:B:288:ALA:O	2:B:289:ASP:HB2	2.06	0.55
2:B:322:GLY:O	2:B:323:VAL:HB	2.07	0.55
2:B:648:PHE:CE2	2:B:651:TRP:CD2	2.95	0.55
2:B:824:ILE:HG22	2:B:825:GLY:H	1.72	0.55
2:C:160:ILE:HG22	2:C:161:GLN:N	2.21	0.55
2:C:343:GLU:HG2	2:C:681:LEU:HD22	1.89	0.55
2:C:767:PHE:O	2:C:769:ARG:N	2.39	0.55
2:C:770:ASN:O	2:C:772:GLN:N	2.40	0.55
2:D:144:ARG:O	2:D:144:ARG:CD	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:153:ASN:OD1	2:D:161:GLN:HB2	2.06	0.55
2:D:228:SER:HB3	2:D:264:ASN:O	2.07	0.55
2:D:794:PHE:HB3	2:F:223:LYS:HG2	1.88	0.55
2:E:698:PHE:O	2:E:699:ASP:C	2.49	0.55
2:E:729:VAL:HG13	2:E:730:ALA:N	2.20	0.55
2:F:81:LYS:HG3	2:F:557:ASN:ND2	2.21	0.55
2:F:287:SER:HB2	2:F:290:LEU:HD12	1.89	0.55
2:F:497:TRP:CD1	2:F:776:ARG:HD3	2.42	0.55
2:F:527:ARG:NH1	2:F:528:TYR:OH	2.39	0.55
2:F:642:SER:HB3	2:J:642:SER:OG	2.06	0.55
2:F:735:THR:HB	2:F:737:ASP:H	1.71	0.55
2:F:741:ILE:HD11	2:F:852:PHE:CE1	2.41	0.55
2:G:255:GLU:HB2	2:G:256:PRO:CD	2.36	0.55
2:G:483:VAL:HG21	2:G:792:LEU:HD22	1.87	0.55
2:G:488:ASP:OD1	2:G:489:THR:HG22	2.07	0.55
2:G:548:LEU:HB2	2:G:903:GLN:OE1	2.07	0.55
2:G:647:ALA:HB2	2:I:10:TRP:CZ2	2.41	0.55
2:G:729:VAL:HG13	2:G:730:ALA:N	2.21	0.55
2:G:816:PRO:CG	2:I:267:ILE:HD13	2.37	0.55
2:H:171:ILE:CD1	2:H:175:LYS:HB3	2.37	0.55
2:H:226:GLN:CD	2:I:818:ASN:HD21	2.14	0.55
2:H:394:GLY:O	2:I:129:ALA:HA	2.07	0.55
2:H:487:LEU:HD21	2:H:499:PRO:HG2	1.89	0.55
2:I:114:LYS:HD2	2:I:116:TYR:CE1	2.42	0.55
2:I:346:TYR:CD2	2:I:538:LYS:HE3	2.42	0.55
2:I:405:ILE:HG23	2:I:406:LYS:H	1.71	0.55
2:I:634:THR:CB	6:S:5:MET:HE1	2.33	0.55
2:I:740:LEU:O	2:I:744:LEU:HB2	2.06	0.55
2:I:865:MET:HA	2:I:869:ASN:HD22	1.72	0.55
2:J:14:HIS:HB2	2:J:46:ARG:HH12	1.71	0.55
2:J:102:ASP:OD2	2:K:736:LYS:NZ	2.40	0.55
2:J:121:TYR:HE2	2:K:822:PRO:HD3	1.72	0.55
2:J:422:GLY:O	2:J:424:GLU:N	2.39	0.55
2:J:895:VAL:CG2	2:J:915:ARG:HD2	2.33	0.55
2:K:104:ARG:O	2:K:584:ASP:HB3	2.07	0.55
2:K:344:LEU:HD12	2:K:680:TYR:O	2.07	0.55
2:K:350:LEU:CB	2:K:356:ARG:HD2	2.36	0.55
2:L:242:VAL:HG22	2:L:263:GLU:HB3	1.89	0.55
2:L:684:THR:O	2:L:684:THR:HG23	2.06	0.55
3:M:54:ARG:HH12	3:M:112:ASP:HA	1.72	0.55
3:M:73:LYS:HE2	3:M:81:ASN:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:118:VAL:C	5:O:120:ALA:N	2.63	0.55
5:O:222:VAL:O	5:O:260:SER:N	2.28	0.55
7:U:5:ILE:O	7:U:5:ILE:HG13	2.06	0.55
1:0:26:ARG:O	1:0:26:ARG:CG	2.42	0.55
2:A:303:ILE:O	2:A:520:SER:OG	2.17	0.55
2:A:444:SER:O	2:A:448:SER:HB2	2.07	0.55
2:A:595:MET:HE3	2:A:603:LEU:CD1	2.37	0.55
2:A:691:PHE:O	2:A:719:LYS:HD3	2.07	0.55
2:A:794:PHE:CD1	2:A:794:PHE:N	2.73	0.55
2:A:801:PHE:CZ	2:C:126:PRO:HD3	2.42	0.55
2:A:857:ALA:H	2:C:49:THR:HG23	1.71	0.55
2:B:64:LEU:HD12	2:B:64:LEU:N	2.22	0.55
2:B:653:PHE:N	2:B:653:PHE:CD1	2.70	0.55
2:B:817:ALA:HB1	2:B:819:TYR:CZ	2.42	0.55
2:C:390:CYS:CB	2:C:432:ALA:HB1	2.33	0.55
2:C:390:CYS:N	2:C:433:MET:O	2.39	0.55
2:C:721:THR:OG1	2:C:722:VAL:N	2.36	0.55
2:C:837:PHE:HE2	2:C:844:TRP:CH2	2.25	0.55
2:D:57:THR:N	2:D:596:ALA:HB2	2.17	0.55
2:D:178:GLN:O	2:D:179:PRO:C	2.49	0.55
2:D:183:VAL:O	2:D:183:VAL:CG2	2.54	0.55
2:D:406:LYS:HA	2:D:411:THR:H	1.71	0.55
2:D:469:GLU:OE1	2:D:469:GLU:N	2.31	0.55
2:D:513:ASN:OD1	2:D:514:ALA:N	2.39	0.55
2:D:638:ILE:HG12	2:D:876:MET:HB2	1.88	0.55
2:D:772:GLN:HA	2:D:772:GLN:OE1	2.07	0.55
2:E:63:ARG:HH22	2:F:711:LEU:HD23	1.72	0.55
2:E:323:VAL:HA	2:E:334:VAL:HG12	1.88	0.55
2:F:48:PRO:O	2:F:50:VAL:HG13	2.07	0.55
2:F:268:GLU:HB2	2:F:270:PRO:CD	2.37	0.55
2:F:464:ASN:C	2:F:465:ILE:HD13	2.31	0.55
2:F:662:PRO:HA	2:F:672:PHE:CD2	2.42	0.55
2:F:714:ASN:HB3	2:F:715:GLU:OE1	2.07	0.55
2:F:890:TYR:HE1	2:F:892:LEU:HD21	1.70	0.55
2:G:154:ILE:CG2	2:G:197:LYS:HB3	2.36	0.55
2:G:154:ILE:O	2:G:154:ILE:HG13	2.05	0.55
2:G:318:THR:HG1	2:G:319:GLY:N	2.05	0.55
2:G:801:PHE:CE2	2:I:125:ALA:HA	2.42	0.55
2:H:649:ARG:HA	2:H:859:THR:CG2	2.37	0.55
2:I:44:LYS:C	2:I:45:PHE:HD1	2.14	0.55
2:I:340:ARG:NH1	2:I:897:ASP:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:548:LEU:HD11	2:I:607:LEU:CD2	2.37	0.55
2:I:620:LEU:O	2:I:620:LEU:HD23	2.07	0.55
2:I:636:VAL:O	2:I:636:VAL:HG13	2.07	0.55
2:J:429:ASN:N	2:J:429:ASN:OD1	2.39	0.55
2:J:655:ARG:NH1	2:J:880:VAL:HG11	2.22	0.55
2:K:435:ILE:HG22	2:K:437:LEU:HD12	1.87	0.55
2:K:752:GLN:HE21	2:L:39:PHE:HA	1.71	0.55
2:L:315:TYR:HB3	2:L:342:THR:CG2	2.36	0.55
2:L:766:SER:OG	2:L:767:PHE:N	2.40	0.55
3:M:53:ILE:HD12	3:M:53:ILE:N	2.21	0.55
5:O:207:VAL:O	7:T:205:ASN:ND2	2.40	0.55
5:O:251:THR:O	5:O:270:ARG:NH2	2.39	0.55
5:O:252:ASN:OD1	5:O:252:ASN:N	2.39	0.55
6:P:55:TYR:CE2	6:P:57:THR:HB	2.42	0.55
7:T:70:ASN:HB3	7:T:217:ASP:OD2	2.07	0.55
7:U:66:ARG:HD2	7:U:71:PRO:HD3	1.88	0.55
1:5:19:MET:H	1:5:19:MET:HE2	1.71	0.54
2:B:80:TYR:HB2	2:B:560:LYS:NZ	2.21	0.54
2:B:890:TYR:O	2:B:890:TYR:CD2	2.60	0.54
2:C:189:ASN:O	2:C:191:GLU:N	2.40	0.54
2:C:194:ALA:O	2:C:195:ALA:C	2.50	0.54
2:C:289:ASP:HB2	2:C:290:LEU:HD12	1.89	0.54
2:C:545:LEU:HA	2:C:616:PHE:CZ	2.41	0.54
2:C:565:ILE:HD12	2:C:565:ILE:O	2.07	0.54
2:C:806:GLY:O	2:C:808:THR:N	2.35	0.54
2:D:62:GLN:O	2:E:709:ARG:HG2	2.07	0.54
2:D:123:SER:O	2:D:125:ALA:N	2.40	0.54
2:D:595:MET:CG	2:D:600:ALA:HB2	2.37	0.54
2:D:804:TYR:HD1	2:D:805:MET:N	2.04	0.54
2:E:116:TYR:HE2	2:F:824:ILE:CD1	2.20	0.54
2:E:177:TYR:HB3	2:F:804:TYR:CD2	2.42	0.54
2:E:450:VAL:CG1	2:E:487:LEU:HD13	2.36	0.54
2:E:489:THR:O	2:E:493:ILE:HD11	2.06	0.54
2:F:90:ASP:HA	2:F:549:PRO:HB3	1.87	0.54
2:F:123:SER:O	2:F:124:LEU:C	2.48	0.54
2:F:242:VAL:HA	2:F:262:ALA:O	2.07	0.54
2:F:622:ALA:HA	2:F:894:GLU:HA	1.89	0.54
2:G:62:GLN:NE2	2:G:594:PRO:HA	2.22	0.54
2:G:178:GLN:HA	2:H:813:GLN:HG3	1.89	0.54
2:G:249:LEU:HD12	2:G:252:THR:OG1	2.07	0.54
2:G:365:GLN:O	2:G:366:ALA:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:460:ILE:HA	2:G:480:ARG:NH2	2.15	0.54
2:G:900:ARG:HH12	2:I:14:HIS:CE1	2.24	0.54
2:H:219:PRO:HG3	2:I:821:TYR:CZ	2.41	0.54
2:H:411:THR:O	2:H:412:TRP:CB	2.54	0.54
2:H:689:HIS:O	2:H:719:LYS:HD2	2.07	0.54
2:I:152:THR:HG22	2:I:197:LYS:HG2	1.89	0.54
2:I:649:ARG:HD2	2:I:896:PHE:CE1	2.41	0.54
2:J:35:THR:HG22	2:J:35:THR:O	2.07	0.54
2:J:65:THR:HG23	2:K:711:LEU:HD11	1.88	0.54
2:J:128:THR:HG22	2:J:128:THR:O	2.05	0.54
2:J:176:THR:O	2:J:178:GLN:N	2.40	0.54
2:K:103:ILE:HG12	2:K:586:ILE:CD1	2.37	0.54
2:K:216:TYR:HB2	2:K:268:GLU:H	1.72	0.54
2:K:874:LEU:HD23	2:K:874:LEU:C	2.33	0.54
2:L:136:LYS:HB3	2:L:139:ASN:O	2.07	0.54
2:L:242:VAL:HG22	2:L:263:GLU:CB	2.37	0.54
3:M:330:LEU:HD21	3:M:335:GLN:CG	2.35	0.54
5:O:223:ARG:HA	5:O:260:SER:CB	2.37	0.54
6:S:11:SER:C	6:S:13:LYS:N	2.65	0.54
7:U:33:TRP:CE3	7:U:41:ILE:HD12	2.42	0.54
2:A:242:VAL:HG22	2:A:243:ASN:N	2.20	0.54
2:A:447:TYR:HA	2:A:451:ALA:HB3	1.90	0.54
2:A:542:ILE:O	2:A:543:LYS:C	2.49	0.54
2:A:655:ARG:HG3	2:A:691:PHE:CE1	2.34	0.54
2:A:711:LEU:HD11	2:A:727:TYR:HE1	1.72	0.54
2:A:800:GLY:HA2	2:A:811:GLU:O	2.07	0.54
2:A:810:ARG:HH11	2:A:810:ARG:HB2	1.71	0.54
2:B:175:LYS:CB	2:B:178:GLN:HB3	2.36	0.54
2:B:305:PHE:HD2	2:B:309:PHE:HE1	1.53	0.54
2:B:656:LEU:CD1	2:B:679:PRO:HB2	2.36	0.54
2:B:670:PRO:HD2	3:M:82:TYR:CD2	2.42	0.54
2:C:67:ARG:HD2	2:C:589:TYR:OH	2.07	0.54
2:C:272:THR:C	2:C:298:ASN:HD21	2.14	0.54
2:C:574:LEU:O	2:C:577:ASP:N	2.35	0.54
2:D:226:GLN:NE2	2:E:817:ALA:O	2.40	0.54
2:D:268:GLU:HG2	2:D:269:ALA:N	2.18	0.54
2:E:149:PHE:C	2:E:149:PHE:HD1	2.12	0.54
2:E:332:ASN:OD1	2:E:333:ALA:N	2.40	0.54
2:E:375:ARG:NH2	2:E:838:LEU:HD21	2.22	0.54
2:F:135:TRP:HB3	2:F:142:LYS:NZ	2.22	0.54
2:F:177:TYR:HD1	2:F:177:TYR:C	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:400:ASP:O	2:F:425:ILE:HB	2.08	0.54
2:G:154:ILE:HG23	2:G:197:LYS:HG3	1.88	0.54
2:G:154:ILE:HD11	2:G:256:PRO:HB3	1.89	0.54
2:G:694:VAL:HG11	2:G:738:TRP:HZ2	1.72	0.54
2:H:608:ARG:HD2	2:H:903:GLN:O	2.06	0.54
2:H:746:HIS:ND1	2:H:767:PHE:HB2	2.23	0.54
2:I:160:ILE:HG22	2:I:170:PRO:CG	2.31	0.54
2:I:529:VAL:O	2:I:529:VAL:HG13	2.08	0.54
2:I:840:ASP:OD1	2:I:840:ASP:N	2.36	0.54
2:J:130:PRO:O	2:J:130:PRO:CD	2.54	0.54
2:J:369:SER:HA	2:J:841:ARG:NH2	2.22	0.54
2:J:437:LEU:HD22	2:L:437:LEU:CD1	2.34	0.54
2:K:81:LYS:HD3	2:K:557:ASN:ND2	2.22	0.54
2:K:512:ARG:HH22	2:L:383:GLU:CD	2.16	0.54
2:L:201:ARG:HG2	2:L:261:TYR:HB2	1.88	0.54
2:L:662:PRO:HB3	2:L:672:PHE:CD2	2.42	0.54
2:L:741:ILE:HD11	2:L:852:PHE:CE2	2.42	0.54
2:L:789:ASN:O	2:L:789:ASN:OD1	2.25	0.54
3:M:271:TYR:O	3:M:272:GLU:HG2	2.08	0.54
5:O:177:ARG:O	5:O:180:VAL:HG12	2.06	0.54
6:S:47:PRO:O	6:S:49:ASN:N	2.40	0.54
7:U:56:LEU:HD21	7:U:202:VAL:HG11	1.87	0.54
2:A:207:THR:HG1	2:A:208:PRO:HD2	1.66	0.54
2:A:440:ASN:OD1	2:A:440:ASN:N	2.36	0.54
2:A:459:LYS:HG2	2:A:481:VAL:O	2.08	0.54
2:A:740:LEU:HD23	2:A:744:LEU:HD13	1.88	0.54
2:B:175:LYS:HG2	2:B:178:GLN:OE1	2.07	0.54
2:B:279:ASP:OD1	2:B:280:VAL:N	2.35	0.54
2:B:329:SER:OG	2:B:330:GLN:N	2.41	0.54
2:B:346:TYR:C	2:B:348:LEU:N	2.62	0.54
2:B:562:VAL:HG21	2:B:579:ALA:O	2.08	0.54
2:B:641:PRO:HB3	3:M:98:ASP:O	2.07	0.54
2:B:698:PHE:O	2:B:702:VAL:HG22	2.07	0.54
2:B:769:ARG:HG3	2:B:769:ARG:NH1	2.22	0.54
2:B:770:ASN:O	2:B:839:CYS:HA	2.07	0.54
2:C:210:LEU:CB	2:C:211:PRO:CD	2.74	0.54
2:C:378:GLU:O	2:C:380:HIS:N	2.37	0.54
2:C:679:PRO:HB3	2:C:684:THR:O	2.06	0.54
2:C:819:TYR:CD1	2:C:820:PRO:N	2.75	0.54
2:C:902:HIS:CE1	2:C:904:PRO:HD3	2.42	0.54
2:D:413:THR:O	2:D:414:ALA:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:524:GLY:HA3	2:E:777:GLN:HE22	1.72	0.54
2:D:919:SER:O	2:D:920:ALA:HB3	2.07	0.54
2:E:101:PHE:HZ	2:E:554:TYR:HE2	1.55	0.54
2:E:119:THR:HA	2:E:271:ASP:OD2	2.06	0.54
2:E:153:ASN:HB3	2:E:161:GLN:CB	2.37	0.54
2:E:524:GLY:HA3	2:F:777:GLN:NE2	2.22	0.54
2:E:533:ILE:CG2	2:E:534:GLN:N	2.69	0.54
2:E:678:VAL:CG2	2:E:682:ASP:HB2	2.36	0.54
2:F:393:LEU:O	2:F:393:LEU:HD23	2.08	0.54
2:F:718:ILE:HG13	2:F:738:TRP:CD1	2.43	0.54
2:F:904:PRO:O	2:F:905:HIS:CG	2.61	0.54
2:G:178:GLN:OE1	2:H:813:GLN:NE2	2.40	0.54
2:G:215:SER:HA	2:G:267:ILE:HD11	1.88	0.54
2:G:608:ARG:NH2	2:G:906:ARG:HA	2.21	0.54
2:H:151:GLY:HA3	2:H:197:LYS:HG2	1.89	0.54
2:H:289:ASP:O	2:H:289:ASP:CG	2.51	0.54
2:H:315:TYR:CD1	2:H:342:THR:HG21	2.42	0.54
2:H:625:MET:HG3	2:H:893:PHE:HE1	1.71	0.54
2:H:779:VAL:HG22	2:H:829:VAL:CG2	2.35	0.54
2:H:788:GLN:OE1	2:H:788:GLN:HA	2.06	0.54
2:H:900:ARG:C	2:H:901:ILE:HD13	2.32	0.54
2:I:96:MET:HE1	2:I:99:THR:OG1	2.07	0.54
2:I:160:ILE:HD12	2:I:199:ALA:CB	2.37	0.54
2:I:313:MET:HG2	2:I:558:PHE:CE1	2.37	0.54
2:J:8:PRO:HB2	7:T:47:ILE:HD11	1.89	0.54
2:J:108:ASP:C	2:J:108:ASP:OD1	2.50	0.54
2:J:173:ALA:HB1	2:J:222:GLU:HB2	1.88	0.54
2:J:309:PHE:HE2	2:J:533:ILE:HD12	1.72	0.54
2:J:315:TYR:OH	2:J:538:LYS:HB2	2.07	0.54
2:J:350:LEU:HD12	2:J:356:ARG:NH2	2.23	0.54
2:J:425:ILE:O	2:J:427:SER:N	2.40	0.54
2:J:563:ASN:HD21	2:J:575:ARG:N	2.00	0.54
2:J:607:LEU:O	2:J:607:LEU:HD23	2.06	0.54
2:K:764:MET:HA	2:K:769:ARG:HD2	1.90	0.54
3:M:124:ILE:CG1	3:M:460:LEU:HD22	2.26	0.54
3:M:453:VAL:CG1	3:M:454:SER:H	2.21	0.54
5:O:93:ALA:O	5:O:94:ILE:C	2.50	0.54
5:O:154:PHE:HZ	5:O:213:PHE:HE1	1.55	0.54
5:O:206:THR:CG2	5:O:242:LEU:HD11	2.36	0.54
7:U:165:ARG:NH1	7:U:167:SER:OG	2.40	0.54
1:4:12:ARG:HG3	1:4:13:HIS:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:213:TYR:O	2:A:213:TYR:CD2	2.60	0.54
2:A:865:MET:HE1	2:E:922:ASN:O	2.07	0.54
2:B:629:ILE:HB	2:B:887:THR:O	2.07	0.54
2:C:18:GLN:HB3	2:C:23:TYR:HB3	1.89	0.54
2:C:76:THR:HG22	2:C:77:ALA:N	2.23	0.54
2:C:150:ILE:CA	2:C:198:VAL:HB	2.37	0.54
2:C:315:TYR:HH	2:C:538:LYS:H	1.56	0.54
2:C:375:ARG:NH2	2:C:502:MET:O	2.39	0.54
2:C:708:ASP:O	2:C:710:LEU:N	2.40	0.54
2:D:309:PHE:CE2	2:D:533:ILE:HG23	2.42	0.54
2:D:581:VAL:HG11	2:D:583:PHE:CE1	2.43	0.54
2:D:725:GLU:HG2	2:D:725:GLU:O	2.06	0.54
2:D:747:TYR:HB2	2:D:749:ILE:HG12	1.90	0.54
2:E:155:ASN:OD1	2:E:156:LYS:N	2.40	0.54
2:E:348:LEU:HB3	2:E:619:TYR:CE2	2.42	0.54
2:E:361:SER:HB2	2:E:522:LEU:HD11	1.90	0.54
2:E:744:LEU:HD21	2:E:751:TYR:CE2	2.43	0.54
2:F:177:TYR:C	2:F:178:GLN:HG2	2.32	0.54
2:F:280:VAL:HG11	2:F:290:LEU:HD21	1.89	0.54
2:F:377:ILE:CG2	2:F:450:VAL:HG21	2.33	0.54
2:F:648:PHE:HE2	2:F:651:TRP:CZ2	2.25	0.54
2:F:890:TYR:CE1	2:F:892:LEU:HD21	2.42	0.54
2:G:322:GLY:O	2:G:323:VAL:HB	2.07	0.54
2:G:360:PHE:O	2:G:360:PHE:CG	2.49	0.54
2:G:581:VAL:O	2:G:581:VAL:HG13	2.07	0.54
2:H:164:THR:OG1	2:H:165:ASP:N	2.41	0.54
2:H:249:LEU:HD11	2:H:255:GLU:OE1	2.07	0.54
2:I:109:ARG:HH12	2:I:523:LEU:HB2	1.73	0.54
2:I:338:GLN:O	2:I:338:GLN:CG	2.54	0.54
2:I:341:ASN:HB2	2:I:624:ASN:ND2	2.21	0.54
2:I:646:ALA:HB3	2:I:917:PRO:HD3	1.90	0.54
2:J:742:GLN:HA	2:J:742:GLN:OE1	2.08	0.54
2:K:521:MET:HE2	2:L:495:ALA:CA	2.37	0.54
2:L:449:ASN:HD21	2:L:512:ARG:HG3	1.72	0.54
2:L:609:ASN:ND2	7:U:87:THR:HG21	2.21	0.54
2:L:777:GLN:HB3	2:L:833:THR:HA	1.89	0.54
5:O:66:LEU:H	5:O:66:LEU:HD12	1.72	0.54
5:O:254:SER:OG	5:O:255:THR:N	2.38	0.54
7:U:81:GLN:CD	7:U:185:ARG:H	2.15	0.54
7:U:216:ASP:C	7:U:218:PHE:H	2.14	0.54
1:8:24:GLU:OE1	1:8:25:ILE:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:437:LEU:O	2:A:437:LEU:CD2	2.56	0.54
2:A:669:ASP:HB2	2:A:672:PHE:HB2	1.89	0.54
2:A:788:GLN:HE21	2:C:222:GLU:N	2.05	0.54
2:A:861:LEU:HA	2:A:864:ASN:OD1	2.07	0.54
2:B:175:LYS:HG2	2:B:178:GLN:HB3	1.90	0.54
2:B:216:TYR:CG	2:B:217:ALA:N	2.67	0.54
2:B:468:PRO:HD3	2:B:475:ALA:HB1	1.90	0.54
2:B:491:VAL:O	2:B:491:VAL:HG12	2.06	0.54
2:C:103:ILE:CG1	2:C:586:ILE:HD11	2.38	0.54
2:C:316:ASN:O	2:C:316:ASN:CG	2.47	0.54
2:D:126:PRO:C	2:D:128:THR:H	2.15	0.54
2:D:402:TYR:O	2:D:403:SER:HB3	2.06	0.54
2:E:109:ARG:HH22	2:E:523:LEU:CB	2.19	0.54
2:E:196:GLN:CD	2:E:196:GLN:N	2.65	0.54
2:E:360:PHE:HA	2:F:768:PHE:HZ	1.72	0.54
2:E:403:SER:HB2	2:F:250:PRO:HD3	1.89	0.54
2:F:82:VAL:HB	2:F:84:PHE:HE1	1.73	0.54
2:F:160:ILE:O	2:F:160:ILE:HG13	2.05	0.54
2:F:653:PHE:HE2	2:F:846:ILE:HD11	1.72	0.54
2:G:67:ARG:HA	2:G:589:TYR:CE1	2.43	0.54
2:G:154:ILE:HG23	2:G:197:LYS:HD2	1.89	0.54
2:G:379:ASN:C	2:G:381:GLY:N	2.62	0.54
2:G:747:TYR:CE1	2:G:762:ASP:HB2	2.43	0.54
2:H:210:LEU:CB	2:H:211:PRO:CD	2.81	0.54
2:H:639:SER:O	2:H:640:ILE:HD13	2.07	0.54
2:I:749:ILE:HG12	2:I:755:TYR:CE1	2.41	0.54
2:J:160:ILE:HD12	2:J:175:LYS:CE	2.34	0.54
2:J:407:ALA:O	2:J:410:GLN:N	2.40	0.54
2:J:588:LEU:HD12	2:J:589:TYR:H	1.72	0.54
2:J:763:ARG:O	2:J:766:SER:OG	2.20	0.54
2:J:815:TYR:CZ	2:L:203:LEU:HD11	2.42	0.54
2:K:61:SER:OG	2:L:707:ASN:CA	2.56	0.54
2:K:727:TYR:HA	2:K:736:LYS:HE3	1.90	0.54
2:K:804:TYR:CE1	2:K:805:MET:HG2	2.42	0.54
2:L:103:ILE:HG23	2:L:586:ILE:CD1	2.36	0.54
2:L:103:ILE:HD11	2:L:535:VAL:HG21	1.90	0.54
2:L:171:ILE:O	2:L:171:ILE:HG23	2.07	0.54
2:L:172:TYR:N	2:L:172:TYR:CD1	2.75	0.54
2:L:824:ILE:HG22	2:L:825:GLY:H	1.72	0.54
2:L:909:ILE:O	2:L:909:ILE:HG23	2.07	0.54
3:M:283:LEU:HD12	3:M:284:ASP:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:154:PHE:CZ	5:O:213:PHE:HE1	2.25	0.54
2:A:4:PRO:HB3	3:M:113:GLU:HB3	1.89	0.54
2:A:8:PRO:HD3	5:O:67:GLU:OE2	2.07	0.54
2:A:242:VAL:HG13	2:A:243:ASN:N	2.21	0.54
2:A:276:TYR:O	2:A:277:LYS:C	2.49	0.54
2:A:493:ILE:HD13	2:C:120:ALA:HB2	1.88	0.54
2:B:216:TYR:OH	2:B:218:LYS:HA	2.08	0.54
2:B:274:LEU:HD23	2:B:465:ILE:HG12	1.89	0.54
2:B:349:MET:SD	2:B:543:LYS:NZ	2.64	0.54
2:B:469:GLU:O	2:B:470:ASN:C	2.50	0.54
2:B:477:MET:HE3	2:B:477:MET:CA	2.36	0.54
2:B:696:ILE:HA	2:B:876:MET:HA	1.89	0.54
2:B:895:VAL:HG11	2:B:917:PRO:HD3	1.88	0.54
2:C:311:GLY:O	2:C:312:LEU:C	2.49	0.54
2:C:331:LEU:HD23	2:J:63:ARG:HD2	1.89	0.54
2:C:729:VAL:CB	2:C:736:LYS:HA	2.37	0.54
2:C:774:MET:HE3	2:C:838:LEU:HD11	1.89	0.54
2:D:222:GLU:C	2:D:224:GLY:H	2.15	0.54
2:D:456:ASP:O	2:D:456:ASP:OD1	2.25	0.54
2:D:621:CYS:HB3	2:D:895:VAL:O	2.08	0.54
2:D:649:ARG:O	2:D:894:GLU:HB2	2.06	0.54
2:D:808:THR:CG2	2:D:809:MET:H	2.20	0.54
2:D:809:MET:SD	2:E:389:TYR:OH	2.63	0.54
2:D:824:ILE:HD12	2:F:116:TYR:HE2	1.73	0.54
2:D:883:MET:HG3	2:D:884:ASP:H	1.73	0.54
2:E:136:LYS:HG2	2:E:137:ASP:H	1.73	0.54
2:E:203:LEU:HD22	2:F:815:TYR:CZ	2.42	0.54
2:E:374:VAL:HG21	2:E:449:ASN:HB3	1.89	0.54
2:E:485:SER:C	2:E:792:LEU:HD21	2.33	0.54
2:E:620:LEU:O	2:E:620:LEU:HG	2.08	0.54
2:E:662:PRO:HB2	2:E:663:SER:O	2.07	0.54
2:E:900:ARG:HB3	2:E:912:VAL:HG22	1.88	0.54
2:E:906:ARG:HB2	2:E:906:ARG:NH1	2.23	0.54
2:F:291:LEU:C	2:F:291:LEU:CD1	2.80	0.54
2:F:648:PHE:HE2	2:F:651:TRP:CE2	2.25	0.54
2:F:704:TRP:HZ2	2:F:849:SER:H	1.55	0.54
2:F:896:PHE:O	2:F:915:ARG:HA	2.07	0.54
2:G:344:LEU:HD21	2:G:348:LEU:HG	1.89	0.54
2:I:107:LEU:HD23	2:I:107:LEU:C	2.32	0.54
2:I:389:TYR:HB2	2:I:391:PHE:HE1	1.72	0.54
2:I:402:TYR:O	2:I:423:ALA:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:539:PHE:O	2:I:543:LYS:N	2.41	0.54
2:J:110:GLY:C	2:J:112:SER:N	2.65	0.54
2:J:121:TYR:OH	2:K:822:PRO:HA	2.08	0.54
2:J:189:ASN:O	2:J:191:GLU:N	2.41	0.54
2:J:227:ALA:HB3	2:J:265:VAL:CB	2.37	0.54
2:J:352:ALA:C	2:J:353:LEU:HD23	2.32	0.54
2:J:437:LEU:O	2:J:437:LEU:CD1	2.55	0.54
2:J:813:GLN:HE21	2:L:148:PRO:CD	2.13	0.54
2:K:443:ARG:NH1	2:K:802:VAL:HG22	2.15	0.54
2:K:669:ASP:O	2:K:669:ASP:OD1	2.24	0.54
2:L:114:LYS:HZ2	2:L:298:ASN:H	1.55	0.54
2:L:497:TRP:CD1	2:L:776:ARG:HE	2.26	0.54
2:L:859:THR:HG23	2:L:862:GLY:N	2.20	0.54
3:M:223:MET:HE1	8:X:11:PHE:HE2	1.71	0.54
7:U:31:MET:SD	7:U:47:ILE:HD11	2.47	0.54
7:U:99:VAL:O	7:U:102:THR:HG22	2.08	0.54
1:1:16:ARG:HG2	2:L:56:VAL:HG12	1.88	0.54
1:6:11:PRO:HG3	2:J:896:PHE:CD2	2.43	0.54
2:A:711:LEU:HD11	2:A:727:TYR:CE1	2.43	0.54
2:B:762:ASP:OD2	2:B:769:ARG:HG2	2.08	0.54
2:B:819:TYR:CD2	2:B:819:TYR:O	2.52	0.54
2:B:899:VAL:HG13	2:B:913:TYR:HD1	1.67	0.54
2:C:23:TYR:CE1	2:C:24:LEU:HD22	2.43	0.54
2:C:135:TRP:HA	2:C:135:TRP:HE3	1.70	0.54
2:C:203:LEU:HD12	2:C:203:LEU:H	1.71	0.54
2:C:299:ARG:CD	2:C:452:LEU:HD21	2.38	0.54
2:C:534:GLN:N	2:C:534:GLN:OE1	2.41	0.54
2:D:35:THR:HG22	2:D:38:TYR:CE1	2.42	0.54
2:D:93:VAL:HG21	2:D:603:LEU:HD23	1.89	0.54
2:D:310:ILE:HG23	2:D:310:ILE:O	2.06	0.54
2:D:836:LYS:HG3	2:D:837:PHE:N	2.23	0.54
2:D:878:PHE:HD2	2:D:889:LEU:HD21	1.70	0.54
2:E:804:TYR:O	2:E:804:TYR:CD1	2.60	0.54
2:F:899:VAL:HG23	2:F:913:TYR:CD1	2.43	0.54
2:G:20:ALA:O	2:G:24:LEU:HD23	2.07	0.54
2:G:292:THR:HB	2:I:186:THR:HG23	1.90	0.54
2:H:210:LEU:HD23	2:H:269:ALA:HB2	1.88	0.54
2:H:497:TRP:CE3	2:H:776:ARG:CG	2.91	0.54
2:I:211:PRO:HG3	2:I:295:ALA:HB2	1.89	0.54
2:I:405:ILE:HG23	2:I:406:LYS:N	2.22	0.54
2:I:705:PRO:HG3	2:I:716:PHE:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:805:MET:HE3	2:I:805:MET:CA	2.34	0.54
2:J:276:TYR:O	2:J:276:TYR:CG	2.60	0.54
2:J:312:LEU:HD23	2:J:535:VAL:HG21	1.90	0.54
2:J:316:ASN:ND2	2:J:342:THR:HG22	2.22	0.54
2:J:405:ILE:HA	2:J:412:TRP:HA	1.88	0.54
2:J:444:SER:C	2:J:446:LEU:H	2.15	0.54
2:J:454:LEU:CB	2:J:455:PRO:CD	2.82	0.54
2:J:701:SER:O	2:J:701:SER:OG	2.13	0.54
2:J:801:PHE:CA	2:K:391:PHE:HE2	2.21	0.54
2:K:896:PHE:O	2:K:915:ARG:HA	2.08	0.54
5:O:201:ARG:HG3	5:O:203:GLY:N	2.23	0.54
7:U:20:ALA:HB3	7:U:70:ASN:ND2	2.18	0.54
2:A:359:TYR:HB3	2:A:518:TYR:CE2	2.43	0.54
2:A:389:TYR:CE1	2:C:433:MET:CB	2.91	0.54
2:A:593:PHE:HA	2:B:751:TYR:CE2	2.42	0.54
2:A:624:ASN:O	2:A:624:ASN:CG	2.50	0.54
2:A:916:THR:HG21	2:C:10:TRP:NE1	2.21	0.54
2:B:114:LYS:HZ3	2:B:298:ASN:CB	2.19	0.54
2:B:318:THR:OG1	2:B:319:GLY:N	2.40	0.54
2:B:382:VAL:CG1	2:B:439:ALA:HA	2.37	0.54
2:B:559:ARG:HH22	2:B:664:LEU:HD22	1.73	0.54
2:B:647:ALA:O	2:B:648:PHE:C	2.50	0.54
2:B:727:TYR:O	2:B:736:LYS:HE2	2.07	0.54
2:C:370:TYR:CD2	2:C:375:ARG:HB2	2.42	0.54
2:D:275:VAL:HG23	2:D:294:GLN:HG2	1.90	0.54
2:D:303:ILE:HD13	2:D:568:SER:HA	1.89	0.54
2:D:309:PHE:CE2	2:D:533:ILE:CG2	2.91	0.54
2:D:447:TYR:OH	2:E:385:GLU:HB2	2.06	0.54
2:D:573:ASP:HB3	2:D:673:THR:O	2.08	0.54
2:E:141:ILE:C	2:E:142:LYS:HD3	2.33	0.54
2:E:247:PHE:HZ	2:E:260:LEU:HG	1.71	0.54
2:E:704:TRP:HZ3	2:E:861:LEU:CD2	2.11	0.54
2:E:801:PHE:HA	2:F:391:PHE:CE1	2.42	0.54
2:F:739:PHE:O	2:F:742:GLN:N	2.33	0.54
2:G:15:ILE:HD13	2:H:898:VAL:HG21	1.89	0.54
2:G:577:ASP:OD1	2:G:578:GLY:N	2.41	0.54
2:G:622:ALA:CB	2:G:892:LEU:HG	2.37	0.54
2:G:703:SER:HB3	2:G:705:PRO:CD	2.37	0.54
2:G:728:ASN:OD1	2:G:733:ASN:HA	2.08	0.54
2:G:747:TYR:HH	2:G:766:SER:HB3	1.73	0.54
2:H:144:ARG:CD	2:H:144:ARG:C	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:250:PRO:O	2:H:250:PRO:CG	2.55	0.54
2:H:367:VAL:HG11	2:H:764:MET:HE1	1.89	0.54
2:I:160:ILE:HD12	2:I:199:ALA:HB3	1.88	0.54
2:I:273:HIS:HB3	2:I:298:ASN:ND2	2.23	0.54
2:I:746:HIS:CE1	2:I:767:PHE:HB2	2.43	0.54
2:I:819:TYR:N	2:I:820:PRO:CD	2.71	0.54
2:J:812:GLY:HA2	2:L:148:PRO:CB	2.38	0.54
2:K:363:TRP:NE1	2:L:754:PHE:O	2.29	0.54
2:K:792:LEU:HA	2:K:795:GLN:CD	2.32	0.54
2:K:902:HIS:CE1	2:K:904:PRO:HB3	2.43	0.54
2:L:136:LYS:HG2	2:L:140:LYS:HG3	1.77	0.54
2:L:323:VAL:CG1	2:L:555:GLU:HG2	2.38	0.54
2:L:629:ILE:HD11	2:L:889:LEU:HB2	1.88	0.54
5:O:76:PRO:HG2	5:O:80:LYS:NZ	2.23	0.54
5:O:115:SER:O	5:O:116:THR:C	2.43	0.54
7:T:216:ASP:O	7:T:216:ASP:OD1	2.26	0.54
7:U:18:GLY:HA3	7:U:188:GLY:HA3	1.90	0.54
1:8:25:ILE:HA	1:8:27:THR:O	2.07	0.54
2:A:344:LEU:HD22	2:A:620:LEU:HD23	1.90	0.54
2:A:371:ASP:O	2:A:374:VAL:HG12	2.08	0.54
2:A:718:ILE:HG12	2:A:738:TRP:CD2	2.43	0.54
2:A:815:TYR:CE1	2:C:201:ARG:HB2	2.43	0.54
2:B:176:THR:O	2:B:177:TYR:HB3	2.07	0.54
2:B:310:ILE:HG21	2:B:347:GLN:NE2	2.23	0.54
2:B:640:ILE:CG2	2:B:874:LEU:HB2	2.38	0.54
2:C:109:ARG:CG	2:C:527:ARG:HA	2.38	0.54
2:C:349:MET:HE1	2:C:543:LYS:HE3	1.88	0.54
2:C:550:GLY:HA2	2:C:906:ARG:HH12	1.73	0.54
2:C:643:ARG:NH2	2:C:918:PHE:H	2.06	0.54
2:D:95:ASP:OD2	2:E:752:GLN:NE2	2.41	0.54
2:D:105:GLY:C	2:D:531:PHE:CD2	2.86	0.54
2:D:143:VAL:HG22	2:D:144:ARG:N	2.23	0.54
2:D:194:ALA:O	2:D:196:GLN:N	2.41	0.54
2:D:424:GLU:C	2:D:425:ILE:HG23	2.31	0.54
2:D:500:ASP:HA	2:D:503:ASP:HB2	1.90	0.54
2:D:534:GLN:HE22	2:E:729:VAL:C	2.16	0.54
2:D:599:THR:O	2:D:602:THR:HG22	2.08	0.54
2:E:83:ARG:HG3	2:E:555:GLU:CG	2.38	0.54
2:E:552:TYR:HE2	2:E:909:ILE:HG12	1.72	0.54
2:F:135:TRP:CD1	2:F:287:SER:C	2.86	0.54
2:F:249:LEU:H	2:F:250:PRO:CD	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:529:VAL:O	2:F:529:VAL:HG13	2.07	0.54
2:F:697:MET:HG3	2:F:702:VAL:O	2.07	0.54
2:F:808:THR:HG22	2:F:809:MET:N	2.23	0.54
2:G:303:ILE:O	2:G:520:SER:HB2	2.08	0.54
2:G:380:HIS:CG	2:I:517:ARG:HH12	2.26	0.54
2:G:498:SER:H	2:G:774:MET:HE1	1.73	0.54
2:G:658:THR:OG1	2:G:886:PRO:HB2	2.08	0.54
2:H:131:ASN:O	2:H:132:PRO:C	2.49	0.54
2:H:539:PHE:O	2:H:543:LYS:N	2.41	0.54
2:I:316:ASN:HD21	2:I:342:THR:H	1.55	0.54
2:J:275:VAL:O	2:J:276:TYR:HB3	2.07	0.54
2:J:306:ARG:HH12	2:J:567:GLN:HA	1.73	0.54
2:J:729:VAL:HG23	2:L:534:GLN:NE2	2.22	0.54
2:K:309:PHE:O	2:K:311:GLY:N	2.41	0.54
2:L:92:ARG:O	2:L:549:PRO:HG3	2.07	0.54
2:L:173:ALA:O	2:L:175:LYS:N	2.40	0.54
3:M:279:ILE:HG22	3:M:280:PRO:O	2.08	0.54
6:P:41:ASP:OD1	6:P:43:ARG:N	2.37	0.54
2:A:323:VAL:HG12	2:A:332:ASN:ND2	2.22	0.54
2:A:549:PRO:HD2	2:A:604:GLU:OE1	2.08	0.54
2:B:306:ARG:NH2	2:B:675:SER:O	2.41	0.54
2:B:670:PRO:HB2	2:B:671:TYR:CD1	2.42	0.54
2:B:686:TYR:CD1	2:B:687:LEU:HD13	2.37	0.54
2:C:144:ARG:HB3	2:C:144:ARG:NH1	2.14	0.54
2:C:286:SER:OG	2:C:287:SER:N	2.35	0.54
2:C:446:LEU:C	2:C:448:SER:H	2.15	0.54
2:C:449:ASN:O	2:C:510:HIS:HE1	1.91	0.54
2:C:545:LEU:HD12	2:C:546:LEU:N	2.22	0.54
2:C:767:PHE:O	2:C:768:PHE:C	2.49	0.54
2:D:62:GLN:OE1	2:D:597:HIS:HE1	1.91	0.54
2:D:252:THR:H	2:D:253:PRO:CD	2.16	0.54
2:E:65:THR:CG2	2:F:711:LEU:HG	2.37	0.54
2:E:92:ARG:HE	2:E:592:PHE:HE2	1.55	0.54
2:F:67:ARG:NH2	2:F:587:ASN:ND2	2.56	0.54
2:F:113:PHE:O	2:F:113:PHE:CG	2.56	0.54
2:F:278:PRO:HD3	2:F:293:GLN:HG3	1.89	0.54
2:F:654:THR:HG23	2:F:688:ASN:ND2	2.21	0.54
2:F:888:LEU:HD11	6:Q:25:LEU:CD2	2.38	0.54
2:G:111:PRO:CD	2:G:527:ARG:HH22	2.14	0.54
2:G:122:ASN:HD22	2:H:798:ASN:H	1.55	0.54
2:G:430:ILE:HD13	2:I:801:PHE:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:777:GLN:HE21	2:G:833:THR:CG2	2.19	0.54
2:G:895:VAL:HG21	2:G:915:ARG:HH21	1.73	0.54
2:H:69:VAL:CG2	2:H:70:PRO:HD2	2.38	0.54
2:H:151:GLY:HA3	2:H:197:LYS:CD	2.38	0.54
2:H:191:GLU:O	2:H:193:GLY:N	2.40	0.54
2:H:306:ARG:HG3	2:H:306:ARG:NH1	2.22	0.54
2:H:396:SER:HB2	2:I:144:ARG:NH2	2.23	0.54
2:H:655:ARG:HD3	2:H:690:THR:CG2	2.37	0.54
2:I:149:PHE:CD2	2:I:160:ILE:HG21	2.42	0.54
2:I:151:GLY:O	2:I:197:LYS:HB3	2.08	0.54
2:I:737:ASP:OD1	2:I:737:ASP:N	2.40	0.54
2:J:114:LYS:HZ2	2:J:271:ASP:HB2	1.72	0.54
2:J:861:LEU:HA	2:J:864:ASN:HB3	1.90	0.54
2:L:24:LEU:HD22	2:L:28:LEU:HD23	1.89	0.54
2:L:113:PHE:CE1	2:L:115:PRO:HD3	2.42	0.54
2:L:176:THR:CG2	2:L:179:PRO:HD3	2.38	0.54
3:M:50:ARG:N	3:M:112:ASP:OD2	2.21	0.54
3:M:372:GLN:NE2	3:M:483:ALA:HB3	2.23	0.54
5:O:53:PHE:CD1	5:O:61:ARG:HG2	2.43	0.54
5:O:203:GLY:O	5:O:204:LEU:HB2	2.08	0.54
6:S:19:PRO:O	6:S:19:PRO:CG	2.53	0.54
6:S:23:THR:CG2	6:S:23:THR:O	2.53	0.54
7:T:13:TYR:CE2	7:T:191:THR:HG22	2.39	0.54
7:T:108:LEU:HD23	7:T:108:LEU:H	1.72	0.54
7:U:66:ARG:HG3	7:U:66:ARG:NH1	2.20	0.54
2:A:114:LYS:HE3	2:A:116:TYR:CE1	2.43	0.53
2:A:543:LYS:O	2:A:544:ASN:HB2	2.08	0.53
2:A:724:GLY:O	2:A:727:TYR:HB2	2.08	0.53
2:A:816:PRO:HA	2:C:215:SER:HB2	1.90	0.53
2:B:453:TYR:HE2	2:B:510:HIS:CA	2.19	0.53
2:B:475:ALA:C	2:B:477:MET:N	2.64	0.53
2:C:471:LYS:HD3	2:C:476:TYR:CE2	2.43	0.53
2:C:638:ILE:CG1	2:C:876:MET:HG2	2.38	0.53
2:C:874:LEU:HD12	2:C:875:ASP:N	2.24	0.53
2:D:756:VAL:HG23	2:D:768:PHE:CE1	2.42	0.53
2:D:904:PRO:HG2	2:D:908:VAL:CG2	2.37	0.53
2:E:44:LYS:HG3	2:E:45:PHE:CD1	2.43	0.53
2:E:62:GLN:HE22	2:E:597:HIS:CE1	2.26	0.53
2:E:124:LEU:O	2:F:801:PHE:HD2	1.91	0.53
2:E:132:PRO:O	2:E:203:LEU:HB2	2.08	0.53
2:E:144:ARG:NE	2:E:144:ARG:CA	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:351:ASP:OD2	2:E:764:MET:HB3	2.08	0.53
2:F:69:VAL:CG1	2:F:70:PRO:HD2	2.35	0.53
2:F:309:PHE:HE2	2:F:533:ILE:CD1	2.18	0.53
2:F:382:VAL:HG21	2:F:439:ALA:CA	2.30	0.53
2:F:749:ILE:HD11	2:F:755:TYR:CE1	2.43	0.53
2:F:796:HIS:O	2:F:796:HIS:CD2	2.61	0.53
2:G:493:ILE:O	2:G:493:ILE:HG23	2.08	0.53
2:G:573:ASP:OD1	2:G:673:THR:HA	2.08	0.53
2:H:67:ARG:HH11	2:H:67:ARG:HG2	1.72	0.53
2:H:70:PRO:HG2	2:H:73:ARG:NH2	2.23	0.53
2:H:252:THR:HG22	2:H:253:PRO:HD3	0.62	0.53
2:H:549:PRO:HD2	2:H:604:GLU:OE1	2.08	0.53
2:H:824:ILE:HG22	2:H:825:GLY:N	2.23	0.53
2:I:273:HIS:ND1	2:I:478:ASN:OD1	2.41	0.53
2:I:919:SER:OG	2:I:920:ALA:N	2.40	0.53
2:J:120:ALA:O	2:J:122:ASN:N	2.40	0.53
2:J:153:ASN:CB	2:J:161:GLN:HG3	2.21	0.53
2:J:323:VAL:HG21	2:J:555:GLU:HB3	1.89	0.53
2:J:417:ASN:C	2:J:418:TYR:CD1	2.86	0.53
2:J:512:ARG:HA	2:J:517:ARG:HH11	1.73	0.53
2:J:795:GLN:OE1	2:J:819:TYR:HB2	2.07	0.53
2:K:220:THR:O	2:K:220:THR:OG1	2.18	0.53
2:K:323:VAL:HG12	2:K:332:ASN:HD21	1.72	0.53
2:K:643:ARG:HH11	2:K:643:ARG:CB	2.21	0.53
2:L:91:ASN:HD21	7:U:92:PRO:HG2	1.73	0.53
2:L:625:MET:HE1	2:L:893:PHE:CE2	2.42	0.53
2:L:746:HIS:NE2	2:L:845:ARG:HD3	2.23	0.53
2:L:824:ILE:HG22	2:L:825:GLY:N	2.23	0.53
2:L:826:GLN:CD	2:L:826:GLN:H	2.15	0.53
3:M:185:VAL:HG12	3:M:185:VAL:O	2.08	0.53
6:P:35:VAL:HG12	6:P:36:MET:H	1.72	0.53
6:S:18:SER:N	6:S:19:PRO:HD3	2.22	0.53
2:A:113:PHE:CD1	2:A:303:ILE:HB	2.30	0.53
2:A:129:ALA:HA	2:C:188:TRP:NE1	2.23	0.53
2:A:274:LEU:HD23	2:A:294:GLN:O	2.08	0.53
2:A:815:TYR:CZ	2:C:203:LEU:HD11	2.42	0.53
2:B:661:THR:HG22	2:B:678:VAL:HG12	1.89	0.53
2:B:698:PHE:C	2:B:702:VAL:HG22	2.33	0.53
2:C:272:THR:HA	2:C:296:ALA:O	2.08	0.53
2:C:387:PRO:O	2:C:389:TYR:HB2	2.08	0.53
2:C:663:SER:C	2:C:664:LEU:HD12	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:207:THR:HG22	2:D:267:ILE:HG13	1.90	0.53
2:D:257:LYS:HE3	2:F:402:TYR:CE1	2.43	0.53
2:D:312:LEU:O	2:D:313:MET:HG2	2.08	0.53
2:D:632:ASN:HA	2:D:883:MET:O	2.08	0.53
2:D:740:LEU:O	2:D:740:LEU:HD23	2.08	0.53
2:E:114:LYS:HZ1	2:E:298:ASN:N	2.06	0.53
2:E:244:LEU:C	2:E:244:LEU:HD23	2.33	0.53
2:E:529:VAL:O	2:E:529:VAL:HG23	2.08	0.53
2:F:178:GLN:HB2	2:F:179:PRO:HD2	0.68	0.53
2:F:382:VAL:O	2:F:384:ASP:N	2.38	0.53
2:F:515:GLY:O	2:F:516:LEU:HB3	2.08	0.53
2:G:121:TYR:OH	2:H:822:PRO:HG3	2.09	0.53
2:G:375:ARG:NH1	2:G:507:PRO:HG3	2.23	0.53
2:G:774:MET:O	2:G:775:SER:HB2	2.08	0.53
2:H:103:ILE:HG12	2:H:586:ILE:CD1	2.38	0.53
2:H:162:ILE:HG22	2:H:162:ILE:O	2.08	0.53
2:H:260:LEU:N	2:H:260:LEU:CD2	2.71	0.53
2:H:320:ASN:CB	2:H:557:ASN:HD22	2.19	0.53
2:H:529:VAL:O	2:H:529:VAL:HG13	2.07	0.53
2:J:119:THR:HG22	2:J:120:ALA:N	2.21	0.53
2:J:908:VAL:HG23	2:J:908:VAL:O	2.07	0.53
2:K:98:SER:HB3	2:L:751:TYR:O	2.07	0.53
2:K:406:LYS:HZ3	2:K:408:ASN:HB3	1.72	0.53
2:K:809:MET:HB2	2:L:389:TYR:OH	2.08	0.53
2:L:67:ARG:CD	2:L:589:TYR:HE1	2.21	0.53
3:M:260:ARG:NH2	3:M:361:LEU:HD13	2.23	0.53
3:M:352:PRO:O	3:M:353:LYS:HB2	2.08	0.53
5:O:183:VAL:HG12	5:O:187:GLU:CG	2.38	0.53
2:A:459:LYS:HD2	2:A:480:ARG:HB3	1.89	0.53
2:A:711:LEU:HB2	2:C:65:THR:CG2	2.38	0.53
2:B:62:GLN:HE22	2:B:92:ARG:CG	2.21	0.53
2:B:204:LYS:HG3	2:B:205:ASP:OD2	2.08	0.53
2:B:226:GLN:HB3	2:B:265:VAL:CG2	2.38	0.53
2:B:430:ILE:O	2:B:430:ILE:CG2	2.51	0.53
2:B:458:TYR:HE2	2:B:501:PRO:CB	2.21	0.53
2:B:881:ASP:HB3	2:B:882:PRO:CD	2.38	0.53
2:C:106:VAL:O	2:C:106:VAL:CG2	2.44	0.53
2:C:198:VAL:O	2:C:258:ALA:HB1	2.08	0.53
2:C:329:SER:O	2:C:330:GLN:C	2.50	0.53
2:D:116:TYR:C	2:D:116:TYR:HD1	2.13	0.53
2:D:141:ILE:HG13	2:D:247:PHE:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:192:VAL:CG2	2:D:257:LYS:HG3	2.39	0.53
2:D:680:TYR:HD1	2:D:890:TYR:CE2	2.26	0.53
2:E:62:GLN:HE21	2:E:92:ARG:HH11	1.56	0.53
2:E:160:ILE:O	2:E:170:PRO:HG3	2.09	0.53
2:E:458:TYR:CE2	2:E:501:PRO:HB3	2.43	0.53
2:E:697:MET:HG2	2:E:697:MET:O	2.08	0.53
2:F:171:ILE:HG12	2:F:173:ALA:H	1.74	0.53
2:G:356:ARG:O	2:G:358:ARG:N	2.40	0.53
2:G:453:TYR:CE2	2:G:510:HIS:CD2	2.96	0.53
2:G:549:PRO:HD2	2:G:604:GLU:HG3	1.91	0.53
2:G:574:LEU:HA	2:G:577:ASP:OD1	2.08	0.53
2:H:148:PRO:CG	2:H:148:PRO:O	2.50	0.53
2:H:160:ILE:C	2:H:197:LYS:HE3	2.33	0.53
2:I:522:LEU:HD12	2:I:522:LEU:O	2.09	0.53
2:I:638:ILE:HG13	2:I:876:MET:HB3	1.90	0.53
2:J:99:THR:HB	2:J:588:LEU:HD11	1.89	0.53
2:J:109:ARG:O	2:J:109:ARG:HG2	2.07	0.53
2:J:302:TYR:HB2	2:J:516:LEU:HD21	1.91	0.53
2:K:135:TRP:HB2	2:K:141:ILE:CB	2.38	0.53
2:K:210:LEU:HD12	2:K:267:ILE:HG21	1.91	0.53
2:K:643:ARG:HG2	2:K:644:ASN:N	2.23	0.53
2:K:686:TYR:HA	2:K:840:ASP:OD1	2.08	0.53
2:K:786:GLU:O	2:K:786:GLU:HG3	2.08	0.53
2:L:19:ASP:N	2:L:22:GLU:OE2	2.41	0.53
5:O:119:GLN:O	5:O:119:GLN:CG	2.57	0.53
5:O:151:LEU:HD13	5:O:189:TYR:CE2	2.43	0.53
6:Q:16:VAL:O	6:Q:18:SER:N	2.41	0.53
6:S:4:SER:O	6:S:5:MET:C	2.50	0.53
1:4:18:PHE:CD1	1:4:18:PHE:O	2.61	0.53
2:A:10:TRP:HD1	2:A:10:TRP:N	2.02	0.53
2:A:53:THR:O	2:A:54:HIS:C	2.51	0.53
2:A:459:LYS:HG2	2:A:481:VAL:C	2.33	0.53
2:A:563:ASN:OD1	2:A:574:LEU:HB2	2.08	0.53
2:B:331:LEU:HD11	3:M:469:ARG:HD3	1.90	0.53
2:B:785:LYS:O	2:B:786:GLU:HG3	2.09	0.53
2:B:902:HIS:CD2	2:B:904:PRO:HB3	2.44	0.53
2:C:147:ALA:HB1	2:C:199:ALA:C	2.32	0.53
2:C:327:GLN:O	2:C:327:GLN:HG2	2.08	0.53
2:C:445:PHE:O	2:C:445:PHE:HD1	1.92	0.53
2:D:67:ARG:HG2	2:D:67:ARG:O	2.08	0.53
2:D:406:LYS:HD2	2:D:410:GLN:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:709:ARG:HH11	2:D:709:ARG:HG2	1.74	0.53
2:D:729:VAL:HG22	2:D:730:ALA:N	2.22	0.53
2:D:890:TYR:CE1	2:D:892:LEU:CD1	2.91	0.53
2:E:12:TYR:O	2:E:13:MET:HE2	2.09	0.53
2:E:109:ARG:NH2	2:E:523:LEU:HB2	2.20	0.53
2:E:209:MET:HE2	2:E:290:LEU:HB2	1.89	0.53
2:E:281:ALA:HB1	2:E:290:LEU:HD21	1.90	0.53
2:E:651:TRP:HB2	2:E:846:ILE:CG2	2.38	0.53
2:E:795:GLN:HG2	2:E:819:TYR:HB2	1.90	0.53
2:E:900:ARG:O	2:E:900:ARG:CG	2.57	0.53
2:E:908:VAL:HG23	2:E:908:VAL:O	2.08	0.53
2:F:67:ARG:HH21	2:F:587:ASN:ND2	2.06	0.53
2:F:94:LEU:HD12	2:F:592:PHE:CE1	2.44	0.53
2:F:176:THR:HB	2:F:201:ARG:CD	2.38	0.53
2:F:323:VAL:O	2:F:554:TYR:HA	2.09	0.53
2:F:466:THR:C	2:F:467:LEU:HD22	2.34	0.53
2:G:101:PHE:CE1	2:G:554:TYR:HE1	2.27	0.53
2:G:255:GLU:CG	2:G:256:PRO:HD2	2.38	0.53
2:G:797:ASN:HA	2:G:817:ALA:HA	1.90	0.53
2:G:809:MET:HB2	2:H:389:TYR:HE2	1.70	0.53
2:H:214:GLY:O	2:H:215:SER:C	2.50	0.53
2:H:302:TYR:HB3	2:H:520:SER:HB3	1.89	0.53
2:H:315:TYR:HB3	2:H:342:THR:CG2	2.38	0.53
2:H:461:THR:N	2:H:480:ARG:HE	2.06	0.53
2:H:658:THR:HB	2:H:888:LEU:HD23	1.89	0.53
2:H:774:MET:O	2:H:775:SER:OG	2.25	0.53
2:I:109:ARG:NH2	2:I:524:GLY:O	2.41	0.53
2:I:740:LEU:HD21	2:I:744:LEU:HD22	1.90	0.53
2:I:750:GLY:HA2	2:I:754:PHE:HE1	1.71	0.53
2:J:334:VAL:CG1	2:J:542:ILE:HG13	2.38	0.53
2:J:573:ASP:OD1	2:J:673:THR:HA	2.08	0.53
2:J:867:TYR:CD1	2:J:867:TYR:O	2.62	0.53
2:K:371:ASP:HB2	2:K:512:ARG:HG2	1.91	0.53
2:K:561:ASP:OD2	2:K:575:ARG:NH1	2.41	0.53
2:K:800:GLY:C	2:K:801:PHE:HD1	2.17	0.53
2:L:313:MET:O	2:L:556:TRP:NE1	2.41	0.53
2:L:389:TYR:HB3	2:L:391:PHE:CE1	2.42	0.53
2:L:655:ARG:NH1	2:L:883:MET:HB2	2.16	0.53
3:M:53:ILE:HG13	3:M:111:PHE:CD1	2.39	0.53
3:M:69:LEU:CD1	3:M:93:VAL:HG11	2.37	0.53
3:M:207:ASP:OD2	3:M:211:PHE:CZ	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:235:ASP:OD2	3:M:342:SER:OG	2.26	0.53
6:Q:21:LEU:HD23	6:Q:21:LEU:C	2.34	0.53
7:T:99:VAL:O	7:T:103:ASN:ND2	2.42	0.53
7:T:221:ASN:O	7:T:229:VAL:HA	2.08	0.53
7:U:34:LEU:O	7:U:34:LEU:HD23	2.07	0.53
2:A:8:PRO:O	2:A:9:GLN:C	2.51	0.53
2:A:310:ILE:HD11	2:A:343:GLU:CA	2.37	0.53
2:A:547:LEU:HD12	2:A:903:GLN:OE1	2.08	0.53
2:A:820:PRO:O	2:A:820:PRO:CG	2.57	0.53
2:B:317:SER:C	2:B:319:GLY:N	2.64	0.53
2:B:489:THR:O	2:B:493:ILE:HD11	2.09	0.53
2:B:546:LEU:HB3	2:B:614:GLN:NE2	2.24	0.53
2:B:900:ARG:NH1	2:B:900:ARG:HG3	2.24	0.53
2:C:94:LEU:HD23	2:C:95:ASP:C	2.34	0.53
2:C:544:ASN:O	2:C:616:PHE:HE2	1.92	0.53
2:C:613:ASP:HB3	2:C:901:ILE:O	2.09	0.53
2:C:768:PHE:C	2:C:770:ASN:H	2.15	0.53
2:D:24:LEU:HD13	2:E:612:ASN:HD22	1.73	0.53
2:D:121:TYR:O	2:D:122:ASN:C	2.51	0.53
2:D:407:ALA:O	2:D:409:GLY:N	2.42	0.53
2:D:609:ASN:O	2:D:611:THR:N	2.37	0.53
2:E:44:LYS:HB2	2:F:616:PHE:HE1	1.74	0.53
2:E:399:THR:OG1	2:E:426:GLU:HA	2.07	0.53
2:E:651:TRP:HE3	2:E:846:ILE:HG23	1.74	0.53
2:E:655:ARG:NH1	2:E:690:THR:HG21	2.15	0.53
2:F:90:ASP:OD1	2:F:91:ASN:N	2.42	0.53
2:F:202:VAL:O	2:F:202:VAL:HG23	2.07	0.53
2:F:621:CYS:HB3	2:F:895:VAL:O	2.07	0.53
2:G:28:LEU:CA	2:H:606:MET:HE2	2.38	0.53
2:G:140:LYS:CE	2:I:419:ALA:H	2.21	0.53
2:G:642:SER:HA	2:G:872:HIS:O	2.07	0.53
2:G:833:THR:CG2	2:I:530:PRO:HD2	2.38	0.53
2:H:261:TYR:N	2:H:261:TYR:HD1	2.07	0.53
2:H:637:PRO:CB	2:H:877:THR:HG22	2.38	0.53
2:H:654:THR:OG1	2:H:688:ASN:HB3	2.09	0.53
2:I:161:GLN:CA	2:I:169:GLN:OE1	2.55	0.53
2:I:175:LYS:CB	2:I:175:LYS:HZ1	2.18	0.53
2:I:624:ASN:OD1	2:I:892:LEU:HD21	2.08	0.53
2:I:734:MET:HE2	2:I:738:TRP:HD1	1.74	0.53
2:J:94:LEU:HD23	2:J:94:LEU:C	2.33	0.53
2:J:593:PHE:HE1	2:K:851:ASN:HD22	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:914:LEU:HD23	2:L:13:MET:HG3	1.89	0.53
2:K:78:TYR:CD2	2:K:668:PHE:HD2	2.26	0.53
2:K:383:GLU:OE2	2:K:383:GLU:HA	2.09	0.53
2:L:316:ASN:HD21	2:L:340:ARG:CB	2.15	0.53
2:L:661:THR:HG22	2:L:680:TYR:CB	2.16	0.53
5:O:216:LEU:HD21	5:O:262:LEU:HD11	1.91	0.53
1:3:19:MET:SD	1:3:25:ILE:HG12	2.48	0.53
2:A:3:THR:O	2:A:3:THR:OG1	2.21	0.53
2:A:94:LEU:CD1	2:A:590:ALA:HB1	2.39	0.53
2:A:316:ASN:N	2:A:336:ASP:OD2	2.42	0.53
2:A:468:PRO:HG2	2:A:475:ALA:HB3	1.91	0.53
2:A:680:TYR:CE1	2:A:890:TYR:CE1	2.97	0.53
2:A:697:MET:HE3	2:A:697:MET:O	2.08	0.53
2:A:796:HIS:HB2	2:A:818:ASN:ND2	2.23	0.53
2:B:61:SER:O	2:B:62:GLN:HG2	2.08	0.53
2:B:136:LYS:HD2	2:B:137:ASP:N	2.24	0.53
2:B:204:LYS:CB	2:B:263:GLU:C	2.81	0.53
2:B:221:ASN:C	2:B:223:LYS:H	2.17	0.53
2:B:303:ILE:HG22	2:B:304:GLY:N	2.22	0.53
2:B:516:LEU:HD23	2:B:516:LEU:C	2.34	0.53
2:B:548:LEU:HB3	2:B:549:PRO:HD2	1.90	0.53
2:B:748:ASN:ND2	2:B:854:SER:O	2.42	0.53
2:C:125:ALA:HB1	2:C:126:PRO:CD	2.39	0.53
2:C:562:VAL:HG21	2:C:579:ALA:HB1	1.88	0.53
2:C:895:VAL:HG23	2:C:917:PRO:CD	2.39	0.53
2:D:62:GLN:NE2	2:D:92:ARG:HB3	2.24	0.53
2:D:71:VAL:CG2	2:D:85:THR:HG23	2.36	0.53
2:D:90:ASP:N	2:D:90:ASP:OD1	2.42	0.53
2:D:175:LYS:HG2	2:D:223:LYS:HG2	1.90	0.53
2:D:360:PHE:CD1	2:E:768:PHE:HZ	2.26	0.53
2:D:377:ILE:HG22	2:D:497:TRP:O	2.09	0.53
2:D:389:TYR:HH	2:F:809:MET:HA	1.74	0.53
2:E:86:LEU:HD21	2:E:588:LEU:HD21	1.89	0.53
2:E:200:GLY:CA	2:F:813:GLN:NE2	2.72	0.53
2:E:502:MET:O	2:E:502:MET:CG	2.57	0.53
2:F:337:LEU:CD2	4:N:191:LYS:NZ	2.71	0.53
2:F:655:ARG:HH22	2:F:883:MET:CB	2.20	0.53
2:F:792:LEU:N	2:F:793:PRO:HD2	2.22	0.53
2:F:874:LEU:C	2:F:874:LEU:HD12	2.34	0.53
2:G:249:LEU:CD1	2:G:252:THR:HG23	2.39	0.53
2:G:316:ASN:HA	2:G:336:ASP:OD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:323:VAL:HA	2:G:332:ASN:OD1	2.09	0.53
2:G:497:TRP:HZ3	2:G:775:SER:CA	2.22	0.53
2:G:709:ARG:HB2	2:G:709:ARG:CZ	2.39	0.53
2:G:845:ARG:O	2:G:846:ILE:HG13	2.08	0.53
2:G:902:HIS:O	2:G:903:GLN:C	2.50	0.53
2:H:103:ILE:HG23	2:H:586:ILE:HD11	1.90	0.53
2:H:407:ALA:O	2:H:410:GLN:NE2	2.41	0.53
2:H:800:GLY:HA3	2:H:813:GLN:H	1.74	0.53
2:I:64:LEU:HD11	2:I:594:PRO:HD3	1.91	0.53
2:I:64:LEU:CD1	2:I:594:PRO:HD3	2.38	0.53
2:I:103:ILE:HD12	2:I:533:ILE:CD1	2.26	0.53
2:I:447:TYR:O	2:I:452:LEU:HD13	2.08	0.53
2:I:709:ARG:C	2:I:710:LEU:HD22	2.33	0.53
2:J:67:ARG:HA	2:J:589:TYR:HE1	1.73	0.53
2:J:490:TYR:CE2	2:J:819:TYR:HD2	2.26	0.53
2:K:222:GLU:C	2:K:224:GLY:H	2.16	0.53
2:K:246:PHE:CD1	2:K:259:VAL:CG1	2.88	0.53
2:L:184:GLY:C	2:L:186:THR:N	2.65	0.53
2:L:643:ARG:HG3	2:L:643:ARG:NH1	2.16	0.53
3:M:215:TRP:CD1	3:M:280:PRO:HB3	2.44	0.53
3:M:260:ARG:O	3:M:261:LEU:HB2	2.08	0.53
4:N:170:GLN:O	4:N:171:PRO:C	2.50	0.53
5:O:179:LEU:HD22	5:O:247:ILE:HG22	1.90	0.53
5:O:207:VAL:HB	7:T:205:ASN:HB2	1.90	0.53
7:T:58:GLN:O	7:T:58:GLN:HG2	2.08	0.53
1:4:13:HIS:CE1	1:4:15:SER:HB2	2.44	0.53
1:5:19:MET:O	1:5:19:MET:HG2	2.07	0.53
1:8:12:ARG:CZ	1:8:12:ARG:HB2	2.38	0.53
2:A:28:LEU:N	2:B:606:MET:HE1	2.24	0.53
2:A:94:LEU:HB2	2:A:592:PHE:HE1	1.72	0.53
2:A:334:VAL:O	2:A:334:VAL:HG13	2.09	0.53
2:A:435:ILE:O	2:A:437:LEU:N	2.39	0.53
2:A:496:ARG:O	2:A:774:MET:HB3	2.09	0.53
2:A:565:ILE:HG13	2:A:566:LEU:HD13	1.89	0.53
2:A:706:GLY:C	2:A:708:ASP:H	2.17	0.53
2:A:791:THR:O	2:A:792:LEU:C	2.52	0.53
2:C:154:ILE:O	2:C:154:ILE:CG1	2.57	0.53
2:C:166:THR:OG1	2:C:167:THR:N	2.40	0.53
2:C:363:TRP:O	2:C:364:ASN:C	2.51	0.53
2:C:636:VAL:HG11	2:C:889:LEU:CD1	2.37	0.53
2:C:819:TYR:CD1	2:C:819:TYR:C	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:110:GLY:O	2:E:112:SER:N	2.37	0.53
2:E:271:ASP:O	2:E:272:THR:HG23	2.09	0.53
2:E:782:THR:O	2:E:782:THR:OG1	2.17	0.53
2:F:114:LYS:HE2	2:F:298:ASN:HB2	1.91	0.53
2:F:241:ASP:O	2:F:241:ASP:OD1	2.27	0.53
2:F:324:LEU:O	2:F:333:ALA:HB3	2.09	0.53
2:F:352:ALA:HA	2:F:763:ARG:HD3	1.91	0.53
2:F:435:ILE:CG2	2:F:437:LEU:HD22	2.38	0.53
2:G:107:LEU:CD2	2:G:109:ARG:HG3	2.39	0.53
2:G:107:LEU:HD23	2:G:107:LEU:C	2.34	0.53
2:G:269:ALA:O	2:G:271:ASP:N	2.40	0.53
2:G:522:LEU:HD23	2:G:522:LEU:O	2.09	0.53
2:H:127:LYS:O	2:H:128:THR:OG1	2.24	0.53
2:H:466:THR:O	2:H:467:LEU:HD12	2.09	0.53
2:H:888:LEU:HD12	2:H:889:LEU:O	2.08	0.53
2:I:545:LEU:HD23	2:I:545:LEU:C	2.34	0.53
2:I:735:THR:OG1	2:I:737:ASP:OD1	2.27	0.53
2:J:254:ASN:CG	2:J:255:GLU:HG3	2.32	0.53
2:J:418:TYR:HB3	2:J:421:ARG:HB2	1.91	0.53
2:K:692:LYS:HE3	2:K:879:GLU:OE2	2.09	0.53
2:L:219:PRO:HB3	2:L:226:GLN:OE1	2.09	0.53
2:L:452:LEU:O	2:L:459:LYS:HE2	2.09	0.53
2:L:529:VAL:O	2:L:529:VAL:HG13	2.08	0.53
2:L:892:LEU:HD23	2:L:892:LEU:C	2.33	0.53
7:T:16:GLN:O	7:T:17:MET:C	2.50	0.53
2:A:83:ARG:HA	2:A:555:GLU:HB2	1.91	0.53
2:B:863:GLN:O	2:B:866:LEU:HB2	2.09	0.53
2:C:154:ILE:CG1	2:C:197:LYS:HZ2	2.06	0.53
2:C:375:ARG:NE	2:C:507:PRO:HG3	2.24	0.53
2:C:599:THR:O	2:C:599:THR:CG2	2.46	0.53
2:C:623:ALA:HB3	2:C:893:PHE:HB2	1.91	0.53
2:C:704:TRP:HZ3	2:C:861:LEU:CD2	2.22	0.53
2:C:861:LEU:HD12	2:C:864:ASN:HB3	1.90	0.53
2:D:131:ASN:OD1	2:D:212:CYS:HA	2.09	0.53
2:D:228:SER:CB	2:D:241:ASP:N	2.72	0.53
2:D:405:ILE:N	2:D:412:TRP:O	2.42	0.53
2:D:704:TRP:HH2	2:D:861:LEU:HD12	1.73	0.53
2:E:96:MET:CE	2:E:99:THR:HG21	2.37	0.53
2:E:107:LEU:HD21	2:E:109:ARG:HG3	1.90	0.53
2:E:129:ALA:HB3	2:E:212:CYS:HB2	1.91	0.53
2:E:148:PRO:HG2	2:E:148:PRO:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:218:LYS:NZ	2:F:786:GLU:HG2	2.23	0.53
2:E:533:ILE:HG21	2:E:535:VAL:CG1	2.37	0.53
2:E:648:PHE:HZ	2:E:651:TRP:CD1	2.25	0.53
2:E:885:GLU:O	2:E:886:PRO:C	2.50	0.53
2:F:202:VAL:HG11	2:F:260:LEU:HD23	1.90	0.53
2:F:679:PRO:HG2	2:F:686:TYR:HE1	1.72	0.53
2:G:768:PHE:HZ	2:I:360:PHE:HB2	1.73	0.53
2:H:89:GLY:O	2:H:549:PRO:HB3	2.09	0.53
2:H:121:TYR:CD1	2:I:820:PRO:HG3	2.43	0.53
2:H:181:PRO:O	2:H:181:PRO:CD	2.50	0.53
2:H:252:THR:CB	2:H:253:PRO:CD	2.77	0.53
2:H:272:THR:H	2:H:298:ASN:ND2	2.07	0.53
2:H:379:ASN:HD21	2:H:493:ILE:HD12	1.73	0.53
2:I:131:ASN:OD1	2:I:131:ASN:N	2.41	0.53
2:I:411:THR:O	2:I:412:TRP:C	2.52	0.53
2:I:574:LEU:H	2:I:574:LEU:HD12	1.73	0.53
2:I:593:PHE:O	2:I:595:MET:N	2.40	0.53
2:J:103:ILE:HD13	2:J:312:LEU:HD21	1.91	0.53
2:J:275:VAL:HG22	2:J:294:GLN:O	2.08	0.53
2:J:435:ILE:HG12	2:K:389:TYR:O	2.08	0.53
2:J:837:PHE:O	2:J:837:PHE:CG	2.62	0.53
2:K:290:LEU:C	2:K:290:LEU:HD12	2.33	0.53
5:O:118:VAL:C	5:O:120:ALA:H	2.16	0.53
2:A:65:THR:HG21	2:B:711:LEU:HB2	1.90	0.53
2:A:297:PRO:HG2	2:B:385:GLU:HG3	1.89	0.53
2:A:702:VAL:CG1	2:E:921:GLY:H	2.22	0.53
2:B:136:LYS:HD3	2:B:141:ILE:CG1	2.38	0.53
2:B:156:LYS:HG3	2:B:169:GLN:NE2	2.24	0.53
2:B:299:ARG:HB3	2:B:300:PRO:CD	2.20	0.53
2:B:894:GLU:O	2:B:895:VAL:CB	2.56	0.53
2:B:895:VAL:O	2:B:895:VAL:HG13	2.05	0.53
2:C:184:GLY:HA2	2:C:191:GLU:OE2	2.09	0.53
2:C:228:SER:O	2:C:229:LEU:C	2.51	0.53
2:C:614:GLN:O	2:C:615:SER:HB2	2.09	0.53
2:C:706:GLY:O	2:C:707:ASN:HB2	2.09	0.53
2:C:738:TRP:HA	2:C:741:ILE:HD12	1.91	0.53
2:D:49:THR:O	2:E:857:ALA:HB3	2.09	0.53
2:D:105:GLY:H	2:D:531:PHE:HD2	1.56	0.53
2:D:193:GLY:C	2:D:195:ALA:H	2.16	0.53
2:D:208:PRO:O	2:D:210:LEU:N	2.41	0.53
2:D:249:LEU:CD1	2:D:250:PRO:CD	2.65	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:352:ALA:O	2:D:353:LEU:HD22	2.09	0.53
2:D:401:THR:HG21	2:E:247:PHE:CD1	2.43	0.53
2:D:686:TYR:CE1	2:D:687:LEU:HG	2.44	0.53
2:E:175:LYS:HD3	2:E:175:LYS:N	2.15	0.53
2:E:403:SER:N	2:F:250:PRO:N	2.56	0.53
2:E:698:PHE:HB2	2:E:702:VAL:CG2	2.38	0.53
2:F:113:PHE:O	2:F:115:PRO:N	2.42	0.53
2:F:339:ASP:OD1	2:F:915:ARG:NH1	2.40	0.53
2:G:176:THR:HG23	2:G:261:TYR:CD2	2.44	0.53
2:G:197:LYS:NZ	2:G:256:PRO:HG2	2.24	0.53
2:G:459:LYS:HD2	2:G:480:ARG:HB3	1.91	0.53
2:G:497:TRP:CD2	2:G:776:ARG:HD3	2.43	0.53
2:G:912:VAL:O	2:G:912:VAL:HG13	2.09	0.53
2:H:620:LEU:C	2:H:620:LEU:HD23	2.33	0.53
2:H:682:ASP:O	2:H:682:ASP:OD1	2.27	0.53
2:I:274:LEU:CD2	2:I:293:GLN:HE21	2.21	0.53
2:I:436:ASN:O	2:I:439:ALA:N	2.42	0.53
2:I:694:VAL:HG13	2:I:878:PHE:CD1	2.44	0.53
2:J:306:ARG:HG2	2:J:565:ILE:O	2.09	0.53
2:J:645:TRP:NE1	2:J:872:HIS:HB2	2.23	0.53
2:K:216:TYR:CZ	2:K:265:VAL:HG22	2.44	0.53
2:K:272:THR:CG2	2:K:295:ALA:HB1	2.38	0.53
2:K:731:GLN:N	2:K:731:GLN:OE1	2.42	0.53
2:L:466:THR:C	2:L:467:LEU:HD22	2.32	0.53
2:L:636:VAL:CG1	2:L:889:LEU:HD22	2.26	0.53
2:L:653:PHE:CE2	2:L:846:ILE:HD11	2.44	0.53
2:L:656:LEU:HD11	2:L:661:THR:HG21	1.91	0.53
3:M:288:TYR:C	3:M:289:GLU:HG3	2.33	0.53
6:P:5:MET:HE1	6:Q:16:VAL:HG13	1.90	0.53
2:B:26:PRO:HA	2:B:29:VAL:HG12	1.90	0.53
2:B:131:ASN:O	2:B:133:CYS:N	2.42	0.53
2:B:149:PHE:HB2	2:B:177:TYR:HD2	1.74	0.53
2:B:252:THR:O	2:B:253:PRO:C	2.51	0.53
2:B:445:PHE:O	2:B:445:PHE:CD2	2.60	0.53
2:B:470:ASN:C	2:B:472:ASN:N	2.67	0.53
2:B:544:ASN:HB2	2:B:616:PHE:HE2	1.73	0.53
2:B:823:LEU:C	2:B:824:ILE:HD12	2.34	0.53
2:C:186:THR:HG22	2:C:186:THR:O	2.07	0.53
2:C:376:ILE:HD12	2:C:376:ILE:N	2.24	0.53
2:C:382:VAL:HG22	2:C:439:ALA:HA	1.91	0.53
2:C:767:PHE:CE1	2:C:771:PHE:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:813:GLN:CG	2:C:814:ALA:H	2.19	0.53
2:D:158:ASN:OD1	2:D:171:ILE:HG13	2.09	0.53
2:D:192:VAL:C	2:D:195:ALA:H	2.17	0.53
2:D:711:LEU:HD12	2:D:737:ASP:OD2	2.09	0.53
2:E:95:ASP:C	2:E:97:ALA:H	2.15	0.53
2:E:242:VAL:CG1	2:E:263:GLU:HA	2.39	0.53
2:E:545:LEU:HD22	2:E:901:ILE:HD13	1.90	0.53
2:E:899:VAL:HG22	2:E:913:TYR:CD1	2.44	0.53
2:F:309:PHE:CZ	2:F:533:ILE:HB	2.44	0.53
2:F:492:ASN:HD21	2:F:497:TRP:HD1	1.55	0.53
2:F:615:SER:HA	2:F:899:VAL:O	2.09	0.53
2:G:25:SER:OG	2:H:612:ASN:ND2	2.42	0.53
2:G:74:GLU:OE1	2:G:81:LYS:HD2	2.09	0.53
2:G:122:ASN:HA	2:H:798:ASN:HA	1.91	0.53
2:G:135:TRP:CD1	2:G:288:ALA:HB2	2.44	0.53
2:G:286:SER:O	2:G:286:SER:OG	2.17	0.53
2:G:307:ASP:O	2:G:308:ASN:C	2.50	0.53
2:G:371:ASP:C	2:G:373:ASP:H	2.12	0.53
2:G:687:LEU:O	2:G:690:THR:HG22	2.09	0.53
2:G:802:VAL:HG12	2:G:803:GLY:H	1.74	0.53
2:H:21:SER:O	2:H:29:VAL:HG21	2.08	0.53
2:H:99:THR:HA	2:H:589:TYR:O	2.09	0.53
2:H:249:LEU:CD2	2:H:257:LYS:HB2	2.39	0.53
2:I:895:VAL:CG1	2:I:917:PRO:HB2	2.38	0.53
2:J:5:SER:OG	2:K:869:ASN:ND2	2.34	0.53
2:J:109:ARG:HB2	2:J:303:ILE:CD1	2.39	0.53
2:J:324:LEU:CD2	2:J:542:ILE:HD12	2.39	0.53
2:J:351:ASP:OD1	2:J:356:ARG:HG3	2.09	0.53
2:K:107:LEU:HD21	2:K:109:ARG:HG3	1.91	0.53
2:K:291:LEU:O	2:K:292:THR:C	2.49	0.53
2:L:135:TRP:CE2	2:L:288:ALA:HB2	2.43	0.53
2:L:150:ILE:HD12	2:L:183:VAL:HG23	1.90	0.53
2:L:298:ASN:HB3	2:L:478:ASN:ND2	2.23	0.53
2:L:447:TYR:CD2	2:L:484:PRO:HG3	2.44	0.53
5:O:76:PRO:HG2	5:O:80:LYS:HZ3	1.74	0.53
5:O:148:GLN:O	5:O:152:ASN:HB2	2.09	0.53
5:O:209:LEU:HD22	5:O:212:ALA:N	2.24	0.53
6:P:20:TYR:HB2	6:R:20:TYR:CE1	2.44	0.53
6:S:19:PRO:O	6:S:20:TYR:CG	2.62	0.53
7:U:33:TRP:CE3	7:U:34:LEU:HA	2.43	0.53
7:U:41:ILE:HA	7:U:44:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:17:PRO:O	1:4:17:PRO:CD	2.56	0.52
2:A:68:PHE:CB	2:A:588:LEU:HB3	2.39	0.52
2:A:376:ILE:HG22	2:A:376:ILE:O	2.08	0.52
2:A:379:ASN:OD1	2:A:493:ILE:HG13	2.09	0.52
2:B:84:PHE:CE2	2:B:588:LEU:HB2	2.43	0.52
2:B:154:ILE:O	2:B:154:ILE:CG1	2.57	0.52
2:B:661:THR:CG2	2:B:678:VAL:HG12	2.39	0.52
2:C:19:ASP:OD1	2:C:20:ALA:N	2.42	0.52
2:C:259:VAL:HG22	2:C:260:LEU:N	2.24	0.52
2:C:348:LEU:O	2:C:351:ASP:N	2.39	0.52
2:C:799:SER:OG	2:C:814:ALA:N	2.42	0.52
2:D:44:LYS:HD3	2:D:44:LYS:N	2.23	0.52
2:D:110:GLY:C	2:D:527:ARG:HH11	2.17	0.52
2:D:183:VAL:HG22	2:F:429:ASN:HB2	1.91	0.52
2:D:581:VAL:HG11	2:D:583:PHE:CZ	2.44	0.52
2:D:639:SER:O	2:D:640:ILE:HD13	2.09	0.52
2:D:655:ARG:NH1	2:D:880:VAL:HB	2.24	0.52
2:D:800:GLY:C	2:D:802:VAL:N	2.66	0.52
2:E:113:PHE:CD1	2:E:115:PRO:HD3	2.44	0.52
2:E:188:TRP:C	2:E:190:SER:N	2.59	0.52
2:E:201:ARG:H	2:F:813:GLN:NE2	2.04	0.52
2:E:619:TYR:CD1	2:E:619:TYR:O	2.62	0.52
2:E:643:ARG:N	2:E:872:HIS:O	2.41	0.52
2:F:161:GLN:CG	2:F:161:GLN:O	2.55	0.52
2:F:307:ASP:CB	2:F:519:ARG:HH12	2.21	0.52
2:F:582:ARG:HG2	2:F:582:ARG:NH1	2.23	0.52
2:F:739:PHE:O	2:F:740:LEU:C	2.48	0.52
2:G:56:VAL:HG21	2:I:38:TYR:CZ	2.44	0.52
2:G:316:ASN:OD1	2:G:342:THR:HG22	2.09	0.52
2:G:811:GLU:OE2	2:I:183:VAL:C	2.53	0.52
2:H:104:ARG:HD3	2:H:532:HIS:CD2	2.43	0.52
2:H:121:TYR:HE1	2:I:820:PRO:CB	2.22	0.52
2:H:282:GLN:NE2	2:H:285:ILE:HG23	2.25	0.52
2:H:450:VAL:O	2:H:450:VAL:CG1	2.57	0.52
2:H:525:ASN:O	2:I:777:GLN:HG3	2.09	0.52
2:H:662:PRO:HD3	2:H:678:VAL:CG2	2.38	0.52
2:I:290:LEU:HD12	2:I:293:GLN:CD	2.34	0.52
2:J:160:ILE:HD12	2:J:175:LYS:CD	2.39	0.52
2:J:188:TRP:HB3	2:K:809:MET:CE	2.30	0.52
2:J:380:HIS:NE2	2:L:521:MET:HE1	2.23	0.52
2:J:434:GLU:OE1	2:L:126:PRO:CB	2.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:451:ALA:O	2:J:454:LEU:N	2.42	0.52
2:J:589:TYR:HE2	2:K:736:LYS:NZ	1.96	0.52
2:K:61:SER:OG	2:L:707:ASN:CB	2.56	0.52
2:L:119:THR:HG23	2:L:271:ASP:OD1	2.10	0.52
2:L:219:PRO:HG2	2:L:219:PRO:O	2.08	0.52
2:L:219:PRO:CA	2:L:226:GLN:HB3	2.39	0.52
2:L:242:VAL:HG13	2:L:262:ALA:O	2.09	0.52
2:L:758:GLU:HG2	2:L:759:SER:N	2.24	0.52
7:U:74:TRP:HB2	7:U:187:GLY:O	2.09	0.52
2:A:52:PRO:HG2	2:A:56:VAL:CG1	2.38	0.52
2:A:222:GLU:N	2:B:788:GLN:HE21	2.07	0.52
2:B:139:ASN:C	2:B:141:ILE:N	2.67	0.52
2:B:455:PRO:C	2:B:457:SER:H	2.17	0.52
2:B:661:THR:HG21	2:B:680:TYR:HB2	1.90	0.52
2:B:663:SER:O	2:B:664:LEU:HB2	2.09	0.52
2:C:268:GLU:O	2:C:269:ALA:HB2	2.09	0.52
2:C:365:GLN:O	2:C:365:GLN:CG	2.58	0.52
2:C:595:MET:O	2:C:596:ALA:C	2.51	0.52
2:C:627:TYR:CE2	2:C:638:ILE:HG21	2.44	0.52
2:C:801:PHE:N	2:C:801:PHE:CD1	2.76	0.52
2:D:211:PRO:HB3	2:D:295:ALA:HB2	1.91	0.52
2:D:276:TYR:O	2:D:277:LYS:C	2.46	0.52
2:D:582:ARG:HH11	2:D:582:ARG:HG2	1.74	0.52
2:E:154:ILE:CG2	2:E:197:LYS:HG2	2.38	0.52
2:E:188:TRP:HD1	2:F:292:THR:HG23	1.73	0.52
2:E:375:ARG:HD3	2:E:507:PRO:CG	2.40	0.52
2:E:658:THR:O	2:E:661:THR:HG22	2.10	0.52
2:E:833:THR:O	2:E:833:THR:CG2	2.54	0.52
2:E:890:TYR:CE1	2:E:892:LEU:HD12	2.44	0.52
2:F:94:LEU:HD12	2:F:592:PHE:CZ	2.45	0.52
2:F:94:LEU:HD23	2:F:94:LEU:C	2.35	0.52
2:F:312:LEU:O	2:F:312:LEU:HD23	2.08	0.52
2:F:511:HIS:HA	2:F:569:SER:OG	2.09	0.52
2:G:88:VAL:CG2	2:G:549:PRO:HA	2.38	0.52
2:G:95:ASP:C	2:G:97:ALA:H	2.14	0.52
2:G:96:MET:HE1	2:G:547:LEU:HD22	1.90	0.52
2:G:144:ARG:HA	2:G:144:ARG:HE	1.74	0.52
2:G:249:LEU:HD12	2:G:252:THR:CG2	2.39	0.52
2:G:813:GLN:NE2	2:I:148:PRO:HB3	2.23	0.52
2:H:343:GLU:HB2	2:H:681:LEU:HB2	1.91	0.52
2:H:421:ARG:HH22	2:I:142:LYS:NZ	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:740:LEU:HD23	2:H:744:LEU:HD23	1.90	0.52
2:I:444:SER:O	2:I:448:SER:HB3	2.08	0.52
2:I:545:LEU:HD12	2:I:901:ILE:HG13	1.90	0.52
2:I:561:ASP:OD1	2:I:575:ARG:NH1	2.42	0.52
2:I:871:ALA:O	2:I:872:HIS:ND1	2.42	0.52
2:J:375:ARG:NH2	2:J:838:LEU:HD21	2.24	0.52
2:J:383:GLU:OE2	2:L:512:ARG:HD3	2.08	0.52
2:J:687:LEU:HD21	2:J:883:MET:HE1	1.90	0.52
2:K:241:ASP:O	2:K:242:VAL:C	2.51	0.52
2:K:744:LEU:HD12	2:K:853:MET:HG3	1.91	0.52
2:L:629:ILE:HD12	2:L:889:LEU:HB2	1.90	0.52
3:M:356:VAL:O	3:M:356:VAL:HG12	2.08	0.52
6:Q:50:SER:HA	6:Q:53:LEU:HD22	1.89	0.52
7:U:38:PRO:HA	7:U:41:ILE:HG22	1.90	0.52
2:A:3:THR:N	2:A:4:PRO:CD	2.65	0.52
2:A:57:THR:O	2:A:596:ALA:HA	2.09	0.52
2:A:107:LEU:HB3	2:A:529:VAL:HG13	1.90	0.52
2:A:515:GLY:O	2:A:519:ARG:HG3	2.08	0.52
2:A:812:GLY:CA	2:C:181:PRO:HB3	2.38	0.52
2:B:102:ASP:CB	2:B:589:TYR:HE1	2.22	0.52
2:C:65:THR:O	2:C:65:THR:HG23	2.07	0.52
2:C:72:ASP:CB	2:C:83:ARG:HH11	2.23	0.52
2:C:95:ASP:OD1	2:C:97:ALA:N	2.25	0.52
2:C:114:LYS:HE3	2:C:298:ASN:CB	2.35	0.52
2:C:314:TYR:OH	2:C:667:GLY:HA3	2.09	0.52
2:C:323:VAL:HG23	2:C:332:ASN:CG	2.33	0.52
2:C:338:GLN:HG2	2:C:338:GLN:O	2.09	0.52
2:C:620:LEU:HD21	2:C:892:LEU:HD13	1.90	0.52
2:D:88:VAL:CG1	2:D:549:PRO:HA	2.36	0.52
2:D:154:ILE:HG23	2:D:259:VAL:HG21	1.92	0.52
2:D:171:ILE:CG2	2:D:172:TYR:N	2.72	0.52
2:D:378:GLU:HB3	2:D:380:HIS:CD2	2.44	0.52
2:D:415:ASP:O	2:E:141:ILE:HG23	2.09	0.52
2:E:310:ILE:HD12	2:E:682:ASP:HA	1.92	0.52
2:E:651:TRP:HD1	2:E:893:PHE:CE1	2.27	0.52
2:E:721:THR:HG23	2:E:722:VAL:HG12	1.90	0.52
2:F:643:ARG:NH1	2:H:699:ASP:CB	2.71	0.52
2:G:431:PHE:O	2:G:432:ALA:HB2	2.09	0.52
2:G:500:ASP:OD1	2:G:501:PRO:CD	2.57	0.52
2:G:625:MET:C	2:G:626:LEU:HD12	2.34	0.52
2:G:650:GLY:O	2:G:894:GLU:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:913:TYR:N	2:G:913:TYR:CD1	2.77	0.52
2:H:250:PRO:HD2	2:H:252:THR:N	2.16	0.52
2:H:436:ASN:HD22	2:H:439:ALA:CB	2.19	0.52
2:H:899:VAL:CG1	2:H:901:ILE:HD11	2.39	0.52
2:I:26:PRO:HA	2:I:29:VAL:HG12	1.91	0.52
2:I:858:LEU:CD2	2:I:863:GLN:OE1	2.58	0.52
2:J:226:GLN:NE2	2:K:817:ALA:O	2.42	0.52
2:J:390:CYS:SG	2:J:433:MET:CG	2.80	0.52
2:J:405:ILE:HA	2:J:412:TRP:CB	2.39	0.52
2:J:425:ILE:O	2:J:425:ILE:HG23	2.08	0.52
2:J:622:ALA:HB2	2:J:894:GLU:CG	2.39	0.52
2:J:858:LEU:CD2	2:J:863:GLN:HG2	2.39	0.52
2:K:26:PRO:O	2:K:29:VAL:HG12	2.09	0.52
2:K:264:ASN:O	2:K:265:VAL:HB	2.10	0.52
2:K:401:THR:HG21	2:K:418:TYR:CE2	2.45	0.52
2:L:135:TRP:CH2	2:L:141:ILE:HD12	2.44	0.52
2:L:176:THR:CB	2:L:201:ARG:HH11	2.22	0.52
2:L:787:TYR:CD1	2:L:788:GLN:N	2.77	0.52
1:5:26:GLY:C	1:5:28:SER:N	2.65	0.52
2:A:16:ALA:HB2	2:B:858:LEU:CD1	2.35	0.52
2:A:222:GLU:C	2:A:224:GLY:N	2.67	0.52
2:B:343:GLU:O	2:B:344:LEU:C	2.52	0.52
2:B:757:PRO:HD2	2:B:768:PHE:CD2	2.44	0.52
2:C:96:MET:HA	2:C:99:THR:HG22	1.90	0.52
2:C:313:MET:HE3	2:C:556:TRP:CD1	2.44	0.52
2:C:562:VAL:HB	2:C:579:ALA:CB	2.38	0.52
2:C:744:LEU:HD11	2:C:853:MET:CB	2.39	0.52
2:C:859:THR:OG1	2:C:862:GLY:N	2.42	0.52
2:D:324:LEU:O	2:D:333:ALA:HB3	2.09	0.52
2:D:388:ASN:CA	2:F:440:ASN:HD21	2.23	0.52
2:D:484:PRO:O	2:D:488:ASP:HB2	2.10	0.52
2:D:791:THR:O	2:D:795:GLN:HB2	2.10	0.52
2:D:808:THR:HG22	2:D:809:MET:H	1.75	0.52
2:E:15:ILE:CG1	2:F:896:PHE:HD2	2.22	0.52
2:E:76:THR:O	2:E:77:ALA:HB3	2.09	0.52
2:E:312:LEU:HD12	2:E:565:ILE:CG2	2.39	0.52
2:E:462:PRO:HG2	2:E:465:ILE:HD11	1.92	0.52
2:E:507:PRO:CD	2:E:686:TYR:HB2	2.39	0.52
2:E:745:SER:HB3	2:E:847:PRO:HG3	1.92	0.52
2:E:919:SER:HB2	7:T:106:ALA:CB	2.28	0.52
2:F:154:ILE:HD13	2:F:259:VAL:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:406:LYS:HE2	2:F:408:ASN:HB2	1.92	0.52
2:G:140:LYS:HD3	2:I:418:TYR:HA	1.92	0.52
2:G:220:THR:HG23	2:G:227:ALA:H	1.75	0.52
2:G:629:ILE:HG12	2:G:636:VAL:HB	1.92	0.52
2:G:779:VAL:HG12	2:G:829:VAL:CG2	2.38	0.52
2:H:316:ASN:HB2	2:H:664:LEU:HD11	1.90	0.52
2:H:349:MET:HE1	2:H:543:LYS:HD3	1.91	0.52
2:H:671:TYR:HE2	6:P:48:ALA:HB2	1.74	0.52
2:H:777:GLN:HB3	2:H:831:SER:HB2	1.92	0.52
2:H:874:LEU:C	2:H:874:LEU:HD23	2.34	0.52
2:H:905:HIS:O	2:H:908:VAL:HG12	2.09	0.52
2:I:349:MET:CE	2:I:543:LYS:HD3	2.40	0.52
2:I:691:PHE:CD1	2:I:880:VAL:HG12	2.44	0.52
2:I:727:TYR:HA	2:I:736:LYS:CD	2.39	0.52
2:J:390:CYS:O	2:L:433:MET:SD	2.67	0.52
2:J:418:TYR:O	2:J:419:ALA:C	2.50	0.52
2:J:502:MET:O	2:J:505:VAL:HG12	2.10	0.52
2:J:545:LEU:HD12	2:J:546:LEU:N	2.23	0.52
2:J:800:GLY:HA2	2:J:812:GLY:N	2.24	0.52
2:K:252:THR:OG1	2:K:254:ASN:N	2.41	0.52
2:K:618:ASP:OD1	2:K:620:LEU:N	2.42	0.52
2:K:634:THR:HG22	2:K:635:SER:N	2.24	0.52
2:K:691:PHE:HD1	2:K:880:VAL:HG12	1.74	0.52
2:K:701:SER:OG	7:T:16:GLN:NE2	2.42	0.52
2:L:154:ILE:O	2:L:154:ILE:HG23	2.08	0.52
2:L:197:LYS:NZ	2:L:197:LYS:N	2.44	0.52
2:L:221:ASN:CG	2:L:222:GLU:H	2.16	0.52
2:L:323:VAL:HG12	2:L:555:GLU:CG	2.38	0.52
2:L:369:SER:N	2:L:513:ASN:OD1	2.42	0.52
2:L:497:TRP:CE3	2:L:774:MET:HB3	2.45	0.52
5:O:263:GLY:O	5:O:264:HIS:C	2.51	0.52
6:S:26:PRO:O	6:S:26:PRO:CG	2.58	0.52
7:U:38:PRO:HA	7:U:41:ILE:HG23	1.92	0.52
2:A:56:VAL:O	2:A:56:VAL:CG1	2.39	0.52
2:A:624:ASN:ND2	2:A:624:ASN:C	2.65	0.52
2:A:655:ARG:HH12	2:A:883:MET:CG	2.14	0.52
2:A:731:GLN:HG2	2:C:532:HIS:O	2.10	0.52
2:B:94:LEU:HD23	2:B:94:LEU:C	2.34	0.52
2:B:168:ASN:ND2	2:B:168:ASN:C	2.67	0.52
2:B:442:TRP:O	2:B:445:PHE:N	2.42	0.52
2:B:443:ARG:C	2:B:445:PHE:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:653:PHE:O	2:B:654:THR:OG1	2.27	0.52
2:C:135:TRP:CE3	2:C:287:SER:HB2	2.44	0.52
2:C:289:ASP:O	2:C:292:THR:N	2.39	0.52
2:C:635:SER:HA	2:C:878:PHE:O	2.10	0.52
2:D:160:ILE:N	2:D:160:ILE:CD1	2.48	0.52
2:D:410:GLN:HB2	2:E:156:LYS:HZ1	1.75	0.52
2:E:112:SER:HB2	2:E:577:ASP:OD2	2.10	0.52
2:E:116:TYR:HE2	2:F:824:ILE:CG1	2.22	0.52
2:E:177:TYR:HE1	2:F:799:SER:HA	1.73	0.52
2:E:450:VAL:CG2	2:E:502:MET:HE1	2.39	0.52
2:E:711:LEU:CD1	2:E:727:TYR:HE1	2.22	0.52
2:E:897:ASP:OD1	2:E:915:ARG:HD3	2.08	0.52
2:E:906:ARG:HB2	2:E:906:ARG:HH11	1.75	0.52
2:F:308:ASN:HD21	2:F:356:ARG:NH1	2.06	0.52
2:F:356:ARG:CZ	2:F:367:VAL:HG12	2.40	0.52
2:F:447:TYR:OH	2:F:807:PRO:HG2	2.10	0.52
2:G:100:TYR:CD2	2:G:363:TRP:HH2	2.28	0.52
2:G:156:LYS:NZ	2:I:412:TRP:CG	2.72	0.52
2:G:248:ALA:HB3	2:I:403:SER:N	2.24	0.52
2:G:658:THR:HG22	2:G:888:LEU:CD2	2.40	0.52
2:G:771:PHE:O	2:G:771:PHE:CG	2.61	0.52
2:G:788:GLN:HE21	2:I:222:GLU:N	2.07	0.52
2:H:289:ASP:HA	2:H:291:LEU:HD13	1.91	0.52
2:H:474:TYR:HB2	2:H:572:ASN:HD22	1.73	0.52
2:H:660:GLU:HB2	2:H:674:TYR:CE2	2.44	0.52
2:H:705:PRO:HG2	2:H:713:PRO:O	2.10	0.52
2:I:246:PHE:CD1	2:I:259:VAL:HG23	2.44	0.52
2:I:323:VAL:CG1	2:I:332:ASN:HB3	2.37	0.52
2:I:651:TRP:CD1	2:I:876:MET:HE1	2.45	0.52
2:J:25:SER:H	2:K:612:ASN:ND2	2.03	0.52
2:J:416:ASP:HB2	2:K:140:LYS:HZ1	1.74	0.52
2:J:437:LEU:O	2:J:438:ALA:HB2	2.09	0.52
2:J:645:TRP:HB3	2:J:648:PHE:HB2	1.90	0.52
2:J:729:VAL:HG12	2:J:734:MET:O	2.09	0.52
2:K:572:ASN:O	2:K:675:SER:OG	2.15	0.52
2:L:198:VAL:O	2:L:258:ALA:HA	2.09	0.52
3:M:323:SER:OG	3:M:438:GLU:CB	2.56	0.52
4:N:182:LYS:CD	4:N:184:GLU:OE1	2.57	0.52
5:O:54:ARG:NH1	5:O:54:ARG:HB3	2.24	0.52
5:O:210:THR:HG22	5:O:210:THR:O	2.08	0.52
6:R:17:PHE:O	6:R:18:SER:HB3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:32:ARG:CG	6:R:32:ARG:NH2	2.64	0.52
7:U:16:GLN:O	7:U:17:MET:HE2	2.09	0.52
1:0:20:ALA:C	1:0:22:ARG:H	2.17	0.52
1:3:24:GLU:HG2	1:3:24:GLU:O	2.09	0.52
2:A:222:GLU:O	2:A:224:GLY:N	2.43	0.52
2:B:13:MET:HG3	2:C:914:LEU:CD1	2.39	0.52
2:B:116:TYR:CD2	2:C:493:ILE:HD11	2.45	0.52
2:B:136:LYS:HD2	2:B:137:ASP:H	1.73	0.52
2:B:458:TYR:CE2	2:B:501:PRO:HB3	2.45	0.52
2:B:668:PHE:O	2:B:669:ASP:C	2.52	0.52
2:B:859:THR:O	2:B:860:ASP:C	2.52	0.52
2:C:86:LEU:HD12	2:C:588:LEU:HD21	1.91	0.52
2:C:127:LYS:O	2:C:128:THR:C	2.51	0.52
2:C:156:LYS:C	2:C:158:ASN:H	2.17	0.52
2:C:375:ARG:NH1	2:C:503:ASP:O	2.40	0.52
2:C:377:ILE:O	2:C:377:ILE:CG1	2.58	0.52
2:D:223:LYS:O	2:D:223:LYS:CG	2.56	0.52
2:D:453:TYR:HH	2:D:511:HIS:CG	2.21	0.52
2:D:739:PHE:O	2:D:741:ILE:N	2.43	0.52
2:E:100:TYR:CE1	2:E:363:TRP:HH2	2.27	0.52
2:E:121:TYR:OH	2:F:822:PRO:HB3	2.10	0.52
2:E:306:ARG:HA	2:E:519:ARG:HH12	1.73	0.52
2:E:447:TYR:HD2	2:F:386:LEU:CD2	2.23	0.52
2:F:128:THR:O	2:F:128:THR:CG2	2.43	0.52
2:F:218:LYS:CB	2:F:219:PRO:HD3	2.39	0.52
2:F:243:ASN:C	2:F:244:LEU:HD23	2.35	0.52
2:F:695:SER:HB3	6:R:28:TRP:CZ2	2.36	0.52
2:G:276:TYR:O	2:G:276:TYR:CD2	2.62	0.52
2:G:299:ARG:HH21	2:G:453:TYR:HE1	1.58	0.52
2:G:484:PRO:HD2	2:G:806:GLY:H	1.75	0.52
2:G:581:VAL:HG22	2:G:583:PHE:HE1	1.74	0.52
2:G:741:ILE:HD11	2:G:852:PHE:CD2	2.45	0.52
2:H:45:PHE:HE1	2:I:614:GLN:HB3	1.75	0.52
2:H:100:TYR:CD2	2:H:534:GLN:HB3	2.44	0.52
2:H:103:ILE:HA	2:H:586:ILE:HD13	1.90	0.52
2:H:110:GLY:HA2	2:H:527:ARG:HH12	1.75	0.52
2:H:359:TYR:OH	2:H:514:ALA:HB1	2.10	0.52
2:H:670:PRO:O	6:P:38:SER:N	2.42	0.52
2:I:63:ARG:HD2	2:I:65:THR:O	2.09	0.52
2:I:94:LEU:HD11	2:I:590:ALA:HB1	1.92	0.52
2:I:175:LYS:NZ	2:I:175:LYS:HB2	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:309:PHE:CD2	2:I:535:VAL:HG22	2.39	0.52
2:I:762:ASP:OD1	2:I:763:ARG:N	2.42	0.52
2:I:902:HIS:O	2:I:902:HIS:CG	2.61	0.52
2:J:809:MET:CE	2:L:393:LEU:HD21	2.40	0.52
2:K:44:LYS:C	2:K:45:PHE:HD1	2.18	0.52
2:K:107:LEU:HD22	2:K:109:ARG:HG3	1.92	0.52
2:K:251:SER:O	2:K:252:THR:C	2.53	0.52
2:K:335:VAL:CG2	2:K:913:TYR:CD2	2.92	0.52
2:K:548:LEU:CB	2:K:608:ARG:HH21	2.23	0.52
2:K:803:GLY:HA3	2:K:808:THR:O	2.09	0.52
2:L:35:THR:HG23	2:L:38:TYR:CE1	2.44	0.52
2:L:171:ILE:O	2:L:172:TYR:C	2.52	0.52
2:L:306:ARG:HH21	2:L:567:GLN:HA	1.75	0.52
2:L:565:ILE:O	2:L:566:LEU:HD12	2.10	0.52
2:L:643:ARG:N	2:L:872:HIS:O	2.35	0.52
2:L:647:ALA:CB	2:L:916:THR:HG21	2.40	0.52
3:M:89:PHE:CD2	3:M:91:THR:HG23	2.44	0.52
3:M:274:LEU:HD13	3:M:343:TRP:CA	2.39	0.52
6:S:26:PRO:CD	6:S:26:PRO:O	2.55	0.52
7:T:33:TRP:CE3	7:T:41:ILE:HD12	2.44	0.52
7:T:92:PRO:O	7:T:93:ARG:HB3	2.08	0.52
7:T:180:SER:OG	7:T:181:SER:N	2.42	0.52
7:U:107:GLN:CG	7:U:107:GLN:O	2.57	0.52
1:3:25:ILE:O	1:3:25:ILE:CG2	2.56	0.52
1:5:21:THR:OG1	2:D:50:VAL:HG13	2.10	0.52
2:A:114:LYS:HA	2:B:824:ILE:CG2	2.40	0.52
2:A:589:TYR:CE2	2:B:736:LYS:NZ	2.78	0.52
2:A:610:ASP:OD1	2:A:610:ASP:C	2.53	0.52
2:A:656:LEU:CD1	2:A:661:THR:HG21	2.38	0.52
2:B:100:TYR:CD2	2:B:363:TRP:CH2	2.98	0.52
2:B:289:ASP:CA	2:B:291:LEU:CG	2.87	0.52
2:B:454:LEU:CD2	2:B:502:MET:HB3	2.40	0.52
2:B:486:ALA:C	2:B:487:LEU:HD12	2.35	0.52
2:B:895:VAL:O	2:B:895:VAL:CG1	2.55	0.52
2:C:302:TYR:HB3	2:C:520:SER:CB	2.40	0.52
2:C:593:PHE:C	2:C:593:PHE:CD1	2.86	0.52
2:C:712:THR:HG22	2:C:712:THR:O	2.08	0.52
2:D:20:ALA:HA	2:D:23:TYR:CE2	2.44	0.52
2:D:358:ARG:HH21	2:E:769:ARG:NH1	2.08	0.52
2:D:849:SER:OG	2:D:852:PHE:N	2.41	0.52
2:E:107:LEU:CD1	2:E:305:PHE:HE1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:116:TYR:CE2	2:F:824:ILE:HD11	2.44	0.52
2:E:143:VAL:HG12	2:E:144:ARG:NH2	2.24	0.52
2:E:188:TRP:O	2:E:189:ASN:C	2.52	0.52
2:E:202:VAL:HG12	2:E:203:LEU:N	2.24	0.52
2:E:510:HIS:CD2	2:E:511:HIS:H	2.25	0.52
2:F:131:ASN:OD1	2:F:212:CYS:HA	2.09	0.52
2:F:506:ASN:HB3	2:F:686:TYR:CE1	2.45	0.52
2:F:714:ASN:HD22	2:J:338:GLN:CD	2.16	0.52
2:G:127:LYS:N	2:H:434:GLU:OE1	2.37	0.52
2:G:174:ASP:HA	2:G:201:ARG:NH2	2.24	0.52
2:H:103:ILE:CD1	2:H:533:ILE:HD11	2.40	0.52
2:H:267:ILE:HG22	2:H:268:GLU:N	2.23	0.52
2:H:382:VAL:HG11	2:H:439:ALA:HB2	1.92	0.52
2:H:491:VAL:C	2:H:492:ASN:OD1	2.53	0.52
2:H:743:MET:SD	2:H:749:ILE:HD11	2.49	0.52
2:I:349:MET:HA	2:I:619:TYR:HD2	1.75	0.52
2:I:673:THR:O	2:I:673:THR:HG23	2.08	0.52
2:J:374:VAL:HG21	2:J:449:ASN:CG	2.34	0.52
2:J:653:PHE:HB3	2:J:891:VAL:HA	1.92	0.52
2:J:857:ALA:HB3	2:L:49:THR:O	2.10	0.52
2:K:252:THR:N	2:K:253:PRO:CD	2.72	0.52
2:K:316:ASN:HB3	2:K:336:ASP:OD1	2.10	0.52
2:K:404:GLY:CA	2:K:413:THR:HG22	2.40	0.52
2:K:744:LEU:HD11	2:K:853:MET:CG	2.40	0.52
2:L:781:THR:HA	2:L:787:TYR:CD2	2.45	0.52
3:M:374:VAL:CG1	3:M:480:ILE:CG2	2.87	0.52
7:U:57:GLU:O	7:U:61:LEU:HD22	2.09	0.52
1:5:22:TRP:NE1	2:D:49:THR:HB	2.25	0.52
2:A:94:LEU:HD11	2:A:590:ALA:HB1	1.92	0.52
2:A:355:ASP:OD1	2:A:357:SER:HB3	2.10	0.52
2:B:88:VAL:HG21	2:B:548:LEU:O	2.09	0.52
2:B:179:PRO:O	2:B:181:PRO:N	2.43	0.52
2:B:475:ALA:O	2:B:477:MET:N	2.43	0.52
2:B:682:ASP:OD1	2:B:683:GLY:N	2.42	0.52
2:C:113:PHE:CE2	2:C:115:PRO:HB3	2.44	0.52
2:C:486:ALA:HB3	2:C:792:LEU:CD1	2.40	0.52
2:C:693:LYS:HE2	2:C:879:GLU:OE1	2.09	0.52
2:C:721:THR:O	2:C:722:VAL:C	2.53	0.52
2:C:783:THR:O	2:C:784:TYR:C	2.53	0.52
2:C:798:ASN:O	2:C:799:SER:C	2.52	0.52
2:D:130:PRO:O	2:D:131:ASN:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:447:TYR:CZ	2:E:385:GLU:HB2	2.45	0.52
2:D:730:ALA:O	2:D:732:CYS:SG	2.67	0.52
2:D:849:SER:HB2	2:D:860:ASP:OD1	2.09	0.52
2:E:103:ILE:HB	2:E:533:ILE:HB	1.92	0.52
2:E:244:LEU:HD21	2:E:246:PHE:CZ	2.44	0.52
2:E:574:LEU:HA	2:E:577:ASP:OD1	2.10	0.52
2:E:881:ASP:OD1	2:E:882:PRO:N	2.43	0.52
2:F:189:ASN:O	2:F:191:GLU:HB2	2.09	0.52
2:F:389:TYR:HA	2:F:434:GLU:HA	1.92	0.52
2:F:453:TYR:CE2	2:F:510:HIS:HA	2.44	0.52
2:G:140:LYS:HE2	2:I:419:ALA:H	1.75	0.52
2:G:288:ALA:O	2:G:291:LEU:N	2.43	0.52
2:G:289:ASP:C	2:G:291:LEU:N	2.67	0.52
2:G:893:PHE:CD2	2:G:918:PHE:HE2	2.28	0.52
2:H:16:ALA:HB1	2:H:50:VAL:HG11	1.92	0.52
2:H:150:ILE:HD12	2:H:183:VAL:HG23	1.92	0.52
2:H:378:GLU:O	2:H:380:HIS:N	2.43	0.52
2:H:400:ASP:C	2:H:424:GLU:HG3	2.35	0.52
2:H:462:PRO:HB2	2:H:465:ILE:CG2	2.35	0.52
2:H:481:VAL:HG21	2:H:807:PRO:CG	2.37	0.52
2:I:268:GLU:O	2:I:268:GLU:HG3	2.10	0.52
2:I:316:ASN:OD1	2:I:340:ARG:N	2.43	0.52
2:I:406:LYS:O	2:I:406:LYS:CG	2.49	0.52
2:J:114:LYS:HA	2:K:824:ILE:HD12	1.92	0.52
2:J:162:ILE:HG12	2:J:170:PRO:HD3	1.91	0.52
2:J:186:THR:O	2:J:186:THR:CG2	2.55	0.52
2:J:417:ASN:C	2:J:418:TYR:CG	2.88	0.52
2:J:471:LYS:HA	2:J:476:TYR:CE2	2.44	0.52
2:J:561:ASP:OD1	2:J:575:ARG:NH1	2.42	0.52
2:J:649:ARG:NH1	2:J:894:GLU:OE1	2.43	0.52
2:J:751:TYR:CE2	2:L:593:PHE:HA	2.45	0.52
2:J:851:ASN:OD1	2:J:853:MET:HB2	2.10	0.52
2:K:94:LEU:HB2	2:K:592:PHE:HE1	1.75	0.52
2:K:315:TYR:CZ	2:K:538:LYS:HB2	2.44	0.52
2:K:370:TYR:CD2	2:K:508:PHE:HE1	2.28	0.52
2:K:371:ASP:O	2:K:374:VAL:HG12	2.09	0.52
2:K:483:VAL:HG11	2:K:805:MET:HE3	1.92	0.52
2:K:642:SER:HA	2:K:873:ALA:CA	2.39	0.52
2:K:718:ILE:O	2:K:734:MET:HA	2.10	0.52
2:L:62:GLN:NE2	2:L:92:ARG:HE	2.08	0.52
2:L:81:LYS:HE3	2:L:555:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:458:TYR:OH	2:L:501:PRO:HB3	2.09	0.52
3:M:189:LEU:CD2	3:M:193:ARG:HD2	2.40	0.52
3:M:271:TYR:CE1	3:M:341:ARG:HD2	2.45	0.52
5:O:115:SER:OG	5:O:116:THR:N	2.42	0.52
7:U:52:ASN:ND2	7:U:202:VAL:HG21	2.25	0.52
1:4:23:ASN:OD1	2:C:19:ASP:HB2	2.10	0.52
2:A:328:ALA:O	2:A:329:SER:C	2.52	0.52
2:A:497:TRP:CE2	2:A:836:LYS:CD	2.92	0.52
2:A:897:ASP:HA	2:A:915:ARG:HG2	1.92	0.52
2:B:8:PRO:HB3	7:T:18:GLY:CA	2.39	0.52
2:B:191:GLU:CD	2:B:195:ALA:HB3	2.35	0.52
2:B:302:TYR:HE2	2:B:517:ARG:CG	2.20	0.52
2:B:608:ARG:NH2	2:B:906:ARG:HA	2.25	0.52
2:B:746:HIS:ND1	2:B:767:PHE:HB2	2.25	0.52
2:B:849:SER:OG	2:B:850:SER:N	2.36	0.52
2:B:860:ASP:O	2:B:861:LEU:C	2.53	0.52
2:C:20:ALA:HA	2:C:23:TYR:CE2	2.45	0.52
2:C:54:HIS:O	2:C:55:ASP:HB2	2.10	0.52
2:C:349:MET:CE	2:C:543:LYS:HE3	2.40	0.52
2:D:205:ASP:HA	2:D:285:ILE:CD1	2.40	0.52
2:D:451:ALA:O	2:D:454:LEU:HG	2.10	0.52
2:D:741:ILE:CD1	2:D:852:PHE:HD2	2.22	0.52
2:E:91:ASN:ND2	2:E:597:HIS:HB3	2.25	0.52
2:E:116:TYR:CE2	2:F:824:ILE:CD1	2.93	0.52
2:E:138:ASN:ND2	2:E:138:ASN:C	2.59	0.52
2:E:188:TRP:CD1	2:E:189:ASN:H	2.27	0.52
2:E:509:ASN:ND2	2:E:674:TYR:OH	2.43	0.52
2:E:567:GLN:CG	2:E:568:SER:H	2.23	0.52
2:E:638:ILE:HD11	2:E:876:MET:CG	2.39	0.52
2:E:800:GLY:O	2:E:801:PHE:C	2.52	0.52
2:F:642:SER:HA	2:F:873:ALA:HB2	1.92	0.52
2:F:710:LEU:HD21	2:F:716:PHE:CE1	2.45	0.52
2:G:270:PRO:HG3	2:H:822:PRO:HG3	1.91	0.52
2:G:545:LEU:HD11	2:G:903:GLN:HE21	1.74	0.52
2:G:608:ARG:NH2	2:G:906:ARG:O	2.43	0.52
2:G:652:SER:OG	2:G:892:LEU:HD22	2.08	0.52
2:G:694:VAL:O	2:G:694:VAL:HG13	2.09	0.52
2:H:157:ASP:C	2:H:159:GLY:N	2.66	0.52
2:H:161:GLN:N	2:H:197:LYS:NZ	2.57	0.52
2:H:282:GLN:HG2	2:H:284:THR:H	1.74	0.52
2:H:745:SER:CB	2:H:847:PRO:HG3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:246:PHE:HD1	2:I:259:VAL:HG23	1.75	0.52
2:I:302:TYR:CE2	2:I:517:ARG:HG3	2.45	0.52
2:I:729:VAL:HB	2:I:736:LYS:CA	2.40	0.52
2:I:741:ILE:HD12	2:I:852:PHE:CD2	2.44	0.52
2:J:405:ILE:HA	2:J:412:TRP:HB2	1.91	0.52
2:J:455:PRO:O	2:J:456:ASP:C	2.52	0.52
2:J:549:PRO:HD2	2:J:604:GLU:OE1	2.10	0.52
2:J:809:MET:HA	2:K:389:TYR:OH	2.09	0.52
2:L:95:ASP:OD1	2:L:97:ALA:HB3	2.09	0.52
2:L:154:ILE:HG22	2:L:259:VAL:CG2	2.35	0.52
2:L:564:MET:HE2	2:L:662:PRO:HG3	1.92	0.52
2:L:658:THR:CG2	2:L:886:PRO:HG2	2.39	0.52
2:L:740:LEU:HD11	2:L:744:LEU:HD22	1.92	0.52
3:M:133:ASN:OD1	3:M:490:TYR:OH	2.27	0.52
2:A:122:ASN:HA	2:B:797:ASN:ND2	2.25	0.52
2:A:497:TRP:NE1	2:A:836:LYS:CD	2.70	0.52
2:A:500:ASP:N	2:A:501:PRO:HD2	2.25	0.52
2:A:655:ARG:CZ	2:A:880:VAL:HG11	2.40	0.52
2:A:699:ASP:HA	2:A:873:ALA:O	2.09	0.52
2:A:851:ASN:O	2:A:853:MET:N	2.40	0.52
2:A:878:PHE:CD2	2:A:889:LEU:HD11	2.29	0.52
2:C:171:ILE:HD11	2:C:178:GLN:HG2	1.91	0.52
2:C:310:ILE:HG12	2:C:343:GLU:OE2	2.10	0.52
2:C:345:SER:C	2:C:347:GLN:N	2.53	0.52
2:D:96:MET:O	2:D:99:THR:HG23	2.09	0.52
2:D:113:PHE:HE2	2:D:520:SER:HG	1.56	0.52
2:D:363:TRP:C	2:D:365:GLN:H	2.18	0.52
2:D:808:THR:CG2	2:D:809:MET:N	2.73	0.52
2:E:153:ASN:OD1	2:E:154:ILE:N	2.42	0.52
2:E:160:ILE:HD11	2:E:199:ALA:CB	2.37	0.52
2:E:348:LEU:HB3	2:E:619:TYR:HE2	1.74	0.52
2:E:467:LEU:HD11	2:E:479:GLY:HA3	1.92	0.52
2:E:787:TYR:O	2:E:788:GLN:C	2.52	0.52
2:E:829:VAL:O	2:E:829:VAL:CG2	2.57	0.52
2:F:72:ASP:CB	2:F:83:ARG:HB2	2.39	0.52
2:F:137:ASP:OD2	2:F:288:ALA:HB2	2.10	0.52
2:F:335:VAL:O	2:F:335:VAL:HG13	2.10	0.52
2:F:728:ASN:O	2:F:728:ASN:OD1	2.27	0.52
2:F:797:ASN:C	2:F:799:SER:N	2.65	0.52
2:G:500:ASP:HA	2:G:503:ASP:CG	2.34	0.52
2:G:548:LEU:CD1	2:G:604:GLU:HA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:718:ILE:O	2:G:719:LYS:HB2	2.09	0.52
2:G:798:ASN:HD21	2:I:124:LEU:CD1	2.15	0.52
2:H:195:ALA:O	2:H:196:GLN:HB2	2.09	0.52
2:H:331:LEU:CD1	2:L:92:ARG:HH21	2.23	0.52
2:H:695:SER:CB	6:Q:28:TRP:HZ3	2.23	0.52
2:H:705:PRO:HB3	2:H:710:LEU:HD13	1.92	0.52
2:H:709:ARG:HH11	2:H:709:ARG:HG2	1.74	0.52
2:H:832:LEU:HD12	2:H:832:LEU:O	2.10	0.52
2:J:24:LEU:HB3	2:K:612:ASN:ND2	2.25	0.52
2:J:371:ASP:HB3	2:J:374:VAL:CG1	2.40	0.52
2:J:377:ILE:HD11	2:J:446:LEU:HD21	1.91	0.52
2:J:409:GLY:C	2:J:411:THR:N	2.64	0.52
2:J:433:MET:SD	2:K:433:MET:CG	2.98	0.52
2:J:446:LEU:HD12	2:J:488:ASP:HA	1.92	0.52
2:J:529:VAL:O	2:J:529:VAL:HG13	2.10	0.52
2:J:745:SER:HB3	2:J:847:PRO:CD	2.40	0.52
2:J:851:ASN:O	2:J:853:MET:N	2.43	0.52
2:K:49:THR:HG23	2:L:857:ALA:N	2.14	0.52
2:K:221:ASN:H	2:L:788:GLN:NE2	2.07	0.52
2:L:40:SER:C	2:L:41:LEU:HD12	2.35	0.52
2:L:109:ARG:HH11	2:L:113:PHE:HE2	1.56	0.52
2:L:241:ASP:OD1	2:L:241:ASP:N	2.43	0.52
2:L:299:ARG:HD2	2:L:570:LEU:CD1	2.40	0.52
2:L:610:ASP:N	2:L:610:ASP:OD1	2.41	0.52
2:L:647:ALA:HB3	2:L:916:THR:HG21	1.91	0.52
2:L:698:PHE:HE2	2:L:867:TYR:CE1	2.28	0.52
3:M:141:PHE:HE1	3:M:166:LEU:HD21	1.72	0.52
3:M:408:HIS:HE1	3:M:457:VAL:HG21	1.75	0.52
5:O:178:LEU:O	5:O:178:LEU:HD23	2.09	0.52
7:T:29:SER:O	7:T:30:ARG:HG3	2.09	0.52
7:T:62:THR:HG22	7:T:196:GLU:O	2.10	0.52
7:U:101:MET:HE2	7:U:101:MET:CA	2.38	0.52
1:5:27:THR:O	1:5:29:GLN:N	2.43	0.51
2:A:90:ASP:O	2:A:92:ARG:NH1	2.43	0.51
2:A:331:LEU:HD23	2:A:331:LEU:C	2.35	0.51
2:A:522:LEU:HD23	2:A:522:LEU:C	2.35	0.51
2:A:652:SER:HB3	2:A:892:LEU:HB2	1.92	0.51
2:A:866:LEU:HD23	2:A:866:LEU:C	2.35	0.51
2:B:349:MET:O	2:B:349:MET:HG3	2.10	0.51
2:B:521:MET:CE	2:C:380:HIS:CE1	2.88	0.51
2:C:125:ALA:C	2:C:127:LYS:N	2.65	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:597:HIS:O	2:C:600:ALA:N	2.36	0.51
2:C:620:LEU:HD22	2:C:622:ALA:HB2	1.91	0.51
2:C:756:VAL:O	2:C:757:PRO:C	2.53	0.51
2:D:246:PHE:CD1	2:D:246:PHE:N	2.74	0.51
2:D:279:ASP:HB2	2:D:464:ASN:HD21	1.76	0.51
2:D:392:PRO:HD3	2:D:431:PHE:O	2.11	0.51
2:D:406:LYS:CA	2:D:411:THR:H	2.23	0.51
2:D:711:LEU:CD1	2:F:65:THR:HB	2.40	0.51
2:D:745:SER:HB2	2:D:847:PRO:CG	2.40	0.51
2:E:192:VAL:HG23	2:E:193:GLY:H	1.76	0.51
2:E:200:GLY:HA3	2:F:813:GLN:HE22	1.75	0.51
2:E:241:ASP:CG	2:E:242:VAL:HG23	2.34	0.51
2:E:715:GLU:O	2:E:716:PHE:C	2.53	0.51
2:F:183:VAL:O	2:F:184:GLY:C	2.53	0.51
2:F:545:LEU:HD13	2:F:616:PHE:HE2	1.74	0.51
2:F:573:ASP:HB3	2:F:576:VAL:HG12	1.92	0.51
2:F:655:ARG:NH1	2:F:690:THR:OG1	2.43	0.51
2:F:656:LEU:HD11	2:F:890:TYR:CD2	2.45	0.51
2:F:668:PHE:CE2	6:Q:40:VAL:HG13	2.45	0.51
2:G:301:ASN:HA	2:G:569:SER:HB2	1.91	0.51
2:G:302:TYR:HD2	2:G:517:ARG:HA	1.70	0.51
2:G:430:ILE:O	2:G:430:ILE:HG13	2.09	0.51
2:G:487:LEU:HA	2:G:491:VAL:HG11	1.91	0.51
2:G:514:ALA:HA	2:G:517:ARG:HB3	1.92	0.51
2:G:816:PRO:HG3	2:I:267:ILE:HD13	1.91	0.51
2:H:53:THR:OG1	2:I:863:GLN:NE2	2.43	0.51
2:J:149:PHE:O	2:J:151:GLY:N	2.43	0.51
2:J:511:HIS:O	2:J:512:ARG:HG2	2.10	0.51
2:K:73:ARG:NH1	2:K:80:TYR:OH	2.42	0.51
2:K:226:GLN:O	2:K:227:ALA:HB2	2.09	0.51
2:K:547:LEU:HD11	2:K:552:TYR:CE1	2.45	0.51
2:K:678:VAL:O	2:K:682:ASP:HB2	2.10	0.51
2:L:334:VAL:O	2:L:334:VAL:CG1	2.57	0.51
3:M:71:ASP:OD1	3:M:86:HIS:ND1	2.42	0.51
3:M:277:GLY:HA3	3:M:346:ALA:HB2	1.92	0.51
1:4:21:THR:HB	2:C:50:VAL:HG23	1.93	0.51
1:5:17:PRO:O	1:5:17:PRO:HG2	2.10	0.51
2:A:22:GLU:O	5:O:26:PRO:HB3	2.10	0.51
2:A:128:THR:O	2:A:128:THR:CG2	2.58	0.51
2:B:31:PHE:O	2:B:34:ALA:HB3	2.10	0.51
2:B:114:LYS:NZ	2:B:298:ASN:N	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:184:GLY:C	2:B:186:THR:H	2.18	0.51
2:B:202:VAL:HG23	2:B:262:ALA:HB2	1.90	0.51
2:B:667:GLY:O	3:M:83:GLN:NE2	2.43	0.51
2:B:711:LEU:HD11	2:B:727:TYR:CE1	2.45	0.51
2:B:861:LEU:O	2:B:862:GLY:C	2.51	0.51
2:C:356:ARG:HG2	2:C:367:VAL:CB	2.38	0.51
2:C:390:CYS:HB2	2:C:432:ALA:CB	2.34	0.51
2:C:451:ALA:O	2:C:453:TYR:N	2.43	0.51
2:C:749:ILE:CG1	2:C:750:GLY:N	2.70	0.51
2:D:778:VAL:HG22	2:D:779:VAL:N	2.24	0.51
2:E:309:PHE:CE1	2:E:364:ASN:HB2	2.44	0.51
2:E:518:TYR:O	2:E:519:ARG:HG3	2.11	0.51
2:E:629:ILE:HD13	2:E:880:VAL:HG21	1.91	0.51
2:E:755:TYR:HD1	2:E:755:TYR:O	1.93	0.51
2:F:135:TRP:NE1	2:F:287:SER:C	2.69	0.51
2:F:135:TRP:HB3	2:F:142:LYS:CG	2.41	0.51
2:F:625:MET:HE2	2:F:893:PHE:CE2	2.45	0.51
2:F:729:VAL:CG2	2:F:734:MET:HB2	2.41	0.51
2:F:810:ARG:HD3	2:F:810:ARG:N	2.20	0.51
2:G:178:GLN:OE1	2:G:201:ARG:HB2	2.10	0.51
2:G:640:ILE:CG2	2:G:643:ARG:HD3	2.40	0.51
2:G:709:ARG:O	2:I:64:LEU:HB2	2.10	0.51
2:G:729:VAL:CG1	2:G:730:ALA:H	2.18	0.51
2:G:809:MET:HE3	2:I:187:GLN:HG2	1.91	0.51
2:H:406:LYS:O	2:H:406:LYS:HD2	2.09	0.51
2:I:147:ALA:HA	2:I:200:GLY:HA3	1.92	0.51
2:I:154:ILE:HD12	2:I:259:VAL:CG1	2.40	0.51
2:J:551:SER:C	2:J:552:TYR:HD1	2.18	0.51
2:K:28:LEU:HA	2:L:606:MET:HE2	1.92	0.51
2:K:94:LEU:HD12	2:K:592:PHE:CE1	2.46	0.51
2:K:276:TYR:O	2:K:276:TYR:CD2	2.63	0.51
2:K:312:LEU:HD12	2:K:565:ILE:CG1	2.38	0.51
2:K:415:ASP:OD1	2:K:415:ASP:N	2.40	0.51
2:K:506:ASN:HA	2:K:686:TYR:CE2	2.44	0.51
2:K:537:GLN:HE21	2:K:542:ILE:HD11	1.75	0.51
2:K:563:ASN:HB3	2:K:575:ARG:NH1	2.25	0.51
2:L:20:ALA:HA	2:L:23:TYR:HE1	1.71	0.51
2:L:132:PRO:O	2:L:203:LEU:N	2.43	0.51
2:L:187:GLN:C	2:L:189:ASN:N	2.68	0.51
2:L:375:ARG:O	2:L:498:SER:HB3	2.10	0.51
7:T:70:ASN:HA	7:T:198:PHE:HZ	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:36:ALA:HB1	7:U:40:MET:HB2	1.92	0.51
7:U:51:ARG:O	7:U:54:ILE:HG22	2.10	0.51
2:A:65:THR:HG23	2:A:65:THR:O	2.09	0.51
2:A:375:ARG:HE	2:A:507:PRO:CG	2.24	0.51
2:A:549:PRO:HD2	2:A:604:GLU:CD	2.35	0.51
2:A:815:TYR:HD2	2:A:816:PRO:HB2	1.75	0.51
2:A:895:VAL:CG1	2:A:917:PRO:CG	2.86	0.51
2:B:433:MET:HE1	2:C:431:PHE:HD2	1.75	0.51
2:B:468:PRO:HG3	2:B:475:ALA:CB	2.27	0.51
2:B:503:ASP:OD1	2:B:503:ASP:N	2.42	0.51
2:B:593:PHE:CE2	2:B:595:MET:HB3	2.45	0.51
2:B:643:ARG:CG	2:B:643:ARG:HH11	2.24	0.51
2:B:671:TYR:CD1	2:B:671:TYR:N	2.79	0.51
2:B:866:LEU:O	2:B:867:TYR:C	2.53	0.51
2:B:890:TYR:O	2:B:892:LEU:HD23	2.10	0.51
2:B:900:ARG:CG	2:B:900:ARG:O	2.52	0.51
2:C:111:PRO:HD2	2:C:577:ASP:O	2.10	0.51
2:C:445:PHE:HB3	2:C:446:LEU:HD12	1.93	0.51
2:C:805:MET:CA	2:C:805:MET:CE	2.88	0.51
2:C:877:THR:O	2:C:877:THR:HG23	2.09	0.51
2:D:416:ASP:CG	2:E:245:GLN:NE2	2.68	0.51
2:D:638:ILE:CG1	2:D:876:MET:HB2	2.41	0.51
2:D:664:LEU:HD12	2:D:664:LEU:H	1.76	0.51
2:D:751:TYR:CD2	2:F:593:PHE:HD1	2.28	0.51
2:D:823:LEU:HD12	2:D:823:LEU:C	2.25	0.51
2:E:156:LYS:HD3	2:E:246:PHE:CE2	2.45	0.51
2:E:174:ASP:C	2:E:175:LYS:CD	2.77	0.51
2:E:269:ALA:HB1	2:E:272:THR:HG21	1.93	0.51
2:E:732:CYS:O	2:E:835:LYS:HE2	2.10	0.51
2:F:797:ASN:O	2:F:799:SER:N	2.43	0.51
2:F:810:ARG:O	2:F:810:ARG:HG2	2.10	0.51
2:G:244:LEU:HD22	2:G:261:TYR:HE1	1.74	0.51
2:G:386:LEU:HD21	2:I:447:TYR:CB	2.40	0.51
2:G:389:TYR:CE2	2:I:810:ARG:HG2	2.44	0.51
2:G:678:VAL:O	2:G:682:ASP:HB2	2.09	0.51
2:G:778:VAL:HG12	2:G:832:LEU:O	2.10	0.51
2:H:274:LEU:H	2:H:274:LEU:HD13	1.74	0.51
2:H:522:LEU:C	2:H:522:LEU:HD23	2.35	0.51
2:H:534:GLN:HE22	2:I:729:VAL:C	2.19	0.51
2:H:629:ILE:HB	2:H:887:THR:O	2.11	0.51
2:H:649:ARG:HA	2:H:859:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:784:TYR:CZ	2:H:829:VAL:HG12	2.44	0.51
2:I:307:ASP:OD1	2:I:308:ASN:N	2.43	0.51
2:I:447:TYR:HD2	2:I:484:PRO:HB3	1.73	0.51
2:J:44:LYS:NZ	2:K:95:ASP:OD2	2.40	0.51
2:J:113:PHE:CZ	2:J:115:PRO:HB3	2.45	0.51
2:J:406:LYS:N	2:J:412:TRP:HA	2.25	0.51
2:J:422:GLY:O	2:J:423:ALA:C	2.52	0.51
2:K:110:GLY:CA	2:K:527:ARG:HE	2.23	0.51
2:K:135:TRP:CB	2:K:141:ILE:HG13	2.40	0.51
2:K:417:ASN:CG	2:K:418:TYR:N	2.68	0.51
2:K:497:TRP:CG	2:K:776:ARG:HD2	2.45	0.51
2:K:547:LEU:HD11	2:K:552:TYR:CE2	2.44	0.51
2:L:136:LYS:HG2	2:L:140:LYS:HA	1.92	0.51
3:M:443:VAL:O	3:M:443:VAL:HG13	2.10	0.51
5:O:154:PHE:CZ	5:O:210:THR:HG22	2.46	0.51
5:O:199:THR:OG1	5:O:204:LEU:HD21	2.10	0.51
7:T:14:GLN:HE22	7:T:17:MET:HE3	1.75	0.51
1:5:19:MET:CE	1:5:19:MET:O	2.54	0.51
2:A:10:TRP:CD1	2:A:10:TRP:H	2.27	0.51
2:A:273:HIS:CG	2:A:273:HIS:O	2.58	0.51
2:A:497:TRP:CD1	2:A:836:LYS:HD3	2.44	0.51
2:A:796:HIS:CE1	2:C:179:PRO:CG	2.82	0.51
2:B:43:ASN:OD1	2:B:44:LYS:HG3	2.11	0.51
2:B:121:TYR:HE1	2:C:819:TYR:CD2	2.29	0.51
2:B:202:VAL:HG23	2:B:202:VAL:O	2.10	0.51
2:B:274:LEU:CD1	2:B:293:GLN:HB3	2.39	0.51
2:B:449:ASN:OD1	2:B:449:ASN:N	2.43	0.51
2:B:456:ASP:O	2:B:480:ARG:NH1	2.44	0.51
2:B:534:GLN:N	2:B:534:GLN:OE1	2.44	0.51
2:C:846:ILE:HG22	2:C:846:ILE:O	2.10	0.51
2:D:506:ASN:OD1	2:D:686:TYR:CD2	2.64	0.51
2:D:650:GLY:O	2:D:894:GLU:HG3	2.10	0.51
2:D:788:GLN:HE21	2:F:221:ASN:C	2.15	0.51
2:D:822:PRO:HG3	2:F:121:TYR:CE2	2.46	0.51
2:E:211:PRO:O	2:E:215:SER:OG	2.26	0.51
2:F:64:LEU:HD23	2:F:64:LEU:O	2.11	0.51
2:F:89:GLY:O	2:F:549:PRO:HB3	2.10	0.51
2:F:113:PHE:O	2:F:114:LYS:C	2.52	0.51
2:F:154:ILE:CD1	2:F:197:LYS:HB3	2.40	0.51
2:F:217:ALA:HB1	2:F:265:VAL:CG1	2.41	0.51
2:F:738:TRP:NE1	2:F:742:GLN:HE21	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:244:LEU:HG	2:G:244:LEU:O	2.10	0.51
2:G:435:ILE:HG23	2:H:389:TYR:O	2.10	0.51
2:G:663:SER:HB2	2:G:669:ASP:CB	2.40	0.51
2:G:697:MET:HE3	2:G:703:SER:OG	2.11	0.51
2:G:734:MET:HE2	2:G:739:PHE:CD2	2.45	0.51
2:G:809:MET:SD	2:H:389:TYR:OH	2.66	0.51
2:G:826:GLN:O	2:G:826:GLN:NE2	2.36	0.51
2:H:126:PRO:CA	2:I:434:GLU:OE1	2.58	0.51
2:H:297:PRO:HG2	2:I:385:GLU:CB	2.41	0.51
2:H:447:TYR:HA	2:H:451:ALA:CB	2.41	0.51
2:H:652:SER:HG	2:H:892:LEU:HD12	1.74	0.51
2:H:659:LYS:HZ1	2:H:659:LYS:HB3	1.75	0.51
2:H:884:ASP:OD1	2:H:884:ASP:N	2.44	0.51
2:I:402:TYR:HB3	2:I:425:ILE:HD12	1.92	0.51
2:I:500:ASP:HB2	2:I:501:PRO:HD3	1.91	0.51
2:I:744:LEU:HD13	2:I:749:ILE:O	2.10	0.51
2:J:608:ARG:CZ	2:J:906:ARG:H	2.24	0.51
2:J:647:ALA:HB1	2:J:896:PHE:CE1	2.45	0.51
2:J:699:ASP:OD1	2:J:872:HIS:HA	2.10	0.51
2:J:744:LEU:CD2	2:J:750:GLY:HA3	2.40	0.51
2:K:338:GLN:HE21	2:K:665:GLY:HA2	1.74	0.51
2:K:376:ILE:HG22	2:K:496:ARG:HG3	1.93	0.51
2:K:686:TYR:C	2:K:687:LEU:HD12	2.36	0.51
2:L:310:ILE:HD12	2:L:347:GLN:OE1	2.09	0.51
2:L:656:LEU:C	2:L:656:LEU:HD12	2.35	0.51
2:L:804:TYR:CD1	2:L:805:MET:HB2	2.44	0.51
2:L:861:LEU:HA	2:L:864:ASN:HB2	1.92	0.51
3:M:177:ILE:HG22	3:M:177:ILE:O	2.10	0.51
5:O:283:PHE:CE2	7:T:62:THR:HA	2.46	0.51
7:U:222:TYR:HE1	7:U:227:GLU:HA	1.75	0.51
2:A:655:ARG:HH22	2:A:883:MET:CG	2.22	0.51
2:B:134:GLU:HG3	2:B:205:ASP:OD1	2.11	0.51
2:B:228:SER:OG	2:B:264:ASN:O	2.28	0.51
2:B:323:VAL:HG11	2:B:555:GLU:HB3	1.91	0.51
2:B:362:MET:HG3	2:B:534:GLN:NE2	2.25	0.51
2:B:477:MET:HA	2:B:477:MET:HE3	1.91	0.51
2:B:848:PHE:CE1	2:B:861:LEU:HD22	2.46	0.51
2:C:337:LEU:O	2:C:339:ASP:N	2.41	0.51
2:C:600:ALA:C	2:C:602:THR:N	2.68	0.51
2:C:865:MET:O	2:C:869:ASN:HB2	2.11	0.51
2:D:257:LYS:NZ	2:D:257:LYS:HB3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:337:LEU:H	2:D:340:ARG:NH2	2.07	0.51
2:D:679:PRO:HB3	2:D:684:THR:HB	1.93	0.51
2:E:488:ASP:CG	2:E:489:THR:N	2.69	0.51
2:E:593:PHE:O	2:E:595:MET:N	2.41	0.51
2:F:103:ILE:HG23	2:F:586:ILE:HD11	1.90	0.51
2:F:382:VAL:HG12	2:F:384:ASP:HB2	1.92	0.51
2:F:490:TYR:O	2:F:491:VAL:HG13	2.11	0.51
2:F:595:MET:HG3	2:F:595:MET:O	2.11	0.51
2:F:689:HIS:CE1	2:F:690:THR:HG23	2.45	0.51
2:F:802:VAL:O	2:F:810:ARG:HA	2.11	0.51
2:F:810:ARG:NH1	2:F:810:ARG:O	2.41	0.51
2:G:12:TYR:CE2	7:U:168:PHE:HB3	2.45	0.51
2:G:59:ASP:C	2:G:61:SER:H	2.19	0.51
2:G:94:LEU:HD11	2:G:590:ALA:HB1	1.93	0.51
2:G:174:ASP:O	2:G:175:LYS:C	2.50	0.51
2:G:273:HIS:O	2:G:273:HIS:ND1	2.42	0.51
2:G:508:PHE:CE2	2:G:684:THR:HB	2.45	0.51
2:G:649:ARG:HA	2:G:859:THR:HG21	1.92	0.51
2:G:733:ASN:CG	2:G:733:ASN:O	2.49	0.51
2:H:443:ARG:HG2	2:H:488:ASP:OD1	2.10	0.51
2:H:691:PHE:HB2	2:H:718:ILE:HD12	1.91	0.51
2:H:874:LEU:HD21	2:H:876:MET:HG2	1.93	0.51
2:I:99:THR:HA	2:I:589:TYR:O	2.10	0.51
2:I:379:ASN:O	2:I:380:HIS:HD2	1.93	0.51
2:I:406:LYS:C	2:I:408:ASN:N	2.64	0.51
2:I:804:TYR:HD1	2:I:805:MET:HG2	1.74	0.51
2:I:834:GLN:O	2:I:835:LYS:HG2	2.10	0.51
2:J:386:LEU:HD22	2:L:447:TYR:CD1	2.45	0.51
2:J:895:VAL:CG1	2:J:917:PRO:CA	2.73	0.51
2:K:119:THR:HG23	2:K:271:ASP:CB	2.39	0.51
2:K:131:ASN:OD1	2:K:212:CYS:HB2	2.11	0.51
2:K:216:TYR:CG	2:K:217:ALA:N	2.78	0.51
2:K:223:LYS:O	2:K:223:LYS:CG	2.54	0.51
2:K:405:ILE:HG23	2:K:411:THR:O	2.10	0.51
2:L:203:LEU:HG	2:L:265:VAL:HG21	1.92	0.51
2:L:626:LEU:HD12	2:L:626:LEU:O	2.10	0.51
2:L:720:ARG:HH11	2:L:723:ASP:HB3	1.75	0.51
2:L:840:ASP:O	2:L:841:ARG:HB3	2.10	0.51
5:O:214:LYS:O	5:O:214:LYS:CG	2.57	0.51
6:P:8:ASN:OD1	6:P:8:ASN:O	2.29	0.51
6:R:26:PRO:HG2	6:R:31:VAL:HG11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:53:LEU:O	6:S:54:THR:C	2.53	0.51
7:U:177:LEU:H	7:U:177:LEU:HD12	1.74	0.51
1:5:18:PHE:CD1	1:5:18:PHE:N	2.76	0.51
2:A:27:GLY:C	2:B:606:MET:HE1	2.36	0.51
2:A:654:THR:HG21	2:A:685:PHE:CD1	2.45	0.51
2:A:694:VAL:HG22	2:A:696:ILE:CD1	2.40	0.51
2:A:740:LEU:O	2:A:744:LEU:HD12	2.11	0.51
2:A:916:THR:HG1	2:A:917:PRO:HD3	1.71	0.51
2:B:140:LYS:H	2:B:140:LYS:HD2	1.75	0.51
2:B:265:VAL:HG22	2:B:266:SER:N	2.21	0.51
2:B:858:LEU:HD21	2:B:863:GLN:HG3	1.91	0.51
2:C:106:VAL:N	2:C:531:PHE:CE1	2.78	0.51
2:C:107:LEU:CD2	2:C:566:LEU:HD11	2.40	0.51
2:C:129:ALA:O	2:C:212:CYS:N	2.42	0.51
2:C:201:ARG:NH1	2:C:226:GLN:HG2	2.25	0.51
2:C:271:ASP:O	2:C:272:THR:HG23	2.10	0.51
2:C:300:PRO:O	2:C:300:PRO:HG2	2.10	0.51
2:C:312:LEU:HD21	2:C:565:ILE:HD13	1.93	0.51
2:C:488:ASP:C	2:C:490:TYR:H	2.18	0.51
2:C:611:THR:HG21	7:T:180:SER:O	2.11	0.51
2:D:636:VAL:O	2:D:636:VAL:HG13	2.10	0.51
2:D:729:VAL:CG2	2:D:730:ALA:H	2.23	0.51
2:D:739:PHE:HE2	2:D:743:MET:CE	2.24	0.51
2:E:649:ARG:HD3	2:E:896:PHE:HE1	1.75	0.51
2:F:70:PRO:HD3	2:F:586:ILE:O	2.11	0.51
2:F:112:SER:O	2:F:114:LYS:N	2.44	0.51
2:F:115:PRO:HA	2:F:302:TYR:HD1	1.73	0.51
2:F:174:ASP:OD2	2:F:223:LYS:HD2	2.11	0.51
2:G:248:ALA:O	2:I:402:TYR:HA	2.10	0.51
2:G:255:GLU:CG	2:G:256:PRO:CD	2.89	0.51
2:G:434:GLU:OE2	2:I:126:PRO:HA	2.11	0.51
2:G:527:ARG:N	2:H:823:LEU:O	2.43	0.51
2:G:691:PHE:HB3	2:G:718:ILE:CD1	2.35	0.51
2:G:745:SER:HB2	2:G:847:PRO:CG	2.40	0.51
2:H:175:LYS:CB	2:H:223:LYS:HZ1	2.19	0.51
2:H:261:TYR:N	2:H:261:TYR:CD1	2.76	0.51
2:H:269:ALA:O	2:H:270:PRO:C	2.49	0.51
2:H:297:PRO:HG2	2:I:385:GLU:HG3	1.92	0.51
2:H:529:VAL:HG23	2:I:777:GLN:NE2	2.26	0.51
2:H:865:MET:HE3	4:N:182:LYS:HZ2	1.76	0.51
2:I:10:TRP:HA	2:I:15:ILE:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:150:ILE:CG1	2:I:183:VAL:HG22	2.41	0.51
2:I:172:TYR:HA	2:I:261:TYR:CE2	2.46	0.51
2:I:175:LYS:NZ	2:I:175:LYS:HB3	2.25	0.51
2:I:840:ASP:O	2:I:841:ARG:C	2.52	0.51
2:J:100:TYR:CZ	2:J:589:TYR:HD2	2.29	0.51
2:J:150:ILE:HG21	2:J:192:VAL:HG22	1.93	0.51
2:J:309:PHE:CD1	2:J:364:ASN:HB2	2.43	0.51
2:J:704:TRP:O	2:J:705:PRO:C	2.53	0.51
2:K:12:TYR:CE1	2:L:900:ARG:HD2	2.46	0.51
2:K:50:VAL:CG1	2:L:858:LEU:HD23	2.40	0.51
2:K:110:GLY:HA2	2:K:527:ARG:NE	2.24	0.51
2:K:719:LYS:CD	2:K:733:ASN:HD21	2.22	0.51
2:L:73:ARG:HG3	2:L:74:GLU:N	2.25	0.51
2:L:229:LEU:O	2:L:230:ILE:C	2.53	0.51
2:L:299:ARG:CD	2:L:570:LEU:HD11	2.39	0.51
2:L:360:PHE:CE2	2:L:362:MET:HB3	2.46	0.51
2:L:701:SER:OG	2:L:702:VAL:N	2.36	0.51
3:M:51:ASN:O	3:M:51:ASN:OD1	2.29	0.51
3:M:146:MET:HG2	3:M:197:VAL:HG21	1.92	0.51
6:S:13:LYS:O	6:S:15:GLY:N	2.43	0.51
7:T:90:LEU:HD23	7:T:90:LEU:C	2.35	0.51
7:U:75:PRO:HG2	7:U:78:GLN:CG	2.36	0.51
1:8:35:PHE:HE1	2:B:621:CYS:HG	1.58	0.51
2:A:375:ARG:HH12	2:A:838:LEU:HD12	1.75	0.51
2:A:858:LEU:HD22	2:A:863:GLN:HB2	1.93	0.51
2:B:160:ILE:CD1	2:B:199:ALA:HB2	2.40	0.51
2:B:273:HIS:O	2:B:274:LEU:C	2.51	0.51
2:B:712:THR:O	2:B:712:THR:HG23	2.10	0.51
2:B:732:CYS:SG	2:B:733:ASN:N	2.84	0.51
2:B:777:GLN:CD	2:B:833:THR:HG22	2.35	0.51
2:C:549:PRO:HD2	2:C:604:GLU:CG	2.33	0.51
2:C:631:SER:HA	2:C:886:PRO:CG	2.38	0.51
2:D:121:TYR:CE2	2:D:270:PRO:HG2	2.45	0.51
2:D:174:ASP:O	2:D:175:LYS:HB3	2.11	0.51
2:D:322:GLY:HA2	2:D:555:GLU:O	2.10	0.51
2:D:406:LYS:CD	2:E:156:LYS:HZ2	2.24	0.51
2:D:837:PHE:HE2	2:D:844:TRP:HH2	1.57	0.51
2:E:198:VAL:HG22	2:E:199:ALA:N	2.26	0.51
2:E:244:LEU:HD21	2:E:246:PHE:HE1	1.74	0.51
2:E:352:ALA:HA	2:E:763:ARG:HD3	1.92	0.51
2:E:866:LEU:C	2:E:867:TYR:HD1	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:625:MET:HE2	2:F:893:PHE:HE2	1.75	0.51
2:F:815:TYR:CG	2:F:816:PRO:CD	2.66	0.51
2:G:527:ARG:HD3	2:G:528:TYR:CE1	2.45	0.51
2:G:724:GLY:C	2:G:726:GLY:HA2	2.36	0.51
2:G:792:LEU:O	2:G:792:LEU:HD12	2.11	0.51
2:G:800:GLY:HA2	2:G:812:GLY:C	2.36	0.51
2:G:900:ARG:O	2:G:900:ARG:CG	2.53	0.51
2:G:913:TYR:N	2:G:913:TYR:HD1	2.09	0.51
2:H:147:ALA:HB3	2:H:198:VAL:CG2	2.40	0.51
2:H:285:ILE:HD12	2:H:290:LEU:HD21	1.91	0.51
2:H:346:TYR:CG	2:H:538:LYS:HG2	2.44	0.51
2:H:720:ARG:HH12	2:H:723:ASP:CB	2.17	0.51
2:H:740:LEU:HD23	2:H:744:LEU:CD2	2.40	0.51
2:I:84:PHE:CD2	2:I:588:LEU:HB2	2.45	0.51
2:I:388:ASN:CG	2:I:437:LEU:HD23	2.35	0.51
2:I:447:TYR:CE2	2:I:484:PRO:HB3	2.46	0.51
2:I:604:GLU:C	2:I:606:MET:H	2.19	0.51
2:I:620:LEU:HD23	2:I:620:LEU:C	2.35	0.51
2:J:43:ASN:OD1	2:J:43:ASN:C	2.54	0.51
2:J:96:MET:C	2:J:98:SER:H	2.17	0.51
2:J:101:PHE:CZ	2:J:554:TYR:CE2	2.98	0.51
2:J:497:TRP:CG	2:J:776:ARG:HD3	2.46	0.51
2:K:89:GLY:HA3	2:K:92:ARG:NH1	2.26	0.51
2:K:518:TYR:CE1	2:K:522:LEU:HD23	2.45	0.51
2:K:718:ILE:HG12	2:K:738:TRP:CE2	2.46	0.51
2:L:92:ARG:HD3	2:L:592:PHE:CD2	2.46	0.51
2:L:315:TYR:CD1	2:L:342:THR:HG21	2.46	0.51
2:L:388:ASN:HB3	2:L:437:LEU:CD2	2.14	0.51
2:L:729:VAL:HG13	2:L:736:LYS:HG3	1.93	0.51
2:L:796:HIS:CE1	2:L:818:ASN:ND2	2.78	0.51
5:O:305:LEU:HD23	5:O:305:LEU:C	2.36	0.51
6:Q:31:VAL:O	6:Q:31:VAL:HG13	2.11	0.51
1:4:21:THR:N	2:C:50:VAL:O	2.43	0.51
2:A:129:ALA:HA	2:C:188:TRP:HE1	1.76	0.51
2:A:502:MET:O	2:A:505:VAL:HG12	2.11	0.51
2:A:628:PRO:O	2:A:629:ILE:HD13	2.10	0.51
2:A:792:LEU:CG	2:A:793:PRO:HD3	2.41	0.51
2:B:276:TYR:O	2:B:277:LYS:HB2	2.10	0.51
2:B:533:ILE:CG2	2:C:731:GLN:HG2	2.40	0.51
2:C:346:TYR:CE1	2:C:350:LEU:HD21	2.46	0.51
2:D:599:THR:HA	2:D:602:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:738:TRP:CH2	2:D:846:ILE:HG12	2.46	0.51
2:E:216:TYR:CZ	2:E:218:LYS:HA	2.46	0.51
2:E:386:LEU:H	2:E:386:LEU:HD23	1.76	0.51
2:E:678:VAL:O	2:E:682:ASP:HB2	2.10	0.51
2:E:711:LEU:HD12	2:E:711:LEU:O	2.10	0.51
2:F:285:ILE:O	2:F:285:ILE:CG2	2.48	0.51
2:F:653:PHE:O	2:F:654:THR:OG1	2.26	0.51
2:G:244:LEU:HD11	2:G:246:PHE:CD1	2.45	0.51
2:G:307:ASP:O	2:G:309:PHE:N	2.44	0.51
2:G:456:ASP:OD1	2:G:480:ARG:NH1	2.44	0.51
2:G:589:TYR:CE2	2:H:736:LYS:NZ	2.78	0.51
2:G:744:LEU:HD12	2:G:749:ILE:H	1.76	0.51
2:H:801:PHE:HA	2:I:391:PHE:CE2	2.46	0.51
2:I:177:TYR:CE2	2:I:261:TYR:CE1	2.98	0.51
2:I:779:VAL:CG1	2:I:829:VAL:HG21	2.30	0.51
2:J:221:ASN:C	2:K:788:GLN:OE1	2.54	0.51
2:J:352:ALA:O	2:J:353:LEU:HD23	2.10	0.51
2:J:434:GLU:O	2:J:435:ILE:HG13	2.09	0.51
2:J:572:ASN:N	2:J:675:SER:HG	2.09	0.51
2:J:608:ARG:HH11	2:J:608:ARG:HG2	1.76	0.51
2:K:5:SER:O	7:U:191:THR:HG22	2.11	0.51
2:K:10:TRP:CE3	7:U:17:MET:HE1	2.46	0.51
2:K:66:LEU:HD23	2:K:67:ARG:N	2.25	0.51
2:K:255:GLU:O	2:K:257:LYS:N	2.43	0.51
2:K:339:ASP:OD1	2:K:915:ARG:NH1	2.42	0.51
2:K:653:PHE:HE1	2:K:846:ILE:CD1	2.24	0.51
2:L:12:TYR:CD2	2:L:13:MET:HE3	2.46	0.51
2:L:99:THR:HA	2:L:589:TYR:O	2.11	0.51
3:M:177:ILE:O	3:M:177:ILE:CG2	2.59	0.51
5:O:133:VAL:CG2	5:O:136:ARG:HE	2.24	0.51
6:S:35:VAL:HG13	6:S:36:MET:N	2.24	0.51
6:S:55:TYR:O	6:S:55:TYR:CG	2.63	0.51
7:T:34:LEU:HD12	7:T:34:LEU:N	2.24	0.51
1:8:27:THR:HA	2:A:19:ASP:OD1	2.10	0.51
2:A:93:VAL:CG1	2:A:546:LEU:HD11	2.40	0.51
2:A:94:LEU:CD1	2:A:592:PHE:HE1	2.24	0.51
2:A:96:MET:CE	2:A:99:THR:HG21	2.41	0.51
2:A:114:LYS:HD2	2:A:298:ASN:HB2	1.93	0.51
2:A:336:ASP:HA	2:A:340:ARG:NH1	2.25	0.51
2:A:611:THR:HG22	2:A:611:THR:O	2.09	0.51
2:A:649:ARG:C	2:A:848:PHE:HB2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:714:ASN:CG	2:E:318:THR:HG21	2.36	0.51
2:A:718:ILE:O	2:A:734:MET:HA	2.10	0.51
2:A:738:TRP:CZ2	2:A:844:TRP:HB3	2.45	0.51
2:A:780:ASN:O	2:A:787:TYR:HD2	1.94	0.51
2:B:15:ILE:HG23	2:C:896:PHE:CE2	2.45	0.51
2:B:35:THR:CG2	2:B:35:THR:O	2.56	0.51
2:B:51:ALA:CB	2:C:855:MET:HB2	2.39	0.51
2:B:497:TRP:CZ2	2:B:836:LYS:CG	2.85	0.51
2:B:791:THR:HB	2:B:793:PRO:HD2	1.93	0.51
2:B:891:VAL:C	2:B:892:LEU:HD23	2.36	0.51
2:C:449:ASN:O	2:C:510:HIS:CE1	2.64	0.51
2:C:506:ASN:HB2	2:C:686:TYR:CZ	2.45	0.51
2:C:582:ARG:HG2	2:C:584:ASP:N	2.25	0.51
2:C:704:TRP:CZ3	2:C:861:LEU:CD2	2.94	0.51
2:C:763:ARG:HB3	2:C:763:ARG:NH1	2.25	0.51
2:C:802:VAL:HG13	2:C:803:GLY:H	1.76	0.51
2:D:208:PRO:CD	2:D:284:THR:HG21	2.23	0.51
2:D:301:ASN:OD1	2:D:570:LEU:HB3	2.10	0.51
2:D:396:SER:OG	2:D:426:GLU:HB2	2.10	0.51
2:D:724:GLY:O	2:D:726:GLY:N	2.44	0.51
2:D:780:ASN:C	2:D:782:THR:N	2.66	0.51
2:E:58:THR:HG23	2:E:594:PRO:O	2.11	0.51
2:E:102:ASP:OD2	2:E:589:TYR:HE2	1.93	0.51
2:E:312:LEU:O	2:E:313:MET:HB2	2.09	0.51
2:E:378:GLU:O	2:E:378:GLU:HG3	2.11	0.51
2:E:486:ALA:N	2:E:792:LEU:HD21	2.25	0.51
2:F:183:VAL:O	2:F:185:GLN:N	2.43	0.51
2:F:218:LYS:O	2:F:226:GLN:HG3	2.11	0.51
2:F:749:ILE:HG22	2:F:750:GLY:N	2.25	0.51
2:F:900:ARG:O	2:F:911:ALA:HA	2.11	0.51
2:G:813:GLN:HE21	2:I:148:PRO:HB3	1.76	0.51
2:H:289:ASP:O	2:H:291:LEU:N	2.44	0.51
2:H:693:LYS:HB2	2:H:716:PHE:O	2.11	0.51
2:I:252:THR:O	2:I:252:THR:OG1	2.29	0.51
2:I:377:ILE:HG21	2:I:499:PRO:HD3	1.90	0.51
2:J:4:PRO:O	7:T:54:ILE:HG21	2.11	0.51
2:J:142:LYS:HG3	2:J:247:PHE:CE1	2.46	0.51
2:J:309:PHE:CZ	2:J:533:ILE:HB	2.46	0.51
2:J:680:TYR:CE1	2:J:890:TYR:HE2	2.29	0.51
2:J:915:ARG:HG3	2:J:916:THR:N	2.26	0.51
2:K:135:TRP:CD2	2:K:141:ILE:HD12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:221:ASN:O	2:K:222:GLU:C	2.53	0.51
2:K:458:TYR:HE2	2:K:501:PRO:HB3	1.76	0.51
2:K:832:LEU:HD12	2:K:832:LEU:O	2.10	0.51
2:L:58:THR:HG21	2:L:62:GLN:OE1	2.10	0.51
2:L:606:MET:SD	7:U:177:LEU:HD22	2.50	0.51
3:M:288:TYR:C	3:M:290:ALA:H	2.18	0.51
3:M:407:VAL:CB	3:M:456:ASN:OD1	2.52	0.51
5:O:180:VAL:HB	5:O:189:TYR:OH	2.10	0.51
1:3:25:ILE:O	1:3:25:ILE:HG22	2.10	0.51
1:4:13:HIS:O	1:4:13:HIS:CG	2.64	0.51
1:8:22:TRP:O	1:8:23:ASN:C	2.54	0.51
2:A:224:GLY:HA3	2:B:790:VAL:HG11	1.93	0.51
2:A:573:ASP:OD2	2:A:673:THR:HB	2.11	0.51
2:A:694:VAL:HG23	2:A:878:PHE:CD1	2.45	0.51
2:A:889:LEU:C	2:A:889:LEU:HD23	2.36	0.51
2:B:246:PHE:O	2:B:246:PHE:CG	2.64	0.51
2:B:454:LEU:HD22	2:B:502:MET:HB2	1.92	0.51
2:B:469:GLU:N	2:B:469:GLU:OE1	2.44	0.51
2:B:710:LEU:HD23	2:B:715:GLU:O	2.11	0.51
2:B:770:ASN:HB2	2:B:842:THR:CG2	2.41	0.51
2:C:14:HIS:CD2	2:C:23:TYR:CE2	2.99	0.51
2:C:90:ASP:HA	2:C:549:PRO:CB	2.41	0.51
2:C:199:ALA:HB1	2:C:259:VAL:O	2.11	0.51
2:C:235:ASP:OD2	2:C:260:LEU:HD12	2.10	0.51
2:C:655:ARG:HH11	2:C:880:VAL:HB	1.76	0.51
2:C:711:LEU:O	2:C:713:PRO:N	2.44	0.51
2:C:762:ASP:OD2	2:C:769:ARG:HB2	2.11	0.51
2:C:786:GLU:C	2:C:788:GLN:N	2.61	0.51
2:D:19:ASP:O	2:D:23:TYR:CD2	2.64	0.51
2:D:349:MET:HB2	2:D:619:TYR:HD2	1.76	0.51
2:D:458:TYR:CE2	2:D:501:PRO:HB3	2.46	0.51
2:D:490:TYR:CD2	2:D:820:PRO:HD3	2.46	0.51
2:D:540:PHE:CD2	2:D:618:ASP:HB2	2.46	0.51
2:D:559:ARG:O	2:D:565:ILE:HG21	2.10	0.51
2:E:271:ASP:C	2:E:272:THR:HG23	2.36	0.51
2:E:310:ILE:HD12	2:E:681:LEU:O	2.10	0.51
2:E:779:VAL:HG11	2:E:821:TYR:HD2	1.74	0.51
2:E:895:VAL:CG1	2:E:918:PHE:HB2	2.38	0.51
2:F:159:GLY:HA2	2:F:261:TYR:OH	2.10	0.51
2:F:203:LEU:HD21	2:F:267:ILE:CD1	2.35	0.51
2:F:249:LEU:N	2:F:250:PRO:HD3	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:140:LYS:NZ	2:I:420:ASP:N	2.58	0.51
2:G:218:LYS:HD2	2:H:784:TYR:OH	2.11	0.51
2:G:283:GLY:O	2:G:284:THR:C	2.54	0.51
2:G:510:HIS:O	2:G:513:ASN:HB3	2.11	0.51
2:G:802:VAL:C	2:G:810:ARG:HA	2.36	0.51
2:H:86:LEU:N	2:H:552:TYR:O	2.44	0.51
2:H:94:LEU:CD1	2:H:592:PHE:HE1	2.23	0.51
2:H:153:ASN:O	2:H:197:LYS:NZ	2.40	0.51
2:J:107:LEU:HD23	2:J:109:ARG:HB3	1.92	0.51
2:J:180:GLU:CB	2:J:181:PRO:CD	2.51	0.51
2:J:424:GLU:O	2:J:425:ILE:C	2.52	0.51
2:J:495:ALA:HB2	2:L:525:ASN:HB3	1.91	0.51
2:J:628:PRO:HD2	6:R:22:THR:HG22	1.92	0.51
2:K:134:GLU:CB	2:K:205:ASP:HA	2.41	0.51
2:K:323:VAL:HG12	2:K:332:ASN:CG	2.36	0.51
2:K:368:ASP:OD2	2:K:567:GLN:NE2	2.35	0.51
2:K:406:LYS:HG2	2:K:407:ALA:N	2.25	0.51
2:L:340:ARG:HD2	2:L:897:ASP:OD2	2.10	0.51
2:L:625:MET:N	2:L:625:MET:SD	2.83	0.51
2:L:653:PHE:HE2	2:L:846:ILE:HD11	1.76	0.51
2:L:745:SER:CB	2:L:847:PRO:HG3	2.39	0.51
5:O:53:PHE:CE1	5:O:61:ARG:HA	2.46	0.51
5:O:166:GLN:HA	5:O:166:GLN:OE1	2.10	0.51
6:R:17:PHE:CD1	6:R:17:PHE:O	2.64	0.51
6:S:32:ARG:CG	6:S:32:ARG:NH1	2.73	0.51
7:T:44:VAL:C	7:T:47:ILE:HG22	2.36	0.51
7:U:58:GLN:HA	7:U:61:LEU:HD21	1.91	0.51
1:1:16:ARG:H	1:1:17:PRO:CD	2.19	0.50
2:A:527:ARG:HD2	2:B:828:ALA:CB	2.40	0.50
2:A:839:CYS:HG	2:A:842:THR:CB	2.22	0.50
2:A:900:ARG:HB3	2:A:912:VAL:HG12	1.93	0.50
2:B:86:LEU:HD22	2:B:554:TYR:CD2	2.46	0.50
2:B:160:ILE:CD1	2:B:259:VAL:HG11	2.37	0.50
2:B:184:GLY:C	2:B:186:THR:N	2.69	0.50
2:B:442:TRP:CZ2	2:B:446:LEU:HD13	2.46	0.50
2:B:453:TYR:O	2:B:454:LEU:HD23	2.11	0.50
2:B:454:LEU:O	2:B:455:PRO:C	2.53	0.50
2:B:739:PHE:CZ	2:B:743:MET:SD	3.04	0.50
2:C:154:ILE:HD11	2:C:259:VAL:HB	1.93	0.50
2:C:299:ARG:NH2	2:C:570:LEU:HD11	2.06	0.50
2:C:602:THR:HG21	7:T:175:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:699:ASP:O	2:C:700:SER:HB2	2.11	0.50
2:C:739:PHE:HD1	2:C:739:PHE:O	1.94	0.50
2:D:143:VAL:CG2	2:F:425:ILE:HD12	2.41	0.50
2:D:194:ALA:O	2:D:195:ALA:C	2.52	0.50
2:D:443:ARG:NE	2:D:488:ASP:OD2	2.44	0.50
2:D:497:TRP:CD1	2:D:776:ARG:HD3	2.46	0.50
2:E:144:ARG:H	2:E:144:ARG:CD	2.23	0.50
2:E:158:ASN:HB2	2:E:169:GLN:OE1	2.11	0.50
2:E:382:VAL:HG11	2:E:439:ALA:HA	1.93	0.50
2:E:626:LEU:HD21	2:E:890:TYR:HD2	1.76	0.50
2:E:709:ARG:O	2:E:710:LEU:C	2.49	0.50
2:E:762:ASP:C	2:E:769:ARG:NH2	2.69	0.50
2:F:76:THR:HG22	2:F:77:ALA:N	2.26	0.50
2:F:202:VAL:O	2:F:262:ALA:HA	2.10	0.50
2:F:850:SER:OG	2:F:860:ASP:OD1	2.24	0.50
2:G:558:PHE:CE2	2:G:586:ILE:HG21	2.46	0.50
2:G:658:THR:HG23	2:G:886:PRO:O	2.11	0.50
2:H:183:VAL:O	2:H:183:VAL:CG2	2.56	0.50
2:H:187:GLN:NE2	2:I:128:THR:OG1	2.39	0.50
2:H:355:ASP:O	2:H:356:ARG:HB2	2.11	0.50
2:H:374:VAL:CG1	2:H:510:HIS:HE1	2.22	0.50
2:H:441:LEU:O	2:H:441:LEU:HD23	2.11	0.50
2:H:698:PHE:N	2:H:702:VAL:O	2.38	0.50
2:H:858:LEU:CD2	2:H:863:GLN:OE1	2.60	0.50
2:H:874:LEU:HD21	2:H:876:MET:CG	2.41	0.50
2:I:172:TYR:HA	2:I:261:TYR:CZ	2.46	0.50
2:I:450:VAL:CG1	2:I:487:LEU:HD13	2.41	0.50
2:I:471:LYS:HE3	2:I:476:TYR:OH	2.10	0.50
2:I:615:SER:HB2	2:I:899:VAL:O	2.11	0.50
2:I:819:TYR:N	2:I:820:PRO:HD2	2.26	0.50
2:I:916:THR:HG23	2:I:917:PRO:HG2	1.92	0.50
2:J:247:PHE:HB2	2:J:257:LYS:HD3	1.93	0.50
2:J:306:ARG:HG3	2:J:310:ILE:O	2.11	0.50
2:J:564:MET:SD	2:J:662:PRO:HB3	2.51	0.50
2:J:603:LEU:O	2:J:603:LEU:HD12	2.10	0.50
2:J:690:THR:HB	2:J:881:ASP:CG	2.35	0.50
2:K:135:TRP:CZ3	2:K:289:ASP:CB	2.94	0.50
2:K:299:ARG:NH2	2:K:453:TYR:CE1	2.79	0.50
2:K:307:ASP:C	2:K:309:PHE:H	2.20	0.50
2:K:593:PHE:CE2	2:K:595:MET:HG3	2.46	0.50
2:K:717:GLU:O	2:K:738:TRP:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:710:LEU:HD23	2:L:710:LEU:N	2.26	0.50
5:O:117:ASN:ND2	5:O:117:ASN:O	2.44	0.50
5:O:209:LEU:HD23	5:O:211:GLN:N	2.24	0.50
2:A:53:THR:O	2:A:53:THR:CG2	2.56	0.50
2:A:104:ARG:O	2:A:584:ASP:N	2.39	0.50
2:A:219:PRO:C	2:A:220:THR:HG23	2.35	0.50
2:A:745:SER:HB2	2:A:847:PRO:CD	2.40	0.50
2:A:750:GLY:HA2	2:A:754:PHE:CD1	2.46	0.50
2:B:216:TYR:CE1	2:B:219:PRO:HD3	2.47	0.50
2:B:572:ASN:OD1	2:B:574:LEU:HD23	2.11	0.50
2:B:668:PHE:O	2:B:670:PRO:N	2.44	0.50
2:C:150:ILE:HA	2:C:198:VAL:CG1	2.42	0.50
2:C:208:PRO:HD3	2:C:285:ILE:CD1	2.42	0.50
2:D:13:MET:CE	2:E:914:LEU:CD2	2.89	0.50
2:D:149:PHE:HB2	2:D:199:ALA:CB	2.40	0.50
2:D:495:ALA:HA	2:F:521:MET:HG2	1.93	0.50
2:D:498:SER:OG	2:D:774:MET:HE1	2.11	0.50
2:D:625:MET:C	2:D:626:LEU:HD23	2.36	0.50
2:D:822:PRO:O	2:D:829:VAL:HG22	2.11	0.50
2:D:916:THR:OG1	2:D:917:PRO:HD3	2.12	0.50
2:E:103:ILE:CD1	2:E:312:LEU:HD23	2.41	0.50
2:E:131:ASN:HD21	2:E:215:SER:CB	2.24	0.50
2:E:156:LYS:HE2	2:E:246:PHE:CD2	2.46	0.50
2:E:791:THR:O	2:E:795:GLN:HG3	2.10	0.50
2:F:14:HIS:CE1	2:F:23:TYR:CD1	3.00	0.50
2:F:131:ASN:ND2	2:F:131:ASN:N	2.55	0.50
2:F:251:SER:OG	2:F:252:THR:N	2.33	0.50
2:F:729:VAL:HG13	2:F:736:LYS:CB	2.41	0.50
2:G:110:GLY:C	2:G:527:ARG:HH12	2.19	0.50
2:G:170:PRO:CB	2:G:175:LYS:HG3	2.40	0.50
2:G:299:ARG:NE	2:G:452:LEU:HD21	2.27	0.50
2:G:331:LEU:O	2:G:332:ASN:CB	2.59	0.50
2:G:516:LEU:HD13	2:G:567:GLN:HB3	1.93	0.50
2:G:534:GLN:N	2:G:534:GLN:OE1	2.44	0.50
2:G:751:TYR:OH	2:I:64:LEU:HD21	2.11	0.50
2:H:298:ASN:HB3	2:H:478:ASN:ND2	2.23	0.50
2:H:327:GLN:OE1	2:H:327:GLN:HA	2.11	0.50
2:H:624:ASN:HD21	2:H:680:TYR:HE1	1.57	0.50
2:H:658:THR:HG22	2:H:886:PRO:O	2.11	0.50
2:H:771:PHE:CE1	2:H:773:PRO:HD3	2.46	0.50
2:H:810:ARG:NH2	2:I:430:ILE:HG13	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:349:MET:CA	2:I:619:TYR:HD2	2.25	0.50
2:I:425:ILE:HG22	2:I:426:GLU:O	2.12	0.50
2:J:53:THR:HG21	2:K:863:GLN:HE21	1.76	0.50
2:J:112:SER:O	2:J:113:PHE:C	2.53	0.50
2:J:737:ASP:OD1	2:J:737:ASP:C	2.54	0.50
2:J:890:TYR:HE1	2:J:892:LEU:HD13	1.74	0.50
2:K:207:THR:HG21	2:K:265:VAL:H	1.76	0.50
2:K:216:TYR:HD2	2:K:266:SER:O	1.94	0.50
2:K:256:PRO:C	2:K:258:ALA:H	2.18	0.50
2:K:452:LEU:HD23	2:K:482:ALA:HB3	1.92	0.50
2:K:565:ILE:HG23	2:K:566:LEU:HD23	1.94	0.50
2:K:858:LEU:HD22	2:K:863:GLN:OE1	2.11	0.50
2:L:80:TYR:HB3	2:L:558:PHE:HB2	1.93	0.50
2:L:459:LYS:HB2	2:L:480:ARG:HE	1.75	0.50
2:L:539:PHE:CE1	2:L:541:ALA:HB3	2.47	0.50
2:L:620:LEU:O	2:L:620:LEU:HG	2.11	0.50
2:L:784:TYR:CD2	2:L:830:PRO:HD2	2.44	0.50
3:M:147:VAL:HG22	3:M:158:ARG:O	2.11	0.50
3:M:408:HIS:CE1	3:M:457:VAL:HG21	2.46	0.50
1:4:22:TRP:HB2	1:4:25:ILE:HG21	1.91	0.50
1:8:13:HIS:O	1:8:14:GLY:C	2.53	0.50
2:A:109:ARG:HD3	2:A:303:ILE:HG22	1.93	0.50
2:A:386:LEU:HG	2:A:388:ASN:OD1	2.12	0.50
2:A:389:TYR:HB3	2:A:433:MET:O	2.11	0.50
2:A:452:LEU:HA	2:A:482:ALA:HB2	1.92	0.50
2:A:546:LEU:O	2:A:546:LEU:HG	2.12	0.50
2:A:709:ARG:O	2:A:709:ARG:CG	2.59	0.50
2:A:813:GLN:NE2	2:C:147:ALA:CB	2.74	0.50
2:C:10:TRP:C	2:C:15:ILE:HG22	2.37	0.50
2:C:24:LEU:HD21	2:C:45:PHE:CD2	2.46	0.50
2:C:156:LYS:O	2:C:158:ASN:N	2.43	0.50
2:C:548:LEU:HD23	2:C:608:ARG:NH1	2.24	0.50
2:D:317:SER:O	2:D:321:MET:HG2	2.11	0.50
2:E:189:ASN:HB2	2:F:292:THR:HA	1.94	0.50
2:E:374:VAL:HG22	2:E:510:HIS:HE1	1.76	0.50
2:E:403:SER:HB2	2:F:250:PRO:CD	2.41	0.50
2:E:437:LEU:HG	2:F:437:LEU:HD11	1.92	0.50
2:E:615:SER:O	2:E:616:PHE:HD1	1.94	0.50
2:E:624:ASN:OD1	2:E:890:TYR:CZ	2.64	0.50
2:E:780:ASN:C	2:E:782:THR:H	2.18	0.50
2:E:810:ARG:O	2:E:810:ARG:HD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:143:VAL:HG23	2:F:143:VAL:O	2.11	0.50
2:F:197:LYS:HE2	2:F:197:LYS:N	2.26	0.50
2:F:329:SER:CB	2:G:90:ASP:HB2	2.39	0.50
2:F:471:LYS:HG2	2:F:476:TYR:CE2	2.46	0.50
2:F:711:LEU:HD13	2:F:727:TYR:CE1	2.46	0.50
2:F:734:MET:HE1	2:F:738:TRP:HB3	1.93	0.50
2:G:61:SER:CB	2:H:707:ASN:HD21	2.25	0.50
2:G:142:LYS:NZ	2:I:424:GLU:O	2.35	0.50
2:G:612:ASN:HB2	2:I:24:LEU:CD2	2.41	0.50
2:H:160:ILE:HG12	2:H:177:TYR:CE1	2.46	0.50
2:H:526:GLY:HA2	2:I:824:ILE:CG2	2.42	0.50
2:H:678:VAL:O	2:H:678:VAL:CG1	2.59	0.50
2:H:718:ILE:HG22	2:H:738:TRP:CD2	2.46	0.50
2:I:160:ILE:O	2:I:160:ILE:HG12	2.11	0.50
2:I:651:TRP:HE1	2:I:893:PHE:HE1	1.58	0.50
2:I:681:LEU:C	2:I:681:LEU:HD12	2.36	0.50
2:I:703:SER:O	2:I:706:GLY:HA3	2.11	0.50
2:J:797:ASN:ND2	2:J:817:ALA:HB1	2.26	0.50
2:J:821:TYR:CZ	2:L:219:PRO:HG3	2.47	0.50
2:J:821:TYR:O	2:J:823:LEU:N	2.44	0.50
3:M:329:ASN:O	3:M:339:ALA:N	2.37	0.50
7:T:175:LEU:O	7:T:175:LEU:HD23	2.11	0.50
2:A:10:TRP:CZ3	2:B:866:LEU:CD1	2.94	0.50
2:A:436:ASN:OD1	2:A:438:ALA:HB3	2.12	0.50
2:B:244:LEU:HD23	2:B:244:LEU:N	2.25	0.50
2:B:320:ASN:CA	2:B:557:ASN:HD22	2.24	0.50
2:B:562:VAL:CG2	2:B:566:LEU:HD12	2.41	0.50
2:B:669:ASP:O	2:B:671:TYR:N	2.43	0.50
2:B:694:VAL:CG1	2:B:716:PHE:HB2	2.42	0.50
2:D:56:VAL:O	2:D:56:VAL:HG13	2.12	0.50
2:D:349:MET:CA	2:D:619:TYR:HD2	2.24	0.50
2:D:647:ALA:O	2:D:917:PRO:HG3	2.11	0.50
2:D:801:PHE:HD2	2:F:124:LEU:O	1.95	0.50
2:E:15:ILE:CD1	2:F:896:PHE:CD2	2.90	0.50
2:E:161:GLN:HE21	2:E:167:THR:CA	2.25	0.50
2:E:272:THR:H	2:E:298:ASN:HD21	1.59	0.50
2:E:388:ASN:CB	2:E:435:ILE:O	2.59	0.50
2:E:649:ARG:HB2	2:E:859:THR:CG2	2.40	0.50
2:E:658:THR:O	2:E:660:GLU:N	2.44	0.50
2:E:687:LEU:HD21	2:E:883:MET:CG	2.42	0.50
2:E:713:PRO:C	2:E:714:ASN:OD1	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:831:SER:O	2:E:831:SER:OG	2.23	0.50
2:F:83:ARG:CD	2:F:555:GLU:HB3	2.38	0.50
2:F:134:GLU:O	2:F:134:GLU:CD	2.54	0.50
2:F:149:PHE:CA	2:F:182:GLN:HB2	2.39	0.50
2:F:154:ILE:HD13	2:F:259:VAL:CB	2.39	0.50
2:F:276:TYR:HE2	2:F:292:THR:CG2	2.25	0.50
2:F:307:ASP:OD1	2:F:308:ASN:N	2.45	0.50
2:F:492:ASN:O	2:F:495:ALA:HB3	2.12	0.50
2:F:516:LEU:HA	2:F:519:ARG:CD	2.41	0.50
2:F:655:ARG:HE	2:F:887:THR:HG21	1.73	0.50
2:F:739:PHE:C	2:F:741:ILE:N	2.68	0.50
2:G:46:ARG:CZ	2:H:898:VAL:HG12	2.41	0.50
2:G:99:THR:HA	2:G:589:TYR:O	2.11	0.50
2:G:433:MET:CE	2:H:390:CYS:O	2.59	0.50
2:G:613:ASP:OD1	2:G:613:ASP:N	2.42	0.50
2:G:615:SER:HB2	2:G:899:VAL:O	2.11	0.50
2:H:110:GLY:HA3	2:H:578:GLY:O	2.11	0.50
2:H:121:TYR:HH	2:I:822:PRO:HB3	1.75	0.50
2:H:679:PRO:HB3	2:H:684:THR:O	2.12	0.50
2:I:135:TRP:CG	2:I:143:VAL:HB	2.45	0.50
2:I:729:VAL:HA	2:I:736:LYS:HG2	1.93	0.50
2:J:102:ASP:OD1	2:J:102:ASP:C	2.52	0.50
2:J:222:GLU:O	2:J:222:GLU:HG3	2.11	0.50
2:J:416:ASP:HB2	2:K:140:LYS:NZ	2.26	0.50
2:J:629:ILE:CG1	2:J:636:VAL:HG21	2.40	0.50
2:K:338:GLN:O	2:K:338:GLN:CG	2.60	0.50
2:K:808:THR:HG22	2:K:809:MET:N	2.27	0.50
2:K:866:LEU:HA	7:T:195:VAL:HG11	1.93	0.50
2:L:246:PHE:CE1	2:L:259:VAL:HG12	2.47	0.50
2:L:784:TYR:HE1	2:L:786:GLU:HG2	1.71	0.50
5:O:17:ALA:O	5:O:20:ALA:N	2.44	0.50
5:O:204:LEU:CD1	7:T:213:LEU:C	2.83	0.50
5:O:298:THR:CG2	5:O:302:GLU:HG2	2.41	0.50
7:T:6:PRO:HD2	7:T:52:ASN:HD21	1.74	0.50
1:5:23:ASN:HD21	2:D:18:GLN:HA	1.75	0.50
1:8:35:PHE:CE1	2:B:621:CYS:SG	3.03	0.50
2:A:67:ARG:HD2	2:A:587:ASN:HD22	1.77	0.50
2:A:67:ARG:HA	2:A:589:TYR:HE1	1.76	0.50
2:A:300:PRO:HB2	2:A:511:HIS:HB3	1.93	0.50
2:A:327:GLN:NE2	2:A:907:GLY:HA3	2.26	0.50
2:A:832:LEU:HD23	2:A:832:LEU:C	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:7:MET:HG2	7:T:185:ARG:HH21	1.77	0.50
2:B:371:ASP:O	2:B:374:VAL:HG22	2.11	0.50
2:B:458:TYR:CE2	2:B:501:PRO:CB	2.95	0.50
2:C:46:ARG:CD	2:C:47:ASN:H	2.22	0.50
2:C:144:ARG:CG	2:C:144:ARG:NH1	2.73	0.50
2:C:196:GLN:NE2	2:C:196:GLN:CA	2.73	0.50
2:C:279:ASP:OD1	2:C:280:VAL:N	2.44	0.50
2:C:454:LEU:HD22	2:C:501:PRO:HB2	1.94	0.50
2:C:724:GLY:C	2:C:726:GLY:N	2.68	0.50
2:D:391:PHE:CE2	2:F:801:PHE:CB	2.94	0.50
2:D:546:LEU:CD1	2:F:41:LEU:HD11	2.35	0.50
2:E:112:SER:O	2:E:301:ASN:HB2	2.11	0.50
2:E:171:ILE:O	2:E:175:LYS:CE	2.60	0.50
2:E:780:ASN:O	2:E:780:ASN:CG	2.48	0.50
2:E:799:SER:CB	2:E:814:ALA:HA	2.42	0.50
2:F:113:PHE:HD1	2:F:303:ILE:HD12	1.76	0.50
2:F:713:PRO:HG2	2:J:318:THR:HG21	1.91	0.50
2:F:720:ARG:HH12	2:F:727:TYR:HD2	1.59	0.50
2:F:787:TYR:O	2:F:787:TYR:CG	2.65	0.50
2:F:829:VAL:O	2:F:830:PRO:C	2.52	0.50
2:G:201:ARG:O	2:G:202:VAL:HG23	2.11	0.50
2:G:317:SER:C	2:G:318:THR:HG1	2.18	0.50
2:G:621:CYS:HB2	2:G:649:ARG:HH21	1.76	0.50
2:G:823:LEU:HD12	2:G:823:LEU:H	1.76	0.50
2:H:107:LEU:HD23	2:H:107:LEU:C	2.36	0.50
2:H:194:ALA:HB1	2:H:196:GLN:HE22	1.77	0.50
2:H:226:GLN:OE1	2:I:818:ASN:ND2	2.34	0.50
2:H:249:LEU:CD1	2:H:250:PRO:HD2	2.32	0.50
2:H:423:ALA:HB3	2:I:247:PHE:CE2	2.46	0.50
2:H:690:THR:OG1	2:H:881:ASP:OD2	2.21	0.50
2:H:870:SER:HB3	4:N:184:GLU:HB2	1.94	0.50
2:I:243:ASN:O	2:I:261:TYR:HA	2.11	0.50
2:I:309:PHE:HD2	2:I:535:VAL:CG2	2.19	0.50
2:I:527:ARG:HG3	2:I:528:TYR:CD1	2.47	0.50
2:I:669:ASP:OD1	2:I:672:PHE:N	2.45	0.50
2:J:124:LEU:HD22	2:K:802:VAL:CG2	2.41	0.50
2:J:135:TRP:CD1	2:J:141:ILE:HG21	2.46	0.50
2:J:209:MET:HE1	2:J:291:LEU:CD2	2.42	0.50
2:J:306:ARG:HD2	2:J:310:ILE:HG22	1.92	0.50
2:J:318:THR:CG2	2:J:338:GLN:HE22	2.23	0.50
2:J:386:LEU:HD12	2:L:443:ARG:HH22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:446:LEU:HD12	2:J:488:ASP:CA	2.41	0.50
2:J:813:GLN:NE2	2:L:146:GLN:O	2.44	0.50
2:K:435:ILE:CD1	2:L:389:TYR:O	2.60	0.50
2:L:94:LEU:HD12	2:L:592:PHE:HE1	1.77	0.50
2:L:183:VAL:HG22	2:L:184:GLY:N	2.26	0.50
2:L:196:GLN:O	2:L:257:LYS:NZ	2.44	0.50
2:L:220:THR:OG1	2:L:228:SER:N	2.36	0.50
5:O:57:PRO:HD3	9:W:9:UNK:CA	2.40	0.50
5:O:248:ALA:HB3	5:O:249:PRO:HD3	1.94	0.50
6:P:41:ASP:OD2	6:P:43:ARG:HG3	2.12	0.50
6:S:11:SER:O	6:S:13:LYS:N	2.35	0.50
6:S:18:SER:O	6:S:18:SER:OG	2.24	0.50
2:A:316:ASN:CG	2:A:340:ARG:HG3	2.36	0.50
2:A:526:GLY:CA	2:B:777:GLN:HG3	2.41	0.50
2:A:635:SER:HA	2:A:878:PHE:O	2.12	0.50
2:B:46:ARG:CZ	2:B:46:ARG:HB3	2.41	0.50
2:B:287:SER:O	2:B:288:ALA:HB3	2.11	0.50
2:B:385:GLU:O	2:B:386:LEU:HB3	2.11	0.50
2:B:545:LEU:CD1	2:B:901:ILE:HD13	2.40	0.50
2:B:707:ASN:O	2:B:709:ARG:N	2.42	0.50
2:C:53:THR:HG23	2:C:54:HIS:N	2.26	0.50
2:C:207:THR:O	2:C:209:MET:N	2.45	0.50
2:C:299:ARG:HG2	2:C:452:LEU:HD21	1.93	0.50
2:C:609:ASN:ND2	7:T:179:SER:OG	2.45	0.50
2:C:614:GLN:O	2:C:615:SER:CB	2.60	0.50
2:D:131:ASN:O	2:D:133:CYS:SG	2.56	0.50
2:D:796:HIS:CB	2:F:179:PRO:HB3	2.40	0.50
2:E:58:THR:HG22	2:E:595:MET:O	2.11	0.50
2:E:119:THR:HB	2:E:213:TYR:HE1	1.77	0.50
2:E:615:SER:C	2:E:616:PHE:CD1	2.88	0.50
2:E:721:THR:HG23	2:E:722:VAL:N	2.27	0.50
2:E:817:ALA:O	2:E:818:ASN:CB	2.54	0.50
2:E:885:GLU:CD	2:E:886:PRO:HD2	2.35	0.50
2:E:887:THR:C	2:E:888:LEU:HD23	2.37	0.50
2:F:109:ARG:NH2	2:F:526:GLY:O	2.45	0.50
2:F:474:TYR:CE1	2:F:478:ASN:HB3	2.47	0.50
2:F:870:SER:OG	4:N:177:VAL:HA	2.11	0.50
2:G:140:LYS:HA	2:I:418:TYR:HD1	1.76	0.50
2:G:374:VAL:HB	2:G:510:HIS:HE1	1.77	0.50
2:G:704:TRP:N	2:G:705:PRO:CD	2.74	0.50
2:G:729:VAL:HG22	2:G:730:ALA:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:143:VAL:HG22	2:H:144:ARG:H	1.76	0.50
2:H:885:GLU:CD	2:H:886:PRO:HD2	2.36	0.50
2:I:147:ALA:CB	2:I:200:GLY:HA3	2.41	0.50
2:I:309:PHE:HE2	2:I:533:ILE:HD12	1.72	0.50
2:I:513:ASN:HB3	2:I:516:LEU:HB3	1.93	0.50
2:I:846:ILE:HG22	2:I:846:ILE:O	2.10	0.50
2:J:375:ARG:HG2	2:J:375:ARG:HH11	1.76	0.50
2:J:413:THR:O	2:J:414:ALA:C	2.54	0.50
2:J:777:GLN:HE22	2:L:525:ASN:N	2.09	0.50
2:J:794:PHE:CZ	2:L:175:LYS:HG2	2.46	0.50
2:J:915:ARG:CB	2:J:915:ARG:NH1	2.68	0.50
2:J:919:SER:OG	2:J:920:ALA:N	2.43	0.50
2:K:269:ALA:O	2:K:270:PRO:C	2.52	0.50
2:K:356:ARG:HH12	2:K:367:VAL:CA	2.21	0.50
2:L:119:THR:CG2	2:L:120:ALA:N	2.75	0.50
2:L:242:VAL:HA	2:L:262:ALA:O	2.11	0.50
2:L:335:VAL:HG22	2:L:913:TYR:CD1	2.46	0.50
2:L:643:ARG:HG2	2:L:644:ASN:N	2.23	0.50
2:L:762:ASP:OD1	2:L:769:ARG:NH2	2.44	0.50
3:M:226:VAL:HG12	3:M:227:TYR:N	2.27	0.50
6:Q:28:TRP:HD1	6:Q:29:ALA:O	1.95	0.50
1:4:20:GLY:HA2	2:C:51:ALA:HA	1.94	0.50
2:A:62:GLN:HE21	2:A:597:HIS:CE1	2.29	0.50
2:A:362:MET:SD	2:B:754:PHE:HD2	2.34	0.50
2:A:708:ASP:HA	2:A:713:PRO:HB3	1.92	0.50
2:B:203:LEU:O	2:B:205:ASP:N	2.45	0.50
2:B:308:ASN:ND2	2:B:350:LEU:HD11	2.26	0.50
2:B:539:PHE:C	2:B:543:LYS:HG3	2.36	0.50
2:B:862:GLY:O	2:B:863:GLN:C	2.51	0.50
2:B:895:VAL:HG23	2:B:917:PRO:HB3	1.94	0.50
2:C:150:ILE:CD1	2:C:191:GLU:CG	2.90	0.50
2:C:150:ILE:HD11	2:C:191:GLU:CG	2.42	0.50
2:C:299:ARG:HH11	2:C:452:LEU:HD11	1.77	0.50
2:C:310:ILE:HG23	2:C:343:GLU:HG2	1.93	0.50
2:C:729:VAL:O	2:C:729:VAL:CG1	2.42	0.50
2:D:75:ASP:OD1	2:D:80:TYR:HB3	2.11	0.50
2:D:88:VAL:O	2:D:92:ARG:HG3	2.12	0.50
2:D:148:PRO:HA	2:F:428:GLY:O	2.12	0.50
2:D:307:ASP:CB	2:D:519:ARG:HH12	2.11	0.50
2:D:447:TYR:HH	2:E:385:GLU:H	1.60	0.50
2:D:468:PRO:HG2	2:D:475:ALA:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:603:LEU:HD13	2:F:31:PHE:CE1	2.47	0.50
2:D:809:MET:HE3	2:D:810:ARG:CG	2.25	0.50
2:E:449:ASN:O	2:E:510:HIS:NE2	2.45	0.50
2:E:459:LYS:HE2	2:E:480:ARG:HB3	1.93	0.50
2:E:468:PRO:HG3	2:E:475:ALA:CB	2.41	0.50
2:E:549:PRO:CD	2:E:604:GLU:HG3	2.41	0.50
2:E:596:ALA:O	2:E:599:THR:HG22	2.11	0.50
2:E:608:ARG:HG2	2:E:608:ARG:HH11	1.77	0.50
2:E:922:ASN:O	2:E:922:ASN:CG	2.49	0.50
2:F:101:PHE:HE1	2:F:554:TYR:OH	1.94	0.50
2:F:662:PRO:CB	2:F:664:LEU:HD21	2.42	0.50
2:F:902:HIS:O	2:F:904:PRO:CD	2.60	0.50
2:G:309:PHE:O	2:G:538:LYS:NZ	2.43	0.50
2:G:366:ALA:CB	2:G:519:ARG:HD3	2.41	0.50
2:G:488:ASP:HB3	2:G:490:TYR:CE2	2.47	0.50
2:H:370:TYR:HD1	2:H:508:PHE:CE1	2.29	0.50
2:H:797:ASN:OD1	2:H:798:ASN:N	2.44	0.50
2:J:71:VAL:HG22	2:J:83:ARG:O	2.12	0.50
2:J:121:TYR:HE2	2:K:822:PRO:CD	2.24	0.50
2:J:142:LYS:HG3	2:J:247:PHE:HE1	1.76	0.50
2:J:417:ASN:C	2:K:139:ASN:ND2	2.64	0.50
2:J:636:VAL:O	2:J:636:VAL:CG1	2.57	0.50
2:J:811:GLU:OE2	2:L:182:GLN:CA	2.59	0.50
2:K:376:ILE:HD11	2:K:772:GLN:HG3	1.93	0.50
2:K:539:PHE:HE1	2:K:540:PHE:CE1	2.30	0.50
2:K:787:TYR:CD1	2:K:788:GLN:N	2.80	0.50
2:L:73:ARG:HD2	2:L:80:TYR:CZ	2.46	0.50
2:L:118:GLY:HA2	2:L:297:PRO:HB3	1.93	0.50
2:L:176:THR:CB	2:L:201:ARG:NH1	2.74	0.50
2:L:861:LEU:HD12	2:L:861:LEU:H	1.77	0.50
3:M:288:TYR:O	3:M:289:GLU:HG3	2.12	0.50
6:Q:26:PRO:O	6:Q:27:ALA:HB3	2.12	0.50
6:S:9:ALA:O	6:S:10:VAL:C	2.55	0.50
7:T:37:GLY:O	7:T:41:ILE:HG22	2.11	0.50
2:A:28:LEU:N	2:B:606:MET:CE	2.75	0.50
2:A:33:ARG:HG2	2:A:33:ARG:O	2.12	0.50
2:A:128:THR:CG2	2:C:393:LEU:HD22	2.37	0.50
2:A:210:LEU:HD13	2:A:269:ALA:HB3	1.94	0.50
2:A:309:PHE:CD1	2:A:364:ASN:HB2	2.44	0.50
2:A:334:VAL:HA	2:A:913:TYR:OH	2.11	0.50
2:A:697:MET:HE1	2:A:700:SER:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:748:ASN:ND2	2:A:854:SER:O	2.43	0.50
2:A:798:ASN:OD1	2:C:123:SER:OG	2.29	0.50
2:B:140:LYS:HD2	2:B:140:LYS:N	2.26	0.50
2:B:148:PRO:O	2:B:183:VAL:HG11	2.12	0.50
2:B:162:ILE:O	2:B:168:ASN:ND2	2.45	0.50
2:B:177:TYR:CZ	2:B:200:GLY:HA2	2.44	0.50
2:B:202:VAL:HG23	2:B:262:ALA:CB	2.42	0.50
2:B:319:GLY:O	2:B:321:MET:N	2.45	0.50
2:B:361:SER:O	2:B:364:ASN:HA	2.12	0.50
2:B:471:LYS:HB3	2:B:476:TYR:CD2	2.46	0.50
2:B:480:ARG:CB	2:B:480:ARG:NH2	2.70	0.50
2:B:624:ASN:ND2	2:B:892:LEU:CD2	2.75	0.50
2:C:235:ASP:OD1	2:C:235:ASP:C	2.55	0.50
2:C:319:GLY:O	2:C:320:ASN:C	2.54	0.50
2:C:603:LEU:O	2:C:603:LEU:CG	2.52	0.50
2:C:677:SER:HA	2:C:682:ASP:OD2	2.11	0.50
2:C:811:GLU:C	2:C:811:GLU:CD	2.79	0.50
2:D:252:THR:HB	2:D:255:GLU:OE1	2.12	0.50
2:D:582:ARG:NH1	2:D:582:ARG:HG2	2.27	0.50
2:D:636:VAL:HG13	2:D:889:LEU:HD23	1.92	0.50
2:E:63:ARG:NH2	2:F:711:LEU:HD23	2.27	0.50
2:E:177:TYR:HB3	2:F:804:TYR:HD2	1.77	0.50
2:E:201:ARG:CG	2:F:815:TYR:CE1	2.84	0.50
2:E:202:VAL:HB	2:E:262:ALA:HB2	1.94	0.50
2:E:352:ALA:HA	2:E:763:ARG:CD	2.42	0.50
2:E:887:THR:O	2:E:887:THR:HG22	2.12	0.50
2:F:150:ILE:HD12	2:F:150:ILE:C	2.37	0.50
2:F:155:ASN:O	2:F:158:ASN:N	2.33	0.50
2:F:217:ALA:HB3	2:F:226:GLN:HE21	1.76	0.50
2:F:322:GLY:O	2:F:323:VAL:HG13	2.11	0.50
2:F:704:TRP:CH2	2:F:852:PHE:CE1	3.00	0.50
2:F:866:LEU:HD11	4:N:174:GLN:NE2	2.26	0.50
2:G:41:LEU:HD21	2:H:546:LEU:HD13	1.93	0.50
2:G:72:ASP:OD1	2:G:72:ASP:C	2.54	0.50
2:G:175:LYS:CA	2:G:175:LYS:CE	2.74	0.50
2:G:180:GLU:O	2:G:180:GLU:CG	2.59	0.50
2:G:291:LEU:CD2	2:I:188:TRP:CD1	2.95	0.50
2:G:388:ASN:HB3	2:I:440:ASN:HD22	1.77	0.50
2:H:70:PRO:HA	2:H:84:PHE:CD1	2.46	0.50
2:H:369:SER:O	2:H:513:ASN:HA	2.12	0.50
2:H:497:TRP:CE3	2:H:776:ARG:CD	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:921:GLY:HA2	2:J:702:VAL:HG12	1.94	0.50
2:I:144:ARG:O	2:I:144:ARG:HG3	2.12	0.50
2:I:173:ALA:O	2:I:174:ASP:C	2.55	0.50
2:I:613:ASP:OD2	2:I:900:ARG:NH1	2.45	0.50
2:J:204:LYS:HG3	2:J:263:GLU:O	2.12	0.50
2:J:433:MET:SD	2:K:433:MET:HB3	2.52	0.50
2:J:866:LEU:C	2:J:868:ALA:H	2.19	0.50
2:J:902:HIS:HE1	2:J:904:PRO:HB3	1.77	0.50
2:K:13:MET:HB3	2:L:898:VAL:HG11	1.93	0.50
2:K:62:GLN:NE2	2:K:594:PRO:HA	2.27	0.50
2:K:323:VAL:HG21	2:K:555:GLU:OE1	2.12	0.50
2:K:470:ASN:CG	2:K:473:THR:HG1	2.18	0.50
2:K:902:HIS:NE2	2:K:904:PRO:HB3	2.27	0.50
4:N:177:VAL:CG1	4:N:179:LYS:HE3	2.38	0.50
6:P:28:TRP:HE1	6:P:31:VAL:HB	1.75	0.50
6:S:39:ASN:OD1	6:S:40:VAL:N	2.45	0.50
1:4:13:HIS:ND1	1:4:13:HIS:C	2.69	0.50
2:A:313:MET:HE2	2:A:315:TYR:OH	2.10	0.50
2:A:375:ARG:HH12	2:A:838:LEU:CD1	2.24	0.50
2:A:647:ALA:N	2:A:862:GLY:O	2.43	0.50
2:A:711:LEU:CD2	2:A:727:TYR:CE1	2.94	0.50
2:B:24:LEU:HD11	2:B:45:PHE:HD2	1.76	0.50
2:B:217:ALA:O	2:B:218:LYS:C	2.55	0.50
2:B:226:GLN:NE2	2:C:817:ALA:O	2.45	0.50
2:B:851:ASN:O	2:B:852:PHE:C	2.55	0.50
2:C:691:PHE:CD1	2:C:880:VAL:HG12	2.47	0.50
2:D:277:LYS:O	2:D:278:PRO:C	2.54	0.50
2:D:513:ASN:O	2:D:517:ARG:HD2	2.11	0.50
2:D:517:ARG:NH2	2:E:380:HIS:ND1	2.59	0.50
2:D:717:GLU:OE2	2:D:720:ARG:HD3	2.12	0.50
2:D:729:VAL:HG22	2:D:730:ALA:H	1.77	0.50
2:D:788:GLN:HE21	2:F:222:GLU:CA	2.23	0.50
2:D:889:LEU:O	2:D:889:LEU:HG	2.12	0.50
2:E:339:ASP:HB2	2:E:915:ARG:HH11	1.77	0.50
2:E:390:CYS:HB2	2:E:433:MET:C	2.37	0.50
2:E:435:ILE:CD1	2:F:390:CYS:SG	2.96	0.50
2:E:499:PRO:HG2	2:E:502:MET:CE	2.34	0.50
2:E:643:ARG:O	2:E:871:ALA:HB1	2.11	0.50
2:E:779:VAL:HG12	2:E:829:VAL:CG2	2.26	0.50
2:E:881:ASP:O	2:E:882:PRO:C	2.54	0.50
2:F:329:SER:HB3	2:G:90:ASP:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:351:ASP:O	2:F:763:ARG:HD3	2.11	0.50
2:F:888:LEU:HD11	6:Q:25:LEU:HD22	1.94	0.50
2:G:433:MET:HE1	2:H:390:CYS:O	2.11	0.50
2:G:707:ASN:HB2	2:I:61:SER:HA	1.94	0.50
2:H:45:PHE:HD1	2:I:614:GLN:HA	1.77	0.50
2:H:78:TYR:HB3	6:P:40:VAL:HG21	1.93	0.50
2:H:458:TYR:CZ	2:H:501:PRO:HB3	2.46	0.50
2:I:309:PHE:CD2	2:I:533:ILE:HD12	2.47	0.50
2:I:516:LEU:HA	2:I:519:ARG:CZ	2.42	0.50
2:I:916:THR:C	2:I:918:PHE:H	2.20	0.50
2:J:167:THR:OG1	2:J:168:ASN:N	2.40	0.50
2:J:174:ASP:OD1	2:J:174:ASP:O	2.30	0.50
2:J:219:PRO:HG2	2:K:821:TYR:OH	2.12	0.50
2:J:219:PRO:O	2:J:220:THR:OG1	2.23	0.50
2:J:575:ARG:NH1	2:J:668:PHE:HE1	2.10	0.50
2:K:60:ARG:HE	2:K:597:HIS:CE1	2.30	0.50
2:K:90:ASP:OD1	2:K:906:ARG:NH2	2.38	0.50
2:K:124:LEU:H	2:L:798:ASN:HD21	1.59	0.50
2:K:135:TRP:HZ3	2:K:289:ASP:CB	2.25	0.50
2:K:142:LYS:CE	2:K:247:PHE:CZ	2.91	0.50
2:K:315:TYR:CE1	2:K:539:PHE:HB2	2.38	0.50
2:K:643:ARG:HD3	2:K:917:PRO:O	2.11	0.50
2:K:740:LEU:O	2:K:740:LEU:HD23	2.12	0.50
2:K:792:LEU:HD21	2:K:805:MET:HE1	1.93	0.50
2:L:390:CYS:C	2:L:391:PHE:HD1	2.20	0.50
2:L:503:ASP:OD1	2:L:689:HIS:NE2	2.44	0.50
2:L:506:ASN:HD21	2:L:677:SER:HG	1.53	0.50
3:M:225:GLY:C	3:M:282:LEU:HD11	2.36	0.50
5:O:204:LEU:O	5:O:207:VAL:HG23	2.11	0.50
7:T:94:ASP:OD1	7:T:97:ALA:N	2.30	0.50
1:7:11:PRO:N	2:G:621:CYS:SG	2.85	0.49
1:8:25:ILE:HG22	1:8:26:GLY:N	2.25	0.49
2:A:219:PRO:O	2:A:220:THR:CG2	2.60	0.49
2:A:335:VAL:CB	2:A:913:TYR:HE2	2.25	0.49
2:A:588:LEU:HD12	2:A:589:TYR:H	1.75	0.49
2:B:114:LYS:NZ	2:B:298:ASN:CA	2.75	0.49
2:B:320:ASN:CA	2:B:557:ASN:ND2	2.75	0.49
2:B:686:TYR:CG	2:B:687:LEU:CD1	2.89	0.49
2:B:795:GLN:O	2:B:796:HIS:HB3	2.11	0.49
2:B:863:GLN:HE22	5:O:57:PRO:HB3	1.77	0.49
2:B:895:VAL:CG2	2:B:917:PRO:CG	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:130:PRO:O	2:C:130:PRO:CG	2.54	0.49
2:C:184:GLY:HA2	2:C:191:GLU:CD	2.37	0.49
2:C:210:LEU:HD13	2:C:211:PRO:HD3	1.94	0.49
2:C:515:GLY:O	2:C:519:ARG:NE	2.45	0.49
2:C:849:SER:OG	2:C:859:THR:HB	2.12	0.49
2:D:39:PHE:CE2	2:D:41:LEU:HD11	2.47	0.49
2:D:134:GLU:HG3	2:D:202:VAL:HG21	1.94	0.49
2:D:247:PHE:CE1	2:F:403:SER:C	2.90	0.49
2:D:702:VAL:HG23	2:D:703:SER:N	2.26	0.49
2:E:116:TYR:CE2	2:F:824:ILE:HG13	2.47	0.49
2:E:159:GLY:N	2:E:261:TYR:OH	2.44	0.49
2:E:433:MET:HE3	2:F:390:CYS:CB	2.42	0.49
2:E:518:TYR:O	2:E:518:TYR:CD1	2.65	0.49
2:E:522:LEU:HD23	2:E:522:LEU:O	2.12	0.49
2:F:135:TRP:CD2	2:F:136:LYS:N	2.80	0.49
2:F:298:ASN:HB3	2:F:474:TYR:OH	2.11	0.49
2:F:339:ASP:CG	2:F:915:ARG:HH22	2.20	0.49
2:F:640:ILE:CG2	2:F:874:LEU:HG	2.42	0.49
2:G:96:MET:HE1	2:G:547:LEU:CD1	2.38	0.49
2:G:243:ASN:O	2:G:245:GLN:N	2.44	0.49
2:G:341:ASN:O	2:G:343:GLU:N	2.45	0.49
2:G:386:LEU:HD21	2:I:447:TYR:HB2	1.93	0.49
2:G:546:LEU:HD23	2:G:607:LEU:CD1	2.42	0.49
2:H:76:THR:OG1	2:H:79:SER:N	2.43	0.49
2:H:183:VAL:C	2:H:185:GLN:N	2.70	0.49
2:H:889:LEU:CD1	2:H:890:TYR:H	2.23	0.49
2:I:76:THR:HG22	2:I:77:ALA:N	2.27	0.49
2:I:114:LYS:HZ1	2:I:298:ASN:C	2.18	0.49
2:I:327:GLN:HB2	2:I:551:SER:O	2.12	0.49
2:I:718:ILE:HG23	2:I:738:TRP:CD1	2.47	0.49
2:J:76:THR:HG22	2:J:78:TYR:H	1.76	0.49
2:J:106:VAL:HG22	2:J:107:LEU:N	2.27	0.49
2:J:160:ILE:CD1	2:J:175:LYS:HD3	2.42	0.49
2:J:254:ASN:OD1	2:J:255:GLU:CD	2.54	0.49
2:J:704:TRP:HB3	2:J:705:PRO:HD2	1.94	0.49
2:K:249:LEU:HB3	2:K:251:SER:O	2.12	0.49
2:K:347:GLN:HE22	2:K:682:ASP:CA	2.24	0.49
2:K:430:ILE:O	2:K:431:PHE:C	2.54	0.49
2:K:643:ARG:O	2:K:872:HIS:N	2.30	0.49
2:K:740:LEU:HD23	2:K:740:LEU:C	2.37	0.49
2:K:777:GLN:HG3	2:K:833:THR:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:678:VAL:O	2:L:681:LEU:HD23	2.12	0.49
2:L:916:THR:CB	2:L:917:PRO:HD3	2.37	0.49
3:M:124:ILE:HG23	3:M:460:LEU:CD2	2.41	0.49
5:O:197:PHE:N	5:O:197:PHE:CD1	2.79	0.49
5:O:201:ARG:O	5:O:204:LEU:N	2.45	0.49
7:T:13:TYR:CD1	7:T:14:GLN:N	2.80	0.49
2:A:84:PHE:CE2	2:A:588:LEU:HB2	2.46	0.49
2:A:259:VAL:HG12	2:A:260:LEU:N	2.27	0.49
2:A:516:LEU:HD23	2:A:519:ARG:HH12	1.76	0.49
2:A:533:ILE:HG22	2:A:535:VAL:HG13	1.95	0.49
2:A:823:LEU:O	2:A:823:LEU:CD2	2.60	0.49
2:A:891:VAL:HG11	2:A:893:PHE:CZ	2.47	0.49
2:A:900:ARG:HH12	2:C:14:HIS:CE1	2.30	0.49
2:A:912:VAL:O	2:A:912:VAL:HG13	2.11	0.49
2:B:152:THR:OG1	2:B:161:GLN:HB3	2.12	0.49
2:B:154:ILE:CG2	2:B:160:ILE:HA	2.42	0.49
2:B:738:TRP:CD1	2:B:742:GLN:HG2	2.48	0.49
2:C:305:PHE:CE1	2:C:312:LEU:HD11	2.47	0.49
2:C:315:TYR:CE1	2:C:556:TRP:CZ2	3.00	0.49
2:C:581:VAL:HG11	2:C:582:ARG:NH2	2.27	0.49
2:C:729:VAL:HB	2:C:736:LYS:N	2.27	0.49
2:C:831:SER:OG	2:C:832:LEU:N	2.42	0.49
2:D:208:PRO:CD	2:D:284:THR:CG2	2.87	0.49
2:D:291:LEU:HD11	2:F:189:ASN:ND2	2.27	0.49
2:D:401:THR:CB	2:D:425:ILE:HD13	2.42	0.49
2:D:801:PHE:CE2	2:F:125:ALA:HA	2.47	0.49
2:E:58:THR:HG23	2:E:594:PRO:C	2.37	0.49
2:E:91:ASN:HD22	2:E:597:HIS:HB3	1.78	0.49
2:E:136:LYS:HB2	2:E:205:ASP:HB2	1.94	0.49
2:E:518:TYR:C	2:E:519:ARG:HG3	2.37	0.49
2:F:9:GLN:N	2:F:9:GLN:OE1	2.45	0.49
2:F:315:TYR:O	2:F:316:ASN:HB2	2.12	0.49
2:F:344:LEU:HD23	2:F:620:LEU:CD2	2.42	0.49
2:G:86:LEU:HD23	2:G:547:LEU:HD21	1.93	0.49
2:G:135:TRP:N	2:G:141:ILE:HG22	2.27	0.49
2:G:221:ASN:O	2:G:224:GLY:N	2.38	0.49
2:H:110:GLY:C	2:H:527:ARG:HH12	2.19	0.49
2:H:183:VAL:HG22	2:H:190:SER:HB2	1.94	0.49
2:H:227:ALA:HB2	2:H:242:VAL:CG2	2.42	0.49
2:H:273:HIS:O	2:H:273:HIS:CG	2.65	0.49
2:H:412:TRP:HA	2:I:142:LYS:NZ	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:800:GLY:CA	2:H:813:GLN:H	2.25	0.49
2:I:103:ILE:HG21	2:I:583:PHE:HE1	1.77	0.49
2:I:103:ILE:CD1	2:I:533:ILE:HD11	2.25	0.49
2:I:119:THR:HG23	2:I:271:ASP:CG	2.37	0.49
2:I:202:VAL:HG22	2:I:261:TYR:O	2.12	0.49
2:I:379:ASN:HD21	2:I:493:ILE:CA	2.24	0.49
2:J:229:LEU:O	2:J:231:THR:HG23	2.11	0.49
2:J:774:MET:HG2	2:J:836:LYS:O	2.12	0.49
2:K:139:ASN:OD1	2:K:140:LYS:N	2.45	0.49
2:K:297:PRO:HG2	2:K:297:PRO:O	2.11	0.49
2:K:404:GLY:O	2:K:413:THR:HG22	2.11	0.49
2:K:443:ARG:HD2	2:L:386:LEU:CD2	2.42	0.49
2:K:483:VAL:HG21	2:K:792:LEU:HD21	1.93	0.49
2:K:745:SER:HB2	2:K:847:PRO:HG3	1.94	0.49
2:L:171:ILE:O	2:L:174:ASP:N	2.45	0.49
2:L:197:LYS:N	2:L:197:LYS:HD3	2.27	0.49
2:L:453:TYR:HD2	2:L:510:HIS:HD1	1.61	0.49
2:L:503:ASP:CG	2:L:838:LEU:HD21	2.37	0.49
2:L:576:VAL:HG13	2:L:577:ASP:N	2.27	0.49
3:M:408:HIS:CE1	3:M:457:VAL:HG13	2.46	0.49
1:4:23:ASN:OD1	2:C:18:GLN:C	2.54	0.49
1:5:18:PHE:O	1:5:18:PHE:CG	2.64	0.49
2:A:9:GLN:O	2:A:11:SER:N	2.41	0.49
2:A:309:PHE:HZ	2:B:731:GLN:NE2	2.10	0.49
2:A:324:LEU:HD21	2:A:909:ILE:HD13	1.93	0.49
2:A:324:LEU:O	2:A:324:LEU:HD23	2.12	0.49
2:A:661:THR:O	2:A:661:THR:OG1	2.29	0.49
2:B:23:TYR:CE2	2:B:24:LEU:HD12	2.47	0.49
2:B:131:ASN:O	2:B:133:CYS:SG	2.65	0.49
2:C:725:GLU:H	2:C:725:GLU:CD	2.03	0.49
2:D:119:THR:CB	2:D:213:TYR:CE1	2.94	0.49
2:D:175:LYS:HG3	2:D:223:LYS:HG2	1.94	0.49
2:D:186:THR:OG1	2:D:188:TRP:N	2.34	0.49
2:D:318:THR:CA	2:D:321:MET:HE2	2.25	0.49
2:D:429:ASN:OD1	2:F:810:ARG:CZ	2.60	0.49
2:D:432:ALA:CB	2:F:810:ARG:HH21	2.25	0.49
2:D:443:ARG:HG2	2:D:443:ARG:HH21	1.76	0.49
2:D:625:MET:O	2:D:626:LEU:HD23	2.12	0.49
2:D:731:GLN:HG3	2:F:532:HIS:O	2.12	0.49
2:D:741:ILE:CD1	2:D:852:PHE:CD2	2.96	0.49
2:D:763:ARG:HD3	2:D:763:ARG:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:175:LYS:H	2:E:201:ARG:NH1	2.09	0.49
2:E:508:PHE:CE2	2:E:684:THR:HG22	2.47	0.49
2:F:36:ASP:OD1	2:F:36:ASP:C	2.54	0.49
2:F:82:VAL:HB	2:F:84:PHE:CE1	2.47	0.49
2:F:339:ASP:OD1	2:F:339:ASP:C	2.54	0.49
2:F:655:ARG:NH1	2:F:883:MET:HE2	2.27	0.49
2:G:67:ARG:HA	2:G:589:TYR:CD1	2.47	0.49
2:G:148:PRO:HA	2:I:428:GLY:CA	2.40	0.49
2:G:208:PRO:HD2	2:G:267:ILE:CG2	2.42	0.49
2:G:371:ASP:HB3	2:G:374:VAL:HG22	1.93	0.49
2:G:885:GLU:O	2:G:887:THR:HG23	2.11	0.49
2:H:125:ALA:HB1	2:I:801:PHE:CE2	2.46	0.49
2:H:277:LYS:HA	2:H:293:GLN:HG3	1.93	0.49
2:H:655:ARG:HH11	2:H:690:THR:CG2	2.26	0.49
2:I:242:VAL:O	2:I:242:VAL:HG13	2.11	0.49
2:I:279:ASP:OD1	2:I:279:ASP:N	2.44	0.49
2:I:436:ASN:HB3	2:I:439:ALA:CB	2.41	0.49
2:I:660:GLU:HG2	2:I:674:TYR:CE1	2.46	0.49
2:J:35:THR:HG22	2:J:39:PHE:O	2.12	0.49
2:J:109:ARG:HB2	2:J:303:ILE:HD12	1.94	0.49
2:J:394:GLY:O	2:K:144:ARG:NH2	2.45	0.49
2:J:740:LEU:HD23	2:J:740:LEU:C	2.36	0.49
2:J:841:ARG:HH11	2:J:841:ARG:HG3	1.76	0.49
2:K:74:GLU:OE2	2:K:81:LYS:HG2	2.12	0.49
2:K:308:ASN:HD21	2:K:350:LEU:HD11	1.77	0.49
2:K:399:THR:HG21	2:L:145:GLY:CA	2.42	0.49
2:K:548:LEU:HB3	2:K:549:PRO:HD2	1.94	0.49
2:K:589:TYR:CD2	2:L:736:LYS:NZ	2.80	0.49
2:L:503:ASP:C	2:L:504:ASN:HD22	2.21	0.49
2:L:575:ARG:HG3	2:L:575:ARG:NH1	2.26	0.49
2:L:698:PHE:CE2	2:L:867:TYR:CE1	3.00	0.49
7:U:61:LEU:H	7:U:61:LEU:HD23	1.77	0.49
1:2:20:GLY:O	1:2:21:THR:HG22	2.11	0.49
2:A:86:LEU:HD23	2:A:87:ALA:N	2.28	0.49
2:A:518:TYR:HE1	2:B:496:ARG:NH1	2.10	0.49
2:A:704:TRP:C	2:A:706:GLY:N	2.68	0.49
2:B:7:MET:HG2	7:T:185:ARG:NH2	2.27	0.49
2:B:93:VAL:HB	2:B:546:LEU:HD11	1.94	0.49
2:B:357:SER:O	2:B:357:SER:OG	2.25	0.49
2:C:259:VAL:HG22	2:C:260:LEU:H	1.78	0.49
2:C:299:ARG:CB	2:C:300:PRO:CD	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:315:TYR:OH	2:C:538:LYS:HB2	2.11	0.49
2:C:889:LEU:HD23	2:C:889:LEU:C	2.36	0.49
2:D:155:ASN:OD1	2:D:156:LYS:N	2.45	0.49
2:D:591:ASN:OD1	2:E:740:LEU:HD11	2.12	0.49
2:E:112:SER:HG	2:E:474:TYR:CB	2.26	0.49
2:E:148:PRO:O	2:E:148:PRO:CG	2.58	0.49
2:E:208:PRO:O	2:E:267:ILE:HG21	2.11	0.49
2:E:451:ALA:O	2:E:482:ALA:HB1	2.12	0.49
2:E:810:ARG:O	2:E:810:ARG:CD	2.61	0.49
2:F:18:GLN:C	2:F:48:PRO:HG3	2.37	0.49
2:F:384:ASP:O	2:F:385:GLU:HG2	2.12	0.49
2:F:793:PRO:HB2	2:F:794:PHE:CD1	2.43	0.49
2:F:815:TYR:HD2	2:F:816:PRO:HD2	1.78	0.49
2:G:18:GLN:CG	2:G:23:TYR:HB3	2.42	0.49
2:G:380:HIS:HD2	2:I:521:MET:HE1	1.71	0.49
2:G:545:LEU:HD11	2:G:903:GLN:NE2	2.26	0.49
2:G:648:PHE:HE2	2:G:651:TRP:CZ2	2.28	0.49
2:G:896:PHE:CE2	2:I:15:ILE:CD1	2.95	0.49
2:H:127:LYS:HE3	2:H:213:TYR:CE2	2.47	0.49
2:H:156:LYS:HB2	2:H:157:ASP:OD1	2.12	0.49
2:H:275:VAL:HG11	2:H:807:PRO:CG	2.35	0.49
2:H:379:ASN:ND2	2:H:379:ASN:O	2.45	0.49
2:H:678:VAL:HG11	2:H:681:LEU:CD2	2.42	0.49
2:H:770:ASN:ND2	2:H:840:ASP:O	2.45	0.49
2:I:399:THR:HA	2:I:426:GLU:CA	2.42	0.49
2:I:727:TYR:HA	2:I:736:LYS:HD3	1.94	0.49
2:I:746:HIS:CD2	2:I:845:ARG:HD3	2.48	0.49
2:J:153:ASN:HB3	2:J:161:GLN:CG	2.22	0.49
2:J:398:ALA:HB3	2:J:426:GLU:CB	2.14	0.49
2:J:508:PHE:O	2:J:513:ASN:ND2	2.46	0.49
2:K:24:LEU:H	2:K:24:LEU:CD2	2.25	0.49
2:K:35:THR:HG22	2:K:35:THR:O	2.12	0.49
2:K:43:ASN:OD1	2:L:544:ASN:ND2	2.46	0.49
2:K:94:LEU:HD11	2:K:590:ALA:HB1	1.94	0.49
2:K:340:ARG:NH1	2:K:540:PHE:HE1	2.10	0.49
2:K:388:ASN:HD22	2:K:437:LEU:H	1.61	0.49
2:K:608:ARG:NH1	2:K:906:ARG:HA	2.17	0.49
2:L:101:PHE:CZ	2:L:554:TYR:HE2	2.30	0.49
2:L:874:LEU:CD2	2:L:876:MET:HG3	2.43	0.49
3:M:80:LEU:HD13	3:M:475:VAL:HG11	1.94	0.49
3:M:250:ARG:NH1	3:M:371:SER:HG	2.06	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:367:VAL:HG22	3:M:409:ALA:HB2	1.94	0.49
7:T:18:GLY:HA3	7:T:188:GLY:CA	2.42	0.49
1:0:19:LEU:CD1	1:0:28:PHE:HB2	2.34	0.49
2:A:128:THR:O	2:A:129:ALA:HB2	2.12	0.49
2:A:375:ARG:NH1	2:A:838:LEU:HD12	2.27	0.49
2:A:617:ASN:OD1	2:C:46:ARG:CZ	2.61	0.49
2:A:892:LEU:O	2:A:893:PHE:C	2.55	0.49
2:B:109:ARG:HH12	2:B:529:VAL:HG11	1.77	0.49
2:B:114:LYS:HZ1	2:B:298:ASN:N	2.11	0.49
2:B:168:ASN:ND2	2:B:169:GLN:O	2.45	0.49
2:B:206:THR:O	2:B:207:THR:C	2.56	0.49
2:B:265:VAL:HG13	2:B:266:SER:N	2.26	0.49
2:B:651:TRP:NE1	2:B:876:MET:HE1	2.23	0.49
2:C:180:GLU:O	2:C:180:GLU:CG	2.51	0.49
2:C:446:LEU:C	2:C:448:SER:N	2.70	0.49
2:C:660:GLU:O	2:C:678:VAL:HG13	2.12	0.49
2:D:114:LYS:HB3	2:D:116:TYR:CE1	2.47	0.49
2:D:261:TYR:N	2:D:261:TYR:CD1	2.79	0.49
2:D:435:ILE:HD11	2:E:390:CYS:HA	1.94	0.49
2:D:454:LEU:HD11	2:D:487:LEU:HD22	1.93	0.49
2:D:776:ARG:NH2	2:D:834:GLN:OE1	2.45	0.49
2:D:810:ARG:NH1	2:E:432:ALA:HB3	2.28	0.49
2:E:72:ASP:O	2:E:73:ARG:HG3	2.11	0.49
2:E:137:ASP:HB2	2:E:140:LYS:NZ	2.28	0.49
2:E:246:PHE:CD1	2:E:259:VAL:HG12	2.48	0.49
2:E:268:GLU:OE1	2:E:270:PRO:HG3	2.12	0.49
2:E:516:LEU:HD21	2:E:568:SER:C	2.37	0.49
2:E:771:PHE:O	2:E:771:PHE:CG	2.65	0.49
2:F:138:ASN:O	2:F:139:ASN:C	2.54	0.49
2:F:177:TYR:CD1	2:F:177:TYR:C	2.85	0.49
2:F:189:ASN:O	2:F:191:GLU:N	2.45	0.49
2:F:296:ALA:HB1	2:F:297:PRO:HD3	1.93	0.49
2:F:334:VAL:HA	2:F:913:TYR:OH	2.12	0.49
2:F:672:PHE:O	2:F:672:PHE:HD1	1.94	0.49
2:G:352:ALA:O	2:G:353:LEU:HG	2.13	0.49
2:H:268:GLU:CB	2:H:270:PRO:HD3	2.39	0.49
2:H:624:ASN:ND2	2:H:680:TYR:HE1	2.11	0.49
2:I:43:ASN:OD1	2:I:43:ASN:C	2.56	0.49
2:I:135:TRP:CZ2	2:I:143:VAL:HG11	2.47	0.49
2:I:154:ILE:HD13	2:I:159:GLY:O	2.11	0.49
2:I:719:LYS:HD2	2:I:733:ASN:ND2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:915:ARG:O	2:I:919:SER:HA	2.12	0.49
2:J:15:ILE:HG23	2:K:896:PHE:CE2	2.47	0.49
2:J:259:VAL:O	2:J:259:VAL:HG23	2.12	0.49
2:J:405:ILE:CD1	2:J:410:GLN:HB3	2.42	0.49
2:J:582:ARG:HH11	2:J:582:ARG:HB3	1.77	0.49
2:J:692:LYS:C	2:J:693:LYS:HG3	2.36	0.49
2:J:845:ARG:HH11	2:J:845:ARG:HG2	1.78	0.49
2:J:859:THR:HG23	2:J:862:GLY:H	1.78	0.49
2:L:107:LEU:HD23	2:L:107:LEU:C	2.38	0.49
2:L:866:LEU:HD21	7:U:233:ASP:CB	2.31	0.49
5:O:17:ALA:HB3	5:O:130:ARG:HE	1.77	0.49
1:2:16:ARG:NH1	2:D:31:PHE:HD2	2.10	0.49
1:2:18:PHE:N	1:2:18:PHE:CD1	2.80	0.49
2:A:219:PRO:HA	2:A:225:GLY:O	2.13	0.49
2:A:350:LEU:HD22	2:A:356:ARG:CG	2.43	0.49
2:A:517:ARG:HH12	2:B:380:HIS:CE1	2.30	0.49
2:A:652:SER:O	2:A:892:LEU:N	2.46	0.49
2:A:677:SER:HG	2:A:684:THR:HG21	1.76	0.49
2:A:698:PHE:HB2	2:A:702:VAL:HG23	1.92	0.49
2:A:733:ASN:OD1	2:A:835:LYS:HB2	2.12	0.49
2:A:797:ASN:OD1	2:A:798:ASN:N	2.43	0.49
2:A:798:ASN:HD21	2:C:124:LEU:HD13	1.77	0.49
2:B:63:ARG:C	2:B:64:LEU:HD12	2.38	0.49
2:B:65:THR:C	2:B:66:LEU:HD22	2.37	0.49
2:B:90:ASP:OD1	2:B:91:ASN:N	2.45	0.49
2:B:114:LYS:HG3	2:C:824:ILE:HD13	1.95	0.49
2:B:640:ILE:HD12	2:B:641:PRO:CD	2.39	0.49
2:C:156:LYS:O	2:C:157:ASP:C	2.55	0.49
2:C:379:ASN:C	2:C:381:GLY:N	2.67	0.49
2:C:733:ASN:OD1	2:C:733:ASN:O	2.31	0.49
2:C:743:MET:CE	2:C:749:ILE:CG1	2.90	0.49
2:D:177:TYR:HB2	2:D:201:ARG:HD2	1.94	0.49
2:D:201:ARG:HA	2:D:261:TYR:O	2.12	0.49
2:D:228:SER:OG	2:D:241:ASP:N	2.34	0.49
2:D:279:ASP:HA	2:D:464:ASN:HD21	1.63	0.49
2:D:312:LEU:O	2:D:313:MET:CG	2.61	0.49
2:D:341:ASN:ND2	2:D:680:TYR:O	2.46	0.49
2:F:178:GLN:HE22	2:F:201:ARG:N	2.10	0.49
2:F:310:ILE:HG22	2:F:343:GLU:OE1	2.13	0.49
2:F:620:LEU:O	2:F:621:CYS:C	2.55	0.49
2:G:143:VAL:O	2:G:143:VAL:CG1	2.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:360:PHE:O	2:G:360:PHE:HD1	1.89	0.49
2:G:394:GLY:O	2:G:396:SER:N	2.45	0.49
2:G:442:TRP:CD1	2:G:489:THR:HB	2.48	0.49
2:G:747:TYR:O	2:G:748:ASN:C	2.55	0.49
2:H:143:VAL:HG22	2:H:144:ARG:N	2.26	0.49
2:H:562:VAL:CG2	2:H:566:LEU:HD13	2.43	0.49
2:H:659:LYS:HB3	2:H:659:LYS:NZ	2.27	0.49
2:H:720:ARG:NH1	2:H:720:ARG:HG2	2.27	0.49
2:H:874:LEU:HD21	2:H:876:MET:HB3	1.94	0.49
2:I:88:VAL:HG21	2:I:549:PRO:HA	1.92	0.49
2:I:119:THR:OG1	2:I:297:PRO:HG3	2.12	0.49
2:J:135:TRP:N	2:J:135:TRP:HE3	2.10	0.49
2:J:625:MET:HB2	2:J:891:VAL:O	2.13	0.49
2:J:687:LEU:HD21	2:J:883:MET:SD	2.53	0.49
2:J:711:LEU:O	2:J:713:PRO:HD3	2.13	0.49
2:K:9:GLN:HA	2:K:12:TYR:CB	2.42	0.49
2:K:78:TYR:HD2	2:K:668:PHE:HD2	1.59	0.49
2:K:757:PRO:HD2	2:K:768:PHE:CD2	2.47	0.49
2:L:299:ARG:HH22	2:L:459:LYS:NZ	2.09	0.49
2:L:356:ARG:HH12	2:L:367:VAL:N	2.11	0.49
2:L:379:ASN:HD22	2:L:442:TRP:HE1	1.61	0.49
3:M:67:VAL:HG13	3:M:93:VAL:HB	1.95	0.49
3:M:136:MET:C	3:M:137:SER:HG	2.07	0.49
7:T:204:PHE:O	7:T:205:ASN:ND2	2.45	0.49
7:U:17:MET:HE2	7:U:17:MET:N	2.27	0.49
2:A:221:ASN:C	2:B:788:GLN:HE22	2.19	0.49
2:A:344:LEU:HD23	2:A:344:LEU:C	2.38	0.49
2:A:655:ARG:HH12	2:A:883:MET:HE2	1.76	0.49
2:B:63:ARG:HB2	2:B:66:LEU:HD21	1.94	0.49
2:B:275:VAL:O	2:B:275:VAL:HG22	2.12	0.49
2:B:662:PRO:O	2:B:662:PRO:CG	2.59	0.49
2:B:872:HIS:O	2:B:873:ALA:HB2	2.13	0.49
2:C:177:TYR:O	2:C:177:TYR:CG	2.64	0.49
2:C:179:PRO:C	2:C:181:PRO:N	2.68	0.49
2:C:180:GLU:O	2:C:180:GLU:HG2	2.12	0.49
2:C:490:TYR:CE2	2:C:797:ASN:HB2	2.45	0.49
2:C:653:PHE:O	2:C:654:THR:OG1	2.25	0.49
2:D:143:VAL:HG21	2:F:425:ILE:HD12	1.94	0.49
2:D:206:THR:N	2:D:285:ILE:HD11	2.28	0.49
2:D:247:PHE:CE1	2:F:404:GLY:N	2.80	0.49
2:D:306:ARG:HA	2:D:519:ARG:NH2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:572:ASN:ND2	2:D:577:ASP:OD2	2.45	0.49
2:D:861:LEU:HD23	2:D:864:ASN:CB	2.42	0.49
2:E:66:LEU:HD12	2:E:592:PHE:CZ	2.47	0.49
2:E:101:PHE:CZ	2:E:554:TYR:HE2	2.30	0.49
2:E:116:TYR:HE2	2:F:824:ILE:HD11	1.78	0.49
2:E:156:LYS:CD	2:E:246:PHE:CE2	2.95	0.49
2:E:370:TYR:HD2	2:E:375:ARG:HB2	1.78	0.49
2:E:468:PRO:HG3	2:E:475:ALA:HB3	1.94	0.49
2:E:655:ARG:CZ	2:E:883:MET:HG2	2.42	0.49
2:F:302:TYR:H	2:F:569:SER:HB3	1.77	0.49
2:F:323:VAL:HG12	2:F:332:ASN:HB2	1.94	0.49
2:F:499:PRO:HG2	2:F:502:MET:HG3	1.95	0.49
2:F:747:TYR:CD2	2:F:757:PRO:HG3	2.47	0.49
2:F:777:GLN:HG3	2:F:833:THR:HA	1.93	0.49
2:F:820:PRO:CD	2:F:820:PRO:O	2.58	0.49
2:G:101:PHE:CZ	2:G:554:TYR:HE1	2.30	0.49
2:G:116:TYR:CE2	2:H:824:ILE:HD12	2.48	0.49
2:G:134:GLU:OE1	2:G:134:GLU:CA	2.52	0.49
2:G:143:VAL:HG13	2:G:144:ARG:CB	2.42	0.49
2:G:204:LYS:N	2:G:263:GLU:O	2.45	0.49
2:G:290:LEU:O	2:G:293:GLN:HG3	2.11	0.49
2:G:301:ASN:O	2:G:302:TYR:C	2.54	0.49
2:G:756:VAL:CG1	2:I:360:PHE:HB2	2.42	0.49
2:G:908:VAL:HG13	2:G:908:VAL:O	2.11	0.49
2:H:58:THR:CA	2:H:596:ALA:HA	2.43	0.49
2:H:124:LEU:O	2:H:124:LEU:HG	2.12	0.49
2:H:320:ASN:CA	2:H:557:ASN:HD22	2.26	0.49
2:H:835:LYS:HD2	6:Q:55:TYR:HD2	1.78	0.49
2:H:920:ALA:C	2:J:702:VAL:HG12	2.38	0.49
2:I:537:GLN:OE1	2:I:537:GLN:HA	2.11	0.49
2:I:607:LEU:O	2:I:607:LEU:HD23	2.13	0.49
2:I:653:PHE:CE2	2:I:846:ILE:HD12	2.47	0.49
2:I:691:PHE:O	2:I:718:ILE:HB	2.13	0.49
2:J:8:PRO:CB	7:T:47:ILE:HD11	2.43	0.49
2:J:131:ASN:ND2	2:J:131:ASN:N	2.60	0.49
2:J:299:ARG:HH11	2:J:570:LEU:CD1	2.23	0.49
2:J:409:GLY:N	2:J:411:THR:HB	2.26	0.49
2:J:509:ASN:HD21	2:J:677:SER:N	2.01	0.49
2:J:678:VAL:O	2:J:678:VAL:HG13	2.12	0.49
2:J:688:ASN:HB3	2:J:844:TRP:CD1	2.47	0.49
2:J:723:ASP:OD1	2:J:725:GLU:O	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:732:CYS:HB2	2:J:837:PHE:HB3	1.93	0.49
2:K:125:ALA:CB	2:L:801:PHE:HE2	2.25	0.49
2:K:374:VAL:HG21	2:K:510:HIS:CE1	2.48	0.49
2:K:729:VAL:HG22	2:K:734:MET:HB3	1.94	0.49
2:K:924:THR:HG22	2:K:925:THR:N	2.28	0.49
2:L:291:LEU:H	2:L:291:LEU:CD2	2.25	0.49
2:L:389:TYR:CD1	2:L:434:GLU:HB2	2.47	0.49
2:L:698:PHE:HE1	2:L:874:LEU:CD1	2.26	0.49
2:L:837:PHE:O	2:L:838:LEU:HD23	2.13	0.49
2:L:866:LEU:HD12	2:L:866:LEU:O	2.13	0.49
3:M:111:PHE:HE2	3:M:468:LEU:HD21	1.78	0.49
3:M:274:LEU:HD21	3:M:343:TRP:CD1	2.48	0.49
5:O:94:ILE:HG13	5:O:94:ILE:O	2.12	0.49
6:P:23:THR:O	6:P:24:ARG:C	2.56	0.49
7:T:168:PHE:HD1	7:T:169:THR:HG23	1.78	0.49
1:7:11:PRO:HD2	2:G:617:ASN:ND2	2.28	0.49
2:A:620:LEU:O	2:A:621:CYS:C	2.53	0.49
2:A:660:GLU:HB3	2:A:674:TYR:HE2	1.76	0.49
2:A:750:GLY:HA2	2:A:754:PHE:HE1	1.70	0.49
2:A:811:GLU:CD	2:C:181:PRO:HA	2.37	0.49
2:A:822:PRO:HA	2:C:121:TYR:OH	2.12	0.49
2:B:160:ILE:HD12	2:B:199:ALA:HB2	1.94	0.49
2:B:310:ILE:HD12	2:B:681:LEU:HD12	1.95	0.49
2:B:464:ASN:O	2:B:465:ILE:C	2.55	0.49
2:B:636:VAL:O	2:B:638:ILE:HG23	2.13	0.49
2:B:699:ASP:OD1	2:B:872:HIS:CG	2.66	0.49
2:B:791:THR:HB	2:B:793:PRO:CD	2.42	0.49
2:B:867:TYR:O	2:B:868:ALA:C	2.54	0.49
2:C:30:GLN:C	2:C:32:ALA:N	2.66	0.49
2:C:564:MET:HE2	2:C:564:MET:CA	2.38	0.49
2:C:695:SER:HB3	2:C:877:THR:HG22	1.95	0.49
2:C:817:ALA:O	2:C:818:ASN:ND2	2.46	0.49
2:D:73:ARG:HD2	2:D:586:ILE:CD1	2.42	0.49
2:D:483:VAL:HG13	2:D:486:ALA:H	1.78	0.49
2:E:110:GLY:CA	2:E:527:ARG:HH12	2.24	0.49
2:E:155:ASN:O	2:E:158:ASN:O	2.31	0.49
2:E:271:ASP:O	2:E:272:THR:CG2	2.61	0.49
2:E:334:VAL:O	2:E:334:VAL:CG1	2.58	0.49
2:E:630:PRO:HG2	2:E:633:ALA:HB2	1.95	0.49
2:E:651:TRP:HE1	2:E:874:LEU:CD2	2.25	0.49
2:F:74:GLU:CB	2:G:69:VAL:HG11	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:151:GLY:O	2:F:196:GLN:HB3	2.13	0.49
2:F:172:TYR:CD1	2:F:172:TYR:N	2.75	0.49
2:G:111:PRO:CA	2:G:527:ARG:HH12	2.26	0.49
2:G:223:LYS:HE2	2:G:223:LYS:CA	2.38	0.49
2:G:296:ALA:CB	2:G:297:PRO:HD3	2.13	0.49
2:G:471:LYS:HA	2:G:476:TYR:HD2	1.76	0.49
2:G:647:ALA:H	2:G:917:PRO:CD	2.26	0.49
2:G:784:TYR:CE2	2:G:829:VAL:CG1	2.95	0.49
2:H:629:ILE:HG23	2:H:630:PRO:HD2	1.94	0.49
2:H:662:PRO:N	2:H:672:PHE:HE2	2.11	0.49
2:H:757:PRO:HD2	2:H:768:PHE:HD2	1.77	0.49
2:H:784:TYR:O	2:H:787:TYR:N	2.36	0.49
2:I:149:PHE:HZ	2:I:162:ILE:HB	1.76	0.49
2:I:379:ASN:OD1	2:I:494:GLY:N	2.46	0.49
2:I:549:PRO:HG2	2:I:604:GLU:OE1	2.12	0.49
2:I:626:LEU:HD23	2:I:888:LEU:HD13	1.95	0.49
2:J:56:VAL:HG21	2:L:38:TYR:OH	2.13	0.49
2:J:213:TYR:O	2:J:213:TYR:CG	2.64	0.49
2:J:318:THR:CB	2:J:338:GLN:HE22	2.24	0.49
2:J:395:GLY:CA	2:K:144:ARG:NH2	2.67	0.49
2:J:418:TYR:O	2:J:420:ASP:N	2.46	0.49
2:J:548:LEU:HD21	2:J:607:LEU:CD2	2.34	0.49
2:J:704:TRP:CB	2:J:705:PRO:CD	2.90	0.49
2:K:50:VAL:HA	2:L:858:LEU:HB3	1.94	0.49
2:K:863:GLN:O	2:K:863:GLN:HG2	2.12	0.49
2:L:184:GLY:O	2:L:185:GLN:C	2.56	0.49
2:L:745:SER:HB3	2:L:847:PRO:CG	2.41	0.49
2:L:799:SER:HB3	2:L:813:GLN:O	2.13	0.49
3:M:236:ILE:HD13	3:M:244:VAL:HG11	1.94	0.49
2:A:346:TYR:CE2	2:A:350:LEU:HD12	2.48	0.49
2:B:154:ILE:HD12	2:B:155:ASN:N	2.28	0.49
2:B:346:TYR:O	2:B:347:GLN:C	2.54	0.49
2:B:555:GLU:HG2	2:B:556:TRP:N	2.28	0.49
2:B:694:VAL:HG13	2:B:716:PHE:HB2	1.94	0.49
2:C:282:GLN:HE21	2:C:283:GLY:N	2.11	0.49
2:C:308:ASN:ND2	2:C:350:LEU:CD1	2.76	0.49
2:C:798:ASN:OD1	2:C:798:ASN:N	2.46	0.49
2:C:865:MET:CB	2:C:869:ASN:HD22	2.26	0.49
2:D:216:TYR:CE1	2:E:822:PRO:HD3	2.47	0.49
2:D:298:ASN:CB	2:D:478:ASN:HD21	2.25	0.49
2:D:300:PRO:HG2	2:D:511:HIS:ND1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:310:ILE:O	2:D:310:ILE:CG2	2.60	0.49
2:D:344:LEU:HG	2:D:620:LEU:HD12	1.93	0.49
2:E:56:VAL:HG23	2:E:57:THR:CG2	2.26	0.49
2:E:263:GLU:OE1	2:F:815:TYR:CE2	2.65	0.49
2:E:497:TRP:CE3	2:E:774:MET:SD	3.06	0.49
2:E:640:ILE:CD1	2:E:918:PHE:CZ	2.93	0.49
2:E:822:PRO:HD2	2:E:829:VAL:HG13	1.94	0.49
2:F:161:GLN:NE2	2:F:163:GLY:HA2	2.27	0.49
2:F:704:TRP:C	2:F:704:TRP:CE3	2.91	0.49
2:F:922:ASN:OD1	2:H:867:TYR:OH	2.29	0.49
2:G:47:ASN:OD1	2:G:47:ASN:N	2.45	0.49
2:G:94:LEU:HD22	2:G:592:PHE:CE1	2.48	0.49
2:G:139:ASN:ND2	2:I:417:ASN:O	2.46	0.49
2:G:249:LEU:HD12	2:G:252:THR:CB	2.42	0.49
2:G:346:TYR:C	2:G:348:LEU:H	2.20	0.49
2:H:86:LEU:HD13	2:H:588:LEU:HD13	1.95	0.49
2:H:122:ASN:ND2	2:H:212:CYS:SG	2.75	0.49
2:H:154:ILE:HD11	2:H:256:PRO:C	2.38	0.49
2:H:171:ILE:HD12	2:H:175:LYS:HB3	1.93	0.49
2:H:175:LYS:O	2:H:175:LYS:CD	2.58	0.49
2:H:307:ASP:OD2	2:H:367:VAL:HA	2.12	0.49
2:H:399:THR:HG23	2:H:424:GLU:CD	2.38	0.49
2:H:400:ASP:HB2	2:H:402:TYR:OH	2.13	0.49
2:H:801:PHE:CD1	2:I:391:PHE:CE2	3.00	0.49
2:I:66:LEU:CD1	2:I:592:PHE:HE2	2.22	0.49
2:I:195:ALA:HB1	2:I:197:LYS:HG3	1.95	0.49
2:I:226:GLN:HB2	2:I:263:GLU:OE2	2.13	0.49
2:J:309:PHE:CE2	2:J:533:ILE:HD12	2.48	0.49
2:J:444:SER:O	2:J:448:SER:HB3	2.13	0.49
2:J:516:LEU:HA	2:J:519:ARG:HE	1.77	0.49
2:J:582:ARG:HB3	2:J:582:ARG:NH1	2.27	0.49
2:J:888:LEU:HD21	6:R:25:LEU:HD22	1.95	0.49
2:K:44:LYS:O	2:L:614:GLN:HB2	2.13	0.49
2:K:49:THR:HG23	2:K:49:THR:O	2.13	0.49
2:K:135:TRP:HB3	2:K:141:ILE:CG1	2.42	0.49
2:K:308:ASN:ND2	2:K:346:TYR:HE2	2.09	0.49
2:L:144:ARG:CB	2:L:144:ARG:NH2	2.76	0.49
2:L:780:ASN:HD22	2:L:832:LEU:HD12	1.76	0.49
3:M:226:VAL:HA	3:M:282:LEU:HD11	1.95	0.49
3:M:366:ASP:OD1	3:M:367:VAL:N	2.46	0.49
7:T:59:ALA:HB2	7:T:199:VAL:CG1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:22:GLY:O	7:U:23:ALA:CB	2.60	0.49
1:5:23:ASN:ND2	2:D:19:ASP:H	2.09	0.49
1:8:30:LEU:HD22	9:W:7:UNK:CB	2.42	0.49
2:A:4:PRO:CD	2:A:4:PRO:O	2.58	0.49
2:A:336:ASP:CB	2:A:539:PHE:HE2	2.25	0.49
2:A:513:ASN:OD1	2:A:516:LEU:HB2	2.13	0.49
2:A:719:LYS:HA	2:A:733:ASN:O	2.13	0.49
2:B:13:MET:HB3	2:C:898:VAL:HG23	1.94	0.49
2:B:94:LEU:O	2:B:546:LEU:HD12	2.12	0.49
2:B:134:GLU:CB	2:B:205:ASP:HA	2.41	0.49
2:B:137:ASP:HB3	2:B:139:ASN:CB	2.42	0.49
2:B:221:ASN:C	2:B:223:LYS:N	2.69	0.49
2:B:252:THR:O	2:B:255:GLU:N	2.46	0.49
2:B:484:PRO:O	2:B:488:ASP:HB2	2.13	0.49
2:B:663:SER:OG	2:B:669:ASP:HB2	2.13	0.49
2:B:674:TYR:CE2	2:B:676:GLY:HA3	2.48	0.49
2:B:681:LEU:O	2:B:681:LEU:CG	2.58	0.49
2:B:703:SER:O	2:B:706:GLY:N	2.46	0.49
2:B:718:ILE:HD11	2:B:738:TRP:CD2	2.48	0.49
2:B:847:PRO:HG2	2:B:847:PRO:O	2.12	0.49
2:C:442:TRP:O	2:C:445:PHE:N	2.40	0.49
2:C:562:VAL:CB	2:C:579:ALA:CB	2.91	0.49
2:C:702:VAL:HG12	2:C:703:SER:O	2.12	0.49
2:D:149:PHE:O	2:D:150:ILE:HB	2.13	0.49
2:D:516:LEU:HD21	2:D:569:SER:CB	2.43	0.49
2:D:728:ASN:HA	2:D:734:MET:O	2.13	0.49
2:D:878:PHE:HB2	2:D:889:LEU:HD21	1.94	0.49
2:E:202:VAL:O	2:F:815:TYR:OH	2.31	0.49
2:E:698:PHE:O	2:E:700:SER:N	2.45	0.49
2:E:701:SER:C	2:E:702:VAL:HG22	2.38	0.49
2:F:162:ILE:CD1	2:F:170:PRO:HB3	2.43	0.49
2:F:255:GLU:O	2:F:256:PRO:C	2.55	0.49
2:F:335:VAL:HG13	2:F:913:TYR:CD2	2.48	0.49
2:F:336:ASP:OD1	2:F:340:ARG:NH1	2.46	0.49
2:F:447:TYR:CE2	2:F:807:PRO:HG3	2.48	0.49
2:F:715:GLU:HB3	6:R:28:TRP:HE1	1.78	0.49
2:G:151:GLY:O	2:G:197:LYS:N	2.45	0.49
2:G:169:GLN:N	2:G:169:GLN:OE1	2.46	0.49
2:G:270:PRO:HG3	2:H:822:PRO:CG	2.43	0.49
2:G:493:ILE:HG12	2:I:116:TYR:HD2	1.69	0.49
2:H:101:PHE:CD2	2:H:558:PHE:HZ	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:119:THR:HA	2:H:271:ASP:OD2	2.13	0.49
2:H:294:GLN:O	2:H:295:ALA:HB2	2.12	0.49
2:H:621:CYS:SG	2:H:896:PHE:HA	2.53	0.49
2:H:837:PHE:O	2:H:837:PHE:CG	2.66	0.49
2:I:134:GLU:OE1	2:I:143:VAL:HA	2.13	0.49
2:J:96:MET:HB3	2:J:542:ILE:O	2.12	0.49
2:J:117:SER:CB	2:J:300:PRO:HB3	2.43	0.49
2:J:155:ASN:O	2:J:158:ASN:N	2.46	0.49
2:J:177:TYR:CD2	2:J:178:GLN:HG2	2.48	0.49
2:J:247:PHE:HB3	2:J:257:LYS:HD3	1.95	0.49
2:J:360:PHE:HD1	2:J:361:SER:N	2.11	0.49
2:J:386:LEU:HD12	2:L:443:ARG:NH2	2.28	0.49
2:J:744:LEU:HD11	2:J:751:TYR:CE1	2.48	0.49
2:J:858:LEU:O	2:J:858:LEU:HG	2.11	0.49
2:K:243:ASN:N	2:K:243:ASN:HD22	2.09	0.49
2:K:246:PHE:CA	2:K:259:VAL:HG22	2.42	0.49
2:K:310:ILE:O	2:K:310:ILE:HG22	2.13	0.49
2:L:249:LEU:HD23	2:L:250:PRO:N	2.27	0.49
2:L:385:GLU:C	2:L:386:LEU:HD12	2.37	0.49
2:L:528:TYR:O	2:L:530:PRO:HD3	2.12	0.49
2:L:688:ASN:O	2:L:688:ASN:OD1	2.31	0.49
2:L:762:ASP:C	2:L:763:ARG:HD2	2.37	0.49
3:M:51:ASN:HB2	3:M:63:ASP:HB3	1.94	0.49
3:M:288:TYR:CD1	3:M:289:GLU:HG3	2.47	0.49
5:O:147:SER:O	5:O:151:LEU:HB2	2.13	0.49
6:Q:16:VAL:O	6:Q:17:PHE:C	2.55	0.49
7:U:11:TRP:HZ3	7:U:22:GLY:O	1.95	0.49
1:8:35:PHE:CA	2:B:619:TYR:O	2.60	0.48
2:A:622:ALA:CB	2:A:895:VAL:HG22	2.43	0.48
2:A:820:PRO:O	2:C:121:TYR:HE1	1.96	0.48
2:A:905:HIS:CG	2:A:906:ARG:N	2.80	0.48
2:B:39:PHE:CE2	2:C:595:MET:CE	2.92	0.48
2:B:117:SER:HB2	2:B:511:HIS:HE1	1.70	0.48
2:B:160:ILE:HG22	2:B:161:GLN:N	2.26	0.48
2:B:274:LEU:HD11	2:B:293:GLN:HB3	1.95	0.48
2:B:344:LEU:CD2	2:B:620:LEU:HD23	2.42	0.48
2:B:518:TYR:CE2	2:B:522:LEU:HD22	2.48	0.48
2:B:525:ASN:O	2:C:824:ILE:HG22	2.12	0.48
2:B:613:ASP:OD1	2:B:613:ASP:N	2.45	0.48
2:B:681:LEU:O	2:B:681:LEU:CD1	2.61	0.48
2:C:148:PRO:O	2:C:148:PRO:CG	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:255:GLU:CB	2:C:256:PRO:CD	2.82	0.48
2:C:390:CYS:C	2:C:391:PHE:CD2	2.91	0.48
2:C:598:ASN:CB	7:T:91:LEU:HD12	2.43	0.48
2:D:192:VAL:HG22	2:D:257:LYS:HG3	1.95	0.48
2:D:386:LEU:HD22	2:F:443:ARG:HG2	1.93	0.48
2:E:390:CYS:HB2	2:E:433:MET:HB3	1.95	0.48
2:E:447:TYR:CD1	2:E:452:LEU:HB3	2.47	0.48
2:E:464:ASN:O	2:E:464:ASN:CG	2.55	0.48
2:E:527:ARG:HG3	2:E:527:ARG:NH1	2.26	0.48
2:E:678:VAL:HG21	2:E:681:LEU:CD2	2.43	0.48
2:F:135:TRP:CG	2:F:136:LYS:N	2.81	0.48
2:F:175:LYS:O	2:F:176:THR:C	2.55	0.48
2:F:205:ASP:O	2:F:205:ASP:CG	2.51	0.48
2:F:209:MET:SD	2:F:286:SER:HB2	2.52	0.48
2:F:310:ILE:HD12	2:F:681:LEU:CD1	2.43	0.48
2:F:592:PHE:O	2:F:594:PRO:HD3	2.13	0.48
2:F:744:LEU:O	2:F:744:LEU:HD12	2.13	0.48
2:F:906:ARG:HH11	2:F:906:ARG:HG2	1.78	0.48
2:G:62:GLN:O	2:G:63:ARG:C	2.54	0.48
2:G:250:PRO:CA	2:I:421:ARG:HH12	2.24	0.48
2:G:440:ASN:OD1	2:I:124:LEU:CD2	2.61	0.48
2:G:669:ASP:OD1	2:G:669:ASP:N	2.46	0.48
2:G:722:VAL:HG13	2:G:723:ASP:N	2.19	0.48
2:G:723:ASP:CG	2:G:724:GLY:N	2.70	0.48
2:G:797:ASN:OD1	2:G:817:ALA:HB2	2.14	0.48
2:G:851:ASN:CG	2:G:853:MET:HB2	2.38	0.48
2:H:302:TYR:HB3	2:H:520:SER:CB	2.42	0.48
2:H:396:SER:HB3	2:H:426:GLU:CG	2.29	0.48
2:H:527:ARG:HB3	2:H:528:TYR:CD2	2.48	0.48
2:I:165:ASP:OD1	2:I:166:THR:N	2.46	0.48
2:I:281:ALA:HB3	2:I:282:GLN:OE1	2.13	0.48
2:I:302:TYR:HE2	2:I:517:ARG:CG	2.26	0.48
2:I:516:LEU:HD13	2:I:519:ARG:NH2	2.28	0.48
2:J:44:LYS:O	2:J:45:PHE:CG	2.66	0.48
2:J:303:ILE:O	2:J:520:SER:OG	2.28	0.48
2:J:441:LEU:O	2:J:441:LEU:CD1	2.61	0.48
2:K:537:GLN:O	2:K:543:LYS:HB2	2.13	0.48
2:L:347:GLN:NE2	2:L:682:ASP:C	2.67	0.48
2:L:515:GLY:C	2:L:519:ARG:NH1	2.71	0.48
3:M:73:LYS:HE3	3:M:81:ASN:HB3	1.94	0.48
3:M:289:GLU:HA	3:M:292:ILE:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:115:SER:C	5:O:117:ASN:N	2.66	0.48
1:7:12:ARG:O	2:G:619:TYR:CE1	2.62	0.48
2:A:341:ASN:C	2:A:343:GLU:H	2.20	0.48
2:A:702:VAL:HG12	2:E:920:ALA:CA	2.35	0.48
2:B:133:CYS:O	2:B:143:VAL:HG23	2.13	0.48
2:B:207:THR:O	2:B:208:PRO:C	2.56	0.48
2:B:367:VAL:CG1	2:B:764:MET:CE	2.90	0.48
2:B:677:SER:O	2:B:678:VAL:C	2.56	0.48
2:B:797:ASN:HA	2:B:819:TYR:CE1	2.48	0.48
2:C:41:LEU:HD23	2:C:41:LEU:N	2.25	0.48
2:C:297:PRO:O	2:C:297:PRO:CG	2.61	0.48
2:C:335:VAL:HB	2:C:913:TYR:CE2	2.48	0.48
2:C:763:ARG:H	2:C:763:ARG:HG2	1.38	0.48
2:C:820:PRO:O	2:C:821:TYR:C	2.50	0.48
2:D:23:TYR:CD1	2:D:24:LEU:HD22	2.48	0.48
2:D:177:TYR:CD2	2:D:178:GLN:N	2.81	0.48
2:D:447:TYR:HE2	2:E:385:GLU:HB2	1.76	0.48
2:D:574:LEU:HB3	2:D:579:ALA:HB3	1.94	0.48
2:D:782:THR:HG22	2:D:782:THR:O	2.11	0.48
2:D:857:ALA:HB2	2:F:49:THR:HG23	1.95	0.48
2:E:176:THR:OG1	2:F:796:HIS:CE1	2.64	0.48
2:E:818:ASN:OD1	2:E:818:ASN:C	2.55	0.48
2:F:84:PHE:HZ	2:F:586:ILE:HG22	1.78	0.48
2:F:244:LEU:HD23	2:F:244:LEU:N	2.28	0.48
2:F:360:PHE:HD1	2:F:361:SER:H	1.59	0.48
2:F:395:GLY:O	2:F:396:SER:HB3	2.13	0.48
2:G:370:TYR:O	2:G:370:TYR:CD1	2.66	0.48
2:G:380:HIS:CG	2:I:517:ARG:NH1	2.81	0.48
2:G:437:LEU:C	2:G:439:ALA:H	2.21	0.48
2:G:620:LEU:HD21	2:G:892:LEU:HD11	1.95	0.48
2:H:7:MET:HB3	2:H:9:GLN:CD	2.37	0.48
2:H:46:ARG:CD	2:I:898:VAL:HG12	2.43	0.48
2:H:154:ILE:CD1	2:H:256:PRO:HB3	2.38	0.48
2:I:204:LYS:HG2	2:I:205:ASP:N	2.24	0.48
2:I:636:VAL:HG11	2:I:889:LEU:HD11	1.94	0.48
2:J:61:SER:HA	2:K:707:ASN:CB	2.42	0.48
2:J:61:SER:CB	2:K:707:ASN:HB3	2.43	0.48
2:J:106:VAL:HG22	2:J:107:LEU:H	1.77	0.48
2:J:115:PRO:HG2	2:K:494:GLY:HA3	1.94	0.48
2:J:211:PRO:O	2:J:211:PRO:CG	2.36	0.48
2:J:290:LEU:HB3	2:J:293:GLN:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:593:PHE:O	2:J:595:MET:N	2.44	0.48
2:J:702:VAL:O	2:J:703:SER:C	2.55	0.48
2:J:710:LEU:HD22	2:J:737:ASP:HB2	1.94	0.48
2:J:729:VAL:HG11	2:J:736:LYS:HA	1.94	0.48
2:J:813:GLN:NE2	2:L:147:ALA:CA	2.65	0.48
2:K:35:THR:HG22	2:K:39:PHE:HB3	1.95	0.48
2:K:70:PRO:HA	2:K:84:PHE:CD1	2.46	0.48
2:K:135:TRP:CB	2:K:141:ILE:CG1	2.91	0.48
2:K:339:ASP:OD1	2:K:339:ASP:O	2.32	0.48
2:K:412:TRP:O	2:K:413:THR:CG2	2.60	0.48
2:K:447:TYR:HE1	2:K:452:LEU:HD21	1.79	0.48
2:K:535:VAL:O	2:K:535:VAL:HG23	2.14	0.48
2:K:813:GLN:CG	2:K:814:ALA:N	2.72	0.48
2:L:643:ARG:O	2:L:872:HIS:N	2.25	0.48
2:L:869:ASN:HD21	7:U:21:ALA:HB2	1.79	0.48
3:M:120:ASP:CG	3:M:465:THR:HG22	2.27	0.48
3:M:274:LEU:HD13	3:M:342:SER:C	2.37	0.48
5:O:94:ILE:HD13	5:O:102:ILE:HG12	1.95	0.48
5:O:178:LEU:HD23	5:O:178:LEU:C	2.38	0.48
5:O:217:GLN:HA	5:O:220:TRP:HD1	1.78	0.48
6:P:19:PRO:O	6:P:20:TYR:CG	2.65	0.48
1:5:19:MET:HB3	2:F:34:ALA:O	2.13	0.48
2:A:548:LEU:HD13	2:A:604:GLU:OE1	2.13	0.48
2:A:704:TRP:CD1	2:A:705:PRO:CG	2.92	0.48
2:A:709:ARG:CZ	2:A:709:ARG:HB3	2.43	0.48
2:A:741:ILE:HD13	2:A:852:PHE:CD2	2.48	0.48
2:B:46:ARG:HG3	2:C:615:SER:O	2.13	0.48
2:B:211:PRO:O	2:B:211:PRO:HG2	2.11	0.48
2:B:544:ASN:HB2	2:B:616:PHE:CE2	2.48	0.48
2:B:900:ARG:HB3	2:B:912:VAL:HG22	1.94	0.48
2:B:912:VAL:O	2:B:912:VAL:CG2	2.40	0.48
2:C:69:VAL:HG23	2:E:72:ASP:OD1	2.13	0.48
2:C:90:ASP:HA	2:C:549:PRO:HB3	1.95	0.48
2:C:178:GLN:CA	2:C:178:GLN:NE2	2.75	0.48
2:C:600:ALA:HB3	2:C:601:SER:H	1.50	0.48
2:C:715:GLU:O	2:C:715:GLU:HG3	2.14	0.48
2:D:202:VAL:HG22	2:D:262:ALA:HB2	1.94	0.48
2:D:376:ILE:HG12	2:D:774:MET:HE1	1.93	0.48
2:D:406:LYS:N	2:D:411:THR:H	2.10	0.48
2:D:463:ASP:OD1	2:D:464:ASN:OD1	2.31	0.48
2:D:620:LEU:HD21	2:D:892:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:643:ARG:O	2:D:871:ALA:HA	2.13	0.48
2:D:739:PHE:CE2	2:D:743:MET:CE	2.96	0.48
2:D:895:VAL:HG12	2:D:917:PRO:CG	2.44	0.48
2:E:88:VAL:HG13	2:E:549:PRO:HA	1.95	0.48
2:E:101:PHE:HB2	2:E:535:VAL:HG22	1.94	0.48
2:E:113:PHE:CE1	2:E:115:PRO:CD	2.97	0.48
2:E:139:ASN:O	2:E:141:ILE:HG22	2.13	0.48
2:E:242:VAL:CG1	2:E:243:ASN:N	2.75	0.48
2:E:307:ASP:OD1	2:E:356:ARG:NH2	2.47	0.48
2:E:497:TRP:CZ3	2:E:774:MET:HG3	2.48	0.48
2:F:209:MET:HE1	2:F:291:LEU:HD22	1.94	0.48
2:F:345:SER:HB2	2:F:618:ASP:CG	2.36	0.48
2:F:356:ARG:HB3	2:F:367:VAL:CG1	2.41	0.48
2:G:589:TYR:CD2	2:H:736:LYS:NZ	2.81	0.48
2:G:626:LEU:HD11	2:G:680:TYR:CE2	2.48	0.48
2:G:629:ILE:HG23	2:G:633:ALA:HB3	1.95	0.48
2:H:351:ASP:OD1	2:H:764:MET:HB3	2.14	0.48
2:H:876:MET:CE	2:H:878:PHE:CE1	2.91	0.48
2:I:135:TRP:HH2	2:I:291:LEU:CG	2.26	0.48
2:I:188:TRP:O	2:I:188:TRP:CD2	2.66	0.48
2:I:195:ALA:HB1	2:I:197:LYS:CD	2.43	0.48
2:I:402:TYR:HD2	2:I:425:ILE:HB	1.78	0.48
2:I:739:PHE:CZ	2:I:743:MET:HE3	2.48	0.48
2:I:777:GLN:OE1	2:I:777:GLN:HA	2.14	0.48
2:J:433:MET:SD	2:K:433:MET:CB	3.01	0.48
2:J:467:LEU:CD2	2:J:479:GLY:HA3	2.41	0.48
2:J:516:LEU:CA	2:J:519:ARG:HH21	2.20	0.48
2:J:576:VAL:HG12	2:J:576:VAL:O	2.11	0.48
2:K:307:ASP:O	2:K:309:PHE:N	2.45	0.48
2:K:545:LEU:HD12	2:K:901:ILE:HD13	1.95	0.48
2:K:593:PHE:CD1	2:L:751:TYR:HD2	2.30	0.48
2:K:593:PHE:HE2	2:K:595:MET:HG3	1.78	0.48
2:L:59:ASP:O	2:L:59:ASP:OD1	2.31	0.48
2:L:323:VAL:HG12	2:L:555:GLU:HG2	1.94	0.48
2:L:336:ASP:OD1	2:L:539:PHE:HE2	1.96	0.48
2:L:504:ASN:OD1	2:L:883:MET:HE1	2.12	0.48
2:L:512:ARG:CA	2:L:517:ARG:HH21	2.24	0.48
2:L:622:ALA:CB	2:L:892:LEU:HD21	2.44	0.48
2:L:815:TYR:CD2	2:L:816:PRO:HD2	2.48	0.48
4:N:171:PRO:O	4:N:173:MET:N	2.46	0.48
5:O:215:ASN:O	5:O:215:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:265:LEU:O	5:O:266:ILE:C	2.55	0.48
6:P:17:PHE:CG	6:P:18:SER:N	2.67	0.48
6:P:50:SER:O	6:P:51:ALA:HB3	2.14	0.48
6:R:31:VAL:O	6:R:31:VAL:HG22	2.13	0.48
6:S:20:TYR:O	6:S:21:LEU:C	2.57	0.48
6:S:45:VAL:O	6:S:45:VAL:HG13	2.14	0.48
1:1:9:LEU:HD11	1:1:17:PRO:CB	2.35	0.48
2:A:259:VAL:O	2:A:260:LEU:HD23	2.13	0.48
2:A:799:SER:HB2	2:C:181:PRO:HD3	1.96	0.48
2:A:866:LEU:HD11	2:C:7:MET:HE3	1.94	0.48
2:B:204:LYS:CG	2:B:204:LYS:O	2.57	0.48
2:B:500:ASP:N	2:B:501:PRO:HD2	2.29	0.48
2:C:72:ASP:HB2	2:C:83:ARG:NH1	2.28	0.48
2:C:277:LYS:NZ	2:C:277:LYS:CB	2.75	0.48
2:C:348:LEU:C	2:C:350:LEU:N	2.72	0.48
2:C:738:TRP:O	2:C:739:PHE:C	2.53	0.48
2:C:802:VAL:HG13	2:C:803:GLY:N	2.27	0.48
2:C:899:VAL:HG21	2:C:913:TYR:HE1	1.79	0.48
2:D:100:TYR:CD2	2:D:589:TYR:HB2	2.48	0.48
2:D:362:MET:HE2	2:E:754:PHE:HD2	1.78	0.48
2:F:62:GLN:HG3	2:F:63:ARG:N	2.28	0.48
2:F:467:LEU:HD11	2:F:479:GLY:CA	2.24	0.48
2:F:827:THR:O	2:F:827:THR:OG1	2.22	0.48
2:F:895:VAL:HG12	2:F:917:PRO:CG	2.42	0.48
2:F:915:ARG:O	2:F:919:SER:HB3	2.14	0.48
2:G:24:LEU:HD12	2:G:28:LEU:HD23	1.94	0.48
2:G:285:ILE:HG23	2:G:286:SER:HB3	1.95	0.48
2:G:483:VAL:HG12	2:G:805:MET:HB2	1.95	0.48
2:G:524:GLY:HA3	2:H:777:GLN:NE2	2.28	0.48
2:G:727:TYR:O	2:G:729:VAL:N	2.46	0.48
2:G:777:GLN:HB2	2:I:526:GLY:H	1.78	0.48
2:G:811:GLU:OE2	2:I:184:GLY:CA	2.61	0.48
2:G:900:ARG:HH12	2:I:14:HIS:HE1	1.61	0.48
2:I:149:PHE:HZ	2:I:162:ILE:CG1	2.27	0.48
2:I:729:VAL:CA	2:I:736:LYS:HG2	2.43	0.48
2:I:844:TRP:HA	2:I:844:TRP:CE3	2.49	0.48
2:I:909:ILE:O	2:I:909:ILE:HG23	2.13	0.48
2:I:912:VAL:HG13	2:I:912:VAL:O	2.13	0.48
2:J:90:ASP:CG	2:J:906:ARG:HH21	2.22	0.48
2:J:170:PRO:HB2	2:J:171:ILE:H	1.31	0.48
2:J:347:GLN:HE22	2:J:356:ARG:CZ	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:409:GLY:H	2:J:411:THR:CG2	2.25	0.48
2:J:593:PHE:HA	2:K:751:TYR:CD2	2.48	0.48
2:J:681:LEU:H	2:J:681:LEU:HD23	1.78	0.48
2:J:719:LYS:O	2:J:720:ARG:HD2	2.12	0.48
2:J:850:SER:N	2:J:861:LEU:HD13	2.27	0.48
2:K:114:LYS:HE2	2:K:299:ARG:O	2.14	0.48
2:K:547:LEU:HD12	2:K:548:LEU:N	2.28	0.48
2:K:655:ARG:HH12	2:K:880:VAL:CG2	2.26	0.48
2:K:771:PHE:HA	2:K:838:LEU:O	2.13	0.48
2:L:435:ILE:HG22	2:L:437:LEU:N	2.28	0.48
2:L:649:ARG:HD3	2:L:895:VAL:O	2.14	0.48
2:A:53:THR:HG21	5:O:58:GLN:HB3	1.95	0.48
2:A:437:LEU:HG	2:C:437:LEU:CD2	2.44	0.48
2:A:640:ILE:HG12	2:A:874:LEU:HD11	1.95	0.48
2:A:709:ARG:CB	2:A:709:ARG:HH11	2.18	0.48
2:A:848:PHE:O	2:A:848:PHE:CD1	2.67	0.48
2:B:114:LYS:NZ	2:B:298:ASN:H	2.09	0.48
2:B:309:PHE:CE2	2:B:364:ASN:HB2	2.49	0.48
2:B:573:ASP:HB3	2:B:576:VAL:CG2	2.42	0.48
2:B:749:ILE:O	2:B:749:ILE:CG1	2.58	0.48
2:C:197:LYS:HZ1	2:C:256:PRO:CB	2.23	0.48
2:C:221:ASN:HB2	2:C:225:GLY:H	1.78	0.48
2:C:350:LEU:O	2:C:356:ARG:NH2	2.45	0.48
2:C:366:ALA:O	2:C:367:VAL:HB	2.13	0.48
2:C:440:ASN:C	2:C:442:TRP:N	2.71	0.48
2:C:454:LEU:HB2	2:C:455:PRO:HD2	1.84	0.48
2:C:643:ARG:HH21	2:C:918:PHE:H	1.60	0.48
2:D:80:TYR:OH	2:D:583:PHE:CD2	2.65	0.48
2:D:135:TRP:CH2	2:D:286:SER:CB	2.96	0.48
2:D:359:TYR:CE2	2:D:515:GLY:HA2	2.42	0.48
2:D:390:CYS:O	2:D:390:CYS:SG	2.71	0.48
2:D:502:MET:O	2:D:502:MET:CG	2.61	0.48
2:D:848:PHE:CD2	2:D:848:PHE:O	2.66	0.48
2:E:89:GLY:O	2:E:549:PRO:HB3	2.14	0.48
2:E:678:VAL:CG2	2:E:681:LEU:HD23	2.44	0.48
2:E:710:LEU:HD12	2:E:711:LEU:N	2.29	0.48
2:F:313:MET:HE1	2:F:537:GLN:OE1	2.14	0.48
2:G:13:MET:HG3	2:H:914:LEU:CD1	2.43	0.48
2:G:127:LYS:HG3	2:G:213:TYR:CE2	2.48	0.48
2:G:282:GLN:OE1	2:G:282:GLN:O	2.31	0.48
2:G:302:TYR:HE2	2:G:517:ARG:HA	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:548:LEU:HD23	2:G:903:GLN:OE1	2.12	0.48
2:G:815:TYR:OH	2:I:202:VAL:N	2.46	0.48
2:H:270:PRO:O	2:H:271:ASP:HB3	2.13	0.48
2:H:795:GLN:O	2:H:796:HIS:HB2	2.14	0.48
2:H:810:ARG:NH2	2:I:430:ILE:O	2.46	0.48
2:I:426:GLU:N	2:I:426:GLU:OE2	2.41	0.48
2:I:774:MET:O	2:I:775:SER:OG	2.28	0.48
2:I:822:PRO:O	2:I:829:VAL:HG22	2.14	0.48
2:J:41:LEU:HD21	2:K:546:LEU:HD13	1.94	0.48
2:J:244:LEU:N	2:J:244:LEU:CD1	2.76	0.48
2:J:447:TYR:CG	2:K:386:LEU:HD11	2.49	0.48
2:J:477:MET:HE1	2:J:570:LEU:HG	1.92	0.48
2:J:539:PHE:O	2:J:543:LYS:HB3	2.14	0.48
2:J:701:SER:C	2:J:702:VAL:HG22	2.37	0.48
2:J:734:MET:HE2	2:J:739:PHE:N	2.27	0.48
2:J:813:GLN:HE22	2:L:146:GLN:C	2.22	0.48
2:K:137:ASP:C	2:K:139:ASN:N	2.70	0.48
2:K:356:ARG:NH1	2:K:367:VAL:HG23	2.28	0.48
2:K:540:PHE:CE2	2:K:617:ASN:HA	2.48	0.48
2:L:315:TYR:CE2	2:L:538:LYS:HG3	2.48	0.48
2:L:454:LEU:O	2:L:459:LYS:HE3	2.13	0.48
2:L:762:ASP:O	2:L:763:ARG:HD2	2.14	0.48
5:O:39:MET:SD	5:O:42:ILE:HD11	2.52	0.48
7:U:90:LEU:O	7:U:90:LEU:HG	2.12	0.48
1:8:16:ARG:HD3	1:8:18:PHE:HB2	1.95	0.48
2:A:49:THR:O	2:A:49:THR:OG1	2.31	0.48
2:A:107:LEU:O	2:A:529:VAL:HG12	2.14	0.48
2:A:562:VAL:HG13	2:A:566:LEU:HD22	1.96	0.48
2:A:735:THR:HG22	2:A:737:ASP:N	2.26	0.48
2:A:851:ASN:O	2:A:851:ASN:OD1	2.31	0.48
2:B:67:ARG:HH11	2:B:67:ARG:HG3	1.77	0.48
2:B:106:VAL:O	2:B:582:ARG:HG2	2.14	0.48
2:B:180:GLU:O	2:B:180:GLU:CG	2.61	0.48
2:B:203:LEU:HD11	2:B:265:VAL:HG12	1.93	0.48
2:B:272:THR:HG23	2:B:272:THR:O	2.14	0.48
2:B:779:VAL:CG2	2:B:829:VAL:HG12	2.42	0.48
2:B:864:ASN:O	2:B:866:LEU:N	2.40	0.48
2:C:154:ILE:HG13	2:C:159:GLY:HA2	1.95	0.48
2:C:506:ASN:OD1	2:C:508:PHE:HB2	2.13	0.48
2:C:693:LYS:HD2	2:C:715:GLU:CD	2.39	0.48
2:C:704:TRP:CZ3	2:C:861:LEU:HD21	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:729:VAL:O	2:C:729:VAL:CG2	2.42	0.48
2:C:881:ASP:N	2:C:881:ASP:OD1	2.45	0.48
2:D:18:GLN:OE1	2:D:22:GLU:HG2	2.13	0.48
2:D:82:VAL:O	2:D:82:VAL:HG23	2.11	0.48
2:D:545:LEU:HD12	2:D:546:LEU:N	2.29	0.48
2:D:595:MET:HG2	2:D:600:ALA:HB2	1.96	0.48
2:D:626:LEU:HD13	2:D:888:LEU:CD1	2.43	0.48
2:D:729:VAL:CG2	2:D:730:ALA:N	2.75	0.48
2:D:769:ARG:O	2:D:769:ARG:NH1	2.46	0.48
2:D:771:PHE:HD1	2:D:773:PRO:HD3	1.79	0.48
2:D:780:ASN:OD1	2:D:783:THR:N	2.46	0.48
2:D:877:THR:O	2:D:877:THR:HG23	2.14	0.48
2:E:96:MET:HE3	2:E:99:THR:CB	2.44	0.48
2:E:188:TRP:N	2:E:191:GLU:N	2.60	0.48
2:E:603:LEU:CD2	2:E:607:LEU:HD12	2.43	0.48
2:E:748:ASN:HD21	2:E:853:MET:HE2	1.78	0.48
2:E:799:SER:HB2	2:E:814:ALA:HA	1.95	0.48
2:E:846:ILE:HG23	2:E:846:ILE:O	2.14	0.48
2:E:914:LEU:CD1	2:E:915:ARG:N	2.67	0.48
2:F:7:MET:HB3	2:F:8:PRO:HD3	1.94	0.48
2:F:341:ASN:HD21	2:F:344:LEU:HB2	1.78	0.48
2:F:786:GLU:C	2:F:788:GLN:H	2.22	0.48
2:G:349:MET:C	2:G:351:ASP:N	2.63	0.48
2:G:447:TYR:CE2	2:G:807:PRO:HB3	2.40	0.48
2:G:568:SER:OG	2:G:571:GLY:N	2.46	0.48
2:G:588:LEU:HD23	2:G:588:LEU:C	2.39	0.48
2:G:737:ASP:O	2:G:741:ILE:N	2.47	0.48
2:G:904:PRO:CD	2:G:908:VAL:HG13	2.27	0.48
2:H:45:PHE:CD1	2:I:614:GLN:HA	2.48	0.48
2:H:153:ASN:OD1	2:H:153:ASN:O	2.32	0.48
2:H:301:ASN:HA	2:H:569:SER:HB3	1.94	0.48
2:H:798:ASN:O	2:H:798:ASN:OD1	2.31	0.48
2:I:119:THR:HG23	2:I:271:ASP:OD2	2.14	0.48
2:I:809:MET:HE2	2:I:810:ARG:HH12	1.78	0.48
2:J:19:ASP:O	2:J:23:TYR:HD2	1.95	0.48
2:J:276:TYR:OH	2:L:186:THR:HG22	2.14	0.48
2:J:360:PHE:HE2	2:K:755:TYR:O	1.97	0.48
2:J:557:ASN:C	2:J:558:PHE:HD1	2.22	0.48
2:J:725:GLU:CD	2:L:67:ARG:HH12	2.21	0.48
2:J:751:TYR:HE2	2:L:594:PRO:HD3	1.77	0.48
2:K:469:GLU:OE1	2:K:469:GLU:HA	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:694:VAL:HG13	2:K:716:PHE:CD2	2.46	0.48
2:L:310:ILE:CD1	2:L:347:GLN:OE1	2.62	0.48
2:L:636:VAL:O	2:L:636:VAL:HG13	2.12	0.48
2:L:710:LEU:HD12	2:L:737:ASP:CB	2.18	0.48
2:L:740:LEU:O	2:L:744:LEU:HB3	2.13	0.48
2:L:893:PHE:HD2	2:L:918:PHE:CZ	2.31	0.48
3:M:67:VAL:HG11	3:M:381:MET:CE	2.32	0.48
3:M:223:MET:HG2	3:M:283:LEU:CD2	2.41	0.48
3:M:322:ASP:HB3	3:M:326:ARG:HB2	1.95	0.48
3:M:407:VAL:O	3:M:407:VAL:CG2	2.62	0.48
4:N:181:GLN:C	4:N:183:LEU:H	2.20	0.48
1:2:16:ARG:HG3	1:2:18:PHE:HE1	1.77	0.48
2:A:824:ILE:HD13	2:C:116:TYR:CE2	2.49	0.48
2:B:151:GLY:HA3	2:B:196:GLN:O	2.13	0.48
2:B:181:PRO:O	2:B:183:VAL:N	2.46	0.48
2:B:306:ARG:HG3	2:B:565:ILE:O	2.14	0.48
2:B:312:LEU:O	2:B:313:MET:CB	2.60	0.48
2:B:529:VAL:CG2	2:C:777:GLN:NE2	2.76	0.48
2:B:643:ARG:HG2	2:B:643:ARG:HH11	1.79	0.48
2:C:454:LEU:CG	2:C:455:PRO:HD3	2.41	0.48
2:C:472:ASN:O	2:C:572:ASN:HA	2.13	0.48
2:C:490:TYR:C	2:C:819:TYR:CE1	2.91	0.48
2:C:598:ASN:HB3	7:T:91:LEU:HD12	1.95	0.48
2:C:705:PRO:CD	2:C:706:GLY:H	2.26	0.48
2:D:107:LEU:HD12	2:D:305:PHE:CE1	2.48	0.48
2:D:114:LYS:HG3	2:D:116:TYR:CE1	2.48	0.48
2:D:292:THR:HG23	2:F:188:TRP:CE3	2.48	0.48
2:D:798:ASN:HA	2:F:122:ASN:OD1	2.13	0.48
2:E:46:ARG:NH1	2:F:617:ASN:HB3	2.29	0.48
2:E:62:GLN:HG3	2:E:92:ARG:HD2	1.94	0.48
2:E:704:TRP:O	2:E:704:TRP:CE3	2.67	0.48
2:F:177:TYR:O	2:F:178:GLN:C	2.57	0.48
2:F:687:LEU:HD11	2:F:883:MET:HE1	1.96	0.48
2:F:906:ARG:HG2	2:F:906:ARG:NH1	2.28	0.48
2:G:171:ILE:HG22	2:G:172:TYR:N	2.29	0.48
2:G:247:PHE:CD2	2:G:260:LEU:HD12	2.48	0.48
2:G:254:ASN:HB3	2:I:413:THR:CG2	2.44	0.48
2:G:323:VAL:O	2:G:324:LEU:HB2	2.13	0.48
2:G:384:ASP:OD2	2:I:127:LYS:NZ	2.44	0.48
2:G:462:PRO:HG2	2:G:465:ILE:CD1	2.37	0.48
2:G:707:ASN:HB3	2:I:61:SER:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:837:PHE:O	2:G:837:PHE:CG	2.67	0.48
2:H:108:ASP:OD1	2:H:527:ARG:NH1	2.46	0.48
2:H:127:LYS:CE	2:H:213:TYR:CE2	2.96	0.48
2:H:246:PHE:CE2	2:H:256:PRO:HG3	2.43	0.48
2:H:497:TRP:CD1	2:H:836:LYS:NZ	2.82	0.48
2:H:573:ASP:CG	2:H:576:VAL:HG23	2.38	0.48
2:I:388:ASN:O	2:I:434:GLU:HA	2.14	0.48
2:I:411:THR:O	2:I:413:THR:OG1	2.31	0.48
2:J:321:MET:CE	2:J:336:ASP:HB2	2.44	0.48
2:J:522:LEU:HD21	2:K:731:GLN:HB2	1.95	0.48
2:J:527:ARG:HG3	2:K:824:ILE:HA	1.95	0.48
2:K:211:PRO:CB	2:K:295:ALA:HB2	2.44	0.48
2:K:402:TYR:HB3	2:L:248:ALA:C	2.38	0.48
2:K:638:ILE:HG12	2:K:876:MET:HB2	1.95	0.48
2:K:649:ARG:HG3	2:K:894:GLU:HB3	1.94	0.48
2:K:709:ARG:O	2:K:710:LEU:CD2	2.62	0.48
2:K:729:VAL:HG22	2:K:734:MET:O	2.14	0.48
2:K:861:LEU:HG	2:K:867:TYR:HE2	1.77	0.48
2:K:889:LEU:HD12	2:K:890:TYR:N	2.25	0.48
6:P:28:TRP:NE1	6:P:31:VAL:HB	2.29	0.48
6:S:41:ASP:OD1	6:S:42:GLY:N	2.47	0.48
1:5:26:GLY:C	1:5:28:SER:H	2.21	0.48
2:A:121:TYR:OH	2:B:822:PRO:HA	2.14	0.48
2:A:378:GLU:HB2	2:A:380:HIS:NE2	2.28	0.48
2:A:437:LEU:O	2:A:437:LEU:CG	2.55	0.48
2:A:577:ASP:OD1	2:A:577:ASP:N	2.43	0.48
2:A:697:MET:SD	2:A:697:MET:C	2.97	0.48
2:A:711:LEU:HD21	2:A:727:TYR:CZ	2.49	0.48
2:B:320:ASN:HA	2:B:557:ASN:ND2	2.28	0.48
2:B:467:LEU:HB3	2:B:476:TYR:CD1	2.49	0.48
2:B:473:THR:O	2:B:473:THR:OG1	2.09	0.48
2:B:529:VAL:HG23	2:C:777:GLN:NE2	2.29	0.48
2:B:763:ARG:N	2:B:766:SER:OG	2.40	0.48
2:C:163:GLY:N	2:C:168:ASN:HB3	2.28	0.48
2:C:307:ASP:H	2:C:519:ARG:NH1	2.11	0.48
2:C:432:ALA:C	2:C:433:MET:CG	2.82	0.48
2:C:548:LEU:HG	2:C:604:GLU:HG2	1.96	0.48
2:C:756:VAL:O	2:C:756:VAL:HG12	2.14	0.48
2:C:767:PHE:CD1	2:C:767:PHE:C	2.92	0.48
2:C:769:ARG:HG2	2:C:769:ARG:O	2.14	0.48
2:D:35:THR:HG22	2:D:38:TYR:OH	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:143:VAL:HG22	2:D:144:ARG:H	1.78	0.48
2:D:554:TYR:CZ	2:D:556:TRP:HZ3	2.31	0.48
2:E:119:THR:HB	2:E:213:TYR:CE1	2.48	0.48
2:E:226:GLN:OE1	2:E:226:GLN:N	2.41	0.48
2:E:525:ASN:HD22	2:F:495:ALA:CB	2.24	0.48
2:E:739:PHE:O	2:E:742:GLN:N	2.44	0.48
2:E:747:TYR:OH	2:E:767:PHE:N	2.46	0.48
2:E:811:GLU:CG	2:E:811:GLU:O	2.60	0.48
2:F:7:MET:O	2:F:10:TRP:HB2	2.14	0.48
2:F:321:MET:HE1	2:H:708:ASP:OD2	2.14	0.48
2:G:85:THR:O	2:G:85:THR:CG2	2.60	0.48
2:G:120:ALA:C	2:G:121:TYR:HD1	2.21	0.48
2:G:140:LYS:HZ1	2:I:420:ASP:N	2.12	0.48
2:G:352:ALA:O	2:G:353:LEU:CD2	2.62	0.48
2:G:522:LEU:O	2:G:523:LEU:HD23	2.14	0.48
2:G:711:LEU:O	2:G:711:LEU:HD12	2.13	0.48
2:G:779:VAL:HG23	2:G:787:TYR:CE2	2.49	0.48
2:G:779:VAL:CG1	2:G:829:VAL:HG21	2.42	0.48
2:H:182:GLN:HB3	2:I:811:GLU:HB3	1.95	0.48
2:H:453:TYR:HB2	2:H:502:MET:CE	2.43	0.48
2:H:509:ASN:HD21	2:H:676:GLY:HA3	1.74	0.48
2:H:565:ILE:CG1	2:H:566:LEU:HD12	2.34	0.48
2:H:630:PRO:HB3	6:R:12:PHE:CD1	2.49	0.48
2:I:143:VAL:HG13	2:I:144:ARG:HG2	1.96	0.48
2:I:337:LEU:HG	2:I:340:ARG:NH2	2.26	0.48
2:I:448:SER:OG	2:I:449:ASN:N	2.44	0.48
2:I:639:SER:C	2:I:640:ILE:HD13	2.39	0.48
2:I:668:PHE:O	2:I:670:PRO:HD3	2.14	0.48
2:J:48:PRO:O	2:J:48:PRO:CG	2.51	0.48
2:J:284:THR:CG2	2:J:287:SER:HB3	2.44	0.48
2:J:545:LEU:HG	2:J:547:LEU:HD12	1.94	0.48
2:K:316:ASN:HA	2:K:336:ASP:OD1	2.13	0.48
2:K:435:ILE:HG22	2:K:436:ASN:N	2.29	0.48
2:K:627:TYR:CD2	2:K:638:ILE:HG21	2.48	0.48
2:K:692:LYS:NZ	2:K:692:LYS:HB3	2.29	0.48
2:L:81:LYS:CD	2:L:557:ASN:HD21	2.18	0.48
2:L:86:LEU:HB3	2:L:552:TYR:HB2	1.94	0.48
2:L:94:LEU:CD1	2:L:592:PHE:HE1	2.26	0.48
2:L:127:LYS:NZ	2:L:213:TYR:CZ	2.82	0.48
2:L:288:ALA:C	2:L:291:LEU:HD22	2.39	0.48
2:L:368:ASP:OD1	2:L:519:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:613:ASP:OD1	2:L:900:ARG:NH1	2.47	0.48
3:M:143:ALA:HB3	3:M:164:PHE:HE2	1.78	0.48
3:M:177:ILE:HD13	3:M:234:PRO:HB3	1.90	0.48
3:M:421:GLN:HG2	3:M:444:ARG:HH11	1.78	0.48
5:O:58:GLN:HA	5:O:61:ARG:HH11	1.79	0.48
6:S:12:PHE:CB	6:S:17:PHE:HE1	2.26	0.48
6:S:18:SER:N	6:S:19:PRO:CD	2.76	0.48
7:U:10:MET:N	7:U:24:SER:O	2.39	0.48
2:A:273:HIS:N	2:A:298:ASN:OD1	2.47	0.48
2:A:738:TRP:O	2:A:742:GLN:HG2	2.14	0.48
2:A:742:GLN:NE2	2:A:844:TRP:HE3	2.10	0.48
2:A:816:PRO:CG	2:C:203:LEU:HD21	2.36	0.48
2:A:884:ASP:O	2:A:884:ASP:CG	2.57	0.48
2:B:192:VAL:HG13	2:B:193:GLY:H	1.79	0.48
2:B:246:PHE:CD1	2:B:246:PHE:C	2.91	0.48
2:B:483:VAL:C	2:B:485:SER:H	2.21	0.48
2:B:563:ASN:HD21	2:B:575:ARG:H	1.61	0.48
2:B:662:PRO:HB3	2:B:678:VAL:HG11	1.96	0.48
2:B:694:VAL:HG23	2:B:878:PHE:CD1	2.49	0.48
2:C:29:VAL:CG1	2:C:30:GLN:N	2.75	0.48
2:C:94:LEU:HD12	2:C:592:PHE:CZ	2.48	0.48
2:C:376:ILE:HG23	2:C:774:MET:CE	2.32	0.48
2:C:382:VAL:CG2	2:C:439:ALA:HA	2.44	0.48
2:C:606:MET:HE3	2:C:606:MET:HB3	1.63	0.48
2:C:649:ARG:HA	2:C:859:THR:CG2	2.44	0.48
2:C:655:ARG:NH2	2:C:883:MET:HB3	2.28	0.48
2:C:780:ASN:OD1	2:C:832:LEU:HB2	2.14	0.48
2:D:35:THR:HG22	2:D:38:TYR:CZ	2.49	0.48
2:D:226:GLN:HA	2:D:226:GLN:OE1	2.13	0.48
2:D:447:TYR:CZ	2:E:386:LEU:CD2	2.95	0.48
2:D:767:PHE:CE1	2:D:771:PHE:HD2	2.32	0.48
2:E:81:LYS:HG3	2:E:557:ASN:HD21	1.76	0.48
2:E:153:ASN:O	2:E:161:GLN:HB2	2.13	0.48
2:E:173:ALA:HB1	2:E:221:ASN:OD1	2.14	0.48
2:E:294:GLN:CD	2:E:808:THR:HA	2.38	0.48
2:E:335:VAL:HB	2:E:913:TYR:CD2	2.48	0.48
2:E:358:ARG:HG2	2:E:358:ARG:NH1	2.25	0.48
2:E:374:VAL:HG21	2:E:510:HIS:CE1	2.49	0.48
2:E:395:GLY:CA	2:F:129:ALA:HB1	2.43	0.48
2:E:516:LEU:HA	2:E:519:ARG:HH21	1.78	0.48
2:F:101:PHE:N	2:F:101:PHE:CD1	2.80	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:109:ARG:CZ	2:F:113:PHE:CZ	2.97	0.48
2:F:217:ALA:HB1	2:F:226:GLN:HG2	1.96	0.48
2:F:226:GLN:O	2:F:227:ALA:HB2	2.14	0.48
2:F:378:GLU:O	2:F:380:HIS:N	2.45	0.48
2:F:475:ALA:HA	2:F:478:ASN:ND2	2.29	0.48
2:F:655:ARG:NH2	2:F:883:MET:HB3	2.27	0.48
2:F:663:SER:O	2:F:665:GLY:N	2.46	0.48
2:F:727:TYR:HB3	2:F:735:THR:HG22	1.96	0.48
2:F:825:GLY:C	2:F:827:THR:N	2.71	0.48
2:F:922:ASN:O	2:F:923:ALA:HB2	2.14	0.48
2:G:142:LYS:C	2:G:142:LYS:CE	2.87	0.48
2:G:447:TYR:CA	2:G:451:ALA:HB3	2.22	0.48
2:G:614:GLN:HE22	2:G:903:GLN:HE22	1.57	0.48
2:G:663:SER:OG	2:G:669:ASP:HB2	2.14	0.48
2:G:739:PHE:HE2	2:G:771:PHE:CE2	2.31	0.48
2:H:82:VAL:O	2:H:555:GLU:HB2	2.13	0.48
2:H:618:ASP:O	2:H:621:CYS:HB2	2.14	0.48
2:H:905:HIS:H	2:H:908:VAL:CG1	2.27	0.48
2:I:152:THR:HG22	2:I:197:LYS:CE	2.42	0.48
2:I:746:HIS:NE2	2:I:845:ARG:HG3	2.26	0.48
2:J:107:LEU:HD11	2:J:566:LEU:HD21	1.96	0.48
2:J:400:ASP:OD1	2:J:400:ASP:O	2.31	0.48
2:J:525:ASN:N	2:K:495:ALA:HB2	2.29	0.48
2:K:124:LEU:HB2	2:L:798:ASN:HD22	1.78	0.48
2:K:270:PRO:O	2:K:271:ASP:CB	2.61	0.48
2:K:861:LEU:HG	2:K:867:TYR:CE2	2.49	0.48
2:L:149:PHE:HB2	2:L:177:TYR:CE2	2.49	0.48
2:L:486:ALA:O	2:L:487:LEU:HD22	2.13	0.48
2:L:653:PHE:HE2	2:L:846:ILE:CD1	2.26	0.48
2:L:861:LEU:O	2:L:864:ASN:HB3	2.14	0.48
3:M:92:THR:CG2	3:M:92:THR:O	2.61	0.48
3:M:226:VAL:N	3:M:282:LEU:HD11	2.29	0.48
3:M:291:SER:HB2	3:M:315:VAL:HG23	1.96	0.48
3:M:391:SER:OG	3:M:396:ASN:CB	2.61	0.48
3:M:422:LEU:HD23	3:M:425:GLN:HE21	1.79	0.48
5:O:115:SER:O	5:O:117:ASN:N	2.46	0.48
6:S:43:ARG:HB2	6:S:44:PRO:HD2	1.91	0.48
1:1:12:ARG:O	1:1:12:ARG:CD	2.61	0.48
1:8:17:PRO:HD2	2:C:20:ALA:CB	2.44	0.48
2:A:86:LEU:HD23	2:A:86:LEU:C	2.39	0.48
2:A:114:LYS:HZ3	2:A:271:ASP:C	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:119:THR:CG2	2:A:121:TYR:H	2.19	0.48
2:A:222:GLU:N	2:B:788:GLN:NE2	2.62	0.48
2:A:328:ALA:C	2:A:330:GLN:N	2.70	0.48
2:A:436:ASN:O	2:A:436:ASN:OD1	2.32	0.48
2:A:498:SER:H	2:A:774:MET:CE	2.26	0.48
2:A:615:SER:HA	2:A:899:VAL:O	2.13	0.48
2:A:792:LEU:C	2:A:792:LEU:HD12	2.39	0.48
2:A:792:LEU:C	2:A:792:LEU:CD1	2.87	0.48
2:A:807:PRO:HD2	2:A:808:THR:H	1.79	0.48
2:B:171:ILE:HG23	2:B:175:LYS:N	2.28	0.48
2:B:229:LEU:C	2:B:229:LEU:HD12	2.38	0.48
2:C:53:THR:HG23	2:C:54:HIS:CG	2.49	0.48
2:C:213:TYR:C	2:C:215:SER:H	2.21	0.48
2:C:486:ALA:HB3	2:C:792:LEU:HD12	1.96	0.48
2:C:491:VAL:O	2:C:492:ASN:OD1	2.32	0.48
2:C:638:ILE:HD11	2:C:876:MET:HG2	1.95	0.48
2:C:743:MET:C	2:C:745:SER:H	2.22	0.48
2:C:781:THR:HB	2:C:782:THR:H	1.45	0.48
2:D:13:MET:CE	2:E:914:LEU:CG	2.86	0.48
2:D:191:GLU:HB2	2:D:194:ALA:HB2	1.96	0.48
2:D:215:SER:CB	2:E:816:PRO:CB	2.85	0.48
2:D:216:TYR:CE2	2:D:218:LYS:HG3	2.49	0.48
2:D:406:LYS:H	2:D:411:THR:H	1.61	0.48
2:D:490:TYR:HD2	2:D:820:PRO:HD3	1.79	0.48
2:D:795:GLN:NE2	2:D:819:TYR:CG	2.82	0.48
2:E:188:TRP:HB2	2:E:192:VAL:H	1.78	0.48
2:E:636:VAL:O	2:E:636:VAL:HG22	2.14	0.48
2:E:710:LEU:HD23	2:E:715:GLU:N	2.29	0.48
2:F:459:LYS:HD2	2:F:482:ALA:HA	1.96	0.48
2:F:798:ASN:O	2:F:802:VAL:HG22	2.14	0.48
2:F:815:TYR:CD2	2:F:816:PRO:HD2	2.47	0.48
2:G:94:LEU:HD11	2:G:99:THR:HG22	1.95	0.48
2:G:302:TYR:OH	2:G:517:ARG:NH1	2.47	0.48
2:G:717:GLU:C	2:G:738:TRP:CD1	2.91	0.48
2:G:787:TYR:C	2:G:787:TYR:CD1	2.92	0.48
2:G:895:VAL:HG12	2:G:917:PRO:HB2	1.96	0.48
2:H:148:PRO:HD2	2:H:199:ALA:O	2.13	0.48
2:H:516:LEU:HA	2:H:519:ARG:HH21	1.78	0.48
2:I:196:GLN:O	2:I:196:GLN:CG	2.61	0.48
2:I:488:ASP:HB3	2:I:490:TYR:CE2	2.48	0.48
2:I:490:TYR:CD2	2:I:797:ASN:OD1	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:708:ASP:O	2:I:708:ASP:OD1	2.32	0.48
2:I:797:ASN:HA	2:I:817:ALA:HB1	1.96	0.48
2:J:537:GLN:HG2	2:J:542:ILE:HG22	1.96	0.48
2:K:244:LEU:HD12	2:K:244:LEU:HA	1.68	0.48
2:K:293:GLN:O	2:K:294:GLN:C	2.54	0.48
2:K:653:PHE:CE1	2:K:846:ILE:HD11	2.43	0.48
2:K:741:ILE:HD12	2:K:852:PHE:CD1	2.48	0.48
2:L:177:TYR:HD2	2:L:200:GLY:HA2	1.78	0.48
2:L:275:VAL:CG2	2:L:481:VAL:HG11	2.44	0.48
2:L:712:THR:HG21	2:L:717:GLU:OE1	2.14	0.48
3:M:235:ASP:HB2	3:M:344:PHE:H	1.78	0.48
3:M:331:LEU:HD12	3:M:334:ASP:OD2	2.13	0.48
7:T:61:LEU:HD23	7:T:61:LEU:C	2.38	0.48
1:8:11:PRO:HG3	2:A:348:LEU:HD21	1.96	0.47
2:A:612:ASN:HD21	2:C:25:SER:HG	1.54	0.47
2:B:153:ASN:HD22	2:B:161:GLN:NE2	2.11	0.47
2:B:226:GLN:CB	2:B:265:VAL:HG23	2.44	0.47
2:B:279:ASP:HA	2:B:464:ASN:HD21	1.79	0.47
2:B:313:MET:O	2:B:315:TYR:N	2.47	0.47
2:B:449:ASN:O	2:B:450:VAL:HB	2.14	0.47
2:B:460:ILE:HD12	2:B:461:THR:N	2.28	0.47
2:B:779:VAL:HG23	2:B:829:VAL:CG1	2.40	0.47
2:B:899:VAL:CG1	2:B:913:TYR:CE1	2.97	0.47
2:C:49:THR:HG23	2:C:49:THR:O	2.14	0.47
2:C:129:ALA:O	2:C:212:CYS:SG	2.72	0.47
2:C:296:ALA:CB	2:C:297:PRO:CD	2.59	0.47
2:C:486:ALA:O	2:C:487:LEU:HB2	2.13	0.47
2:C:577:ASP:N	2:C:577:ASP:OD1	2.44	0.47
2:D:216:TYR:CZ	2:E:822:PRO:HD3	2.49	0.47
2:D:249:LEU:HB3	2:D:257:LYS:NZ	2.29	0.47
2:D:617:ASN:CB	2:F:46:ARG:NH1	2.77	0.47
2:D:781:THR:O	2:D:781:THR:CG2	2.61	0.47
2:D:878:PHE:HE2	2:D:891:VAL:HG21	1.79	0.47
2:E:102:ASP:OD2	2:E:589:TYR:CE2	2.66	0.47
2:E:139:ASN:OD1	2:E:141:ILE:N	2.45	0.47
2:E:541:ALA:HB3	2:E:542:ILE:HD12	1.96	0.47
2:E:563:ASN:O	2:E:563:ASN:OD1	2.31	0.47
2:E:707:ASN:HB2	2:E:708:ASP:H	1.35	0.47
2:E:734:MET:HE3	2:E:734:MET:HB2	1.40	0.47
2:E:739:PHE:HB3	2:E:740:LEU:H	1.53	0.47
2:F:730:ALA:O	2:F:732:CYS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:154:ILE:HG23	2:G:197:LYS:CD	2.44	0.47
2:G:717:GLU:O	2:G:738:TRP:HD1	1.97	0.47
2:G:900:ARG:HH11	2:G:900:ARG:CG	1.95	0.47
2:H:78:TYR:CE2	2:J:724:GLY:HA3	2.48	0.47
2:H:332:ASN:O	7:U:110:GLY:HA2	2.14	0.47
2:H:360:PHE:CD1	2:H:361:SER:N	2.81	0.47
2:H:629:ILE:HG22	2:H:630:PRO:O	2.14	0.47
2:H:700:SER:O	6:Q:24:ARG:NH2	2.47	0.47
2:H:717:GLU:CB	2:H:735:THR:HG21	2.39	0.47
2:I:810:ARG:O	2:I:810:ARG:CD	2.62	0.47
2:J:107:LEU:O	2:J:109:ARG:N	2.47	0.47
2:J:350:LEU:CB	2:J:356:ARG:HE	2.27	0.47
2:J:400:ASP:CG	2:J:424:GLU:HB2	2.38	0.47
2:J:627:TYR:HE2	2:J:638:ILE:HD12	1.79	0.47
2:J:798:ASN:ND2	2:L:124:LEU:HB2	2.29	0.47
2:J:888:LEU:HD23	6:R:25:LEU:HD22	1.95	0.47
2:K:84:PHE:CD2	2:K:588:LEU:HB2	2.49	0.47
2:K:135:TRP:HB2	2:K:141:ILE:H	1.79	0.47
2:K:216:TYR:HB2	2:K:268:GLU:N	2.29	0.47
2:K:341:ASN:OD1	2:K:890:TYR:OH	2.31	0.47
2:L:82:VAL:O	2:L:555:GLU:HA	2.14	0.47
2:L:103:ILE:CD1	2:L:533:ILE:HD11	2.33	0.47
2:L:309:PHE:CE2	2:L:533:ILE:HB	2.47	0.47
2:L:682:ASP:C	2:L:684:THR:H	2.22	0.47
3:M:100:THR:HG22	3:M:103:GLU:HB3	1.96	0.47
3:M:269:ILE:HD13	3:M:359:TRP:CH2	2.49	0.47
7:T:11:TRP:CZ3	7:T:23:ALA:HB2	2.49	0.47
2:A:68:PHE:HB2	2:A:588:LEU:O	2.13	0.47
2:A:303:ILE:CD1	2:A:574:LEU:HD21	2.44	0.47
2:A:345:SER:CB	2:A:618:ASP:OD1	2.62	0.47
2:A:367:VAL:HG21	2:A:764:MET:HE1	1.96	0.47
2:A:640:ILE:HB	2:A:874:LEU:CG	2.29	0.47
2:A:751:TYR:CE2	2:C:594:PRO:HD2	2.40	0.47
2:B:121:TYR:HA	2:C:490:TYR:OH	2.14	0.47
2:B:156:LYS:C	2:B:158:ASN:N	2.70	0.47
2:B:308:ASN:HD21	2:B:350:LEU:CD2	2.26	0.47
2:C:693:LYS:HE2	2:C:879:GLU:CD	2.38	0.47
2:D:215:SER:C	2:D:217:ALA:H	2.16	0.47
2:D:307:ASP:N	2:D:519:ARG:HH22	2.12	0.47
2:D:323:VAL:HA	2:D:332:ASN:OD1	2.13	0.47
2:D:440:ASN:OD1	2:E:388:ASN:OD1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:461:THR:HG23	2:D:467:LEU:HD11	1.95	0.47
2:D:499:PRO:C	2:D:501:PRO:HD2	2.40	0.47
2:D:662:PRO:HA	2:D:672:PHE:CD2	2.49	0.47
2:D:788:GLN:NE2	2:F:221:ASN:CA	2.77	0.47
2:D:809:MET:CE	2:F:187:GLN:HG2	2.43	0.47
2:D:831:SER:OG	2:F:528:TYR:O	2.30	0.47
2:E:137:ASP:OD1	2:E:140:LYS:HB2	2.14	0.47
2:E:197:LYS:HZ1	2:E:257:LYS:HD2	1.79	0.47
2:E:308:ASN:HA	2:E:363:TRP:O	2.13	0.47
2:E:620:LEU:O	2:E:621:CYS:C	2.57	0.47
2:E:783:THR:O	2:E:784:TYR:C	2.53	0.47
2:E:902:HIS:CE1	2:E:904:PRO:HB3	2.47	0.47
2:E:910:GLU:HA	2:E:910:GLU:OE2	2.14	0.47
2:F:187:GLN:C	2:F:189:ASN:H	2.22	0.47
2:F:189:ASN:O	2:F:190:SER:C	2.57	0.47
2:F:393:LEU:O	2:F:393:LEU:CD2	2.62	0.47
2:F:497:TRP:CD2	2:F:776:ARG:HD3	2.49	0.47
2:F:702:VAL:CG1	2:F:703:SER:N	2.78	0.47
2:F:749:ILE:CG2	2:F:750:GLY:N	2.77	0.47
2:G:10:TRP:HE1	2:H:916:THR:CG2	2.28	0.47
2:G:116:TYR:HB3	2:H:493:ILE:HG22	1.97	0.47
2:G:154:ILE:O	2:G:154:ILE:CG1	2.62	0.47
2:G:215:SER:HB2	2:G:267:ILE:HD13	1.94	0.47
2:G:447:TYR:CE1	2:G:482:ALA:HB3	2.49	0.47
2:H:96:MET:HE2	2:H:547:LEU:HD21	1.96	0.47
2:H:187:GLN:C	2:H:189:ASN:H	2.19	0.47
2:H:299:ARG:HH21	2:H:570:LEU:HD22	1.79	0.47
2:H:664:LEU:H	2:H:664:LEU:CD2	2.26	0.47
2:H:751:TYR:CD2	2:H:853:MET:HE1	2.49	0.47
2:H:815:TYR:O	2:H:816:PRO:C	2.57	0.47
2:H:843:MET:HE1	2:H:892:LEU:HD12	1.96	0.47
2:H:915:ARG:O	2:H:919:SER:N	2.47	0.47
2:I:135:TRP:CD2	2:I:143:VAL:CG1	2.97	0.47
2:I:375:ARG:HD2	2:I:507:PRO:CB	2.44	0.47
2:I:509:ASN:C	2:I:509:ASN:OD1	2.56	0.47
2:I:851:ASN:OD1	2:I:851:ASN:C	2.57	0.47
2:J:15:ILE:HG12	2:K:896:PHE:HD2	1.79	0.47
2:J:35:THR:HG23	2:J:38:TYR:CE1	2.49	0.47
2:J:206:THR:HA	2:J:285:ILE:CD1	2.42	0.47
2:J:358:ARG:HH12	2:K:769:ARG:NH2	2.12	0.47
2:J:425:ILE:HD13	2:K:143:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:574:LEU:HA	2:J:577:ASP:OD1	2.13	0.47
2:J:627:TYR:CD2	2:J:638:ILE:HG21	2.48	0.47
2:J:718:ILE:O	2:J:734:MET:HA	2.13	0.47
2:K:273:HIS:CE1	2:K:297:PRO:HD2	2.44	0.47
2:K:311:GLY:O	2:K:313:MET:N	2.47	0.47
2:K:389:TYR:CB	2:K:391:PHE:HE1	2.27	0.47
2:K:459:LYS:HZ2	2:K:480:ARG:CB	2.24	0.47
2:K:669:ASP:OD1	2:K:672:PHE:HB3	2.14	0.47
2:K:704:TRP:CD1	2:K:704:TRP:C	2.93	0.47
2:L:93:VAL:O	2:L:93:VAL:HG23	2.14	0.47
2:L:272:THR:HG23	2:L:296:ALA:H	1.79	0.47
2:L:497:TRP:CD1	2:L:776:ARG:NE	2.82	0.47
2:L:576:VAL:HG13	2:L:577:ASP:H	1.79	0.47
2:L:685:PHE:H	2:L:841:ARG:HA	1.79	0.47
2:L:782:THR:OG1	2:L:783:THR:HG23	2.13	0.47
3:M:465:THR:HG22	3:M:501:LYS:HZ2	1.79	0.47
6:P:41:ASP:CG	6:P:43:ARG:HG3	2.38	0.47
7:T:62:THR:CG2	7:T:196:GLU:HG2	2.44	0.47
1:3:26:GLY:O	1:3:27:THR:C	2.56	0.47
2:A:4:PRO:O	2:A:4:PRO:HD2	2.14	0.47
2:A:28:LEU:O	2:A:28:LEU:HD12	2.15	0.47
2:A:377:ILE:HD11	2:A:446:LEU:HD21	1.96	0.47
2:A:483:VAL:O	2:A:483:VAL:HG13	2.14	0.47
2:A:493:ILE:HG23	2:A:493:ILE:O	2.14	0.47
2:A:650:GLY:HA3	2:A:847:PRO:HA	1.96	0.47
2:A:815:TYR:HE1	2:C:201:ARG:HB2	1.79	0.47
2:B:156:LYS:O	2:B:158:ASN:ND2	2.47	0.47
2:B:289:ASP:N	2:B:291:LEU:HG	2.29	0.47
2:B:310:ILE:HG21	2:B:347:GLN:HE21	1.79	0.47
2:B:654:THR:HG22	2:B:655:ARG:N	2.28	0.47
2:B:718:ILE:HD11	2:B:738:TRP:CE2	2.50	0.47
2:B:733:ASN:OD1	2:B:733:ASN:C	2.57	0.47
2:C:359:TYR:CD1	2:C:359:TYR:N	2.77	0.47
2:C:605:ALA:HB3	7:T:89:VAL:CG1	2.41	0.47
2:C:642:SER:HA	2:C:872:HIS:C	2.38	0.47
2:C:786:GLU:OE2	2:C:786:GLU:N	2.48	0.47
2:C:811:GLU:OE1	2:C:811:GLU:O	2.32	0.47
2:D:140:LYS:NZ	2:F:405:ILE:HG22	2.28	0.47
2:D:194:ALA:HB3	2:D:196:GLN:HB2	1.97	0.47
2:D:203:LEU:HA	2:D:203:LEU:HD12	1.66	0.47
2:D:207:THR:CG2	2:D:267:ILE:HG13	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:374:VAL:HG21	2:D:510:HIS:NE2	2.29	0.47
2:D:531:PHE:CB	2:D:533:ILE:CD1	2.93	0.47
2:E:242:VAL:HG21	2:E:263:GLU:HB3	1.96	0.47
2:E:491:VAL:O	2:E:491:VAL:HG13	2.13	0.47
2:E:513:ASN:HB3	2:E:516:LEU:CB	2.45	0.47
2:E:640:ILE:CG2	2:E:874:LEU:HB3	2.44	0.47
2:F:82:VAL:O	2:F:555:GLU:HB2	2.14	0.47
2:F:711:LEU:HD13	2:F:727:TYR:CD1	2.50	0.47
2:F:771:PHE:CD1	2:F:772:GLN:N	2.81	0.47
2:G:138:ASN:ND2	2:G:138:ASN:N	2.62	0.47
2:G:548:LEU:HD11	2:G:604:GLU:HA	1.96	0.47
2:H:70:PRO:HB3	2:H:84:PHE:CE1	2.49	0.47
2:H:278:PRO:HG2	2:H:292:THR:HG23	1.97	0.47
2:H:491:VAL:HG13	2:H:492:ASN:OD1	2.14	0.47
2:H:664:LEU:HD22	2:H:680:TYR:HE2	1.79	0.47
2:H:902:HIS:NE2	2:H:904:PRO:HB3	2.29	0.47
2:I:114:LYS:HD2	2:I:116:TYR:HE1	1.79	0.47
2:I:280:VAL:HG22	2:I:284:THR:HB	1.95	0.47
2:I:672:PHE:HE1	2:I:674:TYR:O	1.97	0.47
2:J:102:ASP:O	2:J:102:ASP:CG	2.47	0.47
2:J:595:MET:CE	2:J:600:ALA:HA	2.44	0.47
2:J:685:PHE:O	2:J:840:ASP:HB2	2.14	0.47
2:J:858:LEU:HA	2:J:896:PHE:HZ	1.79	0.47
2:K:216:TYR:HA	2:K:268:GLU:H	1.79	0.47
2:K:452:LEU:HD23	2:K:482:ALA:HB2	1.95	0.47
2:K:865:MET:HE3	5:O:298:THR:CA	2.38	0.47
2:L:123:SER:O	2:L:125:ALA:N	2.47	0.47
2:L:206:THR:O	2:L:206:THR:OG1	2.28	0.47
2:L:504:ASN:CB	2:L:883:MET:HE1	2.44	0.47
2:L:731:GLN:N	2:L:731:GLN:OE1	2.47	0.47
3:M:71:ASP:CG	3:M:86:HIS:HD1	2.21	0.47
3:M:260:ARG:NH2	3:M:361:LEU:CD1	2.77	0.47
3:M:343:TRP:HE1	3:M:356:VAL:CG1	2.27	0.47
5:O:98:GLU:HG2	5:O:98:GLU:O	2.14	0.47
5:O:115:SER:HG	5:O:117:ASN:H	1.58	0.47
6:S:13:LYS:NZ	6:S:13:LYS:CB	2.77	0.47
2:A:109:ARG:NH2	2:A:523:LEU:HD12	2.30	0.47
2:A:120:ALA:CB	2:B:493:ILE:HD12	2.44	0.47
2:A:120:ALA:HB2	2:B:493:ILE:HD12	1.97	0.47
2:A:309:PHE:CE2	2:A:533:ILE:CG2	2.92	0.47
2:A:653:PHE:CE2	2:A:846:ILE:CD1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:143:VAL:O	2:C:143:VAL:CG2	2.62	0.47
2:C:171:ILE:HB	2:C:172:TYR:H	1.47	0.47
2:C:279:ASP:CG	2:C:280:VAL:H	2.21	0.47
2:C:436:ASN:OD1	2:C:436:ASN:C	2.57	0.47
2:C:638:ILE:HD11	2:C:876:MET:SD	2.54	0.47
2:C:686:TYR:CD1	2:C:687:LEU:HD12	2.49	0.47
2:C:776:ARG:O	2:C:777:GLN:CG	2.61	0.47
2:C:837:PHE:HE2	2:C:844:TRP:HH2	1.62	0.47
2:D:80:TYR:HH	2:D:583:PHE:HD2	1.55	0.47
2:D:148:PRO:HB3	2:E:812:GLY:O	2.13	0.47
2:D:346:TYR:CD2	2:D:538:LYS:HD3	2.50	0.47
2:D:384:ASP:OD1	2:F:213:TYR:OH	2.32	0.47
2:D:390:CYS:HB3	2:D:433:MET:C	2.38	0.47
2:D:403:SER:OG	2:D:413:THR:N	2.47	0.47
2:D:412:TRP:CD1	2:D:412:TRP:C	2.92	0.47
2:D:711:LEU:HD11	2:F:65:THR:CB	2.43	0.47
2:D:788:GLN:HE22	2:F:221:ASN:CA	2.26	0.47
2:D:896:PHE:CD2	2:F:15:ILE:HD11	2.49	0.47
2:E:153:ASN:HB3	2:E:161:GLN:HB2	1.97	0.47
2:E:196:GLN:OE1	2:E:196:GLN:CA	2.58	0.47
2:E:506:ASN:HD21	2:E:509:ASN:HD21	1.62	0.47
2:E:510:HIS:CD2	2:E:511:HIS:N	2.82	0.47
2:E:517:ARG:HG3	2:E:517:ARG:NH1	2.26	0.47
2:E:707:ASN:OD1	2:E:709:ARG:NH2	2.48	0.47
2:F:48:PRO:O	2:F:49:THR:C	2.57	0.47
2:F:107:LEU:HD23	2:F:109:ARG:HD3	1.96	0.47
2:F:184:GLY:O	2:F:185:GLN:HB2	2.13	0.47
2:F:391:PHE:CB	2:F:392:PRO:CD	2.82	0.47
2:F:796:HIS:O	2:F:817:ALA:HA	2.14	0.47
2:G:258:ALA:O	2:G:259:VAL:HG23	2.15	0.47
2:G:323:VAL:HG12	2:G:555:GLU:H	1.78	0.47
2:G:437:LEU:O	2:G:441:LEU:HD12	2.14	0.47
2:G:440:ASN:OD1	2:I:124:LEU:HD21	2.14	0.47
2:G:593:PHE:O	2:G:595:MET:N	2.48	0.47
2:G:615:SER:OG	2:I:46:ARG:HG2	2.14	0.47
2:G:770:ASN:O	2:G:839:CYS:HA	2.14	0.47
2:G:878:PHE:CG	2:G:889:LEU:HD11	2.49	0.47
2:H:160:ILE:O	2:H:170:PRO:HD3	2.14	0.47
2:H:637:PRO:HG3	6:Q:23:THR:HG21	1.96	0.47
2:I:211:PRO:CG	2:I:295:ALA:HB2	2.45	0.47
2:I:262:ALA:C	2:I:263:GLU:HG2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:309:PHE:CZ	2:I:533:ILE:HB	2.49	0.47
2:I:315:TYR:CE2	2:I:538:LYS:CG	2.98	0.47
2:I:848:PHE:O	2:I:861:LEU:HB3	2.14	0.47
2:J:56:VAL:O	2:J:596:ALA:N	2.43	0.47
2:J:113:PHE:O	2:J:113:PHE:CG	2.58	0.47
2:J:309:PHE:HE2	2:J:533:ILE:HB	1.76	0.47
2:J:418:TYR:CD1	2:K:247:PHE:CE1	3.03	0.47
2:J:534:GLN:N	2:J:534:GLN:OE1	2.48	0.47
2:J:658:THR:HG1	2:J:886:PRO:C	2.22	0.47
2:J:704:TRP:N	2:J:705:PRO:HD2	2.28	0.47
2:J:794:PHE:HZ	2:L:175:LYS:HG2	1.80	0.47
2:J:809:MET:HE1	2:L:187:GLN:CB	2.44	0.47
2:K:640:ILE:CG2	2:K:643:ARG:HH12	2.28	0.47
2:L:299:ARG:HD2	2:L:570:LEU:HD11	1.96	0.47
2:L:332:ASN:OD1	2:L:334:VAL:HG12	2.14	0.47
2:L:374:VAL:HG11	2:L:449:ASN:ND2	2.23	0.47
3:M:105:GLY:HA2	3:M:474:GLY:HA3	1.96	0.47
5:O:157:THR:HG22	5:O:157:THR:O	2.14	0.47
5:O:204:LEU:HD12	7:T:214:TYR:N	2.30	0.47
6:S:11:SER:C	6:S:13:LYS:H	2.20	0.47
7:T:177:LEU:CD2	9:V:5:UNK:CB	2.92	0.47
7:U:216:ASP:C	7:U:218:PHE:N	2.72	0.47
2:A:6:MET:O	2:A:7:MET:C	2.56	0.47
2:A:322:GLY:HA3	2:A:556:TRP:CZ3	2.49	0.47
2:A:335:VAL:H	2:A:913:TYR:HE2	1.61	0.47
2:A:648:PHE:HD1	2:A:649:ARG:H	1.59	0.47
2:A:694:VAL:HG13	2:A:716:PHE:HB2	1.97	0.47
2:A:797:ASN:O	2:A:798:ASN:C	2.55	0.47
2:A:836:LYS:HZ2	2:A:838:LEU:HD21	1.80	0.47
2:B:149:PHE:H	2:B:199:ALA:HB3	1.80	0.47
2:B:171:ILE:HG22	2:B:175:LYS:HB2	1.95	0.47
2:B:384:ASP:O	2:B:384:ASP:OD1	2.32	0.47
2:B:480:ARG:NH2	2:B:480:ARG:CG	2.75	0.47
2:C:208:PRO:O	2:C:210:LEU:HD23	2.14	0.47
2:C:213:TYR:C	2:C:215:SER:N	2.72	0.47
2:D:94:LEU:HD12	2:D:592:PHE:CD1	2.50	0.47
2:D:105:GLY:O	2:D:531:PHE:CD2	2.67	0.47
2:D:110:GLY:C	2:D:112:SER:N	2.69	0.47
2:D:306:ARG:NE	2:D:567:GLN:HB2	2.26	0.47
2:D:336:ASP:HB2	2:D:539:PHE:HZ	1.79	0.47
2:D:568:SER:H	2:D:675:SER:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:645:TRP:NE1	2:D:872:HIS:O	2.45	0.47
2:D:723:ASP:OD1	2:D:723:ASP:N	2.47	0.47
2:E:43:ASN:OD1	2:E:44:LYS:HE3	2.15	0.47
2:E:115:PRO:HB2	2:F:494:GLY:HA3	1.95	0.47
2:E:177:TYR:OH	2:F:799:SER:HA	2.13	0.47
2:E:562:VAL:O	2:E:563:ASN:CB	2.62	0.47
2:E:567:GLN:HG3	2:E:568:SER:H	1.79	0.47
2:E:658:THR:HA	2:E:661:THR:HG22	1.95	0.47
2:E:781:THR:HA	2:E:787:TYR:CE2	2.49	0.47
2:E:809:MET:HA	2:F:389:TYR:CZ	2.49	0.47
2:E:915:ARG:CG	2:E:915:ARG:NH2	2.44	0.47
2:F:164:THR:HG23	2:F:168:ASN:ND2	2.29	0.47
2:F:349:MET:CE	2:F:543:LYS:HD2	2.44	0.47
2:F:562:VAL:O	2:F:565:ILE:HG13	2.15	0.47
2:F:876:MET:HE2	2:F:878:PHE:HZ	1.76	0.47
2:G:83:ARG:NE	2:G:553:THR:HG23	2.29	0.47
2:G:88:VAL:HG23	2:G:88:VAL:O	2.14	0.47
2:G:142:LYS:HG2	2:G:247:PHE:CE1	2.50	0.47
2:G:356:ARG:CZ	2:G:356:ARG:HB3	2.44	0.47
2:G:364:ASN:OD1	2:G:364:ASN:O	2.32	0.47
2:G:534:GLN:NE2	2:H:729:VAL:C	2.68	0.47
2:G:751:TYR:OH	2:I:64:LEU:HD11	2.15	0.47
2:G:898:VAL:HG11	2:I:13:MET:HE3	1.96	0.47
2:H:86:LEU:O	2:H:552:TYR:N	2.43	0.47
2:H:163:GLY:C	2:H:168:ASN:HB3	2.40	0.47
2:H:649:ARG:CZ	2:H:894:GLU:OE1	2.61	0.47
2:I:379:ASN:OD1	2:I:379:ASN:O	2.32	0.47
2:J:102:ASP:OD1	2:J:102:ASP:O	2.33	0.47
2:J:539:PHE:HD2	2:J:541:ALA:H	1.62	0.47
2:J:624:ASN:OD1	2:J:890:TYR:OH	2.31	0.47
2:J:721:THR:O	6:P:55:TYR:HD1	1.98	0.47
2:J:801:PHE:CE1	2:J:814:ALA:HB2	2.49	0.47
2:K:76:THR:HG22	2:K:77:ALA:N	2.30	0.47
2:K:315:TYR:HE2	2:K:538:LYS:HE2	1.77	0.47
2:K:384:ASP:OD1	2:K:385:GLU:N	2.47	0.47
2:K:548:LEU:HB3	2:K:549:PRO:CD	2.44	0.47
2:L:156:LYS:C	2:L:158:ASN:H	2.22	0.47
2:L:176:THR:C	2:L:178:GLN:N	2.71	0.47
2:L:313:MET:SD	2:L:535:VAL:HG11	2.54	0.47
2:L:384:ASP:HB3	2:L:438:ALA:HB3	1.95	0.47
2:L:759:SER:OG	2:L:760:TYR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:236:ILE:HG22	3:M:237:VAL:N	2.29	0.47
3:M:285:VAL:O	3:M:285:VAL:CG1	2.62	0.47
5:O:17:ALA:O	5:O:21:ALA:N	2.44	0.47
5:O:40:ASP:OD1	5:O:40:ASP:O	2.31	0.47
5:O:270:ARG:NH1	5:O:270:ARG:HB3	2.29	0.47
6:S:32:ARG:CZ	6:S:32:ARG:CB	2.91	0.47
7:T:101:MET:CG	7:T:107:GLN:OE1	2.62	0.47
7:U:107:GLN:O	7:U:108:LEU:C	2.57	0.47
2:A:114:LYS:HZ2	2:A:271:ASP:HB3	1.77	0.47
2:A:564:MET:SD	2:A:662:PRO:HG3	2.54	0.47
2:A:678:VAL:CG2	2:A:681:LEU:HB2	2.44	0.47
2:A:837:PHE:HE2	2:A:844:TRP:CZ2	2.33	0.47
2:A:860:ASP:OD1	2:A:860:ASP:C	2.58	0.47
2:A:863:GLN:HG2	2:A:863:GLN:O	2.15	0.47
2:B:107:LEU:HD22	2:B:305:PHE:CE1	2.50	0.47
2:B:171:ILE:HG23	2:B:174:ASP:HB3	1.97	0.47
2:B:434:GLU:O	2:B:435:ILE:HG13	2.14	0.47
2:C:213:TYR:CD1	2:C:214:GLY:N	2.82	0.47
2:C:574:LEU:C	2:C:576:VAL:N	2.72	0.47
2:C:753:GLY:O	2:C:755:TYR:N	2.48	0.47
2:C:826:GLN:OE1	2:C:826:GLN:HA	2.15	0.47
2:D:193:GLY:C	2:D:195:ALA:N	2.72	0.47
2:D:213:TYR:OH	2:E:384:ASP:OD1	2.33	0.47
2:D:257:LYS:O	2:D:258:ALA:CB	2.61	0.47
2:D:322:GLY:HA3	2:D:556:TRP:CE2	2.50	0.47
2:D:543:LYS:HB3	2:D:544:ASN:OD1	2.15	0.47
2:D:744:LEU:HG	2:D:853:MET:HG2	1.97	0.47
2:E:61:SER:HB3	2:E:62:GLN:NE2	2.28	0.47
2:E:65:THR:HA	2:E:590:ALA:O	2.14	0.47
2:E:148:PRO:HD3	2:F:813:GLN:NE2	2.30	0.47
2:E:516:LEU:CD2	2:E:569:SER:HB2	2.44	0.47
2:F:161:GLN:O	2:F:162:ILE:C	2.56	0.47
2:F:182:GLN:NE2	2:F:182:GLN:H	2.12	0.47
2:F:514:ALA:O	2:F:517:ARG:HB3	2.15	0.47
2:F:635:SER:HA	2:F:878:PHE:O	2.14	0.47
2:F:636:VAL:O	2:F:638:ILE:HG23	2.13	0.47
2:F:780:ASN:CB	2:F:832:LEU:HD23	2.43	0.47
2:G:56:VAL:HG21	2:I:38:TYR:OH	2.15	0.47
2:G:172:TYR:O	2:G:242:VAL:HG11	2.15	0.47
2:G:216:TYR:CE2	2:H:818:ASN:HA	2.50	0.47
2:G:246:PHE:HD2	2:I:412:TRP:CZ2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:730:ALA:O	2:G:731:GLN:C	2.58	0.47
2:G:901:ILE:HG23	2:G:909:ILE:HD13	1.94	0.47
2:H:155:ASN:HB3	2:H:157:ASP:H	1.80	0.47
2:H:360:PHE:HD1	2:H:361:SER:N	2.10	0.47
2:H:740:LEU:O	2:H:744:LEU:HB3	2.13	0.47
2:I:86:LEU:HD23	2:I:86:LEU:O	2.14	0.47
2:I:135:TRP:CD1	2:I:143:VAL:HB	2.49	0.47
2:I:144:ARG:HE	2:I:144:ARG:HB2	1.37	0.47
2:I:150:ILE:HG23	2:I:197:LYS:HD2	1.97	0.47
2:I:653:PHE:CD1	2:I:691:PHE:HE2	2.32	0.47
2:I:784:TYR:HD2	2:I:787:TYR:HB2	1.79	0.47
2:I:914:LEU:O	2:I:914:LEU:CD2	2.55	0.47
2:J:64:LEU:C	2:J:64:LEU:HD12	2.39	0.47
2:J:148:PRO:HD3	2:K:813:GLN:HB3	1.96	0.47
2:J:314:TYR:CZ	2:J:559:ARG:HD3	2.50	0.47
2:J:394:GLY:C	2:K:144:ARG:NH2	2.73	0.47
2:J:500:ASP:N	2:J:501:PRO:HD2	2.30	0.47
2:J:617:ASN:HD22	2:L:46:ARG:HH12	1.62	0.47
2:J:658:THR:CG2	6:R:32:ARG:HD2	2.43	0.47
2:J:718:ILE:HG13	2:J:738:TRP:CE2	2.50	0.47
2:J:914:LEU:O	2:J:914:LEU:CG	2.61	0.47
2:K:50:VAL:HG12	2:L:858:LEU:HD23	1.96	0.47
2:K:255:GLU:HB3	2:K:256:PRO:HD2	1.95	0.47
2:K:384:ASP:OD1	2:K:384:ASP:C	2.56	0.47
2:K:649:ARG:HG2	2:K:894:GLU:HB3	1.96	0.47
2:L:150:ILE:HD12	2:L:184:GLY:H	1.80	0.47
2:L:183:VAL:C	2:L:185:GLN:N	2.67	0.47
2:L:389:TYR:CB	2:L:391:PHE:HE1	2.26	0.47
2:L:740:LEU:O	2:L:740:LEU:HD12	2.14	0.47
7:T:222:TYR:CZ	7:T:227:GLU:HA	2.50	0.47
7:U:87:THR:O	7:U:87:THR:OG1	2.33	0.47
1:0:26:ARG:HB2	2:I:35:THR:HG22	1.97	0.47
1:4:23:ASN:O	1:4:25:ILE:HB	2.15	0.47
2:A:65:THR:HG21	2:B:711:LEU:CD1	2.44	0.47
2:A:442:TRP:HD1	2:A:489:THR:HG1	1.61	0.47
2:A:697:MET:HE1	2:A:700:SER:CA	2.44	0.47
2:A:738:TRP:HZ2	2:A:844:TRP:HB3	1.78	0.47
2:A:741:ILE:HG22	2:A:742:GLN:OE1	2.15	0.47
2:B:61:SER:HA	2:C:707:ASN:OD1	2.14	0.47
2:B:114:LYS:HZ1	2:B:298:ASN:CA	2.27	0.47
2:B:114:LYS:HG3	2:C:824:ILE:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:137:ASP:O	2:B:137:ASP:OD1	2.33	0.47
2:B:346:TYR:HB2	2:B:538:LYS:HD2	1.95	0.47
2:B:440:ASN:OD1	2:C:388:ASN:HA	2.15	0.47
2:B:475:ALA:C	2:B:477:MET:H	2.21	0.47
2:B:497:TRP:CZ2	2:B:836:LYS:HG3	2.39	0.47
2:B:658:THR:O	2:B:659:LYS:C	2.56	0.47
2:B:895:VAL:HG11	2:B:917:PRO:CD	2.45	0.47
2:C:276:TYR:O	2:C:276:TYR:CD1	2.67	0.47
2:C:436:ASN:OD1	2:C:436:ASN:O	2.33	0.47
2:C:440:ASN:C	2:C:442:TRP:H	2.21	0.47
2:C:649:ARG:NH1	2:C:894:GLU:HB3	2.30	0.47
2:C:652:SER:O	2:C:892:LEU:N	2.39	0.47
2:C:708:ASP:OD1	2:C:713:PRO:HG3	2.15	0.47
2:C:710:LEU:HG	2:C:711:LEU:N	2.30	0.47
2:C:797:ASN:C	2:C:799:SER:N	2.70	0.47
2:C:864:ASN:OD1	2:C:865:MET:N	2.48	0.47
2:D:82:VAL:HG11	2:D:586:ILE:HD13	1.97	0.47
2:D:108:ASP:OD1	2:D:108:ASP:C	2.58	0.47
2:D:139:ASN:OD1	2:D:140:LYS:N	2.48	0.47
2:D:172:TYR:CD1	2:D:173:ALA:N	2.83	0.47
2:D:523:LEU:HD23	2:D:523:LEU:HA	1.76	0.47
2:E:64:LEU:HD13	2:F:709:ARG:HB3	1.96	0.47
2:E:135:TRP:CZ3	2:E:137:ASP:HB3	2.50	0.47
2:E:171:ILE:HG12	2:E:172:TYR:N	2.30	0.47
2:E:189:ASN:ND2	2:E:190:SER:HB2	2.30	0.47
2:E:222:GLU:CA	2:F:788:GLN:NE2	2.71	0.47
2:E:459:LYS:HG2	2:E:481:VAL:O	2.14	0.47
2:E:459:LYS:CE	2:E:480:ARG:HB3	2.45	0.47
2:E:593:PHE:CD1	2:E:594:PRO:HD2	2.37	0.47
2:E:795:GLN:O	2:E:796:HIS:HB3	2.14	0.47
2:E:916:THR:HB	2:E:917:PRO:HD3	1.82	0.47
2:F:43:ASN:OD1	2:F:44:LYS:HD2	2.15	0.47
2:F:107:LEU:HD11	2:F:566:LEU:HD21	1.97	0.47
2:F:187:GLN:H	2:F:187:GLN:CD	2.00	0.47
2:F:323:VAL:HG12	2:F:332:ASN:CB	2.44	0.47
2:F:643:ARG:NH2	2:H:700:SER:N	2.63	0.47
2:F:733:ASN:O	2:F:733:ASN:OD1	2.33	0.47
2:F:823:LEU:O	2:F:823:LEU:CD2	2.60	0.47
2:F:890:TYR:HE1	2:F:892:LEU:CD2	2.28	0.47
2:F:923:ALA:C	2:H:864:ASN:HD21	2.22	0.47
2:G:46:ARG:HG2	2:H:615:SER:OG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:62:GLN:CG	2:G:92:ARG:HD3	2.44	0.47
2:G:97:ALA:C	2:G:99:THR:H	2.22	0.47
2:G:220:THR:HG23	2:G:227:ALA:N	2.29	0.47
2:G:333:ALA:O	2:G:334:VAL:C	2.50	0.47
2:G:341:ASN:O	2:G:342:THR:C	2.57	0.47
2:G:437:LEU:C	2:G:439:ALA:N	2.72	0.47
2:G:497:TRP:CZ3	2:G:776:ARG:CG	2.98	0.47
2:G:497:TRP:CH2	2:G:776:ARG:HG3	2.50	0.47
2:G:506:ASN:HA	2:G:686:TYR:CD2	2.50	0.47
2:G:837:PHE:HE2	2:G:844:TRP:CZ2	2.33	0.47
2:H:15:ILE:HG12	2:I:896:PHE:CD2	2.49	0.47
2:H:160:ILE:CA	2:H:197:LYS:HE3	2.43	0.47
2:H:217:ALA:CB	2:H:265:VAL:HG11	2.44	0.47
2:H:360:PHE:CE1	2:H:362:MET:HB3	2.49	0.47
2:H:653:PHE:HE2	2:H:846:ILE:CD1	2.27	0.47
2:H:748:ASN:OD1	2:H:748:ASN:O	2.32	0.47
2:H:902:HIS:CD2	2:H:904:PRO:HD3	2.49	0.47
2:I:84:PHE:CE2	2:I:588:LEU:HB2	2.50	0.47
2:I:103:ILE:HB	2:I:533:ILE:HG12	1.97	0.47
2:I:150:ILE:HG22	2:I:197:LYS:CD	2.45	0.47
2:I:226:GLN:HA	2:I:226:GLN:OE1	2.14	0.47
2:I:410:GLN:CA	2:I:410:GLN:NE2	2.78	0.47
2:I:415:ASP:OD1	2:I:416:ASP:N	2.48	0.47
2:I:553:THR:O	2:I:553:THR:HG23	2.14	0.47
2:I:688:ASN:HD21	2:I:842:THR:CG2	2.27	0.47
2:J:36:ASP:O	2:J:36:ASP:OD1	2.33	0.47
2:J:101:PHE:CE2	2:J:554:TYR:CE2	2.94	0.47
2:J:218:LYS:HA	2:J:219:PRO:HD3	1.68	0.47
2:J:322:GLY:O	2:J:323:VAL:HG13	2.15	0.47
2:J:436:ASN:C	2:J:438:ALA:H	2.17	0.47
2:J:672:PHE:CE1	2:J:674:TYR:HB3	2.50	0.47
2:J:833:THR:CG2	2:L:530:PRO:HD2	2.45	0.47
2:J:894:GLU:O	2:J:895:VAL:HG13	2.13	0.47
2:K:258:ALA:C	2:K:259:VAL:HG23	2.38	0.47
2:K:344:LEU:HD23	2:K:344:LEU:C	2.39	0.47
2:K:428:GLY:O	2:L:148:PRO:HA	2.14	0.47
2:K:508:PHE:HD2	2:K:684:THR:HB	1.73	0.47
2:K:525:ASN:HB2	2:L:494:GLY:O	2.14	0.47
2:K:792:LEU:HB3	2:K:793:PRO:HD3	1.97	0.47
2:K:832:LEU:HD12	2:K:832:LEU:C	2.39	0.47
2:K:858:LEU:C	2:K:858:LEU:HD23	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:917:PRO:O	2:K:918:PHE:HD1	1.98	0.47
2:L:100:TYR:CD2	2:L:534:GLN:HB3	2.50	0.47
2:L:114:LYS:NZ	2:L:298:ASN:H	2.12	0.47
2:L:150:ILE:HD12	2:L:183:VAL:CG2	2.45	0.47
2:L:172:TYR:O	2:L:173:ALA:HB3	2.14	0.47
2:L:176:THR:HG23	2:L:201:ARG:HH11	1.73	0.47
2:L:180:GLU:CG	2:L:180:GLU:O	2.61	0.47
2:L:371:ASP:O	2:L:374:VAL:HG22	2.15	0.47
2:L:540:PHE:CE2	2:L:618:ASP:HB2	2.50	0.47
2:L:711:LEU:HD12	2:L:737:ASP:OD1	2.14	0.47
2:L:869:ASN:CG	7:U:21:ALA:HB1	2.38	0.47
2:L:885:GLU:HB2	2:L:886:PRO:HD2	1.96	0.47
3:M:277:GLY:CA	3:M:346:ALA:HB2	2.44	0.47
3:M:419:TYR:CZ	3:M:423:ILE:HD11	2.49	0.47
4:N:187:LEU:C	4:N:188:GLU:CG	2.83	0.47
5:O:54:ARG:HB3	5:O:54:ARG:HH11	1.78	0.47
5:O:213:PHE:C	5:O:215:ASN:N	2.71	0.47
5:O:261:TYR:C	5:O:263:GLY:N	2.66	0.47
7:T:214:TYR:O	7:T:216:ASP:N	2.48	0.47
1:1:11:PRO:O	1:1:12:ARG:C	2.54	0.47
1:1:15:SER:O	1:1:16:ARG:HD2	2.14	0.47
2:A:335:VAL:O	2:A:335:VAL:HG12	2.13	0.47
2:A:778:VAL:HG22	2:A:779:VAL:N	2.30	0.47
2:B:137:ASP:O	2:B:138:ASN:C	2.55	0.47
2:B:173:ALA:O	2:B:221:ASN:ND2	2.42	0.47
2:B:182:GLN:O	2:B:183:VAL:C	2.57	0.47
2:B:485:SER:CB	2:B:792:LEU:HD11	2.40	0.47
2:B:490:TYR:HA	2:B:493:ILE:HG13	1.95	0.47
2:B:679:PRO:HB3	2:B:684:THR:O	2.15	0.47
2:C:135:TRP:HB2	2:C:139:ASN:HB2	1.97	0.47
2:C:210:LEU:CB	2:C:211:PRO:HD3	2.42	0.47
2:C:284:THR:OG1	2:C:285:ILE:N	2.48	0.47
2:C:355:ASP:C	2:C:357:SER:H	2.22	0.47
2:C:375:ARG:O	2:C:375:ARG:HD2	2.15	0.47
2:C:513:ASN:HD21	2:C:516:LEU:HB3	1.80	0.47
2:C:559:ARG:HH11	2:C:559:ARG:HG3	1.79	0.47
2:C:593:PHE:O	2:C:594:PRO:C	2.57	0.47
2:C:738:TRP:CH2	2:C:846:ILE:HD11	2.49	0.47
2:C:784:TYR:CD1	2:C:829:VAL:HB	2.50	0.47
2:D:28:LEU:HD12	2:D:28:LEU:O	2.15	0.47
2:D:269:ALA:C	2:D:271:ASP:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:377:ILE:CG1	2:D:446:LEU:HD11	2.43	0.47
2:D:389:TYR:HB2	2:D:391:PHE:CE1	2.50	0.47
2:D:495:ALA:HB2	2:F:525:ASN:OD1	2.14	0.47
2:E:355:ASP:OD1	2:E:357:SER:HB3	2.14	0.47
2:E:371:ASP:O	2:E:374:VAL:HG12	2.15	0.47
2:E:550:GLY:HA3	2:E:552:TYR:CE1	2.49	0.47
2:E:573:ASP:OD1	2:E:673:THR:HA	2.15	0.47
2:F:547:LEU:HD21	2:F:552:TYR:CG	2.50	0.47
2:F:771:PHE:HD1	2:F:772:GLN:N	2.05	0.47
2:G:440:ASN:CG	2:H:388:ASN:HD22	2.23	0.47
2:G:493:ILE:HD13	2:I:120:ALA:CB	2.44	0.47
2:G:516:LEU:HA	2:G:519:ARG:NH2	2.27	0.47
2:G:795:GLN:HB3	2:G:819:TYR:CB	2.38	0.47
2:H:182:GLN:CB	2:H:184:GLY:N	2.70	0.47
2:H:190:SER:OG	2:H:191:GLU:N	2.47	0.47
2:H:405:ILE:CG1	2:H:407:ALA:HB3	2.44	0.47
2:H:653:PHE:CD1	2:H:691:PHE:HE2	2.33	0.47
2:H:741:ILE:HD12	2:H:852:PHE:CD2	2.50	0.47
2:H:766:SER:O	2:H:842:THR:OG1	2.31	0.47
2:I:80:TYR:CE1	2:I:586:ILE:HD13	2.50	0.47
2:I:109:ARG:N	2:I:527:ARG:O	2.48	0.47
2:I:586:ILE:HD12	2:I:586:ILE:N	2.30	0.47
2:J:18:GLN:HB3	2:J:22:GLU:CG	2.40	0.47
2:J:103:ILE:HG22	2:J:104:ARG:N	2.29	0.47
2:J:116:TYR:HB2	2:K:493:ILE:HD11	1.96	0.47
2:J:222:GLU:O	2:J:223:LYS:HB2	2.15	0.47
2:J:325:ALA:HB2	2:J:331:LEU:O	2.14	0.47
2:J:447:TYR:O	2:J:447:TYR:CG	2.61	0.47
2:J:796:HIS:CE1	2:J:818:ASN:OD1	2.68	0.47
2:J:810:ARG:CZ	2:K:430:ILE:O	2.58	0.47
2:K:98:SER:HA	2:L:753:GLY:HA2	1.95	0.47
2:K:449:ASN:O	2:K:451:ALA:N	2.48	0.47
2:L:220:THR:HG22	2:L:221:ASN:CB	2.24	0.47
2:L:367:VAL:HG11	2:L:764:MET:CE	2.45	0.47
2:L:376:ILE:HG21	2:L:772:GLN:NE2	2.30	0.47
2:L:382:VAL:HG12	2:L:442:TRP:HB2	1.96	0.47
2:L:459:LYS:O	2:L:480:ARG:NH2	2.48	0.47
2:L:511:HIS:O	2:L:517:ARG:CZ	2.63	0.47
3:M:92:THR:O	3:M:92:THR:HG23	2.15	0.47
7:U:107:GLN:O	7:U:107:GLN:HG2	2.14	0.47
2:A:121:TYR:HA	2:B:819:TYR:CZ	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:351:ASP:O	2:A:763:ARG:HD3	2.14	0.47
2:A:709:ARG:O	2:A:709:ARG:HG2	2.14	0.47
2:B:184:GLY:O	2:B:185:GLN:HB3	2.14	0.47
2:B:341:ASN:OD1	2:B:341:ASN:O	2.32	0.47
2:B:347:GLN:O	2:B:765:TYR:HE2	1.98	0.47
2:B:474:TYR:O	2:B:477:MET:HB2	2.15	0.47
2:B:562:VAL:HG13	2:B:563:ASN:N	2.29	0.47
2:B:624:ASN:HD22	2:B:892:LEU:HD21	1.79	0.47
2:B:823:LEU:O	2:B:823:LEU:CD2	2.50	0.47
2:C:53:THR:HG23	2:C:54:HIS:CD2	2.49	0.47
2:C:70:PRO:HG3	2:C:84:PHE:HE1	1.80	0.47
2:C:106:VAL:CG1	2:C:581:VAL:HB	2.45	0.47
2:C:329:SER:C	2:C:331:LEU:N	2.73	0.47
2:C:351:ASP:O	2:C:351:ASP:OD1	2.32	0.47
2:C:446:LEU:HD23	2:C:488:ASP:C	2.40	0.47
2:D:201:ARG:HB3	2:E:815:TYR:HE1	1.77	0.47
2:D:318:THR:HG22	2:D:321:MET:HE2	1.95	0.47
2:D:836:LYS:HG3	2:D:837:PHE:H	1.80	0.47
2:E:119:THR:HG21	2:E:213:TYR:CZ	2.50	0.47
2:E:124:LEU:C	2:E:124:LEU:HD23	2.40	0.47
2:E:241:ASP:OD1	2:E:241:ASP:C	2.58	0.47
2:E:324:LEU:HD22	2:E:542:ILE:CG2	2.44	0.47
2:E:403:SER:CB	2:F:250:PRO:HB3	2.45	0.47
2:E:652:SER:HB3	2:E:892:LEU:HB3	1.95	0.47
2:E:755:TYR:O	2:E:755:TYR:CD1	2.67	0.47
2:G:140:LYS:C	2:G:141:ILE:HG12	2.37	0.47
2:G:251:SER:CA	2:G:253:PRO:HD3	2.44	0.47
2:G:285:ILE:O	2:G:286:SER:HB3	2.14	0.47
2:G:467:LEU:CD1	2:G:479:GLY:HA3	2.33	0.47
2:G:707:ASN:HD22	2:I:60:ARG:C	2.21	0.47
2:G:779:VAL:HG23	2:G:787:TYR:HE2	1.80	0.47
2:G:902:HIS:O	2:G:902:HIS:ND1	2.47	0.47
2:H:210:LEU:CD2	2:H:269:ALA:HB2	2.45	0.47
2:H:326:GLY:HA3	2:H:907:GLY:O	2.14	0.47
2:H:714:ASN:HB2	2:H:715:GLU:OE1	2.15	0.47
2:H:734:MET:CG	2:H:735:THR:H	2.27	0.47
2:J:202:VAL:O	2:J:202:VAL:CG2	2.61	0.47
2:J:732:CYS:HB3	2:J:773:PRO:HB3	1.96	0.47
2:J:804:TYR:CE1	2:J:805:MET:HG2	2.49	0.47
2:K:127:LYS:HG2	2:K:213:TYR:CG	2.50	0.47
2:K:135:TRP:HB2	2:K:141:ILE:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:259:VAL:O	2:K:260:LEU:HD23	2.15	0.47
2:K:435:ILE:HD11	2:L:390:CYS:CA	2.45	0.47
2:K:463:ASP:OD1	2:K:464:ASN:HB2	2.15	0.47
2:K:801:PHE:O	2:K:802:VAL:HG23	2.15	0.47
2:L:224:GLY:N	2:L:226:GLN:HE21	2.04	0.47
2:L:310:ILE:HG12	2:L:538:LYS:HE3	1.96	0.47
2:L:384:ASP:O	2:L:384:ASP:OD1	2.33	0.47
2:L:514:ALA:HA	2:L:517:ARG:HG3	1.96	0.47
2:L:840:ASP:OD1	2:L:840:ASP:N	2.43	0.47
2:L:864:ASN:OD1	2:L:864:ASN:C	2.58	0.47
3:M:197:VAL:HG11	3:M:201:ASP:CB	2.30	0.47
5:O:67:GLU:OE1	5:O:67:GLU:CA	2.62	0.47
5:O:117:ASN:C	5:O:117:ASN:HD22	2.22	0.47
6:R:17:PHE:O	6:R:17:PHE:HD1	1.98	0.47
7:U:165:ARG:HG3	7:U:172:GLN:NE2	2.30	0.47
2:A:511:HIS:CD2	2:A:512:ARG:HG3	2.49	0.47
2:A:702:VAL:HG23	2:A:702:VAL:O	2.15	0.47
2:A:809:MET:O	2:C:187:GLN:NE2	2.47	0.47
2:B:35:THR:HG22	2:B:39:PHE:O	2.14	0.47
2:B:180:GLU:O	2:B:180:GLU:HG2	2.15	0.47
2:B:197:LYS:HA	2:B:257:LYS:HA	1.97	0.47
2:B:198:VAL:O	2:B:259:VAL:N	2.48	0.47
2:B:307:ASP:H	2:B:519:ARG:HH12	1.61	0.47
2:B:345:SER:O	2:B:346:TYR:C	2.58	0.47
2:B:626:LEU:HD12	2:B:626:LEU:N	2.30	0.47
2:C:368:ASP:OD1	2:C:513:ASN:ND2	2.48	0.47
2:D:43:ASN:OD1	2:D:43:ASN:O	2.32	0.47
2:D:56:VAL:HG21	2:F:38:TYR:CE2	2.50	0.47
2:D:107:LEU:CD2	2:D:107:LEU:C	2.87	0.47
2:D:406:LYS:HZ2	2:D:410:GLN:H	1.63	0.47
2:D:679:PRO:HG3	2:D:686:TYR:HE2	1.76	0.47
2:D:725:GLU:O	2:D:725:GLU:CG	2.58	0.47
2:D:804:TYR:CD1	2:D:805:MET:N	2.78	0.47
2:D:837:PHE:CE2	2:D:844:TRP:HH2	2.31	0.47
2:E:403:SER:N	2:F:250:PRO:CA	2.78	0.47
2:E:497:TRP:CZ2	2:E:836:LYS:NZ	2.83	0.47
2:E:527:ARG:HD3	2:F:828:ALA:HB2	1.96	0.47
2:E:653:PHE:CZ	2:E:846:ILE:HG21	2.50	0.47
2:E:697:MET:HE2	2:E:697:MET:HB2	1.68	0.47
2:F:107:LEU:HG	2:F:109:ARG:HG3	1.96	0.47
2:F:127:LYS:O	2:F:128:THR:OG1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:389:TYR:HD1	2:F:434:GLU:HB3	1.80	0.47
2:F:483:VAL:O	2:F:483:VAL:HG13	2.14	0.47
2:F:644:ASN:O	2:F:645:TRP:C	2.58	0.47
2:F:690:THR:O	2:F:691:PHE:CD1	2.60	0.47
2:F:875:ASP:OD1	2:F:875:ASP:N	2.44	0.47
2:F:900:ARG:HH11	2:F:900:ARG:HG3	1.80	0.47
2:G:143:VAL:O	2:G:145:GLY:N	2.46	0.47
2:G:223:LYS:HD3	2:G:223:LYS:O	2.15	0.47
2:G:272:THR:HA	2:G:296:ALA:O	2.15	0.47
2:G:497:TRP:CZ3	2:G:776:ARG:HG3	2.50	0.47
2:G:500:ASP:OD1	2:G:501:PRO:N	2.48	0.47
2:G:658:THR:HG22	2:G:888:LEU:CG	2.43	0.47
2:G:809:MET:CB	2:H:389:TYR:OH	2.62	0.47
2:H:127:LYS:O	2:H:127:LYS:HG3	2.15	0.47
2:H:690:THR:HA	2:H:881:ASP:OD2	2.15	0.47
2:I:137:ASP:O	2:I:140:LYS:HB2	2.14	0.47
2:I:158:ASN:OD1	2:I:169:GLN:CD	2.56	0.47
2:I:490:TYR:HD2	2:I:797:ASN:OD1	1.98	0.47
2:J:181:PRO:HG3	2:L:429:ASN:HD22	1.79	0.47
2:J:287:SER:OG	2:J:288:ALA:N	2.47	0.47
2:J:525:ASN:HD22	2:K:495:ALA:HB3	1.80	0.47
2:J:625:MET:SD	6:R:24:ARG:CZ	3.03	0.47
2:J:715:GLU:OE1	6:P:28:TRP:CE3	2.67	0.47
2:J:824:ILE:HG22	2:J:824:ILE:O	2.15	0.47
2:K:219:PRO:C	2:L:788:GLN:HE21	2.23	0.47
2:K:316:ASN:HD22	2:K:336:ASP:CG	2.21	0.47
2:K:893:PHE:CD2	2:K:918:PHE:HE2	2.33	0.47
2:L:149:PHE:CG	2:L:150:ILE:N	2.82	0.47
2:L:203:LEU:CD1	2:L:203:LEU:H	2.27	0.47
2:L:449:ASN:ND2	2:L:512:ARG:HG3	2.29	0.47
2:L:627:TYR:CD2	2:L:638:ILE:HG21	2.49	0.47
2:L:690:THR:HB	2:L:881:ASP:HB2	1.97	0.47
3:M:408:HIS:HE1	3:M:457:VAL:CG2	2.27	0.47
5:O:254:SER:O	5:O:255:THR:C	2.55	0.47
6:Q:39:ASN:HB2	6:Q:43:ARG:O	2.15	0.47
1:8:19:MET:HE1	2:C:29:VAL:HG11	1.96	0.46
2:A:267:ILE:O	2:A:267:ILE:CG2	2.60	0.46
2:A:275:VAL:HG22	2:A:275:VAL:O	2.15	0.46
2:A:337:LEU:H	2:A:340:ARG:NH1	2.13	0.46
2:A:384:ASP:OD2	2:A:436:ASN:ND2	2.48	0.46
2:A:528:TYR:OH	2:B:828:ALA:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:624:ASN:O	2:A:625:MET:C	2.54	0.46
2:A:915:ARG:O	2:A:919:SER:HB2	2.15	0.46
2:B:564:MET:HA	2:B:564:MET:CE	2.44	0.46
2:B:779:VAL:HG13	2:B:779:VAL:O	2.15	0.46
2:B:881:ASP:HB3	2:B:882:PRO:HD2	1.97	0.46
2:C:235:ASP:OD1	2:C:260:LEU:N	2.45	0.46
2:C:299:ARG:HH21	2:C:570:LEU:CD1	2.09	0.46
2:C:311:GLY:C	2:C:313:MET:H	2.23	0.46
2:C:314:TYR:CE1	2:C:559:ARG:NE	2.78	0.46
2:C:661:THR:HG22	2:C:680:TYR:HB2	1.96	0.46
2:C:694:VAL:HG13	2:C:716:PHE:HB2	1.96	0.46
2:C:792:LEU:HB3	2:C:793:PRO:HD3	1.97	0.46
2:C:866:LEU:C	2:C:866:LEU:HD12	2.40	0.46
2:D:108:ASP:OD1	2:D:108:ASP:O	2.31	0.46
2:D:447:TYR:CE1	2:E:386:LEU:CD2	2.98	0.46
2:D:487:LEU:HD21	2:D:499:PRO:HB2	1.96	0.46
2:D:510:HIS:CE1	2:D:512:ARG:HB3	2.49	0.46
2:D:518:TYR:O	2:D:518:TYR:CG	2.68	0.46
2:D:678:VAL:O	2:D:678:VAL:HG13	2.16	0.46
2:E:112:SER:O	2:E:301:ASN:CB	2.63	0.46
2:E:312:LEU:HD12	2:E:565:ILE:CB	2.44	0.46
2:E:312:LEU:O	2:E:313:MET:CB	2.62	0.46
2:E:394:GLY:O	2:E:396:SER:N	2.43	0.46
2:E:425:ILE:HD13	2:F:260:LEU:HD21	1.97	0.46
2:E:506:ASN:HA	2:E:686:TYR:CD2	2.49	0.46
2:F:76:THR:O	2:F:560:LYS:HD3	2.14	0.46
2:F:108:ASP:HA	2:F:527:ARG:O	2.15	0.46
2:F:738:TRP:CE3	2:F:741:ILE:HG21	2.50	0.46
2:F:751:TYR:CD2	2:F:853:MET:HE2	2.49	0.46
2:F:792:LEU:N	2:F:793:PRO:HD3	2.08	0.46
2:G:15:ILE:HG13	2:H:896:PHE:CD2	2.51	0.46
2:G:67:ARG:NE	2:G:589:TYR:OH	2.47	0.46
2:G:116:TYR:HA	2:H:380:HIS:O	2.16	0.46
2:G:360:PHE:CD1	2:G:360:PHE:C	2.92	0.46
2:G:851:ASN:ND2	2:G:853:MET:HB2	2.30	0.46
2:H:209:MET:O	2:H:209:MET:CG	2.51	0.46
2:H:223:LYS:NZ	2:H:223:LYS:CB	2.74	0.46
2:H:244:LEU:CD1	2:H:244:LEU:H	2.28	0.46
2:H:271:ASP:OD1	2:H:271:ASP:C	2.58	0.46
2:H:347:GLN:OE1	2:H:682:ASP:HA	2.15	0.46
2:H:787:TYR:CE1	2:H:788:GLN:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:818:ASN:ND2	2:H:818:ASN:O	2.48	0.46
2:H:819:TYR:C	2:H:819:TYR:CD1	2.90	0.46
2:I:548:LEU:HD11	2:I:607:LEU:HD22	1.97	0.46
2:J:107:LEU:O	2:J:107:LEU:HG	2.14	0.46
2:J:124:LEU:HB2	2:K:798:ASN:ND2	2.30	0.46
2:J:444:SER:C	2:J:446:LEU:N	2.69	0.46
2:J:751:TYR:OH	2:L:64:LEU:HD11	2.15	0.46
2:J:845:ARG:C	2:J:846:ILE:HG13	2.40	0.46
2:J:882:PRO:HG2	6:P:49:ASN:O	2.15	0.46
2:K:252:THR:O	2:K:254:ASN:N	2.48	0.46
2:K:261:TYR:CD1	2:K:261:TYR:C	2.93	0.46
2:K:270:PRO:O	2:K:271:ASP:HB2	2.13	0.46
2:K:292:THR:O	2:K:292:THR:OG1	2.12	0.46
2:K:378:GLU:O	2:K:378:GLU:CG	2.63	0.46
2:K:568:SER:OG	2:K:569:SER:N	2.48	0.46
2:K:717:GLU:HB3	2:K:735:THR:OG1	2.15	0.46
2:K:718:ILE:HD11	2:K:738:TRP:CZ2	2.50	0.46
2:L:103:ILE:HA	2:L:586:ILE:HD13	1.96	0.46
2:L:656:LEU:CD1	2:L:661:THR:HG21	2.45	0.46
2:L:797:ASN:OD1	2:L:817:ALA:CB	2.63	0.46
3:M:132:ILE:HG21	3:M:166:LEU:HB2	1.96	0.46
5:O:57:PRO:CG	9:W:9:UNK:HA	2.44	0.46
6:P:20:TYR:HA	6:Q:21:LEU:O	2.15	0.46
7:T:55:LEU:CD1	7:T:200:PRO:HB2	2.43	0.46
7:U:47:ILE:HG13	7:U:48:ARG:N	2.30	0.46
2:A:280:VAL:HG22	2:A:282:GLN:H	1.79	0.46
2:A:497:TRP:CD1	2:A:497:TRP:C	2.91	0.46
2:A:704:TRP:CE3	2:A:704:TRP:CA	2.85	0.46
2:A:820:PRO:O	2:A:820:PRO:CD	2.58	0.46
2:B:153:ASN:O	2:B:154:ILE:C	2.55	0.46
2:B:255:GLU:O	2:B:256:PRO:C	2.57	0.46
2:B:307:ASP:C	2:B:309:PHE:H	2.23	0.46
2:B:715:GLU:HG2	2:B:716:PHE:O	2.15	0.46
2:B:729:VAL:HG22	2:B:730:ALA:N	2.30	0.46
2:B:824:ILE:CG2	2:B:825:GLY:N	2.78	0.46
2:C:104:ARG:CG	2:C:104:ARG:NH1	2.62	0.46
2:C:114:LYS:HD2	2:C:299:ARG:O	2.15	0.46
2:C:154:ILE:HD12	2:C:259:VAL:HB	1.96	0.46
2:C:164:THR:O	2:C:165:ASP:HB3	2.16	0.46
2:C:289:ASP:C	2:C:291:LEU:N	2.73	0.46
2:C:309:PHE:HE1	2:C:364:ASN:CB	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:312:LEU:CD2	2:C:565:ILE:HD13	2.46	0.46
2:C:787:TYR:CD1	2:C:787:TYR:C	2.90	0.46
2:C:819:TYR:CD1	2:C:820:PRO:CB	2.98	0.46
2:C:825:GLY:O	2:C:827:THR:N	2.47	0.46
2:D:196:GLN:O	2:D:197:LYS:C	2.56	0.46
2:D:273:HIS:O	2:D:274:LEU:C	2.58	0.46
2:D:336:ASP:HA	2:D:340:ARG:NH2	2.30	0.46
2:D:390:CYS:HB3	2:D:433:MET:O	2.15	0.46
2:E:131:ASN:O	2:E:132:PRO:C	2.58	0.46
2:E:197:LYS:HZ1	2:E:257:LYS:HG3	1.79	0.46
2:E:244:LEU:CD2	2:E:246:PHE:CE1	2.97	0.46
2:E:446:LEU:O	2:E:450:VAL:HG12	2.15	0.46
2:E:473:THR:OG1	2:E:577:ASP:HB3	2.15	0.46
2:E:749:ILE:H	2:E:749:ILE:HG12	1.51	0.46
2:E:802:VAL:HG22	2:E:803:GLY:N	2.30	0.46
2:E:820:PRO:CD	2:E:820:PRO:O	2.53	0.46
2:E:891:VAL:HG11	2:E:893:PHE:CE1	2.50	0.46
2:F:131:ASN:O	2:F:132:PRO:C	2.54	0.46
2:F:155:ASN:O	2:F:156:LYS:C	2.57	0.46
2:F:162:ILE:HD13	2:F:170:PRO:HB3	1.97	0.46
2:F:341:ASN:HD21	2:F:344:LEU:CB	2.28	0.46
2:F:447:TYR:CD1	2:F:447:TYR:C	2.93	0.46
2:F:573:ASP:HB3	2:F:576:VAL:CG1	2.44	0.46
2:F:629:ILE:HD12	2:F:636:VAL:CG1	2.45	0.46
2:F:714:ASN:O	2:F:714:ASN:OD1	2.33	0.46
2:F:742:GLN:C	2:F:744:LEU:H	2.22	0.46
2:G:142:LYS:HE2	2:G:143:VAL:N	2.30	0.46
2:G:346:TYR:C	2:G:348:LEU:N	2.71	0.46
2:G:351:ASP:HB2	2:G:352:ALA:H	1.49	0.46
2:G:802:VAL:CG1	2:G:803:GLY:N	2.77	0.46
2:G:884:ASP:OD1	2:G:884:ASP:C	2.58	0.46
2:H:181:PRO:HA	2:I:804:TYR:HD2	1.78	0.46
2:H:187:GLN:HB2	2:I:809:MET:SD	2.54	0.46
2:H:203:LEU:CD2	2:H:265:VAL:HG21	2.45	0.46
2:H:358:ARG:HH11	2:H:358:ARG:HG2	1.81	0.46
2:H:371:ASP:O	2:H:374:VAL:N	2.48	0.46
2:H:454:LEU:HD23	2:H:502:MET:CG	2.45	0.46
2:H:630:PRO:HB2	2:H:633:ALA:HB2	1.98	0.46
2:H:636:VAL:O	2:H:636:VAL:HG13	2.14	0.46
2:H:740:LEU:O	2:H:744:LEU:HD23	2.15	0.46
2:I:249:LEU:HD23	2:I:251:SER:H	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:660:GLU:O	2:I:661:THR:OG1	2.28	0.46
2:I:727:TYR:O	2:I:736:LYS:HG3	2.15	0.46
2:I:902:HIS:O	2:I:904:PRO:HD3	2.16	0.46
2:J:104:ARG:O	2:J:104:ARG:HD3	2.14	0.46
2:J:121:TYR:CE2	2:K:822:PRO:HB3	2.51	0.46
2:J:164:THR:HG21	2:J:168:ASN:OD1	2.06	0.46
2:J:172:TYR:HD1	2:J:242:VAL:CB	2.16	0.46
2:J:323:VAL:HA	2:J:332:ASN:OD1	2.15	0.46
2:J:350:LEU:HD12	2:J:356:ARG:NE	2.30	0.46
2:J:841:ARG:HG3	2:J:841:ARG:NH1	2.29	0.46
2:J:845:ARG:HG2	2:J:845:ARG:NH1	2.30	0.46
2:J:863:GLN:HE22	2:L:50:VAL:HB	1.80	0.46
2:K:78:TYR:HB3	2:K:668:PHE:HD2	1.80	0.46
2:K:242:VAL:HG12	2:K:263:GLU:CG	2.41	0.46
2:K:497:TRP:CD1	2:K:776:ARG:HD2	2.50	0.46
2:L:213:TYR:HD1	2:L:214:GLY:H	1.63	0.46
3:M:247:THR:HG23	3:M:267:PHE:H	1.79	0.46
2:A:78:TYR:CB	2:A:668:PHE:HB2	2.45	0.46
2:A:356:ARG:HH21	2:A:367:VAL:HG22	1.80	0.46
2:A:696:ILE:HD13	2:A:716:PHE:CE1	2.51	0.46
2:B:127:LYS:NZ	2:C:384:ASP:O	2.48	0.46
2:B:169:GLN:HB2	2:B:170:PRO:CD	2.42	0.46
2:B:198:VAL:HG23	2:B:257:LYS:HB3	1.97	0.46
2:B:310:ILE:CG2	2:B:347:GLN:HE21	2.28	0.46
2:B:324:LEU:HD21	2:B:547:LEU:HD21	1.97	0.46
2:B:383:GLU:O	2:B:383:GLU:HG3	2.16	0.46
2:B:716:PHE:HE1	2:B:852:PHE:CZ	2.34	0.46
2:B:858:LEU:HD21	2:B:863:GLN:CG	2.45	0.46
2:C:286:SER:O	2:C:287:SER:CB	2.63	0.46
2:C:315:TYR:O	2:C:316:ASN:C	2.56	0.46
2:C:804:TYR:CE1	2:C:805:MET:CG	2.98	0.46
2:D:66:LEU:CD1	2:D:592:PHE:CE2	2.98	0.46
2:D:185:GLN:HE21	2:E:292:THR:HG23	1.79	0.46
2:D:221:ASN:OD1	2:D:221:ASN:C	2.54	0.46
2:D:249:LEU:HA	2:F:402:TYR:CD1	2.41	0.46
2:D:269:ALA:C	2:D:271:ASP:N	2.72	0.46
2:D:335:VAL:O	2:D:335:VAL:CG1	2.63	0.46
2:D:746:HIS:ND1	2:D:767:PHE:HB3	2.28	0.46
2:D:838:LEU:HD12	2:D:838:LEU:HA	1.72	0.46
2:E:58:THR:HG21	2:E:62:GLN:OE1	2.15	0.46
2:E:171:ILE:O	2:E:175:LYS:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:210:LEU:HB3	2:E:211:PRO:HD2	1.96	0.46
2:E:242:VAL:HG22	2:E:263:GLU:HA	1.96	0.46
2:E:702:VAL:O	2:E:703:SER:OG	2.32	0.46
2:E:765:TYR:CD1	2:E:841:ARG:HG2	2.51	0.46
2:E:797:ASN:O	2:E:797:ASN:OD1	2.33	0.46
2:E:914:LEU:HD12	2:E:915:ARG:C	2.40	0.46
2:F:83:ARG:HA	2:F:555:GLU:HB3	1.97	0.46
2:F:105:GLY:C	2:F:106:VAL:CG2	2.88	0.46
2:F:377:ILE:HG12	2:F:499:PRO:HD3	1.97	0.46
2:F:436:ASN:OD1	2:F:439:ALA:CB	2.63	0.46
2:F:471:LYS:HG2	2:F:476:TYR:HE2	1.81	0.46
2:F:513:ASN:O	2:F:517:ARG:HB2	2.14	0.46
2:F:766:SER:OG	2:F:767:PHE:N	2.47	0.46
2:F:821:TYR:O	2:F:823:LEU:N	2.48	0.46
2:G:71:VAL:HB	2:G:83:ARG:O	2.15	0.46
2:G:243:ASN:OD1	2:G:243:ASN:C	2.58	0.46
2:G:389:TYR:CE2	2:H:393:LEU:HD11	2.49	0.46
2:G:581:VAL:HG22	2:G:583:PHE:CE1	2.51	0.46
2:G:604:GLU:HG2	2:G:608:ARG:HH11	1.80	0.46
2:G:729:VAL:CG2	2:G:730:ALA:H	2.27	0.46
2:G:816:PRO:HB2	2:I:217:ALA:HB2	1.98	0.46
2:H:83:ARG:HH11	2:H:83:ARG:HG2	1.79	0.46
2:H:104:ARG:HG3	2:H:104:ARG:HH11	1.80	0.46
2:H:298:ASN:CB	2:H:478:ASN:HD21	2.23	0.46
2:H:506:ASN:OD1	2:H:686:TYR:CE1	2.69	0.46
2:H:593:PHE:O	2:H:595:MET:N	2.43	0.46
2:H:792:LEU:O	2:H:792:LEU:CG	2.63	0.46
2:I:144:ARG:HD2	2:I:291:LEU:CD2	2.44	0.46
2:I:276:TYR:CD1	2:I:277:LYS:N	2.84	0.46
2:I:359:TYR:HB3	2:I:518:TYR:CE2	2.50	0.46
2:I:593:PHE:HD1	2:I:594:PRO:CD	2.26	0.46
2:I:792:LEU:HA	2:I:795:GLN:CD	2.39	0.46
2:I:858:LEU:HD21	2:I:863:GLN:OE1	2.16	0.46
2:J:142:LYS:HD2	2:J:247:PHE:CZ	2.50	0.46
2:J:451:ALA:O	2:J:454:LEU:HG	2.15	0.46
2:J:850:SER:OG	2:J:851:ASN:N	2.48	0.46
2:K:28:LEU:CA	2:L:606:MET:HE2	2.45	0.46
2:K:219:PRO:HB3	2:L:818:ASN:HB2	1.98	0.46
2:K:545:LEU:HD23	2:K:545:LEU:C	2.40	0.46
2:K:618:ASP:O	2:K:621:CYS:HB2	2.15	0.46
2:K:621:CYS:HB3	2:K:649:ARG:HH12	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:770:ASN:ND2	2:K:840:ASP:O	2.48	0.46
5:O:77:THR:O	5:O:78:HIS:C	2.58	0.46
5:O:180:VAL:HG21	5:O:189:TYR:CE2	2.50	0.46
5:O:251:THR:O	5:O:270:ARG:NE	2.45	0.46
5:O:298:THR:HG21	5:O:302:GLU:HG2	1.97	0.46
6:S:28:TRP:CD1	6:S:28:TRP:O	2.68	0.46
7:T:104:SER:O	7:T:105:GLY:C	2.58	0.46
7:U:17:MET:HA	7:U:17:MET:CE	2.45	0.46
1:3:20:GLY:O	1:3:21:THR:C	2.56	0.46
1:4:26:GLY:O	1:4:27:THR:CG2	2.59	0.46
2:A:242:VAL:CG2	2:A:263:GLU:HG2	2.43	0.46
2:A:839:CYS:O	2:A:839:CYS:SG	2.74	0.46
2:A:890:TYR:CD2	2:A:892:LEU:HG	2.50	0.46
2:B:119:THR:HG22	2:B:213:TYR:OH	2.15	0.46
2:B:162:ILE:N	2:B:162:ILE:CD1	2.74	0.46
2:B:222:GLU:OE2	2:C:789:ASN:N	2.45	0.46
2:B:621:CYS:HB2	2:B:897:ASP:CB	2.46	0.46
2:B:694:VAL:CG1	2:B:738:TRP:HZ3	2.20	0.46
2:B:698:PHE:HB3	2:B:702:VAL:HG22	1.97	0.46
2:B:850:SER:C	2:B:852:PHE:N	2.73	0.46
2:B:895:VAL:CG2	2:B:917:PRO:CD	2.80	0.46
2:C:125:ALA:CB	2:C:127:LYS:H	2.27	0.46
2:C:780:ASN:HB2	2:C:831:SER:O	2.15	0.46
2:C:890:TYR:CE1	2:C:892:LEU:CD2	2.98	0.46
2:D:102:ASP:OD1	2:E:736:LYS:NZ	2.42	0.46
2:D:131:ASN:O	2:D:132:PRO:C	2.58	0.46
2:D:406:LYS:CB	2:E:156:LYS:NZ	2.76	0.46
2:D:554:TYR:CE1	2:D:556:TRP:HZ3	2.33	0.46
2:D:819:TYR:O	2:D:820:PRO:C	2.52	0.46
2:D:914:LEU:HG	2:D:922:ASN:OD1	2.16	0.46
2:E:102:ASP:OD1	2:E:532:HIS:CD2	2.68	0.46
2:E:515:GLY:H	2:E:517:ARG:H	1.63	0.46
2:E:649:ARG:NH1	2:E:894:GLU:OE2	2.49	0.46
2:E:660:GLU:HB3	2:E:674:TYR:CD2	2.50	0.46
2:F:588:LEU:HD12	2:F:589:TYR:H	1.79	0.46
2:F:649:ARG:HH11	2:F:894:GLU:HB3	1.80	0.46
2:F:662:PRO:HA	2:F:672:PHE:CE2	2.51	0.46
2:F:688:ASN:HB3	2:F:844:TRP:NE1	2.31	0.46
2:G:67:ARG:CG	2:G:589:TYR:HE1	2.27	0.46
2:G:136:LYS:HD2	2:G:205:ASP:OD2	2.15	0.46
2:G:142:LYS:HB3	2:I:423:ALA:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:171:ILE:O	2:G:175:LYS:HB2	2.15	0.46
2:G:307:ASP:C	2:G:309:PHE:N	2.72	0.46
2:G:389:TYR:OH	2:H:393:LEU:HD11	2.15	0.46
2:G:483:VAL:HG11	2:G:805:MET:HB2	1.97	0.46
2:G:488:ASP:CG	2:G:489:THR:H	2.23	0.46
2:G:798:ASN:HA	2:I:122:ASN:HA	1.97	0.46
2:H:185:GLN:O	2:H:185:GLN:CG	2.62	0.46
2:H:218:LYS:HE3	2:H:218:LYS:HB2	1.77	0.46
2:H:280:VAL:C	2:H:285:ILE:HD11	2.40	0.46
2:H:545:LEU:HG	2:H:547:LEU:HD22	1.95	0.46
2:H:577:ASP:OD1	2:H:578:GLY:N	2.49	0.46
2:H:637:PRO:O	6:P:22:THR:OG1	2.34	0.46
2:I:51:ALA:HB1	2:I:52:PRO:HD2	1.97	0.46
2:I:60:ARG:HH21	2:I:597:HIS:CE1	2.33	0.46
2:I:130:PRO:HG3	2:I:291:LEU:HB3	1.98	0.46
2:I:185:GLN:CD	2:I:185:GLN:N	2.73	0.46
2:I:307:ASP:OD1	2:I:307:ASP:C	2.58	0.46
2:I:851:ASN:OD1	2:I:853:MET:CB	2.62	0.46
2:J:76:THR:HG22	2:J:77:ALA:N	2.30	0.46
2:J:114:LYS:NZ	2:J:298:ASN:HB2	2.30	0.46
2:J:175:LYS:C	2:J:176:THR:HG1	2.18	0.46
2:J:218:LYS:O	2:J:219:PRO:C	2.56	0.46
2:J:375:ARG:HD3	2:J:507:PRO:CG	2.45	0.46
2:J:511:HIS:O	2:J:512:ARG:CG	2.64	0.46
2:J:699:ASP:O	2:J:700:SER:HB3	2.14	0.46
2:J:881:ASP:OD2	6:P:53:LEU:HD11	2.15	0.46
2:K:819:TYR:CD1	2:K:819:TYR:C	2.94	0.46
2:K:908:VAL:O	2:K:908:VAL:HG13	2.14	0.46
2:L:203:LEU:HG	2:L:265:VAL:HG22	1.97	0.46
2:L:351:ASP:OD2	2:L:765:TYR:HD2	1.97	0.46
2:L:490:TYR:CE2	2:L:797:ASN:HB3	2.50	0.46
5:O:39:MET:HB2	5:O:68:ALA:HB1	1.96	0.46
5:O:194:ASP:O	5:O:195:TYR:CD1	2.68	0.46
2:A:313:MET:HE3	2:A:556:TRP:NE1	2.30	0.46
2:A:337:LEU:CD2	2:A:920:ALA:HB3	2.45	0.46
2:A:338:GLN:NE2	2:A:665:GLY:HA2	2.30	0.46
2:A:815:TYR:CD2	2:A:816:PRO:HB2	2.51	0.46
2:B:114:LYS:NZ	2:B:298:ASN:HB2	2.26	0.46
2:B:134:GLU:OE1	2:B:143:VAL:HB	2.16	0.46
2:B:326:GLY:O	2:B:327:GLN:C	2.56	0.46
2:B:362:MET:CE	2:C:754:PHE:HD2	2.02	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:383:GLU:O	2:B:383:GLU:CG	2.64	0.46
2:B:496:ARG:O	2:B:496:ARG:CG	2.63	0.46
2:B:649:ARG:NH2	2:B:894:GLU:OE2	2.49	0.46
2:B:704:TRP:CZ2	2:B:848:PHE:HD1	2.34	0.46
2:B:738:TRP:HE1	2:B:742:GLN:CD	2.22	0.46
2:B:797:ASN:CA	2:B:819:TYR:CE1	2.99	0.46
2:C:115:PRO:O	2:C:302:TYR:CE1	2.69	0.46
2:C:483:VAL:O	2:C:483:VAL:HG13	2.14	0.46
2:C:548:LEU:HD23	2:C:608:ARG:NH2	2.28	0.46
2:D:18:GLN:HB3	2:D:22:GLU:OE1	2.15	0.46
2:D:349:MET:CB	2:D:619:TYR:HD2	2.28	0.46
2:D:574:LEU:HB3	2:D:579:ALA:CB	2.45	0.46
2:D:574:LEU:HA	2:D:577:ASP:HB2	1.97	0.46
2:D:613:ASP:N	2:D:613:ASP:OD1	2.49	0.46
2:D:623:ALA:O	2:D:625:MET:HG2	2.16	0.46
2:D:764:MET:HE3	2:D:841:ARG:NH2	2.30	0.46
2:E:188:TRP:CB	2:E:191:GLU:HB2	2.44	0.46
2:E:400:ASP:HB2	2:E:402:TYR:HE2	1.78	0.46
2:E:729:VAL:CG1	2:E:730:ALA:H	2.14	0.46
2:E:779:VAL:O	2:E:779:VAL:HG23	2.16	0.46
2:E:811:GLU:O	2:E:811:GLU:HG2	2.15	0.46
2:F:96:MET:HE2	2:F:547:LEU:HD22	1.96	0.46
2:F:315:TYR:HB3	2:F:342:THR:CG2	2.46	0.46
2:F:344:LEU:HD11	2:F:683:GLY:HA2	1.98	0.46
2:F:367:VAL:HG23	2:F:367:VAL:O	2.14	0.46
2:F:729:VAL:HG13	2:F:736:LYS:HB3	1.96	0.46
2:F:771:PHE:CD1	2:F:773:PRO:HD3	2.50	0.46
2:G:146:GLN:OE1	2:H:813:GLN:HB3	2.14	0.46
2:G:436:ASN:OD1	2:G:436:ASN:C	2.58	0.46
2:G:634:THR:HG22	2:G:879:GLU:HG2	1.98	0.46
2:H:189:ASN:OD1	2:H:189:ASN:C	2.57	0.46
2:H:278:PRO:CG	2:H:292:THR:HG23	2.46	0.46
2:H:468:PRO:HG2	2:H:475:ALA:HB3	1.97	0.46
2:H:649:ARG:O	2:H:848:PHE:N	2.29	0.46
2:H:810:ARG:HE	2:H:810:ARG:HB2	1.53	0.46
2:H:877:THR:OG1	6:Q:28:TRP:HH2	1.97	0.46
2:I:135:TRP:HB3	2:I:136:LYS:H	1.32	0.46
2:I:149:PHE:CZ	2:I:162:ILE:HB	2.51	0.46
2:I:195:ALA:CB	2:I:197:LYS:HG3	2.46	0.46
2:I:378:GLU:O	2:I:378:GLU:HG3	2.15	0.46
2:I:545:LEU:HD23	2:I:546:LEU:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:771:PHE:O	2:I:772:GLN:NE2	2.48	0.46
2:J:12:TYR:CE1	2:K:900:ARG:NH2	2.84	0.46
2:J:67:ARG:HA	2:J:589:TYR:CD1	2.50	0.46
2:J:70:PRO:HD3	2:J:586:ILE:O	2.15	0.46
2:J:144:ARG:NH2	2:J:144:ARG:CG	2.68	0.46
2:J:310:ILE:HA	2:J:538:LYS:NZ	2.31	0.46
2:J:376:ILE:O	2:J:376:ILE:CG2	2.63	0.46
2:J:404:GLY:C	2:J:412:TRP:HB2	2.40	0.46
2:J:418:TYR:CD1	2:K:247:PHE:HE1	2.33	0.46
2:J:822:PRO:C	2:J:824:ILE:H	2.23	0.46
2:K:116:TYR:CE2	2:L:493:ILE:HG13	2.50	0.46
2:K:316:ASN:OD1	2:K:340:ARG:O	2.34	0.46
2:K:525:ASN:HD22	2:L:495:ALA:CB	2.28	0.46
2:K:565:ILE:HG23	2:K:566:LEU:CD2	2.45	0.46
2:K:747:TYR:CE2	2:K:757:PRO:HG3	2.50	0.46
2:L:13:MET:HE2	2:L:13:MET:CA	2.46	0.46
2:L:154:ILE:O	2:L:154:ILE:HD12	2.15	0.46
2:L:192:VAL:O	2:L:192:VAL:HG23	2.16	0.46
2:L:329:SER:O	2:L:331:LEU:N	2.47	0.46
2:L:347:GLN:NE2	2:L:681:LEU:O	2.48	0.46
2:L:550:GLY:HA2	2:L:906:ARG:NH1	2.30	0.46
2:L:864:ASN:OD1	2:L:865:MET:N	2.48	0.46
3:M:73:LYS:HE3	3:M:81:ASN:CB	2.44	0.46
3:M:119:ALA:HB1	3:M:498:VAL:CG1	2.46	0.46
3:M:235:ASP:CG	3:M:344:PHE:HB2	2.40	0.46
3:M:330:LEU:CD2	3:M:331:LEU:O	2.57	0.46
3:M:423:ILE:HG22	3:M:423:ILE:O	2.15	0.46
3:M:488:CYS:HB3	3:M:491:VAL:HG23	1.97	0.46
5:O:125:LEU:O	5:O:125:LEU:HD12	2.15	0.46
5:O:197:PHE:N	5:O:197:PHE:HD1	2.14	0.46
5:O:222:VAL:HG23	5:O:260:SER:OG	2.16	0.46
5:O:258:ARG:O	5:O:259:ASP:C	2.51	0.46
6:P:41:ASP:OD1	6:P:41:ASP:C	2.59	0.46
6:Q:34:ASN:HA	6:Q:47:PRO:CB	2.41	0.46
7:U:91:LEU:HD23	7:U:91:LEU:HA	1.72	0.46
7:U:207:PHE:O	7:U:214:TYR:HE1	1.99	0.46
2:A:107:LEU:HD23	2:A:107:LEU:C	2.41	0.46
2:A:121:TYR:O	2:A:122:ASN:C	2.58	0.46
2:A:335:VAL:CA	2:A:913:TYR:HE2	2.28	0.46
2:A:538:LYS:O	2:A:539:PHE:C	2.52	0.46
2:A:539:PHE:C	2:A:539:PHE:CD1	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:645:TRP:HH2	2:A:874:LEU:HD23	1.71	0.46
2:B:186:THR:HG22	2:C:276:TYR:OH	2.15	0.46
2:C:328:ALA:O	2:C:329:SER:CB	2.61	0.46
2:C:383:GLU:HB3	2:C:384:ASP:H	1.31	0.46
2:C:447:TYR:CD1	2:C:447:TYR:C	2.94	0.46
2:D:82:VAL:O	2:D:555:GLU:HG3	2.14	0.46
2:D:130:PRO:O	2:D:130:PRO:CG	2.56	0.46
2:D:195:ALA:O	2:D:197:LYS:N	2.48	0.46
2:D:219:PRO:HA	2:D:225:GLY:HA3	1.98	0.46
2:D:298:ASN:HA	2:D:478:ASN:HD21	1.80	0.46
2:D:313:MET:HE2	2:D:313:MET:HB3	1.79	0.46
2:D:549:PRO:HD2	2:D:604:GLU:HG3	1.96	0.46
2:D:563:ASN:ND2	2:D:574:LEU:H	2.14	0.46
2:D:591:ASN:OD1	2:E:740:LEU:CD1	2.64	0.46
2:D:711:LEU:O	2:D:713:PRO:HD3	2.14	0.46
2:D:914:LEU:HD13	2:F:13:MET:CE	2.40	0.46
2:E:83:ARG:HG2	2:E:83:ARG:NH1	2.27	0.46
2:E:522:LEU:CD2	2:F:731:GLN:HB2	2.43	0.46
2:E:636:VAL:HG12	2:E:878:PHE:HB2	1.95	0.46
2:E:640:ILE:HG23	2:E:874:LEU:H	1.80	0.46
2:E:681:LEU:HD23	2:E:681:LEU:H	1.81	0.46
2:E:851:ASN:HB3	2:E:853:MET:HG3	1.97	0.46
2:F:205:ASP:OD1	2:F:205:ASP:C	2.55	0.46
2:F:649:ARG:O	2:F:848:PHE:HB3	2.16	0.46
2:F:711:LEU:HD22	2:F:727:TYR:CE1	2.50	0.46
2:G:267:ILE:HD12	2:G:268:GLU:N	2.30	0.46
2:G:324:LEU:CD1	2:G:554:TYR:HD2	2.29	0.46
2:G:459:LYS:O	2:G:480:ARG:NH2	2.48	0.46
2:G:466:THR:O	2:G:467:LEU:HD22	2.15	0.46
2:G:500:ASP:OD1	2:G:501:PRO:HD3	2.16	0.46
2:G:914:LEU:CG	2:G:915:ARG:H	2.29	0.46
2:H:290:LEU:HB3	2:H:293:GLN:NE2	2.31	0.46
2:H:490:TYR:CD2	2:H:797:ASN:ND2	2.83	0.46
2:H:515:GLY:C	2:H:519:ARG:HE	2.24	0.46
2:H:643:ARG:HH21	2:H:919:SER:N	2.13	0.46
2:H:657:LYS:O	2:H:660:GLU:HG2	2.15	0.46
2:H:765:TYR:CE1	2:H:841:ARG:HD2	2.50	0.46
2:I:154:ILE:HD12	2:I:259:VAL:HG11	1.98	0.46
2:I:161:GLN:HA	2:I:169:GLN:HA	1.98	0.46
2:I:344:LEU:HD23	2:I:344:LEU:C	2.41	0.46
2:I:405:ILE:CG2	2:I:406:LYS:H	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:443:ARG:HG2	2:I:443:ARG:HH21	1.81	0.46
2:I:511:HIS:ND1	2:I:512:ARG:HG2	2.29	0.46
2:I:539:PHE:O	2:I:543:LYS:HB2	2.16	0.46
2:I:656:LEU:HD23	2:I:656:LEU:N	2.30	0.46
2:I:658:THR:CB	2:I:886:PRO:HB2	2.41	0.46
2:J:57:THR:O	2:J:57:THR:HG23	2.14	0.46
2:J:62:GLN:HB3	2:K:709:ARG:NH1	2.31	0.46
2:J:244:LEU:N	2:J:244:LEU:HD12	2.30	0.46
2:J:394:GLY:O	2:J:395:GLY:C	2.58	0.46
2:J:490:TYR:HD2	2:J:820:PRO:HG3	1.81	0.46
2:J:809:MET:SD	2:L:187:GLN:CB	3.03	0.46
2:K:219:PRO:O	2:L:788:GLN:NE2	2.48	0.46
2:K:272:THR:HG23	2:K:296:ALA:O	2.16	0.46
2:K:400:ASP:O	2:L:144:ARG:NH1	2.42	0.46
2:K:401:THR:HG21	2:K:418:TYR:CD2	2.51	0.46
2:L:539:PHE:HE1	2:L:541:ALA:HB3	1.80	0.46
3:M:265:GLU:OE2	3:M:265:GLU:HA	2.14	0.46
3:M:391:SER:OG	3:M:396:ASN:C	2.58	0.46
6:Q:10:VAL:O	6:Q:10:VAL:HG13	2.15	0.46
6:R:32:ARG:HG3	6:R:32:ARG:NH2	2.11	0.46
2:A:56:VAL:O	2:A:57:THR:HB	2.15	0.46
2:A:341:ASN:OD1	2:A:341:ASN:O	2.34	0.46
2:A:527:ARG:HD3	2:A:528:TYR:CZ	2.49	0.46
2:B:81:LYS:O	2:B:81:LYS:HG3	2.14	0.46
2:B:182:GLN:HB3	2:B:185:GLN:CB	2.45	0.46
2:B:593:PHE:CE1	2:C:853:MET:HE1	2.47	0.46
2:B:711:LEU:HD22	2:B:737:ASP:HB2	1.97	0.46
2:C:207:THR:O	2:C:207:THR:OG1	2.32	0.46
2:C:208:PRO:O	2:C:210:LEU:N	2.49	0.46
2:C:279:ASP:N	2:C:464:ASN:HD22	2.12	0.46
2:C:768:PHE:C	2:C:770:ASN:N	2.71	0.46
2:D:103:ILE:HG22	2:D:104:ARG:H	1.80	0.46
2:D:113:PHE:CZ	2:D:115:PRO:HB3	2.51	0.46
2:D:220:THR:O	2:D:221:ASN:HB3	2.16	0.46
2:D:320:ASN:HB3	2:D:557:ASN:CB	2.44	0.46
2:D:335:VAL:H	2:D:913:TYR:HE2	1.64	0.46
2:D:377:ILE:HD11	2:D:446:LEU:HD12	1.97	0.46
2:D:386:LEU:CD1	2:F:447:TYR:CG	2.95	0.46
2:D:433:MET:HG2	2:E:433:MET:CE	2.46	0.46
2:D:433:MET:CE	2:E:391:PHE:C	2.89	0.46
2:D:738:TRP:NE1	2:D:844:TRP:CE3	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:865:MET:HE1	2:F:4:PRO:HA	1.98	0.46
2:E:136:LYS:CG	2:E:137:ASP:N	2.75	0.46
2:E:143:VAL:HB	2:E:144:ARG:HD2	1.97	0.46
2:E:160:ILE:HG13	2:E:199:ALA:HB3	1.97	0.46
2:E:364:ASN:OD1	2:E:519:ARG:CG	2.61	0.46
2:E:399:THR:OG1	2:E:425:ILE:O	2.34	0.46
2:E:452:LEU:HA	2:E:482:ALA:CB	2.46	0.46
2:E:498:SER:H	2:E:774:MET:CE	2.16	0.46
2:E:627:TYR:CE2	2:E:638:ILE:HB	2.50	0.46
2:E:874:LEU:CD2	2:E:876:MET:HE3	2.45	0.46
2:F:57:THR:C	2:F:596:ALA:HB2	2.41	0.46
2:F:363:TRP:O	2:F:364:ASN:C	2.58	0.46
2:F:729:VAL:HG13	2:F:736:LYS:CA	2.42	0.46
2:G:246:PHE:HD2	2:I:412:TRP:CE2	2.34	0.46
2:G:291:LEU:HD22	2:I:188:TRP:CD1	2.51	0.46
2:G:396:SER:O	2:G:397:ALA:C	2.58	0.46
2:G:474:TYR:HB2	2:G:572:ASN:HD21	1.80	0.46
2:H:13:MET:HG2	2:I:914:LEU:HD13	1.97	0.46
2:H:157:ASP:CG	2:H:158:ASN:H	2.23	0.46
2:H:158:ASN:N	2:H:158:ASN:ND2	2.59	0.46
2:H:190:SER:O	2:H:191:GLU:HB3	2.15	0.46
2:H:379:ASN:ND2	2:H:493:ILE:HD12	2.30	0.46
2:I:158:ASN:OD1	2:I:169:GLN:CG	2.63	0.46
2:I:175:LYS:O	2:I:176:THR:OG1	2.29	0.46
2:I:335:VAL:N	2:I:913:TYR:HE2	2.14	0.46
2:I:413:THR:HG22	2:I:414:ALA:N	2.30	0.46
2:I:845:ARG:C	2:I:846:ILE:HG13	2.41	0.46
2:J:56:VAL:O	2:J:595:MET:HA	2.16	0.46
2:J:107:LEU:HD13	2:J:305:PHE:CE1	2.41	0.46
2:J:380:HIS:CD2	2:L:521:MET:SD	3.09	0.46
2:J:442:TRP:O	2:J:443:ARG:C	2.59	0.46
2:J:530:PRO:HD2	2:K:833:THR:HG23	1.98	0.46
2:K:331:LEU:HD22	7:T:34:LEU:O	2.16	0.46
2:K:896:PHE:HB2	2:K:916:THR:OG1	2.14	0.46
2:L:41:LEU:HD12	2:L:41:LEU:N	2.31	0.46
2:L:349:MET:O	2:L:349:MET:HG2	2.15	0.46
2:L:356:ARG:O	2:L:356:ARG:HG3	2.16	0.46
2:L:513:ASN:ND2	2:L:516:LEU:HB2	2.31	0.46
2:L:513:ASN:HD22	2:L:516:LEU:CB	2.28	0.46
2:L:784:TYR:HE2	2:L:829:VAL:CG1	2.28	0.46
3:M:223:MET:N	3:M:224:PRO:CD	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:488:CYS:HB3	3:M:491:VAL:CG2	2.45	0.46
5:O:39:MET:O	5:O:39:MET:HG3	2.15	0.46
5:O:222:VAL:O	5:O:260:SER:HB3	2.15	0.46
2:A:44:LYS:HE3	2:B:544:ASN:O	2.16	0.46
2:A:101:PHE:HB2	2:A:535:VAL:CG2	2.44	0.46
2:A:709:ARG:HH11	2:A:709:ARG:CG	2.28	0.46
2:A:746:HIS:CE1	2:A:767:PHE:HB2	2.51	0.46
2:A:792:LEU:HG	2:A:793:PRO:HD3	1.98	0.46
2:B:90:ASP:OD1	2:B:91:ASN:OD1	2.34	0.46
2:B:126:PRO:HD2	2:C:801:PHE:CE2	2.51	0.46
2:B:670:PRO:HB2	2:B:671:TYR:H	1.36	0.46
2:C:186:THR:O	2:C:186:THR:CG2	2.63	0.46
2:C:452:LEU:C	2:C:454:LEU:H	2.23	0.46
2:C:503:ASP:CG	2:C:836:LYS:NZ	2.74	0.46
2:D:116:TYR:CD1	2:D:116:TYR:N	2.82	0.46
2:D:116:TYR:CB	2:E:493:ILE:HG22	2.44	0.46
2:D:207:THR:O	2:D:208:PRO:C	2.57	0.46
2:E:103:ILE:HD11	2:E:535:VAL:HG11	1.98	0.46
2:E:130:PRO:O	2:E:131:ASN:C	2.58	0.46
2:E:564:MET:HG2	2:E:564:MET:O	2.16	0.46
2:E:735:THR:C	2:E:737:ASP:N	2.72	0.46
2:F:161:GLN:OE1	2:F:167:THR:HA	2.15	0.46
2:F:164:THR:HB	2:F:165:ASP:H	1.33	0.46
2:F:175:LYS:CB	2:F:175:LYS:HZ2	2.22	0.46
2:F:180:GLU:OE2	2:F:181:PRO:N	2.47	0.46
2:F:483:VAL:CG1	2:F:486:ALA:HB2	2.46	0.46
2:F:784:TYR:HE1	2:F:786:GLU:HB2	1.75	0.46
2:F:848:PHE:O	2:F:859:THR:HG21	2.16	0.46
2:G:188:TRP:HB3	2:G:189:ASN:H	1.46	0.46
2:G:195:ALA:N	2:G:196:GLN:OE1	2.49	0.46
2:G:272:THR:O	2:G:298:ASN:ND2	2.49	0.46
2:G:430:ILE:CD1	2:I:801:PHE:CD1	2.99	0.46
2:G:622:ALA:O	2:G:915:ARG:NH2	2.49	0.46
2:G:810:ARG:C	2:G:810:ARG:CD	2.88	0.46
2:H:155:ASN:O	2:H:157:ASP:N	2.49	0.46
2:H:282:GLN:CD	2:H:285:ILE:HG23	2.40	0.46
2:H:305:PHE:CD1	2:H:523:LEU:HD11	2.50	0.46
2:H:316:ASN:N	2:H:336:ASP:OD2	2.45	0.46
2:H:334:VAL:O	2:H:334:VAL:CG1	2.63	0.46
2:H:498:SER:OG	2:H:838:LEU:HD21	2.16	0.46
2:H:734:MET:HG2	2:H:735:THR:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:379:ASN:HA	2:I:442:TRP:CZ2	2.51	0.46
2:I:498:SER:CB	2:I:838:LEU:HD11	2.46	0.46
2:I:511:HIS:CE1	2:I:512:ARG:HG2	2.50	0.46
2:I:684:THR:O	2:I:684:THR:CG2	2.63	0.46
2:J:125:ALA:CB	2:J:126:PRO:CD	2.89	0.46
2:J:407:ALA:O	2:J:409:GLY:N	2.47	0.46
2:J:503:ASP:OD1	2:J:503:ASP:C	2.59	0.46
2:J:622:ALA:O	2:J:624:ASN:ND2	2.48	0.46
2:K:65:THR:HG21	2:L:711:LEU:HD11	1.97	0.46
2:K:226:GLN:HE22	2:L:796:HIS:HE1	1.63	0.46
2:K:297:PRO:HD2	2:K:297:PRO:O	2.15	0.46
2:K:308:ASN:HD21	2:K:350:LEU:CD1	2.29	0.46
2:L:80:TYR:O	2:L:557:ASN:HA	2.16	0.46
2:L:183:VAL:O	2:L:183:VAL:CG1	2.64	0.46
2:L:662:PRO:HD3	2:L:672:PHE:CE2	2.51	0.46
3:M:480:ILE:HD11	3:M:494:ALA:HB1	1.97	0.46
4:N:180:ARG:O	4:N:181:GLN:C	2.58	0.46
5:O:57:PRO:HD3	9:W:9:UNK:C	2.45	0.46
6:S:26:PRO:HG2	6:S:31:VAL:HG11	1.98	0.46
7:T:106:ALA:O	7:T:107:GLN:C	2.57	0.46
7:U:10:MET:SD	7:U:200:PRO:HB3	2.55	0.46
1:5:18:PHE:N	1:5:18:PHE:HD1	2.14	0.46
1:5:22:TRP:HE1	2:D:49:THR:HB	1.81	0.46
2:A:73:ARG:HG3	2:A:82:VAL:HG12	1.96	0.46
2:A:121:TYR:N	2:A:121:TYR:CD1	2.84	0.46
2:A:291:LEU:O	2:A:293:GLN:N	2.49	0.46
2:A:323:VAL:HA	2:A:332:ASN:OD1	2.16	0.46
2:A:331:LEU:O	2:A:331:LEU:CD2	2.64	0.46
2:A:626:LEU:O	2:A:627:TYR:CG	2.69	0.46
2:A:686:TYR:C	2:A:687:LEU:HD23	2.41	0.46
2:A:822:PRO:HD2	2:C:216:TYR:CE2	2.51	0.46
2:B:58:THR:CG2	2:B:597:HIS:HD2	2.26	0.46
2:B:653:PHE:O	2:B:654:THR:CB	2.63	0.46
2:B:662:PRO:HG3	2:B:681:LEU:CD2	2.35	0.46
2:B:691:PHE:O	2:B:718:ILE:HG22	2.16	0.46
2:C:467:LEU:HD22	2:C:476:TYR:HD1	1.81	0.46
2:C:796:HIS:CE1	2:C:817:ALA:HA	2.51	0.46
2:C:888:LEU:C	2:C:888:LEU:HD23	2.40	0.46
2:D:123:SER:O	2:D:124:LEU:C	2.53	0.46
2:D:126:PRO:CA	2:E:434:GLU:OE2	2.63	0.46
2:D:139:ASN:HB3	2:D:142:LYS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:177:TYR:CD1	2:E:813:GLN:HB3	2.51	0.46
2:D:225:GLY:O	2:D:226:GLN:HB2	2.16	0.46
2:D:504:ASN:CG	2:D:687:LEU:HD22	2.41	0.46
2:D:690:THR:OG1	2:D:881:ASP:HB2	2.15	0.46
2:E:49:THR:HG22	2:F:856:GLY:HA2	1.98	0.46
2:E:137:ASP:OD1	2:E:137:ASP:N	2.45	0.46
2:E:462:PRO:CG	2:E:465:ILE:HD11	2.45	0.46
2:E:678:VAL:HG22	2:E:682:ASP:HB2	1.97	0.46
2:F:95:ASP:OD1	2:F:95:ASP:C	2.58	0.46
2:F:119:THR:HG21	2:F:213:TYR:CE1	2.51	0.46
2:F:382:VAL:C	2:F:384:ASP:H	2.24	0.46
2:F:392:PRO:O	2:F:393:LEU:C	2.59	0.46
2:F:393:LEU:HD23	2:F:393:LEU:N	2.30	0.46
2:F:399:THR:OG1	2:F:400:ASP:N	2.46	0.46
2:F:506:ASN:HB3	2:F:686:TYR:CD2	2.50	0.46
2:F:539:PHE:CE1	2:F:541:ALA:HB3	2.51	0.46
2:F:654:THR:CG2	2:F:685:PHE:HB3	2.45	0.46
2:G:28:LEU:HD23	2:H:612:ASN:OD1	2.14	0.46
2:G:540:PHE:CD1	2:G:618:ASP:HB2	2.50	0.46
2:G:710:LEU:HD11	2:G:716:PHE:CG	2.51	0.46
2:G:858:LEU:C	2:G:858:LEU:HD23	2.41	0.46
2:G:923:ALA:O	2:G:924:THR:C	2.59	0.46
2:H:121:TYR:CE1	2:I:820:PRO:CB	2.99	0.46
2:H:203:LEU:CD2	2:H:265:VAL:CG2	2.93	0.46
2:H:289:ASP:C	2:H:291:LEU:N	2.70	0.46
2:H:291:LEU:N	2:H:291:LEU:CD1	2.78	0.46
2:H:689:HIS:HB2	2:H:837:PHE:CE1	2.51	0.46
2:H:858:LEU:HD23	2:H:858:LEU:C	2.40	0.46
2:I:88:VAL:HG11	2:I:547:LEU:CD1	2.42	0.46
2:I:347:GLN:HE22	2:I:682:ASP:C	2.24	0.46
2:I:432:ALA:C	2:I:433:MET:HG3	2.41	0.46
2:I:565:ILE:HG13	2:I:566:LEU:N	2.29	0.46
2:I:626:LEU:C	2:I:627:TYR:HD1	2.24	0.46
2:I:661:THR:OG1	2:I:661:THR:O	2.29	0.46
2:I:734:MET:HE2	2:I:738:TRP:CD1	2.50	0.46
2:I:837:PHE:O	2:I:837:PHE:CG	2.68	0.46
2:J:306:ARG:HH12	2:J:567:GLN:CB	2.29	0.46
2:J:321:MET:HB2	2:J:322:GLY:H	1.53	0.46
2:J:384:ASP:C	2:J:385:GLU:HG2	2.40	0.46
2:J:405:ILE:HD11	2:J:410:GLN:HB3	1.97	0.46
2:J:417:ASN:O	2:J:418:TYR:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:758:GLU:HG3	2:J:760:TYR:HD2	1.81	0.46
2:J:833:THR:OG1	6:P:57:THR:O	2.34	0.46
2:J:865:MET:HB3	2:J:865:MET:HE2	1.22	0.46
2:K:113:PHE:CE1	2:K:115:PRO:HB3	2.51	0.46
2:K:349:MET:HA	2:K:619:TYR:CD2	2.51	0.46
2:K:351:ASP:OD2	2:K:764:MET:HB2	2.15	0.46
2:K:640:ILE:HG22	2:K:643:ARG:HH12	1.81	0.46
2:K:739:PHE:C	2:K:739:PHE:CD1	2.93	0.46
2:L:121:TYR:CE1	2:L:216:TYR:CD1	3.03	0.46
2:L:193:GLY:O	2:L:196:GLN:HB2	2.15	0.46
2:L:900:ARG:HB3	2:L:912:VAL:HB	1.98	0.46
3:M:226:VAL:CG1	3:M:227:TYR:N	2.78	0.46
6:Q:17:PHE:O	6:Q:18:SER:CB	2.63	0.46
7:T:5:ILE:O	7:T:5:ILE:CG2	2.51	0.46
7:T:64:THR:O	7:T:66:ARG:CG	2.62	0.46
7:U:178:GLN:HG2	7:U:179:SER:N	2.31	0.46
2:A:82:VAL:O	2:A:555:GLU:HA	2.16	0.46
2:A:375:ARG:HE	2:A:507:PRO:HB3	1.81	0.46
2:A:693:LYS:HE2	2:A:715:GLU:CD	2.41	0.46
2:A:788:GLN:NE2	2:C:220:THR:C	2.67	0.46
2:B:206:THR:OG1	2:B:207:THR:N	2.40	0.46
2:B:518:TYR:CZ	2:B:522:LEU:HD22	2.51	0.46
2:B:645:TRP:HZ3	2:B:648:PHE:CD1	2.34	0.46
2:B:658:THR:C	2:B:660:GLU:N	2.73	0.46
2:B:712:THR:HG23	2:B:715:GLU:O	2.16	0.46
2:C:32:ALA:C	2:C:34:ALA:N	2.73	0.46
2:C:306:ARG:HH22	2:C:678:VAL:HG23	1.81	0.46
2:C:391:PHE:HA	2:C:392:PRO:HD2	1.64	0.46
2:C:563:ASN:ND2	2:C:675:SER:HB3	2.31	0.46
2:C:914:LEU:HD23	2:C:914:LEU:C	2.40	0.46
2:D:13:MET:SD	2:E:914:LEU:HB3	2.56	0.46
2:D:299:ARG:H	2:D:478:ASN:ND2	2.14	0.46
2:D:349:MET:HE3	2:D:349:MET:HB3	1.63	0.46
2:D:377:ILE:HG23	2:D:377:ILE:O	2.15	0.46
2:D:388:ASN:ND2	2:D:437:LEU:HB2	2.27	0.46
2:D:395:GLY:O	2:D:396:SER:HB2	2.15	0.46
2:D:546:LEU:HD11	2:F:41:LEU:CD1	2.37	0.46
2:D:626:LEU:HD13	2:D:888:LEU:HD12	1.98	0.46
2:D:912:VAL:HG22	2:D:924:THR:HG22	1.98	0.46
2:E:103:ILE:HD13	2:E:312:LEU:CD2	2.46	0.46
2:E:107:LEU:HD23	2:E:107:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:188:TRP:CD1	2:F:809:MET:HE2	2.51	0.46
2:E:521:MET:HG2	2:F:494:GLY:O	2.15	0.46
2:E:522:LEU:HD23	2:E:522:LEU:C	2.40	0.46
2:E:662:PRO:HG2	2:E:680:TYR:HD2	1.81	0.46
2:E:730:ALA:HB3	2:E:732:CYS:H	1.79	0.46
2:F:28:LEU:O	2:F:28:LEU:HD12	2.16	0.46
2:F:273:HIS:HD2	2:F:478:ASN:OD1	1.97	0.46
2:G:94:LEU:O	2:G:95:ASP:C	2.56	0.46
2:G:140:LYS:HE2	2:I:419:ALA:N	2.30	0.46
2:G:356:ARG:C	2:G:358:ARG:H	2.25	0.46
2:G:430:ILE:CD1	2:I:801:PHE:CE1	2.98	0.46
2:G:442:TRP:HE1	2:G:489:THR:HA	1.81	0.46
2:G:704:TRP:CD1	2:G:704:TRP:C	2.93	0.46
2:H:390:CYS:HG	2:I:390:CYS:HG	1.63	0.46
2:H:593:PHE:HD1	2:H:594:PRO:CD	2.27	0.46
2:H:738:TRP:C	2:H:740:LEU:H	2.23	0.46
2:H:904:PRO:HG2	2:H:908:VAL:CG1	2.46	0.46
2:H:917:PRO:C	2:H:918:PHE:HD1	2.24	0.46
2:I:76:THR:HG22	2:I:77:ALA:H	1.80	0.46
2:J:35:THR:O	2:J:35:THR:CG2	2.63	0.46
2:J:56:VAL:HG13	2:J:57:THR:N	2.30	0.46
2:J:96:MET:HG2	2:J:547:LEU:HD13	1.96	0.46
2:J:125:ALA:HA	2:K:801:PHE:CE2	2.51	0.46
2:J:216:TYR:OH	2:J:219:PRO:HD3	2.16	0.46
2:J:456:ASP:O	2:J:457:SER:HB3	2.16	0.46
2:J:515:GLY:O	2:J:519:ARG:NE	2.49	0.46
2:J:647:ALA:HB3	2:J:916:THR:CG2	2.43	0.46
2:J:663:SER:OG	2:J:669:ASP:OD2	2.34	0.46
2:K:85:THR:O	2:K:85:THR:OG1	2.31	0.46
2:K:96:MET:HE1	2:K:554:TYR:CZ	2.51	0.46
2:K:137:ASP:N	2:K:139:ASN:O	2.49	0.46
2:K:488:ASP:OD1	2:K:488:ASP:C	2.59	0.46
2:K:584:ASP:OD1	2:K:584:ASP:C	2.59	0.46
2:L:9:GLN:HB3	4:N:175:LEU:CD1	2.47	0.46
2:L:65:THR:O	2:L:65:THR:OG1	2.29	0.46
2:L:148:PRO:HD3	2:L:200:GLY:HA3	1.98	0.46
2:L:218:LYS:HA	2:L:219:PRO:HD2	1.74	0.46
2:L:276:TYR:O	2:L:278:PRO:HD3	2.16	0.46
2:L:492:ASN:HD21	2:L:497:TRP:CD1	2.35	0.46
2:L:711:LEU:CD2	2:L:727:TYR:HE1	2.10	0.46
3:M:421:GLN:HG2	3:M:421:GLN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:259:ASP:O	5:O:260:SER:C	2.59	0.46
6:P:5:MET:HE3	6:R:34:ASN:OD1	2.15	0.46
7:T:13:TYR:HB2	7:T:194:PHE:HE2	1.81	0.46
7:U:13:TYR:CD1	7:U:194:PHE:CD2	3.04	0.46
7:U:59:ALA:HB2	7:U:199:VAL:CG2	2.46	0.46
1:8:11:PRO:HA	2:A:619:TYR:O	2.15	0.45
2:A:83:ARG:CG	2:A:555:GLU:HB2	2.46	0.45
2:A:900:ARG:HB3	2:A:912:VAL:CG1	2.46	0.45
2:B:83:ARG:HH11	2:B:83:ARG:HG2	1.81	0.45
2:B:194:ALA:H	2:B:196:GLN:HG3	1.81	0.45
2:B:345:SER:O	2:B:348:LEU:N	2.38	0.45
2:B:512:ARG:HG3	2:B:512:ARG:HH11	1.81	0.45
2:B:658:THR:OG1	2:B:886:PRO:HB2	2.16	0.45
2:B:701:SER:OG	2:B:701:SER:O	2.31	0.45
2:C:156:LYS:O	2:C:158:ASN:HB2	2.16	0.45
2:C:158:ASN:HB3	2:C:169:GLN:CB	2.45	0.45
2:C:294:GLN:HB3	2:C:295:ALA:H	1.36	0.45
2:C:534:GLN:N	2:C:534:GLN:CD	2.74	0.45
2:C:710:LEU:HD23	2:C:711:LEU:O	2.17	0.45
2:C:764:MET:CE	2:C:841:ARG:HH12	2.28	0.45
2:C:899:VAL:HG21	2:C:913:TYR:CE1	2.50	0.45
2:D:158:ASN:HD22	2:D:158:ASN:C	2.22	0.45
2:D:254:ASN:HD21	2:F:408:ASN:H	1.63	0.45
2:D:257:LYS:O	2:D:257:LYS:CE	2.64	0.45
2:D:502:MET:O	2:D:502:MET:HG3	2.16	0.45
2:D:527:ARG:O	2:D:528:TYR:HB2	2.16	0.45
2:D:706:GLY:C	2:D:708:ASP:H	2.24	0.45
2:E:643:ARG:HH21	2:E:919:SER:H	1.64	0.45
2:E:655:ARG:HD3	2:E:690:THR:HG21	1.98	0.45
2:E:685:PHE:O	2:E:840:ASP:HB2	2.16	0.45
2:E:710:LEU:CD2	2:E:716:PHE:HA	2.38	0.45
2:E:771:PHE:O	2:E:773:PRO:HD3	2.16	0.45
2:F:164:THR:OG1	2:F:168:ASN:HB2	2.16	0.45
2:F:184:GLY:HA2	2:F:187:GLN:CD	2.41	0.45
2:F:206:THR:CG2	2:F:264:ASN:HD21	2.29	0.45
2:G:107:LEU:CD1	2:G:305:PHE:HE1	2.29	0.45
2:G:299:ARG:HA	2:G:300:PRO:HD2	1.60	0.45
2:G:311:GLY:C	2:G:313:MET:N	2.75	0.45
2:G:386:LEU:HD22	2:I:443:ARG:NH2	2.31	0.45
2:G:491:VAL:HG22	2:G:492:ASN:ND2	2.31	0.45
2:G:653:PHE:CZ	2:G:846:ILE:HD12	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:63:ARG:HA	2:H:63:ARG:HD2	1.70	0.45
2:H:356:ARG:HH21	2:H:367:VAL:HB	1.82	0.45
2:H:573:ASP:OD1	2:H:573:ASP:C	2.59	0.45
2:I:196:GLN:O	2:I:196:GLN:HG3	2.16	0.45
2:I:274:LEU:HD23	2:I:293:GLN:HG2	1.98	0.45
2:I:384:ASP:C	2:I:384:ASP:OD1	2.59	0.45
2:I:869:ASN:O	2:I:869:ASN:OD1	2.34	0.45
2:J:313:MET:HE2	2:J:556:TRP:CG	2.51	0.45
2:J:350:LEU:HB2	2:J:356:ARG:HE	1.82	0.45
2:J:527:ARG:CG	2:K:824:ILE:HA	2.46	0.45
2:J:593:PHE:CD2	2:J:595:MET:HG3	2.51	0.45
2:K:299:ARG:CB	2:K:300:PRO:HD3	2.09	0.45
2:K:414:ALA:C	2:K:416:ASP:H	2.25	0.45
2:K:522:LEU:C	2:K:522:LEU:HD12	2.41	0.45
2:K:643:ARG:NH1	2:K:643:ARG:CB	2.78	0.45
2:K:704:TRP:HE1	2:K:861:LEU:CD2	2.28	0.45
2:L:67:ARG:HD2	2:L:589:TYR:CE1	2.48	0.45
2:L:73:ARG:HD2	2:L:80:TYR:OH	2.16	0.45
2:L:110:GLY:HA3	2:L:578:GLY:O	2.16	0.45
2:L:135:TRP:CB	2:L:287:SER:HB3	2.46	0.45
2:L:142:LYS:O	2:L:144:ARG:N	2.48	0.45
2:L:209:MET:HB2	2:L:209:MET:HE2	1.69	0.45
2:L:655:ARG:CZ	2:L:887:THR:HG21	2.46	0.45
5:O:53:PHE:HZ	5:O:64:ALA:HB3	1.81	0.45
5:O:208:ASN:HD21	5:O:243:LEU:HD12	1.79	0.45
6:Q:16:VAL:O	6:Q:19:PRO:HD3	2.17	0.45
6:S:26:PRO:O	6:S:26:PRO:HG2	2.15	0.45
2:A:813:GLN:CD	2:C:147:ALA:HA	2.40	0.45
2:A:861:LEU:C	2:A:863:GLN:H	2.25	0.45
2:A:914:LEU:CD2	2:C:13:MET:HG3	2.44	0.45
2:B:131:ASN:ND2	2:B:212:CYS:HB3	2.30	0.45
2:B:154:ILE:C	2:B:154:ILE:CD1	2.74	0.45
2:C:197:LYS:HA	2:C:257:LYS:O	2.16	0.45
2:C:284:THR:O	2:C:286:SER:OG	2.34	0.45
2:C:336:ASP:O	2:C:336:ASP:CG	2.57	0.45
2:C:699:ASP:O	2:C:700:SER:C	2.53	0.45
2:D:318:THR:HG22	2:D:321:MET:CE	2.46	0.45
2:D:377:ILE:O	2:D:377:ILE:CG2	2.64	0.45
2:D:473:THR:C	2:D:475:ALA:H	2.24	0.45
2:E:121:TYR:OH	2:F:822:PRO:CA	2.64	0.45
2:E:126:PRO:CA	2:F:434:GLU:OE1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:161:GLN:NE2	2:E:167:THR:HA	2.31	0.45
2:E:269:ALA:HB1	2:E:272:THR:CG2	2.47	0.45
2:E:517:ARG:NH2	2:F:380:HIS:ND1	2.64	0.45
2:E:630:PRO:HG2	2:E:633:ALA:CB	2.46	0.45
2:E:787:TYR:O	2:E:789:ASN:N	2.49	0.45
2:F:554:TYR:O	2:F:554:TYR:CG	2.69	0.45
2:F:570:LEU:HD12	2:F:570:LEU:HA	1.79	0.45
2:F:690:THR:O	2:F:690:THR:OG1	2.34	0.45
2:F:705:PRO:O	2:F:705:PRO:CG	2.63	0.45
2:F:825:GLY:C	2:F:827:THR:H	2.23	0.45
2:G:131:ASN:ND2	2:H:816:PRO:HD3	2.25	0.45
2:G:246:PHE:HD2	2:I:412:TRP:NE1	2.14	0.45
2:G:316:ASN:OD1	2:G:342:THR:N	2.44	0.45
2:G:382:VAL:O	2:G:382:VAL:HG23	2.15	0.45
2:G:691:PHE:CB	2:G:718:ILE:HD13	2.39	0.45
2:G:731:GLN:H	2:G:731:GLN:CD	2.08	0.45
2:G:742:GLN:HG3	2:G:844:TRP:CE3	2.51	0.45
2:G:769:ARG:CZ	2:G:769:ARG:HB3	2.46	0.45
2:H:28:LEU:HD12	2:H:28:LEU:O	2.16	0.45
2:H:86:LEU:HD13	2:H:588:LEU:HD11	1.97	0.45
2:H:144:ARG:O	2:H:144:ARG:HD2	2.16	0.45
2:H:148:PRO:O	2:H:148:PRO:HG2	2.15	0.45
2:H:181:PRO:HA	2:I:804:TYR:CE2	2.51	0.45
2:H:249:LEU:CD2	2:H:250:PRO:HD3	2.43	0.45
2:H:375:ARG:HH11	2:H:375:ARG:HG3	1.81	0.45
2:H:741:ILE:CD1	2:H:852:PHE:CD2	2.99	0.45
2:H:762:ASP:OD1	2:H:762:ASP:C	2.59	0.45
2:H:917:PRO:O	2:H:918:PHE:HD1	1.98	0.45
2:I:173:ALA:O	2:I:176:THR:HG23	2.17	0.45
2:I:285:ILE:HG13	2:I:286:SER:N	2.30	0.45
2:I:693:LYS:HB3	2:I:717:GLU:HG2	1.97	0.45
2:I:795:GLN:NE2	2:I:819:TYR:CD2	2.85	0.45
2:J:127:LYS:H	2:J:127:LYS:HG2	1.46	0.45
2:J:346:TYR:CB	2:J:538:LYS:HG2	2.47	0.45
2:J:356:ARG:O	2:J:367:VAL:HG11	2.15	0.45
2:J:427:SER:O	2:J:427:SER:OG	2.21	0.45
2:J:435:ILE:O	2:J:437:LEU:N	2.47	0.45
2:J:789:ASN:O	2:J:789:ASN:OD1	2.34	0.45
2:K:135:TRP:HB2	2:K:141:ILE:CA	2.46	0.45
2:K:269:ALA:O	2:K:271:ASP:N	2.49	0.45
2:K:664:LEU:N	2:K:664:LEU:HD23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:694:VAL:CG1	2:K:716:PHE:HD2	2.26	0.45
2:L:207:THR:O	2:L:207:THR:OG1	2.15	0.45
2:L:252:THR:OG1	2:L:255:GLU:OE1	2.30	0.45
2:L:540:PHE:CD1	2:L:541:ALA:N	2.84	0.45
3:M:421:GLN:HG2	3:M:444:ARG:NH1	2.30	0.45
5:O:209:LEU:HD22	5:O:212:ALA:CB	2.46	0.45
7:U:191:THR:O	7:U:195:VAL:HG22	2.15	0.45
2:A:130:PRO:HB2	2:A:291:LEU:HD21	1.99	0.45
2:A:307:ASP:OD1	2:A:307:ASP:C	2.58	0.45
2:A:335:VAL:O	2:A:913:TYR:CE2	2.69	0.45
2:A:361:SER:OG	2:B:730:ALA:HB1	2.15	0.45
2:A:544:ASN:CB	2:A:616:PHE:CE2	2.93	0.45
2:A:544:ASN:ND2	2:C:43:ASN:HD21	2.15	0.45
2:A:912:VAL:HG13	2:C:13:MET:SD	2.57	0.45
2:B:134:GLU:HB2	2:B:205:ASP:CA	2.41	0.45
2:B:134:GLU:CG	2:B:205:ASP:H	2.28	0.45
2:B:245:GLN:CB	2:B:260:LEU:HB2	2.45	0.45
2:B:305:PHE:CD2	2:B:309:PHE:HE1	2.34	0.45
2:B:364:ASN:OD1	2:B:519:ARG:HG3	2.17	0.45
2:B:521:MET:HG2	2:C:494:GLY:O	2.17	0.45
2:B:627:TYR:CE2	2:B:638:ILE:HD12	2.44	0.45
2:B:747:TYR:HE1	2:B:762:ASP:HA	1.81	0.45
2:B:790:VAL:HG12	2:B:794:PHE:O	2.16	0.45
2:B:827:THR:O	2:B:828:ALA:HB2	2.15	0.45
2:C:96:MET:HE3	2:C:324:LEU:HD21	1.97	0.45
2:C:138:ASN:O	2:C:140:LYS:N	2.49	0.45
2:C:682:ASP:HB3	2:C:684:THR:HG23	1.98	0.45
2:C:767:PHE:C	2:C:767:PHE:HD1	2.24	0.45
2:D:208:PRO:HA	2:D:284:THR:HG23	1.97	0.45
2:D:727:TYR:HB3	2:D:736:LYS:HG2	1.99	0.45
2:D:810:ARG:HD3	2:E:432:ALA:HB2	1.98	0.45
2:D:912:VAL:HG12	2:D:912:VAL:O	2.16	0.45
2:E:15:ILE:HD11	2:F:896:PHE:CG	2.51	0.45
2:E:31:PHE:CD1	2:E:31:PHE:C	2.93	0.45
2:E:265:VAL:HG23	2:E:267:ILE:HB	1.98	0.45
2:E:324:LEU:O	2:E:324:LEU:CG	2.62	0.45
2:E:533:ILE:HG22	2:E:534:GLN:N	2.30	0.45
2:E:677:SER:O	2:E:679:PRO:HD3	2.16	0.45
2:E:730:ALA:CB	2:E:732:CYS:SG	3.02	0.45
2:F:67:ARG:C	2:F:68:PHE:CD1	2.94	0.45
2:F:79:SER:O	2:F:560:LYS:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:121:TYR:N	2:F:121:TYR:HD1	2.11	0.45
2:F:164:THR:O	2:F:166:THR:N	2.50	0.45
2:F:337:LEU:HD21	4:N:191:LYS:NZ	2.31	0.45
2:F:360:PHE:CE1	2:F:362:MET:HB2	2.48	0.45
2:G:142:LYS:HD3	2:G:260:LEU:CD1	2.46	0.45
2:G:208:PRO:CA	2:G:285:ILE:HG12	2.41	0.45
2:G:247:PHE:HD1	2:I:403:SER:O	1.99	0.45
2:G:652:SER:HG	2:G:892:LEU:HB3	1.79	0.45
2:G:851:ASN:OD1	2:G:851:ASN:C	2.59	0.45
2:H:87:ALA:HB2	2:H:551:SER:HB2	1.98	0.45
2:H:148:PRO:HD3	2:I:813:GLN:OE1	2.15	0.45
2:H:743:MET:HG2	2:H:743:MET:O	2.16	0.45
2:H:743:MET:HG2	2:H:749:ILE:CD1	2.45	0.45
2:H:810:ARG:HH21	2:I:430:ILE:HG13	1.81	0.45
2:I:91:ASN:HB3	2:I:597:HIS:ND1	2.31	0.45
2:I:334:VAL:O	2:I:334:VAL:CG1	2.64	0.45
2:I:388:ASN:ND2	2:I:437:LEU:HD23	2.31	0.45
2:I:458:TYR:CE2	2:I:501:PRO:HB3	2.51	0.45
2:J:9:GLN:OE1	2:J:9:GLN:HA	2.16	0.45
2:J:116:TYR:HE1	2:J:271:ASP:CB	2.29	0.45
2:J:131:ASN:O	2:J:133:CYS:N	2.49	0.45
2:J:216:TYR:OH	2:J:218:LYS:HA	2.16	0.45
2:J:304:GLY:O	2:J:567:GLN:N	2.47	0.45
2:J:314:TYR:CD2	2:J:557:ASN:HB2	2.52	0.45
2:J:448:SER:OG	2:K:383:GLU:OE1	2.29	0.45
2:J:660:GLU:HB3	2:J:674:TYR:CD2	2.51	0.45
2:K:62:GLN:HE22	2:K:594:PRO:HA	1.80	0.45
2:K:64:LEU:HD12	2:K:594:PRO:HD3	1.99	0.45
2:K:314:TYR:CE1	2:K:559:ARG:HG3	2.51	0.45
2:K:518:TYR:HE1	2:K:522:LEU:HD23	1.81	0.45
2:L:99:THR:HB	2:L:588:LEU:HD11	1.97	0.45
2:L:112:SER:O	2:L:112:SER:OG	2.34	0.45
2:L:851:ASN:CG	2:L:853:MET:HB2	2.41	0.45
3:M:189:LEU:HD22	3:M:193:ARG:HD2	1.98	0.45
3:M:275:GLU:OE1	3:M:341:ARG:NH2	2.48	0.45
7:U:165:ARG:HG2	7:U:166:SER:N	2.27	0.45
7:U:192:LEU:HD23	7:U:192:LEU:HA	1.80	0.45
1:4:19:MET:CE	2:B:34:ALA:C	2.89	0.45
2:A:276:TYR:OH	2:C:185:GLN:O	2.34	0.45
2:A:334:VAL:HG23	2:A:539:PHE:CD1	2.51	0.45
2:A:517:ARG:NH1	2:B:380:HIS:CE1	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:VAL:HG22	2:B:33:ARG:HD3	1.99	0.45
2:B:149:PHE:HB2	2:B:177:TYR:CD2	2.51	0.45
2:B:155:ASN:C	2:B:157:ASP:N	2.73	0.45
2:B:320:ASN:CB	2:B:557:ASN:HD22	2.29	0.45
2:B:341:ASN:O	2:B:341:ASN:CG	2.55	0.45
2:B:480:ARG:HH21	2:B:480:ARG:CG	2.25	0.45
2:B:837:PHE:O	2:B:837:PHE:CD1	2.69	0.45
2:B:900:ARG:HG3	2:B:900:ARG:HH11	1.80	0.45
2:C:46:ARG:HD3	2:C:46:ARG:HA	1.60	0.45
2:C:109:ARG:N	2:C:527:ARG:O	2.50	0.45
2:C:112:SER:O	2:C:114:LYS:N	2.50	0.45
2:C:149:PHE:O	2:C:149:PHE:CG	2.63	0.45
2:C:288:ALA:O	2:C:290:LEU:HB2	2.16	0.45
2:C:569:SER:O	2:C:570:LEU:HB2	2.15	0.45
2:D:24:LEU:CD1	2:E:612:ASN:HD22	2.29	0.45
2:D:102:ASP:CG	2:D:589:TYR:HE2	2.25	0.45
2:D:323:VAL:HG12	2:D:332:ASN:CG	2.41	0.45
2:D:382:VAL:HG21	2:D:439:ALA:CA	2.46	0.45
2:D:698:PHE:HE1	2:D:874:LEU:CD1	2.29	0.45
2:D:821:TYR:OH	2:F:219:PRO:HG2	2.15	0.45
2:E:661:THR:OG1	2:E:662:PRO:CD	2.60	0.45
2:F:672:PHE:O	2:F:672:PHE:CD1	2.69	0.45
2:F:687:LEU:HD23	2:F:687:LEU:HA	1.78	0.45
2:F:793:PRO:CD	2:F:794:PHE:H	2.29	0.45
2:F:858:LEU:HD21	2:F:863:GLN:HB2	1.99	0.45
2:G:384:ASP:CG	2:I:127:LYS:NZ	2.75	0.45
2:H:70:PRO:HB3	2:H:84:PHE:HE1	1.80	0.45
2:H:111:PRO:N	2:H:527:ARG:HH22	2.15	0.45
2:H:315:TYR:HE1	2:H:539:PHE:HB2	1.82	0.45
2:I:59:ASP:OD1	2:I:59:ASP:N	2.45	0.45
2:I:563:ASN:OD1	2:I:574:LEU:HD12	2.17	0.45
2:I:711:LEU:HD23	2:I:737:ASP:HB3	1.98	0.45
2:J:78:TYR:CD2	2:J:668:PHE:HB2	2.51	0.45
2:J:301:ASN:HD21	2:J:572:ASN:HD21	1.64	0.45
2:J:626:LEU:HD23	2:J:626:LEU:HA	1.80	0.45
2:J:780:ASN:HB3	2:J:830:PRO:HB2	1.99	0.45
2:K:315:TYR:O	2:K:316:ASN:C	2.59	0.45
2:K:664:LEU:HD23	2:K:664:LEU:H	1.82	0.45
2:K:814:ALA:O	2:K:815:TYR:HB2	2.16	0.45
2:L:450:VAL:O	2:L:450:VAL:CG2	2.63	0.45
2:L:507:PRO:HG2	2:L:508:PHE:CD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:562:VAL:HG21	2:L:579:ALA:O	2.16	0.45
2:L:653:PHE:CE1	2:L:844:TRP:HB2	2.51	0.45
3:M:77:ILE:CD1	3:M:92:THR:CB	2.75	0.45
5:O:94:ILE:HG21	5:O:102:ILE:CG1	2.45	0.45
7:T:37:GLY:O	7:T:39:HIS:N	2.42	0.45
7:T:213:LEU:H	7:T:213:LEU:HG	1.03	0.45
7:U:11:TRP:CZ3	7:U:22:GLY:O	2.70	0.45
7:U:81:GLN:NE2	7:U:185:ARG:H	2.15	0.45
7:U:89:VAL:HG12	7:U:175:LEU:O	2.17	0.45
1:4:18:PHE:HD1	1:4:19:MET:HE2	1.76	0.45
2:A:53:THR:HG21	5:O:58:GLN:H	1.81	0.45
2:A:435:ILE:C	2:A:437:LEU:N	2.75	0.45
2:A:492:ASN:ND2	2:A:497:TRP:O	2.50	0.45
2:A:608:ARG:NH1	2:A:905:HIS:O	2.49	0.45
2:B:10:TRP:O	2:B:14:HIS:N	2.50	0.45
2:B:95:ASP:OD1	2:B:97:ALA:N	2.49	0.45
2:B:277:LYS:O	2:B:278:PRO:C	2.59	0.45
2:B:638:ILE:HD11	2:B:876:MET:CG	2.45	0.45
2:B:734:MET:HE1	2:B:739:PHE:CB	2.47	0.45
2:C:155:ASN:ND2	2:C:158:ASN:HB2	2.32	0.45
2:C:178:GLN:HE21	2:C:178:GLN:HA	1.82	0.45
2:C:356:ARG:H	2:C:356:ARG:HH22	1.59	0.45
2:C:537:GLN:HG2	2:C:542:ILE:HG22	1.97	0.45
2:C:603:LEU:CD2	2:C:603:LEU:C	2.90	0.45
2:C:694:VAL:HG23	2:C:878:PHE:CD1	2.52	0.45
2:C:695:SER:HB3	2:C:877:THR:CG2	2.47	0.45
2:D:257:LYS:NZ	2:D:257:LYS:CB	2.76	0.45
2:D:582:ARG:NH2	2:D:584:ASP:OD2	2.47	0.45
2:D:745:SER:HB2	2:D:847:PRO:HD3	1.98	0.45
2:D:884:ASP:OD1	2:D:884:ASP:C	2.59	0.45
2:E:75:ASP:OD1	2:E:560:LYS:HE2	2.16	0.45
2:E:121:TYR:O	2:E:122:ASN:C	2.58	0.45
2:E:143:VAL:HB	2:E:144:ARG:H	1.51	0.45
2:E:197:LYS:HD3	2:E:198:VAL:H	1.81	0.45
2:E:242:VAL:HG12	2:E:243:ASN:N	2.31	0.45
2:E:435:ILE:CG1	2:F:390:CYS:SG	3.04	0.45
2:E:476:TYR:O	2:E:480:ARG:HG2	2.17	0.45
2:E:680:TYR:CD1	2:E:890:TYR:HE2	2.34	0.45
2:E:698:PHE:CE1	2:E:874:LEU:CD1	3.00	0.45
2:E:747:TYR:H	2:E:747:TYR:HD2	1.62	0.45
2:F:19:ASP:OD1	2:F:20:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:117:SER:OG	2:F:118:GLY:N	2.48	0.45
2:F:563:ASN:HD21	2:F:574:LEU:H	1.64	0.45
2:F:706:GLY:O	2:F:708:ASP:N	2.50	0.45
2:F:730:ALA:C	2:F:732:CYS:H	2.25	0.45
2:F:798:ASN:OD1	2:F:798:ASN:N	2.48	0.45
2:F:900:ARG:HG3	2:F:900:ARG:NH1	2.31	0.45
2:G:9:GLN:HE22	2:H:914:LEU:CD1	2.18	0.45
2:G:12:TYR:HE1	2:H:900:ARG:NH1	2.13	0.45
2:G:96:MET:HE3	2:G:324:LEU:CD1	2.36	0.45
2:G:142:LYS:CB	2:I:423:ALA:HA	2.09	0.45
2:G:209:MET:CE	2:G:290:LEU:CB	2.92	0.45
2:G:473:THR:HG23	2:G:476:TYR:H	1.80	0.45
2:G:790:VAL:O	2:G:795:GLN:NE2	2.49	0.45
2:G:921:GLY:O	2:G:922:ASN:C	2.52	0.45
2:H:63:ARG:HD2	2:I:708:ASP:OD1	2.16	0.45
2:H:177:TYR:CE2	2:H:261:TYR:CE1	3.04	0.45
2:H:781:THR:HA	2:H:787:TYR:CE2	2.50	0.45
2:I:94:LEU:HD12	2:I:592:PHE:HE1	1.80	0.45
2:I:399:THR:HG22	2:I:425:ILE:N	2.31	0.45
2:I:599:THR:O	2:I:602:THR:HG22	2.17	0.45
2:I:626:LEU:O	2:I:627:TYR:HD1	1.99	0.45
2:I:743:MET:O	2:I:743:MET:HG3	2.17	0.45
2:I:827:THR:O	2:I:827:THR:OG1	2.34	0.45
2:J:142:LYS:HD2	2:J:247:PHE:CE1	2.51	0.45
2:J:267:ILE:HG12	2:J:267:ILE:O	2.16	0.45
2:J:360:PHE:CD1	2:J:361:SER:N	2.81	0.45
2:J:718:ILE:HD12	2:J:718:ILE:N	2.32	0.45
2:J:882:PRO:HG2	6:P:49:ASN:HA	1.99	0.45
2:K:455:PRO:O	2:K:457:SER:N	2.44	0.45
2:K:546:LEU:O	2:K:548:LEU:HD22	2.17	0.45
2:K:758:GLU:OE1	2:K:760:TYR:HE1	1.99	0.45
2:K:912:VAL:CG2	7:T:40:MET:HE2	2.45	0.45
2:L:193:GLY:O	2:L:195:ALA:N	2.49	0.45
2:L:488:ASP:OD1	2:L:489:THR:N	2.41	0.45
2:L:564:MET:O	2:L:564:MET:CG	2.63	0.45
2:L:718:ILE:HG12	2:L:738:TRP:CD1	2.51	0.45
2:L:774:MET:O	2:L:775:SER:OG	2.30	0.45
5:O:158:LEU:HD22	5:O:159:PRO:HD3	1.98	0.45
5:O:216:LEU:CD2	5:O:262:LEU:HD11	2.46	0.45
5:O:264:HIS:HB3	5:O:268:LEU:HD13	1.98	0.45
7:T:180:SER:O	7:T:181:SER:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:38:PRO:O	7:U:42:GLY:N	2.49	0.45
2:A:66:LEU:HD22	2:A:592:PHE:HE2	1.81	0.45
2:A:449:ASN:HD21	2:A:512:ARG:NH1	2.14	0.45
2:A:565:ILE:HD11	2:A:581:VAL:HG21	1.99	0.45
2:A:573:ASP:CG	2:A:673:THR:HB	2.42	0.45
2:A:584:ASP:OD1	2:A:584:ASP:C	2.60	0.45
2:A:622:ALA:HB1	2:A:895:VAL:HG22	1.99	0.45
2:A:810:ARG:NE	2:B:432:ALA:HB2	2.31	0.45
2:A:819:TYR:CD2	2:A:819:TYR:C	2.79	0.45
2:A:821:TYR:CE2	2:C:219:PRO:HD2	2.52	0.45
2:B:102:ASP:OD2	2:C:736:LYS:NZ	2.42	0.45
2:B:179:PRO:HB3	2:C:813:GLN:NE2	2.31	0.45
2:B:241:ASP:C	2:B:242:VAL:HG22	2.42	0.45
2:B:287:SER:O	2:B:288:ALA:CB	2.64	0.45
2:B:362:MET:O	2:B:363:TRP:C	2.59	0.45
2:B:453:TYR:CE2	2:B:511:HIS:N	2.81	0.45
2:B:470:ASN:O	2:B:473:THR:OG1	2.35	0.45
2:B:564:MET:HE2	2:B:564:MET:CA	2.40	0.45
2:B:865:MET:SD	2:B:872:HIS:CE1	3.10	0.45
2:C:121:TYR:O	2:C:123:SER:N	2.50	0.45
2:C:446:LEU:HD22	2:C:489:THR:N	2.31	0.45
2:C:720:ARG:O	2:C:720:ARG:HG3	2.14	0.45
2:D:95:ASP:OD1	2:D:95:ASP:C	2.59	0.45
2:D:425:ILE:HG21	2:E:247:PHE:HE1	1.78	0.45
2:D:443:ARG:HH22	2:E:386:LEU:CD1	2.30	0.45
2:D:493:ILE:CD1	2:F:116:TYR:CE1	2.90	0.45
2:E:60:ARG:NH2	4:N:171:PRO:HG2	2.32	0.45
2:E:188:TRP:CG	2:F:809:MET:CE	2.99	0.45
2:E:395:GLY:N	2:F:129:ALA:CB	2.80	0.45
2:E:499:PRO:HD2	2:E:502:MET:CE	2.47	0.45
2:E:658:THR:O	2:E:661:THR:N	2.31	0.45
2:E:890:TYR:HE1	2:E:892:LEU:HD12	1.82	0.45
2:F:271:ASP:O	2:F:271:ASP:OD1	2.35	0.45
2:F:376:ILE:HG23	2:F:774:MET:SD	2.56	0.45
2:F:435:ILE:HG22	2:F:436:ASN:N	2.31	0.45
2:F:787:TYR:O	2:F:788:GLN:C	2.59	0.45
2:G:122:ASN:ND2	2:H:798:ASN:H	2.13	0.45
2:G:352:ALA:O	2:G:353:LEU:CG	2.64	0.45
2:G:687:LEU:HD12	2:G:883:MET:HE1	1.97	0.45
2:G:784:TYR:HD1	2:G:786:GLU:N	2.04	0.45
2:H:103:ILE:HG12	2:H:586:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:150:ILE:CD1	2:H:183:VAL:CG2	2.95	0.45
2:H:159:GLY:HA2	2:H:261:TYR:OH	2.16	0.45
2:H:207:THR:O	2:H:207:THR:OG1	2.32	0.45
2:H:355:ASP:OD1	2:H:355:ASP:C	2.59	0.45
2:H:393:LEU:O	2:I:128:THR:HB	2.16	0.45
2:H:402:TYR:HE2	2:H:425:ILE:HG13	1.81	0.45
2:H:506:ASN:CB	2:H:509:ASN:OD1	2.65	0.45
2:H:864:ASN:OD1	2:H:864:ASN:C	2.60	0.45
2:I:135:TRP:CD2	2:I:143:VAL:HG11	2.52	0.45
2:J:100:TYR:HH	2:J:589:TYR:HD2	1.64	0.45
2:J:154:ILE:CG1	2:J:197:LYS:HB3	2.46	0.45
2:J:360:PHE:CE1	2:J:362:MET:HB3	2.51	0.45
2:J:398:ALA:O	2:J:400:ASP:N	2.50	0.45
2:J:608:ARG:NH1	2:J:608:ARG:HG2	2.29	0.45
2:K:545:LEU:HA	2:K:616:PHE:CZ	2.51	0.45
2:K:617:ASN:O	2:K:617:ASN:OD1	2.34	0.45
2:L:9:GLN:HB3	4:N:175:LEU:HD13	1.98	0.45
2:L:193:GLY:O	2:L:194:ALA:C	2.59	0.45
2:L:497:TRP:CG	2:L:776:ARG:HD3	2.51	0.45
3:M:465:THR:CG2	3:M:501:LYS:HZ2	2.30	0.45
5:O:92:LYS:C	5:O:93:ALA:O	2.59	0.45
5:O:244:LEU:HD12	5:O:266:ILE:HG13	1.97	0.45
7:T:185:ARG:HG2	7:T:185:ARG:NH1	2.31	0.45
2:A:497:TRP:HZ3	2:A:834:GLN:HB2	1.76	0.45
2:A:539:PHE:CZ	2:A:540:PHE:CE1	3.04	0.45
2:A:662:PRO:CD	2:A:672:PHE:HE2	2.30	0.45
2:B:710:LEU:HD21	2:B:716:PHE:HA	1.97	0.45
2:B:781:THR:HA	2:B:787:TYR:CD2	2.51	0.45
2:B:794:PHE:CD1	2:B:794:PHE:N	2.71	0.45
2:B:837:PHE:CZ	2:B:844:TRP:HZ2	2.35	0.45
2:C:100:TYR:CE1	2:C:589:TYR:HB3	2.51	0.45
2:C:149:PHE:HB2	2:C:177:TYR:OH	2.17	0.45
2:C:315:TYR:OH	2:C:538:LYS:N	2.42	0.45
2:C:330:GLN:CD	2:J:69:VAL:HG12	2.42	0.45
2:C:375:ARG:NH2	2:C:502:MET:HG3	2.31	0.45
2:C:441:LEU:O	2:C:441:LEU:CG	2.65	0.45
2:D:125:ALA:O	2:D:126:PRO:C	2.58	0.45
2:D:528:TYR:O	2:D:530:PRO:HD3	2.16	0.45
2:D:698:PHE:HB2	2:D:701:SER:HB3	1.99	0.45
2:D:878:PHE:HD2	2:D:889:LEU:CD2	2.30	0.45
2:E:10:TRP:C	2:E:15:ILE:HG22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:92:ARG:HG2	2:E:592:PHE:CE2	2.51	0.45
2:E:335:VAL:CG1	7:T:108:LEU:HD11	2.46	0.45
2:E:356:ARG:HB3	2:E:367:VAL:HG11	1.96	0.45
2:F:156:LYS:O	2:F:157:ASP:HB2	2.14	0.45
2:F:648:PHE:CZ	2:F:893:PHE:HD1	2.35	0.45
2:F:902:HIS:CE1	2:F:904:PRO:HB3	2.51	0.45
2:F:915:ARG:O	2:F:919:SER:N	2.49	0.45
2:G:251:SER:N	2:G:253:PRO:HD3	2.32	0.45
2:G:373:ASP:OD1	2:G:373:ASP:O	2.33	0.45
2:G:389:TYR:CD2	2:I:810:ARG:HG2	2.51	0.45
2:G:435:ILE:HG22	2:G:436:ASN:O	2.17	0.45
2:G:694:VAL:HG13	2:G:716:PHE:HB2	1.97	0.45
2:G:724:GLY:C	2:G:726:GLY:N	2.67	0.45
2:H:589:TYR:CE2	2:I:736:LYS:NZ	2.85	0.45
2:H:639:SER:HB3	6:P:21:LEU:HD13	1.99	0.45
2:H:775:SER:OG	2:H:835:LYS:HG2	2.17	0.45
2:I:371:ASP:CB	2:I:374:VAL:HG12	2.42	0.45
2:I:375:ARG:HG3	2:I:375:ARG:HH11	1.81	0.45
2:I:412:TRP:HA	2:I:412:TRP:HD1	1.57	0.45
2:I:554:TYR:HD2	2:I:588:LEU:CD1	2.30	0.45
2:I:652:SER:HA	2:I:844:TRP:O	2.16	0.45
2:I:762:ASP:OD1	2:I:762:ASP:C	2.59	0.45
2:J:8:PRO:HB2	7:T:47:ILE:CD1	2.46	0.45
2:J:57:THR:HG21	2:K:850:SER:OG	2.17	0.45
2:J:58:THR:HB	2:J:595:MET:O	2.17	0.45
2:J:175:LYS:CA	2:J:175:LYS:HZ2	2.28	0.45
2:J:335:VAL:HG12	2:J:913:TYR:CZ	2.52	0.45
2:J:751:TYR:CD2	2:L:593:PHE:HA	2.51	0.45
2:J:816:PRO:HB3	2:L:215:SER:HB3	1.98	0.45
2:K:370:TYR:CE2	2:K:508:PHE:HE1	2.35	0.45
2:K:563:ASN:ND2	2:K:573:ASP:OD1	2.49	0.45
2:L:128:THR:O	2:L:128:THR:CG2	2.63	0.45
2:L:174:ASP:O	2:L:175:LYS:C	2.60	0.45
2:L:356:ARG:HG3	2:L:356:ARG:HH11	1.82	0.45
2:L:449:ASN:O	2:L:510:HIS:HE1	2.00	0.45
2:L:858:LEU:HA	2:L:896:PHE:HZ	1.82	0.45
3:M:468:LEU:CD2	3:M:469:ARG:C	2.81	0.45
5:O:70:VAL:O	5:O:70:VAL:CG1	2.59	0.45
5:O:123:ASP:C	5:O:123:ASP:OD1	2.59	0.45
5:O:188:VAL:O	5:O:189:TYR:HD1	1.99	0.45
6:P:26:PRO:HB2	6:P:28:TRP:CH2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T:64:THR:O	7:T:65:PRO:C	2.60	0.45
7:T:183:GLN:HA	7:T:183:GLN:OE1	2.17	0.45
1:0:20:ALA:N	1:0:21:PRO:CD	2.41	0.45
1:3:19:MET:HG3	1:3:25:ILE:HG12	1.99	0.45
1:5:15:SER:O	1:5:16:ARG:NH2	2.50	0.45
2:A:58:THR:OG1	2:A:596:ALA:HA	2.17	0.45
2:A:215:SER:OG	2:B:816:PRO:HA	2.17	0.45
2:A:277:LYS:HE3	2:A:465:ILE:CA	2.46	0.45
2:A:506:ASN:CB	2:A:509:ASN:ND2	2.80	0.45
2:A:622:ALA:HB1	2:A:623:ALA:H	1.54	0.45
2:A:719:LYS:HD2	2:A:837:PHE:CE1	2.50	0.45
2:B:269:ALA:O	2:B:270:PRO:C	2.57	0.45
2:B:348:LEU:O	2:B:351:ASP:N	2.39	0.45
2:B:667:GLY:O	2:B:668:PHE:CB	2.64	0.45
2:B:764:MET:HA	2:B:769:ARG:HH12	1.82	0.45
2:C:441:LEU:O	2:C:441:LEU:CD1	2.62	0.45
2:C:733:ASN:O	2:C:733:ASN:CG	2.56	0.45
2:C:762:ASP:O	2:C:762:ASP:CG	2.53	0.45
2:C:781:THR:HG23	2:C:787:TYR:HD2	1.82	0.45
2:C:804:TYR:CD1	2:C:805:MET:N	2.84	0.45
2:D:77:ALA:HB1	2:D:78:TYR:CD1	2.51	0.45
2:D:567:GLN:NE2	2:D:676:GLY:O	2.50	0.45
2:D:771:PHE:CD1	2:D:773:PRO:HD3	2.52	0.45
2:D:815:TYR:OH	2:F:202:VAL:N	2.50	0.45
2:E:83:ARG:CA	2:E:555:GLU:HG2	2.45	0.45
2:E:114:LYS:HZ1	2:E:298:ASN:CA	2.30	0.45
2:E:127:LYS:O	2:E:294:GLN:HA	2.17	0.45
2:E:213:TYR:CD1	2:E:213:TYR:O	2.70	0.45
2:E:497:TRP:CD2	2:E:776:ARG:HG3	2.52	0.45
2:E:569:SER:C	2:E:570:LEU:HD12	2.42	0.45
2:F:160:ILE:O	2:F:162:ILE:N	2.50	0.45
2:F:462:PRO:HG2	2:F:465:ILE:HG12	1.98	0.45
2:F:608:ARG:NH2	2:F:906:ARG:HA	2.22	0.45
2:F:648:PHE:HZ	2:F:651:TRP:CD1	2.35	0.45
2:F:779:VAL:HG11	2:F:821:TYR:CD2	2.51	0.45
2:F:915:ARG:NE	2:F:918:PHE:O	2.44	0.45
2:G:9:GLN:O	2:G:9:GLN:CD	2.60	0.45
2:G:28:LEU:N	2:H:606:MET:CE	2.80	0.45
2:G:142:LYS:NZ	2:I:425:ILE:CG1	2.80	0.45
2:G:142:LYS:HG2	2:G:247:PHE:CE2	2.51	0.45
2:G:209:MET:HE1	2:G:290:LEU:HB2	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:623:ALA:HB3	2:G:893:PHE:HB2	1.98	0.45
2:G:663:SER:HB2	2:G:669:ASP:HB3	1.98	0.45
2:G:663:SER:O	2:G:664:LEU:C	2.60	0.45
2:H:83:ARG:HH22	2:L:85:THR:HG21	1.82	0.45
2:H:174:ASP:OD2	2:H:223:LYS:NZ	2.50	0.45
2:H:573:ASP:OD2	2:H:576:VAL:HG23	2.17	0.45
2:H:751:TYR:OH	2:H:851:ASN:O	2.32	0.45
2:H:866:LEU:HD22	2:H:867:TYR:CE1	2.52	0.45
2:I:248:ALA:HA	2:I:257:LYS:HB3	1.99	0.45
2:I:280:VAL:HG11	2:I:290:LEU:CD2	2.39	0.45
2:J:18:GLN:OE1	2:J:22:GLU:HG3	2.17	0.45
2:J:121:TYR:CE2	2:K:822:PRO:HD3	2.50	0.45
2:J:138:ASN:ND2	2:J:138:ASN:H	2.01	0.45
2:J:180:GLU:HB3	2:K:811:GLU:OE1	2.17	0.45
2:J:217:ALA:O	2:J:218:LYS:CB	2.64	0.45
2:J:629:ILE:HB	2:J:887:THR:CG2	2.44	0.45
2:J:704:TRP:HZ3	2:J:716:PHE:HZ	1.63	0.45
2:J:729:VAL:HG22	2:J:730:ALA:N	2.31	0.45
2:K:134:GLU:HB3	2:K:205:ASP:HA	1.98	0.45
2:K:445:PHE:HD1	2:K:446:LEU:HD23	1.82	0.45
2:K:545:LEU:HD23	2:K:546:LEU:C	2.42	0.45
2:L:67:ARG:HG3	2:L:589:TYR:CE1	2.52	0.45
2:L:178:GLN:O	2:L:178:GLN:HG3	2.14	0.45
2:L:453:TYR:CE2	2:L:510:HIS:HA	2.52	0.45
2:L:691:PHE:O	2:L:719:LYS:HD3	2.17	0.45
2:L:802:VAL:HG12	2:L:803:GLY:N	2.32	0.45
3:M:69:LEU:HD11	3:M:93:VAL:CG1	2.38	0.45
3:M:455:GLU:O	3:M:455:GLU:HG3	2.17	0.45
4:N:179:LYS:O	4:N:180:ARG:CD	2.63	0.45
4:N:182:LYS:HD3	4:N:184:GLU:HG3	1.98	0.45
5:O:209:LEU:HD22	5:O:212:ALA:HB2	1.97	0.45
7:T:194:PHE:HE1	7:T:198:PHE:CB	2.29	0.45
2:A:73:ARG:HH21	2:A:80:TYR:HE2	1.63	0.45
2:A:315:TYR:HB3	2:A:342:THR:HG23	1.97	0.45
2:A:548:LEU:HD13	2:A:604:GLU:CD	2.42	0.45
2:A:813:GLN:HE21	2:C:200:GLY:HA3	1.82	0.45
2:A:821:TYR:HA	2:C:216:TYR:OH	2.17	0.45
2:B:135:TRP:O	2:B:135:TRP:CG	2.68	0.45
2:B:176:THR:HG23	2:B:201:ARG:HH21	1.82	0.45
2:B:180:GLU:OE1	2:B:181:PRO:N	2.50	0.45
2:B:276:TYR:CE2	2:B:278:PRO:HD3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:320:ASN:HB3	2:B:557:ASN:HD22	1.82	0.45
2:B:776:ARG:O	2:B:777:GLN:NE2	2.50	0.45
2:B:864:ASN:C	2:B:866:LEU:N	2.75	0.45
2:B:895:VAL:CG2	2:B:917:PRO:CB	2.88	0.45
2:C:152:THR:HA	2:C:196:GLN:CG	2.46	0.45
2:C:222:GLU:OE1	2:C:222:GLU:O	2.35	0.45
2:C:323:VAL:HG22	2:C:324:LEU:N	2.32	0.45
2:C:351:ASP:O	2:C:351:ASP:CG	2.56	0.45
2:C:474:TYR:CZ	2:C:478:ASN:ND2	2.85	0.45
2:C:497:TRP:CD2	2:C:776:ARG:HG3	2.52	0.45
2:C:597:HIS:CG	7:T:93:ARG:HH22	2.29	0.45
2:C:669:ASP:OD1	2:C:669:ASP:C	2.60	0.45
2:C:741:ILE:HG12	2:C:852:PHE:CE2	2.51	0.45
2:C:809:MET:HE2	2:C:809:MET:HB2	1.72	0.45
2:D:139:ASN:C	2:D:141:ILE:N	2.69	0.45
2:D:375:ARG:NH2	2:D:838:LEU:HD21	2.32	0.45
2:D:444:SER:O	2:D:448:SER:HB3	2.15	0.45
2:D:648:PHE:CD1	2:D:649:ARG:N	2.85	0.45
2:D:747:TYR:HE1	2:D:762:ASP:HB3	1.81	0.45
2:D:815:TYR:O	2:D:816:PRO:C	2.60	0.45
2:E:200:GLY:O	2:E:260:LEU:HA	2.16	0.45
2:E:203:LEU:CD2	2:F:815:TYR:CZ	2.99	0.45
2:E:333:ALA:HB1	2:E:909:ILE:HG21	1.99	0.45
2:F:62:GLN:HG3	2:F:63:ARG:H	1.81	0.45
2:F:149:PHE:CA	2:F:182:GLN:CB	2.90	0.45
2:F:220:THR:O	2:F:221:ASN:HB2	2.17	0.45
2:F:246:PHE:CD1	2:F:259:VAL:HG22	2.52	0.45
2:F:312:LEU:CD2	2:F:535:VAL:HG21	2.47	0.45
2:F:796:HIS:CB	2:F:818:ASN:HD22	2.25	0.45
2:F:799:SER:C	2:F:801:PHE:H	2.25	0.45
2:F:833:THR:CG2	10:Y:1:UNK:HA	2.47	0.45
2:G:27:GLY:C	2:H:606:MET:CE	2.90	0.45
2:G:54:HIS:HB3	2:G:55:ASP:OD1	2.17	0.45
2:G:215:SER:HB2	2:G:267:ILE:CD1	2.47	0.45
2:G:215:SER:CA	2:G:267:ILE:HD11	2.47	0.45
2:G:226:GLN:O	2:G:227:ALA:HB2	2.17	0.45
2:G:244:LEU:O	2:G:244:LEU:CG	2.62	0.45
2:G:250:PRO:HA	2:I:421:ARG:NH2	2.30	0.45
2:G:378:GLU:HB3	2:G:380:HIS:CD2	2.52	0.45
2:G:455:PRO:HD2	2:G:458:TYR:HD2	1.81	0.45
2:G:695:SER:O	2:G:876:MET:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:871:ALA:O	2:G:872:HIS:CG	2.70	0.45
2:H:68:PHE:CE2	2:H:86:LEU:HD12	2.51	0.45
2:H:100:TYR:HD2	2:H:534:GLN:HB3	1.81	0.45
2:H:127:LYS:CG	2:I:387:PRO:HG3	2.47	0.45
2:H:253:PRO:O	2:H:254:ASN:C	2.59	0.45
2:H:318:THR:CG2	2:H:338:GLN:HE22	2.30	0.45
2:H:376:ILE:HD11	2:H:772:GLN:HG3	1.99	0.45
2:H:649:ARG:C	2:H:848:PHE:HB2	2.42	0.45
2:H:695:SER:CB	6:Q:28:TRP:CZ3	2.99	0.45
2:H:920:ALA:HB3	7:U:107:GLN:OE1	2.15	0.45
2:I:138:ASN:O	2:I:139:ASN:C	2.59	0.45
2:I:339:ASP:OD1	2:I:339:ASP:O	2.34	0.45
2:I:545:LEU:HD23	2:I:547:LEU:N	2.32	0.45
2:I:627:TYR:CD2	2:I:638:ILE:CG2	2.98	0.45
2:J:188:TRP:HE1	2:K:292:THR:HA	1.82	0.45
2:J:212:CYS:HA	2:J:215:SER:OG	2.17	0.45
2:J:301:ASN:HD21	2:J:572:ASN:ND2	2.15	0.45
2:J:325:ALA:HB2	2:J:331:LEU:C	2.42	0.45
2:J:409:GLY:O	2:J:410:GLN:HB2	2.17	0.45
2:J:446:LEU:C	2:J:448:SER:N	2.75	0.45
2:J:523:LEU:O	2:J:529:VAL:HG21	2.17	0.45
2:J:561:ASP:O	2:J:562:VAL:C	2.60	0.45
2:J:704:TRP:CB	2:J:705:PRO:HD2	2.47	0.45
2:J:733:ASN:ND2	2:J:836:LYS:HA	2.32	0.45
2:J:744:LEU:HD23	2:J:744:LEU:HA	1.78	0.45
2:J:777:GLN:HB3	2:J:823:LEU:HD11	1.99	0.45
2:J:794:PHE:HZ	2:L:175:LYS:HD2	1.82	0.45
2:J:840:ASP:OD1	2:J:840:ASP:N	2.49	0.45
2:J:889:LEU:HD23	2:J:889:LEU:C	2.42	0.45
2:K:100:TYR:CD2	2:K:534:GLN:HB3	2.52	0.45
2:K:107:LEU:HD12	2:K:305:PHE:CE1	2.49	0.45
2:K:268:GLU:CB	2:K:270:PRO:CD	2.95	0.45
2:K:312:LEU:H	2:K:565:ILE:HD11	1.80	0.45
2:K:374:VAL:HA	2:K:377:ILE:CD1	2.47	0.45
2:K:403:SER:OG	2:K:404:GLY:N	2.50	0.45
2:K:595:MET:CE	2:K:600:ALA:HA	2.47	0.45
2:L:28:LEU:HD12	2:L:28:LEU:HA	1.82	0.45
2:L:291:LEU:HD23	2:L:291:LEU:N	2.31	0.45
2:L:796:HIS:HD1	2:L:817:ALA:HA	1.82	0.45
3:M:223:MET:HB3	8:X:17:TYR:OH	2.17	0.45
3:M:231:ALA:HB3	3:M:448:PRO:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:414:ASN:O	3:M:417:ALA:HB2	2.17	0.45
6:Q:28:TRP:HE1	6:Q:31:VAL:CG1	2.30	0.45
7:T:62:THR:HG22	7:T:196:GLU:HG2	1.99	0.45
7:U:33:TRP:CE3	7:U:33:TRP:C	2.95	0.45
7:U:33:TRP:HB2	7:U:44:VAL:HG11	1.98	0.45
7:U:89:VAL:CG1	7:U:175:LEU:HB3	2.47	0.45
7:U:99:VAL:HA	7:U:102:THR:HG22	1.99	0.45
7:U:203:TYR:HE2	7:U:207:PHE:H	1.64	0.45
1:8:30:LEU:CD1	1:8:31:ASN:N	2.78	0.45
2:A:387:PRO:HB2	2:A:435:ILE:O	2.16	0.45
2:A:436:ASN:C	2:A:438:ALA:N	2.74	0.45
2:A:546:LEU:HD11	2:C:39:PHE:CZ	2.51	0.45
2:B:172:TYR:O	2:B:173:ALA:HB2	2.15	0.45
2:B:175:LYS:HG2	2:B:178:GLN:CB	2.45	0.45
2:B:192:VAL:HG13	2:B:193:GLY:N	2.32	0.45
2:B:377:ILE:HD11	2:B:491:VAL:HG11	1.97	0.45
2:B:470:ASN:C	2:B:470:ASN:OD1	2.59	0.45
2:B:516:LEU:HD12	2:B:567:GLN:CG	2.47	0.45
2:B:756:VAL:O	2:B:756:VAL:HG13	2.16	0.45
2:B:777:GLN:HB3	2:B:831:SER:OG	2.16	0.45
2:C:31:PHE:O	2:C:31:PHE:CG	2.56	0.45
2:C:85:THR:HG22	2:C:85:THR:O	2.17	0.45
2:C:86:LEU:HD12	2:C:588:LEU:HD23	1.97	0.45
2:C:91:ASN:HB3	2:C:597:HIS:HB3	1.98	0.45
2:C:125:ALA:CB	2:C:126:PRO:HD2	2.43	0.45
2:C:289:ASP:HB2	2:C:290:LEU:H	1.37	0.45
2:C:325:ALA:HB1	2:C:326:GLY:H	1.48	0.45
2:C:563:ASN:HD22	2:C:675:SER:HB3	1.82	0.45
2:C:598:ASN:OD1	7:T:93:ARG:HG3	2.17	0.45
2:D:19:ASP:O	2:D:22:GLU:OE2	2.34	0.45
2:D:158:ASN:CB	2:D:171:ILE:HG21	2.42	0.45
2:D:172:TYR:HD1	2:D:174:ASP:H	1.65	0.45
2:D:192:VAL:CG1	2:D:257:LYS:HG3	2.47	0.45
2:D:399:THR:OG1	2:D:400:ASP:N	2.49	0.45
2:D:561:ASP:CG	2:D:575:ARG:HH21	2.13	0.45
2:D:895:VAL:HG11	2:D:918:PHE:HB2	1.99	0.45
2:E:82:VAL:HG11	2:E:586:ILE:CB	2.45	0.45
2:E:177:TYR:CZ	2:F:799:SER:HA	2.52	0.45
2:E:242:VAL:HG21	2:E:263:GLU:HA	1.99	0.45
2:E:316:ASN:N	2:E:336:ASP:OD2	2.50	0.45
2:E:447:TYR:HD2	2:F:386:LEU:HD21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:739:PHE:HE2	2:E:771:PHE:HE2	1.63	0.45
2:E:878:PHE:CD2	2:E:889:LEU:HD11	2.52	0.45
2:E:895:VAL:CG2	2:E:915:ARG:HD2	2.47	0.45
2:F:109:ARG:CZ	2:F:113:PHE:CE1	3.00	0.45
2:F:112:SER:C	2:F:114:LYS:N	2.75	0.45
2:F:123:SER:HB2	2:F:124:LEU:H	1.51	0.45
2:F:176:THR:C	2:F:178:GLN:N	2.74	0.45
2:F:268:GLU:HB2	2:F:269:ALA:H	1.45	0.45
2:F:324:LEU:O	2:F:909:ILE:HG21	2.16	0.45
2:F:630:PRO:HG2	2:F:633:ALA:CB	2.46	0.45
2:F:784:TYR:HB2	2:F:830:PRO:CD	2.40	0.45
2:G:61:SER:HA	2:H:707:ASN:ND2	2.31	0.45
2:G:154:ILE:HA	2:G:159:GLY:O	2.17	0.45
2:G:205:ASP:OD1	2:G:205:ASP:C	2.60	0.45
2:G:273:HIS:HD2	2:G:296:ALA:HB3	1.77	0.45
2:G:306:ARG:CD	2:G:310:ILE:HG22	2.47	0.45
2:G:351:ASP:C	2:G:353:LEU:N	2.66	0.45
2:G:425:ILE:HD12	2:H:247:PHE:CD2	2.51	0.45
2:G:497:TRP:CD2	2:G:776:ARG:HG2	2.50	0.45
2:G:607:LEU:HA	2:G:607:LEU:HD23	1.82	0.45
2:G:699:ASP:O	2:G:700:SER:CB	2.62	0.45
2:G:707:ASN:O	2:G:708:ASP:OD1	2.34	0.45
2:H:98:SER:HB2	2:H:591:ASN:HD22	1.81	0.45
2:H:154:ILE:HG22	2:H:197:LYS:HD2	1.98	0.45
2:H:163:GLY:C	2:H:168:ASN:CB	2.90	0.45
2:H:182:GLN:HG2	2:H:185:GLN:N	2.31	0.45
2:H:207:THR:O	2:H:208:PRO:C	2.59	0.45
2:H:447:TYR:O	2:H:452:LEU:HD13	2.17	0.45
2:H:545:LEU:HG	2:H:547:LEU:CD2	2.47	0.45
2:H:687:LEU:C	2:H:689:HIS:H	2.25	0.45
2:I:86:LEU:HD23	2:I:86:LEU:C	2.41	0.45
2:I:94:LEU:HB2	2:I:592:PHE:HE1	1.81	0.45
2:I:131:ASN:HA	2:I:212:CYS:SG	2.57	0.45
2:I:274:LEU:HD12	2:I:274:LEU:N	2.30	0.45
2:I:446:LEU:HD23	2:I:446:LEU:HA	1.72	0.45
2:I:656:LEU:HD23	2:I:888:LEU:O	2.17	0.45
2:I:866:LEU:HD23	2:I:866:LEU:C	2.42	0.45
2:J:400:ASP:O	2:J:400:ASP:CG	2.60	0.45
2:J:445:PHE:O	2:J:445:PHE:CD1	2.70	0.45
2:J:593:PHE:HA	2:K:751:TYR:HE2	1.79	0.45
2:J:678:VAL:O	2:J:682:ASP:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:727:TYR:O	2:J:736:LYS:NZ	2.44	0.45
2:J:871:ALA:C	2:J:872:HIS:CG	2.94	0.45
2:K:627:TYR:HB2	2:K:889:LEU:HB3	1.98	0.45
2:L:135:TRP:HB3	2:L:287:SER:HB3	1.99	0.45
2:L:148:PRO:HB2	2:L:181:PRO:HG3	1.97	0.45
2:L:435:ILE:CG2	2:L:436:ASN:N	2.79	0.45
4:N:174:GLN:O	4:N:175:LEU:HB3	2.17	0.45
5:O:62:PHE:O	5:O:66:LEU:CD1	2.65	0.45
5:O:155:LEU:HD21	5:O:173:ILE:HG23	1.99	0.45
5:O:186:SER:OG	5:O:201:ARG:HA	2.17	0.45
6:S:40:VAL:O	6:S:41:ASP:C	2.58	0.45
1:4:24:GLU:O	1:4:24:GLU:CG	2.64	0.44
2:A:220:THR:CA	2:B:788:GLN:OE1	2.65	0.44
2:A:221:ASN:HB2	2:A:225:GLY:N	2.31	0.44
2:A:242:VAL:CG2	2:A:243:ASN:N	2.80	0.44
2:A:374:VAL:HG22	2:A:374:VAL:O	2.16	0.44
2:A:740:LEU:O	2:A:744:LEU:CD1	2.64	0.44
2:B:117:SER:OG	2:C:383:GLU:HA	2.16	0.44
2:B:613:ASP:OD2	2:B:900:ARG:NE	2.50	0.44
2:B:640:ILE:HG21	2:B:874:LEU:HB2	1.97	0.44
2:B:666:SER:O	2:B:667:GLY:C	2.59	0.44
2:C:160:ILE:HB	2:C:170:PRO:CG	2.46	0.44
2:C:313:MET:HB3	2:C:313:MET:HE2	1.42	0.44
2:C:390:CYS:CB	2:C:433:MET:N	2.73	0.44
2:C:436:ASN:O	2:C:437:LEU:C	2.60	0.44
2:C:866:LEU:CD1	7:T:233:ASP:HB2	2.38	0.44
2:D:257:LYS:O	2:D:258:ALA:HB2	2.16	0.44
2:D:339:ASP:CG	2:D:915:ARG:HH12	2.25	0.44
2:D:389:TYR:CB	2:D:391:PHE:CE1	3.01	0.44
2:D:503:ASP:OD1	2:D:503:ASP:C	2.59	0.44
2:D:525:ASN:HB2	2:E:495:ALA:HB3	1.99	0.44
2:D:718:ILE:HG12	2:D:738:TRP:CE2	2.52	0.44
2:E:51:ALA:CB	2:F:855:MET:O	2.65	0.44
2:E:215:SER:HB3	2:F:816:PRO:HB3	1.99	0.44
2:E:506:ASN:HD21	2:E:509:ASN:ND2	2.15	0.44
2:E:649:ARG:NH1	2:E:894:GLU:HB3	2.33	0.44
2:E:712:THR:O	2:E:713:PRO:C	2.60	0.44
2:F:281:ALA:O	2:F:282:GLN:C	2.60	0.44
2:F:390:CYS:O	2:F:391:PHE:CG	2.70	0.44
2:F:523:LEU:O	2:F:529:VAL:HG21	2.17	0.44
2:F:639:SER:HA	2:F:875:ASP:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:780:ASN:ND2	2:F:832:LEU:HD21	2.28	0.44
2:G:216:TYR:O	2:G:267:ILE:HA	2.17	0.44
2:G:220:THR:CG2	2:G:227:ALA:H	2.30	0.44
2:G:249:LEU:CD1	2:G:250:PRO:HD2	2.47	0.44
2:G:471:LYS:HG2	2:G:476:TYR:HE2	1.77	0.44
2:G:545:LEU:HD22	2:G:901:ILE:CD1	2.48	0.44
2:G:661:THR:HG21	2:G:888:LEU:HD11	1.96	0.44
2:G:747:TYR:CZ	2:G:762:ASP:HB2	2.52	0.44
2:G:749:ILE:CD1	2:G:755:TYR:CE1	2.98	0.44
2:G:756:VAL:O	2:G:756:VAL:HG23	2.16	0.44
2:H:177:TYR:CE2	2:H:261:TYR:CZ	3.05	0.44
2:H:302:TYR:HD2	2:H:517:ARG:HA	1.77	0.44
2:H:481:VAL:CG2	2:H:807:PRO:HG3	2.43	0.44
2:H:653:PHE:HE2	2:H:846:ILE:HD11	1.82	0.44
2:I:71:VAL:HG21	2:I:85:THR:HG21	1.99	0.44
2:I:78:TYR:CD2	2:I:668:PHE:HB2	2.52	0.44
2:I:117:SER:CA	2:I:300:PRO:HG3	2.35	0.44
2:I:360:PHE:CD1	2:I:360:PHE:C	2.95	0.44
2:I:399:THR:HG23	2:I:426:GLU:N	2.32	0.44
2:I:467:LEU:HD12	2:I:467:LEU:N	2.31	0.44
2:I:549:PRO:CG	2:I:604:GLU:OE1	2.65	0.44
2:J:109:ARG:O	2:J:527:ARG:NH1	2.39	0.44
2:J:177:TYR:CE2	2:J:178:GLN:HG2	2.51	0.44
2:J:221:ASN:OD1	2:J:230:ILE:HG13	2.16	0.44
2:J:310:ILE:HA	2:J:538:LYS:HZ2	1.82	0.44
2:J:315:TYR:O	2:J:317:SER:N	2.50	0.44
2:J:363:TRP:O	2:J:364:ASN:C	2.60	0.44
2:J:388:ASN:HD22	2:J:437:LEU:CB	2.21	0.44
2:J:617:ASN:ND2	2:L:46:ARG:HH12	2.16	0.44
2:J:687:LEU:HD11	2:J:883:MET:CE	2.45	0.44
2:J:790:VAL:CG2	2:L:226:GLN:NE2	2.77	0.44
2:J:794:PHE:HZ	2:L:175:LYS:CD	2.30	0.44
2:K:204:LYS:HD3	2:K:264:ASN:HD21	1.81	0.44
2:K:250:PRO:HB2	2:K:251:SER:H	1.41	0.44
2:K:268:GLU:CB	2:K:270:PRO:HD3	2.47	0.44
2:K:287:SER:O	2:K:288:ALA:HB3	2.16	0.44
2:K:334:VAL:CG1	2:K:539:PHE:CE2	3.00	0.44
2:L:114:LYS:CD	2:L:298:ASN:HB2	2.48	0.44
2:L:207:THR:O	2:L:208:PRO:C	2.60	0.44
2:L:274:LEU:HD22	2:L:293:GLN:OE1	2.18	0.44
2:L:378:GLU:O	2:L:380:HIS:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:645:TRP:HZ2	2:L:874:LEU:HB2	1.83	0.44
2:L:746:HIS:ND1	2:L:767:PHE:CB	2.79	0.44
3:M:59:ALA:HB1	3:M:60:PRO:HD2	1.98	0.44
3:M:60:PRO:HG2	3:M:62:TYR:HE1	1.81	0.44
3:M:480:ILE:HD11	3:M:494:ALA:CB	2.48	0.44
5:O:158:LEU:CD2	5:O:159:PRO:HD3	2.47	0.44
5:O:208:ASN:OD1	5:O:208:ASN:O	2.35	0.44
6:P:12:PHE:HE2	6:P:17:PHE:HZ	1.66	0.44
6:P:13:LYS:HA	6:P:13:LYS:HD3	1.70	0.44
6:S:25:LEU:HD12	6:S:26:PRO:HD3	1.79	0.44
7:U:14:GLN:HG2	7:U:16:GLN:H	1.82	0.44
7:U:75:PRO:O	7:U:79:VAL:HG12	2.17	0.44
1:1:8:SER:CB	1:1:9:LEU:HD12	2.47	0.44
2:A:23:TYR:C	2:A:24:LEU:HD22	2.42	0.44
2:A:107:LEU:HB3	2:A:529:VAL:CG1	2.46	0.44
2:A:221:ASN:O	2:A:222:GLU:C	2.60	0.44
2:A:522:LEU:HD21	2:B:731:GLN:HB2	1.98	0.44
2:A:636:VAL:HG11	2:A:889:LEU:CD1	2.47	0.44
2:A:688:ASN:HB3	2:A:844:TRP:NE1	2.32	0.44
2:B:121:TYR:OH	2:C:822:PRO:HG3	2.17	0.44
2:B:142:LYS:H	2:B:142:LYS:HG2	1.39	0.44
2:B:260:LEU:HD23	2:B:260:LEU:HA	1.78	0.44
2:B:268:GLU:HB3	2:B:270:PRO:HD2	1.98	0.44
2:B:529:VAL:HG22	2:B:530:PRO:O	2.17	0.44
2:B:545:LEU:HD12	2:B:546:LEU:H	1.80	0.44
2:B:797:ASN:CB	2:B:819:TYR:CZ	3.00	0.44
2:C:64:LEU:CD1	2:C:594:PRO:HG3	2.40	0.44
2:C:154:ILE:HD12	2:C:259:VAL:CG1	2.47	0.44
2:C:268:GLU:O	2:C:269:ALA:CB	2.64	0.44
2:C:632:ASN:OD1	2:C:884:ASP:HA	2.17	0.44
2:C:738:TRP:O	2:C:739:PHE:HB3	2.17	0.44
2:C:738:TRP:CE3	2:C:741:ILE:HD12	2.52	0.44
2:D:467:LEU:HB3	2:D:476:TYR:HD1	1.82	0.44
2:D:542:ILE:HG22	2:D:542:ILE:O	2.17	0.44
2:D:731:GLN:H	2:D:731:GLN:CD	2.08	0.44
2:E:144:ARG:HB3	2:E:145:GLY:H	1.24	0.44
2:E:191:GLU:O	2:E:192:VAL:C	2.61	0.44
2:E:218:LYS:HZ2	2:F:786:GLU:HG2	1.81	0.44
2:E:285:ILE:HG13	2:E:286:SER:N	2.32	0.44
2:E:762:ASP:OD2	2:E:768:PHE:CB	2.65	0.44
2:F:102:ASP:O	2:F:102:ASP:OD1	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:337:LEU:HD11	2:F:920:ALA:HB3	1.98	0.44
2:F:349:MET:HE2	2:F:543:LYS:HZ2	1.81	0.44
2:F:547:LEU:O	2:F:548:LEU:HD23	2.16	0.44
2:G:94:LEU:HD13	2:G:590:ALA:HB1	1.99	0.44
2:G:190:SER:C	2:G:191:GLU:HG3	2.42	0.44
2:G:220:THR:HG21	2:G:227:ALA:C	2.42	0.44
2:G:291:LEU:O	2:G:291:LEU:CD2	2.59	0.44
2:G:490:TYR:HE1	2:G:819:TYR:HD2	1.63	0.44
2:G:768:PHE:CZ	2:I:360:PHE:HB2	2.51	0.44
2:G:895:VAL:HG12	2:G:917:PRO:CB	2.47	0.44
2:H:162:ILE:O	2:H:162:ILE:CG2	2.65	0.44
2:H:336:ASP:OD1	2:H:337:LEU:O	2.35	0.44
2:H:485:SER:HA	2:H:490:TYR:HH	1.80	0.44
2:H:522:LEU:HD23	2:H:522:LEU:O	2.17	0.44
2:H:630:PRO:HB3	6:R:12:PHE:HE1	1.71	0.44
2:I:133:CYS:O	2:I:134:GLU:HB2	2.16	0.44
2:I:271:ASP:OD1	2:I:272:THR:HG23	2.18	0.44
2:I:410:GLN:NE2	2:I:410:GLN:C	2.75	0.44
2:I:539:PHE:HD1	2:I:541:ALA:H	1.64	0.44
2:I:660:GLU:C	2:I:661:THR:HG23	2.42	0.44
2:I:662:PRO:CB	2:I:672:PHE:CE2	3.00	0.44
2:I:774:MET:HE1	2:I:838:LEU:HD12	1.99	0.44
2:I:810:ARG:O	2:I:810:ARG:HD2	2.17	0.44
2:J:175:LYS:HZ3	2:J:175:LYS:HA	1.81	0.44
2:J:382:VAL:HG13	2:J:438:ALA:O	2.17	0.44
2:J:407:ALA:O	2:J:411:THR:N	2.37	0.44
2:J:505:VAL:O	2:J:506:ASN:C	2.61	0.44
2:J:516:LEU:HA	2:J:519:ARG:NE	2.33	0.44
2:K:135:TRP:CB	2:K:141:ILE:HB	2.46	0.44
2:K:228:SER:O	2:K:229:LEU:HB2	2.17	0.44
2:K:247:PHE:HB3	2:K:248:ALA:H	1.61	0.44
2:K:435:ILE:CG2	2:K:436:ASN:N	2.80	0.44
2:L:59:ASP:O	2:L:59:ASP:CG	2.61	0.44
2:L:83:ARG:CZ	2:L:83:ARG:HB3	2.47	0.44
2:L:315:TYR:HB3	2:L:342:THR:HG22	1.99	0.44
2:L:461:THR:O	2:L:461:THR:HG23	2.17	0.44
3:M:105:GLY:CA	3:M:475:VAL:HG23	2.48	0.44
3:M:132:ILE:HG22	3:M:139:ASN:HB2	1.96	0.44
3:M:225:GLY:C	3:M:226:VAL:HG23	2.42	0.44
5:O:76:PRO:O	5:O:77:THR:C	2.60	0.44
6:S:28:TRP:O	6:S:28:TRP:HD1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:26:GLY:O	1:5:28:SER:N	2.50	0.44
1:8:12:ARG:NH1	2:A:621:CYS:CB	2.52	0.44
2:A:544:ASN:O	2:A:616:PHE:CE2	2.71	0.44
2:A:544:ASN:O	2:A:616:PHE:CZ	2.71	0.44
2:A:660:GLU:O	2:A:661:THR:OG1	2.27	0.44
2:B:143:VAL:HG22	2:B:144:ARG:N	2.32	0.44
2:B:255:GLU:C	2:B:255:GLU:OE2	2.60	0.44
2:B:330:GLN:NE2	2:B:330:GLN:CA	2.67	0.44
2:B:858:LEU:O	2:B:858:LEU:CD2	2.62	0.44
2:C:95:ASP:C	2:C:95:ASP:OD1	2.59	0.44
2:C:126:PRO:O	2:C:127:LYS:C	2.60	0.44
2:C:545:LEU:HA	2:C:616:PHE:CE2	2.52	0.44
2:C:579:ALA:HB1	2:C:580:SER:H	1.50	0.44
2:C:714:ASN:O	2:C:714:ASN:CG	2.58	0.44
2:C:740:LEU:O	2:C:744:LEU:HB3	2.17	0.44
2:D:497:TRP:CH2	2:D:836:LYS:HE3	2.52	0.44
2:E:81:LYS:HE2	2:E:555:GLU:OE1	2.17	0.44
2:E:360:PHE:HA	2:F:768:PHE:CZ	2.51	0.44
2:E:696:ILE:HG21	2:E:704:TRP:HB3	1.99	0.44
2:E:729:VAL:HB	2:E:736:LYS:CG	2.47	0.44
2:E:779:VAL:C	2:E:781:THR:H	2.23	0.44
2:F:108:ASP:OD1	2:F:108:ASP:C	2.61	0.44
2:G:65:THR:HG23	2:H:711:LEU:HD13	1.99	0.44
2:G:125:ALA:CB	2:H:801:PHE:HE2	2.30	0.44
2:G:178:GLN:H	2:G:179:PRO:HD3	1.81	0.44
2:G:246:PHE:HA	2:G:259:VAL:O	2.16	0.44
2:G:654:THR:HG21	2:G:685:PHE:CG	2.52	0.44
2:H:24:LEU:HD11	2:H:45:PHE:CD2	2.53	0.44
2:H:178:GLN:O	2:H:179:PRO:C	2.60	0.44
2:H:205:ASP:O	2:H:205:ASP:CG	2.57	0.44
2:H:351:ASP:OD2	2:H:765:TYR:N	2.44	0.44
2:H:447:TYR:C	2:H:447:TYR:CD1	2.95	0.44
2:H:549:PRO:CG	2:H:604:GLU:OE1	2.65	0.44
2:H:569:SER:C	2:H:570:LEU:HD23	2.43	0.44
2:H:618:ASP:OD1	2:H:618:ASP:C	2.61	0.44
2:H:747:TYR:HE1	2:H:767:PHE:HB3	1.81	0.44
2:H:817:ALA:O	2:H:818:ASN:HB3	2.17	0.44
2:H:848:PHE:CE2	2:H:861:LEU:HD23	2.53	0.44
2:I:7:MET:N	2:I:8:PRO:CD	2.80	0.44
2:I:173:ALA:HB3	2:I:174:ASP:H	1.59	0.44
2:I:180:GLU:O	2:I:180:GLU:CG	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:216:TYR:O	2:I:267:ILE:HD12	2.17	0.44
2:I:323:VAL:HG12	2:I:332:ASN:CB	2.43	0.44
2:I:424:GLU:C	2:I:425:ILE:HG13	2.42	0.44
2:I:534:GLN:CD	2:I:534:GLN:N	2.75	0.44
2:I:650:GLY:C	2:I:894:GLU:OE1	2.60	0.44
2:I:837:PHE:O	2:I:838:LEU:C	2.59	0.44
2:J:134:GLU:HG3	2:J:142:LYS:NZ	2.32	0.44
2:J:374:VAL:HG22	2:J:374:VAL:O	2.17	0.44
2:J:406:LYS:HB2	2:J:412:TRP:CA	2.47	0.44
2:J:516:LEU:CD1	2:J:519:ARG:HH21	2.25	0.44
2:J:743:MET:CE	2:J:749:ILE:HD11	2.44	0.44
2:J:874:LEU:HD23	2:J:874:LEU:C	2.42	0.44
2:K:28:LEU:CA	2:L:606:MET:CE	2.95	0.44
2:K:65:THR:O	2:K:65:THR:HG23	2.17	0.44
2:K:99:THR:HG23	2:K:588:LEU:CD1	2.41	0.44
2:K:205:ASP:OD1	2:K:205:ASP:C	2.59	0.44
2:K:447:TYR:CE2	2:L:386:LEU:HD11	2.51	0.44
2:K:922:ASN:ND2	7:T:34:LEU:CD1	2.71	0.44
2:L:76:THR:HG22	2:L:77:ALA:N	2.32	0.44
2:L:112:SER:HB2	2:L:474:TYR:CG	2.52	0.44
2:L:379:ASN:ND2	2:L:442:TRP:HE1	2.15	0.44
2:L:559:ARG:HD3	2:L:564:MET:SD	2.57	0.44
2:L:627:TYR:HE2	2:L:638:ILE:CD1	2.29	0.44
2:L:780:ASN:HD22	2:L:832:LEU:CD1	2.30	0.44
3:M:189:LEU:HA	3:M:193:ARG:HG3	1.95	0.44
3:M:222:VAL:HG23	3:M:282:LEU:HA	1.95	0.44
6:R:17:PHE:H	6:R:19:PRO:HD3	1.82	0.44
6:S:31:VAL:O	6:S:31:VAL:CG2	2.65	0.44
7:T:189:ILE:HD12	7:T:193:GLN:C	2.43	0.44
7:U:11:TRP:HB3	7:U:194:PHE:HZ	1.82	0.44
1:1:12:ARG:O	1:1:12:ARG:CG	2.65	0.44
2:A:229:LEU:HD23	2:A:229:LEU:H	1.82	0.44
2:A:363:TRP:HZ3	2:A:534:GLN:HB3	1.83	0.44
2:A:493:ILE:CD1	2:C:120:ALA:HB2	2.48	0.44
2:A:788:GLN:NE2	2:C:222:GLU:N	2.65	0.44
2:B:76:THR:OG1	2:B:79:SER:N	2.49	0.44
2:B:205:ASP:HB2	2:B:206:THR:H	1.28	0.44
2:B:481:VAL:HG22	2:B:482:ALA:N	2.32	0.44
2:B:609:ASN:HD22	5:O:24:SER:CB	2.27	0.44
2:B:669:ASP:OD1	2:B:671:TYR:N	2.42	0.44
2:B:732:CYS:HB2	2:B:773:PRO:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:824:ILE:CG2	2:B:825:GLY:H	2.30	0.44
2:B:851:ASN:C	2:B:853:MET:N	2.75	0.44
2:B:917:PRO:CD	2:B:918:PHE:N	2.60	0.44
2:C:315:TYR:OH	2:C:537:GLN:OE1	2.31	0.44
2:C:330:GLN:HB2	2:J:67:ARG:O	2.18	0.44
2:C:334:VAL:O	2:C:334:VAL:HG12	2.17	0.44
2:C:588:LEU:O	2:C:589:TYR:HB2	2.16	0.44
2:C:722:VAL:HG22	2:C:723:ASP:N	2.32	0.44
2:C:725:GLU:N	2:C:725:GLU:CD	2.71	0.44
2:C:821:TYR:N	2:C:821:TYR:CD1	2.86	0.44
2:C:885:GLU:O	2:C:886:PRO:C	2.59	0.44
2:D:147:ALA:HA	2:D:200:GLY:HA2	1.98	0.44
2:D:279:ASP:CA	2:D:464:ASN:HD21	2.25	0.44
2:D:516:LEU:HD21	2:D:569:SER:CA	2.47	0.44
2:D:589:TYR:CD2	2:E:736:LYS:HE2	2.53	0.44
2:D:621:CYS:HB2	2:D:649:ARG:HH22	1.82	0.44
2:D:678:VAL:C	2:D:680:TYR:H	2.24	0.44
2:E:3:THR:HG1	2:E:6:MET:N	2.14	0.44
2:E:78:TYR:HE2	2:E:668:PHE:CG	2.35	0.44
2:E:349:MET:HE1	2:E:543:LYS:NZ	2.31	0.44
2:E:403:SER:HA	2:F:249:LEU:H	1.82	0.44
2:E:449:ASN:HD21	2:E:512:ARG:NE	2.16	0.44
2:E:452:LEU:HA	2:E:482:ALA:HB2	1.99	0.44
2:E:657:LYS:HD2	2:E:686:TYR:HH	1.82	0.44
2:E:741:ILE:CD1	2:E:852:PHE:CD2	2.91	0.44
2:E:765:TYR:HD1	2:E:841:ARG:HG2	1.82	0.44
2:E:889:LEU:C	2:E:889:LEU:CD2	2.81	0.44
2:F:174:ASP:CG	2:F:223:LYS:HD2	2.42	0.44
2:F:456:ASP:OD1	2:F:480:ARG:HD3	2.18	0.44
2:F:613:ASP:OD2	2:F:900:ARG:NE	2.50	0.44
2:F:620:LEU:O	2:F:620:LEU:HG	2.17	0.44
2:F:636:VAL:HG11	2:F:889:LEU:HD11	1.98	0.44
2:F:720:ARG:NH1	2:F:720:ARG:HG3	2.32	0.44
2:G:65:THR:HB	2:G:591:ASN:OD1	2.17	0.44
2:G:95:ASP:C	2:G:95:ASP:OD1	2.58	0.44
2:G:178:GLN:N	2:G:179:PRO:HD2	2.31	0.44
2:G:306:ARG:HD2	2:G:310:ILE:CG2	2.47	0.44
2:G:306:ARG:HB3	2:G:310:ILE:HG22	1.99	0.44
2:G:391:PHE:CB	2:G:392:PRO:HD2	2.47	0.44
2:G:502:MET:HG2	2:G:502:MET:O	2.16	0.44
2:G:865:MET:HE3	2:G:869:ASN:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:121:TYR:O	2:H:122:ASN:C	2.61	0.44
2:H:657:LYS:HB2	2:H:660:GLU:OE1	2.16	0.44
2:H:678:VAL:HG11	2:H:681:LEU:HD23	1.99	0.44
2:I:131:ASN:ND2	2:I:203:LEU:HD22	2.33	0.44
2:I:156:LYS:CD	2:I:246:PHE:HE2	2.27	0.44
2:I:249:LEU:CD2	2:I:250:PRO:HD2	2.33	0.44
2:I:312:LEU:HD23	2:I:312:LEU:HA	1.82	0.44
2:I:792:LEU:O	2:I:795:GLN:HG2	2.18	0.44
2:J:226:GLN:HB3	2:J:227:ALA:H	1.30	0.44
2:J:227:ALA:HB1	2:J:229:LEU:N	2.31	0.44
2:J:402:TYR:CZ	2:K:249:LEU:HD22	2.52	0.44
2:J:425:ILE:HD12	2:J:425:ILE:HA	1.86	0.44
2:J:698:PHE:HB2	2:J:702:VAL:HG23	1.98	0.44
2:K:7:MET:SD	2:K:12:TYR:HA	2.57	0.44
2:K:137:ASP:C	2:K:139:ASN:H	2.25	0.44
2:K:302:TYR:HE2	2:K:517:ARG:HG3	1.82	0.44
2:L:688:ASN:OD1	2:L:688:ASN:C	2.60	0.44
2:L:720:ARG:NH1	2:L:723:ASP:HB3	2.32	0.44
3:M:138:THR:O	3:M:139:ASN:HB3	2.18	0.44
3:M:417:ALA:O	3:M:447:ALA:HB3	2.16	0.44
4:N:173:MET:HE3	4:N:173:MET:HB3	1.65	0.44
6:Q:41:ASP:HB3	6:Q:43:ARG:NH1	2.33	0.44
7:T:189:ILE:HD11	7:T:194:PHE:HA	1.98	0.44
7:T:221:ASN:HB2	7:T:229:VAL:HG23	1.98	0.44
1:6:12:ARG:HB3	2:J:619:TYR:CD1	2.52	0.44
1:8:16:ARG:NH2	2:C:19:ASP:OD2	2.51	0.44
2:A:57:THR:HA	2:A:594:PRO:O	2.18	0.44
2:A:80:TYR:HB3	2:A:558:PHE:CB	2.31	0.44
2:A:747:TYR:O	2:A:749:ILE:HG23	2.17	0.44
2:A:815:TYR:CD2	2:A:816:PRO:CD	2.92	0.44
2:A:890:TYR:CE2	2:A:892:LEU:HD21	2.50	0.44
2:B:86:LEU:N	2:B:552:TYR:O	2.51	0.44
2:B:156:LYS:C	2:B:158:ASN:H	2.26	0.44
2:B:186:THR:O	2:B:187:GLN:C	2.60	0.44
2:B:490:TYR:CD1	2:B:490:TYR:O	2.70	0.44
2:B:648:PHE:HE2	2:B:651:TRP:CZ3	2.35	0.44
2:B:689:HIS:HA	2:B:837:PHE:CE1	2.52	0.44
2:B:853:MET:HB3	2:B:854:SER:H	1.40	0.44
2:C:94:LEU:HD23	2:C:94:LEU:C	2.42	0.44
2:C:107:LEU:HD12	2:C:580:SER:HA	2.00	0.44
2:C:309:PHE:CD1	2:C:364:ASN:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:309:PHE:CZ	2:C:533:ILE:HB	2.50	0.44
2:C:488:ASP:C	2:C:490:TYR:N	2.75	0.44
2:D:78:TYR:CG	2:D:668:PHE:HB2	2.53	0.44
2:D:79:SER:HA	2:D:558:PHE:O	2.17	0.44
2:D:348:LEU:O	2:D:619:TYR:HE2	2.01	0.44
2:D:417:ASN:O	2:D:418:TYR:C	2.60	0.44
2:D:450:VAL:HG11	2:D:499:PRO:HG3	1.97	0.44
2:D:463:ASP:OD1	2:D:463:ASP:C	2.61	0.44
2:D:533:ILE:HG22	2:D:534:GLN:C	2.43	0.44
2:D:563:ASN:HD21	2:D:574:LEU:H	1.64	0.44
2:D:694:VAL:HG23	2:D:878:PHE:CE1	2.53	0.44
2:D:720:ARG:O	2:D:720:ARG:HG3	2.16	0.44
2:D:797:ASN:OD1	2:D:798:ASN:N	2.50	0.44
2:E:86:LEU:HB2	2:E:552:TYR:O	2.18	0.44
2:E:567:GLN:CG	2:E:568:SER:N	2.81	0.44
2:E:729:VAL:O	2:E:730:ALA:C	2.59	0.44
2:E:797:ASN:O	2:E:797:ASN:CG	2.52	0.44
2:F:504:ASN:O	2:F:686:TYR:HE2	2.01	0.44
2:F:548:LEU:HD11	2:F:607:LEU:HB2	1.99	0.44
2:F:588:LEU:C	2:F:589:TYR:HD1	2.25	0.44
2:F:642:SER:CA	2:F:873:ALA:HB2	2.47	0.44
2:F:693:LYS:N	2:F:879:GLU:HB2	2.33	0.44
2:G:84:PHE:CE2	2:G:588:LEU:HB2	2.53	0.44
2:G:216:TYR:HE1	2:G:218:LYS:HG2	1.82	0.44
2:G:243:ASN:O	2:G:244:LEU:C	2.60	0.44
2:G:302:TYR:N	2:G:302:TYR:CD1	2.83	0.44
2:G:332:ASN:C	2:G:333:ALA:O	2.59	0.44
2:G:390:CYS:CB	2:I:435:ILE:CD1	2.88	0.44
2:G:543:LYS:HB3	2:G:543:LYS:HE2	1.72	0.44
2:G:643:ARG:CZ	2:G:643:ARG:HB3	2.47	0.44
2:G:709:ARG:HH11	2:G:709:ARG:CG	2.29	0.44
2:G:897:ASP:OD1	2:G:897:ASP:C	2.57	0.44
2:H:25:SER:OG	2:I:612:ASN:ND2	2.51	0.44
2:H:114:LYS:NZ	2:H:298:ASN:O	2.38	0.44
2:H:182:GLN:NE2	2:H:182:GLN:CA	2.80	0.44
2:H:329:SER:HA	2:L:90:ASP:H	1.83	0.44
2:H:353:LEU:O	2:H:353:LEU:CG	2.65	0.44
2:H:681:LEU:O	2:H:681:LEU:HG	2.17	0.44
2:I:405:ILE:H	2:I:405:ILE:HG22	1.49	0.44
2:I:554:TYR:HD2	2:I:588:LEU:HD11	1.82	0.44
2:I:571:GLY:HA2	2:I:676:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:86:LEU:O	2:J:86:LEU:CG	2.64	0.44
2:J:202:VAL:H	2:J:202:VAL:HG22	1.47	0.44
2:J:516:LEU:CD2	2:J:569:SER:HB3	2.48	0.44
2:J:545:LEU:CD2	2:J:901:ILE:HD13	2.39	0.44
2:J:892:LEU:O	2:J:893:PHE:C	2.59	0.44
2:K:291:LEU:O	2:K:293:GLN:N	2.50	0.44
2:K:752:GLN:NE2	2:L:39:PHE:HA	2.33	0.44
2:L:72:ASP:OD1	2:L:72:ASP:C	2.61	0.44
3:M:406:PRO:O	3:M:456:ASN:HA	2.17	0.44
3:M:408:HIS:CE1	3:M:457:VAL:CG2	3.01	0.44
3:M:443:VAL:O	3:M:444:ARG:C	2.61	0.44
5:O:155:LEU:HD21	5:O:173:ILE:CG2	2.47	0.44
5:O:172:PHE:CZ	5:O:247:ILE:HD11	2.53	0.44
5:O:187:GLU:OE1	5:O:200:SER:HA	2.17	0.44
6:P:38:SER:N	6:P:45:VAL:HG12	2.33	0.44
7:U:207:PHE:C	7:U:214:TYR:HE1	2.25	0.44
7:U:221:ASN:OD1	7:U:229:VAL:HG13	2.16	0.44
1:1:13:HIS:C	1:1:15:SER:H	2.26	0.44
2:A:13:MET:O	2:A:15:ILE:N	2.50	0.44
2:A:19:ASP:O	2:A:23:TYR:HD1	2.01	0.44
2:A:506:ASN:HB3	2:A:509:ASN:ND2	2.32	0.44
2:A:519:ARG:NH1	2:A:567:GLN:HE21	2.15	0.44
2:A:545:LEU:O	2:A:546:LEU:C	2.60	0.44
2:A:620:LEU:O	2:A:622:ALA:N	2.51	0.44
2:A:620:LEU:HD12	2:A:620:LEU:C	2.42	0.44
2:A:629:ILE:CB	2:A:887:THR:HG23	2.43	0.44
2:B:100:TYR:HD2	2:B:363:TRP:HH2	1.60	0.44
2:B:171:ILE:CG2	2:B:174:ASP:HB3	2.48	0.44
2:B:174:ASP:OD1	2:B:174:ASP:C	2.59	0.44
2:B:895:VAL:CB	2:B:917:PRO:CG	2.94	0.44
2:C:310:ILE:HG12	2:C:343:GLU:OE1	2.17	0.44
2:C:335:VAL:HB	2:C:913:TYR:CD2	2.52	0.44
2:C:440:ASN:O	2:C:442:TRP:N	2.50	0.44
2:C:697:MET:O	2:C:874:LEU:HD12	2.18	0.44
2:C:739:PHE:O	2:C:739:PHE:CD1	2.71	0.44
2:D:70:PRO:HA	2:D:84:PHE:CE1	2.52	0.44
2:D:153:ASN:OD1	2:D:153:ASN:O	2.36	0.44
2:D:155:ASN:HB3	2:D:158:ASN:ND2	2.32	0.44
2:D:185:GLN:O	2:D:186:THR:OG1	2.36	0.44
2:D:649:ARG:HH11	2:D:649:ARG:HG3	1.83	0.44
2:D:816:PRO:HB3	2:D:817:ALA:H	1.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:861:LEU:HD23	2:D:864:ASN:HB2	2.00	0.44
2:E:62:GLN:HE22	2:E:597:HIS:HE1	1.66	0.44
2:E:121:TYR:HE2	2:E:216:TYR:CD2	2.36	0.44
2:E:160:ILE:O	2:E:170:PRO:HD3	2.16	0.44
2:E:355:ASP:OD1	2:E:355:ASP:C	2.61	0.44
2:E:678:VAL:O	2:E:682:ASP:N	2.50	0.44
2:E:702:VAL:HB	2:E:703:SER:H	1.63	0.44
2:E:703:SER:O	2:E:705:PRO:HB2	2.17	0.44
2:E:793:PRO:O	2:E:794:PHE:C	2.61	0.44
2:F:154:ILE:CD1	2:F:259:VAL:HB	2.47	0.44
2:F:157:ASP:C	2:F:158:ASN:CG	2.83	0.44
2:F:174:ASP:O	2:F:175:LYS:C	2.60	0.44
2:F:625:MET:CE	6:Q:24:ARG:HH12	2.31	0.44
2:F:792:LEU:HD22	2:F:792:LEU:HA	1.70	0.44
2:G:216:TYR:CE1	2:G:218:LYS:HG2	2.52	0.44
2:G:249:LEU:HD21	2:G:250:PRO:HD2	1.87	0.44
2:G:656:LEU:HD23	2:G:679:PRO:CG	2.31	0.44
2:G:682:ASP:HB3	2:G:684:THR:HG23	2.00	0.44
2:G:690:THR:HG1	2:G:881:ASP:HB2	1.81	0.44
2:G:693:LYS:CE	2:G:715:GLU:CD	2.89	0.44
2:G:788:GLN:NE2	2:I:221:ASN:C	2.76	0.44
2:G:815:TYR:CE2	2:I:203:LEU:HD11	2.52	0.44
2:H:178:GLN:OE1	2:H:178:GLN:CA	2.63	0.44
2:H:476:TYR:OH	2:H:480:ARG:NH1	2.51	0.44
2:H:697:MET:HA	2:H:703:SER:HA	1.99	0.44
2:H:713:PRO:O	2:H:714:ASN:ND2	2.51	0.44
2:H:770:ASN:ND2	2:H:841:ARG:HB3	2.32	0.44
2:I:67:ARG:HG3	2:I:589:TYR:CE1	2.52	0.44
2:J:116:TYR:HE1	2:J:271:ASP:HB3	1.83	0.44
2:J:289:ASP:O	2:J:289:ASP:OD1	2.35	0.44
2:J:324:LEU:HD12	2:J:324:LEU:HA	1.64	0.44
2:J:339:ASP:O	2:J:339:ASP:OD1	2.35	0.44
2:J:624:ASN:ND2	2:J:892:LEU:HD11	2.33	0.44
2:J:699:ASP:C	2:J:701:SER:H	2.26	0.44
2:K:223:LYS:O	2:L:794:PHE:HB3	2.18	0.44
2:K:799:SER:HB2	2:K:814:ALA:C	2.42	0.44
2:K:848:PHE:CD2	2:K:861:LEU:HB3	2.52	0.44
2:L:18:GLN:OE1	2:L:22:GLU:HG2	2.18	0.44
2:L:334:VAL:HG23	2:L:539:PHE:CE1	2.52	0.44
2:L:624:ASN:HA	2:L:892:LEU:HA	1.99	0.44
2:L:784:TYR:HE1	2:L:786:GLU:C	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:143:THR:CB	5:O:147:SER:OG	2.65	0.44
6:S:3:GLY:O	6:S:4:SER:CB	2.66	0.44
10:Y:3:UNK:O	10:Y:4:UNK:C	2.65	0.44
2:A:68:PHE:O	2:A:69:VAL:C	2.61	0.44
2:A:114:LYS:HG3	2:B:824:ILE:HG21	2.00	0.44
2:A:660:GLU:C	2:A:661:THR:HG23	2.42	0.44
2:A:693:LYS:NZ	2:A:715:GLU:OE2	2.45	0.44
2:A:756:VAL:HG23	2:A:768:PHE:CE2	2.52	0.44
2:A:773:PRO:C	2:A:774:MET:HG3	2.42	0.44
2:B:19:ASP:HA	2:B:48:PRO:HD2	1.99	0.44
2:B:202:VAL:O	2:B:203:LEU:C	2.60	0.44
2:B:223:LYS:HA	2:C:794:PHE:CE2	2.52	0.44
2:B:548:LEU:HB3	2:B:549:PRO:CD	2.47	0.44
2:B:763:ARG:HH11	2:B:763:ARG:HG2	1.83	0.44
2:B:847:PRO:O	2:B:847:PRO:CG	2.60	0.44
2:B:895:VAL:CG1	2:B:917:PRO:HG3	2.47	0.44
2:C:24:LEU:HD21	2:C:45:PHE:HD2	1.82	0.44
2:C:96:MET:CA	2:C:99:THR:HG22	2.47	0.44
2:C:306:ARG:HA	2:C:306:ARG:HD2	1.73	0.44
2:C:356:ARG:HG2	2:C:367:VAL:CG2	2.48	0.44
2:C:382:VAL:HG22	2:C:438:ALA:O	2.17	0.44
2:C:654:THR:HG21	2:C:685:PHE:CD2	2.53	0.44
2:C:866:LEU:HD12	2:C:866:LEU:O	2.18	0.44
2:C:895:VAL:HG21	2:C:917:PRO:O	2.18	0.44
2:D:101:PHE:O	2:D:102:ASP:C	2.58	0.44
2:D:141:ILE:O	2:D:142:LYS:HB2	2.17	0.44
2:D:175:LYS:O	2:D:176:THR:HG23	2.18	0.44
2:D:265:VAL:O	2:D:266:SER:OG	2.30	0.44
2:D:299:ARG:HE	2:D:299:ARG:HB3	1.57	0.44
2:D:300:PRO:HB2	2:D:511:HIS:HB2	1.98	0.44
2:D:309:PHE:HE1	2:D:364:ASN:N	2.15	0.44
2:D:398:ALA:HB1	2:D:425:ILE:C	2.43	0.44
2:D:698:PHE:HE2	2:D:867:TYR:CE2	2.36	0.44
2:D:721:THR:HB	2:D:722:VAL:H	1.39	0.44
2:D:878:PHE:CG	2:D:889:LEU:HD21	2.53	0.44
2:E:337:LEU:HG	2:E:340:ARG:NH1	2.33	0.44
2:E:500:ASP:N	2:E:501:PRO:CD	2.81	0.44
2:F:276:TYR:HE2	2:F:292:THR:HG21	1.82	0.44
2:F:360:PHE:CD1	2:F:361:SER:N	2.83	0.44
2:F:625:MET:CE	2:F:893:PHE:HE2	2.30	0.44
2:F:655:ARG:NE	2:F:880:VAL:HG11	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:666:SER:HB2	6:Q:29:ALA:HB2	2.00	0.44
2:F:866:LEU:O	2:F:866:LEU:HG	2.16	0.44
2:F:899:VAL:HG23	2:F:913:TYR:CE1	2.53	0.44
2:F:904:PRO:HD2	2:F:908:VAL:CG1	2.47	0.44
2:G:7:MET:O	2:G:10:TRP:N	2.50	0.44
2:G:299:ARG:HH11	2:G:299:ARG:CG	2.20	0.44
2:G:488:ASP:CG	2:G:489:THR:N	2.76	0.44
2:G:686:TYR:CE2	2:G:687:LEU:HD21	2.52	0.44
2:G:711:LEU:O	2:G:711:LEU:CD1	2.65	0.44
2:G:788:GLN:NE2	2:I:220:THR:O	2.38	0.44
2:G:813:GLN:OE1	2:I:146:GLN:NE2	2.49	0.44
2:H:109:ARG:NE	2:H:113:PHE:CE2	2.86	0.44
2:H:437:LEU:CD1	2:I:437:LEU:HD11	2.48	0.44
2:H:624:ASN:ND2	2:H:680:TYR:CE1	2.86	0.44
2:H:865:MET:HG3	2:H:869:ASN:ND2	2.33	0.44
2:I:37:THR:HG23	2:I:38:TYR:CD2	2.53	0.44
2:I:102:ASP:HB3	2:I:589:TYR:CD2	2.53	0.44
2:I:149:PHE:HD2	2:I:160:ILE:HD13	1.80	0.44
2:I:573:ASP:OD1	2:I:573:ASP:C	2.60	0.44
2:J:72:ASP:OD1	2:J:72:ASP:C	2.61	0.44
2:J:255:GLU:O	2:J:256:PRO:C	2.61	0.44
2:J:810:ARG:HH12	2:K:430:ILE:CG1	2.30	0.44
2:J:898:VAL:HG11	2:L:13:MET:HB3	1.98	0.44
2:K:9:GLN:NE2	7:U:16:GLN:CA	2.59	0.44
2:K:95:ASP:OD1	2:K:95:ASP:C	2.61	0.44
2:K:249:LEU:O	2:K:250:PRO:C	2.61	0.44
2:K:483:VAL:CG1	2:K:805:MET:HE3	2.47	0.44
2:K:608:ARG:HH12	2:K:906:ARG:CB	2.31	0.44
2:K:651:TRP:HZ3	2:K:704:TRP:CE3	2.35	0.44
2:K:719:LYS:HD3	2:K:733:ASN:HD21	1.83	0.44
2:K:740:LEU:O	2:K:744:LEU:HB3	2.17	0.44
2:L:14:HIS:HB2	2:L:46:ARG:HG3	2.00	0.44
2:L:211:PRO:HG3	2:L:295:ALA:HB2	2.00	0.44
2:L:272:THR:HG22	2:L:273:HIS:O	2.18	0.44
2:L:342:THR:O	2:L:345:SER:HB3	2.17	0.44
2:L:627:TYR:HD2	2:L:638:ILE:HG21	1.82	0.44
3:M:88:ASN:OD1	3:M:479:THR:CG2	2.66	0.44
6:S:50:SER:OG	6:S:51:ALA:N	2.50	0.44
7:T:14:GLN:NE2	7:T:17:MET:HE3	2.33	0.44
7:T:194:PHE:HE1	7:T:198:PHE:CD2	2.36	0.44
1:7:12:ARG:NH1	1:7:12:ARG:HG3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:12:TYR:O	2:A:13:MET:HG2	2.18	0.44
2:A:216:TYR:OH	2:A:219:PRO:HD2	2.18	0.44
2:A:224:GLY:CA	2:B:790:VAL:HG11	2.48	0.44
2:A:265:VAL:HB	2:A:266:SER:H	1.47	0.44
2:A:279:ASP:O	2:A:280:VAL:HB	2.16	0.44
2:A:487:LEU:CD1	2:A:499:PRO:HG2	2.24	0.44
2:A:544:ASN:HB3	2:A:616:PHE:HE2	1.78	0.44
2:A:613:ASP:HB3	2:A:901:ILE:O	2.18	0.44
2:A:662:PRO:HD3	2:A:672:PHE:CE2	2.52	0.44
2:A:662:PRO:N	2:A:672:PHE:HE2	2.16	0.44
2:A:897:ASP:O	2:A:897:ASP:OD1	2.35	0.44
2:B:13:MET:HG3	2:C:914:LEU:HD13	2.00	0.44
2:B:46:ARG:HH11	2:B:46:ARG:CG	2.30	0.44
2:B:334:VAL:HG21	2:B:542:ILE:HD11	1.98	0.44
2:B:369:SER:OG	2:B:370:TYR:N	2.49	0.44
2:B:749:ILE:HD11	2:B:755:TYR:O	2.16	0.44
2:B:843:MET:HG3	2:B:843:MET:O	2.17	0.44
2:C:337:LEU:N	2:C:337:LEU:CD2	2.71	0.44
2:C:738:TRP:C	2:C:740:LEU:N	2.68	0.44
2:D:496:ARG:NH1	2:F:518:TYR:HE1	2.15	0.44
2:D:509:ASN:HD21	2:D:676:GLY:CA	2.25	0.44
2:D:624:ASN:OD1	2:D:890:TYR:CZ	2.71	0.44
2:D:651:TRP:HH2	2:D:704:TRP:HB2	1.82	0.44
2:D:669:ASP:O	2:D:669:ASP:OD1	2.35	0.44
2:D:746:HIS:CE1	2:D:767:PHE:HB2	2.53	0.44
2:D:899:VAL:HG22	2:D:900:ARG:N	2.32	0.44
2:D:911:ALA:O	2:D:924:THR:HA	2.18	0.44
2:E:67:ARG:CG	2:E:589:TYR:CE1	2.97	0.44
2:E:153:ASN:HB3	2:E:161:GLN:HG3	1.99	0.44
2:E:223:LYS:HD2	2:F:794:PHE:CE2	2.53	0.44
2:E:278:PRO:HG2	2:E:290:LEU:HA	1.99	0.44
2:E:288:ALA:O	2:E:291:LEU:CD1	2.61	0.44
2:E:627:TYR:HB2	2:E:889:LEU:CD2	2.47	0.44
2:E:716:PHE:HZ	2:E:852:PHE:HZ	1.66	0.44
2:E:763:ARG:CZ	2:E:763:ARG:HB3	2.47	0.44
2:E:780:ASN:C	2:E:782:THR:N	2.76	0.44
2:F:204:LYS:HB3	2:F:205:ASP:H	1.34	0.44
2:F:278:PRO:HG3	2:F:289:ASP:O	2.17	0.44
2:F:516:LEU:CA	2:F:519:ARG:HG2	2.45	0.44
2:F:704:TRP:O	2:F:704:TRP:CE3	2.69	0.44
2:F:735:THR:HB	2:F:737:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:493:ILE:HD13	2:I:120:ALA:HB2	2.00	0.44
2:G:712:THR:OG1	2:G:713:PRO:N	2.42	0.44
2:G:802:VAL:CG1	2:G:803:GLY:H	2.31	0.44
2:H:46:ARG:HB3	2:H:46:ARG:CZ	2.48	0.44
2:H:291:LEU:H	2:H:291:LEU:CD1	2.31	0.44
2:H:488:ASP:O	2:H:490:TYR:N	2.51	0.44
2:H:491:VAL:O	2:H:493:ILE:HD13	2.18	0.44
2:H:682:ASP:C	2:H:684:THR:H	2.25	0.44
2:H:837:PHE:O	2:H:838:LEU:C	2.59	0.44
2:I:417:ASN:O	2:I:418:TYR:C	2.60	0.44
2:I:435:ILE:HB	2:I:437:LEU:CD2	2.48	0.44
2:J:110:GLY:CA	2:J:527:ARG:NH1	2.79	0.44
2:J:140:LYS:H	2:J:140:LYS:HG2	1.37	0.44
2:J:326:GLY:HA3	2:J:907:GLY:O	2.18	0.44
2:J:396:SER:H	2:K:144:ARG:HH12	1.66	0.44
2:J:620:LEU:HD21	2:J:892:LEU:HD21	2.00	0.44
2:J:696:ILE:HD13	2:J:876:MET:HG2	1.99	0.44
2:J:788:GLN:O	2:J:789:ASN:C	2.60	0.44
2:K:356:ARG:HH12	2:K:367:VAL:CG2	2.30	0.44
2:K:660:GLU:HA	2:K:674:TYR:CD2	2.53	0.44
2:K:682:ASP:CB	2:K:684:THR:HG23	2.47	0.44
2:K:722:VAL:HG23	2:K:723:ASP:N	2.32	0.44
2:K:740:LEU:HD21	2:K:744:LEU:HD22	2.00	0.44
2:K:863:GLN:O	2:K:863:GLN:CG	2.66	0.44
2:L:220:THR:CG2	2:L:221:ASN:CB	2.91	0.44
2:L:681:LEU:HD23	2:L:681:LEU:N	2.30	0.44
2:L:699:ASP:O	2:L:700:SER:CB	2.66	0.44
2:L:848:PHE:CE2	2:L:861:LEU:HB2	2.52	0.44
6:Q:26:PRO:HB3	6:Q:28:TRP:CE2	2.53	0.44
7:T:198:PHE:N	7:T:198:PHE:CD1	2.86	0.44
7:U:9:TYR:CD2	7:U:218:PHE:CD2	3.06	0.44
1:5:22:TRP:CD1	2:D:49:THR:HB	2.53	0.44
2:A:375:ARG:NE	2:A:507:PRO:HG3	2.29	0.44
2:A:543:LYS:O	2:A:544:ASN:CB	2.66	0.44
2:A:570:LEU:O	2:A:570:LEU:HG	2.16	0.44
2:A:839:CYS:SG	2:A:842:THR:CB	3.06	0.44
2:B:115:PRO:HA	2:B:302:TYR:CD1	2.53	0.44
2:B:136:LYS:HZ3	2:B:138:ASN:H	1.64	0.44
2:B:164:THR:O	2:B:165:ASP:C	2.61	0.44
2:B:197:LYS:NZ	2:B:255:GLU:OE1	2.45	0.44
2:B:370:TYR:HD1	2:B:370:TYR:N	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:609:ASN:ND2	5:O:24:SER:CB	2.81	0.44
2:B:772:GLN:N	2:B:772:GLN:OE1	2.51	0.44
2:B:890:TYR:O	2:B:891:VAL:C	2.61	0.44
2:C:111:PRO:N	2:C:527:ARG:HH12	2.15	0.44
2:C:160:ILE:HD11	2:C:199:ALA:HB2	1.98	0.44
2:C:162:ILE:HG22	2:C:163:GLY:N	2.32	0.44
2:C:301:ASN:O	2:C:303:ILE:HG12	2.18	0.44
2:C:611:THR:O	2:C:611:THR:OG1	2.36	0.44
2:C:747:TYR:HB2	2:C:749:ILE:HG23	2.00	0.44
2:C:749:ILE:HD13	2:C:749:ILE:HG21	1.74	0.44
2:C:762:ASP:O	2:C:769:ARG:NH1	2.51	0.44
2:C:864:ASN:OD1	2:C:864:ASN:C	2.60	0.44
2:C:902:HIS:CE1	2:C:904:PRO:HG3	2.52	0.44
2:D:111:PRO:HG3	2:D:527:ARG:HH12	1.83	0.44
2:D:149:PHE:CE2	2:D:162:ILE:HD12	2.51	0.44
2:D:247:PHE:CE2	2:F:403:SER:CA	3.01	0.44
2:D:358:ARG:NH2	2:E:769:ARG:NH1	2.66	0.44
2:D:386:LEU:HD12	2:D:386:LEU:N	2.31	0.44
2:E:58:THR:HG22	2:E:595:MET:C	2.43	0.44
2:E:307:ASP:OD1	2:E:308:ASN:CG	2.61	0.44
2:E:316:ASN:CA	2:E:336:ASP:OD2	2.65	0.44
2:F:109:ARG:HG3	2:F:109:ARG:H	1.35	0.44
2:F:529:VAL:O	2:F:529:VAL:CG1	2.66	0.44
2:F:728:ASN:HD21	2:F:835:LYS:NZ	2.16	0.44
2:F:831:SER:C	2:F:832:LEU:HD22	2.43	0.44
2:G:132:PRO:HA	2:G:144:ARG:O	2.18	0.44
2:G:446:LEU:HD23	2:G:446:LEU:HA	1.85	0.44
2:G:745:SER:OG	2:G:746:HIS:N	2.51	0.44
2:G:756:VAL:HG12	2:I:360:PHE:HB2	2.00	0.44
2:H:63:ARG:CD	2:I:708:ASP:OD1	2.66	0.44
2:H:153:ASN:H	2:H:197:LYS:HZ2	1.62	0.44
2:H:176:THR:HG21	2:H:201:ARG:HH12	1.81	0.44
2:H:201:ARG:NE	2:H:263:GLU:OE2	2.51	0.44
2:H:290:LEU:C	2:H:292:THR:N	2.73	0.44
2:H:613:ASP:OD1	2:H:901:ILE:O	2.35	0.44
2:H:630:PRO:O	2:H:631:SER:C	2.61	0.44
2:H:643:ARG:NH2	2:H:919:SER:H	2.16	0.44
2:H:660:GLU:O	2:H:678:VAL:HG23	2.18	0.44
2:I:96:MET:HE3	2:I:96:MET:CA	2.48	0.44
2:I:177:TYR:CZ	2:I:261:TYR:CE1	3.06	0.44
2:I:362:MET:HE1	2:I:363:TRP:CH2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:717:GLU:O	2:I:738:TRP:HB2	2.18	0.44
2:I:878:PHE:HD2	2:I:889:LEU:CD2	2.31	0.44
2:I:883:MET:O	2:I:885:GLU:N	2.49	0.44
2:J:136:LYS:HE2	2:J:136:LYS:HB3	1.64	0.44
2:J:175:LYS:CB	2:J:175:LYS:HZ2	2.30	0.44
2:J:175:LYS:O	2:J:175:LYS:CG	2.56	0.44
2:J:227:ALA:C	2:J:265:VAL:HG12	2.42	0.44
2:J:403:SER:HB2	2:J:420:ASP:CA	2.44	0.44
2:J:629:ILE:HG12	2:J:636:VAL:HG21	1.99	0.44
2:J:658:THR:HG23	2:J:888:LEU:HD11	2.00	0.44
2:K:61:SER:HG	2:L:708:ASP:H	1.62	0.44
2:K:369:SER:O	2:K:513:ASN:HA	2.18	0.44
2:K:503:ASP:OD1	2:K:836:LYS:HD2	2.18	0.44
2:K:801:PHE:HA	2:L:391:PHE:CZ	2.53	0.44
2:L:156:LYS:O	2:L:157:ASP:CB	2.66	0.44
2:L:376:ILE:HG22	2:L:774:MET:CE	2.47	0.44
2:L:453:TYR:HH	2:L:511:HIS:CG	2.32	0.44
2:L:752:GLN:HA	2:L:752:GLN:OE1	2.18	0.44
3:M:99:PHE:HB3	3:M:103:GLU:HG2	2.00	0.44
3:M:208:THR:HG22	3:M:234:PRO:HA	2.00	0.44
3:M:270:MET:HE3	3:M:270:MET:HB3	1.81	0.44
5:O:172:PHE:CE2	5:O:247:ILE:HD11	2.53	0.44
2:A:309:PHE:HE2	2:A:533:ILE:HD13	1.82	0.43
2:A:480:ARG:HG3	2:A:480:ARG:HH11	1.83	0.43
2:A:480:ARG:HG3	2:A:480:ARG:NH1	2.33	0.43
2:A:528:TYR:HE2	2:B:828:ALA:O	2.01	0.43
2:A:729:VAL:HG12	2:A:734:MET:O	2.17	0.43
2:A:804:TYR:HB2	2:A:811:GLU:CD	2.43	0.43
2:A:826:GLN:H	2:A:826:GLN:HG2	1.64	0.43
2:B:102:ASP:HB2	2:B:589:TYR:CE1	2.47	0.43
2:B:170:PRO:O	2:B:170:PRO:CG	2.64	0.43
2:B:178:GLN:O	2:B:179:PRO:C	2.60	0.43
2:B:187:GLN:HE21	2:B:187:GLN:HB2	1.52	0.43
2:B:202:VAL:HG22	2:B:262:ALA:HB2	1.99	0.43
2:B:519:ARG:HE	2:B:519:ARG:HB2	1.48	0.43
2:B:645:TRP:CZ3	2:B:648:PHE:CE2	3.05	0.43
2:B:790:VAL:HG11	2:B:794:PHE:HB2	1.97	0.43
2:B:863:GLN:C	2:B:866:LEU:HD13	2.42	0.43
2:B:866:LEU:HB3	2:B:867:TYR:H	1.21	0.43
2:C:70:PRO:HG2	2:C:73:ARG:NH2	2.33	0.43
2:C:582:ARG:O	2:C:583:PHE:CD1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:ARG:NH1	2:C:643:ARG:HB2	2.32	0.43
2:C:768:PHE:O	2:C:770:ASN:N	2.47	0.43
2:D:7:MET:N	2:D:8:PRO:CD	2.81	0.43
2:D:7:MET:O	2:D:7:MET:HG3	2.17	0.43
2:D:211:PRO:CB	2:D:295:ALA:HB2	2.47	0.43
2:D:382:VAL:HG21	2:D:439:ALA:HA	1.99	0.43
2:D:629:ILE:HG23	2:D:629:ILE:O	2.18	0.43
2:D:865:MET:HE2	2:F:4:PRO:HG3	1.99	0.43
2:E:69:VAL:HG11	2:J:73:ARG:O	2.18	0.43
2:E:150:ILE:HG22	2:E:151:GLY:O	2.18	0.43
2:E:275:VAL:O	2:E:275:VAL:HG12	2.17	0.43
2:E:294:GLN:HE22	2:E:808:THR:C	2.25	0.43
2:E:334:VAL:CG2	2:E:542:ILE:HD13	2.46	0.43
2:E:346:TYR:CD2	2:E:538:LYS:HG2	2.54	0.43
2:E:809:MET:HA	2:F:389:TYR:OH	2.17	0.43
2:E:836:LYS:HB2	2:E:836:LYS:NZ	2.33	0.43
2:F:101:PHE:N	2:F:101:PHE:HD1	2.16	0.43
2:F:124:LEU:HD13	2:F:124:LEU:HA	1.71	0.43
2:F:182:GLN:N	2:F:182:GLN:CD	2.73	0.43
2:F:360:PHE:HD1	2:F:361:SER:N	2.14	0.43
2:F:720:ARG:HG3	2:F:720:ARG:HH11	1.83	0.43
2:F:737:ASP:OD1	2:F:737:ASP:C	2.57	0.43
2:G:109:ARG:NH2	2:G:523:LEU:HB2	2.28	0.43
2:G:110:GLY:HA3	2:G:578:GLY:O	2.18	0.43
2:G:246:PHE:CD2	2:I:412:TRP:CZ2	3.06	0.43
2:G:490:TYR:HE1	2:G:819:TYR:CD2	2.36	0.43
2:G:606:MET:CE	2:I:27:GLY:HA3	2.48	0.43
2:G:653:PHE:CE2	2:G:846:ILE:HD11	2.53	0.43
2:H:102:ASP:O	2:H:586:ILE:HA	2.18	0.43
2:H:163:GLY:N	2:H:168:ASN:HB3	2.32	0.43
2:H:193:GLY:C	2:H:195:ALA:N	2.75	0.43
2:H:249:LEU:HG	2:H:255:GLU:HB3	2.00	0.43
2:H:329:SER:O	2:H:329:SER:OG	2.34	0.43
2:H:564:MET:HG2	2:H:564:MET:O	2.18	0.43
2:H:645:TRP:NE1	2:H:872:HIS:O	2.50	0.43
2:H:729:VAL:HG22	2:H:736:LYS:HA	2.00	0.43
2:J:135:TRP:CE2	2:J:141:ILE:CG2	3.01	0.43
2:J:480:ARG:HH11	2:J:480:ARG:HG2	1.83	0.43
2:J:534:GLN:NE2	2:K:729:VAL:HA	2.32	0.43
2:J:662:PRO:CD	2:J:672:PHE:HE2	2.31	0.43
2:J:732:CYS:HB3	2:J:773:PRO:CB	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:784:TYR:CE2	2:J:786:GLU:HG3	2.53	0.43
2:J:838:LEU:HD23	2:J:839:CYS:N	2.33	0.43
2:J:850:SER:HB3	2:J:861:LEU:HD11	2.00	0.43
2:K:114:LYS:CE	2:K:298:ASN:HB2	2.47	0.43
2:K:401:THR:O	2:L:250:PRO:CD	2.63	0.43
2:K:402:TYR:H	2:L:144:ARG:NH1	2.16	0.43
2:K:447:TYR:O	2:K:452:LEU:HG	2.17	0.43
2:K:546:LEU:O	2:K:546:LEU:HD23	2.18	0.43
2:L:379:ASN:O	2:L:379:ASN:CG	2.61	0.43
2:L:844:TRP:CE3	2:L:844:TRP:HA	2.53	0.43
3:M:155:GLY:C	3:M:156:LEU:HD23	2.40	0.43
3:M:346:ALA:HA	3:M:350:GLY:HA3	1.99	0.43
3:M:354:LYS:O	3:M:354:LYS:CG	2.66	0.43
7:T:8:PRO:HB3	7:T:55:LEU:HD12	1.98	0.43
7:U:41:ILE:HG12	7:U:41:ILE:O	2.18	0.43
2:A:660:GLU:OE2	2:A:674:TYR:CE2	2.71	0.43
2:A:889:LEU:HD23	2:A:889:LEU:O	2.18	0.43
2:A:895:VAL:HG11	2:A:917:PRO:HG2	1.94	0.43
2:B:212:CYS:SG	2:B:212:CYS:O	2.72	0.43
2:B:356:ARG:O	2:B:358:ARG:N	2.51	0.43
2:B:486:ALA:CB	2:B:487:LEU:HD12	2.49	0.43
2:B:668:PHE:O	2:B:668:PHE:CD1	2.71	0.43
2:B:883:MET:HE2	2:B:883:MET:HB3	1.91	0.43
2:C:29:VAL:HG12	2:C:30:GLN:N	2.33	0.43
2:C:64:LEU:O	2:C:65:THR:CG2	2.66	0.43
2:C:133:CYS:O	2:C:134:GLU:HG3	2.17	0.43
2:C:210:LEU:HD22	2:C:210:LEU:HA	1.77	0.43
2:C:273:HIS:ND1	2:C:273:HIS:O	2.51	0.43
2:C:359:TYR:HB3	2:C:518:TYR:CE2	2.53	0.43
2:C:505:VAL:O	2:C:507:PRO:HD3	2.18	0.43
2:C:746:HIS:O	2:C:748:ASN:N	2.51	0.43
2:D:271:ASP:CA	2:D:298:ASN:OD1	2.66	0.43
2:D:337:LEU:N	2:D:340:ARG:HH21	2.13	0.43
2:D:367:VAL:O	2:D:515:GLY:HA3	2.19	0.43
2:D:432:ALA:CB	2:F:810:ARG:HE	2.24	0.43
2:D:704:TRP:CH2	2:D:861:LEU:CD1	3.01	0.43
2:D:709:ARG:HG2	2:D:709:ARG:NH1	2.33	0.43
2:D:741:ILE:HD13	2:D:852:PHE:HD2	1.82	0.43
2:D:782:THR:O	2:D:782:THR:CG2	2.67	0.43
2:D:857:ALA:CB	2:F:49:THR:HG23	2.48	0.43
2:D:889:LEU:O	2:D:889:LEU:CG	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:16:ALA:CB	2:F:858:LEU:HD13	2.46	0.43
2:E:51:ALA:HB1	2:F:855:MET:O	2.18	0.43
2:E:147:ALA:HB1	2:E:199:ALA:C	2.41	0.43
2:E:375:ARG:CD	2:E:507:PRO:HG3	2.45	0.43
2:E:425:ILE:O	2:E:425:ILE:HG23	2.18	0.43
2:E:440:ASN:HB3	2:F:388:ASN:OD1	2.19	0.43
2:E:499:PRO:CG	2:E:502:MET:HE2	2.36	0.43
2:E:510:HIS:HD2	2:E:511:HIS:N	2.12	0.43
2:E:648:PHE:C	2:E:648:PHE:CD1	2.95	0.43
2:E:800:GLY:CA	2:E:812:GLY:CA	2.90	0.43
2:E:916:THR:O	2:E:917:PRO:C	2.59	0.43
2:F:67:ARG:HH21	2:F:587:ASN:HD22	1.66	0.43
2:F:375:ARG:NE	2:F:838:LEU:HD11	2.33	0.43
2:F:561:ASP:OD1	2:F:561:ASP:C	2.61	0.43
2:F:643:ARG:HH12	2:H:699:ASP:CB	2.21	0.43
2:F:679:PRO:HB3	2:F:684:THR:HG23	1.99	0.43
2:F:855:MET:HE3	2:F:860:ASP:OD2	2.18	0.43
2:F:863:GLN:HG2	2:F:863:GLN:O	2.17	0.43
2:G:56:VAL:O	2:G:56:VAL:HG22	2.17	0.43
2:G:121:TYR:OH	2:H:820:PRO:O	2.11	0.43
2:G:135:TRP:C	2:G:141:ILE:HG22	2.43	0.43
2:G:794:PHE:CD2	2:I:223:LYS:HB3	2.53	0.43
2:G:901:ILE:HG21	2:G:909:ILE:HD13	2.00	0.43
2:H:174:ASP:O	2:H:176:THR:OG1	2.33	0.43
2:H:177:TYR:HE2	2:H:261:TYR:CZ	2.36	0.43
2:H:215:SER:HB2	2:I:816:PRO:HB3	1.98	0.43
2:H:277:LYS:O	2:H:278:PRO:C	2.61	0.43
2:H:353:LEU:O	2:H:353:LEU:HD12	2.18	0.43
2:H:478:ASN:OD1	2:H:478:ASN:C	2.61	0.43
2:H:622:ALA:HA	2:H:895:VAL:H	1.83	0.43
2:I:186:THR:O	2:I:187:GLN:C	2.61	0.43
2:I:339:ASP:OD1	2:I:915:ARG:NH2	2.50	0.43
2:I:364:ASN:O	2:I:365:GLN:C	2.58	0.43
2:I:371:ASP:O	2:I:373:ASP:N	2.51	0.43
2:J:92:ARG:HD2	2:J:592:PHE:CE2	2.53	0.43
2:J:177:TYR:O	2:K:813:GLN:NE2	2.46	0.43
2:J:436:ASN:C	2:J:438:ALA:N	2.74	0.43
2:J:446:LEU:HD12	2:J:488:ASP:C	2.43	0.43
2:J:525:ASN:HB3	2:K:495:ALA:HB2	2.01	0.43
2:J:720:ARG:NH1	2:J:720:ARG:HG3	2.32	0.43
2:J:742:GLN:HG3	2:J:844:TRP:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:61:SER:OG	2:L:707:ASN:C	2.61	0.43
2:K:465:ILE:HG22	2:K:467:LEU:HD21	2.00	0.43
2:K:636:VAL:O	2:K:636:VAL:HG13	2.18	0.43
2:L:351:ASP:OD2	2:L:765:TYR:CD2	2.71	0.43
2:L:506:ASN:OD1	2:L:686:TYR:CE1	2.71	0.43
2:L:516:LEU:HD23	2:L:569:SER:CB	2.44	0.43
2:L:740:LEU:HD11	2:L:744:LEU:CD2	2.47	0.43
2:L:838:LEU:HD23	2:L:838:LEU:HA	1.79	0.43
2:L:869:ASN:ND2	7:U:21:ALA:CB	2.80	0.43
2:L:890:TYR:HE1	2:L:892:LEU:HB2	1.83	0.43
3:M:70:VAL:O	3:M:91:THR:HG22	2.18	0.43
3:M:422:LEU:CG	3:M:444:ARG:NH2	2.79	0.43
6:S:10:VAL:O	6:S:10:VAL:CG2	2.50	0.43
6:S:25:LEU:HD11	6:S:31:VAL:HG22	2.00	0.43
7:T:223:ASP:OD1	7:T:225:VAL:HB	2.19	0.43
7:U:31:MET:HE1	7:U:47:ILE:HD12	1.98	0.43
2:A:271:ASP:OD1	2:A:271:ASP:N	2.48	0.43
2:A:388:ASN:O	2:C:435:ILE:HG12	2.18	0.43
2:A:466:THR:C	2:A:467:LEU:HD23	2.42	0.43
2:A:517:ARG:NH1	2:B:380:HIS:CD2	2.86	0.43
2:A:611:THR:O	2:A:611:THR:CG2	2.66	0.43
2:A:792:LEU:HA	2:A:795:GLN:NE2	2.33	0.43
2:B:12:TYR:CE1	2:C:900:ARG:HD2	2.53	0.43
2:B:156:LYS:O	2:B:157:ASP:C	2.58	0.43
2:B:182:GLN:HG2	2:B:185:GLN:HA	2.00	0.43
2:B:204:LYS:O	2:B:205:ASP:C	2.61	0.43
2:B:365:GLN:O	2:B:366:ALA:HB2	2.17	0.43
2:B:626:LEU:CD2	2:B:888:LEU:HD23	2.48	0.43
2:B:781:THR:HG22	2:B:787:TYR:CZ	2.51	0.43
2:C:74:GLU:HB2	2:C:81:LYS:HB3	1.99	0.43
2:C:92:ARG:HD3	2:C:592:PHE:HD2	1.83	0.43
2:C:216:TYR:O	2:C:217:ALA:HB2	2.18	0.43
2:C:390:CYS:O	2:C:391:PHE:CD2	2.71	0.43
2:C:467:LEU:HD22	2:C:476:TYR:CD1	2.53	0.43
2:C:512:ARG:HH11	2:C:517:ARG:HH12	1.65	0.43
2:C:548:LEU:HG	2:C:604:GLU:CG	2.48	0.43
2:C:759:SER:O	2:C:760:TYR:C	2.54	0.43
2:D:300:PRO:HG2	2:D:511:HIS:CG	2.53	0.43
2:D:349:MET:SD	2:D:543:LYS:NZ	2.90	0.43
2:D:548:LEU:HD12	2:D:604:GLU:CG	2.48	0.43
2:D:649:ARG:HA	2:D:859:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:658:THR:O	2:D:658:THR:CG2	2.62	0.43
2:E:244:LEU:HD23	2:E:244:LEU:O	2.18	0.43
2:E:392:PRO:HD3	2:E:431:PHE:O	2.19	0.43
2:E:403:SER:OG	2:F:247:PHE:N	2.43	0.43
2:E:446:LEU:HD23	2:E:446:LEU:HA	1.76	0.43
2:E:447:TYR:HB2	2:E:451:ALA:CB	2.46	0.43
2:E:542:ILE:O	2:E:542:ILE:CG2	2.64	0.43
2:E:770:ASN:O	2:E:839:CYS:HA	2.18	0.43
2:F:103:ILE:HG12	2:F:586:ILE:CD1	2.48	0.43
2:F:343:GLU:HG2	2:F:681:LEU:HD13	1.99	0.43
2:F:344:LEU:HG	2:F:348:LEU:HD23	2.00	0.43
2:F:378:GLU:HB2	2:F:380:HIS:CD2	2.52	0.43
2:F:491:VAL:O	2:F:492:ASN:HB2	2.17	0.43
2:F:571:GLY:HA2	2:F:676:GLY:H	1.81	0.43
2:F:672:PHE:O	2:F:674:TYR:N	2.49	0.43
2:F:781:THR:HA	2:F:787:TYR:HD2	1.76	0.43
2:G:95:ASP:OD2	2:I:44:LYS:NZ	2.34	0.43
2:G:220:THR:CG2	2:G:227:ALA:N	2.81	0.43
2:G:307:ASP:N	2:G:519:ARG:NH1	2.66	0.43
2:G:533:ILE:HG22	2:H:731:GLN:NE2	2.33	0.43
2:G:720:ARG:HD3	2:G:723:ASP:O	2.18	0.43
2:G:722:VAL:HG22	2:G:723:ASP:N	2.33	0.43
2:G:734:MET:HE3	2:G:739:PHE:N	2.32	0.43
2:G:793:PRO:HB2	2:G:794:PHE:CD1	2.51	0.43
2:H:121:TYR:CE1	2:I:820:PRO:CG	3.01	0.43
2:H:205:ASP:OD1	2:H:206:THR:HG23	2.18	0.43
2:H:330:GLN:O	2:H:331:LEU:C	2.62	0.43
2:H:373:ASP:O	2:H:373:ASP:OD1	2.36	0.43
2:H:491:VAL:O	2:H:492:ASN:C	2.60	0.43
2:H:691:PHE:CB	2:H:718:ILE:CD1	2.96	0.43
2:H:904:PRO:HG2	2:H:908:VAL:HG11	2.00	0.43
2:I:162:ILE:CG2	2:I:170:PRO:HA	2.47	0.43
2:I:226:GLN:HB3	2:I:265:VAL:CG1	2.42	0.43
2:I:306:ARG:HH12	2:I:678:VAL:HG23	1.84	0.43
2:I:387:PRO:HB2	2:I:389:TYR:OH	2.18	0.43
2:I:399:THR:HG23	2:I:425:ILE:C	2.43	0.43
2:I:443:ARG:HG2	2:I:443:ARG:NH2	2.33	0.43
2:I:522:LEU:O	2:I:523:LEU:HD23	2.19	0.43
2:I:538:LYS:H	2:I:538:LYS:HG2	1.69	0.43
2:I:916:THR:OG1	2:I:917:PRO:N	2.33	0.43
2:J:110:GLY:HA2	2:J:527:ARG:HH12	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:161:GLN:O	2:J:162:ILE:C	2.60	0.43
2:J:299:ARG:NH1	2:J:570:LEU:HD11	2.25	0.43
2:J:305:PHE:CE2	2:J:533:ILE:HD13	2.53	0.43
2:J:407:ALA:O	2:J:408:ASN:C	2.60	0.43
2:J:653:PHE:HE1	2:J:846:ILE:HD12	1.83	0.43
2:J:669:ASP:C	2:J:671:TYR:H	2.27	0.43
2:J:705:PRO:HG3	2:J:716:PHE:CE1	2.53	0.43
2:J:874:LEU:HD13	2:J:893:PHE:HE1	1.82	0.43
2:J:889:LEU:CD2	2:J:891:VAL:H	2.31	0.43
2:J:904:PRO:HG2	2:J:908:VAL:CG2	2.47	0.43
2:K:248:ALA:O	2:K:249:LEU:HB2	2.18	0.43
2:K:349:MET:HE1	2:K:543:LYS:CE	2.35	0.43
2:K:443:ARG:HD2	2:L:386:LEU:HD21	2.01	0.43
2:K:450:VAL:O	2:K:450:VAL:CG1	2.66	0.43
2:K:770:ASN:ND2	2:K:841:ARG:HB3	2.33	0.43
2:L:196:GLN:HA	2:L:197:LYS:HZ1	1.83	0.43
2:L:447:TYR:CA	2:L:451:ALA:HB3	2.35	0.43
2:L:537:GLN:NE2	2:L:542:ILE:HD11	2.31	0.43
2:L:678:VAL:HB	2:L:681:LEU:CD2	2.47	0.43
2:L:704:TRP:C	2:L:706:GLY:N	2.57	0.43
2:L:841:ARG:O	2:L:841:ARG:CG	2.67	0.43
2:L:891:VAL:CG1	2:L:893:PHE:HE1	2.31	0.43
3:M:111:PHE:CZ	3:M:468:LEU:HD11	2.54	0.43
3:M:125:LEU:HD11	3:M:491:VAL:CG1	2.46	0.43
3:M:125:LEU:CD1	3:M:480:ILE:HD13	2.49	0.43
3:M:328:TYR:O	3:M:330:LEU:N	2.51	0.43
3:M:336:ASN:C	3:M:337:ASN:HD22	2.16	0.43
6:Q:32:ARG:NH1	6:Q:33:GLN:HB2	2.33	0.43
7:T:66:ARG:NH1	7:T:68:GLN:O	2.51	0.43
7:T:83:ASN:O	7:T:83:ASN:CG	2.61	0.43
7:U:6:PRO:HG2	7:U:202:VAL:HG23	2.00	0.43
1:8:16:ARG:CG	1:8:17:PRO:N	2.82	0.43
2:A:280:VAL:HG22	2:A:281:ALA:N	2.33	0.43
2:A:313:MET:HE2	2:A:315:TYR:CZ	2.54	0.43
2:A:459:LYS:HG3	2:A:482:ALA:HA	2.01	0.43
2:A:497:TRP:CZ2	2:A:836:LYS:HD2	2.54	0.43
2:A:668:PHE:CD1	2:A:668:PHE:O	2.72	0.43
2:A:714:ASN:ND2	2:E:338:GLN:OE1	2.39	0.43
2:A:809:MET:H	2:C:187:GLN:NE2	2.16	0.43
2:B:15:ILE:CG1	2:C:896:PHE:HD2	2.21	0.43
2:B:171:ILE:CG2	2:B:175:LYS:HD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:241:ASP:O	2:B:242:VAL:HG13	2.19	0.43
2:B:356:ARG:HH21	2:B:356:ARG:HD2	1.70	0.43
2:B:704:TRP:HB3	2:B:705:PRO:CD	2.45	0.43
2:C:214:GLY:O	2:C:269:ALA:HA	2.17	0.43
2:C:471:LYS:HA	2:C:476:TYR:CD2	2.53	0.43
2:C:474:TYR:OH	2:C:478:ASN:ND2	2.52	0.43
2:C:624:ASN:HB3	2:C:892:LEU:HD21	1.99	0.43
2:C:759:SER:O	2:C:762:ASP:N	2.52	0.43
2:C:805:MET:HG2	2:C:805:MET:H	1.46	0.43
2:D:69:VAL:CG1	2:D:70:PRO:CD	2.97	0.43
2:D:443:ARG:HG2	2:D:443:ARG:NH2	2.32	0.43
2:D:719:LYS:O	2:D:720:ARG:HB2	2.18	0.43
2:D:804:TYR:HE1	2:D:805:MET:HE2	1.84	0.43
2:D:809:MET:HB2	2:E:389:TYR:HE2	1.79	0.43
2:D:899:VAL:HG23	2:D:913:TYR:CD1	2.53	0.43
2:E:247:PHE:CZ	2:E:260:LEU:HD23	2.54	0.43
2:E:247:PHE:CZ	2:E:260:LEU:HG	2.51	0.43
2:E:384:ASP:OD1	2:E:384:ASP:C	2.61	0.43
2:E:434:GLU:HG2	2:E:435:ILE:N	2.33	0.43
2:E:545:LEU:HD11	2:E:903:GLN:HE21	1.81	0.43
2:E:636:VAL:O	2:E:636:VAL:HG13	2.18	0.43
2:E:704:TRP:H	2:E:705:PRO:HD2	1.79	0.43
2:F:160:ILE:O	2:F:160:ILE:CG1	2.65	0.43
2:F:171:ILE:HG22	2:F:175:LYS:HG3	2.00	0.43
2:F:349:MET:C	2:F:351:ASP:H	2.27	0.43
2:F:355:ASP:OD1	2:F:355:ASP:C	2.62	0.43
2:F:371:ASP:HB2	2:F:512:ARG:HG2	2.00	0.43
2:F:399:THR:HB	2:F:425:ILE:N	2.33	0.43
2:F:496:ARG:O	2:F:774:MET:HB3	2.18	0.43
2:F:623:ALA:O	2:F:624:ASN:C	2.61	0.43
2:F:660:GLU:HB3	2:F:674:TYR:CE1	2.53	0.43
2:F:891:VAL:O	2:F:891:VAL:CG2	2.65	0.43
2:G:179:PRO:O	2:H:804:TYR:HD2	2.01	0.43
2:G:302:TYR:HB2	2:G:569:SER:OG	2.18	0.43
2:G:380:HIS:CD2	2:I:517:ARG:NH1	2.86	0.43
2:G:500:ASP:N	2:G:501:PRO:HD3	2.33	0.43
2:G:526:GLY:HA3	2:H:777:GLN:HG3	2.01	0.43
2:G:668:PHE:CD1	2:G:668:PHE:C	2.96	0.43
2:H:75:ASP:OD1	2:H:75:ASP:C	2.61	0.43
2:H:249:LEU:HD22	2:H:249:LEU:HA	1.71	0.43
2:H:366:ALA:HB3	2:H:519:ARG:HD3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:405:ILE:HA	2:I:246:PHE:O	2.17	0.43
2:H:695:SER:C	2:H:696:ILE:HD12	2.43	0.43
2:I:68:PHE:HB2	2:I:588:LEU:HB3	2.00	0.43
2:I:326:GLY:O	2:I:327:GLN:C	2.61	0.43
2:I:784:TYR:CD2	2:I:787:TYR:HB2	2.53	0.43
2:J:14:HIS:CD2	2:J:23:TYR:CE1	3.06	0.43
2:J:76:THR:HB	2:J:79:SER:OG	2.18	0.43
2:J:226:GLN:HG2	2:K:818:ASN:ND2	2.33	0.43
2:J:447:TYR:CB	2:K:386:LEU:HD11	2.47	0.43
2:J:458:TYR:CE2	2:J:501:PRO:CB	3.02	0.43
2:J:788:GLN:O	2:L:223:LYS:NZ	2.52	0.43
2:K:64:LEU:HD21	2:L:751:TYR:OH	2.18	0.43
2:K:291:LEU:HB2	2:K:292:THR:HG23	2.00	0.43
2:K:306:ARG:O	2:K:307:ASP:C	2.61	0.43
2:K:374:VAL:HG22	2:K:510:HIS:NE2	2.34	0.43
2:K:434:GLU:OE2	2:K:434:GLU:HA	2.18	0.43
2:K:526:GLY:N	2:L:777:GLN:NE2	2.66	0.43
2:K:529:VAL:O	2:K:529:VAL:HG13	2.18	0.43
2:K:691:PHE:CD1	2:K:880:VAL:HG12	2.54	0.43
2:L:219:PRO:CB	2:L:226:GLN:HG2	2.49	0.43
2:L:307:ASP:OD1	2:L:307:ASP:C	2.59	0.43
2:L:452:LEU:HA	2:L:452:LEU:HD12	1.76	0.43
3:M:226:VAL:HG13	3:M:440:GLN:CD	2.42	0.43
3:M:331:LEU:HD13	3:M:334:ASP:HB3	2.00	0.43
4:N:175:LEU:HG	4:N:175:LEU:O	2.18	0.43
7:T:70:ASN:HB3	7:T:217:ASP:CG	2.43	0.43
7:U:37:GLY:C	7:U:41:ILE:HG22	2.43	0.43
1:3:21:THR:O	1:3:21:THR:OG1	2.34	0.43
1:8:22:TRP:CE3	1:8:22:TRP:HA	2.53	0.43
2:A:208:PRO:CD	2:A:208:PRO:O	2.60	0.43
2:A:499:PRO:C	2:A:501:PRO:HD2	2.43	0.43
2:A:629:ILE:HD11	2:A:636:VAL:HG11	1.99	0.43
2:A:756:VAL:O	2:A:756:VAL:HG13	2.19	0.43
2:A:772:GLN:O	2:A:774:MET:HG3	2.18	0.43
2:A:797:ASN:C	2:A:799:SER:N	2.77	0.43
2:B:27:GLY:HA3	2:C:606:MET:HE1	2.01	0.43
2:B:37:THR:HG23	2:B:38:TYR:HD2	1.84	0.43
2:B:134:GLU:HG3	2:B:205:ASP:H	1.82	0.43
2:B:134:GLU:O	2:B:136:LYS:N	2.51	0.43
2:B:226:GLN:O	2:B:227:ALA:C	2.61	0.43
2:B:327:GLN:O	2:B:329:SER:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:468:PRO:HD2	2:B:476:TYR:CD1	2.44	0.43
2:C:105:GLY:HA3	2:C:531:PHE:CZ	2.54	0.43
2:C:446:LEU:CD2	2:C:488:ASP:CA	2.94	0.43
2:C:545:LEU:HD13	2:C:901:ILE:HD12	2.00	0.43
2:C:648:PHE:HE2	2:C:651:TRP:CH2	2.36	0.43
2:C:686:TYR:CE1	2:C:687:LEU:HD11	2.53	0.43
2:D:64:LEU:HB2	2:D:592:PHE:O	2.17	0.43
2:D:116:TYR:HD1	2:D:116:TYR:H	1.65	0.43
2:D:265:VAL:O	2:D:265:VAL:HG22	2.19	0.43
2:D:356:ARG:C	2:D:358:ARG:H	2.26	0.43
2:D:362:MET:HE3	2:D:363:TRP:NE1	2.34	0.43
2:D:401:THR:HB	2:D:425:ILE:CD1	2.49	0.43
2:D:612:ASN:HA	2:F:24:LEU:HD22	2.00	0.43
2:D:659:LYS:O	2:D:674:TYR:HB2	2.18	0.43
2:D:688:ASN:OD1	2:D:844:TRP:CD1	2.70	0.43
2:D:702:VAL:HG23	2:D:703:SER:H	1.81	0.43
2:D:729:VAL:O	2:D:730:ALA:C	2.53	0.43
2:D:735:THR:C	2:D:737:ASP:N	2.73	0.43
2:E:302:TYR:C	2:E:303:ILE:HG12	2.44	0.43
2:E:356:ARG:HB3	2:E:367:VAL:HG12	2.00	0.43
2:E:458:TYR:HE2	2:E:501:PRO:HB3	1.84	0.43
2:E:662:PRO:CG	2:E:680:TYR:HD2	2.31	0.43
2:E:793:PRO:HB2	2:E:794:PHE:H	1.35	0.43
2:E:809:MET:CA	2:F:389:TYR:CE2	2.97	0.43
2:F:171:ILE:HG23	2:F:175:LYS:H	1.84	0.43
2:F:187:GLN:O	2:F:189:ASN:N	2.51	0.43
2:F:253:PRO:O	2:F:254:ASN:HB3	2.18	0.43
2:F:546:LEU:HD23	2:F:607:LEU:HD22	2.00	0.43
2:F:565:ILE:HG13	2:F:566:LEU:HD13	1.99	0.43
2:F:575:ARG:HD3	6:Q:38:SER:O	2.19	0.43
2:F:690:THR:HA	2:F:881:ASP:OD2	2.19	0.43
2:F:848:PHE:HE1	2:F:861:LEU:O	2.01	0.43
2:G:59:ASP:C	2:G:61:SER:N	2.75	0.43
2:G:84:PHE:HB2	2:G:554:TYR:O	2.19	0.43
2:G:478:ASN:OD1	2:G:478:ASN:C	2.62	0.43
2:G:539:PHE:CE1	2:G:541:ALA:HB3	2.54	0.43
2:G:582:ARG:HH11	2:G:582:ARG:HG2	1.84	0.43
2:G:754:PHE:HB2	2:I:363:TRP:CZ2	2.53	0.43
2:H:183:VAL:O	2:H:186:THR:N	2.47	0.43
2:H:435:ILE:HD13	2:I:390:CYS:HA	1.98	0.43
2:H:791:THR:HB	2:H:793:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:874:LEU:HD23	2:H:875:ASP:N	2.33	0.43
2:I:149:PHE:HZ	2:I:162:ILE:CB	2.32	0.43
2:I:447:TYR:HA	2:I:451:ALA:CB	2.46	0.43
2:I:696:ILE:O	2:I:703:SER:HA	2.19	0.43
2:J:195:ALA:O	2:J:197:LYS:N	2.52	0.43
2:J:356:ARG:O	2:J:367:VAL:CG1	2.66	0.43
2:J:383:GLU:OE2	2:L:512:ARG:HD2	2.18	0.43
2:J:480:ARG:NH1	2:J:480:ARG:HG2	2.32	0.43
2:J:497:TRP:CD1	2:J:776:ARG:HD3	2.54	0.43
2:J:800:GLY:CA	2:J:811:GLU:O	2.63	0.43
2:K:102:ASP:HB2	2:K:589:TYR:HD2	1.83	0.43
2:K:341:ASN:HB3	2:K:344:LEU:CB	2.48	0.43
2:K:430:ILE:O	2:K:430:ILE:CG1	2.62	0.43
2:K:525:ASN:OD1	2:K:525:ASN:C	2.62	0.43
2:K:526:GLY:H	2:L:777:GLN:NE2	2.16	0.43
2:K:770:ASN:HD22	2:K:842:THR:HG23	1.82	0.43
2:L:102:ASP:OD1	2:L:102:ASP:C	2.60	0.43
2:L:780:ASN:HB2	2:L:832:LEU:HB2	2.00	0.43
3:M:105:GLY:O	3:M:475:VAL:HG23	2.18	0.43
3:M:105:GLY:HA3	3:M:475:VAL:HG23	2.00	0.43
3:M:377:SER:HB3	3:M:397:TYR:HB3	2.00	0.43
5:O:162:VAL:O	5:O:162:VAL:CG2	2.66	0.43
7:T:210:ALA:HB1	7:T:211:PRO:HD2	2.01	0.43
1:4:18:PHE:O	1:4:18:PHE:CG	2.69	0.43
2:A:621:CYS:O	2:A:622:ALA:HB3	2.18	0.43
2:A:672:PHE:CE1	2:A:674:TYR:O	2.72	0.43
2:A:822:PRO:O	2:A:829:VAL:HG22	2.17	0.43
2:B:83:ARG:HG2	2:B:83:ARG:NH1	2.33	0.43
2:B:96:MET:HE3	2:B:96:MET:HB3	1.88	0.43
2:B:160:ILE:CG1	2:B:259:VAL:HG11	2.49	0.43
2:B:689:HIS:O	2:B:719:LYS:HD3	2.17	0.43
2:B:792:LEU:HA	2:B:792:LEU:HD13	1.69	0.43
2:B:865:MET:CE	2:B:872:HIS:HE1	2.31	0.43
2:C:109:ARG:NE	2:C:113:PHE:CZ	2.86	0.43
2:C:153:ASN:OD1	2:C:153:ASN:N	2.49	0.43
2:C:216:TYR:HB3	2:C:268:GLU:OE2	2.18	0.43
2:C:390:CYS:HB2	2:C:432:ALA:C	2.44	0.43
2:D:55:ASP:HB3	2:D:599:THR:CG2	2.47	0.43
2:D:197:LYS:N	2:D:197:LYS:HD3	2.33	0.43
2:D:315:TYR:OH	2:D:538:LYS:HB2	2.18	0.43
2:D:545:LEU:HA	2:D:616:PHE:HZ	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:754:PHE:HD2	2:F:362:MET:CE	2.31	0.43
2:D:850:SER:OG	2:F:57:THR:HG21	2.18	0.43
2:E:356:ARG:O	2:E:367:VAL:HG13	2.19	0.43
2:E:462:PRO:HG2	2:E:465:ILE:CD1	2.49	0.43
2:E:752:GLN:OE1	2:E:752:GLN:HA	2.19	0.43
2:E:903:GLN:HA	2:E:908:VAL:O	2.19	0.43
2:F:57:THR:CA	2:F:596:ALA:HB2	2.48	0.43
2:F:88:VAL:HG22	2:F:88:VAL:O	2.19	0.43
2:F:150:ILE:HD13	2:F:150:ILE:HA	1.77	0.43
2:F:332:ASN:OD1	2:F:334:VAL:N	2.33	0.43
2:F:396:SER:OG	2:F:397:ALA:N	2.51	0.43
2:F:516:LEU:N	2:F:519:ARG:NE	2.65	0.43
2:F:624:ASN:ND2	2:F:680:TYR:HE1	2.17	0.43
2:G:97:ALA:O	2:G:99:THR:N	2.50	0.43
2:G:210:LEU:HD12	2:G:210:LEU:HA	1.91	0.43
2:G:349:MET:HG2	2:G:353:LEU:CD1	2.49	0.43
2:G:818:ASN:ND2	2:G:818:ASN:O	2.51	0.43
2:G:850:SER:HB3	2:G:861:LEU:CD1	2.38	0.43
2:H:56:VAL:HG13	2:H:57:THR:CG2	2.30	0.43
2:H:119:THR:OG1	2:H:213:TYR:HE1	2.02	0.43
2:H:744:LEU:HD21	2:H:751:TYR:CE2	2.54	0.43
2:I:24:LEU:HD23	2:I:24:LEU:HA	1.69	0.43
2:I:135:TRP:HE3	2:I:135:TRP:CA	2.22	0.43
2:I:149:PHE:HD2	2:I:160:ILE:HG21	1.83	0.43
2:I:743:MET:HE1	2:I:768:PHE:HD1	1.82	0.43
2:J:83:ARG:HH11	2:J:83:ARG:HG2	1.83	0.43
2:J:124:LEU:HD22	2:K:802:VAL:HG23	2.01	0.43
2:J:444:SER:O	2:J:446:LEU:N	2.51	0.43
2:J:610:ASP:OD1	2:J:610:ASP:C	2.61	0.43
2:J:632:ASN:O	6:Q:10:VAL:HB	2.18	0.43
2:J:753:GLY:HA2	2:L:98:SER:HA	1.99	0.43
2:K:107:LEU:HD23	2:K:108:ASP:C	2.43	0.43
2:K:297:PRO:HG3	2:L:385:GLU:HA	2.01	0.43
2:K:308:ASN:ND2	2:K:350:LEU:CD1	2.81	0.43
2:K:463:ASP:OD1	2:K:463:ASP:C	2.62	0.43
2:K:492:ASN:HD21	2:K:497:TRP:HB2	1.81	0.43
2:K:689:HIS:O	2:K:719:LYS:HE2	2.18	0.43
2:L:102:ASP:OD2	2:L:589:TYR:HE2	2.01	0.43
2:L:171:ILE:O	2:L:174:ASP:HB2	2.18	0.43
2:L:219:PRO:O	2:L:219:PRO:CG	2.57	0.43
2:L:313:MET:HB2	2:L:315:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:55:TYR:CZ	3:M:57:GLU:HG2	2.53	0.43
4:N:174:GLN:NE2	4:N:176:MET:O	2.51	0.43
5:O:58:GLN:O	5:O:58:GLN:OE1	2.35	0.43
6:P:26:PRO:HG2	6:P:31:VAL:HG21	2.00	0.43
7:U:219:ILE:HG22	7:U:221:ASN:H	1.83	0.43
1:8:17:PRO:HD2	2:C:20:ALA:HB3	2.00	0.43
2:A:329:SER:O	2:A:331:LEU:N	2.52	0.43
2:A:363:TRP:O	2:A:364:ASN:C	2.61	0.43
2:A:747:TYR:HE1	2:A:762:ASP:HA	1.82	0.43
2:B:177:TYR:O	2:B:181:PRO:HG2	2.19	0.43
2:B:185:GLN:C	2:B:187:GLN:H	2.26	0.43
2:B:245:GLN:HB2	2:B:260:LEU:CB	2.49	0.43
2:B:289:ASP:C	2:B:291:LEU:CG	2.87	0.43
2:B:361:SER:OG	2:B:362:MET:N	2.52	0.43
2:B:624:ASN:ND2	2:B:892:LEU:HD22	2.34	0.43
2:B:738:TRP:O	2:B:741:ILE:N	2.51	0.43
2:C:222:GLU:O	2:C:222:GLU:CD	2.61	0.43
2:C:355:ASP:O	2:C:355:ASP:OD1	2.37	0.43
2:C:721:THR:O	2:C:723:ASP:N	2.52	0.43
2:C:802:VAL:CG2	2:C:803:GLY:H	2.24	0.43
2:D:184:GLY:O	2:E:276:TYR:HE2	2.01	0.43
2:D:210:LEU:HD12	2:D:269:ALA:HB2	2.00	0.43
2:D:351:ASP:OD1	2:D:351:ASP:O	2.37	0.43
2:D:362:MET:O	2:D:363:TRP:CD1	2.72	0.43
2:D:786:GLU:OE2	2:D:786:GLU:N	2.51	0.43
2:E:64:LEU:O	2:E:591:ASN:HA	2.19	0.43
2:E:142:LYS:C	2:E:143:VAL:HG22	2.42	0.43
2:E:272:THR:HA	2:E:296:ALA:O	2.19	0.43
2:E:402:TYR:HA	2:F:250:PRO:HA	1.98	0.43
2:E:403:SER:CA	2:F:250:PRO:HD3	2.48	0.43
2:E:548:LEU:HB3	2:E:549:PRO:HD2	1.99	0.43
2:E:588:LEU:CD1	2:E:589:TYR:H	2.10	0.43
2:E:616:PHE:O	2:E:898:VAL:HA	2.19	0.43
2:E:730:ALA:O	2:E:731:GLN:C	2.59	0.43
2:E:735:THR:O	2:E:738:TRP:N	2.36	0.43
2:E:810:ARG:NH1	2:F:429:ASN:OD1	2.52	0.43
2:E:903:GLN:N	2:E:903:GLN:OE1	2.51	0.43
2:F:68:PHE:HB2	2:F:588:LEU:HB3	2.01	0.43
2:F:76:THR:CG2	2:F:77:ALA:N	2.81	0.43
2:F:176:THR:O	2:F:178:GLN:N	2.41	0.43
2:F:307:ASP:OD1	2:F:307:ASP:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:360:PHE:N	2:F:365:GLN:HB3	2.31	0.43
2:F:371:ASP:O	2:F:373:ASP:N	2.52	0.43
2:F:447:TYR:OH	2:F:481:VAL:CG2	2.67	0.43
2:F:702:VAL:CG1	2:F:703:SER:H	2.31	0.43
2:F:845:ARG:HE	2:F:845:ARG:HB3	1.58	0.43
2:F:858:LEU:HA	2:F:896:PHE:HZ	1.83	0.43
2:G:61:SER:H	2:H:707:ASN:ND2	2.16	0.43
2:G:371:ASP:O	2:G:374:VAL:HG23	2.18	0.43
2:G:377:ILE:CG2	2:G:499:PRO:HD3	2.49	0.43
2:G:435:ILE:CG1	2:H:390:CYS:SG	3.03	0.43
2:G:855:MET:SD	2:H:38:TYR:CD2	3.12	0.43
2:H:65:THR:O	2:H:66:LEU:HD22	2.18	0.43
2:H:149:PHE:CZ	2:H:162:ILE:HG12	2.54	0.43
2:H:171:ILE:O	2:H:172:TYR:C	2.58	0.43
2:H:452:LEU:HD12	2:H:482:ALA:CB	2.49	0.43
2:H:645:TRP:HE3	2:H:648:PHE:HD2	1.66	0.43
2:H:874:LEU:CD2	2:H:876:MET:HG2	2.49	0.43
2:I:52:PRO:HB2	2:I:56:VAL:HG21	2.01	0.43
2:I:244:LEU:CD2	2:I:261:TYR:HE1	2.28	0.43
2:I:284:THR:HG21	2:I:287:SER:OG	2.18	0.43
2:I:407:ALA:CB	2:I:414:ALA:N	2.71	0.43
2:I:488:ASP:OD1	2:I:489:THR:N	2.39	0.43
2:I:545:LEU:HA	2:I:616:PHE:HZ	1.81	0.43
2:I:627:TYR:HE2	2:I:638:ILE:CD1	2.32	0.43
2:J:120:ALA:HB3	2:J:121:TYR:HD1	1.72	0.43
2:J:162:ILE:HG12	2:J:162:ILE:H	1.41	0.43
2:J:164:THR:HB	2:J:165:ASP:H	1.38	0.43
2:J:506:ASN:OD1	2:J:674:TYR:OH	2.28	0.43
2:J:570:LEU:HA	2:J:570:LEU:HD12	1.84	0.43
2:J:718:ILE:HD12	2:J:718:ILE:H	1.83	0.43
2:K:302:TYR:HB2	2:K:569:SER:OG	2.18	0.43
2:K:311:GLY:C	2:K:313:MET:N	2.74	0.43
2:K:312:LEU:CD1	2:K:565:ILE:HG12	2.42	0.43
2:K:321:MET:SD	2:K:335:VAL:O	2.77	0.43
2:K:341:ASN:O	2:K:345:SER:N	2.37	0.43
2:K:375:ARG:NH1	2:K:502:MET:O	2.49	0.43
2:K:738:TRP:CE2	2:K:742:GLN:NE2	2.86	0.43
2:K:864:ASN:OD1	2:K:864:ASN:C	2.61	0.43
2:L:24:LEU:HD21	2:L:45:PHE:CE2	2.54	0.43
2:L:198:VAL:HG13	2:L:257:LYS:O	2.19	0.43
2:L:324:LEU:HD12	2:L:324:LEU:HA	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:469:GLU:CD	2:L:469:GLU:H	2.27	0.43
2:L:545:LEU:HA	2:L:616:PHE:CZ	2.54	0.43
2:L:636:VAL:O	2:L:636:VAL:HG22	2.18	0.43
2:L:717:GLU:O	2:L:738:TRP:HB2	2.18	0.43
2:L:864:ASN:OD1	2:L:866:LEU:N	2.50	0.43
3:M:226:VAL:CG1	3:M:440:GLN:NE2	2.76	0.43
6:Q:16:VAL:HG11	6:R:31:VAL:CA	2.48	0.43
7:T:97:ALA:HB2	7:T:169:THR:HG21	2.01	0.43
7:U:223:ASP:OD1	7:U:223:ASP:C	2.61	0.43
1:4:10:ALA:N	1:4:11:PRO:HD3	2.32	0.43
2:A:473:THR:HG23	2:A:476:TYR:H	1.84	0.43
2:A:529:VAL:HG13	2:A:529:VAL:O	2.18	0.43
2:A:599:THR:O	2:A:602:THR:OG1	2.19	0.43
2:A:813:GLN:NE2	2:C:146:GLN:O	2.52	0.43
2:B:301:ASN:O	2:B:301:ASN:OD1	2.37	0.43
2:B:497:TRP:CZ3	2:B:774:MET:CB	2.98	0.43
2:B:498:SER:OG	2:B:774:MET:HE1	2.19	0.43
2:B:641:PRO:HB2	3:M:99:PHE:CD1	2.53	0.43
2:B:653:PHE:CE2	2:B:738:TRP:CH2	2.98	0.43
2:B:822:PRO:O	2:B:823:LEU:CB	2.66	0.43
2:C:90:ASP:OD1	2:C:91:ASN:OD1	2.37	0.43
2:C:191:GLU:O	2:C:192:VAL:HB	2.18	0.43
2:C:297:PRO:O	2:C:297:PRO:HG2	2.19	0.43
2:C:662:PRO:HA	2:C:672:PHE:HD2	1.84	0.43
2:D:64:LEU:HD23	2:D:64:LEU:H	1.83	0.43
2:D:69:VAL:HG13	2:D:70:PRO:HD2	1.99	0.43
2:D:93:VAL:HG13	2:D:546:LEU:HD22	2.00	0.43
2:D:105:GLY:N	2:D:531:PHE:HD2	2.16	0.43
2:D:108:ASP:O	2:D:109:ARG:C	2.60	0.43
2:D:113:PHE:O	2:D:113:PHE:HD1	1.99	0.43
2:D:186:THR:O	2:D:187:GLN:HB2	2.17	0.43
2:D:249:LEU:HD12	2:D:250:PRO:N	2.26	0.43
2:D:309:PHE:CZ	2:D:533:ILE:HG23	2.54	0.43
2:D:359:TYR:CD2	2:D:518:TYR:CD2	3.07	0.43
2:D:369:SER:HB3	2:D:841:ARG:HH12	1.84	0.43
2:D:391:PHE:N	2:D:391:PHE:CD1	2.84	0.43
2:D:400:ASP:O	2:E:249:LEU:HD13	2.19	0.43
2:D:416:ASP:OD1	2:E:245:GLN:NE2	2.49	0.43
2:D:547:LEU:HA	2:D:547:LEU:HD12	1.77	0.43
2:D:610:ASP:OD1	2:D:610:ASP:C	2.62	0.43
2:D:722:VAL:O	2:D:723:ASP:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:770:ASN:HD21	2:D:842:THR:HB	1.84	0.43
2:E:57:THR:HG21	2:F:850:SER:CB	2.36	0.43
2:E:65:THR:O	2:E:65:THR:CG2	2.65	0.43
2:E:97:ALA:O	2:E:99:THR:N	2.51	0.43
2:E:137:ASP:HB2	2:E:140:LYS:HD2	2.01	0.43
2:E:188:TRP:N	2:E:192:VAL:N	2.67	0.43
2:E:307:ASP:OD1	2:E:307:ASP:C	2.62	0.43
2:E:610:ASP:OD1	2:E:610:ASP:N	2.51	0.43
2:E:703:SER:C	2:E:705:PRO:CD	2.89	0.43
2:E:703:SER:O	2:E:706:GLY:N	2.49	0.43
2:E:799:SER:OG	2:E:814:ALA:HA	2.18	0.43
2:E:878:PHE:CD2	2:E:889:LEU:CD1	3.02	0.43
2:F:68:PHE:N	2:F:588:LEU:O	2.51	0.43
2:F:155:ASN:HB2	2:F:158:ASN:CA	2.43	0.43
2:F:370:TYR:OH	2:F:840:ASP:OD1	2.36	0.43
2:F:620:LEU:O	2:F:620:LEU:CG	2.67	0.43
2:G:431:PHE:CG	2:G:432:ALA:N	2.85	0.43
2:G:693:LYS:CE	2:G:715:GLU:HG3	2.45	0.43
2:G:734:MET:HE3	2:G:738:TRP:C	2.43	0.43
2:H:128:THR:O	2:H:128:THR:CG2	2.57	0.43
2:H:321:MET:HE1	2:J:708:ASP:CG	2.44	0.43
2:H:375:ARG:NH1	2:H:375:ARG:HG3	2.34	0.43
2:H:450:VAL:HG12	2:H:487:LEU:CD2	2.49	0.43
2:H:497:TRP:CE2	2:H:836:LYS:NZ	2.85	0.43
2:H:517:ARG:NH1	2:I:380:HIS:ND1	2.67	0.43
2:H:771:PHE:CD1	2:H:773:PRO:HD3	2.54	0.43
2:H:784:TYR:O	2:H:787:TYR:HB2	2.19	0.43
2:H:837:PHE:O	2:H:837:PHE:CD2	2.71	0.43
2:I:10:TRP:HA	2:I:15:ILE:HG13	2.01	0.43
2:I:195:ALA:O	2:I:196:GLN:HB3	2.17	0.43
2:J:204:LYS:HG2	2:J:262:ALA:HB1	2.01	0.43
2:J:339:ASP:OD1	2:J:915:ARG:NH2	2.52	0.43
2:J:371:ASP:O	2:J:373:ASP:N	2.52	0.43
2:J:387:PRO:O	2:J:389:TYR:N	2.52	0.43
2:K:27:GLY:C	2:L:606:MET:HE3	2.44	0.43
2:K:374:VAL:O	2:K:450:VAL:HG11	2.18	0.43
2:K:740:LEU:O	2:K:744:LEU:CB	2.66	0.43
2:L:107:LEU:CD2	2:L:109:ARG:HG3	2.48	0.43
2:L:312:LEU:C	2:L:313:MET:HG2	2.43	0.43
2:L:337:LEU:HD13	2:L:340:ARG:HD3	2.01	0.43
2:L:434:GLU:HG2	2:L:435:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:506:ASN:HD22	2:L:509:ASN:CG	2.27	0.43
3:M:450:ILE:HG22	3:M:450:ILE:O	2.18	0.43
5:O:144:ASN:O	5:O:144:ASN:CG	2.62	0.43
5:O:184:PRO:O	5:O:185:GLN:C	2.62	0.43
5:O:210:THR:O	5:O:210:THR:CG2	2.66	0.43
5:O:247:ILE:O	5:O:248:ALA:C	2.62	0.43
6:P:12:PHE:CE2	6:P:17:PHE:HZ	2.36	0.43
6:R:28:TRP:HB3	6:R:29:ALA:H	1.46	0.43
2:A:78:TYR:O	2:A:78:TYR:CD2	2.72	0.43
2:A:109:ARG:HD3	2:A:303:ILE:HG21	2.01	0.43
2:A:225:GLY:C	2:A:226:GLN:HG2	2.43	0.43
2:A:516:LEU:HD23	2:A:516:LEU:HA	1.78	0.43
2:A:591:ASN:ND2	2:B:740:LEU:HD21	2.34	0.43
2:A:694:VAL:HG12	2:A:716:PHE:O	2.19	0.43
2:A:701:SER:OG	2:A:702:VAL:N	2.50	0.43
2:B:150:ILE:HG13	2:B:183:VAL:O	2.18	0.43
2:B:160:ILE:CG2	2:B:161:GLN:N	2.82	0.43
2:B:645:TRP:CZ3	2:B:648:PHE:CD1	3.07	0.43
2:B:860:ASP:HB3	2:B:861:LEU:H	1.33	0.43
2:C:64:LEU:C	2:C:65:THR:HG22	2.44	0.43
2:C:135:TRP:HE3	2:C:287:SER:OG	2.01	0.43
2:C:335:VAL:N	2:C:913:TYR:HE2	2.12	0.43
2:C:620:LEU:HD21	2:C:892:LEU:CD1	2.49	0.43
2:C:620:LEU:HD23	2:C:620:LEU:C	2.44	0.43
2:C:797:ASN:HB2	2:C:798:ASN:H	1.71	0.43
2:D:312:LEU:HG	2:D:565:ILE:HB	2.01	0.43
2:D:335:VAL:CG1	2:D:913:TYR:CD2	3.01	0.43
2:D:399:THR:O	2:D:400:ASP:HB2	2.19	0.43
2:D:753:GLY:HA2	2:F:98:SER:HA	2.00	0.43
2:E:204:LYS:HG3	2:E:263:GLU:O	2.19	0.43
2:E:668:PHE:CE1	2:E:670:PRO:HG3	2.54	0.43
2:E:874:LEU:HD21	2:E:876:MET:HE3	1.99	0.43
2:F:79:SER:N	2:F:560:LYS:HG2	2.33	0.43
2:F:83:ARG:C	2:F:84:PHE:HD1	2.26	0.43
2:F:337:LEU:HD13	4:N:191:LYS:NZ	2.33	0.43
2:F:623:ALA:O	2:F:625:MET:CG	2.67	0.43
2:F:641:PRO:HD2	2:H:699:ASP:O	2.18	0.43
2:F:648:PHE:HD2	2:F:848:PHE:CD2	2.37	0.43
2:G:37:THR:HG23	2:G:38:TYR:CD1	2.44	0.43
2:G:66:LEU:HD12	2:G:592:PHE:CE1	2.54	0.43
2:G:127:LYS:HE3	2:G:213:TYR:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:144:ARG:HH22	2:I:188:TRP:NE1	2.16	0.43
2:G:161:GLN:HE21	2:G:167:THR:HA	1.84	0.43
2:G:474:TYR:HB2	2:G:572:ASN:ND2	2.33	0.43
2:G:548:LEU:HD12	2:G:604:GLU:CG	2.46	0.43
2:G:655:ARG:NH2	2:G:883:MET:HE3	2.34	0.43
2:G:813:GLN:HE21	2:I:148:PRO:HD3	1.82	0.43
2:G:906:ARG:HB3	2:G:907:GLY:H	1.62	0.43
2:H:35:THR:HB	2:H:38:TYR:CZ	2.53	0.43
2:H:84:PHE:HZ	2:H:586:ILE:HG22	1.84	0.43
2:H:250:PRO:C	2:H:252:THR:N	2.73	0.43
2:H:447:TYR:OH	2:H:807:PRO:HB3	2.18	0.43
2:H:471:LYS:HE3	2:H:476:TYR:OH	2.19	0.43
2:H:512:ARG:HD3	2:H:512:ARG:HA	1.84	0.43
2:H:901:ILE:HD12	2:H:911:ALA:HB2	2.00	0.43
2:I:102:ASP:OD1	2:I:102:ASP:C	2.62	0.43
2:I:355:ASP:OD1	2:I:355:ASP:C	2.62	0.43
2:J:175:LYS:HZ3	2:J:175:LYS:CA	2.31	0.43
2:J:177:TYR:CD2	2:J:178:GLN:N	2.86	0.43
2:J:418:TYR:CA	2:J:421:ARG:HB2	2.49	0.43
2:J:512:ARG:H	2:J:517:ARG:NH1	2.17	0.43
2:J:626:LEU:O	2:J:627:TYR:HD1	2.01	0.43
2:J:867:TYR:HD1	2:J:870:SER:HB3	1.84	0.43
2:J:900:ARG:HH11	2:L:12:TYR:HE1	1.66	0.43
2:K:13:MET:HE2	2:L:912:VAL:CG1	2.44	0.43
2:K:18:GLN:HB3	2:K:22:GLU:HG3	1.99	0.43
2:K:119:THR:HG23	2:K:271:ASP:OD2	2.18	0.43
2:K:452:LEU:HD23	2:K:452:LEU:HA	1.81	0.43
2:K:470:ASN:OD1	2:K:473:THR:OG1	2.30	0.43
2:K:630:PRO:O	2:K:633:ALA:HB3	2.19	0.43
2:K:892:LEU:HD12	2:K:892:LEU:HA	1.91	0.43
2:L:67:ARG:HG2	2:L:68:PHE:N	2.32	0.43
2:L:197:LYS:H	2:L:197:LYS:CD	2.32	0.43
2:L:204:LYS:HB3	2:L:205:ASP:H	1.36	0.43
2:L:219:PRO:HA	2:L:226:GLN:CB	2.48	0.43
2:L:299:ARG:CD	2:L:570:LEU:CD1	2.96	0.43
2:L:390:CYS:HB2	2:L:433:MET:O	2.19	0.43
2:L:539:PHE:O	2:L:543:LYS:HB2	2.19	0.43
2:L:622:ALA:HB1	2:L:892:LEU:CG	2.48	0.43
3:M:104:ALA:C	3:M:106:THR:H	2.27	0.43
3:M:182:ASN:O	3:M:182:ASN:CG	2.61	0.43
3:M:282:LEU:O	3:M:283:LEU:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:158:LEU:HD22	5:O:159:PRO:CD	2.48	0.43
7:U:70:ASN:O	7:U:70:ASN:OD1	2.36	0.43
7:U:98:GLU:HG2	7:U:168:PHE:CZ	2.50	0.43
1:8:30:LEU:HD13	2:B:855:MET:C	2.44	0.43
2:B:95:ASP:OD1	2:B:95:ASP:C	2.62	0.43
2:B:244:LEU:N	2:B:244:LEU:CD2	2.82	0.43
2:B:358:ARG:O	2:B:359:TYR:CG	2.71	0.43
2:B:375:ARG:HD2	2:B:375:ARG:HA	1.64	0.43
2:B:453:TYR:CD2	2:B:510:HIS:HA	2.50	0.43
2:B:454:LEU:CD2	2:B:502:MET:CB	2.93	0.43
2:B:483:VAL:C	2:B:485:SER:N	2.75	0.43
2:B:544:ASN:C	2:B:616:PHE:CE2	2.97	0.43
2:B:651:TRP:HE1	2:B:876:MET:CE	2.24	0.43
2:B:718:ILE:HD11	2:B:738:TRP:CE3	2.54	0.43
2:C:134:GLU:OE2	2:C:144:ARG:HD3	2.19	0.43
2:C:178:GLN:HB3	2:C:180:GLU:CD	2.44	0.43
2:C:208:PRO:CA	2:C:285:ILE:HG12	2.45	0.43
2:C:362:MET:O	2:C:363:TRP:C	2.59	0.43
2:C:878:PHE:CD2	2:C:889:LEU:HD11	2.54	0.43
2:D:73:ARG:HD2	2:D:586:ILE:HD12	1.99	0.43
2:D:135:TRP:CH2	2:D:286:SER:HB3	2.53	0.43
2:D:303:ILE:HD13	2:D:568:SER:CA	2.49	0.43
2:D:636:VAL:CG1	2:D:889:LEU:CD2	2.96	0.43
2:D:678:VAL:O	2:D:680:TYR:N	2.48	0.43
2:D:704:TRP:CD1	2:D:705:PRO:HD3	2.54	0.43
2:E:558:PHE:CD1	2:E:558:PHE:N	2.87	0.43
2:E:755:TYR:O	2:E:756:VAL:HG12	2.19	0.43
2:E:802:VAL:HG22	2:E:803:GLY:H	1.83	0.43
2:F:14:HIS:CE1	2:F:23:TYR:CE1	3.07	0.43
2:F:154:ILE:HG13	2:F:197:LYS:HG3	2.01	0.43
2:F:349:MET:CA	2:F:619:TYR:HD2	2.28	0.43
2:F:662:PRO:CA	2:F:672:PHE:HE2	2.31	0.43
2:G:159:GLY:HA3	2:G:261:TYR:OH	2.18	0.43
2:G:178:GLN:NE2	2:H:813:GLN:OE1	2.52	0.43
2:G:306:ARG:NH2	2:G:675:SER:O	2.52	0.43
2:G:312:LEU:HD11	2:G:565:ILE:HB	2.01	0.43
2:G:490:TYR:CD1	2:G:820:PRO:HG3	2.54	0.43
2:G:513:ASN:O	2:G:517:ARG:HB2	2.19	0.43
2:H:90:ASP:OD1	2:H:906:ARG:NH2	2.49	0.43
2:H:96:MET:HE1	2:H:324:LEU:HD11	2.01	0.43
2:H:596:ALA:O	2:H:599:THR:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:377:ILE:O	2:I:377:ILE:HG23	2.19	0.43
2:I:743:MET:HE2	2:I:743:MET:HB2	1.78	0.43
2:J:137:ASP:C	2:J:139:ASN:N	2.72	0.43
2:J:384:ASP:OD2	2:J:436:ASN:ND2	2.52	0.43
2:J:447:TYR:CD1	2:K:386:LEU:HD11	2.54	0.43
2:J:451:ALA:C	2:J:453:TYR:H	2.24	0.43
2:J:823:LEU:HD23	2:L:526:GLY:HA3	1.98	0.43
2:K:101:PHE:CG	2:K:558:PHE:HZ	2.36	0.43
2:K:390:CYS:SG	2:L:390:CYS:SG	3.17	0.43
2:K:444:SER:HA	2:L:386:LEU:HD22	2.01	0.43
2:K:639:SER:O	2:K:640:ILE:HD13	2.19	0.43
2:L:94:LEU:HD23	2:L:94:LEU:C	2.44	0.43
2:L:113:PHE:CD1	2:L:115:PRO:HD3	2.54	0.43
2:L:147:ALA:HB3	2:L:198:VAL:CG2	2.48	0.43
2:L:588:LEU:HD12	2:L:589:TYR:N	2.33	0.43
2:L:709:ARG:HB3	2:L:710:LEU:H	1.37	0.43
2:L:720:ARG:HD2	2:L:735:THR:HG22	1.96	0.43
2:L:753:GLY:O	2:L:755:TYR:HD1	2.01	0.43
2:L:875:ASP:OD1	2:L:875:ASP:C	2.62	0.43
3:M:249:SER:OG	3:M:250:ARG:N	2.52	0.43
3:M:335:GLN:O	3:M:336:ASN:HB2	2.19	0.43
5:O:39:MET:HA	5:O:42:ILE:HG12	2.00	0.43
5:O:183:VAL:O	5:O:187:GLU:CG	2.67	0.43
5:O:283:PHE:HE2	7:T:62:THR:HG23	1.84	0.43
7:T:59:ALA:CA	7:T:199:VAL:HG11	2.49	0.43
2:A:100:TYR:CD1	2:A:100:TYR:O	2.72	0.42
2:A:114:LYS:HA	2:B:824:ILE:HG21	2.01	0.42
2:A:121:TYR:HE2	2:A:216:TYR:CB	2.29	0.42
2:A:220:THR:N	2:B:788:GLN:OE1	2.52	0.42
2:A:569:SER:O	2:A:570:LEU:C	2.62	0.42
2:A:699:ASP:CA	2:A:873:ALA:O	2.67	0.42
2:A:732:CYS:HB3	2:A:773:PRO:HB3	2.00	0.42
2:B:11:SER:OG	7:T:185:ARG:HD2	2.19	0.42
2:B:20:ALA:O	2:B:24:LEU:HD13	2.18	0.42
2:B:86:LEU:HD12	2:B:86:LEU:HA	1.89	0.42
2:B:114:LYS:NZ	2:B:298:ASN:C	2.74	0.42
2:B:119:THR:HG22	2:B:213:TYR:CZ	2.54	0.42
2:B:776:ARG:C	2:B:777:GLN:HG2	2.43	0.42
2:B:793:PRO:HB2	2:B:794:PHE:CG	2.54	0.42
2:B:846:ILE:O	2:B:847:PRO:C	2.59	0.42
2:C:211:PRO:CD	2:C:211:PRO:O	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:302:TYR:HB3	2:C:520:SER:HB3	2.01	0.42
2:C:344:LEU:HD12	2:C:681:LEU:O	2.19	0.42
2:C:490:TYR:CA	2:C:819:TYR:CZ	2.94	0.42
2:C:691:PHE:CB	2:C:718:ILE:HD13	2.25	0.42
2:C:691:PHE:O	2:C:719:LYS:HG3	2.19	0.42
2:C:827:THR:O	2:C:828:ALA:C	2.61	0.42
2:D:12:TYR:O	2:D:12:TYR:CD1	2.72	0.42
2:D:850:SER:HG	2:F:57:THR:HG21	1.84	0.42
2:E:52:PRO:HB2	2:E:56:VAL:HG11	2.01	0.42
2:E:77:ALA:C	2:E:78:TYR:CD1	2.97	0.42
2:E:107:LEU:HD21	2:E:109:ARG:CG	2.48	0.42
2:E:137:ASP:HB2	2:E:138:ASN:H	1.55	0.42
2:E:285:ILE:HG13	2:E:286:SER:H	1.84	0.42
2:E:634:THR:O	2:E:634:THR:OG1	2.32	0.42
2:E:653:PHE:HB3	2:E:691:PHE:CE2	2.44	0.42
2:E:718:ILE:O	2:E:718:ILE:CG2	2.67	0.42
2:E:762:ASP:O	2:E:769:ARG:CZ	2.67	0.42
2:F:114:LYS:NZ	2:F:114:LYS:CB	2.59	0.42
2:F:210:LEU:HD22	2:F:268:GLU:O	2.19	0.42
2:F:334:VAL:O	2:F:334:VAL:CG2	2.65	0.42
2:F:341:ASN:ND2	2:F:344:LEU:HB3	2.34	0.42
2:G:148:PRO:HA	2:I:428:GLY:C	2.44	0.42
2:G:295:ALA:O	2:G:296:ALA:HB2	2.18	0.42
2:G:402:TYR:HB3	2:H:248:ALA:C	2.43	0.42
2:G:644:ASN:OD1	2:G:645:TRP:N	2.52	0.42
2:H:9:GLN:HG2	2:H:10:TRP:N	2.34	0.42
2:H:35:THR:O	2:H:35:THR:OG1	2.31	0.42
2:H:356:ARG:HH21	2:H:367:VAL:CA	2.32	0.42
2:H:374:VAL:HA	2:H:377:ILE:HG22	2.01	0.42
2:H:405:ILE:HB	2:I:246:PHE:HB2	2.01	0.42
2:H:410:GLN:C	2:H:411:THR:HG22	2.44	0.42
2:H:516:LEU:HA	2:H:519:ARG:NH2	2.34	0.42
2:H:562:VAL:HG13	2:H:563:ASN:N	2.33	0.42
2:I:140:LYS:HB3	2:I:141:ILE:H	1.52	0.42
2:I:187:GLN:C	2:I:189:ASN:H	2.25	0.42
2:I:214:GLY:HA3	2:I:272:THR:CG2	2.37	0.42
2:I:218:LYS:O	2:I:218:LYS:HG2	2.19	0.42
2:I:351:ASP:OD2	2:I:765:TYR:HD2	2.02	0.42
2:I:375:ARG:HG3	2:I:375:ARG:NH1	2.33	0.42
2:J:275:VAL:HG23	2:J:294:GLN:OE1	2.19	0.42
2:J:744:LEU:HD23	2:J:750:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:272:THR:C	2:K:298:ASN:HD21	2.27	0.42
2:K:307:ASP:C	2:K:309:PHE:N	2.77	0.42
2:K:453:TYR:OH	2:K:510:HIS:HA	2.18	0.42
2:L:100:TYR:CE2	2:L:534:GLN:HG2	2.54	0.42
2:L:219:PRO:HB2	2:L:226:GLN:HG2	2.00	0.42
2:L:537:GLN:HE21	2:L:542:ILE:CD1	2.31	0.42
3:M:455:GLU:O	3:M:457:VAL:HG13	2.19	0.42
5:O:199:THR:OG1	5:O:204:LEU:CD2	2.67	0.42
6:P:16:VAL:HG12	6:P:16:VAL:O	2.19	0.42
6:Q:20:TYR:CD1	6:R:20:TYR:HB3	2.53	0.42
7:T:93:ARG:HH21	7:T:93:ARG:HD2	1.53	0.42
7:U:3:LYS:HG2	7:U:5:ILE:H	1.84	0.42
7:U:9:TYR:CG	7:U:218:PHE:HE2	2.37	0.42
2:A:102:ASP:OD1	2:A:102:ASP:C	2.62	0.42
2:A:109:ARG:HB2	2:A:527:ARG:HA	2.01	0.42
2:A:469:GLU:N	2:A:469:GLU:CD	2.76	0.42
2:A:521:MET:O	2:A:524:GLY:N	2.47	0.42
2:B:222:GLU:O	2:B:222:GLU:CG	2.64	0.42
2:B:552:TYR:CE2	2:B:909:ILE:CG1	2.91	0.42
2:C:69:VAL:HG23	2:E:72:ASP:CG	2.44	0.42
2:C:107:LEU:HD21	2:C:566:LEU:HD11	2.00	0.42
2:C:272:THR:HB	2:C:273:HIS:H	1.71	0.42
2:C:348:LEU:HB3	2:C:619:TYR:CE2	2.55	0.42
2:C:375:ARG:HB3	2:C:376:ILE:CD1	2.28	0.42
2:C:743:MET:CE	2:C:749:ILE:CD1	2.97	0.42
2:C:747:TYR:HE2	2:C:768:PHE:HB2	1.84	0.42
2:C:780:ASN:ND2	2:C:783:THR:OG1	2.52	0.42
2:C:809:MET:HB2	2:C:810:ARG:H	1.69	0.42
2:D:109:ARG:NH2	2:D:526:GLY:O	2.50	0.42
2:D:187:GLN:CD	2:D:394:GLY:HA2	2.44	0.42
2:D:215:SER:C	2:D:217:ALA:N	2.76	0.42
2:D:400:ASP:OD1	2:D:400:ASP:C	2.62	0.42
2:D:453:TYR:N	2:D:453:TYR:CD1	2.87	0.42
2:D:686:TYR:CD1	2:D:687:LEU:N	2.87	0.42
2:D:801:PHE:CA	2:E:391:PHE:CE2	3.02	0.42
2:E:142:LYS:N	2:E:142:LYS:CD	2.79	0.42
2:E:201:ARG:HG2	2:F:813:GLN:OE1	2.19	0.42
2:E:353:LEU:HD12	2:E:353:LEU:HA	1.85	0.42
2:E:710:LEU:HB3	2:E:714:ASN:H	1.84	0.42
2:E:744:LEU:HD12	2:E:744:LEU:HA	1.77	0.42
2:E:912:VAL:C	2:E:913:TYR:HD1	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:103:ILE:HD11	2:F:312:LEU:HD21	2.01	0.42
2:F:435:ILE:CG2	2:F:436:ASN:N	2.82	0.42
2:F:625:MET:HB3	6:Q:24:ARG:HH11	1.83	0.42
2:G:125:ALA:HB1	2:H:801:PHE:HE2	1.84	0.42
2:G:440:ASN:HB3	2:H:388:ASN:ND2	2.34	0.42
2:G:672:PHE:HZ	2:G:678:VAL:CG1	2.32	0.42
2:G:697:MET:HB2	2:G:875:ASP:O	2.19	0.42
2:G:736:LYS:NZ	2:I:589:TYR:CD2	2.87	0.42
2:H:60:ARG:HB2	2:H:597:HIS:CE1	2.55	0.42
2:H:215:SER:O	2:I:817:ALA:N	2.52	0.42
2:I:202:VAL:HG11	2:I:260:LEU:HD23	1.97	0.42
2:I:371:ASP:C	2:I:373:ASP:H	2.27	0.42
2:I:477:MET:HE1	2:I:570:LEU:O	2.18	0.42
2:I:515:GLY:C	2:I:519:ARG:NH1	2.76	0.42
2:I:537:GLN:NE2	2:I:542:ILE:HD11	2.35	0.42
2:J:211:PRO:HG3	2:J:295:ALA:HB2	2.01	0.42
2:J:219:PRO:HB2	2:J:220:THR:H	1.32	0.42
2:J:658:THR:OG1	2:J:886:PRO:O	2.37	0.42
2:J:748:ASN:OD1	2:J:853:MET:CG	2.66	0.42
2:J:911:ALA:O	4:N:171:PRO:HD2	2.19	0.42
2:J:916:THR:CG2	2:J:917:PRO:HD2	2.16	0.42
2:K:251:SER:C	2:K:253:PRO:HD2	2.44	0.42
2:K:417:ASN:HB2	2:L:139:ASN:ND2	2.31	0.42
2:K:797:ASN:OD1	2:K:817:ALA:HB2	2.19	0.42
2:K:844:TRP:HA	2:K:844:TRP:CE3	2.54	0.42
2:L:95:ASP:OD1	2:L:97:ALA:N	2.52	0.42
2:L:649:ARG:CG	2:L:896:PHE:CE1	3.01	0.42
2:L:658:THR:HA	2:L:888:LEU:CD1	2.50	0.42
2:L:662:PRO:HD3	2:L:672:PHE:HE2	1.83	0.42
2:L:712:THR:HG22	2:L:715:GLU:HG2	2.01	0.42
3:M:177:ILE:HD11	3:M:255:LEU:HD22	2.01	0.42
3:M:283:LEU:HD12	3:M:284:ASP:H	1.84	0.42
5:O:216:LEU:HA	5:O:216:LEU:HD23	1.65	0.42
7:U:233:ASP:OD1	7:U:233:ASP:C	2.62	0.42
8:X:16:PRO:O	8:X:17:TYR:HB2	2.18	0.42
2:A:95:ASP:OD2	2:B:752:GLN:HA	2.19	0.42
2:A:246:PHE:HD1	2:A:247:PHE:N	2.17	0.42
2:A:358:ARG:HB2	2:B:756:VAL:HG21	2.01	0.42
2:A:449:ASN:CG	2:A:512:ARG:HD2	2.44	0.42
2:A:546:LEU:HB2	2:C:44:LYS:HE2	2.02	0.42
2:A:672:PHE:HE1	2:A:674:TYR:O	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:711:LEU:O	2:A:713:PRO:HD3	2.20	0.42
2:A:727:TYR:O	2:A:736:LYS:HG3	2.19	0.42
2:B:26:PRO:HA	2:B:29:VAL:CG1	2.48	0.42
2:B:271:ASP:O	2:B:272:THR:HB	2.19	0.42
2:B:382:VAL:O	2:B:382:VAL:HG23	2.19	0.42
2:B:584:ASP:O	2:B:585:SER:OG	2.30	0.42
2:B:717:GLU:O	2:B:738:TRP:HB2	2.18	0.42
2:B:734:MET:HE1	2:B:739:PHE:HB2	2.01	0.42
2:B:747:TYR:OH	2:B:768:PHE:N	2.47	0.42
2:C:149:PHE:HB2	2:C:177:TYR:HH	1.83	0.42
2:C:203:LEU:N	2:C:203:LEU:CD1	2.80	0.42
2:C:306:ARG:NH2	2:C:678:VAL:HG23	2.34	0.42
2:C:369:SER:OG	2:C:370:TYR:N	2.51	0.42
2:C:686:TYR:CE1	2:C:687:LEU:CD1	3.02	0.42
2:C:751:TYR:CE2	2:C:853:MET:HE2	2.54	0.42
2:C:820:PRO:HD2	2:C:820:PRO:O	2.19	0.42
2:C:824:ILE:O	2:C:824:ILE:HG13	2.19	0.42
2:D:124:LEU:O	2:D:124:LEU:HG	2.19	0.42
2:D:285:ILE:O	2:D:286:SER:C	2.62	0.42
2:D:334:VAL:O	2:D:334:VAL:HG12	2.17	0.42
2:D:415:ASP:CB	2:E:141:ILE:HG12	2.50	0.42
2:D:513:ASN:OD1	2:D:513:ASN:C	2.61	0.42
2:D:563:ASN:HD21	2:D:574:LEU:N	2.17	0.42
2:D:635:SER:O	2:D:637:PRO:HD3	2.19	0.42
2:E:138:ASN:CB	2:E:140:LYS:HE3	2.37	0.42
2:E:265:VAL:HG23	2:E:267:ILE:H	1.84	0.42
2:E:303:ILE:O	2:E:520:SER:HA	2.20	0.42
2:E:350:LEU:HB2	2:E:356:ARG:CD	2.47	0.42
2:E:356:ARG:HB2	2:E:764:MET:HE2	2.00	0.42
2:E:489:THR:O	2:E:493:ILE:CD1	2.66	0.42
2:E:645:TRP:CE3	2:E:648:PHE:CD2	3.07	0.42
2:E:649:ARG:CZ	2:E:894:GLU:OE2	2.67	0.42
2:E:915:ARG:NH2	2:E:918:PHE:O	2.52	0.42
2:F:561:ASP:OD2	2:F:564:MET:HE3	2.19	0.42
2:F:603:LEU:CD1	2:F:607:LEU:CD1	2.97	0.42
2:F:890:TYR:HE1	2:F:892:LEU:CG	2.32	0.42
2:F:896:PHE:N	2:F:896:PHE:CD1	2.87	0.42
2:G:119:THR:HG23	2:G:271:ASP:OD2	2.20	0.42
2:G:155:ASN:HB2	2:G:169:GLN:HE21	1.84	0.42
2:G:305:PHE:CE2	2:G:533:ILE:HD13	2.54	0.42
2:G:377:ILE:CG1	2:G:446:LEU:HD21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:437:LEU:HD23	2:G:437:LEU:HA	1.78	0.42
2:G:791:THR:C	2:G:795:GLN:HE22	2.10	0.42
2:H:127:LYS:O	2:H:127:LYS:CG	2.64	0.42
2:H:155:ASN:O	2:H:156:LYS:C	2.60	0.42
2:H:158:ASN:H	2:H:158:ASN:ND2	2.09	0.42
2:H:255:GLU:O	2:H:255:GLU:OE2	2.37	0.42
2:H:323:VAL:HG22	2:H:555:GLU:CG	2.39	0.42
2:H:376:ILE:O	2:H:377:ILE:C	2.62	0.42
2:H:443:ARG:CG	2:H:488:ASP:OD1	2.66	0.42
2:H:447:TYR:HA	2:H:451:ALA:HB3	2.00	0.42
2:H:497:TRP:HZ3	2:H:776:ARG:HG2	1.74	0.42
2:H:509:ASN:HD21	2:H:677:SER:H	1.67	0.42
2:H:621:CYS:SG	2:H:621:CYS:O	2.77	0.42
2:H:730:ALA:C	2:H:732:CYS:N	2.72	0.42
2:H:757:PRO:HD2	2:H:768:PHE:CD2	2.54	0.42
2:I:28:LEU:O	2:I:28:LEU:HD12	2.20	0.42
2:I:152:THR:O	2:I:161:GLN:HB3	2.19	0.42
2:I:287:SER:O	2:I:289:ASP:N	2.52	0.42
2:I:497:TRP:NE1	2:I:776:ARG:CZ	2.82	0.42
2:I:881:ASP:HB3	2:I:882:PRO:HD2	2.00	0.42
2:J:334:VAL:O	2:J:334:VAL:CG2	2.67	0.42
2:J:648:PHE:HE2	2:J:651:TRP:CZ2	2.37	0.42
2:J:730:ALA:H	2:L:534:GLN:HE22	1.67	0.42
2:J:784:TYR:CE2	2:J:786:GLU:CG	3.02	0.42
2:K:355:ASP:OD1	2:K:355:ASP:C	2.62	0.42
2:K:476:TYR:CE1	2:K:480:ARG:HD2	2.54	0.42
2:K:562:VAL:HA	2:K:565:ILE:HG22	2.00	0.42
2:K:622:ALA:CB	2:K:894:GLU:HA	2.48	0.42
2:L:116:TYR:N	2:L:302:TYR:HE1	2.16	0.42
2:L:305:PHE:CE2	2:L:533:ILE:HG21	2.54	0.42
2:L:366:ALA:O	2:L:519:ARG:NH1	2.52	0.42
2:L:376:ILE:O	2:L:376:ILE:HG13	2.19	0.42
2:L:548:LEU:HD21	2:L:607:LEU:HD22	2.00	0.42
2:L:864:ASN:OD1	7:U:230:ASP:OD2	2.36	0.42
3:M:132:ILE:HG23	3:M:139:ASN:CA	2.49	0.42
3:M:209:ARG:HD3	3:M:229:ASN:HA	2.00	0.42
3:M:226:VAL:CA	3:M:282:LEU:HD11	2.49	0.42
3:M:279:ILE:HB	3:M:338:THR:HG22	2.00	0.42
5:O:42:ILE:HG22	5:O:53:PHE:CE2	2.54	0.42
7:T:13:TYR:HB2	7:T:194:PHE:CE2	2.54	0.42
1:0:26:ARG:CZ	1:0:29:MET:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:8:PRO:O	2:A:10:TRP:N	2.53	0.42
2:A:327:GLN:H	2:A:327:GLN:HG2	1.41	0.42
2:A:437:LEU:O	2:A:437:LEU:CD1	2.67	0.42
2:A:704:TRP:CD2	2:A:705:PRO:N	2.84	0.42
2:A:777:GLN:OE1	2:C:524:GLY:HA3	2.19	0.42
2:B:227:ALA:HB1	2:B:240:SER:HB3	1.95	0.42
2:B:299:ARG:CG	2:B:300:PRO:HD3	2.14	0.42
2:B:506:ASN:OD1	2:B:686:TYR:CD2	2.72	0.42
2:B:742:GLN:C	2:B:744:LEU:H	2.27	0.42
2:B:848:PHE:CE2	2:B:862:GLY:N	2.87	0.42
2:B:869:ASN:O	2:B:869:ASN:CG	2.53	0.42
2:B:895:VAL:CG2	2:B:896:PHE:N	2.81	0.42
2:C:13:MET:HA	2:C:13:MET:CE	2.45	0.42
2:C:67:ARG:CD	2:C:589:TYR:CE1	2.95	0.42
2:C:546:LEU:HD12	2:C:546:LEU:HA	1.81	0.42
2:C:819:TYR:CE1	2:C:820:PRO:HB3	2.54	0.42
2:D:65:THR:HG23	2:D:65:THR:O	2.19	0.42
2:D:102:ASP:OD2	2:D:589:TYR:HE2	2.02	0.42
2:D:565:ILE:HG13	2:D:566:LEU:HD23	2.00	0.42
2:E:273:HIS:O	2:E:274:LEU:C	2.62	0.42
2:E:549:PRO:HD2	2:E:604:GLU:CG	2.48	0.42
2:E:687:LEU:HD21	2:E:883:MET:SD	2.59	0.42
2:E:825:GLY:C	2:E:827:THR:N	2.77	0.42
2:E:874:LEU:HD12	2:E:874:LEU:HA	1.88	0.42
2:F:5:SER:OG	2:F:6:MET:N	2.51	0.42
2:F:106:VAL:HA	2:F:530:PRO:HA	2.02	0.42
2:F:186:THR:N	2:F:187:GLN:OE1	2.52	0.42
2:F:575:ARG:HE	2:F:668:PHE:HE1	1.67	0.42
2:F:885:GLU:HG3	2:F:886:PRO:CD	2.46	0.42
2:G:111:PRO:HA	2:G:527:ARG:HH12	1.83	0.42
2:G:116:TYR:CD2	2:H:493:ILE:HG21	2.54	0.42
2:G:142:LYS:HG3	2:I:423:ALA:HB1	2.00	0.42
2:G:377:ILE:HG23	2:G:497:TRP:O	2.19	0.42
2:G:529:VAL:HG12	2:H:777:GLN:NE2	2.34	0.42
2:G:699:ASP:HB2	2:G:702:VAL:HG21	2.00	0.42
2:H:30:GLN:OE1	2:H:30:GLN:HA	2.19	0.42
2:H:119:THR:HG22	2:H:121:TYR:H	1.84	0.42
2:H:150:ILE:HD12	2:H:183:VAL:CG2	2.48	0.42
2:H:160:ILE:HG22	2:H:259:VAL:HG23	2.00	0.42
2:H:250:PRO:O	2:H:252:THR:N	2.52	0.42
2:H:725:GLU:HB3	2:H:727:TYR:CZ	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:84:PHE:HB2	2:I:554:TYR:O	2.20	0.42
2:I:147:ALA:CA	2:I:200:GLY:HA3	2.50	0.42
2:I:223:LYS:O	2:I:224:GLY:C	2.62	0.42
2:I:338:GLN:O	2:I:338:GLN:HG2	2.19	0.42
2:I:379:ASN:OD1	2:I:379:ASN:C	2.62	0.42
2:I:393:LEU:HD23	2:I:393:LEU:HA	1.89	0.42
2:I:483:VAL:HG12	2:I:805:MET:O	2.19	0.42
2:I:650:GLY:O	2:I:894:GLU:HG3	2.18	0.42
2:J:125:ALA:CA	2:K:801:PHE:CE2	3.02	0.42
2:J:160:ILE:O	2:J:170:PRO:HD2	2.19	0.42
2:J:483:VAL:HG23	2:J:486:ALA:HB2	2.00	0.42
2:J:490:TYR:CE2	2:J:820:PRO:HD3	2.54	0.42
2:J:516:LEU:HA	2:J:519:ARG:CZ	2.49	0.42
2:J:541:ALA:HB2	2:J:899:VAL:HG11	2.00	0.42
2:J:707:ASN:O	2:J:708:ASP:C	2.62	0.42
2:K:28:LEU:O	2:K:28:LEU:HG	2.16	0.42
2:K:340:ARG:HH11	2:K:540:PHE:HE1	1.66	0.42
2:K:348:LEU:HD12	2:K:348:LEU:HA	1.82	0.42
2:K:895:VAL:HA	2:K:917:PRO:HG3	2.01	0.42
2:L:39:PHE:CD2	2:L:41:LEU:HD11	2.54	0.42
2:L:221:ASN:O	2:L:223:LYS:N	2.53	0.42
2:L:374:VAL:CG1	2:L:449:ASN:HD22	2.26	0.42
2:L:797:ASN:OD1	2:L:817:ALA:HB2	2.18	0.42
2:L:895:VAL:CB	2:L:917:PRO:HG2	2.49	0.42
5:O:151:LEU:HG	5:O:155:LEU:CD1	2.48	0.42
7:U:31:MET:HE1	7:U:47:ILE:CD1	2.49	0.42
2:A:391:PHE:HB2	2:A:392:PRO:HD2	2.01	0.42
2:A:449:ASN:ND2	2:A:512:ARG:HD2	2.34	0.42
2:A:488:ASP:H	2:A:491:VAL:HB	1.84	0.42
2:A:521:MET:HE3	2:A:521:MET:HB2	1.91	0.42
2:A:546:LEU:HB3	2:A:614:GLN:HE22	1.84	0.42
2:B:376:ILE:O	2:B:377:ILE:C	2.60	0.42
2:C:47:ASN:O	2:C:47:ASN:OD1	2.37	0.42
2:C:81:LYS:NZ	2:C:555:GLU:OE2	2.51	0.42
2:C:100:TYR:CE2	2:C:362:MET:HE1	2.54	0.42
2:C:193:GLY:O	2:C:195:ALA:N	2.52	0.42
2:C:348:LEU:HB3	2:C:619:TYR:HE2	1.84	0.42
2:C:359:TYR:OH	2:C:514:ALA:HB1	2.20	0.42
2:C:449:ASN:C	2:C:510:HIS:HE1	2.27	0.42
2:C:865:MET:HG3	7:T:222:TYR:O	2.19	0.42
2:D:172:TYR:CE1	2:D:175:LYS:HD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:324:LEU:HD12	2:D:553:THR:O	2.19	0.42
2:D:480:ARG:HH11	2:D:480:ARG:HG2	1.84	0.42
2:D:653:PHE:HE1	2:D:846:ILE:HD11	1.84	0.42
2:D:684:THR:O	2:D:685:PHE:CD1	2.72	0.42
2:D:799:SER:OG	2:D:814:ALA:HA	2.18	0.42
2:D:897:ASP:OD1	2:D:897:ASP:C	2.62	0.42
2:E:47:ASN:O	2:E:48:PRO:HB3	2.10	0.42
2:E:53:THR:HG23	2:E:54:HIS:N	2.35	0.42
2:E:62:GLN:NE2	2:E:597:HIS:HE1	2.17	0.42
2:E:205:ASP:O	2:E:205:ASP:CG	2.61	0.42
2:E:497:TRP:CD2	2:E:776:ARG:CG	3.03	0.42
2:E:518:TYR:CE1	2:E:522:LEU:HD12	2.54	0.42
2:E:607:LEU:HD23	2:E:607:LEU:HA	1.81	0.42
2:E:648:PHE:CZ	2:E:651:TRP:CD1	3.07	0.42
2:E:651:TRP:NE1	2:E:876:MET:CE	2.83	0.42
2:E:744:LEU:HD21	2:E:751:TYR:OH	2.18	0.42
2:F:375:ARG:HD3	2:F:507:PRO:CG	2.25	0.42
2:F:445:PHE:CD1	2:F:445:PHE:C	2.96	0.42
2:F:545:LEU:HD13	2:F:616:PHE:CE2	2.53	0.42
2:F:545:LEU:HD21	2:F:909:ILE:HD11	2.01	0.42
2:F:703:SER:O	2:F:706:GLY:HA2	2.19	0.42
2:G:51:ALA:HB2	2:H:856:GLY:HA3	2.01	0.42
2:G:148:PRO:HA	2:I:428:GLY:O	2.20	0.42
2:G:201:ARG:HD3	2:H:815:TYR:CE2	2.54	0.42
2:G:219:PRO:HA	2:G:225:GLY:O	2.20	0.42
2:G:324:LEU:CD2	2:G:542:ILE:HG12	2.48	0.42
2:G:742:GLN:OE1	2:G:742:GLN:CA	2.67	0.42
2:G:750:GLY:HA2	2:G:754:PHE:CD1	2.55	0.42
2:G:765:TYR:CD1	2:G:841:ARG:HG3	2.55	0.42
2:H:104:ARG:HG3	2:H:104:ARG:NH1	2.35	0.42
2:H:176:THR:C	2:H:177:TYR:CD2	2.97	0.42
2:H:217:ALA:O	2:H:218:LYS:C	2.62	0.42
2:H:223:LYS:HG2	2:I:794:PHE:CE2	2.54	0.42
2:H:421:ARG:HH12	2:I:142:LYS:CE	2.33	0.42
2:H:499:PRO:O	2:H:502:MET:N	2.51	0.42
2:H:637:PRO:HD3	6:P:18:SER:OG	2.18	0.42
2:H:643:ARG:NH2	2:H:919:SER:N	2.67	0.42
2:H:710:LEU:HD12	2:H:710:LEU:N	2.33	0.42
2:I:135:TRP:HH2	2:I:291:LEU:CD1	2.32	0.42
2:I:599:THR:CA	2:I:602:THR:HG22	2.47	0.42
2:I:654:THR:HG21	2:I:685:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:197:LYS:HG2	2:J:257:LYS:O	2.20	0.42
2:J:418:TYR:C	2:J:421:ARG:HB2	2.45	0.42
2:J:653:PHE:CZ	2:J:846:ILE:HD11	2.54	0.42
2:J:710:LEU:HD23	2:J:710:LEU:HA	1.78	0.42
2:J:720:ARG:HG3	2:J:720:ARG:HH11	1.83	0.42
2:K:15:ILE:O	2:K:15:ILE:HG13	2.18	0.42
2:K:84:PHE:HZ	2:K:586:ILE:CG2	2.22	0.42
2:K:140:LYS:C	2:K:141:ILE:HG13	2.45	0.42
2:K:207:THR:O	2:K:209:MET:N	2.52	0.42
2:K:356:ARG:NH2	2:K:367:VAL:HA	2.32	0.42
2:K:450:VAL:HB	2:K:510:HIS:CE1	2.54	0.42
2:K:742:GLN:HG3	2:K:844:TRP:CZ3	2.55	0.42
2:K:810:ARG:CD	2:L:432:ALA:HB2	2.45	0.42
2:L:649:ARG:CG	2:L:896:PHE:HE1	2.33	0.42
3:M:35:GLU:O	3:M:36:ALA:HB3	2.19	0.42
3:M:235:ASP:HB3	3:M:344:PHE:HB2	2.02	0.42
5:O:205:GLN:HE22	7:T:69:LEU:HD23	1.85	0.42
6:P:23:THR:CG2	6:R:21:LEU:HD12	2.32	0.42
6:Q:12:PHE:O	6:Q:12:PHE:HD1	2.03	0.42
6:S:13:LYS:HB3	6:S:14:GLY:H	1.55	0.42
7:T:222:TYR:OH	7:T:227:GLU:HA	2.19	0.42
2:A:46:ARG:NH2	2:B:617:ASN:HD22	2.17	0.42
2:A:83:ARG:HG3	2:A:555:GLU:HB2	2.00	0.42
2:A:226:GLN:NE2	2:B:818:ASN:OD1	2.52	0.42
2:A:310:ILE:CD1	2:A:343:GLU:O	2.67	0.42
2:A:664:LEU:O	2:A:664:LEU:CG	2.65	0.42
2:B:13:MET:CB	2:C:898:VAL:HG21	2.42	0.42
2:B:116:TYR:CE2	2:B:120:ALA:HB2	2.55	0.42
2:B:190:SER:HB2	2:B:191:GLU:H	1.55	0.42
2:B:481:VAL:O	2:B:481:VAL:HG13	2.20	0.42
2:B:508:PHE:CZ	2:B:684:THR:HB	2.55	0.42
2:B:517:ARG:HE	2:C:380:HIS:CD2	2.37	0.42
2:B:725:GLU:HG2	2:B:727:TYR:HD2	1.83	0.42
2:C:278:PRO:HG3	2:C:290:LEU:C	2.44	0.42
2:C:290:LEU:HD12	2:C:290:LEU:N	2.22	0.42
2:C:442:TRP:O	2:C:445:PHE:HB3	2.19	0.42
2:C:640:ILE:HG23	2:C:641:PRO:HD2	2.02	0.42
2:C:729:VAL:HG12	2:C:734:MET:C	2.44	0.42
2:C:803:GLY:HA2	2:C:809:MET:O	2.20	0.42
2:D:80:TYR:CE2	2:D:583:PHE:HD2	2.38	0.42
2:D:88:VAL:HG12	2:D:550:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:327:GLN:OE1	2:D:907:GLY:HA3	2.20	0.42
2:D:740:LEU:C	2:D:740:LEU:HD23	2.45	0.42
2:D:818:ASN:O	2:D:819:TYR:C	2.61	0.42
2:D:824:ILE:CD1	2:F:116:TYR:CE2	3.01	0.42
2:E:107:LEU:CD1	2:E:305:PHE:CE1	3.02	0.42
2:E:201:ARG:HB2	2:E:261:TYR:O	2.19	0.42
2:E:223:LYS:HA	2:F:794:PHE:CE2	2.54	0.42
2:E:248:ALA:C	2:E:249:LEU:HD22	2.44	0.42
2:E:388:ASN:HB3	2:E:437:LEU:HD13	2.01	0.42
2:E:478:ASN:C	2:E:478:ASN:OD1	2.61	0.42
2:E:836:LYS:HB2	2:E:836:LYS:HZ3	1.84	0.42
2:F:63:ARG:HB3	2:F:66:LEU:HD21	2.02	0.42
2:F:217:ALA:HB3	2:F:226:GLN:CG	2.48	0.42
2:F:302:TYR:O	2:F:516:LEU:HD11	2.19	0.42
2:F:459:LYS:HE3	2:F:482:ALA:N	2.35	0.42
2:F:610:ASP:HA	2:F:902:HIS:NE2	2.33	0.42
2:G:116:TYR:O	2:G:116:TYR:CD1	2.72	0.42
2:G:362:MET:HE3	2:G:363:TRP:CE3	2.54	0.42
2:G:374:VAL:CG1	2:G:510:HIS:HE1	2.33	0.42
2:G:458:TYR:CE2	2:G:501:PRO:HB3	2.55	0.42
2:G:645:TRP:O	2:G:646:ALA:C	2.63	0.42
2:G:718:ILE:O	2:G:719:LYS:CB	2.67	0.42
2:G:724:GLY:CA	2:G:726:GLY:CA	2.78	0.42
2:G:780:ASN:OD1	2:G:780:ASN:C	2.63	0.42
2:H:84:PHE:HD2	2:H:588:LEU:HD12	1.85	0.42
2:H:110:GLY:N	2:H:527:ARG:HH12	2.17	0.42
2:H:183:VAL:O	2:H:184:GLY:C	2.62	0.42
2:H:309:PHE:CD2	2:H:533:ILE:HD12	2.54	0.42
2:H:468:PRO:HD2	2:H:476:TYR:HA	2.01	0.42
2:H:488:ASP:O	2:H:490:TYR:CD2	2.73	0.42
2:H:497:TRP:HH2	2:H:834:GLN:HB3	1.84	0.42
2:H:539:PHE:HE1	2:H:541:ALA:CB	2.27	0.42
2:I:135:TRP:HH2	2:I:291:LEU:HG	1.85	0.42
2:I:471:LYS:HG2	2:I:476:TYR:CE2	2.54	0.42
2:I:702:VAL:O	2:I:702:VAL:HG23	2.20	0.42
2:J:3:THR:OG1	2:K:863:GLN:O	2.37	0.42
2:J:118:GLY:O	2:J:119:THR:OG1	2.29	0.42
2:J:157:ASP:O	2:J:158:ASN:ND2	2.53	0.42
2:J:162:ILE:CG1	2:J:170:PRO:HD3	2.50	0.42
2:J:203:LEU:N	2:J:203:LEU:HD12	2.34	0.42
2:J:278:PRO:HD2	2:J:293:GLN:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:408:ASN:HA	2:J:411:THR:HG22	2.00	0.42
2:J:410:GLN:OE1	2:J:410:GLN:CA	2.59	0.42
2:J:662:PRO:HD3	2:J:672:PHE:HE2	1.85	0.42
2:J:750:GLY:O	2:J:754:PHE:HE1	2.03	0.42
2:J:777:GLN:HG3	2:J:833:THR:HG22	2.01	0.42
2:K:53:THR:HG21	2:L:863:GLN:HG3	2.00	0.42
2:K:83:ARG:HH11	2:K:83:ARG:CG	2.31	0.42
2:K:250:PRO:C	2:K:252:THR:N	2.74	0.42
2:K:273:HIS:O	2:K:274:LEU:C	2.63	0.42
2:K:318:THR:HG23	2:K:338:GLN:HB2	2.01	0.42
2:K:790:VAL:HG23	2:K:795:GLN:CG	2.47	0.42
2:L:135:TRP:O	2:L:135:TRP:CE3	2.73	0.42
2:L:136:LYS:HD3	2:L:140:LYS:HG2	1.83	0.42
2:L:608:ARG:NH1	2:L:906:ARG:HA	2.34	0.42
2:L:784:TYR:CE2	2:L:829:VAL:HB	2.55	0.42
3:M:282:LEU:HD21	3:M:440:GLN:HG3	2.01	0.42
7:T:6:PRO:O	7:T:6:PRO:CG	2.65	0.42
7:U:32:ASN:O	7:U:32:ASN:OD1	2.37	0.42
2:A:114:LYS:HA	2:B:824:ILE:HG23	2.00	0.42
2:A:532:HIS:HD2	2:A:534:GLN:HE22	1.66	0.42
2:A:541:ALA:HB3	2:A:542:ILE:HG12	2.01	0.42
2:A:548:LEU:HB3	2:A:549:PRO:HD2	2.00	0.42
2:A:600:ALA:O	2:A:604:GLU:N	2.52	0.42
2:A:745:SER:HB2	2:A:847:PRO:HD2	2.00	0.42
2:A:799:SER:O	2:A:801:PHE:N	2.53	0.42
2:A:869:ASN:O	2:A:869:ASN:OD1	2.38	0.42
2:B:505:VAL:HG12	2:B:506:ASN:N	2.35	0.42
2:B:529:VAL:O	2:B:529:VAL:HG13	2.19	0.42
2:B:699:ASP:OD1	2:B:872:HIS:HB3	2.19	0.42
2:B:750:GLY:O	2:B:754:PHE:HE1	2.03	0.42
2:B:795:GLN:O	2:B:796:HIS:CB	2.65	0.42
2:B:843:MET:O	2:B:844:TRP:C	2.61	0.42
2:C:112:SER:HB3	2:C:474:TYR:CD2	2.55	0.42
2:C:370:TYR:HD2	2:C:375:ARG:HB2	1.84	0.42
2:C:776:ARG:HB3	2:C:777:GLN:H	1.42	0.42
2:D:223:LYS:CB	2:D:223:LYS:HZ2	2.25	0.42
2:D:358:ARG:HH22	2:E:762:ASP:CG	2.28	0.42
2:D:406:LYS:HD3	2:E:156:LYS:HZ2	1.85	0.42
2:D:443:ARG:O	2:D:447:TYR:HD1	2.02	0.42
2:D:462:PRO:HB2	2:D:465:ILE:CB	2.42	0.42
2:D:734:MET:HB3	2:D:734:MET:HE3	1.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:736:LYS:HG2	2:D:736:LYS:H	1.51	0.42
2:D:741:ILE:HG22	2:D:742:GLN:NE2	2.35	0.42
2:D:837:PHE:HE2	2:D:844:TRP:CH2	2.38	0.42
2:E:141:ILE:HA	2:E:142:LYS:HD3	2.00	0.42
2:E:148:PRO:HD3	2:F:813:GLN:CG	2.50	0.42
2:E:301:ASN:ND2	2:E:474:TYR:CD2	2.88	0.42
2:E:403:SER:HB3	2:F:250:PRO:HB3	2.01	0.42
2:E:603:LEU:HD23	2:E:607:LEU:HD12	2.01	0.42
2:E:878:PHE:CE2	2:E:889:LEU:HD11	2.55	0.42
2:F:72:ASP:O	2:F:82:VAL:HA	2.20	0.42
2:F:127:LYS:NZ	2:F:127:LYS:CB	2.73	0.42
2:F:492:ASN:HD21	2:F:497:TRP:CD1	2.35	0.42
2:F:705:PRO:O	2:F:705:PRO:HG2	2.20	0.42
2:F:728:ASN:HA	2:F:734:MET:O	2.19	0.42
2:G:33:ARG:HG2	2:G:33:ARG:NH1	2.31	0.42
2:G:142:LYS:CB	2:I:423:ALA:CA	2.80	0.42
2:G:220:THR:CG2	2:G:227:ALA:C	2.92	0.42
2:G:221:ASN:C	2:H:788:GLN:NE2	2.77	0.42
2:G:290:LEU:CB	2:G:293:GLN:HE21	2.18	0.42
2:G:355:ASP:OD1	2:G:356:ARG:N	2.52	0.42
2:G:521:MET:SD	2:H:380:HIS:NE2	2.93	0.42
2:G:718:ILE:HG13	2:G:738:TRP:NE1	2.34	0.42
2:H:96:MET:HE2	2:H:96:MET:HB2	1.91	0.42
2:H:174:ASP:HB3	2:H:175:LYS:H	1.20	0.42
2:H:250:PRO:C	2:H:252:THR:H	2.28	0.42
2:H:279:ASP:O	2:H:280:VAL:C	2.60	0.42
2:H:312:LEU:HA	2:H:312:LEU:HD12	1.82	0.42
2:H:339:ASP:OD2	2:H:915:ARG:NH1	2.51	0.42
2:H:345:SER:HB2	2:H:620:LEU:HB3	2.02	0.42
2:H:353:LEU:O	2:H:353:LEU:HG	2.19	0.42
2:H:379:ASN:O	2:H:379:ASN:CG	2.63	0.42
2:H:394:GLY:O	2:I:130:PRO:HD2	2.19	0.42
2:H:727:TYR:O	2:H:735:THR:HA	2.19	0.42
2:H:902:HIS:NE2	7:U:165:ARG:NH1	2.67	0.42
2:I:90:ASP:OD1	2:I:91:ASN:N	2.52	0.42
2:I:131:ASN:HA	2:I:132:PRO:HD2	1.80	0.42
2:I:147:ALA:HB1	2:I:200:GLY:N	2.34	0.42
2:I:647:ALA:N	2:I:917:PRO:HG3	2.28	0.42
2:I:691:PHE:CE1	2:I:880:VAL:HG12	2.54	0.42
2:I:833:THR:O	2:I:834:GLN:HG2	2.20	0.42
2:I:874:LEU:HD21	2:I:876:MET:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:172:TYR:HB2	2:J:242:VAL:CG1	2.31	0.42
2:J:377:ILE:CG2	2:J:497:TRP:O	2.67	0.42
2:J:447:TYR:CD1	2:J:452:LEU:HD11	2.52	0.42
2:J:682:ASP:OD1	2:J:682:ASP:C	2.63	0.42
2:J:762:ASP:OD1	2:J:762:ASP:C	2.63	0.42
2:J:784:TYR:O	2:J:785:LYS:CG	2.68	0.42
2:K:81:LYS:HE2	2:K:555:GLU:CG	2.50	0.42
2:K:103:ILE:HG12	2:K:586:ILE:HD11	2.01	0.42
2:K:119:THR:O	2:K:123:SER:HB2	2.20	0.42
2:K:222:GLU:C	2:K:224:GLY:N	2.77	0.42
2:K:519:ARG:C	2:K:521:MET:H	2.27	0.42
2:K:599:THR:C	2:K:602:THR:HG22	2.45	0.42
2:K:764:MET:HB3	2:K:841:ARG:NH2	2.35	0.42
2:L:118:GLY:HA2	2:L:297:PRO:CB	2.49	0.42
2:L:276:TYR:O	2:L:276:TYR:CG	2.72	0.42
2:L:335:VAL:O	2:L:335:VAL:HG23	2.19	0.42
2:L:645:TRP:CZ2	2:L:874:LEU:HB2	2.55	0.42
2:L:687:LEU:HD12	2:L:687:LEU:HA	1.92	0.42
2:L:832:LEU:O	2:L:832:LEU:HD23	2.20	0.42
3:M:322:ASP:HB3	3:M:326:ARG:N	2.35	0.42
3:M:424:ARG:HG3	3:M:424:ARG:O	2.18	0.42
5:O:53:PHE:CE2	5:O:64:ALA:HB3	2.54	0.42
5:O:58:GLN:CB	5:O:61:ARG:HH12	2.33	0.42
5:O:266:ILE:HG22	5:O:270:ARG:HH22	1.85	0.42
7:T:66:ARG:HD3	7:T:74:TRP:HH2	1.84	0.42
1:8:23:ASN:ND2	1:8:23:ASN:N	2.67	0.42
2:A:114:LYS:HE3	2:A:116:TYR:CD1	2.55	0.42
2:A:380:HIS:ND1	2:C:517:ARG:NH2	2.67	0.42
2:A:525:ASN:OD1	2:B:495:ALA:HB2	2.19	0.42
2:A:570:LEU:O	2:A:571:GLY:C	2.62	0.42
2:A:640:ILE:HG13	2:A:874:LEU:HD21	2.00	0.42
2:A:710:LEU:HA	2:A:710:LEU:HD23	1.74	0.42
2:A:782:THR:O	2:A:782:THR:CG2	2.65	0.42
2:A:810:ARG:CD	2:B:432:ALA:HB2	2.49	0.42
2:A:821:TYR:HA	2:C:216:TYR:CZ	2.54	0.42
2:B:22:GLU:OE2	7:T:183:GLN:HG3	2.19	0.42
2:B:59:ASP:OD1	2:B:59:ASP:C	2.63	0.42
2:B:103:ILE:O	2:B:532:HIS:HA	2.19	0.42
2:B:154:ILE:CD1	2:B:259:VAL:CG2	2.98	0.42
2:B:307:ASP:C	2:B:309:PHE:N	2.73	0.42
2:B:351:ASP:HB3	2:B:352:ALA:H	1.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:455:PRO:O	2:B:457:SER:N	2.43	0.42
2:B:615:SER:HA	2:B:900:ARG:HA	2.01	0.42
2:B:643:ARG:NH1	2:B:643:ARG:CG	2.76	0.42
2:C:137:ASP:O	2:C:138:ASN:HB3	2.20	0.42
2:C:270:PRO:HB2	2:C:271:ASP:OD1	2.19	0.42
2:C:315:TYR:CE1	2:C:556:TRP:HZ2	2.37	0.42
2:C:334:VAL:O	2:C:334:VAL:HG13	2.19	0.42
2:C:649:ARG:HA	2:C:859:THR:HG21	2.01	0.42
2:C:744:LEU:HD21	2:C:751:TYR:CZ	2.54	0.42
2:C:791:THR:O	2:C:794:PHE:HB2	2.20	0.42
2:D:44:LYS:NZ	2:E:95:ASP:OD2	2.52	0.42
2:D:85:THR:O	2:D:85:THR:OG1	2.31	0.42
2:D:177:TYR:OH	2:E:814:ALA:N	2.52	0.42
2:D:252:THR:O	2:D:253:PRO:C	2.61	0.42
2:D:370:TYR:CD2	2:D:508:PHE:CE1	3.04	0.42
2:D:443:ARG:HH22	2:E:386:LEU:HD13	1.85	0.42
2:D:545:LEU:HD12	2:D:614:GLN:OE1	2.20	0.42
2:D:678:VAL:O	2:D:678:VAL:HG22	2.20	0.42
2:D:746:HIS:CD2	2:D:845:ARG:HG2	2.55	0.42
2:D:751:TYR:OH	2:F:64:LEU:HD11	2.19	0.42
2:E:12:TYR:O	2:E:12:TYR:CD1	2.72	0.42
2:E:74:GLU:CD	2:E:81:LYS:H	2.22	0.42
2:E:86:LEU:HA	2:E:86:LEU:HD23	1.77	0.42
2:E:107:LEU:HD22	2:E:529:VAL:CG2	2.50	0.42
2:E:596:ALA:HB3	2:E:599:THR:HG22	2.01	0.42
2:E:608:ARG:NH1	2:E:608:ARG:HG2	2.34	0.42
2:E:617:ASN:OD1	2:E:617:ASN:O	2.38	0.42
2:E:635:SER:HB3	2:E:637:PRO:HD3	2.00	0.42
2:E:678:VAL:CG2	2:E:681:LEU:CD2	2.98	0.42
2:E:710:LEU:HD21	2:E:716:PHE:CA	2.39	0.42
2:E:718:ILE:O	2:E:718:ILE:HG22	2.20	0.42
2:F:49:THR:O	2:F:49:THR:HG23	2.20	0.42
2:F:63:ARG:CG	2:F:66:LEU:HD23	2.45	0.42
2:F:446:LEU:HD23	2:F:446:LEU:HA	1.84	0.42
2:F:588:LEU:O	2:F:589:TYR:HD1	2.02	0.42
2:F:627:TYR:CD1	6:Q:24:ARG:HA	2.54	0.42
2:F:730:ALA:C	2:F:732:CYS:N	2.78	0.42
2:F:734:MET:HE3	2:F:734:MET:HB3	1.47	0.42
2:F:890:TYR:CE1	2:F:892:LEU:CD2	3.03	0.42
2:G:130:PRO:HG3	2:G:291:LEU:CD2	2.49	0.42
2:G:142:LYS:HA	2:G:142:LYS:HD2	1.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:178:GLN:O	2:H:813:GLN:HB2	2.19	0.42
2:G:208:PRO:O	2:G:209:MET:C	2.63	0.42
2:G:400:ASP:HB3	2:G:401:THR:H	1.56	0.42
2:G:434:GLU:HG2	2:G:435:ILE:H	1.85	0.42
2:G:663:SER:N	2:G:669:ASP:OD2	2.53	0.42
2:G:754:PHE:HB2	2:I:363:TRP:HZ2	1.84	0.42
2:G:796:HIS:HB3	2:I:180:GLU:HB2	2.00	0.42
2:H:46:ARG:HH11	2:H:46:ARG:CG	2.32	0.42
2:H:155:ASN:CB	2:H:157:ASP:O	2.68	0.42
2:H:176:THR:CG2	2:H:201:ARG:HH22	2.23	0.42
2:H:181:PRO:HB2	2:H:182:GLN:H	1.29	0.42
2:H:188:TRP:CD1	2:H:394:GLY:CA	2.86	0.42
2:H:557:ASN:C	2:H:558:PHE:HD1	2.27	0.42
2:H:691:PHE:O	2:H:718:ILE:HG13	2.19	0.42
2:H:718:ILE:HG22	2:H:738:TRP:CE2	2.55	0.42
2:I:173:ALA:HB1	2:I:221:ASN:HD22	1.75	0.42
2:I:315:TYR:HB2	2:I:343:GLU:OE2	2.20	0.42
2:I:345:SER:OG	2:I:618:ASP:OD1	2.33	0.42
2:I:752:GLN:HA	2:I:752:GLN:OE1	2.20	0.42
2:J:57:THR:HA	2:J:594:PRO:O	2.20	0.42
2:J:742:GLN:OE1	2:J:742:GLN:CA	2.68	0.42
2:K:10:TRP:HZ3	2:L:858:LEU:HD21	1.85	0.42
2:K:10:TRP:CA	2:K:15:ILE:HG22	2.42	0.42
2:K:86:LEU:HD11	2:K:547:LEU:CD2	2.49	0.42
2:K:370:TYR:CD2	2:K:508:PHE:CE1	3.07	0.42
2:K:387:PRO:HG2	2:K:389:TYR:OH	2.20	0.42
2:K:649:ARG:HA	2:K:859:THR:HG23	2.00	0.42
2:K:897:ASP:OD1	2:K:897:ASP:C	2.63	0.42
2:L:109:ARG:NH1	2:L:113:PHE:HE2	2.18	0.42
2:L:272:THR:HA	2:L:296:ALA:O	2.20	0.42
2:L:302:TYR:O	2:L:568:SER:HA	2.20	0.42
2:L:307:ASP:CG	2:L:356:ARG:HH22	2.27	0.42
2:L:350:LEU:O	2:L:356:ARG:HB2	2.19	0.42
2:L:506:ASN:HB3	2:L:509:ASN:ND2	2.35	0.42
2:L:516:LEU:HA	2:L:516:LEU:HD12	1.60	0.42
2:L:758:GLU:OE2	2:L:760:TYR:CZ	2.72	0.42
3:M:347:TYR:HE2	3:M:360:THR:O	2.03	0.42
3:M:434:ASN:OD1	3:M:444:ARG:HB2	2.20	0.42
5:O:42:ILE:HG22	5:O:53:PHE:CZ	2.54	0.42
5:O:107:LEU:HA	5:O:107:LEU:HD12	1.81	0.42
5:O:120:ALA:O	5:O:121:ASN:C	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:13:HIS:C	1:1:15:SER:N	2.78	0.42
2:A:13:MET:HE1	2:B:900:ARG:HB2	2.02	0.42
2:A:26:PRO:HG2	5:O:22:LEU:HD12	2.02	0.42
2:A:375:ARG:HE	2:A:507:PRO:CB	2.31	0.42
2:A:526:GLY:HA2	2:B:823:LEU:HD21	2.01	0.42
2:A:662:PRO:HB3	2:A:672:PHE:CE2	2.55	0.42
2:A:690:THR:HG22	2:A:690:THR:O	2.19	0.42
2:A:710:LEU:HB3	2:A:711:LEU:H	1.63	0.42
2:A:784:TYR:OH	2:C:218:LYS:NZ	2.53	0.42
2:A:806:GLY:HA3	2:A:807:PRO:HD3	1.91	0.42
2:B:13:MET:HG3	2:C:914:LEU:HD12	2.02	0.42
2:B:90:ASP:OD1	2:B:90:ASP:C	2.61	0.42
2:B:204:LYS:HG3	2:B:204:LYS:O	2.20	0.42
2:B:245:GLN:HB2	2:B:260:LEU:HB2	2.01	0.42
2:B:346:TYR:CG	2:B:538:LYS:HG2	2.55	0.42
2:B:623:ALA:O	2:B:625:MET:CE	2.68	0.42
2:B:717:GLU:OE1	2:B:717:GLU:HA	2.19	0.42
2:C:222:GLU:O	2:C:222:GLU:CG	2.67	0.42
2:C:737:ASP:O	2:C:741:ILE:CD1	2.68	0.42
2:C:883:MET:HG2	2:C:884:ASP:O	2.20	0.42
2:D:116:TYR:HB2	2:E:493:ILE:CG2	2.50	0.42
2:D:411:THR:HB	2:D:412:TRP:H	1.24	0.42
2:D:483:VAL:HG13	2:D:483:VAL:O	2.19	0.42
2:D:913:TYR:O	2:D:914:LEU:HB2	2.20	0.42
2:E:90:ASP:OD1	2:J:328:ALA:O	2.38	0.42
2:E:109:ARG:NH2	2:E:523:LEU:CB	2.80	0.42
2:E:131:ASN:OD1	2:E:212:CYS:CA	2.68	0.42
2:E:165:ASP:HB3	2:E:166:THR:H	1.64	0.42
2:E:314:TYR:CE1	2:E:559:ARG:NE	2.83	0.42
2:E:315:TYR:HB3	2:E:342:THR:CG2	2.49	0.42
2:E:643:ARG:HH21	2:E:919:SER:N	2.18	0.42
2:E:687:LEU:HD12	2:E:687:LEU:HA	1.79	0.42
2:E:734:MET:CE	2:E:837:PHE:CZ	3.02	0.42
2:E:743:MET:HE2	2:E:743:MET:HB3	1.95	0.42
2:F:129:ALA:HA	2:F:130:PRO:HD2	1.66	0.42
2:F:180:GLU:HG3	2:F:181:PRO:HD2	1.86	0.42
2:F:340:ARG:HB2	2:F:915:ARG:NH1	2.34	0.42
2:F:630:PRO:HG2	2:F:633:ALA:HB2	2.01	0.42
2:F:733:ASN:O	2:F:733:ASN:CG	2.57	0.42
2:F:793:PRO:HD2	2:F:794:PHE:H	1.85	0.42
2:F:825:GLY:O	2:F:826:GLN:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:914:LEU:HD23	2:F:915:ARG:H	1.80	0.42
2:G:179:PRO:HA	2:H:799:SER:OG	2.20	0.42
2:G:219:PRO:HG2	2:H:821:TYR:OH	2.19	0.42
2:G:255:GLU:CB	2:G:256:PRO:HD3	2.46	0.42
2:G:267:ILE:HD12	2:G:268:GLU:H	1.84	0.42
2:G:660:GLU:HB2	2:G:674:TYR:CZ	2.54	0.42
2:G:715:GLU:OE1	2:G:715:GLU:HA	2.20	0.42
2:H:94:LEU:HD21	2:H:96:MET:HA	2.01	0.42
2:H:460:ILE:C	2:H:480:ARG:HE	2.27	0.42
2:H:732:CYS:SG	2:H:734:MET:CB	3.08	0.42
2:H:922:ASN:HD22	2:J:872:HIS:CE1	2.38	0.42
2:I:73:ARG:HD2	2:I:80:TYR:CZ	2.55	0.42
2:I:400:ASP:O	2:I:425:ILE:O	2.38	0.42
2:I:800:GLY:HA2	2:I:812:GLY:CA	2.49	0.42
2:I:899:VAL:HG22	2:I:900:ARG:N	2.35	0.42
2:J:175:LYS:HG3	2:J:176:THR:CB	2.50	0.42
2:J:335:VAL:O	2:J:335:VAL:HG13	2.20	0.42
2:J:360:PHE:O	2:J:518:TYR:OH	2.34	0.42
2:J:430:ILE:H	2:L:810:ARG:NH1	2.17	0.42
2:J:534:GLN:HE22	2:K:730:ALA:N	2.18	0.42
2:J:699:ASP:C	2:J:701:SER:N	2.78	0.42
2:J:717:GLU:O	2:J:735:THR:HB	2.20	0.42
2:J:805:MET:HE2	2:J:805:MET:N	2.34	0.42
2:J:810:ARG:CZ	2:K:432:ALA:HB2	2.50	0.42
2:K:349:MET:SD	2:K:543:LYS:HE3	2.60	0.42
2:K:402:TYR:HA	2:L:248:ALA:O	2.20	0.42
2:K:596:ALA:HB3	2:K:599:THR:CG2	2.43	0.42
2:K:784:TYR:HE2	2:K:829:VAL:HG22	1.85	0.42
2:L:9:GLN:CB	4:N:175:LEU:HD13	2.50	0.42
2:L:144:ARG:NH2	2:L:144:ARG:HA	2.35	0.42
2:L:175:LYS:HB2	2:L:175:LYS:HE2	1.51	0.42
2:L:252:THR:HG1	2:L:255:GLU:CD	2.25	0.42
2:L:287:SER:OG	2:L:288:ALA:N	2.53	0.42
2:L:308:ASN:O	2:L:309:PHE:HB2	2.19	0.42
2:L:798:ASN:HB3	2:L:801:PHE:HB2	2.01	0.42
3:M:111:PHE:HB3	3:M:117:TRP:CE2	2.55	0.42
5:O:167:GLU:HA	5:O:167:GLU:OE1	2.19	0.42
5:O:219:MET:C	5:O:221:GLY:N	2.78	0.42
6:S:8:ASN:O	6:S:8:ASN:OD1	2.36	0.42
6:S:23:THR:O	6:S:23:THR:HG22	2.17	0.42
7:U:66:ARG:NH1	7:U:66:ARG:CG	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:W:8:UNK:O	9:W:9:UNK:CB	2.68	0.42
2:A:446:LEU:HD23	2:A:446:LEU:HA	1.85	0.42
2:A:559:ARG:NH1	2:A:564:MET:HE3	2.35	0.42
2:A:771:PHE:C	2:A:771:PHE:CD1	2.98	0.42
2:A:774:MET:C	2:A:775:SER:HG	2.26	0.42
2:A:787:TYR:CD1	2:A:787:TYR:O	2.72	0.42
2:B:122:ASN:HB3	2:B:125:ALA:CB	2.48	0.42
2:B:131:ASN:ND2	2:B:212:CYS:CB	2.83	0.42
2:B:144:ARG:NH2	2:B:144:ARG:CB	2.79	0.42
2:B:299:ARG:HH22	2:B:477:MET:CE	2.31	0.42
2:B:367:VAL:HG12	2:B:368:ASP:N	2.34	0.42
2:B:500:ASP:O	2:B:503:ASP:OD1	2.37	0.42
2:B:522:LEU:HA	2:B:522:LEU:HD12	1.75	0.42
2:C:497:TRP:CD2	2:C:776:ARG:CG	3.03	0.42
2:C:574:LEU:C	2:C:576:VAL:H	2.28	0.42
2:C:732:CYS:SG	2:C:773:PRO:HA	2.60	0.42
2:D:121:TYR:HD2	2:D:216:TYR:H	1.68	0.42
2:D:392:PRO:HG2	2:D:395:GLY:HA2	2.01	0.42
2:D:430:ILE:HD13	2:F:801:PHE:CE1	2.55	0.42
2:D:464:ASN:O	2:D:465:ILE:HD13	2.20	0.42
2:D:731:GLN:HB2	2:F:522:LEU:CD2	2.48	0.42
2:D:732:CYS:O	2:D:733:ASN:C	2.61	0.42
2:D:745:SER:HB2	2:D:847:PRO:CD	2.50	0.42
2:D:916:THR:OG1	2:D:917:PRO:CD	2.67	0.42
2:E:117:SER:OG	2:E:511:HIS:CE1	2.73	0.42
2:E:272:THR:N	2:E:298:ASN:HD21	2.17	0.42
2:E:298:ASN:CB	2:E:474:TYR:OH	2.68	0.42
2:E:645:TRP:CD1	2:E:645:TRP:H	2.38	0.42
2:E:764:MET:CG	2:E:841:ARG:HH11	2.33	0.42
2:F:84:PHE:HD2	2:F:588:LEU:HB2	1.85	0.42
2:F:249:LEU:O	2:F:251:SER:N	2.42	0.42
2:F:274:LEU:HD22	2:F:293:GLN:HG2	2.02	0.42
2:F:386:LEU:CB	2:F:387:PRO:HD3	2.33	0.42
2:F:427:SER:OG	2:F:428:GLY:N	2.52	0.42
2:F:629:ILE:HG23	2:F:629:ILE:O	2.20	0.42
2:F:646:ALA:O	2:F:647:ALA:C	2.63	0.42
2:F:671:TYR:CD1	6:Q:37:GLY:HA3	2.55	0.42
2:F:739:PHE:CE2	2:F:743:MET:SD	3.12	0.42
2:G:141:ILE:HB	2:G:142:LYS:H	1.28	0.42
2:G:447:TYR:OH	2:G:481:VAL:HG23	2.19	0.42
2:G:617:ASN:HD22	2:I:46:ARG:CZ	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:678:VAL:O	2:G:678:VAL:HG23	2.20	0.42
2:G:813:GLN:NE2	2:I:148:PRO:CD	2.77	0.42
2:H:201:ARG:HB3	2:I:815:TYR:CE1	2.55	0.42
2:H:222:GLU:C	2:H:224:GLY:N	2.77	0.42
2:H:223:LYS:HZ2	2:H:223:LYS:CB	2.23	0.42
2:H:649:ARG:HD2	2:H:896:PHE:CD1	2.48	0.42
2:H:832:LEU:HD12	2:H:832:LEU:C	2.45	0.42
2:I:14:HIS:NE2	2:I:23:TYR:CE1	2.86	0.42
2:I:156:LYS:NZ	2:I:256:PRO:HG3	2.35	0.42
2:I:330:GLN:N	2:I:330:GLN:OE1	2.52	0.42
2:I:362:MET:HE1	2:I:363:TRP:CZ3	2.55	0.42
2:I:607:LEU:HD23	2:I:607:LEU:C	2.45	0.42
2:J:372:PRO:O	2:J:376:ILE:HB	2.20	0.42
2:J:429:ASN:CG	2:L:811:GLU:HG3	2.45	0.42
2:J:436:ASN:N	2:J:440:ASN:HD21	2.18	0.42
2:J:447:TYR:CZ	2:J:807:PRO:HG3	2.55	0.42
2:J:627:TYR:HE1	6:R:24:ARG:HD2	1.85	0.42
2:J:654:THR:OG1	2:J:688:ASN:OD1	2.23	0.42
2:K:62:GLN:OE1	2:K:92:ARG:NE	2.53	0.42
2:K:134:GLU:HB2	2:K:205:ASP:HA	2.01	0.42
2:K:216:TYR:OH	2:K:226:GLN:HG2	2.19	0.42
2:K:245:GLN:NE2	2:K:247:PHE:CE2	2.88	0.42
2:K:251:SER:OG	2:K:253:PRO:HG2	2.20	0.42
2:K:547:LEU:HD13	2:K:909:ILE:HD11	2.02	0.42
2:L:135:TRP:CD2	2:L:288:ALA:HB2	2.55	0.42
2:L:214:GLY:O	2:L:215:SER:C	2.62	0.42
2:L:355:ASP:OD1	2:L:355:ASP:C	2.63	0.42
2:L:388:ASN:HD22	2:L:437:LEU:H	1.68	0.42
2:L:429:ASN:OD1	2:L:429:ASN:C	2.63	0.42
3:M:111:PHE:CE2	3:M:468:LEU:HD11	2.55	0.42
4:N:181:GLN:O	4:N:182:LYS:CB	2.67	0.42
5:O:39:MET:HA	5:O:42:ILE:CG1	2.50	0.42
5:O:62:PHE:O	5:O:66:LEU:HD13	2.20	0.42
5:O:178:LEU:HD21	5:O:182:GLU:OE1	2.19	0.42
1:0:24:GLY:O	1:0:25:SER:OG	2.33	0.41
2:A:94:LEU:HD23	2:A:94:LEU:C	2.45	0.41
2:A:113:PHE:O	2:A:114:LYS:C	2.63	0.41
2:A:303:ILE:HG12	2:A:568:SER:HB2	2.01	0.41
2:A:517:ARG:NH1	2:B:380:HIS:CG	2.86	0.41
2:A:656:LEU:HD23	2:A:656:LEU:N	2.35	0.41
2:A:708:ASP:O	2:A:708:ASP:OD1	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:866:LEU:HD12	2:C:10:TRP:CH2	2.55	0.41
2:B:225:GLY:C	2:B:226:GLN:HG2	2.44	0.41
2:B:277:LYS:HB2	2:B:465:ILE:HD11	2.02	0.41
2:B:360:PHE:HB3	2:C:756:VAL:HG22	2.02	0.41
2:B:382:VAL:HB	2:B:438:ALA:O	2.19	0.41
2:B:490:TYR:O	2:B:490:TYR:HD1	2.03	0.41
2:B:741:ILE:HD11	2:B:852:PHE:CE2	2.55	0.41
2:C:191:GLU:HG2	2:C:192:VAL:H	1.85	0.41
2:C:287:SER:OG	2:C:288:ALA:N	2.53	0.41
2:C:355:ASP:C	2:C:357:SER:N	2.77	0.41
2:C:640:ILE:HD12	2:C:640:ILE:N	2.35	0.41
2:C:792:LEU:N	2:C:793:PRO:HD2	2.35	0.41
2:D:154:ILE:CG1	2:D:197:LYS:HB3	2.48	0.41
2:D:185:GLN:HG2	2:D:188:TRP:HB2	2.01	0.41
2:D:229:LEU:N	2:D:229:LEU:HD23	2.35	0.41
2:D:349:MET:HB2	2:D:619:TYR:CD2	2.54	0.41
2:D:371:ASP:HB3	2:D:374:VAL:CG1	2.50	0.41
2:D:388:ASN:HD22	2:D:437:LEU:H	1.68	0.41
2:D:400:ASP:HA	2:D:424:GLU:HB2	2.02	0.41
2:D:406:LYS:HA	2:D:411:THR:N	2.34	0.41
2:D:711:LEU:HD12	2:D:711:LEU:H	1.85	0.41
2:E:41:LEU:CD2	2:F:546:LEU:HD22	2.50	0.41
2:E:84:PHE:HD2	2:E:588:LEU:HB2	1.73	0.41
2:E:110:GLY:C	2:E:112:SER:H	2.25	0.41
2:E:335:VAL:HG11	7:T:108:LEU:HG	2.01	0.41
2:E:487:LEU:HD23	2:E:487:LEU:HA	1.86	0.41
2:E:559:ARG:HG2	2:E:561:ASP:H	1.85	0.41
2:E:657:LYS:HD2	2:E:686:TYR:OH	2.19	0.41
2:E:739:PHE:C	2:E:741:ILE:H	2.28	0.41
2:E:807:PRO:O	2:E:807:PRO:HG2	2.19	0.41
2:F:178:GLN:O	2:F:179:PRO:C	2.63	0.41
2:F:210:LEU:O	2:F:211:PRO:C	2.63	0.41
2:F:295:ALA:O	2:F:296:ALA:HB2	2.19	0.41
2:F:506:ASN:HB3	2:F:686:TYR:CD1	2.55	0.41
2:F:539:PHE:HD1	2:F:541:ALA:H	1.67	0.41
2:F:644:ASN:OD1	2:F:644:ASN:N	2.41	0.41
2:F:718:ILE:HD11	2:F:844:TRP:CE2	2.55	0.41
2:G:25:SER:O	2:G:28:LEU:N	2.49	0.41
2:G:222:GLU:OE1	2:G:222:GLU:O	2.38	0.41
2:G:269:ALA:H	2:G:270:PRO:CD	2.32	0.41
2:G:300:PRO:HG2	2:G:300:PRO:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:303:ILE:CG2	2:G:304:GLY:H	2.20	0.41
2:G:317:SER:O	2:G:319:GLY:N	2.53	0.41
2:G:402:TYR:HB3	2:H:248:ALA:O	2.20	0.41
2:G:546:LEU:HD12	2:G:546:LEU:HA	1.91	0.41
2:G:546:LEU:HB2	2:G:614:GLN:OE1	2.19	0.41
2:G:576:VAL:HG13	2:G:577:ASP:N	2.35	0.41
2:G:708:ASP:OD1	2:G:708:ASP:C	2.63	0.41
2:G:718:ILE:HG23	2:G:738:TRP:CD1	2.52	0.41
2:H:67:ARG:HG2	2:H:67:ARG:NH1	2.35	0.41
2:H:125:ALA:CB	2:H:126:PRO:CD	2.65	0.41
2:H:382:VAL:HG21	2:H:439:ALA:HB2	2.02	0.41
2:H:389:TYR:CZ	2:I:393:LEU:HD21	2.53	0.41
2:H:791:THR:HB	2:H:793:PRO:HD3	2.02	0.41
2:I:131:ASN:O	2:I:131:ASN:OD1	2.38	0.41
2:I:149:PHE:CE2	2:I:160:ILE:HG21	2.54	0.41
2:I:302:TYR:O	2:I:568:SER:HA	2.20	0.41
2:I:315:TYR:CE2	2:I:538:LYS:HG3	2.54	0.41
2:J:92:ARG:HD2	2:J:592:PHE:CD2	2.55	0.41
2:J:94:LEU:HD23	2:J:95:ASP:N	2.35	0.41
2:J:458:TYR:CE2	2:J:501:PRO:HB2	2.55	0.41
2:J:513:ASN:OD1	2:J:513:ASN:C	2.63	0.41
2:J:728:ASN:OD1	2:J:728:ASN:C	2.62	0.41
2:J:881:ASP:OD1	2:J:881:ASP:N	2.40	0.41
2:J:904:PRO:HG3	2:J:910:GLU:OE1	2.20	0.41
2:K:136:LYS:C	2:K:139:ASN:O	2.63	0.41
2:K:254:ASN:N	2:K:254:ASN:OD1	2.53	0.41
2:K:648:PHE:CD1	2:K:649:ARG:N	2.88	0.41
2:K:694:VAL:HG13	2:K:694:VAL:O	2.20	0.41
2:K:704:TRP:HE1	2:K:861:LEU:HD23	1.85	0.41
2:K:796:HIS:CB	2:K:818:ASN:OD1	2.63	0.41
2:K:892:LEU:O	2:K:893:PHE:C	2.63	0.41
2:L:39:PHE:CD2	2:L:39:PHE:O	2.73	0.41
2:L:109:ARG:NH1	2:L:113:PHE:CE2	2.88	0.41
2:L:114:LYS:O	2:L:116:TYR:N	2.45	0.41
2:L:177:TYR:C	2:L:177:TYR:CD1	2.86	0.41
2:L:710:LEU:O	2:L:712:THR:N	2.53	0.41
5:O:283:PHE:HE2	7:T:62:THR:HA	1.84	0.41
7:T:185:ARG:HG2	7:T:185:ARG:HH11	1.84	0.41
2:A:33:ARG:HH11	2:A:33:ARG:HG3	1.83	0.41
2:A:57:THR:O	2:A:596:ALA:CA	2.68	0.41
2:A:335:VAL:N	2:A:913:TYR:HE2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:375:ARG:HH11	2:A:375:ARG:HG2	1.84	0.41
2:A:621:CYS:SG	2:A:897:ASP:HB3	2.61	0.41
2:A:642:SER:HA	2:A:873:ALA:HB2	2.01	0.41
2:B:897:ASP:CG	2:B:897:ASP:O	2.63	0.41
2:B:914:LEU:O	2:B:915:ARG:HG3	2.20	0.41
2:C:608:ARG:CZ	2:C:906:ARG:HA	2.51	0.41
2:D:122:ASN:O	2:D:213:TYR:HA	2.20	0.41
2:D:214:GLY:O	2:D:215:SER:OG	2.33	0.41
2:D:279:ASP:O	2:D:279:ASP:CG	2.59	0.41
2:D:549:PRO:HG2	2:D:604:GLU:HG3	2.01	0.41
2:D:727:TYR:O	2:D:728:ASN:HB3	2.21	0.41
2:D:804:TYR:CE1	2:D:805:MET:HE2	2.56	0.41
2:D:889:LEU:C	2:D:889:LEU:HD12	2.44	0.41
2:E:88:VAL:HG13	2:E:88:VAL:O	2.19	0.41
2:E:96:MET:CE	2:E:554:TYR:CE1	3.03	0.41
2:E:144:ARG:NE	2:E:144:ARG:N	2.68	0.41
2:E:541:ALA:C	2:E:542:ILE:HD12	2.46	0.41
2:E:729:VAL:HB	2:E:736:LYS:HG2	2.02	0.41
2:E:877:THR:O	2:E:877:THR:CG2	2.67	0.41
2:F:58:THR:HA	2:F:596:ALA:HA	2.02	0.41
2:F:506:ASN:HA	2:F:686:TYR:CD2	2.55	0.41
2:F:575:ARG:HB3	6:Q:39:ASN:O	2.21	0.41
2:F:655:ARG:HH12	2:F:883:MET:HE2	1.85	0.41
2:F:769:ARG:HB2	2:F:769:ARG:CZ	2.50	0.41
2:G:15:ILE:CG1	2:H:896:PHE:HD2	2.32	0.41
2:G:43:ASN:OD1	2:G:44:LYS:HD2	2.19	0.41
2:G:142:LYS:CB	2:I:423:ALA:CB	2.97	0.41
2:G:487:LEU:HD11	2:G:499:PRO:HG3	2.02	0.41
2:G:529:VAL:O	2:G:529:VAL:CG2	2.65	0.41
2:G:591:ASN:CG	2:H:740:LEU:HD11	2.44	0.41
2:G:696:ILE:O	2:G:697:MET:HG2	2.20	0.41
2:G:725:GLU:N	2:G:726:GLY:CA	2.78	0.41
2:H:14:HIS:CD2	2:H:23:TYR:CZ	3.08	0.41
2:H:293:GLN:HE21	2:H:293:GLN:HB2	1.74	0.41
2:H:622:ALA:CB	2:H:894:GLU:HA	2.50	0.41
2:H:734:MET:CE	2:H:771:PHE:HE2	2.33	0.41
2:I:71:VAL:CG2	2:I:85:THR:HG23	2.49	0.41
2:I:204:LYS:CG	2:I:205:ASP:H	2.25	0.41
2:I:275:VAL:HG22	2:I:294:GLN:O	2.21	0.41
2:I:478:ASN:OD1	2:I:478:ASN:C	2.63	0.41
2:I:655:ARG:HH12	2:I:883:MET:CG	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:28:LEU:CB	2:K:606:MET:HE2	2.49	0.41
2:J:135:TRP:CE2	2:J:141:ILE:HG21	2.55	0.41
2:J:173:ALA:HB1	2:J:222:GLU:HB3	2.01	0.41
2:J:312:LEU:HD13	2:J:565:ILE:HG23	2.03	0.41
2:J:512:ARG:CA	2:J:517:ARG:HH11	2.32	0.41
2:J:638:ILE:HG12	2:J:876:MET:HB2	2.02	0.41
2:J:700:SER:O	2:J:700:SER:OG	2.36	0.41
2:K:120:ALA:HB2	2:L:493:ILE:HG12	2.02	0.41
2:K:299:ARG:HB3	2:K:299:ARG:HE	1.42	0.41
2:K:383:GLU:O	2:K:383:GLU:CG	2.67	0.41
2:K:405:ILE:HD12	2:L:247:PHE:HA	2.02	0.41
2:K:488:ASP:O	2:K:491:VAL:HG12	2.20	0.41
2:L:96:MET:SD	2:L:547:LEU:HD12	2.60	0.41
2:L:377:ILE:CG2	2:L:450:VAL:HG11	2.50	0.41
2:L:446:LEU:HD22	2:L:450:VAL:CG1	2.50	0.41
2:L:454:LEU:CG	2:L:502:MET:HE1	2.16	0.41
2:L:661:THR:H	2:L:678:VAL:HG13	1.85	0.41
2:L:796:HIS:CE1	2:L:818:ASN:HD22	2.39	0.41
2:L:851:ASN:OD1	2:L:851:ASN:C	2.63	0.41
3:M:81:ASN:OD1	3:M:90:GLN:N	2.51	0.41
3:M:356:VAL:CG1	3:M:356:VAL:O	2.68	0.41
5:O:102:ILE:CG2	5:O:103:TYR:N	2.82	0.41
5:O:186:SER:O	5:O:187:GLU:C	2.63	0.41
5:O:191:SER:O	5:O:193:PRO:N	2.53	0.41
5:O:208:ASN:HD22	5:O:243:LEU:HB2	1.85	0.41
5:O:268:LEU:HD12	5:O:268:LEU:N	2.35	0.41
5:O:283:PHE:HD2	7:T:61:LEU:O	2.02	0.41
6:P:14:GLY:HA3	6:Q:33:GLN:OE1	2.20	0.41
1:4:17:PRO:O	1:4:17:PRO:HD2	2.20	0.41
2:A:110:GLY:HA2	2:A:578:GLY:O	2.20	0.41
2:A:533:ILE:CG2	2:A:535:VAL:HG13	2.50	0.41
2:A:559:ARG:HA	2:A:559:ARG:HD3	1.81	0.41
2:A:901:ILE:HD12	2:A:901:ILE:N	2.35	0.41
2:B:204:LYS:HG2	2:B:264:ASN:OD1	2.20	0.41
2:B:302:TYR:CD1	2:B:302:TYR:N	2.86	0.41
2:B:372:PRO:O	2:B:374:VAL:N	2.53	0.41
2:B:643:ARG:HB2	2:B:644:ASN:O	2.20	0.41
2:B:698:PHE:O	2:B:699:ASP:C	2.63	0.41
2:B:892:LEU:HD23	2:B:892:LEU:N	2.35	0.41
2:B:900:ARG:O	2:B:900:ARG:HG2	2.21	0.41
2:C:202:VAL:HG23	2:C:260:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:302:TYR:O	2:C:520:SER:HB2	2.19	0.41
2:C:447:TYR:HA	2:C:451:ALA:HB3	2.03	0.41
2:C:471:LYS:CD	2:C:476:TYR:HE2	2.34	0.41
2:C:724:GLY:C	2:C:726:GLY:H	2.28	0.41
2:C:802:VAL:CG1	2:C:803:GLY:H	2.33	0.41
2:C:813:GLN:O	2:C:814:ALA:HB3	2.19	0.41
2:C:914:LEU:HD23	2:C:915:ARG:C	2.45	0.41
2:D:33:ARG:HA	2:D:33:ARG:HD3	1.89	0.41
2:D:64:LEU:HD23	2:D:64:LEU:N	2.35	0.41
2:D:174:ASP:HB3	2:D:221:ASN:ND2	2.36	0.41
2:D:188:TRP:HB3	2:D:189:ASN:H	1.71	0.41
2:D:206:THR:OG1	2:D:264:ASN:HB3	2.20	0.41
2:D:222:GLU:C	2:D:224:GLY:N	2.75	0.41
2:D:377:ILE:HD11	2:D:446:LEU:CD1	2.50	0.41
2:E:69:VAL:CG1	2:E:70:PRO:HD2	2.50	0.41
2:E:126:PRO:C	2:E:128:THR:N	2.79	0.41
2:E:384:ASP:C	2:E:385:GLU:OE2	2.63	0.41
2:E:542:ILE:HD12	2:E:542:ILE:N	2.35	0.41
2:E:732:CYS:SG	2:E:771:PHE:CZ	3.10	0.41
2:E:838:LEU:HA	2:E:838:LEU:HD23	1.81	0.41
2:F:321:MET:CE	2:F:332:ASN:HD22	2.32	0.41
2:F:548:LEU:O	2:F:549:PRO:C	2.62	0.41
2:F:662:PRO:HA	2:F:672:PHE:HD2	1.84	0.41
2:F:816:PRO:O	2:F:817:ALA:HB2	2.21	0.41
2:G:180:GLU:O	2:G:180:GLU:OE2	2.38	0.41
2:G:315:TYR:HE2	2:G:538:LYS:HE2	1.85	0.41
2:G:530:PRO:HD2	2:H:833:THR:HG23	2.02	0.41
2:G:530:PRO:HD2	2:H:833:THR:CG2	2.50	0.41
2:G:718:ILE:HG23	2:G:738:TRP:CB	2.46	0.41
2:G:753:GLY:HA2	2:I:98:SER:HA	2.01	0.41
2:H:157:ASP:OD1	2:H:158:ASN:N	2.53	0.41
2:H:178:GLN:N	2:H:178:GLN:CD	2.69	0.41
2:H:198:VAL:O	2:H:199:ALA:HB2	2.20	0.41
2:H:216:TYR:CG	2:H:217:ALA:N	2.88	0.41
2:H:367:VAL:HG11	2:H:764:MET:CE	2.48	0.41
2:H:412:TRP:CD1	2:I:141:ILE:CB	3.02	0.41
2:H:443:ARG:HE	2:I:386:LEU:HD11	1.83	0.41
2:H:693:LYS:H	2:H:879:GLU:HB2	1.84	0.41
2:H:739:PHE:O	2:H:739:PHE:CD1	2.73	0.41
2:H:742:GLN:C	2:H:744:LEU:N	2.78	0.41
2:H:920:ALA:O	2:J:702:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:303:ILE:HG12	2:I:568:SER:HB3	2.01	0.41
2:I:405:ILE:HG12	2:I:412:TRP:CD2	2.55	0.41
2:I:623:ALA:HB3	2:I:893:PHE:O	2.21	0.41
2:I:727:TYR:C	2:I:736:LYS:HG3	2.45	0.41
2:I:840:ASP:HB2	2:I:841:ARG:H	1.37	0.41
2:J:134:GLU:C	2:J:134:GLU:OE2	2.63	0.41
2:J:348:LEU:HD12	2:J:620:LEU:HD12	2.02	0.41
2:J:376:ILE:HG21	2:J:496:ARG:NH2	2.35	0.41
2:J:409:GLY:H	2:J:411:THR:HG22	1.85	0.41
2:J:598:ASN:OD1	2:J:598:ASN:C	2.62	0.41
2:J:800:GLY:C	2:J:801:PHE:HD1	2.27	0.41
2:J:804:TYR:HD2	2:L:182:GLN:HB3	1.85	0.41
2:J:893:PHE:HB3	2:J:918:PHE:CE2	2.55	0.41
2:K:46:ARG:NH1	2:L:617:ASN:ND2	2.68	0.41
2:K:57:THR:HG21	2:L:860:ASP:OD2	2.20	0.41
2:K:135:TRP:CB	2:K:141:ILE:CB	2.99	0.41
2:K:209:MET:HB2	2:K:209:MET:HE3	1.48	0.41
2:K:322:GLY:O	2:K:323:VAL:HG13	2.20	0.41
2:K:562:VAL:HG13	2:K:563:ASN:N	2.35	0.41
2:K:602:THR:HG23	2:K:603:LEU:N	2.34	0.41
2:L:132:PRO:O	2:L:203:LEU:HB2	2.21	0.41
2:L:339:ASP:OD1	2:L:339:ASP:O	2.37	0.41
2:L:516:LEU:O	2:L:517:ARG:C	2.63	0.41
2:L:621:CYS:O	2:L:649:ARG:NH1	2.52	0.41
2:L:623:ALA:O	2:L:624:ASN:OD1	2.38	0.41
2:L:771:PHE:HA	2:L:838:LEU:O	2.21	0.41
2:L:826:GLN:CD	2:L:826:GLN:N	2.77	0.41
2:L:889:LEU:O	2:L:889:LEU:HG	2.19	0.41
3:M:50:ARG:O	3:M:50:ARG:HG3	2.21	0.41
3:M:145:LEU:HB3	3:M:162:PHE:CE1	2.44	0.41
3:M:166:LEU:N	3:M:166:LEU:HD23	2.35	0.41
3:M:174:THR:OG1	3:M:175:MET:N	2.52	0.41
3:M:182:ASN:O	3:M:186:ASP:HB2	2.19	0.41
3:M:233:HIS:NE2	3:M:363:THR:O	2.37	0.41
5:O:151:LEU:HD12	5:O:151:LEU:HA	1.82	0.41
2:A:90:ASP:C	2:A:92:ARG:H	2.29	0.41
2:A:93:VAL:HG11	2:A:546:LEU:HD11	2.01	0.41
2:A:313:MET:HB2	2:A:315:TYR:CE1	2.56	0.41
2:A:380:HIS:HD1	2:C:517:ARG:CZ	2.32	0.41
2:A:621:CYS:SG	2:A:897:ASP:N	2.94	0.41
2:A:741:ILE:CD1	2:A:852:PHE:CD2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:839:CYS:SG	2:A:842:THR:OG1	2.60	0.41
2:A:857:ALA:N	2:C:49:THR:HG23	2.35	0.41
2:B:81:LYS:HZ1	2:B:555:GLU:CD	2.24	0.41
2:B:126:PRO:C	2:B:128:THR:H	2.28	0.41
2:B:135:TRP:O	2:B:142:LYS:HB2	2.20	0.41
2:B:360:PHE:CD1	2:C:768:PHE:CZ	3.08	0.41
2:B:542:ILE:O	2:B:543:LYS:C	2.63	0.41
2:B:780:ASN:OD1	2:B:780:ASN:C	2.63	0.41
2:B:917:PRO:O	2:B:918:PHE:CG	2.74	0.41
2:B:920:ALA:O	2:B:921:GLY:C	2.62	0.41
2:C:521:MET:HE2	2:C:521:MET:HB2	1.76	0.41
2:C:588:LEU:HD12	2:C:588:LEU:HA	1.77	0.41
2:C:593:PHE:O	2:C:593:PHE:HD1	2.03	0.41
2:C:738:TRP:HE3	2:C:741:ILE:HD12	1.86	0.41
2:D:69:VAL:HG12	2:D:70:PRO:CD	2.50	0.41
2:D:104:ARG:O	2:D:104:ARG:HG2	2.16	0.41
2:D:315:TYR:CD2	2:D:342:THR:HG23	2.55	0.41
2:D:717:GLU:O	2:D:738:TRP:HB2	2.21	0.41
2:D:784:TYR:HB3	2:D:787:TYR:HB2	2.02	0.41
2:E:45:PHE:CD1	2:E:45:PHE:N	2.87	0.41
2:E:74:GLU:OE1	2:E:81:LYS:CB	2.69	0.41
2:E:121:TYR:OH	2:F:822:PRO:CB	2.68	0.41
2:E:122:ASN:OD1	2:F:798:ASN:HA	2.21	0.41
2:E:323:VAL:HG12	2:E:555:GLU:HB2	2.01	0.41
2:E:335:VAL:H	2:E:913:TYR:HE2	1.66	0.41
2:E:335:VAL:CG2	7:T:110:GLY:CA	2.98	0.41
2:E:356:ARG:CB	2:E:367:VAL:HG11	2.50	0.41
2:E:622:ALA:HA	2:E:894:GLU:HA	2.01	0.41
2:E:634:THR:HG22	2:E:882:PRO:HG3	2.02	0.41
2:E:649:ARG:HH11	2:E:649:ARG:CG	2.29	0.41
2:E:915:ARG:O	2:E:919:SER:HA	2.20	0.41
2:F:82:VAL:O	2:F:82:VAL:HG23	2.20	0.41
2:F:116:TYR:OH	2:F:120:ALA:N	2.53	0.41
2:F:374:VAL:HG11	2:F:449:ASN:HD22	1.85	0.41
2:F:586:ILE:HD13	2:F:586:ILE:HA	1.90	0.41
2:F:916:THR:CB	2:F:917:PRO:CD	2.97	0.41
2:G:15:ILE:CG2	2:G:16:ALA:N	2.82	0.41
2:G:143:VAL:HG22	2:G:144:ARG:N	2.35	0.41
2:G:177:TYR:CG	2:G:179:PRO:HD2	2.55	0.41
2:G:500:ASP:N	2:G:501:PRO:CD	2.83	0.41
2:G:681:LEU:C	2:G:681:LEU:HD12	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:730:ALA:HB1	2:I:361:SER:O	2.20	0.41
2:G:736:LYS:NZ	2:I:589:TYR:CE2	2.88	0.41
2:G:738:TRP:O	2:G:742:GLN:HG2	2.20	0.41
2:G:744:LEU:CD1	2:G:749:ILE:H	2.34	0.41
2:G:792:LEU:HB3	2:G:793:PRO:HD3	2.01	0.41
2:H:20:ALA:CB	2:H:47:ASN:HB3	2.36	0.41
2:H:250:PRO:O	2:H:251:SER:C	2.62	0.41
2:H:309:PHE:CE2	2:H:533:ILE:CD1	3.03	0.41
2:H:318:THR:HG22	2:H:338:GLN:NE2	2.35	0.41
2:H:403:SER:N	2:I:248:ALA:O	2.50	0.41
2:H:517:ARG:NH1	2:I:380:HIS:CE1	2.88	0.41
2:H:813:GLN:HB3	2:H:814:ALA:H	1.30	0.41
2:H:876:MET:HG3	2:H:876:MET:O	2.19	0.41
2:I:175:LYS:HA	2:I:223:LYS:CB	2.50	0.41
2:I:603:LEU:HD12	2:I:603:LEU:HA	1.83	0.41
2:I:725:GLU:OE2	2:I:727:TYR:CE2	2.73	0.41
2:I:848:PHE:HE1	2:I:861:LEU:O	2.02	0.41
2:J:61:SER:CA	2:K:707:ASN:HB3	2.49	0.41
2:J:64:LEU:HD12	2:J:64:LEU:O	2.20	0.41
2:J:143:VAL:O	2:J:143:VAL:CG1	2.57	0.41
2:J:178:GLN:HG3	2:K:804:TYR:CD2	2.55	0.41
2:J:402:TYR:O	2:J:403:SER:HB2	2.20	0.41
2:J:440:ASN:HA	2:L:124:LEU:HD21	2.02	0.41
2:J:532:HIS:NE2	2:K:726:GLY:HA2	2.36	0.41
2:J:595:MET:HE1	2:J:600:ALA:HA	2.03	0.41
2:J:662:PRO:N	2:J:672:PHE:HE2	2.18	0.41
2:J:810:ARG:HH12	2:K:430:ILE:HG13	1.85	0.41
2:K:15:ILE:CG1	2:L:896:PHE:HD2	2.33	0.41
2:K:104:ARG:NH1	2:L:726:GLY:HA3	2.35	0.41
2:K:499:PRO:HG2	2:K:502:MET:HG3	2.03	0.41
2:K:540:PHE:HA	2:K:543:LYS:HG2	2.02	0.41
2:K:851:ASN:OD1	2:K:853:MET:N	2.53	0.41
2:L:290:LEU:H	2:L:290:LEU:HD12	1.85	0.41
2:L:548:LEU:HB2	2:L:903:GLN:OE1	2.21	0.41
2:L:868:ALA:HB1	7:U:14:GLN:HE22	1.86	0.41
3:M:377:SER:O	3:M:378:LEU:HD12	2.20	0.41
5:O:123:ASP:O	5:O:126:THR:HG22	2.21	0.41
5:O:169:TYR:CD1	5:O:220:TRP:CD1	3.09	0.41
6:S:26:PRO:CG	6:S:31:VAL:HG21	2.51	0.41
7:U:84:PRO:HD2	7:U:180:SER:HB3	2.02	0.41
1:5:20:GLY:HA2	2:D:52:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:91:ASN:HD22	2:A:597:HIS:CD2	2.38	0.41
2:A:115:PRO:C	2:A:302:TYR:HE1	2.27	0.41
2:A:516:LEU:CD2	2:A:567:GLN:HG3	2.47	0.41
2:A:582:ARG:C	2:A:583:PHE:HD1	2.27	0.41
2:A:698:PHE:C	2:A:699:ASP:OD1	2.63	0.41
2:A:804:TYR:N	2:A:811:GLU:OE1	2.53	0.41
2:A:828:ALA:HB3	2:C:527:ARG:CD	2.49	0.41
2:A:893:PHE:HB3	2:A:918:PHE:CE2	2.56	0.41
2:B:74:GLU:HG3	3:M:393:GLN:OE1	2.17	0.41
2:B:133:CYS:HB3	2:B:134:GLU:H	1.39	0.41
2:B:176:THR:O	2:B:177:TYR:CB	2.69	0.41
2:B:382:VAL:O	2:B:384:ASP:N	2.54	0.41
2:B:686:TYR:O	2:B:687:LEU:HD12	2.19	0.41
2:B:860:ASP:O	2:B:863:GLN:HB3	2.21	0.41
2:C:14:HIS:CD2	2:C:23:TYR:CD2	3.09	0.41
2:C:81:LYS:HE3	2:C:555:GLU:OE2	2.20	0.41
2:C:443:ARG:CZ	2:C:802:VAL:HG23	2.50	0.41
2:C:680:TYR:HE1	2:C:890:TYR:HE2	1.67	0.41
2:C:720:ARG:HG3	2:C:721:THR:O	2.21	0.41
2:C:833:THR:O	2:C:834:GLN:HG3	2.20	0.41
2:D:184:GLY:O	2:E:276:TYR:CE2	2.73	0.41
2:D:368:ASP:OD1	2:D:368:ASP:N	2.50	0.41
2:D:417:ASN:ND2	2:E:140:LYS:O	2.53	0.41
2:D:549:PRO:CD	2:D:604:GLU:HG3	2.51	0.41
2:D:603:LEU:HD13	2:F:31:PHE:CZ	2.54	0.41
2:D:711:LEU:CG	2:F:65:THR:HB	2.51	0.41
2:D:738:TRP:HH2	2:D:846:ILE:HG12	1.83	0.41
2:D:876:MET:HE2	2:D:876:MET:HB3	1.89	0.41
2:D:906:ARG:O	2:D:906:ARG:HG3	2.20	0.41
2:E:83:ARG:CB	2:E:555:GLU:HG2	2.50	0.41
2:E:95:ASP:HA	2:E:546:LEU:HA	2.02	0.41
2:E:96:MET:HA	2:E:99:THR:CG2	2.51	0.41
2:E:130:PRO:HB3	2:E:291:LEU:HB3	2.03	0.41
2:E:310:ILE:O	2:E:310:ILE:HG13	2.21	0.41
2:E:461:THR:HB	2:E:480:ARG:HH11	1.83	0.41
2:E:497:TRP:CE3	2:E:776:ARG:HG3	2.56	0.41
2:E:545:LEU:HD22	2:E:901:ILE:HG21	2.03	0.41
2:E:649:ARG:HA	2:E:859:THR:HG21	2.02	0.41
2:E:747:TYR:HH	2:E:768:PHE:H	1.59	0.41
2:E:913:TYR:HB2	7:T:108:LEU:HD23	2.03	0.41
2:F:107:LEU:HD22	2:F:305:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:204:LYS:HD3	2:F:264:ASN:ND2	2.35	0.41
2:F:449:ASN:HB3	2:F:510:HIS:CE1	2.56	0.41
2:F:624:ASN:ND2	2:F:680:TYR:CE1	2.89	0.41
2:F:689:HIS:CE1	2:F:690:THR:CG2	3.04	0.41
2:F:886:PRO:HG2	6:Q:33:GLN:NE2	2.24	0.41
2:G:27:GLY:C	2:H:606:MET:HE1	2.46	0.41
2:G:61:SER:HA	2:H:707:ASN:CG	2.45	0.41
2:G:68:PHE:HD2	2:G:588:LEU:CD2	2.33	0.41
2:G:162:ILE:HG21	2:G:170:PRO:HB3	2.03	0.41
2:G:490:TYR:CE1	2:G:819:TYR:HD2	2.38	0.41
2:G:908:VAL:O	2:G:908:VAL:CG2	2.59	0.41
2:H:253:PRO:CD	2:H:253:PRO:O	2.68	0.41
2:H:389:TYR:CE1	2:I:393:LEU:HD11	2.55	0.41
2:H:567:GLN:HE21	2:H:677:SER:N	2.19	0.41
2:I:96:MET:HE3	2:I:96:MET:C	2.46	0.41
2:I:694:VAL:HG13	2:I:878:PHE:CE1	2.55	0.41
2:I:858:LEU:HB2	2:I:896:PHE:CZ	2.56	0.41
2:J:119:THR:HA	2:J:271:ASP:OD2	2.21	0.41
2:J:131:ASN:HA	2:J:132:PRO:HD2	1.81	0.41
2:J:306:ARG:NH1	2:J:567:GLN:HB2	2.35	0.41
2:J:369:SER:HA	2:J:841:ARG:HH22	1.83	0.41
2:J:449:ASN:O	2:J:450:VAL:HG22	2.20	0.41
2:J:709:ARG:O	2:J:710:LEU:C	2.61	0.41
2:K:246:PHE:CD1	2:K:259:VAL:CB	3.03	0.41
2:K:272:THR:HG21	2:K:295:ALA:HB1	2.02	0.41
2:K:312:LEU:N	2:K:565:ILE:CD1	2.76	0.41
2:K:401:THR:C	2:L:250:PRO:HD3	2.46	0.41
2:K:709:ARG:O	2:K:710:LEU:CG	2.69	0.41
2:L:76:THR:HG22	2:L:77:ALA:H	1.85	0.41
2:L:126:PRO:C	2:L:128:THR:H	2.28	0.41
2:L:221:ASN:CG	2:L:222:GLU:N	2.76	0.41
2:L:273:HIS:CD2	2:L:478:ASN:OD1	2.68	0.41
2:L:614:GLN:HG3	2:L:616:PHE:CZ	2.56	0.41
3:M:49:GLY:C	3:M:51:ASN:H	2.28	0.41
3:M:289:GLU:CA	3:M:292:ILE:HG12	2.39	0.41
5:O:143:THR:C	5:O:145:LEU:H	2.27	0.41
5:O:210:THR:O	5:O:213:PHE:CD1	2.73	0.41
6:S:2:SER:OG	6:S:3:GLY:N	2.54	0.41
7:U:185:ARG:HH11	7:U:185:ARG:HG2	1.84	0.41
1:5:19:MET:CB	2:F:34:ALA:O	2.68	0.41
2:A:780:ASN:OD1	2:A:780:ASN:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:245:GLN:N	2:B:260:LEU:O	2.54	0.41
2:B:302:TYR:CB	2:B:516:LEU:HD21	2.51	0.41
2:B:337:LEU:O	2:B:338:GLN:C	2.63	0.41
2:B:360:PHE:CD1	2:C:768:PHE:HZ	2.39	0.41
2:B:364:ASN:OD1	2:B:364:ASN:O	2.39	0.41
2:B:539:PHE:O	2:B:543:LYS:HG3	2.21	0.41
2:B:704:TRP:CZ2	2:B:848:PHE:CD1	3.08	0.41
2:B:758:GLU:H	2:B:758:GLU:CD	2.28	0.41
2:B:785:LYS:O	2:B:786:GLU:CG	2.67	0.41
2:C:62:GLN:OE1	2:C:92:ARG:NE	2.46	0.41
2:C:128:THR:HG22	2:C:294:GLN:CD	2.46	0.41
2:C:335:VAL:O	2:C:335:VAL:HG12	2.20	0.41
2:C:481:VAL:HG21	2:C:807:PRO:CG	2.51	0.41
2:C:498:SER:N	2:C:774:MET:SD	2.88	0.41
2:C:606:MET:HB2	2:C:606:MET:HE2	1.76	0.41
2:C:779:VAL:HG12	2:C:829:VAL:CG2	2.48	0.41
2:D:67:ARG:HG3	2:D:589:TYR:CZ	2.52	0.41
2:D:300:PRO:HB2	2:D:511:HIS:CB	2.51	0.41
2:D:309:PHE:CE2	2:D:533:ILE:HG21	2.55	0.41
2:D:375:ARG:NE	2:D:838:LEU:HD21	2.34	0.41
2:D:405:ILE:HG12	2:D:411:THR:HB	2.03	0.41
2:D:653:PHE:CE1	2:D:846:ILE:HD11	2.55	0.41
2:D:784:TYR:CE2	2:D:829:VAL:HG11	2.56	0.41
2:E:310:ILE:O	2:E:310:ILE:CG1	2.68	0.41
2:E:335:VAL:HG11	7:T:108:LEU:HD11	2.02	0.41
2:E:348:LEU:HD22	2:E:620:LEU:HD13	2.02	0.41
2:E:349:MET:SD	2:E:543:LYS:NZ	2.94	0.41
2:E:433:MET:CE	2:F:433:MET:HG2	2.51	0.41
2:E:450:VAL:HG21	2:E:502:MET:HE1	2.02	0.41
2:E:516:LEU:HD23	2:E:569:SER:HB2	2.02	0.41
2:E:527:ARG:NH1	2:E:527:ARG:CG	2.84	0.41
2:E:548:LEU:O	2:E:549:PRO:C	2.64	0.41
2:E:825:GLY:C	2:E:827:THR:H	2.29	0.41
2:F:662:PRO:CA	2:F:672:PHE:CE2	3.03	0.41
2:F:750:GLY:HA2	2:F:754:PHE:HE1	1.85	0.41
2:G:97:ALA:C	2:G:99:THR:N	2.78	0.41
2:G:342:THR:O	2:G:344:LEU:N	2.53	0.41
2:G:344:LEU:C	2:G:344:LEU:CD2	2.94	0.41
2:G:386:LEU:HB3	2:G:387:PRO:HD2	2.03	0.41
2:G:443:ARG:NE	2:H:386:LEU:HD23	2.35	0.41
2:G:598:ASN:OD1	2:G:598:ASN:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:750:GLY:HA2	2:G:754:PHE:CE1	2.56	0.41
2:H:43:ASN:OD1	2:H:43:ASN:C	2.63	0.41
2:H:166:THR:O	2:H:167:THR:HG23	2.20	0.41
2:H:225:GLY:C	2:H:226:GLN:HG2	2.44	0.41
2:H:421:ARG:NH2	2:I:142:LYS:HZ2	2.15	0.41
2:H:575:ARG:O	6:P:42:GLY:HA2	2.20	0.41
2:H:787:TYR:CD1	2:H:788:GLN:N	2.89	0.41
2:I:113:PHE:CD1	2:I:113:PHE:C	2.98	0.41
2:I:150:ILE:CG1	2:I:183:VAL:CG2	2.99	0.41
2:I:160:ILE:O	2:I:160:ILE:CG1	2.69	0.41
2:I:162:ILE:HG22	2:I:170:PRO:HA	2.03	0.41
2:I:370:TYR:O	2:I:372:PRO:HD3	2.20	0.41
2:I:389:TYR:HB3	2:I:391:PHE:HE1	1.82	0.41
2:I:632:ASN:OD1	2:I:884:ASP:HA	2.20	0.41
2:J:90:ASP:OD1	2:J:906:ARG:NH2	2.52	0.41
2:J:92:ARG:CD	2:J:592:PHE:HD2	2.33	0.41
2:J:123:SER:O	2:J:124:LEU:C	2.63	0.41
2:J:376:ILE:O	2:J:377:ILE:C	2.63	0.41
2:J:617:ASN:OD1	2:J:617:ASN:C	2.63	0.41
2:J:749:ILE:HG22	2:J:755:TYR:OH	2.20	0.41
2:K:102:ASP:HB2	2:K:589:TYR:CD2	2.56	0.41
2:K:443:ARG:HH22	2:K:802:VAL:HG21	1.86	0.41
2:K:603:LEU:HD12	2:K:603:LEU:HA	1.84	0.41
2:K:682:ASP:HB3	2:K:684:THR:CG2	2.47	0.41
2:K:848:PHE:HD2	2:K:861:LEU:HB3	1.85	0.41
2:K:861:LEU:HD12	2:K:861:LEU:HA	1.88	0.41
2:L:223:LYS:HB3	2:L:223:LYS:HZ1	1.84	0.41
2:L:278:PRO:O	2:L:279:ASP:OD1	2.38	0.41
2:L:626:LEU:HD12	2:L:626:LEU:C	2.44	0.41
2:L:795:GLN:NE2	2:L:819:TYR:CG	2.89	0.41
5:O:42:ILE:HD11	5:O:68:ALA:HB3	2.03	0.41
5:O:222:VAL:HG23	5:O:260:SER:HG	1.84	0.41
6:P:8:ASN:O	6:P:9:ALA:HB3	2.21	0.41
6:P:17:PHE:CE2	6:R:12:PHE:CZ	3.00	0.41
7:U:33:TRP:C	7:U:35:SER:H	2.28	0.41
1:5:25:ILE:O	1:5:26:GLY:C	2.62	0.41
2:A:263:GLU:O	2:A:265:VAL:HG22	2.21	0.41
2:A:368:ASP:HA	2:A:513:ASN:HD21	1.86	0.41
2:A:533:ILE:HG22	2:A:534:GLN:N	2.35	0.41
2:A:884:ASP:O	2:A:885:GLU:HG3	2.21	0.41
2:B:109:ARG:C	2:B:579:ALA:HB2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:131:ASN:CG	2:B:212:CYS:CB	2.91	0.41
2:B:197:LYS:CA	2:B:197:LYS:CE	2.98	0.41
2:B:217:ALA:HB3	2:B:226:GLN:HE22	1.84	0.41
2:C:69:VAL:HG23	2:E:72:ASP:OD2	2.20	0.41
2:C:328:ALA:O	2:C:329:SER:HB3	2.20	0.41
2:C:788:GLN:N	2:C:788:GLN:CD	2.74	0.41
2:C:826:GLN:OE1	2:C:826:GLN:CA	2.67	0.41
2:D:46:ARG:CZ	2:E:617:ASN:HD22	2.34	0.41
2:D:116:TYR:CE2	2:E:824:ILE:CD1	3.04	0.41
2:D:140:LYS:NZ	2:D:140:LYS:CB	2.83	0.41
2:D:276:TYR:OH	2:F:185:GLN:O	2.36	0.41
2:D:322:GLY:HA3	2:D:556:TRP:NE1	2.36	0.41
2:D:392:PRO:CA	2:F:433:MET:HE3	2.49	0.41
2:D:710:LEU:O	2:D:711:LEU:C	2.63	0.41
2:D:728:ASN:O	2:D:728:ASN:OD1	2.39	0.41
2:D:751:TYR:HD2	2:F:593:PHE:CD1	2.39	0.41
2:E:47:ASN:OD1	2:E:47:ASN:N	2.54	0.41
2:E:51:ALA:HB2	2:F:856:GLY:HA3	2.03	0.41
2:E:65:THR:HG22	2:F:711:LEU:HG	2.03	0.41
2:E:84:PHE:N	2:E:554:TYR:O	2.54	0.41
2:E:121:TYR:HE2	2:E:216:TYR:CG	2.39	0.41
2:E:290:LEU:HB3	2:E:293:GLN:HE21	1.86	0.41
2:E:705:PRO:HB2	2:E:706:GLY:H	1.20	0.41
2:E:892:LEU:O	2:E:893:PHE:C	2.64	0.41
2:E:895:VAL:HG21	2:E:915:ARG:HD2	2.03	0.41
2:F:369:SER:HB2	2:F:841:ARG:HH12	1.85	0.41
2:F:497:TRP:CZ2	2:F:836:LYS:HG3	2.51	0.41
2:F:649:ARG:NH1	2:F:894:GLU:HB3	2.36	0.41
2:F:786:GLU:N	2:F:786:GLU:OE1	2.53	0.41
2:G:45:PHE:HE1	2:H:614:GLN:CG	2.34	0.41
2:G:80:TYR:CE1	2:G:586:ILE:CD1	3.04	0.41
2:G:114:LYS:HZ1	2:G:298:ASN:HB2	1.81	0.41
2:G:223:LYS:CD	2:H:794:PHE:CE2	2.99	0.41
2:G:341:ASN:C	2:G:343:GLU:N	2.77	0.41
2:G:349:MET:HE1	2:G:543:LYS:NZ	2.36	0.41
2:G:727:TYR:N	2:G:727:TYR:CD1	2.89	0.41
2:G:869:ASN:CG	2:I:5:SER:OG	2.61	0.41
2:H:203:LEU:HD13	2:H:267:ILE:HD11	2.02	0.41
2:H:382:VAL:HG12	2:H:384:ASP:N	2.29	0.41
2:H:490:TYR:CD1	2:H:819:TYR:CD2	3.09	0.41
2:H:649:ARG:HA	2:H:859:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:835:LYS:HB2	6:Q:55:TYR:HB3	2.02	0.41
2:H:865:MET:O	2:H:869:ASN:ND2	2.47	0.41
2:I:718:ILE:HD12	2:I:718:ILE:N	2.36	0.41
2:J:109:ARG:HG3	2:J:113:PHE:HB2	2.02	0.41
2:J:301:ASN:ND2	2:J:572:ASN:HD21	2.18	0.41
2:J:313:MET:HB2	2:J:315:TYR:CE2	2.56	0.41
2:J:315:TYR:C	2:J:317:SER:N	2.76	0.41
2:J:622:ALA:HA	2:J:894:GLU:HA	2.03	0.41
2:J:704:TRP:CD2	2:J:705:PRO:N	2.89	0.41
2:K:46:ARG:NH1	2:L:617:ASN:HD22	2.19	0.41
2:K:121:TYR:CE1	2:L:820:PRO:HB2	2.56	0.41
2:K:290:LEU:HB3	2:K:291:LEU:H	1.23	0.41
2:K:313:MET:HE3	2:K:313:MET:HB3	1.44	0.41
2:K:383:GLU:OE2	2:K:383:GLU:CA	2.68	0.41
2:K:596:ALA:O	2:K:599:THR:HG22	2.20	0.41
2:K:734:MET:SD	2:K:739:PHE:HB2	2.61	0.41
2:K:815:TYR:CG	2:K:816:PRO:HD2	2.56	0.41
2:L:113:PHE:CD1	2:L:114:LYS:N	2.88	0.41
2:L:502:MET:HB2	2:L:502:MET:HE2	1.76	0.41
2:L:512:ARG:HA	2:L:517:ARG:HE	1.86	0.41
2:L:913:TYR:O	2:L:914:LEU:HB3	2.21	0.41
3:M:111:PHE:HZ	3:M:472:ILE:HD12	1.86	0.41
5:O:17:ALA:O	5:O:20:ALA:HB3	2.20	0.41
5:O:222:VAL:C	5:O:260:SER:CB	2.85	0.41
5:O:253:SER:HA	5:O:256:ILE:HD13	2.03	0.41
6:P:55:TYR:OH	6:P:57:THR:HB	2.19	0.41
6:Q:50:SER:O	6:Q:51:ALA:HB3	2.20	0.41
6:R:26:PRO:HD2	6:R:31:VAL:CG1	2.50	0.41
7:T:26:ASP:OD2	7:T:29:SER:HB3	2.20	0.41
7:U:178:GLN:HG2	7:U:179:SER:H	1.86	0.41
2:A:309:PHE:HZ	2:B:731:GLN:HE22	1.68	0.41
2:A:327:GLN:HB2	2:A:328:ALA:H	1.35	0.41
2:A:662:PRO:HD3	2:A:672:PHE:HE2	1.85	0.41
2:A:690:THR:CG2	2:A:880:VAL:HG13	2.48	0.41
2:A:698:PHE:O	2:A:699:ASP:OD1	2.39	0.41
2:A:764:MET:SD	2:A:841:ARG:NH1	2.94	0.41
2:A:843:MET:O	2:A:844:TRP:C	2.63	0.41
2:B:74:GLU:OE2	3:M:393:GLN:HG3	1.77	0.41
2:B:96:MET:HE1	2:B:554:TYR:HE2	1.81	0.41
2:B:458:TYR:HE2	2:B:501:PRO:HB2	1.85	0.41
2:B:666:SER:O	2:B:666:SER:OG	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:75:ASP:OD1	2:C:75:ASP:C	2.63	0.41
2:C:649:ARG:HH11	2:C:894:GLU:HB3	1.86	0.41
2:D:209:MET:HE2	2:D:285:ILE:HG23	2.02	0.41
2:D:336:ASP:OD1	2:D:337:LEU:N	2.54	0.41
2:D:503:ASP:OD1	2:D:689:HIS:NE2	2.54	0.41
2:D:647:ALA:HA	2:D:858:LEU:HD11	2.03	0.41
2:D:652:SER:OG	2:D:892:LEU:HD22	2.21	0.41
2:D:810:ARG:HG3	2:D:811:GLU:N	2.33	0.41
2:D:902:HIS:ND1	2:D:904:PRO:HD3	2.34	0.41
2:E:5:SER:O	2:E:6:MET:HB3	2.21	0.41
2:E:15:ILE:CD1	2:F:896:PHE:HD2	2.34	0.41
2:E:106:VAL:C	2:E:531:PHE:HE1	2.28	0.41
2:E:109:ARG:NH1	2:E:524:GLY:O	2.52	0.41
2:E:276:TYR:O	2:E:276:TYR:CG	2.73	0.41
2:E:384:ASP:OD2	2:E:436:ASN:CG	2.62	0.41
2:E:498:SER:OG	2:E:503:ASP:OD1	2.37	0.41
2:E:513:ASN:HB3	2:E:516:LEU:HB2	2.03	0.41
2:F:35:THR:O	2:F:35:THR:CG2	2.65	0.41
2:F:200:GLY:O	2:F:260:LEU:HG	2.21	0.41
2:F:344:LEU:HD23	2:F:620:LEU:HD21	2.02	0.41
2:F:376:ILE:CD1	2:F:772:GLN:HG3	2.49	0.41
2:F:624:ASN:OD1	2:F:890:TYR:CZ	2.73	0.41
2:G:57:THR:HG1	2:H:850:SER:CB	2.25	0.41
2:G:215:SER:CB	2:G:267:ILE:HD11	2.51	0.41
2:G:391:PHE:HB3	2:G:392:PRO:HD2	2.02	0.41
2:G:395:GLY:O	2:G:396:SER:HB2	2.20	0.41
2:G:497:TRP:CD2	2:G:776:ARG:CG	3.03	0.41
2:G:497:TRP:CZ3	2:G:775:SER:C	2.99	0.41
2:G:502:MET:O	2:G:502:MET:CG	2.69	0.41
2:G:796:HIS:CD2	2:I:179:PRO:HG2	2.55	0.41
2:G:809:MET:CE	2:I:187:GLN:HG2	2.50	0.41
2:G:813:GLN:HE21	2:I:148:PRO:N	2.19	0.41
2:G:824:ILE:O	2:G:824:ILE:HG13	2.20	0.41
2:G:837:PHE:O	2:G:838:LEU:C	2.62	0.41
2:G:865:MET:O	2:G:868:ALA:O	2.39	0.41
2:G:890:TYR:OH	2:G:892:LEU:HD12	2.21	0.41
2:H:61:SER:CA	2:I:707:ASN:OD1	2.61	0.41
2:H:151:GLY:CA	2:H:197:LYS:HG2	2.50	0.41
2:H:281:ALA:HB3	2:H:285:ILE:HG12	2.02	0.41
2:H:393:LEU:HD12	2:H:393:LEU:HA	1.83	0.41
2:H:731:GLN:OE1	2:H:731:GLN:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:26:PRO:O	2:I:29:VAL:HG12	2.21	0.41
2:I:70:PRO:N	2:I:84:PHE:HE1	2.19	0.41
2:I:162:ILE:HG22	2:I:170:PRO:CA	2.50	0.41
2:I:548:LEU:O	2:I:549:PRO:C	2.64	0.41
2:I:648:PHE:N	2:I:917:PRO:HG3	2.36	0.41
2:I:652:SER:O	2:I:652:SER:OG	2.36	0.41
2:I:669:ASP:OD1	2:I:669:ASP:C	2.63	0.41
2:I:718:ILE:HG13	2:I:738:TRP:CG	2.56	0.41
2:I:861:LEU:HD12	2:I:861:LEU:HA	1.85	0.41
2:J:299:ARG:HD3	2:J:570:LEU:HD11	2.01	0.41
2:J:375:ARG:NH1	2:J:375:ARG:HG2	2.35	0.41
2:J:623:ALA:HB2	2:J:915:ARG:HE	1.86	0.41
2:J:680:TYR:C	2:J:680:TYR:CD1	2.96	0.41
2:J:731:GLN:HB2	2:L:522:LEU:HD21	2.03	0.41
2:K:18:GLN:HB3	2:K:22:GLU:CG	2.51	0.41
2:K:56:VAL:HG23	2:K:57:THR:HG23	2.02	0.41
2:K:81:LYS:CE	2:K:555:GLU:OE2	2.69	0.41
2:K:121:TYR:CE2	2:K:216:TYR:O	2.74	0.41
2:K:387:PRO:HB2	2:K:389:TYR:CE1	2.55	0.41
2:K:406:LYS:CE	2:K:411:THR:OG1	2.60	0.41
2:K:433:MET:HE2	2:L:390:CYS:CB	2.35	0.41
2:K:573:ASP:HB3	2:K:576:VAL:HG22	2.03	0.41
2:K:649:ARG:HA	2:K:859:THR:CG2	2.51	0.41
2:K:711:LEU:CD2	2:K:727:TYR:CE1	3.03	0.41
2:L:118:GLY:CA	2:L:297:PRO:HB3	2.51	0.41
2:L:136:LYS:NZ	2:L:205:ASP:OD1	2.49	0.41
2:L:271:ASP:O	2:L:271:ASP:OD1	2.39	0.41
2:L:444:SER:O	2:L:448:SER:HB3	2.21	0.41
2:L:804:TYR:CD1	2:L:804:TYR:C	2.99	0.41
2:L:850:SER:N	2:L:861:LEU:CD1	2.84	0.41
2:L:901:ILE:HD13	2:L:901:ILE:HA	1.89	0.41
3:M:215:TRP:HD1	3:M:280:PRO:HB3	1.84	0.41
3:M:421:GLN:NE2	3:M:447:ALA:HB2	2.35	0.41
4:N:187:LEU:O	4:N:188:GLU:HB3	2.21	0.41
7:T:199:VAL:CG2	7:T:200:PRO:HD2	2.46	0.41
7:U:199:VAL:O	7:U:200:PRO:C	2.64	0.41
1:2:16:ARG:CG	1:2:18:PHE:HE1	2.34	0.41
1:8:16:ARG:NH2	2:C:47:ASN:HD22	2.19	0.41
2:A:113:PHE:CZ	2:A:115:PRO:HG3	2.56	0.41
2:A:261:TYR:C	2:A:263:GLU:N	2.79	0.41
2:A:349:MET:C	2:A:351:ASP:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:350:LEU:O	2:A:350:LEU:CD2	2.69	0.41
2:A:366:ALA:O	2:A:519:ARG:NH2	2.48	0.41
2:A:376:ILE:CD1	2:A:772:GLN:HG3	2.51	0.41
2:A:514:ALA:O	2:A:517:ARG:HG3	2.21	0.41
2:A:562:VAL:CG1	2:A:566:LEU:HD22	2.51	0.41
2:A:629:ILE:HG12	2:A:887:THR:O	2.21	0.41
2:A:636:VAL:O	2:A:636:VAL:HG13	2.21	0.41
2:A:674:TYR:CZ	2:A:676:GLY:O	2.74	0.41
2:A:686:TYR:CD1	2:A:686:TYR:N	2.89	0.41
2:A:708:ASP:OD1	2:A:713:PRO:HG3	2.21	0.41
2:A:813:GLN:HE21	2:C:148:PRO:HD3	1.86	0.41
2:A:823:LEU:O	2:A:823:LEU:HD23	2.21	0.41
2:A:894:GLU:O	2:A:895:VAL:HG13	2.21	0.41
2:B:110:GLY:N	2:B:579:ALA:HB2	2.35	0.41
2:B:180:GLU:OE1	2:B:180:GLU:C	2.64	0.41
2:B:273:HIS:O	2:B:273:HIS:CG	2.72	0.41
2:B:344:LEU:CD2	2:B:348:LEU:HD13	2.37	0.41
2:B:349:MET:HE2	2:B:349:MET:HB3	2.02	0.41
2:B:352:ALA:CA	2:B:763:ARG:NH1	2.77	0.41
2:B:441:LEU:O	2:B:443:ARG:N	2.52	0.41
2:B:448:SER:OG	2:C:385:GLU:HG3	2.20	0.41
2:B:539:PHE:HE1	2:B:541:ALA:CB	2.33	0.41
2:B:545:LEU:CD2	2:B:901:ILE:HD13	2.51	0.41
2:B:648:PHE:HE2	2:B:651:TRP:CE2	2.38	0.41
2:B:779:VAL:CG2	2:B:829:VAL:CG1	2.99	0.41
2:C:279:ASP:CG	2:C:280:VAL:N	2.79	0.41
2:C:288:ALA:O	2:C:289:ASP:C	2.64	0.41
2:C:302:TYR:HE2	2:C:511:HIS:HB2	1.85	0.41
2:C:344:LEU:HD12	2:C:344:LEU:HA	1.80	0.41
2:C:490:TYR:CA	2:C:819:TYR:CE1	3.04	0.41
2:C:518:TYR:O	2:C:518:TYR:CG	2.74	0.41
2:C:588:LEU:O	2:C:589:TYR:CB	2.69	0.41
2:C:607:LEU:HD23	2:C:607:LEU:HA	1.79	0.41
2:C:646:ALA:HA	2:C:868:ALA:HB2	2.02	0.41
2:C:776:ARG:C	2:C:777:GLN:HG3	2.45	0.41
2:D:67:ARG:O	2:D:68:PHE:C	2.64	0.41
2:D:115:PRO:HA	2:D:302:TYR:CE1	2.55	0.41
2:D:130:PRO:HG3	2:D:144:ARG:HH11	1.86	0.41
2:D:141:ILE:HG13	2:D:247:PHE:HE1	1.85	0.41
2:D:336:ASP:HA	2:D:340:ARG:HH21	1.85	0.41
2:D:351:ASP:OD1	2:D:351:ASP:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:401:THR:CG2	2:E:247:PHE:CD1	3.03	0.41
2:D:413:THR:O	2:D:416:ASP:N	2.54	0.41
2:D:426:GLU:O	2:D:426:GLU:OE2	2.38	0.41
2:D:477:MET:HE1	2:D:571:GLY:C	2.46	0.41
2:D:620:LEU:O	2:D:620:LEU:CD2	2.69	0.41
2:D:729:VAL:N	2:D:736:LYS:HD3	2.36	0.41
2:D:760:TYR:CD1	2:D:760:TYR:C	2.99	0.41
2:D:792:LEU:HD23	2:D:792:LEU:C	2.46	0.41
2:D:801:PHE:HB3	2:E:391:PHE:CE2	2.56	0.41
2:D:845:ARG:O	2:D:845:ARG:HG3	2.21	0.41
2:D:865:MET:HE1	2:F:4:PRO:CA	2.51	0.41
2:E:13:MET:CB	2:F:898:VAL:HG21	2.50	0.41
2:E:125:ALA:HB1	2:F:801:PHE:HE2	1.86	0.41
2:E:126:PRO:O	2:E:128:THR:N	2.51	0.41
2:E:276:TYR:O	2:E:278:PRO:HD3	2.20	0.41
2:E:573:ASP:O	2:E:575:ARG:N	2.54	0.41
2:E:644:ASN:O	2:E:645:TRP:C	2.62	0.41
2:E:678:VAL:HG23	2:E:682:ASP:HB2	2.02	0.41
2:E:791:THR:HB	2:E:792:LEU:H	1.81	0.41
2:E:902:HIS:CE1	7:T:165:ARG:NH2	2.88	0.41
2:E:922:ASN:O	2:E:922:ASN:OD1	2.39	0.41
2:F:130:PRO:HD3	2:F:291:LEU:CD1	2.46	0.41
2:F:175:LYS:O	2:F:177:TYR:N	2.53	0.41
2:F:257:LYS:O	2:F:258:ALA:HB2	2.21	0.41
2:F:319:GLY:HA2	2:H:713:PRO:CD	2.49	0.41
2:F:350:LEU:O	2:F:356:ARG:CG	2.69	0.41
2:F:545:LEU:HD12	2:F:616:PHE:HZ	1.85	0.41
2:F:572:ASN:OD1	2:F:572:ASN:C	2.64	0.41
2:F:645:TRP:CZ2	2:F:874:LEU:CD2	3.04	0.41
2:F:649:ARG:CG	2:F:896:PHE:CE1	3.03	0.41
2:F:745:SER:HB2	2:F:847:PRO:HG2	2.03	0.41
2:F:887:THR:CG2	2:F:888:LEU:H	2.24	0.41
2:G:14:HIS:HE1	2:H:900:ARG:HH21	1.64	0.41
2:G:125:ALA:HA	2:H:801:PHE:CD2	2.56	0.41
2:G:177:TYR:C	2:G:178:GLN:HE21	2.28	0.41
2:G:249:LEU:HD13	2:G:250:PRO:N	2.36	0.41
2:G:294:GLN:NE2	2:G:808:THR:HA	2.34	0.41
2:G:401:THR:HG22	2:G:424:GLU:HG3	2.02	0.41
2:G:442:TRP:CD1	2:G:442:TRP:C	2.99	0.41
2:G:468:PRO:HG3	2:G:475:ALA:HB3	2.03	0.41
2:G:472:ASN:HB3	2:G:573:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:544:ASN:O	2:I:44:LYS:HE3	2.21	0.41
2:G:647:ALA:HB2	2:I:10:TRP:HZ2	1.85	0.41
2:G:688:ASN:ND2	2:G:842:THR:O	2.54	0.41
2:G:738:TRP:CE3	2:G:742:GLN:HG2	2.47	0.41
2:G:760:TYR:CZ	2:G:761:LYS:HE2	2.55	0.41
2:G:762:ASP:OD2	2:G:768:PHE:HB3	2.20	0.41
2:G:777:GLN:NE2	2:G:833:THR:HG22	2.31	0.41
2:G:847:PRO:HG2	2:G:852:PHE:O	2.21	0.41
2:H:49:THR:HG23	2:H:49:THR:O	2.21	0.41
2:H:121:TYR:CE1	2:I:820:PRO:HG3	2.56	0.41
2:H:182:GLN:NE2	2:H:182:GLN:C	2.75	0.41
2:H:221:ASN:HB3	2:H:222:GLU:H	1.11	0.41
2:H:282:GLN:H	2:H:285:ILE:HG12	1.86	0.41
2:H:540:PHE:CG	2:H:541:ALA:N	2.88	0.41
2:H:574:LEU:HA	2:H:574:LEU:HD23	1.89	0.41
2:H:586:ILE:HD13	2:H:586:ILE:HA	1.92	0.41
2:H:655:ARG:HH11	2:H:690:THR:HG23	1.86	0.41
2:H:693:LYS:NZ	6:Q:28:TRP:CE2	2.89	0.41
2:H:736:LYS:HG3	2:H:736:LYS:H	1.74	0.41
2:H:779:VAL:HG23	2:H:823:LEU:HD21	2.01	0.41
2:H:810:ARG:HH22	2:I:430:ILE:H	1.69	0.41
2:I:54:HIS:C	2:I:55:ASP:OD1	2.64	0.41
2:I:60:ARG:HH21	2:I:597:HIS:CG	2.38	0.41
2:I:69:VAL:HG12	2:I:70:PRO:HD2	2.02	0.41
2:I:358:ARG:HH11	2:I:358:ARG:HG2	1.86	0.41
2:I:407:ALA:HB2	2:I:414:ALA:C	2.45	0.41
2:I:774:MET:HE2	2:I:774:MET:HB3	1.95	0.41
2:I:837:PHE:HE2	2:I:844:TRP:CZ2	2.39	0.41
2:I:915:ARG:O	2:I:915:ARG:CG	2.60	0.41
2:I:915:ARG:O	2:I:915:ARG:HG2	2.20	0.41
2:J:54:HIS:O	2:J:56:VAL:N	2.54	0.41
2:J:130:PRO:O	2:J:130:PRO:HD2	2.20	0.41
2:J:144:ARG:NH1	2:J:148:PRO:HD2	2.36	0.41
2:J:273:HIS:HB3	2:J:298:ASN:HD21	1.82	0.41
2:J:302:TYR:HB2	2:J:516:LEU:CD2	2.51	0.41
2:J:329:SER:O	2:J:329:SER:OG	2.37	0.41
2:J:360:PHE:C	2:J:518:TYR:HH	2.28	0.41
2:J:371:ASP:OD1	2:J:371:ASP:C	2.64	0.41
2:J:377:ILE:HG21	2:J:499:PRO:HG3	2.03	0.41
2:J:403:SER:O	2:J:403:SER:OG	2.24	0.41
2:J:406:LYS:CB	2:J:412:TRP:N	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:425:ILE:CD1	2:K:143:VAL:HG21	2.51	0.41
2:J:426:GLU:OE2	2:J:426:GLU:HA	1.83	0.41
2:J:512:ARG:O	2:J:512:ARG:HG3	2.21	0.41
2:J:629:ILE:HG12	2:J:636:VAL:CG2	2.51	0.41
2:J:653:PHE:HE1	2:J:846:ILE:CD1	2.34	0.41
2:J:720:ARG:NH1	2:J:727:TYR:HB2	2.35	0.41
2:J:747:TYR:O	2:J:748:ASN:HB2	2.19	0.41
2:J:788:GLN:CD	2:L:221:ASN:O	2.64	0.41
2:K:107:LEU:HG	2:K:581:VAL:HG12	2.03	0.41
2:K:247:PHE:H	2:K:259:VAL:HG22	1.86	0.41
2:K:316:ASN:CB	2:K:336:ASP:OD1	2.68	0.41
2:K:563:ASN:OD1	2:K:563:ASN:C	2.64	0.41
2:K:573:ASP:OD1	2:K:673:THR:HA	2.21	0.41
2:K:653:PHE:HA	2:K:890:TYR:O	2.21	0.41
2:K:704:TRP:HZ3	2:K:846:ILE:HG22	1.86	0.41
2:K:708:ASP:O	2:K:710:LEU:N	2.43	0.41
2:K:811:GLU:OE2	2:K:811:GLU:HA	2.21	0.41
2:K:832:LEU:HD12	2:K:833:THR:O	2.21	0.41
2:K:866:LEU:O	2:K:870:SER:OG	2.36	0.41
2:K:902:HIS:NE2	7:T:39:HIS:HD2	2.19	0.41
2:L:59:ASP:C	2:L:60:ARG:HG3	2.45	0.41
2:L:100:TYR:HB3	2:L:363:TRP:HH2	1.85	0.41
2:L:103:ILE:HD11	2:L:535:VAL:CG2	2.51	0.41
2:L:154:ILE:HD13	2:L:154:ILE:HA	1.60	0.41
2:L:171:ILE:HG21	2:L:176:THR:O	2.20	0.41
2:L:263:GLU:H	2:L:263:GLU:CD	2.29	0.41
2:L:275:VAL:HG21	2:L:481:VAL:HG11	2.01	0.41
2:L:434:GLU:CG	2:L:435:ILE:O	2.69	0.41
2:L:603:LEU:HA	2:L:603:LEU:HD12	1.77	0.41
2:L:656:LEU:HD12	2:L:656:LEU:O	2.20	0.41
2:L:698:PHE:HD1	2:L:874:LEU:HG	1.82	0.41
2:L:851:ASN:O	2:L:852:PHE:HB2	2.19	0.41
2:L:917:PRO:HB2	2:L:918:PHE:HD1	1.80	0.41
3:M:73:LYS:HE3	3:M:89:PHE:HB2	1.92	0.41
3:M:150:LYS:HE3	3:M:155:GLY:HA2	2.03	0.41
3:M:404:LEU:HD23	3:M:404:LEU:HA	1.82	0.41
4:N:175:LEU:HD23	4:N:176:MET:HE3	2.03	0.41
4:N:185:GLU:H	4:N:185:GLU:HG3	1.63	0.41
5:O:51:GLU:HB3	5:O:54:ARG:NH1	2.33	0.41
5:O:216:LEU:HD11	5:O:244:LEU:HD21	2.03	0.41
6:Q:17:PHE:O	6:Q:18:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:10:VAL:H	6:S:10:VAL:HG12	1.53	0.41
7:T:91:LEU:HD23	7:T:175:LEU:HB2	2.03	0.41
7:T:98:GLU:O	7:T:99:VAL:C	2.62	0.41
7:U:28:SER:C	7:U:29:SER:OG	2.64	0.41
7:U:69:LEU:O	7:U:70:ASN:HB3	2.21	0.41
1:0:22:ARG:CD	1:0:23:HIS:N	2.84	0.41
1:8:18:PHE:HD1	1:8:18:PHE:HA	1.39	0.41
2:A:247:PHE:O	2:A:248:ALA:HB2	2.20	0.41
2:A:300:PRO:HB2	2:A:511:HIS:CB	2.51	0.41
2:A:603:LEU:O	2:A:607:LEU:HB2	2.21	0.41
2:A:603:LEU:HD12	2:C:31:PHE:CE2	2.56	0.41
2:A:624:ASN:C	2:A:624:ASN:HD22	2.28	0.41
2:A:625:MET:HB2	2:A:893:PHE:HE1	1.85	0.41
2:A:810:ARG:HD3	2:B:432:ALA:HB2	2.03	0.41
2:B:38:TYR:CZ	2:C:56:VAL:HG21	2.56	0.41
2:B:187:GLN:C	2:B:189:ASN:N	2.79	0.41
2:B:455:PRO:HG3	2:B:505:VAL:CG2	2.50	0.41
2:B:555:GLU:CD	3:M:392:THR:CG2	2.92	0.41
2:B:644:ASN:OD1	2:B:644:ASN:C	2.64	0.41
2:B:660:GLU:O	2:B:678:VAL:HG13	2.21	0.41
2:B:754:PHE:N	2:B:754:PHE:CD1	2.87	0.41
2:C:131:ASN:O	2:C:132:PRO:C	2.63	0.41
2:C:346:TYR:CB	2:C:538:LYS:NZ	2.81	0.41
2:C:454:LEU:HD22	2:C:455:PRO:HD3	2.03	0.41
2:C:559:ARG:HG3	2:C:559:ARG:NH1	2.36	0.41
2:C:638:ILE:O	2:C:638:ILE:HG13	2.21	0.41
2:D:55:ASP:O	2:D:596:ALA:HB3	2.21	0.41
2:D:57:THR:O	2:D:57:THR:HG23	2.20	0.41
2:D:136:LYS:HB3	2:D:136:LYS:HE2	1.83	0.41
2:D:298:ASN:CA	2:D:478:ASN:HD21	2.34	0.41
2:D:309:PHE:CE1	2:D:364:ASN:HB2	2.56	0.41
2:E:82:VAL:HB	2:E:84:PHE:CE1	2.56	0.41
2:E:172:TYR:CD1	2:E:172:TYR:C	2.98	0.41
2:E:440:ASN:ND2	2:F:388:ASN:CA	2.84	0.41
2:E:516:LEU:CD2	2:E:569:SER:CB	2.99	0.41
2:E:518:TYR:O	2:E:518:TYR:HD1	2.04	0.41
2:E:528:TYR:C	2:E:529:VAL:HG13	2.46	0.41
2:E:561:ASP:OD2	2:E:564:MET:HE3	2.21	0.41
2:E:655:ARG:HB3	2:E:687:LEU:O	2.21	0.41
2:E:731:GLN:O	2:E:835:LYS:NZ	2.50	0.41
2:E:755:TYR:C	2:E:756:VAL:HG12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:192:VAL:HB	2:F:193:GLY:H	1.43	0.41
2:F:492:ASN:ND2	2:F:497:TRP:CD1	2.89	0.41
2:G:121:TYR:HB2	2:G:214:GLY:HA2	2.03	0.41
2:G:155:ASN:OD1	2:G:155:ASN:C	2.63	0.41
2:G:371:ASP:OD1	2:G:373:ASP:N	2.54	0.41
2:G:443:ARG:NE	2:H:386:LEU:CD2	2.84	0.41
2:H:107:LEU:CD2	2:H:109:ARG:HG3	2.50	0.41
2:H:114:LYS:HE2	2:H:298:ASN:CB	2.50	0.41
2:H:149:PHE:CD2	2:H:160:ILE:HD11	2.56	0.41
2:H:150:ILE:HD11	2:H:183:VAL:HG21	2.03	0.41
2:H:340:ARG:NH2	2:H:897:ASP:OD1	2.44	0.41
2:H:356:ARG:HH21	2:H:367:VAL:HG23	1.85	0.41
2:H:470:ASN:OD1	2:H:470:ASN:C	2.64	0.41
2:H:776:ARG:NH2	2:H:778:VAL:HG12	2.36	0.41
2:I:273:HIS:CD2	2:I:273:HIS:C	2.98	0.41
2:I:426:GLU:HG2	2:I:427:SER:N	2.36	0.41
2:I:854:SER:O	2:I:854:SER:OG	2.35	0.41
2:I:890:TYR:O	2:I:890:TYR:CD1	2.74	0.41
2:I:914:LEU:O	2:I:915:ARG:C	2.62	0.41
2:J:448:SER:OG	2:J:449:ASN:N	2.38	0.41
2:J:534:GLN:HE22	2:K:729:VAL:C	2.28	0.41
2:J:567:GLN:HG2	2:J:568:SER:H	1.86	0.41
2:J:708:ASP:OD1	2:J:713:PRO:HG3	2.20	0.41
2:K:75:ASP:OD1	2:K:75:ASP:C	2.63	0.41
2:K:364:ASN:OD1	2:K:519:ARG:HG2	2.21	0.41
2:K:405:ILE:HD12	2:K:405:ILE:N	2.35	0.41
2:K:687:LEU:HD21	2:K:883:MET:CE	2.39	0.41
2:K:718:ILE:CG1	2:K:738:TRP:CE2	3.04	0.41
2:K:735:THR:HG22	2:K:737:ASP:H	1.85	0.41
2:L:14:HIS:NE2	2:L:23:TYR:CE2	2.88	0.41
2:L:134:GLU:O	2:L:205:ASP:HA	2.21	0.41
2:L:188:TRP:O	2:L:189:ASN:CB	2.69	0.41
2:L:230:ILE:H	2:L:230:ILE:HG12	1.17	0.41
2:L:746:HIS:CE1	2:L:767:PHE:HB2	2.56	0.41
2:L:904:PRO:HG3	2:L:910:GLU:OE2	2.20	0.41
3:M:131:ASN:HB2	3:M:170:ASN:OD1	2.21	0.41
3:M:345:LEU:C	3:M:347:TYR:H	2.28	0.41
3:M:351:ASP:O	3:M:351:ASP:CG	2.62	0.41
5:O:138:ARG:NH1	5:O:138:ARG:CB	2.83	0.41
5:O:195:TYR:HA	5:O:211:GLN:CB	2.51	0.41
6:P:20:TYR:O	6:P:21:LEU:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Q:24:ARG:CZ	6:Q:24:ARG:HB2	2.51	0.41
6:R:13:LYS:O	6:R:14:GLY:C	2.59	0.41
7:T:94:ASP:OD1	7:T:94:ASP:C	2.63	0.41
1:8:36:SER:CB	2:B:620:LEU:HD13	2.51	0.40
2:A:122:ASN:OD1	2:B:798:ASN:HA	2.21	0.40
2:A:308:ASN:ND2	2:A:308:ASN:O	2.54	0.40
2:A:312:LEU:HD12	2:A:312:LEU:HA	1.88	0.40
2:A:338:GLN:HE21	2:A:665:GLY:HA2	1.85	0.40
2:A:385:GLU:CD	2:A:386:LEU:N	2.79	0.40
2:A:459:LYS:CG	2:A:482:ALA:HA	2.51	0.40
2:A:573:ASP:HB3	2:A:576:VAL:CG2	2.51	0.40
2:A:734:MET:HE3	2:A:734:MET:HB2	2.01	0.40
2:A:798:ASN:HA	2:C:122:ASN:HA	2.02	0.40
2:A:914:LEU:HD22	2:C:13:MET:CG	2.50	0.40
2:B:170:PRO:O	2:B:170:PRO:HG2	2.21	0.40
2:B:302:TYR:CE2	2:B:517:ARG:HA	2.56	0.40
2:B:471:LYS:CB	2:B:476:TYR:CB	2.85	0.40
2:B:497:TRP:NE1	2:B:776:ARG:NE	2.66	0.40
2:B:562:VAL:CG1	2:B:563:ASN:N	2.84	0.40
2:C:53:THR:CG2	2:C:54:HIS:N	2.84	0.40
2:C:127:LYS:O	2:C:129:ALA:N	2.54	0.40
2:C:220:THR:OG1	2:C:227:ALA:HB3	2.21	0.40
2:C:552:TYR:HE2	2:C:909:ILE:CG2	2.34	0.40
2:C:617:ASN:OD1	2:C:617:ASN:C	2.63	0.40
2:D:172:TYR:HD1	2:D:173:ALA:N	2.19	0.40
2:D:350:LEU:HD13	2:D:350:LEU:HA	1.94	0.40
2:D:352:ALA:C	2:D:353:LEU:HD22	2.47	0.40
2:D:370:TYR:CE2	2:D:508:PHE:HE1	2.40	0.40
2:D:568:SER:OG	2:D:571:GLY:N	2.45	0.40
2:D:649:ARG:HG2	2:D:859:THR:HG23	2.03	0.40
2:D:653:PHE:HE1	2:D:846:ILE:CD1	2.34	0.40
2:D:662:PRO:HD3	2:D:672:PHE:HE2	1.86	0.40
2:E:65:THR:CG2	2:F:711:LEU:CG	2.99	0.40
2:E:67:ARG:HD2	2:E:589:TYR:OH	2.20	0.40
2:E:83:ARG:NH1	2:E:83:ARG:CG	2.84	0.40
2:E:134:GLU:O	2:E:205:ASP:HB3	2.21	0.40
2:E:138:ASN:H	2:E:140:LYS:HZ2	1.69	0.40
2:E:141:ILE:HG13	2:E:142:LYS:CD	2.50	0.40
2:E:209:MET:HE3	2:E:290:LEU:C	2.46	0.40
2:E:573:ASP:O	2:E:574:LEU:C	2.63	0.40
2:E:651:TRP:NE1	2:E:876:MET:HE1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:891:VAL:CG1	2:E:893:PHE:CD1	3.04	0.40
2:F:95:ASP:HB2	2:F:546:LEU:HD12	2.02	0.40
2:F:306:ARG:HH11	2:F:310:ILE:HD11	1.86	0.40
2:F:351:ASP:OD2	2:F:765:TYR:N	2.43	0.40
2:F:640:ILE:O	2:F:640:ILE:HG23	2.21	0.40
2:F:796:HIS:O	2:F:796:HIS:CG	2.71	0.40
2:G:329:SER:OG	2:G:330:GLN:N	2.47	0.40
2:G:606:MET:CE	2:I:27:GLY:C	2.94	0.40
2:G:793:PRO:HB2	2:G:794:PHE:CE1	2.56	0.40
2:H:13:MET:HB3	2:I:898:VAL:HG21	2.02	0.40
2:H:58:THR:HA	2:H:596:ALA:HA	2.03	0.40
2:H:452:LEU:O	2:H:459:LYS:HD2	2.21	0.40
2:H:490:TYR:HD2	2:H:797:ASN:ND2	2.20	0.40
2:H:497:TRP:CZ3	2:H:776:ARG:N	2.89	0.40
2:H:542:ILE:O	2:H:542:ILE:CG2	2.69	0.40
2:H:558:PHE:N	2:H:558:PHE:CD1	2.89	0.40
2:H:804:TYR:CD1	2:H:804:TYR:C	2.99	0.40
2:H:810:ARG:CG	2:H:810:ARG:O	2.67	0.40
2:H:824:ILE:O	2:H:828:ALA:HB2	2.21	0.40
2:I:178:GLN:HB3	2:I:181:PRO:CD	2.51	0.40
2:I:379:ASN:HA	2:I:442:TRP:HZ2	1.86	0.40
2:I:422:GLY:O	2:I:423:ALA:C	2.63	0.40
2:I:664:LEU:HD23	2:I:664:LEU:HA	1.94	0.40
2:J:148:PRO:O	2:J:149:PHE:C	2.63	0.40
2:J:314:TYR:HE1	2:J:667:GLY:HA2	1.86	0.40
2:J:403:SER:CB	2:J:420:ASP:H	2.33	0.40
2:J:406:LYS:CB	2:J:412:TRP:H	2.33	0.40
2:J:435:ILE:CD1	2:K:390:CYS:SG	3.02	0.40
2:J:497:TRP:CE3	2:J:497:TRP:HA	2.56	0.40
2:J:753:GLY:O	2:J:755:TYR:HD1	2.03	0.40
2:J:795:GLN:NE2	2:J:819:TYR:HB2	2.35	0.40
2:J:811:GLU:CG	2:L:181:PRO:O	2.67	0.40
2:J:854:SER:O	2:J:855:MET:C	2.64	0.40
2:K:15:ILE:HD12	2:K:46:ARG:HH21	1.87	0.40
2:K:64:LEU:CD1	2:K:594:PRO:HD3	2.50	0.40
2:K:114:LYS:NZ	2:K:298:ASN:CB	2.76	0.40
2:K:270:PRO:HG3	2:L:822:PRO:HB3	2.02	0.40
2:K:376:ILE:CG2	2:K:496:ARG:HG3	2.50	0.40
2:K:405:ILE:CD1	2:L:247:PHE:HA	2.51	0.40
2:L:119:THR:HG22	2:L:120:ALA:C	2.45	0.40
2:L:320:ASN:O	2:L:320:ASN:CG	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:680:TYR:CE1	2:L:890:TYR:HE2	2.39	0.40
2:L:686:TYR:CD1	2:L:686:TYR:N	2.88	0.40
3:M:48:GLU:CG	3:M:54:ARG:HD3	2.51	0.40
3:M:89:PHE:HE1	3:M:494:ALA:HB3	1.86	0.40
3:M:144:ARG:O	3:M:242:CYS:HA	2.22	0.40
3:M:221:LEU:O	3:M:223:MET:HG3	2.20	0.40
5:O:256:ILE:HG13	5:O:257:SER:N	2.36	0.40
7:T:66:ARG:HD3	7:T:74:TRP:CH2	2.56	0.40
7:U:207:PHE:HA	7:U:214:TYR:CD1	2.56	0.40
1:8:19:MET:HE3	2:C:29:VAL:HG11	2.03	0.40
2:A:6:MET:HB2	5:O:73:ARG:HH21	1.86	0.40
2:A:216:TYR:O	2:A:216:TYR:CD2	2.74	0.40
2:A:244:LEU:HD23	2:A:244:LEU:HA	1.73	0.40
2:A:322:GLY:HA3	2:A:556:TRP:CE3	2.57	0.40
2:A:344:LEU:O	2:A:347:GLN:HB2	2.21	0.40
2:A:554:TYR:HD2	2:A:588:LEU:HD22	1.86	0.40
2:A:617:ASN:ND2	2:A:898:VAL:HG12	2.26	0.40
2:A:663:SER:O	2:A:664:LEU:HB3	2.20	0.40
2:A:691:PHE:HB3	2:A:718:ILE:HD12	2.02	0.40
2:B:93:VAL:O	2:B:93:VAL:HG23	2.21	0.40
2:B:131:ASN:O	2:B:132:PRO:C	2.62	0.40
2:B:135:TRP:CE2	2:B:142:LYS:HB2	2.57	0.40
2:B:314:TYR:CZ	2:B:667:GLY:HA3	2.54	0.40
2:B:711:LEU:HD11	2:B:727:TYR:CD1	2.56	0.40
2:C:209:MET:HE2	2:C:209:MET:H	1.83	0.40
2:C:336:ASP:O	2:C:337:LEU:C	2.64	0.40
2:C:457:SER:O	2:C:458:TYR:C	2.61	0.40
2:C:471:LYS:CD	2:C:476:TYR:CE2	3.05	0.40
2:C:548:LEU:HD22	2:C:903:GLN:HG3	2.04	0.40
2:C:765:TYR:CE1	2:C:841:ARG:NH2	2.89	0.40
2:D:102:ASP:OD2	2:D:532:HIS:CE1	2.74	0.40
2:D:309:PHE:HE1	2:D:363:TRP:C	2.29	0.40
2:D:435:ILE:HB	2:D:437:LEU:HD12	2.00	0.40
2:D:710:LEU:HD21	2:D:716:PHE:CD2	2.55	0.40
2:D:756:VAL:O	2:D:756:VAL:HG13	2.20	0.40
2:E:67:ARG:CG	2:E:589:TYR:HE1	2.34	0.40
2:E:858:LEU:HD12	2:E:858:LEU:HA	1.85	0.40
2:F:62:GLN:CG	2:F:63:ARG:N	2.84	0.40
2:F:68:PHE:CE2	2:F:86:LEU:HA	2.56	0.40
2:F:103:ILE:CA	2:F:586:ILE:CD1	2.86	0.40
2:F:153:ASN:C	2:F:153:ASN:HD22	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:203:LEU:HD11	2:F:265:VAL:HG21	2.03	0.40
2:F:431:PHE:CD1	2:F:431:PHE:C	2.99	0.40
2:F:539:PHE:HE1	2:F:541:ALA:CB	2.35	0.40
2:F:618:ASP:OD1	2:F:619:TYR:N	2.54	0.40
2:F:648:PHE:CE2	2:F:651:TRP:CZ2	3.08	0.40
2:F:668:PHE:O	2:F:670:PRO:HD3	2.21	0.40
2:G:115:PRO:O	2:G:302:TYR:CE1	2.74	0.40
2:G:190:SER:O	2:G:191:GLU:HG3	2.20	0.40
2:G:289:ASP:O	2:G:292:THR:HG22	2.21	0.40
2:G:451:ALA:HB2	2:G:487:LEU:HB3	2.03	0.40
2:G:470:ASN:OD1	2:G:470:ASN:C	2.63	0.40
2:G:526:GLY:H	2:H:777:GLN:HG2	1.86	0.40
2:G:855:MET:HE1	2:H:38:TYR:CZ	2.56	0.40
2:H:131:ASN:HB2	2:H:203:LEU:CD1	2.51	0.40
2:H:542:ILE:HD13	2:H:542:ILE:HA	1.91	0.40
2:H:632:ASN:OD1	2:H:632:ASN:C	2.63	0.40
2:H:668:PHE:CE2	6:P:40:VAL:HG23	2.56	0.40
2:H:696:ILE:HD12	2:H:696:ILE:N	2.36	0.40
2:H:721:THR:HG21	6:Q:52:THR:O	2.21	0.40
2:H:737:ASP:OD1	2:H:737:ASP:N	2.42	0.40
2:H:879:GLU:O	2:H:880:VAL:CG1	2.69	0.40
2:I:180:GLU:N	2:I:181:PRO:HD2	2.29	0.40
2:I:313:MET:HG3	2:I:535:VAL:HG11	2.03	0.40
2:I:379:ASN:HD21	2:I:493:ILE:N	2.19	0.40
2:I:410:GLN:CD	2:I:410:GLN:C	2.89	0.40
2:I:792:LEU:N	2:I:793:PRO:HD2	2.36	0.40
2:I:858:LEU:HD23	2:I:858:LEU:C	2.46	0.40
2:J:93:VAL:O	2:J:93:VAL:HG23	2.21	0.40
2:J:307:ASP:OD1	2:J:307:ASP:C	2.64	0.40
2:J:595:MET:HE2	2:J:600:ALA:HB2	2.03	0.40
2:J:801:PHE:CB	2:K:391:PHE:HE2	2.34	0.40
2:K:13:MET:HE1	2:L:914:LEU:CD2	2.49	0.40
2:K:92:ARG:NH1	2:K:92:ARG:HG2	2.35	0.40
2:K:207:THR:HG21	2:K:264:ASN:HB3	2.04	0.40
2:K:245:GLN:NE2	2:K:247:PHE:CZ	2.88	0.40
2:K:257:LYS:O	2:K:258:ALA:HB3	2.22	0.40
2:K:303:ILE:HD11	2:K:574:LEU:HD21	2.03	0.40
2:K:371:ASP:OD1	2:K:372:PRO:HD2	2.20	0.40
2:K:405:ILE:HD11	2:L:248:ALA:CB	2.52	0.40
2:K:601:SER:O	2:K:604:GLU:HG2	2.21	0.40
2:K:772:GLN:HA	2:K:772:GLN:OE1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:799:SER:CB	2:K:814:ALA:N	2.84	0.40
2:L:56:VAL:C	2:L:57:THR:CG2	2.93	0.40
5:O:120:ALA:C	5:O:122:LEU:N	2.77	0.40
5:O:169:TYR:HD1	5:O:220:TRP:CD1	2.39	0.40
5:O:304:THR:CG2	7:T:61:LEU:HD11	2.51	0.40
7:T:11:TRP:CE3	7:T:23:ALA:HB2	2.56	0.40
1:5:23:ASN:HD21	2:D:19:ASP:N	2.11	0.40
2:B:65:THR:O	2:B:66:LEU:HD22	2.22	0.40
2:B:154:ILE:CB	2:B:160:ILE:HD13	2.51	0.40
2:B:170:PRO:CD	2:B:170:PRO:O	2.69	0.40
2:B:276:TYR:CD1	2:B:277:LYS:N	2.90	0.40
2:B:510:HIS:O	2:B:513:ASN:OD1	2.39	0.40
2:B:669:ASP:C	2:B:671:TYR:N	2.80	0.40
2:B:731:GLN:N	2:B:731:GLN:OE1	2.54	0.40
2:B:769:ARG:NH1	2:B:769:ARG:CG	2.85	0.40
2:B:876:MET:H	2:B:876:MET:HG2	1.52	0.40
2:B:916:THR:N	2:B:917:PRO:HD3	2.37	0.40
2:C:46:ARG:CD	2:C:47:ASN:N	2.83	0.40
2:C:352:ALA:C	2:C:354:GLY:N	2.79	0.40
2:C:581:VAL:HG11	2:C:582:ARG:HH21	1.86	0.40
2:C:588:LEU:HB3	2:C:589:TYR:H	1.54	0.40
2:C:662:PRO:O	2:C:664:LEU:HD12	2.20	0.40
2:C:784:TYR:HB2	2:C:830:PRO:HD2	2.04	0.40
2:C:826:GLN:OE1	2:C:826:GLN:O	2.38	0.40
2:D:103:ILE:O	2:D:104:ARG:HB2	2.22	0.40
2:D:160:ILE:HD13	2:D:162:ILE:HD11	2.03	0.40
2:D:192:VAL:HG22	2:D:257:LYS:CG	2.51	0.40
2:D:267:ILE:O	2:D:267:ILE:HG22	2.20	0.40
2:D:389:TYR:O	2:F:435:ILE:CD1	2.70	0.40
2:D:415:ASP:CA	2:E:141:ILE:CG1	2.98	0.40
2:D:418:TYR:CD1	2:D:418:TYR:N	2.85	0.40
2:D:499:PRO:O	2:D:502:MET:N	2.42	0.40
2:D:658:THR:OG1	2:D:888:LEU:HG	2.21	0.40
2:D:696:ILE:HD12	2:D:696:ILE:N	2.36	0.40
2:D:792:LEU:HB3	2:D:793:PRO:HD3	2.03	0.40
2:E:315:TYR:CD1	2:E:342:THR:HG21	2.57	0.40
2:E:573:ASP:O	2:E:576:VAL:N	2.42	0.40
2:E:623:ALA:O	2:E:625:MET:CG	2.69	0.40
2:E:649:ARG:HB2	2:E:859:THR:HG23	2.04	0.40
2:F:19:ASP:OD1	2:F:47:ASN:HB3	2.22	0.40
2:F:121:TYR:CD2	2:F:216:TYR:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:280:VAL:HG11	2:F:290:LEU:HD11	2.03	0.40
2:F:314:TYR:HE1	2:F:559:ARG:HG3	1.87	0.40
2:F:341:ASN:HB2	2:F:624:ASN:ND2	2.36	0.40
2:F:648:PHE:O	2:F:649:ARG:C	2.63	0.40
2:F:683:GLY:HA2	2:F:685:PHE:HE1	1.83	0.40
2:G:10:TRP:CD1	2:G:15:ILE:HG21	2.56	0.40
2:G:57:THR:HG22	2:G:58:THR:N	2.29	0.40
2:G:156:LYS:HA	2:G:156:LYS:HD2	1.53	0.40
2:G:331:LEU:HB3	2:G:332:ASN:H	1.71	0.40
2:G:430:ILE:HD13	2:I:801:PHE:HE1	1.86	0.40
2:G:606:MET:HE1	2:I:27:GLY:HA3	2.03	0.40
2:G:646:ALA:O	2:G:862:GLY:O	2.40	0.40
2:H:244:LEU:HD12	2:H:244:LEU:H	1.85	0.40
2:H:367:VAL:O	2:H:515:GLY:HA3	2.21	0.40
2:H:377:ILE:O	2:H:377:ILE:CG1	2.67	0.40
2:H:407:ALA:CB	2:H:410:GLN:NE2	2.80	0.40
2:H:450:VAL:HG13	2:H:502:MET:SD	2.62	0.40
2:I:177:TYR:HD1	2:I:177:TYR:HA	1.78	0.40
2:I:430:ILE:HG13	2:I:430:ILE:O	2.21	0.40
2:I:656:LEU:HD12	2:I:661:THR:CG2	2.51	0.40
2:J:221:ASN:HA	2:K:788:GLN:OE1	2.20	0.40
2:J:355:ASP:OD1	2:J:355:ASP:C	2.64	0.40
2:J:380:HIS:NE2	2:L:521:MET:CE	2.84	0.40
2:J:811:GLU:OE1	2:J:811:GLU:HA	2.20	0.40
2:K:12:TYR:CE1	2:L:900:ARG:CD	3.04	0.40
2:K:94:LEU:HD23	2:K:95:ASP:C	2.46	0.40
2:K:390:CYS:HG	2:L:390:CYS:HG	1.67	0.40
2:K:513:ASN:OD1	2:K:513:ASN:C	2.63	0.40
2:K:800:GLY:H	2:K:812:GLY:HA3	1.86	0.40
2:L:60:ARG:O	2:L:61:SER:OG	2.32	0.40
2:L:149:PHE:CG	2:L:177:TYR:CZ	3.10	0.40
2:L:350:LEU:CB	2:L:356:ARG:HD3	2.45	0.40
2:L:478:ASN:OD1	2:L:478:ASN:C	2.63	0.40
2:L:540:PHE:HD2	2:L:618:ASP:OD1	2.04	0.40
2:L:559:ARG:NH1	2:L:564:MET:SD	2.95	0.40
2:L:602:THR:O	2:L:606:MET:CB	2.70	0.40
2:L:916:THR:HB	2:L:917:PRO:CD	2.43	0.40
3:M:235:ASP:CB	3:M:344:PHE:HB2	2.51	0.40
3:M:331:LEU:HD23	3:M:331:LEU:HA	1.84	0.40
3:M:357:GLN:O	3:M:357:GLN:HG2	2.22	0.40
3:M:367:VAL:CG2	3:M:409:ALA:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:261:TYR:C	5:O:265:LEU:HG	2.47	0.40
5:O:264:HIS:HB3	5:O:268:LEU:CD1	2.51	0.40
6:Q:28:TRP:HE1	6:Q:31:VAL:HG12	1.85	0.40
7:T:81:GLN:NE2	7:T:184:PRO:HB2	2.36	0.40
7:U:165:ARG:CG	7:U:172:GLN:HE22	2.32	0.40
1:0:27:PRO:CD	1:0:28:PHE:H	2.34	0.40
2:A:25:SER:CB	5:O:24:SER:HA	2.46	0.40
2:A:344:LEU:HD22	2:A:620:LEU:HD22	2.00	0.40
2:A:389:TYR:OH	2:C:433:MET:HB2	2.21	0.40
2:A:497:TRP:CD1	2:A:498:SER:O	2.74	0.40
2:A:537:GLN:CD	2:A:542:ILE:HB	2.46	0.40
2:A:804:TYR:O	2:A:806:GLY:N	2.55	0.40
2:A:807:PRO:CD	2:A:808:THR:H	2.34	0.40
2:B:84:PHE:N	2:B:84:PHE:CD1	2.89	0.40
2:B:128:THR:O	2:B:128:THR:CG2	2.55	0.40
2:B:156:LYS:O	2:B:158:ASN:N	2.55	0.40
2:B:299:ARG:HD2	2:B:453:TYR:HE1	1.87	0.40
2:B:447:TYR:HA	2:B:451:ALA:HB3	2.04	0.40
2:B:744:LEU:HD11	2:B:751:TYR:HD1	1.86	0.40
2:B:777:GLN:NE2	2:B:833:THR:HG22	2.36	0.40
2:B:785:LYS:H	2:B:785:LYS:HG2	1.68	0.40
2:B:864:ASN:HB2	2:B:865:MET:H	1.69	0.40
2:C:110:GLY:C	2:C:112:SER:N	2.69	0.40
2:C:120:ALA:O	2:C:121:TYR:CG	2.74	0.40
2:C:737:ASP:OD1	2:C:737:ASP:C	2.62	0.40
2:C:788:GLN:OE1	2:C:788:GLN:CA	2.68	0.40
2:C:864:ASN:OD1	7:T:230:ASP:HB3	2.20	0.40
2:C:914:LEU:HD21	2:C:916:THR:HG22	2.03	0.40
2:C:920:ALA:HA	2:K:714:ASN:ND2	2.34	0.40
2:D:105:GLY:O	2:D:531:PHE:N	2.51	0.40
2:D:509:ASN:CG	2:D:676:GLY:HA2	2.47	0.40
2:D:815:TYR:HA	2:D:816:PRO:HD2	1.84	0.40
2:D:824:ILE:CD1	2:F:116:TYR:HE2	2.32	0.40
2:D:863:GLN:H	2:D:863:GLN:HG2	1.68	0.40
2:D:899:VAL:HG23	2:D:913:TYR:HD1	1.87	0.40
2:E:6:MET:HE3	2:E:9:GLN:HE21	1.86	0.40
2:E:20:ALA:CA	2:E:23:TYR:CE1	2.96	0.40
2:E:204:LYS:HG3	2:E:263:GLU:C	2.46	0.40
2:E:513:ASN:HB3	2:E:516:LEU:HB3	2.03	0.40
2:E:575:ARG:NH1	2:E:672:PHE:O	2.54	0.40
2:E:591:ASN:OD1	2:F:740:LEU:HD22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:701:SER:O	2:E:702:VAL:HG13	2.22	0.40
2:F:483:VAL:O	2:F:483:VAL:CG1	2.70	0.40
2:F:486:ALA:O	2:F:487:LEU:HD12	2.21	0.40
2:F:750:GLY:HA2	2:F:754:PHE:CE1	2.56	0.40
2:F:801:PHE:N	2:F:801:PHE:CD1	2.88	0.40
2:G:15:ILE:CD1	2:H:898:VAL:HG11	2.49	0.40
2:G:36:ASP:OD1	2:G:40:SER:HA	2.21	0.40
2:G:114:LYS:O	2:G:114:LYS:HG3	2.21	0.40
2:G:135:TRP:CB	2:G:287:SER:C	2.95	0.40
2:G:244:LEU:C	2:G:244:LEU:CD1	2.86	0.40
2:G:288:ALA:O	2:G:290:LEU:N	2.54	0.40
2:G:452:LEU:HD23	2:G:452:LEU:C	2.44	0.40
2:G:686:TYR:CE2	2:G:687:LEU:CD2	3.04	0.40
2:G:779:VAL:HG11	2:G:821:TYR:CB	2.51	0.40
2:G:815:TYR:OH	2:I:201:ARG:CB	2.70	0.40
2:H:49:THR:HG23	2:I:857:ALA:N	2.22	0.40
2:H:296:ALA:CB	2:H:297:PRO:HD2	2.30	0.40
2:H:406:LYS:CB	2:I:156:LYS:NZ	2.79	0.40
2:H:632:ASN:HB2	2:H:884:ASP:HA	2.03	0.40
2:H:689:HIS:HA	2:H:837:PHE:CZ	2.56	0.40
2:H:924:THR:HG21	2:J:698:PHE:HD2	1.85	0.40
2:I:143:VAL:HG13	2:I:144:ARG:CG	2.50	0.40
2:I:175:LYS:O	2:I:176:THR:CB	2.69	0.40
2:I:189:ASN:OD1	2:I:189:ASN:O	2.40	0.40
2:I:290:LEU:HB3	2:I:293:GLN:OE1	2.22	0.40
2:I:299:ARG:HE	2:I:299:ARG:HB3	1.68	0.40
2:I:481:VAL:O	2:I:481:VAL:HG23	2.21	0.40
2:I:537:GLN:HE21	2:I:542:ILE:CG1	2.35	0.40
2:I:654:THR:HG21	2:I:685:PHE:CD2	2.56	0.40
2:I:804:TYR:CD1	2:I:805:MET:HG2	2.54	0.40
2:I:892:LEU:HD23	2:I:892:LEU:HA	1.90	0.40
2:J:65:THR:HA	2:J:590:ALA:O	2.21	0.40
2:J:76:THR:CG2	2:J:77:ALA:N	2.84	0.40
2:J:116:TYR:CE1	2:J:271:ASP:HB3	2.57	0.40
2:J:127:LYS:HD3	2:J:213:TYR:HD2	1.85	0.40
2:J:227:ALA:HB3	2:J:265:VAL:HA	2.04	0.40
2:J:386:LEU:HB2	2:J:387:PRO:CD	2.52	0.40
2:J:399:THR:N	2:J:426:GLU:HG3	2.37	0.40
2:J:615:SER:HB2	2:L:46:ARG:HG2	2.04	0.40
2:J:787:TYR:CD1	2:J:788:GLN:N	2.90	0.40
2:J:826:GLN:HB3	2:L:111:PRO:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:900:ARG:NH1	2:L:12:TYR:HE1	2.19	0.40
2:K:92:ARG:HG2	2:K:92:ARG:HH11	1.87	0.40
2:K:484:PRO:HD2	2:K:806:GLY:H	1.87	0.40
2:K:916:THR:OG1	2:K:917:PRO:CD	2.62	0.40
2:L:35:THR:HG22	2:L:35:THR:O	2.21	0.40
2:L:101:PHE:CZ	2:L:554:TYR:CE2	3.09	0.40
2:L:207:THR:HG21	2:L:265:VAL:H	1.86	0.40
2:L:308:ASN:HB3	2:L:310:ILE:HG13	2.03	0.40
2:L:312:LEU:CD1	2:L:565:ILE:HG22	2.45	0.40
2:L:484:PRO:O	2:L:488:ASP:HB2	2.22	0.40
2:L:549:PRO:CG	2:L:604:GLU:OE1	2.66	0.40
2:L:660:GLU:HG2	2:L:679:PRO:CD	2.51	0.40
2:L:679:PRO:HB3	2:L:684:THR:O	2.21	0.40
3:M:119:ALA:HB1	3:M:498:VAL:HG12	2.04	0.40
3:M:434:ASN:CG	3:M:444:ARG:HB2	2.46	0.40
5:O:195:TYR:CE2	5:O:209:LEU:HD11	2.56	0.40
5:O:206:THR:HG21	5:O:246:LEU:HD13	2.03	0.40
6:P:16:VAL:O	6:P:17:PHE:C	2.64	0.40
6:Q:16:VAL:HG11	6:R:31:VAL:HA	2.02	0.40
7:T:28:SER:OG	7:T:29:SER:N	2.55	0.40
7:T:219:ILE:O	7:T:219:ILE:HG23	2.22	0.40
7:U:81:GLN:NE2	7:U:81:GLN:HA	2.36	0.40
2:A:306:ARG:HD3	2:A:307:ASP:H	1.86	0.40
2:A:327:GLN:NE2	2:A:551:SER:H	2.20	0.40
2:A:521:MET:HG2	2:B:494:GLY:O	2.22	0.40
2:A:711:LEU:HD23	2:A:712:THR:N	2.36	0.40
2:A:799:SER:C	2:A:801:PHE:H	2.30	0.40
2:B:20:ALA:HA	2:B:23:TYR:HE1	1.76	0.40
2:B:23:TYR:CE2	2:B:24:LEU:CD1	3.04	0.40
2:B:120:ALA:HB2	2:C:493:ILE:CD1	2.45	0.40
2:B:135:TRP:HA	2:B:287:SER:HB2	2.03	0.40
2:B:204:LYS:C	2:B:205:ASP:CG	2.90	0.40
2:B:356:ARG:HD2	2:B:356:ARG:HA	1.47	0.40
2:B:710:LEU:HD12	2:B:710:LEU:HA	1.84	0.40
2:B:858:LEU:CD2	2:B:863:GLN:HB2	2.52	0.40
2:C:348:LEU:O	2:C:350:LEU:N	2.55	0.40
2:C:491:VAL:O	2:C:492:ASN:C	2.65	0.40
2:C:681:LEU:HD23	2:C:681:LEU:HA	1.90	0.40
2:D:114:LYS:HG3	2:D:116:TYR:HE1	1.85	0.40
2:D:147:ALA:HA	2:D:148:PRO:HD3	1.87	0.40
2:D:159:GLY:HA2	2:D:259:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:261:TYR:N	2:D:261:TYR:HD1	2.19	0.40
2:D:338:GLN:OE1	2:D:338:GLN:O	2.40	0.40
2:D:401:THR:HG23	2:D:401:THR:O	2.20	0.40
2:D:454:LEU:HD21	2:D:487:LEU:CD2	2.51	0.40
2:D:698:PHE:CE1	2:D:874:LEU:CD1	3.05	0.40
2:D:728:ASN:OD1	2:D:728:ASN:C	2.64	0.40
2:D:746:HIS:NE2	2:D:845:ARG:NH1	2.68	0.40
2:E:141:ILE:HG13	2:E:142:LYS:CE	2.52	0.40
2:E:315:TYR:O	2:E:316:ASN:HB2	2.21	0.40
2:E:488:ASP:OD2	2:E:490:TYR:CE2	2.75	0.40
2:E:516:LEU:HD21	2:E:568:SER:O	2.21	0.40
2:E:640:ILE:HD11	2:E:643:ARG:HD3	2.04	0.40
2:E:735:THR:C	2:E:737:ASP:H	2.29	0.40
2:E:904:PRO:HG2	2:E:908:VAL:HG21	2.02	0.40
2:F:111:PRO:O	2:F:112:SER:CB	2.70	0.40
2:F:172:TYR:O	2:F:242:VAL:HG21	2.21	0.40
2:F:255:GLU:HG3	2:F:255:GLU:H	1.42	0.40
2:F:452:LEU:CD2	2:F:482:ALA:HB3	2.51	0.40
2:F:547:LEU:HD12	2:F:547:LEU:HA	1.84	0.40
2:F:607:LEU:N	2:F:607:LEU:HD12	2.36	0.40
2:G:101:PHE:HE2	2:G:313:MET:CE	2.34	0.40
2:G:157:ASP:C	2:G:158:ASN:HD22	2.30	0.40
2:G:316:ASN:HD22	2:G:336:ASP:CG	2.29	0.40
2:G:764:MET:SD	2:G:841:ARG:NH1	2.94	0.40
2:G:870:SER:OG	2:G:871:ALA:N	2.55	0.40
2:H:57:THR:HA	2:H:594:PRO:O	2.21	0.40
2:H:121:TYR:CE2	2:H:270:PRO:HB2	2.53	0.40
2:H:129:ALA:O	2:H:212:CYS:HB2	2.22	0.40
2:H:305:PHE:HD1	2:H:523:LEU:HD11	1.85	0.40
2:H:412:TRP:HD1	2:I:141:ILE:CG1	2.35	0.40
2:H:643:ARG:NE	2:H:917:PRO:O	2.55	0.40
2:I:68:PHE:CD2	2:I:588:LEU:HD22	2.47	0.40
2:I:109:ARG:HH12	2:I:523:LEU:HB3	1.86	0.40
2:I:122:ASN:HD22	2:I:212:CYS:C	2.28	0.40
2:I:371:ASP:C	2:I:373:ASP:N	2.78	0.40
2:I:634:THR:CB	6:S:5:MET:CE	2.93	0.40
2:I:799:SER:OG	2:I:815:TYR:N	2.55	0.40
2:J:155:ASN:CB	2:J:158:ASN:HB2	2.49	0.40
2:J:377:ILE:HG22	2:J:497:TRP:O	2.22	0.40
2:J:410:GLN:HG2	2:K:256:PRO:HD3	2.00	0.40
2:J:516:LEU:CD1	2:J:567:GLN:OE1	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:547:LEU:O	2:J:548:LEU:HD22	2.21	0.40
2:J:799:SER:HG	2:J:815:TYR:N	2.14	0.40
2:J:885:GLU:O	2:J:886:PRO:C	2.64	0.40
2:K:65:THR:CG2	2:L:711:LEU:CD1	3.00	0.40
2:K:102:ASP:OD1	2:K:102:ASP:C	2.64	0.40
2:K:115:PRO:HA	2:K:302:TYR:CD1	2.56	0.40
2:K:356:ARG:HH12	2:K:367:VAL:CB	2.34	0.40
2:K:565:ILE:HD12	2:K:565:ILE:HA	1.92	0.40
2:K:653:PHE:HD2	2:K:691:PHE:CE2	2.40	0.40
2:L:516:LEU:HA	2:L:519:ARG:NH2	2.36	0.40
2:L:604:GLU:HG2	2:L:608:ARG:NH2	2.37	0.40
2:L:747:TYR:HE1	2:L:762:ASP:HA	1.86	0.40
3:M:100:THR:O	3:M:102:ALA:N	2.54	0.40
3:M:423:ILE:O	3:M:427:THR:HG23	2.22	0.40
4:N:183:LEU:N	4:N:183:LEU:CD1	2.84	0.40
5:O:164:ARG:HG3	5:O:164:ARG:NH1	2.37	0.40
5:O:179:LEU:CD1	5:O:250:PHE:HE2	2.33	0.40
5:O:198:GLN:NE2	5:O:246:LEU:HD23	2.37	0.40
6:P:26:PRO:HB2	6:P:28:TRP:CZ2	2.56	0.40
7:T:10:MET:SD	7:T:200:PRO:HB3	2.61	0.40
7:T:13:TYR:CG	7:T:194:PHE:CD2	3.09	0.40
7:T:13:TYR:HD1	7:T:14:GLN:H	1.68	0.40
7:U:168:PHE:O	7:U:169:THR:HB	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	0	10/266 (4%)	3 (30%)	3 (30%)	4 (40%)	0 0
1	1	14/266 (5%)	6 (43%)	2 (14%)	6 (43%)	0 0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	2	4/266 (2%)	2 (50%)	0	2 (50%)	0 0
1	3	10/266 (4%)	3 (30%)	5 (50%)	2 (20%)	0 1
1	4	17/266 (6%)	7 (41%)	8 (47%)	2 (12%)	0 4
1	5	14/266 (5%)	7 (50%)	4 (29%)	3 (21%)	0 1
1	6	1/266 (0%)	1 (100%)	0	0	100 100
1	7	1/266 (0%)	1 (100%)	0	0	100 100
1	8	24/266 (9%)	10 (42%)	9 (38%)	5 (21%)	0 1
1	9	1/266 (0%)	1 (100%)	0	0	100 100
2	A	776/925 (84%)	555 (72%)	163 (21%)	58 (8%)	1 11
2	B	837/925 (90%)	534 (64%)	178 (21%)	125 (15%)	0 2
2	C	852/925 (92%)	513 (60%)	186 (22%)	153 (18%)	0 1
2	D	875/925 (95%)	604 (69%)	202 (23%)	69 (8%)	1 10
2	E	868/925 (94%)	576 (66%)	230 (26%)	62 (7%)	1 12
2	F	881/925 (95%)	599 (68%)	185 (21%)	97 (11%)	0 5
2	G	870/925 (94%)	611 (70%)	184 (21%)	75 (9%)	0 9
2	H	886/925 (96%)	682 (77%)	146 (16%)	58 (6%)	1 13
2	I	902/925 (98%)	737 (82%)	137 (15%)	28 (3%)	3 24
2	J	899/925 (97%)	639 (71%)	183 (20%)	77 (9%)	0 9
2	K	830/925 (90%)	662 (80%)	138 (17%)	30 (4%)	2 21
2	L	845/925 (91%)	683 (81%)	127 (15%)	35 (4%)	2 19
3	M	452/508 (89%)	365 (81%)	81 (18%)	6 (1%)	9 38
4	N	22/348 (6%)	9 (41%)	6 (27%)	7 (32%)	0 0
5	O	259/579 (45%)	190 (73%)	53 (20%)	16 (6%)	1 14
6	P	56/133 (42%)	41 (73%)	12 (21%)	3 (5%)	1 16
6	Q	48/133 (36%)	34 (71%)	12 (25%)	2 (4%)	2 19
6	R	28/133 (21%)	13 (46%)	11 (39%)	4 (14%)	0 3
6	S	56/133 (42%)	17 (30%)	16 (29%)	23 (41%)	0 0
7	T	174/233 (75%)	139 (80%)	33 (19%)	2 (1%)	11 40
7	U	175/233 (75%)	139 (79%)	31 (18%)	5 (3%)	3 25
8	X	5/7 (71%)	1 (20%)	4 (80%)	0	100 100
All	All	11692/16200 (72%)	8384 (72%)	2349 (20%)	959 (8%)	1 9

All (959) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	0	20	ALA
1	0	23	HIS
1	0	25	SER
1	1	10	ALA
1	1	12	ARG
1	1	17	PRO
1	2	17	PRO
1	2	19	MET
1	4	17	PRO
1	8	17	PRO
1	8	31	ASN
1	8	35	PHE
2	A	55	ASP
2	A	57	THR
2	A	128	THR
2	A	130	PRO
2	A	207	THR
2	A	211	PRO
2	A	212	CYS
2	A	223	LYS
2	A	248	ALA
2	A	256	PRO
2	A	262	ALA
2	A	263	GLU
2	A	276	TYR
2	A	280	VAL
2	A	297	PRO
2	A	329	SER
2	A	437	LEU
2	A	540	PHE
2	A	542	ILE
2	A	705	PRO
2	A	707	ASN
2	A	792	LEU
2	A	798	ASN
2	A	807	PRO
2	B	141	ILE
2	B	147	ALA
2	B	148	PRO
2	B	155	ASN
2	B	169	GLN
2	B	170	PRO

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Mol	Chain	Res	Type
2	B	173	ALA
2	B	177	TYR
2	B	179	PRO
2	B	180	GLU
2	B	182	GLN
2	B	187	GLN
2	B	189	ASN
2	B	191	GLU
2	B	192	VAL
2	B	206	THR
2	B	212	CYS
2	B	242	VAL
2	B	249	LEU
2	B	252	THR
2	B	269	ALA
2	B	270	PRO
2	B	272	THR
2	B	278	PRO
2	B	288	ALA
2	B	301	ASN
2	B	313	MET
2	B	323	VAL
2	B	338	GLN
2	B	362	MET
2	B	364	ASN
2	B	366	ALA
2	B	367	VAL
2	B	430	ILE
2	B	431	PHE
2	B	450	VAL
2	B	464	ASN
2	B	470	ASN
2	B	654	THR
2	B	663	SER
2	B	668	PHE
2	B	673	THR
2	B	676	GLY
2	B	793	PRO
2	B	796	HIS
2	B	818	ASN
2	B	820	PRO
2	B	822	PRO

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Mol	Chain	Res	Type
2	B	823	LEU
2	B	828	ALA
2	B	851	ASN
2	B	852	PHE
2	B	860	ASP
2	B	878	PHE
2	B	895	VAL
2	B	917	PRO
2	B	921	GLY
2	C	104	ARG
2	C	106	VAL
2	C	124	LEU
2	C	137	ASP
2	C	138	ASN
2	C	148	PRO
2	C	160	ILE
2	C	161	GLN
2	C	162	ILE
2	C	170	PRO
2	C	179	PRO
2	C	180	GLU
2	C	181	PRO
2	C	186	THR
2	C	191	GLU
2	C	193	GLY
2	C	195	ALA
2	C	208	PRO
2	C	209	MET
2	C	217	ALA
2	C	234	THR
2	C	236	GLN
2	C	268	GLU
2	C	269	ALA
2	C	287	SER
2	C	289	ASP
2	C	290	LEU
2	C	299	ARG
2	C	300	PRO
2	C	327	GLN
2	C	328	ALA
2	C	329	SER
2	C	330	GLN

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Mol	Chain	Res	Type
2	C	346	TYR
2	C	355	ASP
2	C	362	MET
2	C	363	TRP
2	C	366	ALA
2	C	367	VAL
2	C	380	HIS
2	C	382	VAL
2	C	383	GLU
2	C	435	ILE
2	C	451	ALA
2	C	454	LEU
2	C	458	TYR
2	C	569	SER
2	C	570	LEU
2	C	584	ASP
2	C	588	LEU
2	C	589	TYR
2	C	601	SER
2	C	615	SER
2	C	706	GLY
2	C	707	ASN
2	C	713	PRO
2	C	715	GLU
2	C	722	VAL
2	C	723	ASP
2	C	730	ALA
2	C	748	ASN
2	C	754	PHE
2	C	755	TYR
2	C	764	MET
2	C	799	SER
2	C	805	MET
2	C	814	ALA
2	C	816	PRO
2	C	817	ALA
2	C	818	ASN
2	C	819	TYR
2	C	830	PRO
2	D	101	PHE
2	D	117	SER
2	D	126	PRO

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Mol	Chain	Res	Type
2	D	130	PRO
2	D	132	PRO
2	D	142	LYS
2	D	144	ARG
2	D	150	ILE
2	D	187	GLN
2	D	189	ASN
2	D	204	LYS
2	D	206	THR
2	D	208	PRO
2	D	209	MET
2	D	210	LEU
2	D	213	TYR
2	D	216	TYR
2	D	220	THR
2	D	253	PRO
2	D	258	ALA
2	D	276	TYR
2	D	279	ASP
2	D	363	TRP
2	D	364	ASN
2	D	365	GLN
2	D	408	ASN
2	D	720	ARG
2	D	728	ASN
2	D	729	VAL
2	D	781	THR
2	D	815	TYR
2	D	816	PRO
2	D	818	ASN
2	E	47	ASN
2	E	48	PRO
2	E	49	THR
2	E	138	ASN
2	E	143	VAL
2	E	144	ARG
2	E	148	PRO
2	E	150	ILE
2	E	197	LYS
2	E	312	LEU
2	E	313	MET
2	E	314	TYR

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Mol	Chain	Res	Type
2	E	699	ASP
2	E	700	SER
2	E	702	VAL
2	E	707	ASN
2	E	730	ALA
2	E	781	THR
2	E	787	TYR
2	E	793	PRO
2	E	794	PHE
2	E	798	ASN
2	E	801	PHE
2	E	805	MET
2	E	808	THR
2	E	813	GLN
2	E	815	TYR
2	E	816	PRO
2	E	818	ASN
2	E	819	TYR
2	E	884	ASP
2	E	916	THR
2	E	917	PRO
2	E	918	PHE
2	F	112	SER
2	F	113	PHE
2	F	115	PRO
2	F	116	TYR
2	F	127	LYS
2	F	128	THR
2	F	132	PRO
2	F	139	ASN
2	F	150	ILE
2	F	168	ASN
2	F	175	LYS
2	F	177	TYR
2	F	178	GLN
2	F	179	PRO
2	F	180	GLU
2	F	181	PRO
2	F	182	GLN
2	F	185	GLN
2	F	186	THR
2	F	187	GLN

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Mol	Chain	Res	Type
2	F	193	GLY
2	F	211	PRO
2	F	221	ASN
2	F	223	LYS
2	F	252	THR
2	F	253	PRO
2	F	254	ASN
2	F	259	VAL
2	F	269	ALA
2	F	270	PRO
2	F	272	THR
2	F	276	TYR
2	F	295	ALA
2	F	386	LEU
2	F	388	ASN
2	F	392	PRO
2	F	396	SER
2	F	398	ALA
2	F	645	TRP
2	F	647	ALA
2	F	648	PHE
2	F	649	ARG
2	F	707	ASN
2	F	708	ASP
2	F	728	ASN
2	F	729	VAL
2	F	819	TYR
2	G	96	MET
2	G	140	LYS
2	G	141	ILE
2	G	176	THR
2	G	244	LEU
2	G	253	PRO
2	G	259	VAL
2	G	269	ALA
2	G	273	HIS
2	G	276	TYR
2	G	308	ASN
2	G	319	GLY
2	G	323	VAL
2	G	324	LEU
2	G	331	LEU

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Mol	Chain	Res	Type
2	G	332	ASN
2	G	361	SER
2	G	362	MET
2	G	364	ASN
2	G	366	ALA
2	G	376	ILE
2	G	378	GLU
2	G	379	ASN
2	G	396	SER
2	G	699	ASP
2	G	712	THR
2	G	713	PRO
2	G	715	GLU
2	G	719	LYS
2	G	725	GLU
2	G	728	ASN
2	G	729	VAL
2	G	731	GLN
2	G	733	ASN
2	G	904	PRO
2	G	915	ARG
2	G	917	PRO
2	H	144	ARG
2	H	148	PRO
2	H	157	ASP
2	H	158	ASN
2	H	168	ASN
2	H	179	PRO
2	H	181	PRO
2	H	187	GLN
2	H	218	LYS
2	H	246	PHE
2	H	250	PRO
2	H	252	THR
2	H	253	PRO
2	H	264	ASN
2	H	269	ALA
2	H	288	ALA
2	H	729	VAL
2	H	791	THR
2	H	793	PRO
2	H	795	GLN

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Mol	Chain	Res	Type
2	H	796	HIS
2	H	816	PRO
2	H	818	ASN
2	I	132	PRO
2	I	135	TRP
2	I	173	ALA
2	I	174	ASP
2	I	175	LYS
2	I	176	THR
2	I	181	PRO
2	I	182	GLN
2	I	183	VAL
2	I	188	TRP
2	I	361	SER
2	I	366	ALA
2	I	421	ARG
2	I	841	ARG
2	I	916	THR
2	I	917	PRO
2	J	45	PHE
2	J	113	PHE
2	J	119	THR
2	J	121	TYR
2	J	130	PRO
2	J	132	PRO
2	J	147	ALA
2	J	149	PHE
2	J	177	TYR
2	J	188	TRP
2	J	189	ASN
2	J	256	PRO
2	J	319	GLY
2	J	388	ASN
2	J	400	ASP
2	J	408	ASN
2	J	413	THR
2	J	425	ILE
2	J	426	GLU
2	J	427	SER
2	J	437	LEU
2	J	457	SER
2	J	699	ASP

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Mol	Chain	Res	Type
2	J	702	VAL
2	J	707	ASN
2	J	708	ASP
2	J	916	THR
2	J	917	PRO
2	K	210	LEU
2	K	216	TYR
2	K	222	GLU
2	K	242	VAL
2	K	253	PRO
2	K	254	ASN
2	K	264	ASN
2	K	265	VAL
2	K	269	ALA
2	K	271	ASP
2	K	276	TYR
2	K	290	LEU
2	K	297	PRO
2	K	300	PRO
2	K	307	ASP
2	K	308	ASN
2	L	138	ASN
2	L	148	PRO
2	L	150	ILE
2	L	152	THR
2	L	188	TRP
2	L	189	ASN
2	L	191	GLU
2	L	210	LEU
2	L	214	GLY
2	L	215	SER
2	L	217	ALA
2	L	699	ASP
2	L	700	SER
2	L	709	ARG
3	M	63	ASP
3	M	131	ASN
3	M	132	ILE
4	N	188	GLU
5	O	92	LYS
5	O	94	ILE
5	O	193	PRO

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Mol	Chain	Res	Type
5	O	195	TYR
5	O	257	SER
5	O	260	SER
5	O	261	TYR
6	P	17	PHE
6	P	19	PRO
6	Q	17	PHE
6	Q	18	SER
6	R	17	PHE
6	R	18	SER
6	S	4	SER
6	S	6	GLU
6	S	8	ASN
6	S	12	PHE
6	S	17	PHE
6	S	29	ALA
6	S	43	ARG
6	S	44	PRO
7	T	5	ILE
7	U	19	LEU
7	U	21	ALA
7	U	23	ALA
1	0	19	LEU
1	1	14	GLY
1	1	15	SER
1	3	24	GLU
1	5	25	ILE
1	8	29	GLN
2	A	9	GLN
2	A	54	HIS
2	A	243	ASN
2	A	245	GLN
2	A	247	PHE
2	A	265	VAL
2	A	267	ILE
2	A	278	PRO
2	A	292	THR
2	A	327	GLN
2	A	438	ALA
2	A	623	ALA
2	A	795	GLN
2	A	800	GLY

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Mol	Chain	Res	Type
2	A	805	MET
2	B	140	LYS
2	B	145	GLY
2	B	174	ASP
2	B	188	TRP
2	B	228	SER
2	B	290	LEU
2	B	318	THR
2	B	320	ASN
2	B	347	GLN
2	B	363	TRP
2	B	451	ALA
2	B	456	ASP
2	B	465	ILE
2	B	468	PRO
2	B	474	TYR
2	B	652	SER
2	B	675	SER
2	B	825	GLY
2	B	873	ALA
2	B	875	ASP
2	B	904	PRO
2	B	905	HIS
2	B	913	TYR
2	B	918	PHE
2	C	103	ILE
2	C	139	ASN
2	C	158	ASN
2	C	164	THR
2	C	171	ILE
2	C	183	VAL
2	C	192	VAL
2	C	213	TYR
2	C	214	GLY
2	C	237	THR
2	C	265	VAL
2	C	285	ILE
2	C	302	TYR
2	C	303	ILE
2	C	339	ASP
2	C	353	LEU
2	C	356	ARG

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Mol	Chain	Res	Type
2	C	364	ASN
2	C	369	SER
2	C	452	LEU
2	C	455	PRO
2	C	566	LEU
2	C	579	ALA
2	C	586	ILE
2	C	716	PHE
2	C	736	LYS
2	C	760	TYR
2	C	780	ASN
2	C	798	ASN
2	C	802	VAL
2	C	820	PRO
2	C	826	GLN
2	D	137	ASP
2	D	148	PRO
2	D	159	GLY
2	D	161	GLN
2	D	211	PRO
2	D	221	ASN
2	D	269	ALA
2	D	270	PRO
2	D	272	THR
2	D	415	ASP
2	D	721	THR
2	D	723	ASP
2	D	731	GLN
2	D	780	ASN
2	D	801	PHE
2	D	822	PRO
2	E	96	MET
2	E	136	LYS
2	E	192	VAL
2	E	729	VAL
2	E	747	TYR
2	E	780	ASN
2	E	791	THR
2	E	807	PRO
2	E	814	ALA
2	F	124	LEU
2	F	161	GLN

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Mol	Chain	Res	Type
2	F	165	ASP
2	F	184	GLY
2	F	190	SER
2	F	191	GLU
2	F	192	VAL
2	F	214	GLY
2	F	222	GLU
2	F	247	PHE
2	F	249	LEU
2	F	250	PRO
2	F	251	SER
2	F	273	HIS
2	F	282	GLN
2	F	383	GLU
2	F	387	PRO
2	F	397	ALA
2	F	768	PHE
2	F	816	PRO
2	G	60	ARG
2	G	265	VAL
2	G	271	ASP
2	G	272	THR
2	G	312	LEU
2	G	333	ALA
2	G	347	GLN
2	G	357	SER
2	G	367	VAL
2	G	383	GLU
2	G	385	GLU
2	G	906	ARG
2	G	918	PHE
2	H	123	SER
2	H	127	LYS
2	H	165	ASP
2	H	173	ALA
2	H	174	ASP
2	H	175	LYS
2	H	188	TRP
2	H	194	ALA
2	H	214	GLY
2	H	215	SER
2	H	217	ALA

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Mol	Chain	Res	Type
2	H	245	GLN
2	H	249	LEU
2	I	178	GLN
2	I	186	THR
2	I	187	GLN
2	I	405	ILE
2	I	408	ASN
2	I	413	THR
2	I	415	ASP
2	I	840	ASP
2	I	918	PHE
2	J	46	ARG
2	J	137	ASP
2	J	141	ILE
2	J	150	ILE
2	J	153	ASN
2	J	179	PRO
2	J	190	SER
2	J	195	ALA
2	J	205	ASP
2	J	212	CYS
2	J	229	LEU
2	J	230	ILE
2	J	318	THR
2	J	399	THR
2	J	411	THR
2	J	419	ALA
2	J	456	ASP
2	J	710	LEU
2	K	211	PRO
2	K	212	CYS
2	K	217	ALA
2	K	219	PRO
2	K	251	SER
2	K	258	ALA
2	L	122	ASN
2	L	144	ARG
2	L	145	GLY
2	L	153	ASN
2	L	174	ASP
2	L	211	PRO
2	L	223	LYS

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Mol	Chain	Res	Type
3	M	234	PRO
4	N	171	PRO
4	N	181	GLN
4	N	182	LYS
4	N	183	LEU
5	O	192	GLY
5	O	194	ASP
6	R	16	VAL
6	S	10	VAL
6	S	16	VAL
6	S	20	TYR
6	S	31	VAL
6	S	45	VAL
6	S	46	ALA
6	S	48	ALA
6	S	49	ASN
7	T	213	LEU
7	U	20	ALA
1	3	25	ILE
1	5	17	PRO
2	A	10	TRP
2	A	11	SER
2	A	208	PRO
2	A	433	MET
2	A	799	SER
2	A	819	TYR
2	B	135	TRP
2	B	185	GLN
2	B	211	PRO
2	B	215	SER
2	B	246	PHE
2	B	253	PRO
2	B	314	TYR
2	B	361	SER
2	B	438	ALA
2	B	479	GLY
2	B	659	LYS
2	B	865	MET
2	B	866	LEU
2	C	123	SER
2	C	125	ALA
2	C	130	PRO

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Mol	Chain	Res	Type
2	C	146	GLN
2	C	153	ASN
2	C	166	THR
2	C	286	SER
2	C	312	LEU
2	C	345	SER
2	C	581	VAL
2	C	732	CYS
2	C	779	VAL
2	C	828	ALA
2	D	104	ARG
2	D	215	SER
2	D	251	SER
2	D	257	LYS
2	D	410	GLN
2	D	819	TYR
2	E	46	ARG
2	E	137	ASP
2	E	146	GLN
2	E	189	ASN
2	E	190	SER
2	E	196	GLN
2	E	740	LEU
2	E	748	ASN
2	E	784	TYR
2	E	796	HIS
2	F	152	THR
2	F	170	PRO
2	F	172	TYR
2	F	174	ASP
2	F	188	TRP
2	F	219	PRO
2	F	248	ALA
2	F	385	GLU
2	F	710	LEU
2	F	730	ALA
2	F	767	PHE
2	F	775	SER
2	F	822	PRO
2	G	177	TYR
2	G	297	PRO
2	G	311	GLY

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Mol	Chain	Res	Type
2	G	318	THR
2	G	363	TRP
2	G	380	HIS
2	G	388	ASN
2	G	700	SER
2	G	920	ALA
2	H	130	PRO
2	H	132	PRO
2	H	167	THR
2	H	192	VAL
2	H	272	THR
2	H	281	ALA
2	H	792	LEU
2	I	136	LYS
2	I	179	PRO
2	J	122	ASN
2	J	128	THR
2	J	146	GLN
2	J	148	PRO
2	J	162	ILE
2	J	196	GLN
2	J	214	GLY
2	J	215	SER
2	J	217	ALA
2	J	416	ASP
2	J	422	GLY
2	J	438	ALA
2	J	868	ALA
2	K	209	MET
2	K	223	LYS
2	K	257	LYS
2	K	270	PRO
2	L	123	SER
2	L	204	LYS
2	L	218	LYS
4	N	180	ARG
5	O	93	ALA
5	O	115	SER
5	O	117	ASN
6	P	21	LEU
6	S	5	MET
6	S	13	LYS

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Mol	Chain	Res	Type
6	S	37	GLY
2	A	129	ALA
2	A	215	SER
2	A	220	THR
2	A	258	ALA
2	A	269	ALA
2	A	545	LEU
2	A	810	ARG
2	A	822	PRO
2	B	130	PRO
2	B	132	PRO
2	B	168	ASN
2	B	204	LYS
2	B	222	GLU
2	B	250	PRO
2	B	344	LEU
2	B	383	GLU
2	B	436	ASN
2	B	442	TRP
2	B	471	LYS
2	B	906	ARG
2	B	916	THR
2	C	128	THR
2	C	150	ILE
2	C	185	GLN
2	C	187	GLN
2	C	194	ALA
2	C	211	PRO
2	C	218	LYS
2	C	276	TYR
2	C	436	ASN
2	C	594	PRO
2	C	605	ALA
2	C	746	HIS
2	C	767	PHE
2	C	770	ASN
2	C	771	PHE
2	D	110	GLY
2	D	153	ASN
2	D	201	ARG
2	D	425	ILE
2	D	722	VAL

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Mol	Chain	Res	Type
2	D	823	LEU
2	E	147	ALA
2	E	659	LYS
2	E	731	GLN
2	E	795	GLN
2	F	111	PRO
2	F	164	THR
2	F	189	ASN
2	F	194	ALA
2	F	256	PRO
2	F	291	LEU
2	F	292	THR
2	G	252	THR
2	G	284	THR
2	G	296	ALA
2	G	916	THR
2	G	921	GLY
2	H	128	THR
2	H	172	TYR
2	H	182	GLN
2	H	185	GLN
2	H	256	PRO
2	H	271	ASP
2	H	276	TYR
2	J	176	THR
2	J	198	VAL
2	J	219	PRO
2	J	401	THR
2	J	700	SER
2	J	866	LEU
2	K	248	ALA
2	K	296	ALA
2	L	172	TYR
2	L	181	PRO
2	L	208	PRO
2	L	222	GLU
3	M	365	ALA
5	O	119	GLN
5	O	123	ASP
6	R	20	TYR
6	S	21	LEU
6	S	54	THR

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Mol	Chain	Res	Type
1	1	16	ARG
1	5	18	PHE
2	A	214	GLY
2	A	218	LYS
2	A	823	LEU
2	B	210	LEU
2	B	227	ALA
2	B	256	PRO
2	B	267	ILE
2	B	277	LYS
2	B	299	ARG
2	B	919	SER
2	C	178	GLN
2	C	188	TRP
2	C	196	GLN
2	C	450	VAL
2	C	580	SER
2	C	718	ILE
2	C	721	THR
2	C	765	TYR
2	C	822	PRO
2	C	824	ILE
2	D	409	GLY
2	D	736	LYS
2	E	919	SER
2	F	123	SER
2	F	183	VAL
2	F	793	PRO
2	F	798	ASN
2	F	818	ASN
2	G	56	VAL
2	G	144	ARG
2	G	303	ILE
2	G	908	VAL
2	H	190	SER
2	H	705	PRO
2	J	170	PRO
2	J	218	LYS
2	J	398	ALA
2	J	406	LYS
2	J	418	TYR
2	K	299	ARG

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Mol	Chain	Res	Type
2	L	137	ASP
2	L	187	GLN
2	L	221	ASN
4	N	172	THR
5	O	219	MET
6	S	14	GLY
2	A	227	ALA
2	B	156	LYS
2	B	208	PRO
2	B	664	LEU
2	B	792	LEU
2	C	212	CYS
2	C	273	HIS
2	C	592	PHE
2	C	712	THR
2	C	757	PRO
2	C	794	PHE
2	D	212	CYS
2	E	703	SER
2	F	772	GLN
2	F	792	LEU
2	G	178	GLN
2	G	260	LEU
2	G	338	GLN
2	H	184	GLY
2	H	731	GLN
2	J	435	ILE
2	J	447	TYR
2	L	196	GLN
3	M	235	ASP
6	S	53	LEU
2	B	265	VAL
2	B	903	GLN
2	C	749	ILE
2	C	800	GLY
2	D	129	ALA
2	D	726	GLY
2	D	778	VAL
2	E	141	ILE
2	E	802	VAL
2	F	141	ILE
2	F	405	ILE

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Mol	Chain	Res	Type
2	G	702	VAL
2	H	170	PRO
2	H	275	VAL
2	I	180	GLU
2	J	450	VAL
2	J	705	PRO
2	K	208	PRO
1	8	25	ILE
2	B	214	GLY
2	B	455	PRO
2	E	792	LEU
2	G	250	PRO
2	G	334	VAL
2	L	704	TRP
2	B	193	GLY
2	B	377	ILE
2	C	210	LEU
2	D	225	GLY
2	D	779	VAL
2	F	724	GLY
2	H	255	GLU
2	J	171	ILE
2	L	143	VAL
5	O	221	GLY
1	4	16	ARG
2	A	52	PRO
2	C	267	ILE
2	C	704	TRP
2	G	179	PRO
2	J	394	GLY
2	J	455	PRO
2	L	225	GLY
7	U	18	GLY
2	B	181	PRO
2	H	819	TYR

5.3.2 Protein sidechains (i)

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	0	10/227 (4%)	7 (70%)	3 (30%)	0 2
1	1	12/227 (5%)	8 (67%)	4 (33%)	0 1
1	2	5/227 (2%)	2 (40%)	3 (60%)	0 0
1	3	10/227 (4%)	7 (70%)	3 (30%)	0 2
1	4	15/227 (7%)	13 (87%)	2 (13%)	4 19
1	5	13/227 (6%)	9 (69%)	4 (31%)	0 1
1	6	3/227 (1%)	2 (67%)	1 (33%)	0 1
1	7	3/227 (1%)	2 (67%)	1 (33%)	0 1
1	8	20/227 (9%)	11 (55%)	9 (45%)	0 0
1	9	3/227 (1%)	2 (67%)	1 (33%)	0 1
2	A	687/797 (86%)	631 (92%)	56 (8%)	10 34
2	B	739/797 (93%)	606 (82%)	133 (18%)	2 12
2	C	748/797 (94%)	624 (83%)	124 (17%)	2 13
2	D	764/797 (96%)	688 (90%)	76 (10%)	7 29
2	E	761/797 (96%)	710 (93%)	51 (7%)	15 40
2	F	770/797 (97%)	691 (90%)	79 (10%)	7 27
2	G	763/797 (96%)	698 (92%)	65 (8%)	10 33
2	H	770/797 (97%)	715 (93%)	55 (7%)	13 39
2	I	782/797 (98%)	756 (97%)	26 (3%)	33 55
2	J	781/797 (98%)	710 (91%)	71 (9%)	9 32
2	K	731/797 (92%)	707 (97%)	24 (3%)	33 55
2	L	744/797 (93%)	714 (96%)	30 (4%)	28 51
3	M	408/447 (91%)	402 (98%)	6 (2%)	57 69
4	N	24/307 (8%)	22 (92%)	2 (8%)	10 34
5	O	228/501 (46%)	218 (96%)	10 (4%)	25 48
6	P	44/97 (45%)	42 (96%)	2 (4%)	24 48
6	Q	38/97 (39%)	35 (92%)	3 (8%)	11 36
6	R	24/97 (25%)	22 (92%)	2 (8%)	10 34
6	S	44/97 (45%)	26 (59%)	18 (41%)	0 0
7	T	148/192 (77%)	143 (97%)	5 (3%)	32 54
7	U	148/192 (77%)	147 (99%)	1 (1%)	76 77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	X	7/7 (100%)	6 (86%)	1 (14%)	3 17
All	All	10247/13868 (74%)	9376 (92%)	871 (8%)	12 33

All (871) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	19	LEU
1	0	22	ARG
1	0	29	MET
1	1	15	SER
1	1	16	ARG
1	1	17	PRO
1	1	18	PHE
1	2	16	ARG
1	2	17	PRO
1	2	18	PHE
1	3	19	MET
1	3	21	THR
1	3	25	ILE
1	4	17	PRO
1	4	18	PHE
1	5	16	ARG
1	5	18	PHE
1	5	19	MET
1	5	25	ILE
1	6	12	ARG
1	7	12	ARG
1	8	11	PRO
1	8	12	ARG
1	8	18	PHE
1	8	22	TRP
1	8	25	ILE
1	8	27	THR
1	8	30	LEU
1	8	31	ASN
1	8	35	PHE
1	9	12	ARG
2	A	6	MET
2	A	7	MET
2	A	8	PRO
2	A	13	MET
2	A	55	ASP

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Mol	Chain	Res	Type
2	A	127	LYS
2	A	130	PRO
2	A	209	MET
2	A	210	LEU
2	A	226	GLN
2	A	228	SER
2	A	229	LEU
2	A	243	ASN
2	A	245	GLN
2	A	246	PHE
2	A	249	LEU
2	A	256	PRO
2	A	257	LYS
2	A	268	GLU
2	A	271	ASP
2	A	274	LEU
2	A	277	LYS
2	A	282	GLN
2	A	291	LEU
2	A	293	GLN
2	A	294	GLN
2	A	297	PRO
2	A	299	ARG
2	A	324	LEU
2	A	329	SER
2	A	330	GLN
2	A	434	GLU
2	A	435	ILE
2	A	437	LEU
2	A	440	ASN
2	A	537	GLN
2	A	538	LYS
2	A	542	ILE
2	A	543	LYS
2	A	545	LEU
2	A	620	LEU
2	A	621	CYS
2	A	624	ASN
2	A	625	MET
2	A	705	PRO
2	A	709	ARG
2	A	792	LEU

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Mol	Chain	Res	Type
2	A	793	PRO
2	A	794	PHE
2	A	796	HIS
2	A	798	ASN
2	A	807	PRO
2	A	808	THR
2	A	810	ARG
2	A	815	TYR
2	A	816	PRO
2	B	132	PRO
2	B	138	ASN
2	B	140	LYS
2	B	141	ILE
2	B	142	LYS
2	B	144	ARG
2	B	146	GLN
2	B	148	PRO
2	B	150	ILE
2	B	152	THR
2	B	153	ASN
2	B	154	ILE
2	B	155	ASN
2	B	162	ILE
2	B	166	THR
2	B	167	THR
2	B	168	ASN
2	B	170	PRO
2	B	172	TYR
2	B	177	TYR
2	B	179	PRO
2	B	181	PRO
2	B	183	VAL
2	B	187	GLN
2	B	188	TRP
2	B	190	SER
2	B	191	GLU
2	B	192	VAL
2	B	196	GLN
2	B	197	LYS
2	B	198	VAL
2	B	201	ARG
2	B	203	LEU

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Mol	Chain	Res	Type
2	B	205	ASP
2	B	208	PRO
2	B	210	LEU
2	B	215	SER
2	B	216	TYR
2	B	219	PRO
2	B	220	THR
2	B	222	GLU
2	B	242	VAL
2	B	244	LEU
2	B	245	GLN
2	B	247	PHE
2	B	249	LEU
2	B	250	PRO
2	B	252	THR
2	B	253	PRO
2	B	255	GLU
2	B	256	PRO
2	B	268	GLU
2	B	270	PRO
2	B	271	ASP
2	B	274	LEU
2	B	275	VAL
2	B	278	PRO
2	B	280	VAL
2	B	303	ILE
2	B	307	ASP
2	B	312	LEU
2	B	320	ASN
2	B	323	VAL
2	B	324	LEU
2	B	334	VAL
2	B	336	ASP
2	B	337	LEU
2	B	338	GLN
2	B	341	ASN
2	B	342	THR
2	B	343	GLU
2	B	347	GLN
2	B	348	LEU
2	B	349	MET
2	B	350	LEU

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Mol	Chain	Res	Type
2	B	356	ARG
2	B	370	TYR
2	B	374	VAL
2	B	375	ARG
2	B	376	ILE
2	B	378	GLU
2	B	383	GLU
2	B	445	PHE
2	B	446	LEU
2	B	449	ASN
2	B	450	VAL
2	B	454	LEU
2	B	455	PRO
2	B	456	ASP
2	B	460	ILE
2	B	463	ASP
2	B	465	ILE
2	B	468	PRO
2	B	471	LYS
2	B	473	THR
2	B	480	ARG
2	B	649	ARG
2	B	651	TRP
2	B	652	SER
2	B	656	LEU
2	B	660	GLU
2	B	662	PRO
2	B	664	LEU
2	B	670	PRO
2	B	671	TYR
2	B	673	THR
2	B	675	SER
2	B	677	SER
2	B	678	VAL
2	B	680	TYR
2	B	681	LEU
2	B	790	VAL
2	B	791	THR
2	B	792	LEU
2	B	794	PHE
2	B	796	HIS
2	B	797	ASN

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Mol	Chain	Res	Type
2	B	819	TYR
2	B	821	TYR
2	B	822	PRO
2	B	826	GLN
2	B	850	SER
2	B	851	ASN
2	B	866	LEU
2	B	874	LEU
2	B	875	ASP
2	B	876	MET
2	B	892	LEU
2	B	900	ARG
2	B	904	PRO
2	B	908	VAL
2	B	916	THR
2	B	917	PRO
2	C	99	THR
2	C	100	TYR
2	C	103	ILE
2	C	104	ARG
2	C	112	SER
2	C	124	LEU
2	C	127	LYS
2	C	130	PRO
2	C	131	ASN
2	C	136	LYS
2	C	144	ARG
2	C	148	PRO
2	C	153	ASN
2	C	154	ILE
2	C	157	ASP
2	C	161	GLN
2	C	162	ILE
2	C	165	ASP
2	C	170	PRO
2	C	171	ILE
2	C	178	GLN
2	C	182	GLN
2	C	186	THR
2	C	188	TRP
2	C	196	GLN
2	C	198	VAL

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Mol	Chain	Res	Type
2	C	210	LEU
2	C	215	SER
2	C	218	LYS
2	C	220	THR
2	C	222	GLU
2	C	223	LYS
2	C	226	GLN
2	C	228	SER
2	C	229	LEU
2	C	230	ILE
2	C	235	ASP
2	C	255	GLU
2	C	257	LYS
2	C	260	LEU
2	C	261	TYR
2	C	267	ILE
2	C	277	LYS
2	C	280	VAL
2	C	282	GLN
2	C	284	THR
2	C	285	ILE
2	C	289	ASP
2	C	291	LEU
2	C	292	THR
2	C	294	GLN
2	C	300	PRO
2	C	301	ASN
2	C	305	PHE
2	C	306	ARG
2	C	314	TYR
2	C	329	SER
2	C	330	GLN
2	C	334	VAL
2	C	337	LEU
2	C	343	GLU
2	C	356	ARG
2	C	361	SER
2	C	363	TRP
2	C	367	VAL
2	C	368	ASP
2	C	370	TYR
2	C	378	GLU

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Mol	Chain	Res	Type
2	C	382	VAL
2	C	385	GLU
2	C	434	GLU
2	C	435	ILE
2	C	449	ASN
2	C	450	VAL
2	C	452	LEU
2	C	457	SER
2	C	458	TYR
2	C	565	ILE
2	C	566	LEU
2	C	572	ASN
2	C	582	ARG
2	C	583	PHE
2	C	584	ASP
2	C	586	ILE
2	C	587	ASN
2	C	597	HIS
2	C	602	THR
2	C	603	LEU
2	C	606	MET
2	C	616	PHE
2	C	704	TRP
2	C	708	ASP
2	C	709	ARG
2	C	710	LEU
2	C	713	PRO
2	C	714	ASN
2	C	720	ARG
2	C	722	VAL
2	C	723	ASP
2	C	727	TYR
2	C	731	GLN
2	C	732	CYS
2	C	748	ASN
2	C	749	ILE
2	C	755	TYR
2	C	761	LYS
2	C	763	ARG
2	C	764	MET
2	C	773	PRO
2	C	776	ARG

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Mol	Chain	Res	Type
2	C	778	VAL
2	C	783	THR
2	C	794	PHE
2	C	797	ASN
2	C	798	ASN
2	C	799	SER
2	C	805	MET
2	C	809	MET
2	C	810	ARG
2	C	815	TYR
2	C	820	PRO
2	C	821	TYR
2	C	824	ILE
2	C	833	THR
2	D	101	PHE
2	D	102	ASP
2	D	104	ARG
2	D	114	LYS
2	D	116	TYR
2	D	117	SER
2	D	121	TYR
2	D	126	PRO
2	D	127	LYS
2	D	128	THR
2	D	130	PRO
2	D	132	PRO
2	D	133	CYS
2	D	136	LYS
2	D	138	ASN
2	D	140	LYS
2	D	141	ILE
2	D	142	LYS
2	D	144	ARG
2	D	146	GLN
2	D	148	PRO
2	D	152	THR
2	D	154	ILE
2	D	157	ASP
2	D	158	ASN
2	D	160	ILE
2	D	175	LYS
2	D	176	THR

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Mol	Chain	Res	Type
2	D	187	GLN
2	D	188	TRP
2	D	191	GLU
2	D	201	ARG
2	D	202	VAL
2	D	203	LEU
2	D	205	ASP
2	D	206	THR
2	D	208	PRO
2	D	210	LEU
2	D	218	LYS
2	D	220	THR
2	D	223	LYS
2	D	226	GLN
2	D	228	SER
2	D	246	PHE
2	D	249	LEU
2	D	255	GLU
2	D	256	PRO
2	D	257	LYS
2	D	259	VAL
2	D	260	LEU
2	D	270	PRO
2	D	274	LEU
2	D	275	VAL
2	D	280	VAL
2	D	285	ILE
2	D	286	SER
2	D	362	MET
2	D	410	GLN
2	D	413	THR
2	D	415	ASP
2	D	417	ASN
2	D	418	TYR
2	D	424	GLU
2	D	425	ILE
2	D	721	THR
2	D	725	GLU
2	D	727	TYR
2	D	736	LYS
2	D	737	ASP
2	D	779	VAL

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Mol	Chain	Res	Type
2	D	815	TYR
2	D	816	PRO
2	D	821	TYR
2	D	822	PRO
2	D	823	LEU
2	D	824	ILE
2	E	45	PHE
2	E	48	PRO
2	E	50	VAL
2	E	96	MET
2	E	135	TRP
2	E	136	LYS
2	E	137	ASP
2	E	138	ASN
2	E	142	LYS
2	E	143	VAL
2	E	144	ARG
2	E	146	GLN
2	E	148	PRO
2	E	196	GLN
2	E	197	LYS
2	E	310	ILE
2	E	312	LEU
2	E	313	MET
2	E	658	THR
2	E	659	LYS
2	E	663	SER
2	E	697	MET
2	E	699	ASP
2	E	701	SER
2	E	702	VAL
2	E	703	SER
2	E	704	TRP
2	E	705	PRO
2	E	728	ASN
2	E	734	MET
2	E	737	ASP
2	E	746	HIS
2	E	749	ILE
2	E	781	THR
2	E	790	VAL
2	E	791	THR

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Mol	Chain	Res	Type
2	E	796	HIS
2	E	807	PRO
2	E	808	THR
2	E	810	ARG
2	E	811	GLU
2	E	815	TYR
2	E	820	PRO
2	E	883	MET
2	E	884	ASP
2	E	888	LEU
2	E	889	LEU
2	E	914	LEU
2	E	915	ARG
2	E	917	PRO
2	E	918	PHE
2	F	100	TYR
2	F	104	ARG
2	F	111	PRO
2	F	115	PRO
2	F	116	TYR
2	F	121	TYR
2	F	123	SER
2	F	124	LEU
2	F	127	LYS
2	F	131	ASN
2	F	134	GLU
2	F	135	TRP
2	F	138	ASN
2	F	140	LYS
2	F	144	ARG
2	F	150	ILE
2	F	153	ASN
2	F	161	GLN
2	F	174	ASP
2	F	175	LYS
2	F	178	GLN
2	F	179	PRO
2	F	180	GLU
2	F	181	PRO
2	F	190	SER
2	F	192	VAL
2	F	210	LEU

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Mol	Chain	Res	Type
2	F	211	PRO
2	F	218	LYS
2	F	221	ASN
2	F	222	GLU
2	F	226	GLN
2	F	228	SER
2	F	229	LEU
2	F	252	THR
2	F	253	PRO
2	F	255	GLU
2	F	256	PRO
2	F	257	LYS
2	F	259	VAL
2	F	260	LEU
2	F	267	ILE
2	F	268	GLU
2	F	270	PRO
2	F	272	THR
2	F	274	LEU
2	F	279	ASP
2	F	284	THR
2	F	285	ILE
2	F	290	LEU
2	F	291	LEU
2	F	293	GLN
2	F	300	PRO
2	F	382	VAL
2	F	386	LEU
2	F	387	PRO
2	F	392	PRO
2	F	399	THR
2	F	400	ASP
2	F	644	ASN
2	F	709	ARG
2	F	710	LEU
2	F	728	ASN
2	F	729	VAL
2	F	734	MET
2	F	736	LYS
2	F	772	GLN
2	F	775	SER
2	F	776	ARG

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Mol	Chain	Res	Type
2	F	777	GLN
2	F	790	VAL
2	F	792	LEU
2	F	793	PRO
2	F	794	PHE
2	F	797	ASN
2	F	821	TYR
2	F	823	LEU
2	F	824	ILE
2	F	830	PRO
2	G	54	HIS
2	G	55	ASP
2	G	58	THR
2	G	59	ASP
2	G	62	GLN
2	G	94	LEU
2	G	96	MET
2	G	138	ASN
2	G	141	ILE
2	G	142	LYS
2	G	175	LYS
2	G	177	TYR
2	G	243	ASN
2	G	244	LEU
2	G	245	GLN
2	G	249	LEU
2	G	253	PRO
2	G	254	ASN
2	G	259	VAL
2	G	263	GLU
2	G	273	HIS
2	G	275	VAL
2	G	282	GLN
2	G	299	ARG
2	G	303	ILE
2	G	321	MET
2	G	329	SER
2	G	330	GLN
2	G	331	LEU
2	G	334	VAL
2	G	347	GLN
2	G	358	ARG

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Mol	Chain	Res	Type
2	G	361	SER
2	G	363	TRP
2	G	368	ASP
2	G	369	SER
2	G	374	VAL
2	G	375	ARG
2	G	376	ILE
2	G	377	ILE
2	G	378	GLU
2	G	385	GLU
2	G	386	LEU
2	G	391	PHE
2	G	401	THR
2	G	403	SER
2	G	436	ASN
2	G	698	PHE
2	G	701	SER
2	G	702	VAL
2	G	704	TRP
2	G	714	ASN
2	G	715	GLU
2	G	718	ILE
2	G	719	LYS
2	G	722	VAL
2	G	725	GLU
2	G	727	TYR
2	G	732	CYS
2	G	900	ARG
2	G	905	HIS
2	G	909	ILE
2	G	914	LEU
2	G	917	PRO
2	G	922	ASN
2	H	124	LEU
2	H	127	LYS
2	H	130	PRO
2	H	131	ASN
2	H	132	PRO
2	H	155	ASN
2	H	157	ASP
2	H	167	THR
2	H	169	GLN

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Mol	Chain	Res	Type
2	H	170	PRO
2	H	175	LYS
2	H	178	GLN
2	H	182	GLN
2	H	185	GLN
2	H	186	THR
2	H	190	SER
2	H	191	GLU
2	H	192	VAL
2	H	197	LYS
2	H	201	ARG
2	H	215	SER
2	H	218	LYS
2	H	223	LYS
2	H	245	GLN
2	H	249	LEU
2	H	250	PRO
2	H	251	SER
2	H	253	PRO
2	H	254	ASN
2	H	255	GLU
2	H	256	PRO
2	H	259	VAL
2	H	263	GLU
2	H	267	ILE
2	H	268	GLU
2	H	270	PRO
2	H	272	THR
2	H	277	LYS
2	H	285	ILE
2	H	287	SER
2	H	289	ASP
2	H	290	LEU
2	H	292	THR
2	H	293	GLN
2	H	299	ARG
2	H	705	PRO
2	H	728	ASN
2	H	729	VAL
2	H	790	VAL
2	H	791	THR
2	H	792	LEU

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Mol	Chain	Res	Type
2	H	813	GLN
2	H	815	TYR
2	H	816	PRO
2	H	818	ASN
2	I	132	PRO
2	I	135	TRP
2	I	140	LYS
2	I	141	ILE
2	I	144	ARG
2	I	172	TYR
2	I	175	LYS
2	I	177	TYR
2	I	179	PRO
2	I	183	VAL
2	I	185	GLN
2	I	186	THR
2	I	362	MET
2	I	363	TRP
2	I	402	TYR
2	I	406	LYS
2	I	410	GLN
2	I	413	THR
2	I	416	ASP
2	I	417	ASN
2	I	418	TYR
2	I	420	ASP
2	I	421	ARG
2	I	810	ARG
2	I	917	PRO
2	I	918	PHE
2	J	44	LYS
2	J	46	ARG
2	J	49	THR
2	J	100	TYR
2	J	104	ARG
2	J	107	LEU
2	J	109	ARG
2	J	121	TYR
2	J	122	ASN
2	J	127	LYS
2	J	130	PRO
2	J	131	ASN

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Mol	Chain	Res	Type
2	J	132	PRO
2	J	133	CYS
2	J	134	GLU
2	J	135	TRP
2	J	136	LYS
2	J	138	ASN
2	J	140	LYS
2	J	141	ILE
2	J	142	LYS
2	J	146	GLN
2	J	161	GLN
2	J	162	ILE
2	J	169	GLN
2	J	175	LYS
2	J	189	ASN
2	J	191	GLU
2	J	197	LYS
2	J	206	THR
2	J	209	MET
2	J	215	SER
2	J	218	LYS
2	J	219	PRO
2	J	220	THR
2	J	221	ASN
2	J	229	LEU
2	J	246	PHE
2	J	256	PRO
2	J	321	MET
2	J	385	GLU
2	J	386	LEU
2	J	388	ASN
2	J	393	LEU
2	J	396	SER
2	J	401	THR
2	J	405	ILE
2	J	406	LYS
2	J	411	THR
2	J	412	TRP
2	J	416	ASP
2	J	418	TYR
2	J	421	ARG
2	J	424	GLU

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Mol	Chain	Res	Type
2	J	426	GLU
2	J	429	ASN
2	J	430	ILE
2	J	437	LEU
2	J	443	ARG
2	J	446	LEU
2	J	448	SER
2	J	450	VAL
2	J	455	PRO
2	J	702	VAL
2	J	705	PRO
2	J	707	ASN
2	J	709	ARG
2	J	710	LEU
2	J	865	MET
2	J	915	ARG
2	J	917	PRO
2	K	211	PRO
2	K	216	TYR
2	K	218	LYS
2	K	219	PRO
2	K	223	LYS
2	K	229	LEU
2	K	243	ASN
2	K	247	PHE
2	K	249	LEU
2	K	250	PRO
2	K	252	THR
2	K	253	PRO
2	K	257	LYS
2	K	264	ASN
2	K	266	SER
2	K	290	LEU
2	K	294	GLN
2	K	297	PRO
2	K	300	PRO
2	K	303	ILE
2	K	305	PHE
2	K	307	ASP
2	K	312	LEU
2	K	313	MET
2	L	123	SER

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Mol	Chain	Res	Type
2	L	124	LEU
2	L	138	ASN
2	L	144	ARG
2	L	146	GLN
2	L	150	ILE
2	L	152	THR
2	L	154	ILE
2	L	171	ILE
2	L	172	TYR
2	L	174	ASP
2	L	175	LYS
2	L	178	GLN
2	L	196	GLN
2	L	197	LYS
2	L	198	VAL
2	L	205	ASP
2	L	208	PRO
2	L	210	LEU
2	L	211	PRO
2	L	218	LYS
2	L	223	LYS
2	L	228	SER
2	L	229	LEU
2	L	230	ILE
2	L	698	PHE
2	L	700	SER
2	L	703	SER
2	L	705	PRO
2	L	708	ASP
3	M	62	TYR
3	M	64	THR
3	M	162	PHE
3	M	213	LEU
3	M	366	ASP
3	M	367	VAL
4	N	171	PRO
4	N	185	GLU
5	O	117	ASN
5	O	118	VAL
5	O	119	GLN
5	O	193	PRO
5	O	194	ASP

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Mol	Chain	Res	Type
5	O	219	MET
5	O	222	VAL
5	O	252	ASN
5	O	255	THR
5	O	265	LEU
6	P	18	SER
6	P	19	PRO
6	Q	16	VAL
6	Q	17	PHE
6	Q	19	PRO
6	R	21	LEU
6	R	32	ARG
6	S	1	MET
6	S	10	VAL
6	S	13	LYS
6	S	16	VAL
6	S	21	LEU
6	S	22	THR
6	S	23	THR
6	S	26	PRO
6	S	31	VAL
6	S	32	ARG
6	S	33	GLN
6	S	35	VAL
6	S	36	MET
6	S	39	ASN
6	S	40	VAL
6	S	44	PRO
6	S	49	ASN
6	S	52	THR
7	T	4	GLU
7	T	7	THR
7	T	213	LEU
7	T	214	TYR
7	T	215	PRO
7	U	16	GLN
8	X	14	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (291) such sidechains are listed below:

Mol	Chain	Res	Type
1	5	23	ASN

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Mol	Chain	Res	Type
1	9	13	HIS
2	A	14	HIS
2	A	91	ASN
2	A	226	GLN
2	A	254	ASN
2	A	327	GLN
2	A	509	ASN
2	A	534	GLN
2	A	591	ASN
2	A	597	HIS
2	A	728	ASN
2	A	752	GLN
2	A	780	ASN
2	A	788	GLN
2	A	795	GLN
2	A	798	ASN
2	A	813	GLN
2	A	834	GLN
2	A	872	HIS
2	B	138	ASN
2	B	153	ASN
2	B	187	GLN
2	B	196	GLN
2	B	327	GLN
2	B	330	GLN
2	B	347	GLN
2	B	365	GLN
2	B	380	HIS
2	B	464	ASN
2	B	510	HIS
2	B	525	ASN
2	B	557	ASN
2	B	591	ASN
2	B	609	ASN
2	B	624	ASN
2	B	770	ASN
2	B	788	GLN
2	B	795	GLN
2	B	797	ASN
2	B	826	GLN
2	B	863	GLN
2	B	872	HIS

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Mol	Chain	Res	Type
2	B	902	HIS
2	C	43	ASN
2	C	47	ASN
2	C	54	HIS
2	C	138	ASN
2	C	158	ASN
2	C	182	GLN
2	C	196	GLN
2	C	221	ASN
2	C	226	GLN
2	C	232	ASN
2	C	273	HIS
2	C	282	GLN
2	C	338	GLN
2	C	347	GLN
2	C	365	GLN
2	C	380	HIS
2	C	440	ASN
2	C	464	ASN
2	C	478	ASN
2	C	492	ASN
2	C	563	ASN
2	C	591	ASN
2	C	598	ASN
2	C	609	ASN
2	C	689	HIS
2	C	746	HIS
2	C	770	ASN
2	C	780	ASN
2	D	43	ASN
2	D	138	ASN
2	D	158	ASN
2	D	185	GLN
2	D	187	GLN
2	D	273	HIS
2	D	282	GLN
2	D	308	ASN
2	D	338	GLN
2	D	379	ASN
2	D	410	GLN
2	D	417	ASN
2	D	464	ASN

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Mol	Chain	Res	Type
2	D	478	ASN
2	D	506	ASN
2	D	597	HIS
2	D	752	GLN
2	D	788	GLN
2	D	795	GLN
2	D	826	GLN
2	E	14	HIS
2	E	62	GLN
2	E	91	ASN
2	E	138	ASN
2	E	161	GLN
2	E	189	ASN
2	E	298	ASN
2	E	316	ASN
2	E	347	GLN
2	E	440	ASN
2	E	478	ASN
2	E	506	ASN
2	E	509	ASN
2	E	510	HIS
2	E	525	ASN
2	E	572	ASN
2	E	597	HIS
2	E	612	ASN
2	E	617	ASN
2	E	748	ASN
2	E	772	GLN
2	E	780	ASN
2	E	797	ASN
2	E	798	ASN
2	E	902	HIS
2	F	18	GLN
2	F	122	ASN
2	F	131	ASN
2	F	153	ASN
2	F	169	GLN
2	F	196	GLN
2	F	226	GLN
2	F	273	HIS
2	F	308	ASN
2	F	338	GLN

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Mol	Chain	Res	Type
2	F	341	ASN
2	F	449	ASN
2	F	478	ASN
2	F	492	ASN
2	F	506	ASN
2	F	509	ASN
2	F	563	ASN
2	F	587	ASN
2	F	591	ASN
2	F	688	ASN
2	F	714	ASN
2	F	728	ASN
2	F	742	GLN
2	F	752	GLN
2	F	777	GLN
2	F	795	GLN
2	F	796	HIS
2	F	813	GLN
2	F	869	ASN
2	F	905	HIS
2	G	9	GLN
2	G	14	HIS
2	G	122	ASN
2	G	138	ASN
2	G	161	GLN
2	G	178	GLN
2	G	254	ASN
2	G	294	GLN
2	G	298	ASN
2	G	509	ASN
2	G	510	HIS
2	G	544	ASN
2	G	617	ASN
2	G	688	ASN
2	G	742	GLN
2	G	752	GLN
2	G	777	GLN
2	G	788	GLN
2	G	813	GLN
2	G	818	ASN
2	G	903	GLN
2	H	122	ASN

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Mol	Chain	Res	Type
2	H	158	ASN
2	H	182	GLN
2	H	187	GLN
2	H	196	GLN
2	H	273	HIS
2	H	282	GLN
2	H	294	GLN
2	H	338	GLN
2	H	341	ASN
2	H	365	GLN
2	H	379	ASN
2	H	388	ASN
2	H	410	GLN
2	H	478	ASN
2	H	510	HIS
2	H	557	ASN
2	H	567	GLN
2	H	591	ASN
2	H	752	GLN
2	H	780	ASN
2	H	788	GLN
2	H	813	GLN
2	I	146	GLN
2	I	182	GLN
2	I	185	GLN
2	I	189	ASN
2	I	293	GLN
2	I	298	ASN
2	I	341	ASN
2	I	410	GLN
2	I	440	ASN
2	I	525	ASN
2	I	688	ASN
2	I	742	GLN
2	I	770	ASN
2	I	797	ASN
2	I	798	ASN
2	I	863	GLN
2	I	869	ASN
2	J	62	GLN
2	J	138	ASN
2	J	273	HIS

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Mol	Chain	Res	Type
2	J	301	ASN
2	J	308	ASN
2	J	330	GLN
2	J	338	GLN
2	J	440	ASN
2	J	525	ASN
2	J	612	ASN
2	J	733	ASN
2	J	770	ASN
2	J	797	ASN
2	J	813	GLN
2	J	869	ASN
2	J	872	HIS
2	J	922	ASN
2	K	9	GLN
2	K	54	HIS
2	K	226	GLN
2	K	243	ASN
2	K	273	HIS
2	K	298	ASN
2	K	347	GLN
2	K	379	ASN
2	K	388	ASN
2	K	410	GLN
2	K	492	ASN
2	K	612	ASN
2	K	644	ASN
2	K	707	ASN
2	K	733	ASN
2	K	770	ASN
2	K	796	HIS
2	K	818	ASN
2	K	922	ASN
2	L	138	ASN
2	L	139	ASN
2	L	226	GLN
2	L	245	GLN
2	L	316	ASN
2	L	347	GLN
2	L	388	ASN
2	L	449	ASN
2	L	492	ASN

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Mol	Chain	Res	Type
2	L	506	ASN
2	L	609	ASN
2	L	752	GLN
2	L	772	GLN
2	L	777	GLN
2	L	780	ASN
2	L	788	GLN
2	L	795	GLN
2	L	798	ASN
2	L	813	GLN
3	M	51	ASN
3	M	357	GLN
3	M	372	GLN
3	M	393	GLN
3	M	408	HIS
3	M	440	GLN
4	N	170	GLN
5	O	60	ASN
5	O	78	HIS
5	O	117	ASN
5	O	121	ASN
5	O	205	GLN
5	O	208	ASN
5	O	215	ASN
5	O	264	HIS
5	O	281	GLN
6	R	33	GLN
7	T	14	GLN
7	T	16	GLN
7	T	39	HIS
7	T	45	ASN
7	T	52	ASN
7	T	78	GLN
7	T	81	GLN
7	T	205	ASN
7	U	70	ASN
7	U	73	ASN
7	U	78	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

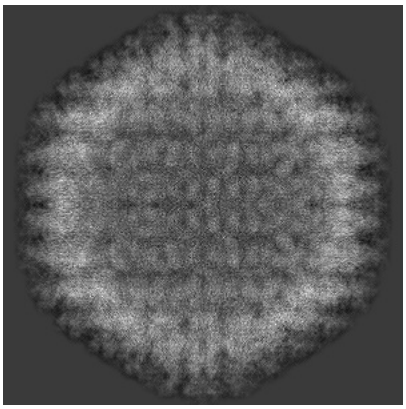
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11108. These allow visual inspection of the internal detail of the map and identification of artifacts.

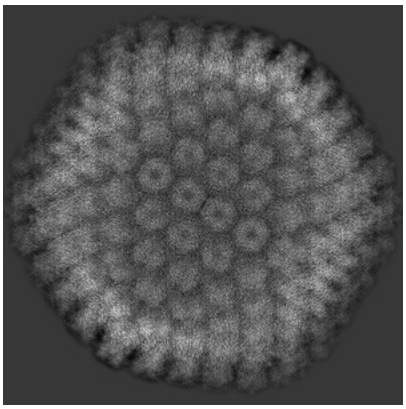
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

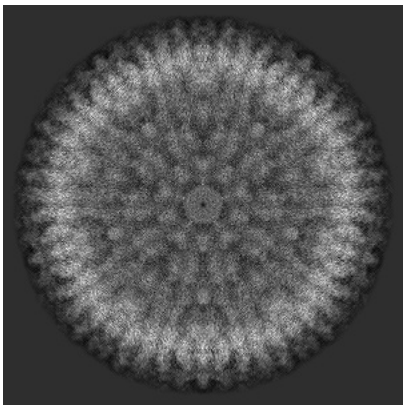
6.1.1 Primary map



X

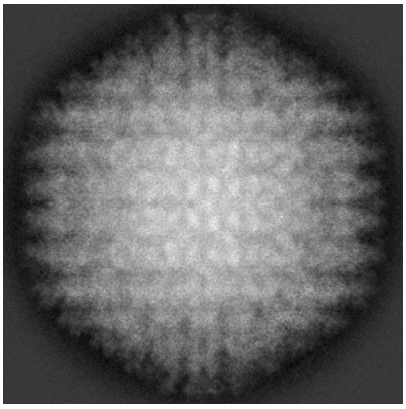


Y

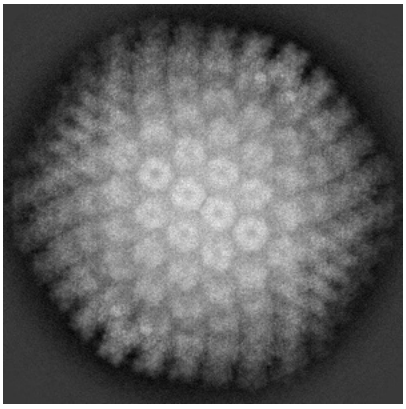


Z

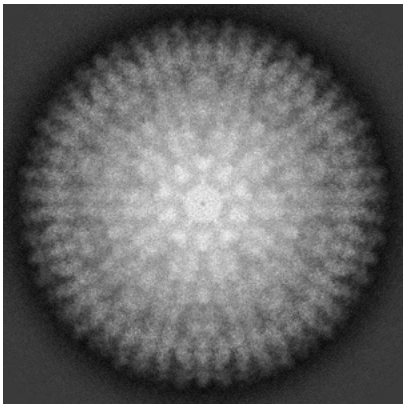
6.1.2 Raw map



X



Y

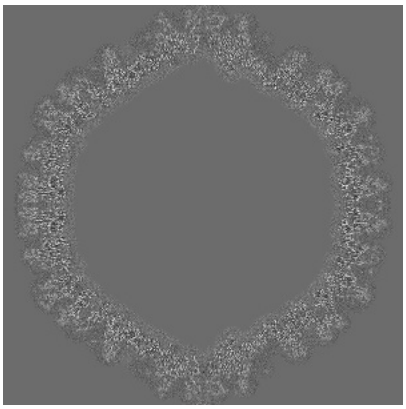


Z

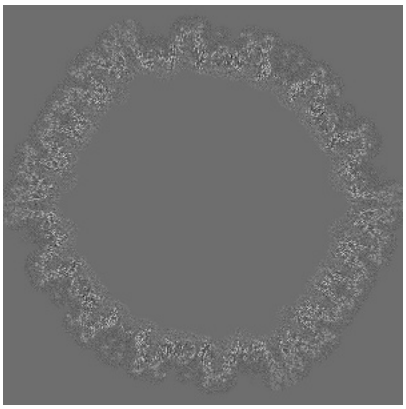
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

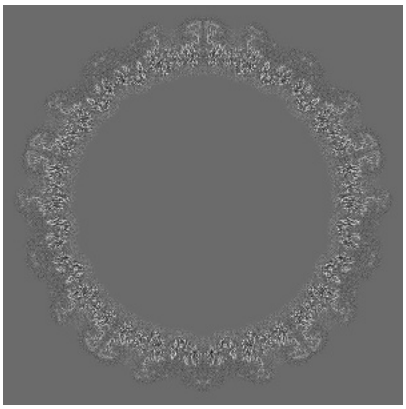
6.2.1 Primary map



X Index: 450

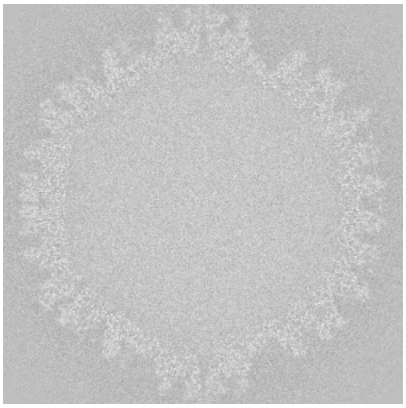


Y Index: 450

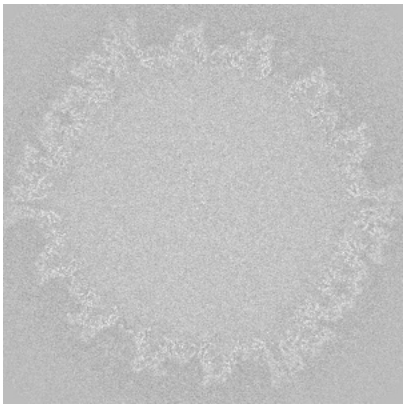


Z Index: 450

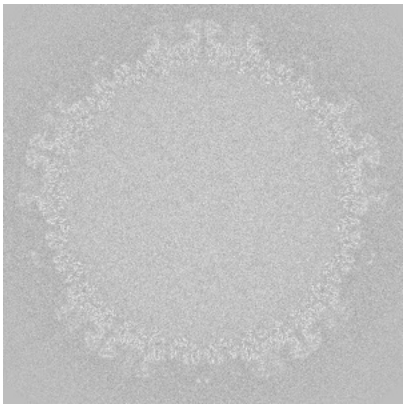
6.2.2 Raw map



X Index: 450



Y Index: 450

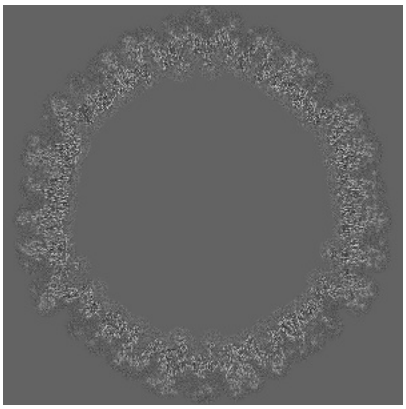


Z Index: 450

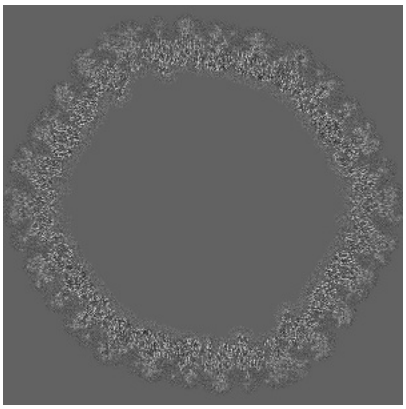
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

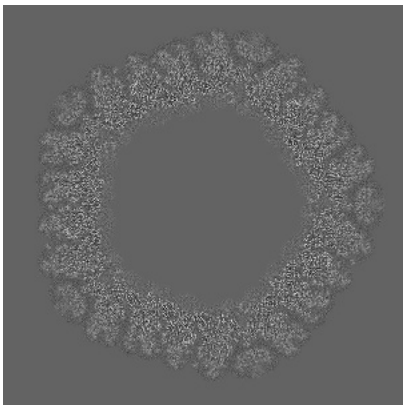
6.3.1 Primary map



X Index: 492

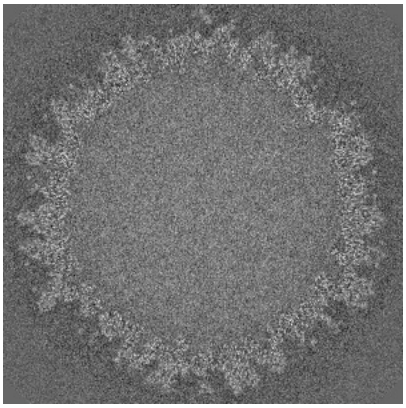


Y Index: 431

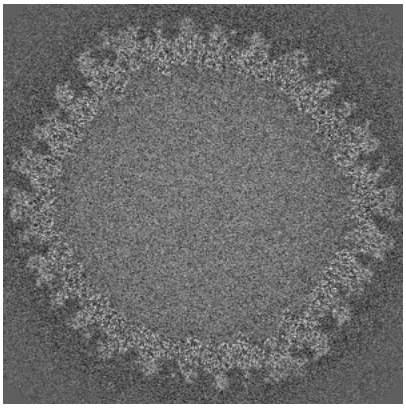


Z Index: 249

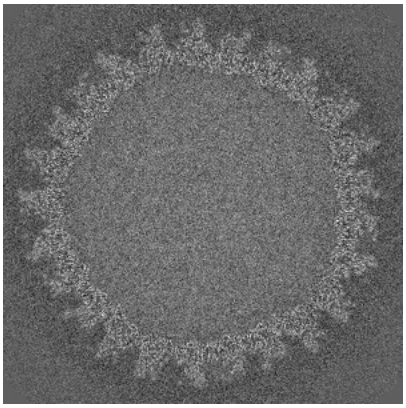
6.3.2 Raw map



X Index: 490



Y Index: 431

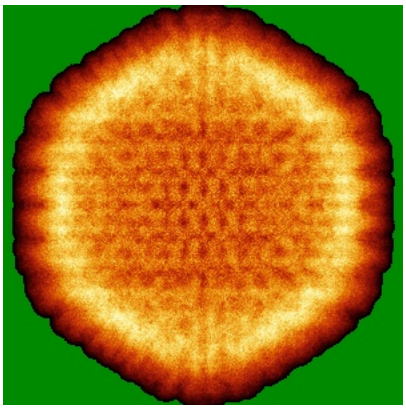


Z Index: 504

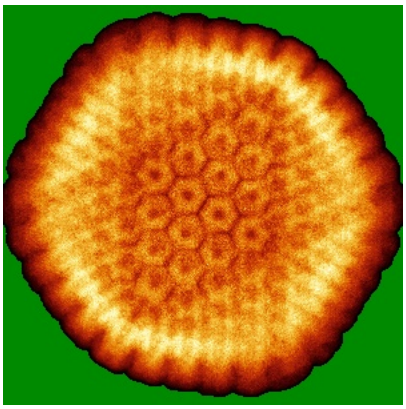
The images above show the largest variance slices of the map in three orthogonal directions.

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

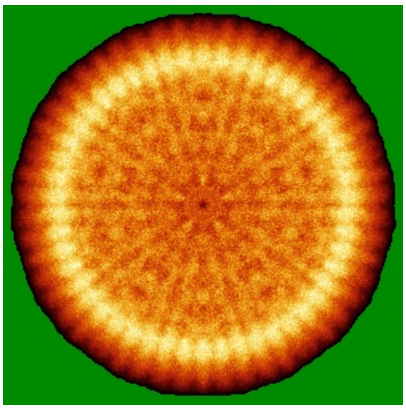
6.4.1 Primary map



X

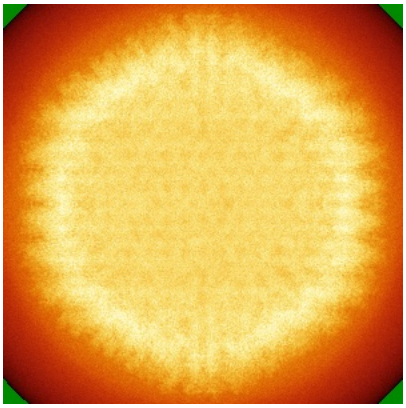


Y

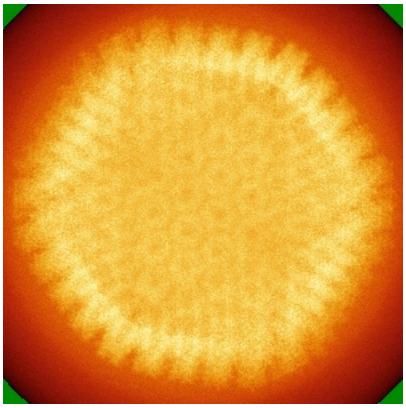


Z

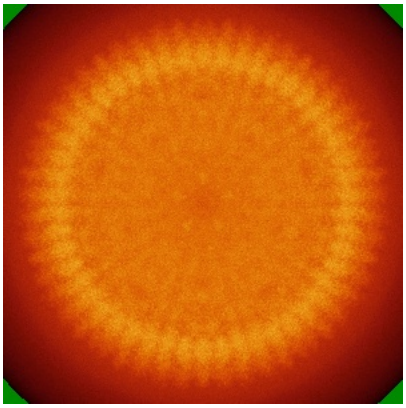
6.4.2 Raw map



X



Y

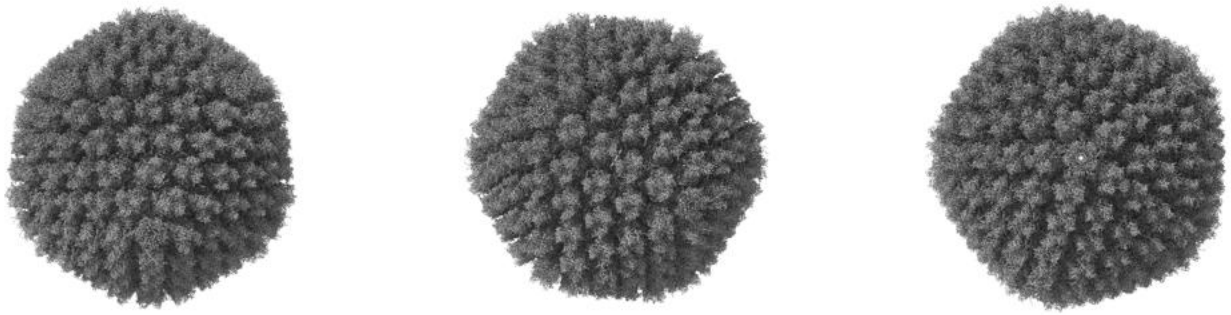


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.015. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

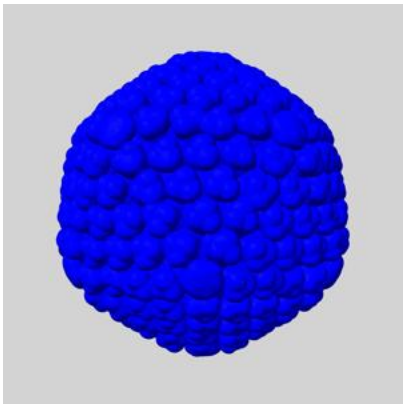
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

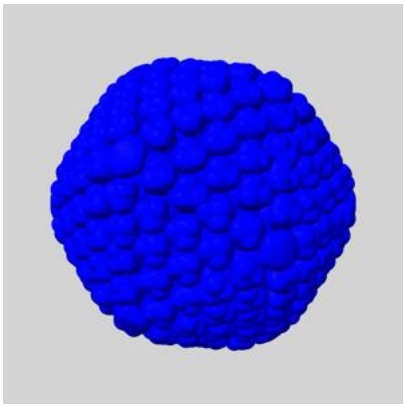
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

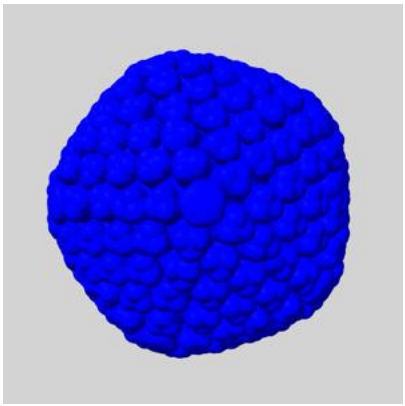
6.6.1 emd_11108_msk_1.map



X



Y

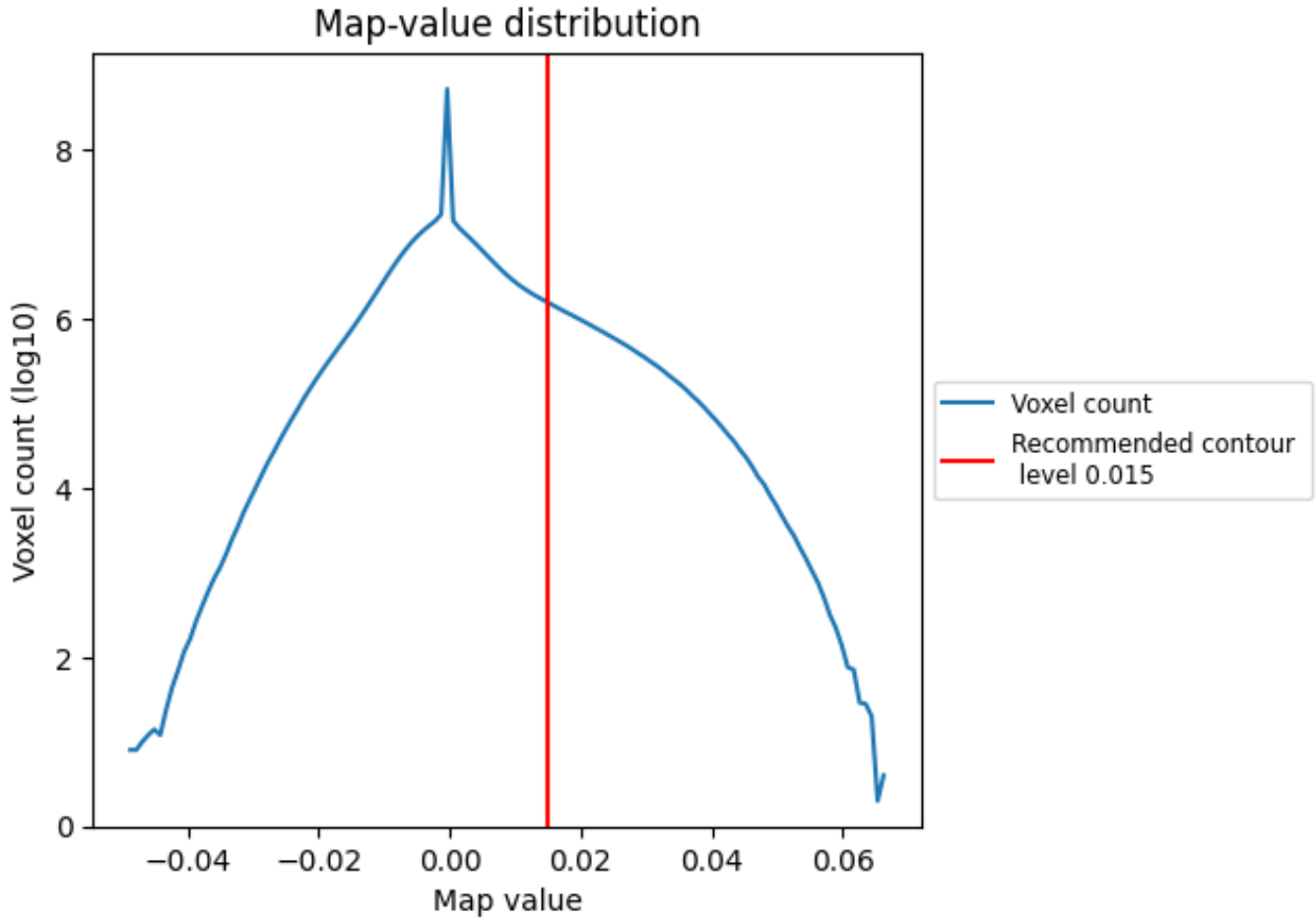


Z

7 Map analysis

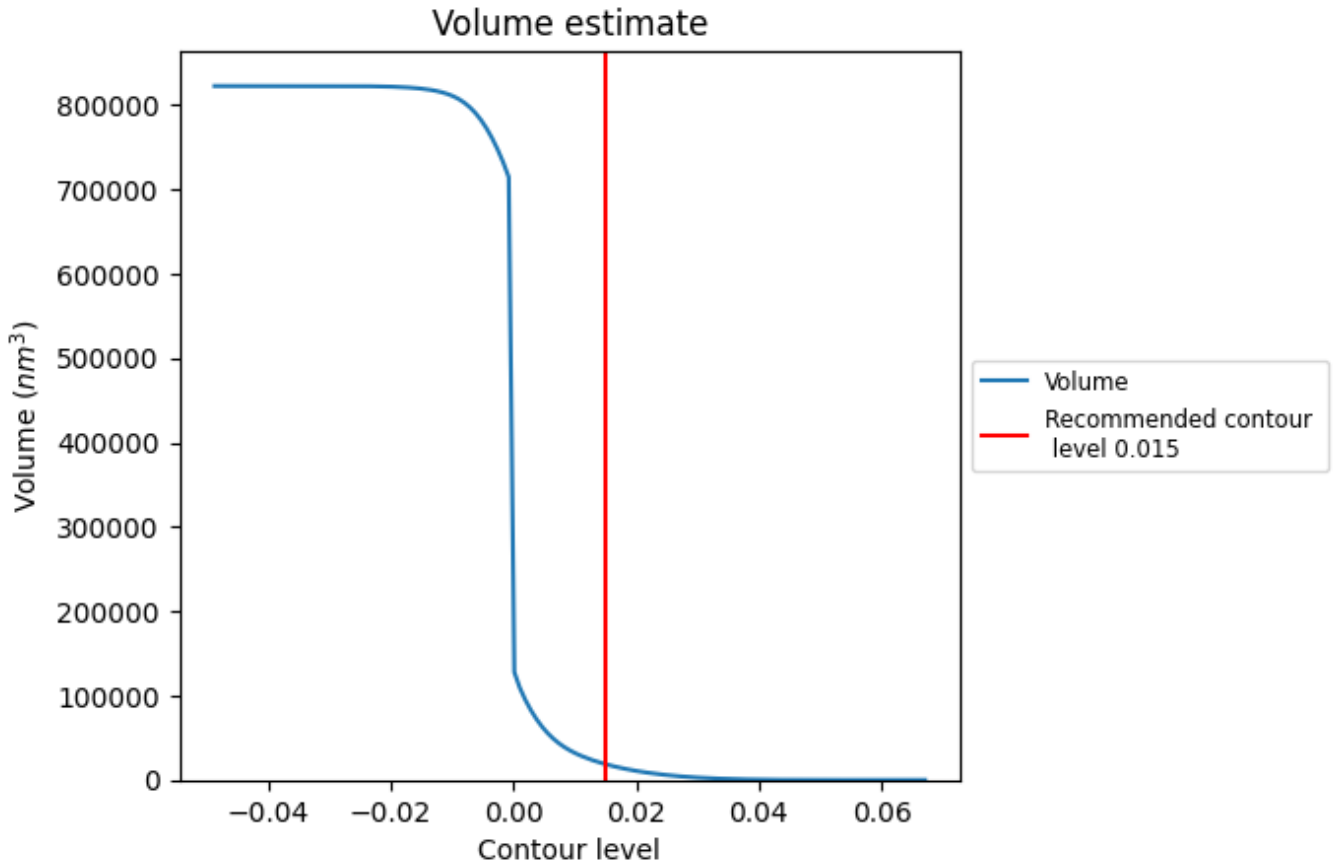
This section contains the results of statistical analysis of the map.

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.

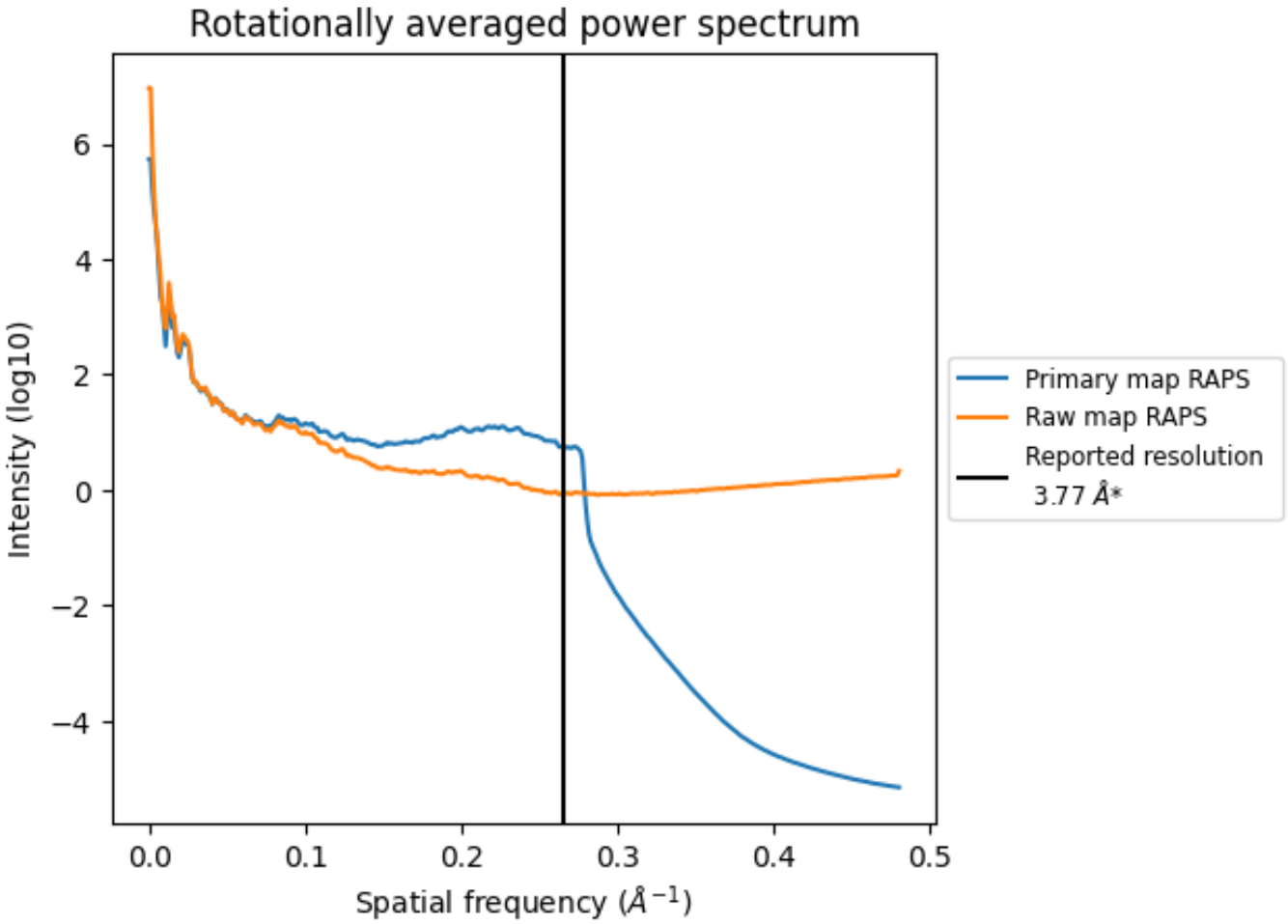
7.2 Volume estimate



The volume at the recommended contour level is 18776 nm^3; this corresponds to an approximate mass of 16961 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)

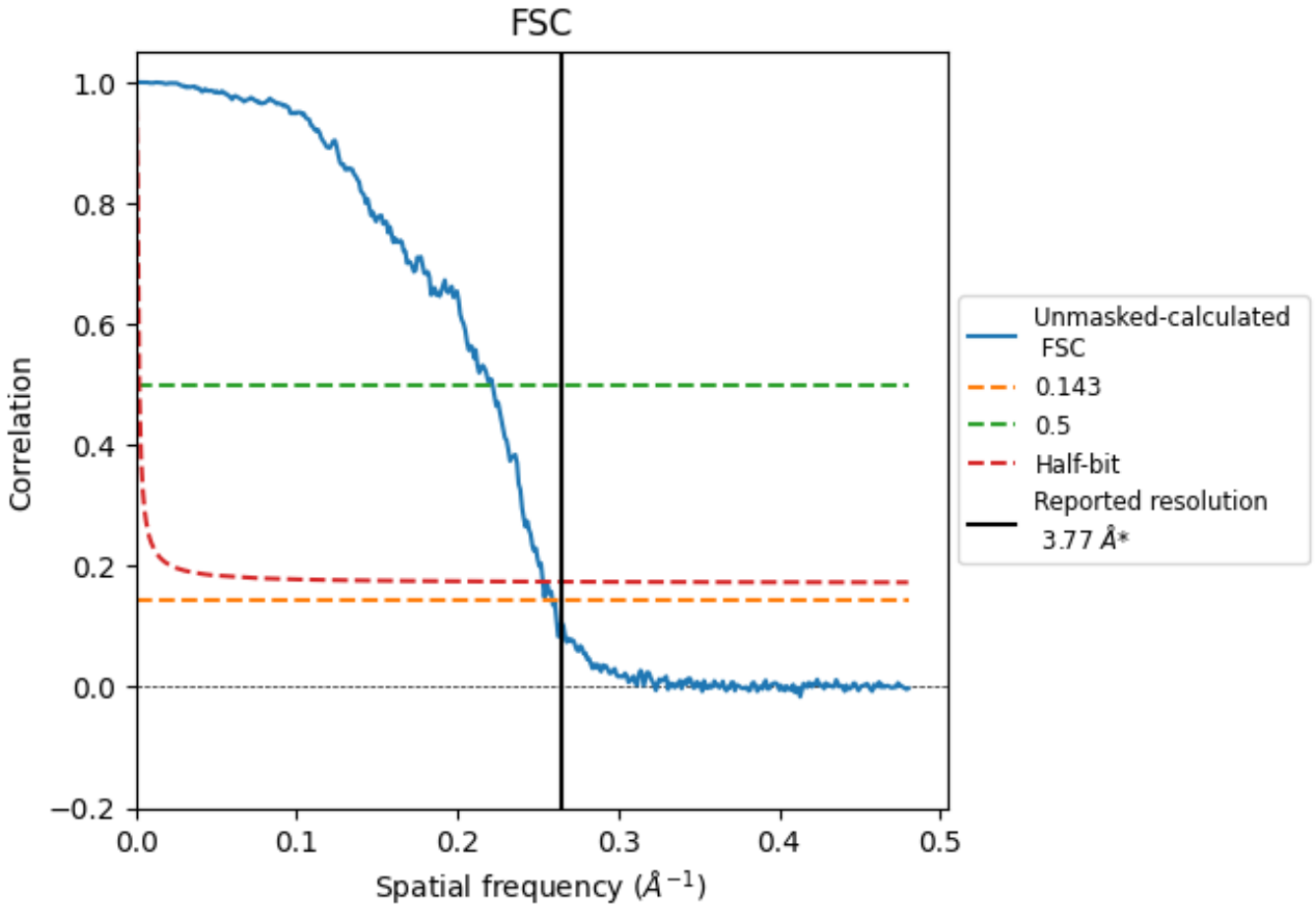


*Reported resolution corresponds to spatial frequency of 0.265 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.265 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.77	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.86	4.51	3.95

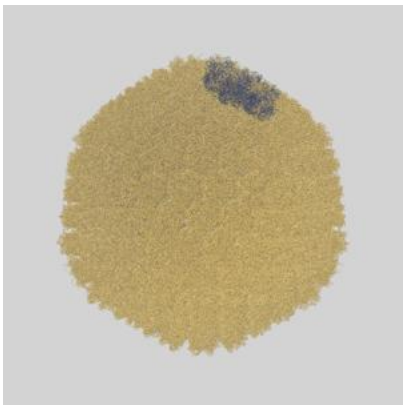
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit

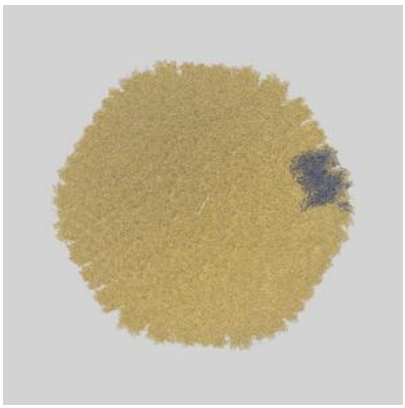
This section contains information regarding the fit between EMDB map EMD-11108 and PDB model 6Z7N. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlays

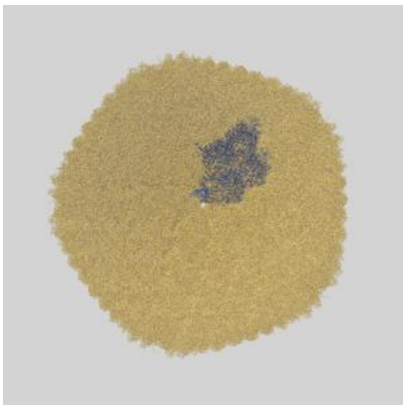
9.1.1 Map-model overlay



X

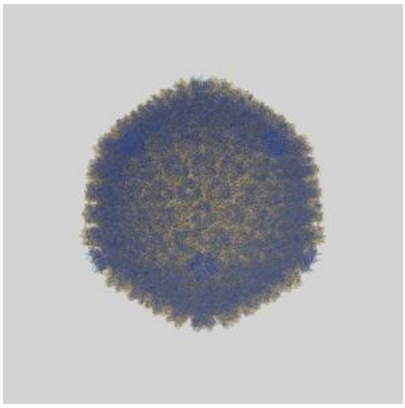


Y

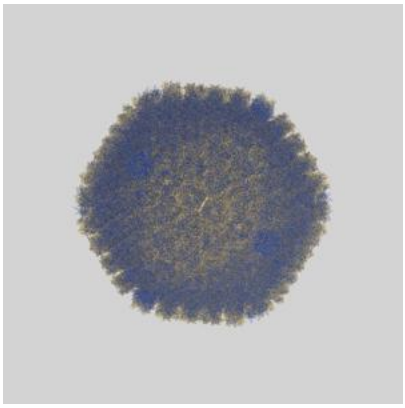


Z

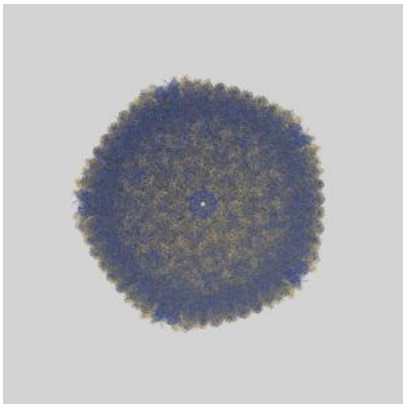
9.1.2 Map-model assembly overlay



X



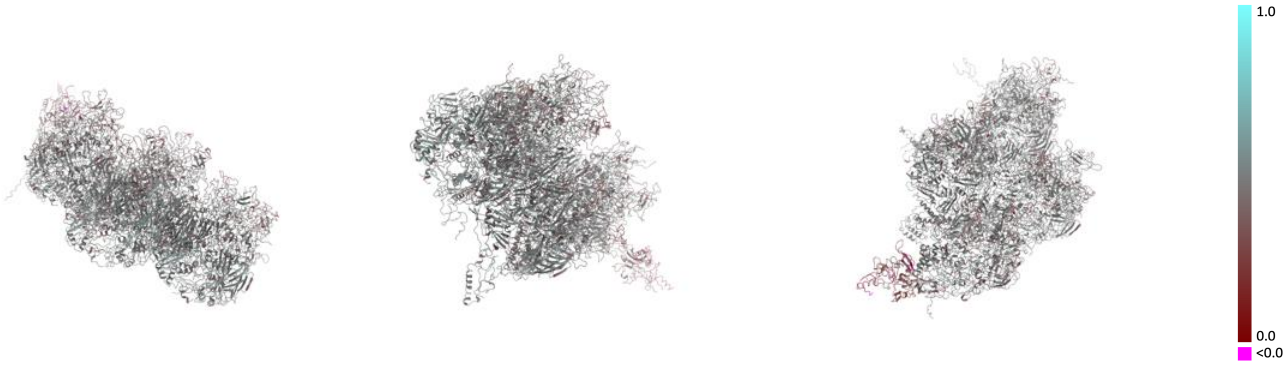
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.015 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

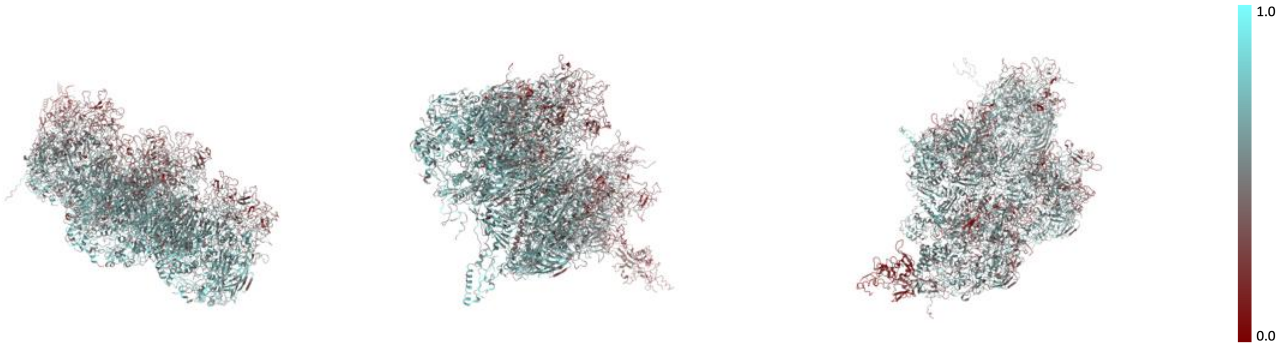
9.2 Q-score mapped to coordinate model



X Y Z

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

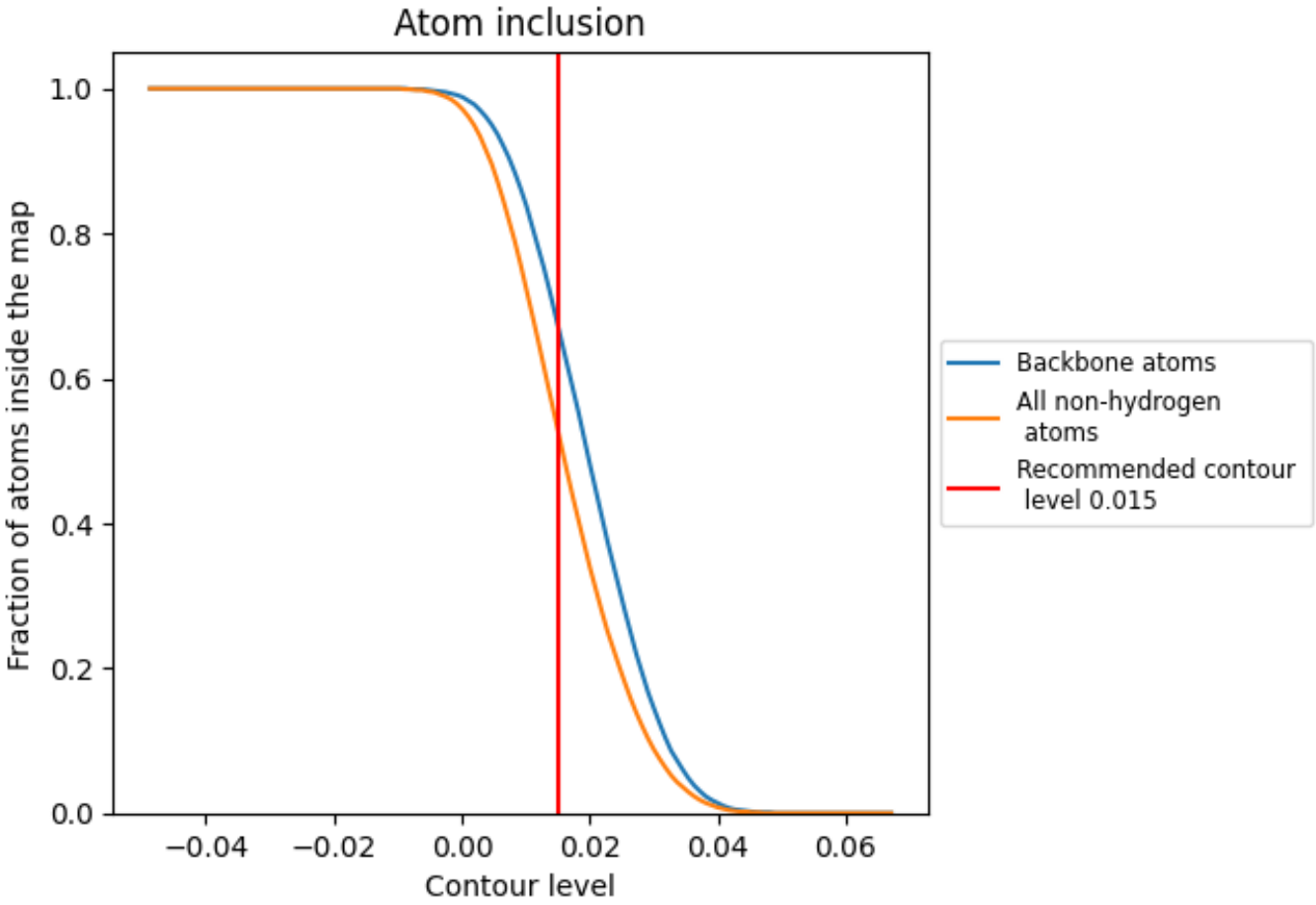
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.015).

9.4 Atom inclusion (i)



At the recommended contour level, 67% of all backbone atoms, 53% 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 (0.015) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5290	0.4610
0	0.2440	0.4680
1	0.6220	0.5020
2	0.4350	0.4980
3	0.3900	0.4510
4	0.5000	0.4060
5	0.5420	0.4650
6	0.6150	0.5350
7	0.5770	0.4950
8	0.5100	0.4680
9	0.5770	0.5150
A	0.5140	0.4630
B	0.4800	0.4610
C	0.5110	0.4660
D	0.5410	0.4650
E	0.5330	0.4640
F	0.5610	0.4760
G	0.5750	0.4760
H	0.5610	0.4720
I	0.5580	0.4650
J	0.5380	0.4650
K	0.5430	0.4590
L	0.5490	0.4680
M	0.2800	0.3230
N	0.5770	0.4360
O	0.4840	0.4540
P	0.4560	0.4440
Q	0.4710	0.4460
R	0.5000	0.4750
S	0.5270	0.4830
T	0.5990	0.4750
U	0.6330	0.4950
V	0.7800	0.5380
W	0.7780	0.4850
X	0.0000	0.0520

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
Y	0.6000	0.5160
Z	0.5780	0.4700