



Full wwPDB EM Validation Report ⓘ

Mar 26, 2026 – 07:33 PM UTC

PDB ID : 1MHS / pdb_00001mhs
Title : Model of Neurospora crassa proton ATPase
Authors : Kuhlbrandt, W.
Deposited on : 2002-08-21
Resolution : 8.00 Å(reported)
Based on initial model : ?

This is a Full wwPDB EM Validation Report for a publicly released PDB/EMDB 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:

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

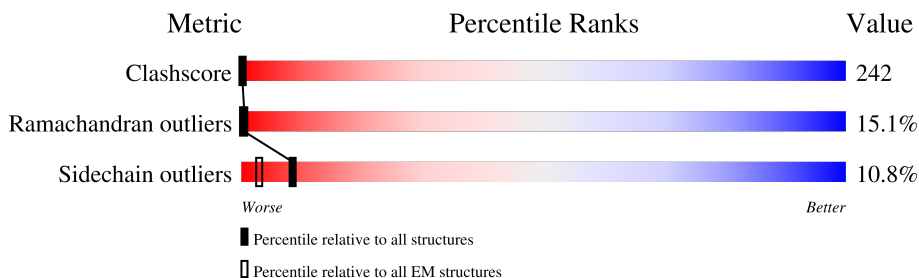
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON CRYSTALLOGRAPHY

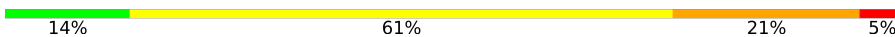
The reported resolution of this entry is 8.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

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

Mol	Chain	Length	Quality of chain
1	A	920	
1	B	920	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 14082 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.

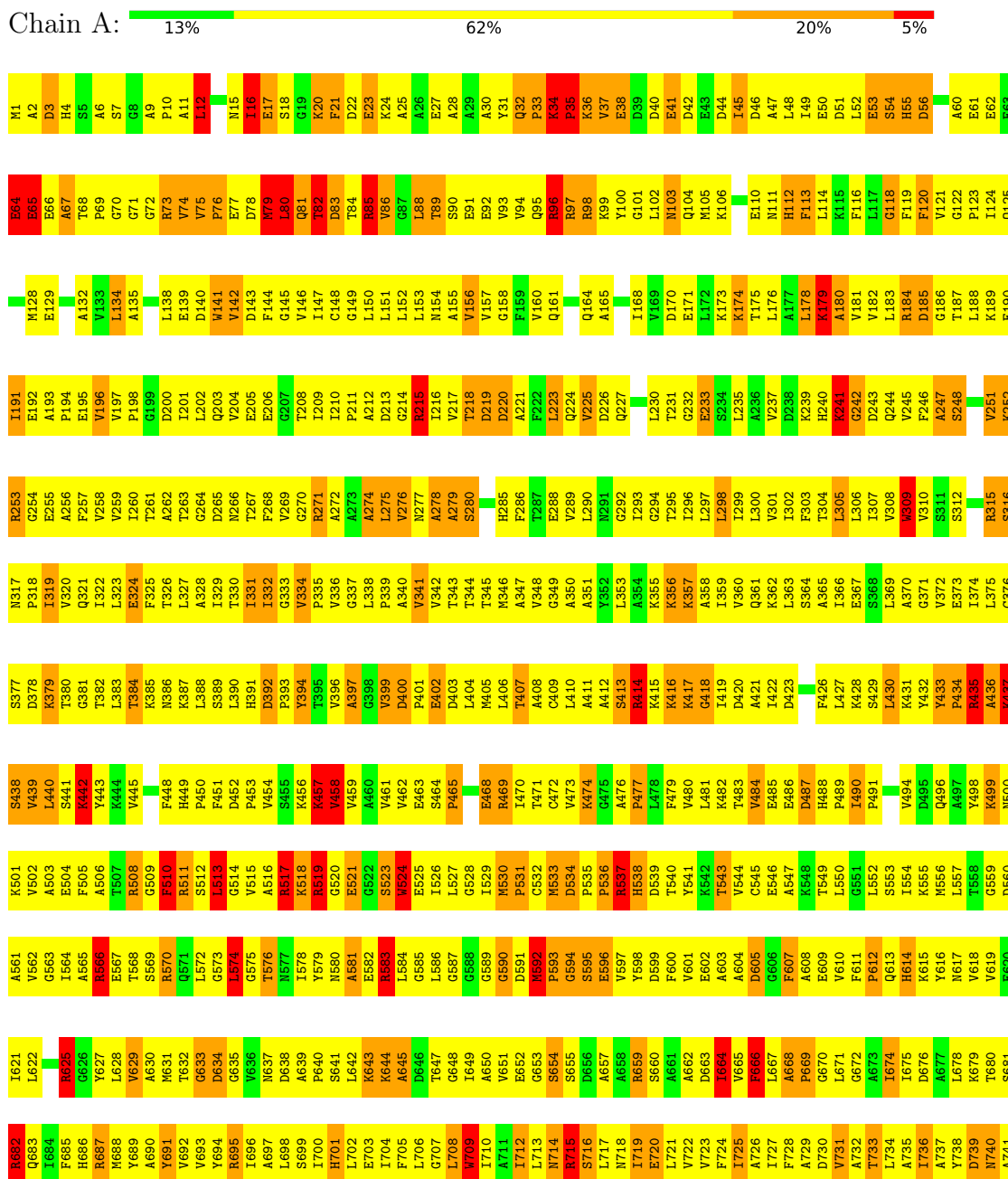
- Molecule 1 is a protein called Plasma Membrane ATPase.

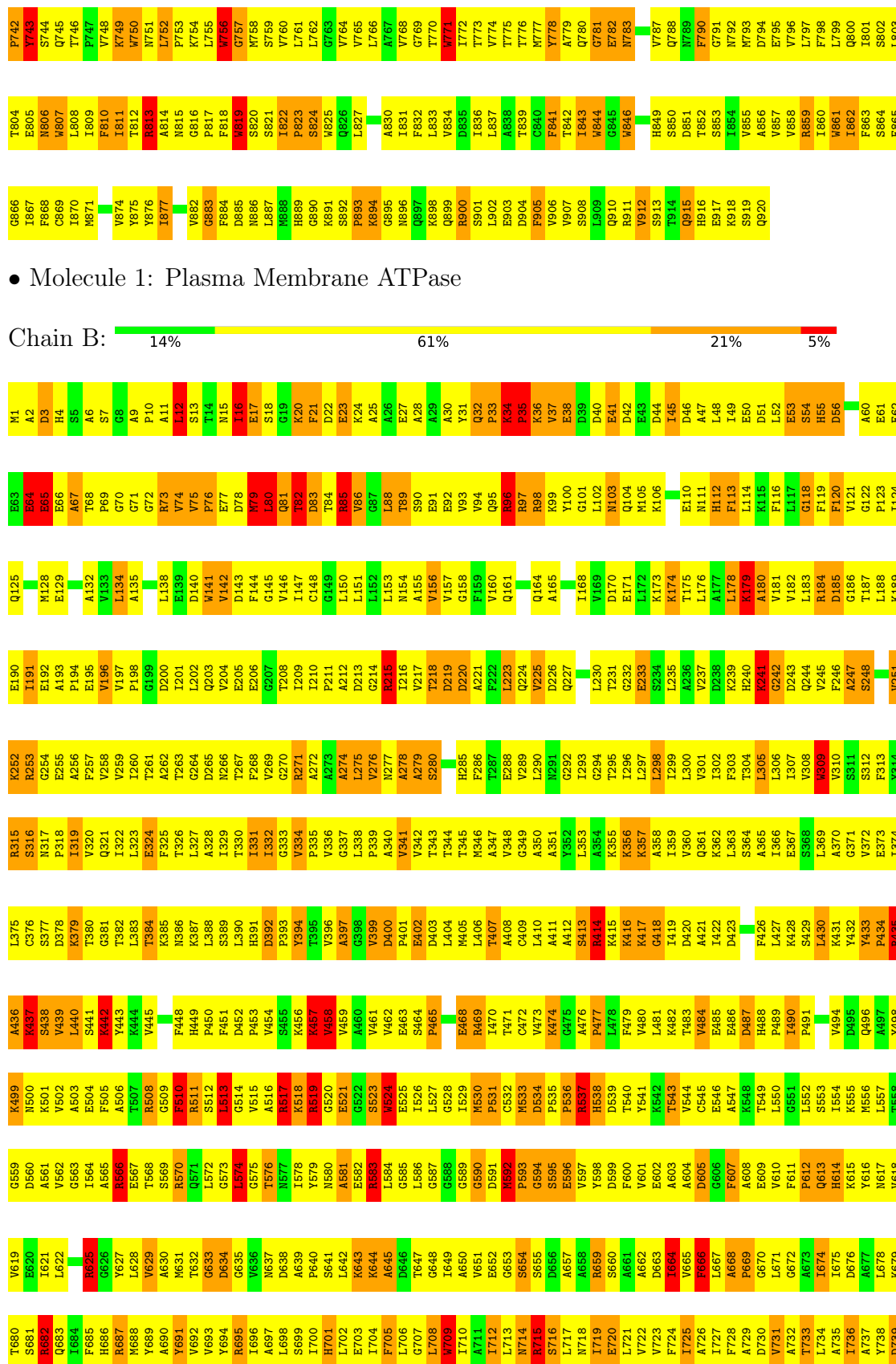
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	920	Total	C	N	O	S	0	0
			7041	4518	1166	1332	25		
1	B	920	Total	C	N	O	S	0	0
			7041	4518	1166	1332	25		

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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: Plasma Membrane ATPase





N740	A741	P742	Y743	S744	Q745	T746	F747	V748	K749	W750	N751	L752	P753	K754	L755	W756	G757	M758	S759	V760	L761	L762	G763	V764	V765	L766	A767	V768	G769	T770	W771	I772	T773	V774	T775	T776	M777	Y778	A779	Q780	G781	E782	N783		I786	V787	Q788	W789	F790	G791	N792	M793	D794	E795	V796	L797	F798	L799	Q800
I801	S802	L803	T804	E805	N806	W807	L808	I809	F810	I811	T812	R813	A814	N815	G816	P817	F818	W819	S820	S821	I822	P823	S824	W825	Q826	L827		A830	I831	F832	L833	V834	D835	I836	L837	A838	T839	G840	F841	T842	I843	W844	G845	W846	F847	E848	H849	S850	D851	T852	S853		A856	V857	V858	R859	I860	I862	
F863	S864	F865	G866	I867	F868	C869	I870	M871		V874	Y875	Y876	I877		V882	G883	F884	D885	N886	L887	M888	H889	G890	K891	S892	F893	K894	G895	N896	G897	K898	Q899	R900	S901	L902	E903	D904	F905	V906	V907	S908	L909	Q910	R911	V912	S913	T914	Q915	H916	E917	K918	S919	Q920						

4 Data and refinement statistics

Xtriage (Phenix) and EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 3 2 1	Depositor
Cell constants a, b, c, α , β , γ	167.00Å 167.00Å 250.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	(Not available) – 8.00	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-8.00)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	unknown	Depositor
R, R_{free}	(Not available) , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	14082	wwPDB-VP
Average B, all atoms (Å ²)	4.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.00	21/7181 (0.3%)	1.43	60/9748 (0.6%)
1	B	1.00	21/7181 (0.3%)	1.43	62/9748 (0.6%)
All	All	1.00	42/14362 (0.3%)	1.43	122/19496 (0.6%)

All (42) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	877	ILE	N-CA	6.43	1.54	1.46
1	B	877	ILE	N-CA	6.42	1.54	1.46
1	A	524	TRP	NE1-CE2	-5.96	1.30	1.37
1	B	524	TRP	NE1-CE2	-5.94	1.30	1.37
1	B	574	LEU	C-N	-5.70	1.30	1.33
1	A	574	LEU	C-N	-5.69	1.30	1.33
1	B	458	VAL	C-N	-5.65	1.30	1.33
1	A	458	VAL	C-N	-5.64	1.30	1.33
1	B	513	LEU	C-N	-5.61	1.25	1.33
1	A	513	LEU	C-N	-5.57	1.25	1.33
1	A	844	TRP	NE1-CE2	-5.54	1.31	1.37
1	B	844	TRP	NE1-CE2	-5.54	1.31	1.37
1	A	771	TRP	NE1-CE2	-5.47	1.31	1.37
1	B	771	TRP	NE1-CE2	-5.43	1.31	1.37
1	B	309	TRP	NE1-CE2	-5.41	1.31	1.37
1	A	756	TRP	NE1-CE2	-5.40	1.31	1.37
1	B	709	TRP	NE1-CE2	-5.39	1.31	1.37
1	B	756	TRP	NE1-CE2	-5.38	1.31	1.37
1	A	35	PRO	C-N	5.38	1.41	1.33
1	B	35	PRO	C-N	5.38	1.41	1.33
1	A	709	TRP	NE1-CE2	-5.37	1.31	1.37
1	A	825	TRP	NE1-CE2	-5.35	1.31	1.37
1	A	309	TRP	NE1-CE2	-5.34	1.31	1.37
1	B	846	TRP	NE1-CE2	-5.34	1.31	1.37
1	A	877	ILE	CA-C	5.32	1.59	1.52
1	A	846	TRP	NE1-CE2	-5.31	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	877	ILE	CA-C	5.31	1.59	1.52
1	B	825	TRP	NE1-CE2	-5.29	1.31	1.37
1	B	807	TRP	NE1-CE2	-5.28	1.31	1.37
1	A	141	TRP	NE1-CE2	-5.28	1.31	1.37
1	A	819	TRP	NE1-CE2	-5.27	1.31	1.37
1	B	819	TRP	NE1-CE2	-5.27	1.31	1.37
1	B	861	TRP	NE1-CE2	-5.25	1.31	1.37
1	A	807	TRP	NE1-CE2	-5.25	1.31	1.37
1	A	750	TRP	NE1-CE2	-5.24	1.31	1.37
1	B	750	TRP	NE1-CE2	-5.24	1.31	1.37
1	A	876	TYR	CA-C	5.23	1.59	1.52
1	B	141	TRP	NE1-CE2	-5.23	1.31	1.37
1	A	861	TRP	NE1-CE2	-5.22	1.31	1.37
1	B	876	TYR	CA-C	5.21	1.59	1.52
1	A	35	PRO	C-O	5.11	1.30	1.24
1	B	35	PRO	C-O	5.10	1.30	1.24

All (122) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	915	GLN	O-C-N	8.62	131.30	122.08
1	A	915	GLN	O-C-N	8.61	131.29	122.08
1	A	34	LYS	CA-C-N	7.95	129.78	119.84
1	A	34	LYS	C-N-CA	7.95	129.78	119.84
1	B	34	LYS	CA-C-N	7.94	129.77	119.84
1	B	34	LYS	C-N-CA	7.94	129.77	119.84
1	A	80	LEU	N-CA-C	-6.83	104.42	112.89
1	B	80	LEU	N-CA-C	-6.83	104.42	112.89
1	B	437	LYS	O-C-N	6.82	131.66	122.59
1	A	437	LYS	O-C-N	6.80	131.63	122.59
1	A	806	ASN	O-C-N	6.68	128.95	122.07
1	A	33	PRO	CB-CA-C	-6.67	100.56	111.56
1	B	33	PRO	CB-CA-C	-6.67	100.56	111.56
1	B	806	ASN	O-C-N	6.66	128.93	122.07
1	A	811	ILE	N-CA-C	-6.64	106.05	112.29
1	B	811	ILE	N-CA-C	-6.59	106.10	112.29
1	B	629	VAL	O-C-N	6.36	130.53	122.57
1	A	629	VAL	O-C-N	6.33	130.49	122.57
1	A	178	LEU	O-C-N	6.26	130.49	123.48
1	A	844	TRP	O-C-N	6.25	130.35	123.22
1	B	844	TRP	O-C-N	6.25	130.34	123.22
1	B	178	LEU	O-C-N	6.24	130.47	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	666	PHE	CB-CA-C	-6.14	100.95	110.78
1	B	666	PHE	CB-CA-C	-6.13	100.96	110.78
1	A	742	PRO	O-C-N	6.13	129.10	122.17
1	B	742	PRO	O-C-N	6.13	129.09	122.17
1	B	79	MET	O-C-N	6.03	130.61	122.59
1	A	79	MET	O-C-N	6.02	130.59	122.59
1	B	786	ILE	CB-CA-C	-5.90	104.45	110.88
1	B	915	GLN	CA-C-N	5.80	128.38	120.54
1	B	915	GLN	C-N-CA	5.80	128.38	120.54
1	A	915	GLN	CA-C-N	5.80	128.37	120.54
1	A	915	GLN	C-N-CA	5.80	128.37	120.54
1	B	33	PRO	O-C-N	5.80	130.47	122.64
1	A	33	PRO	O-C-N	5.79	130.46	122.64
1	A	64	GLU	O-C-N	5.78	130.27	122.59
1	B	3	ASP	O-C-N	5.76	128.79	122.11
1	B	64	GLU	O-C-N	5.76	130.25	122.59
1	A	3	ASP	O-C-N	5.75	128.78	122.11
1	B	893	PRO	O-C-N	5.69	129.18	122.98
1	A	537	ARG	O-C-N	5.66	130.12	122.59
1	A	893	PRO	O-C-N	5.66	129.15	122.98
1	B	537	ARG	O-C-N	5.66	130.11	122.59
1	A	695	ARG	NE-CZ-NH2	5.52	124.17	119.20
1	B	782	GLU	O-C-N	5.51	129.92	122.59
1	B	695	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	B	877	ILE	N-CA-C	5.48	120.73	109.34
1	A	782	GLU	O-C-N	5.47	129.87	122.59
1	A	877	ILE	N-CA-C	5.47	120.71	109.34
1	A	813	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	B	442	LYS	O-C-N	5.44	129.82	122.59
1	B	570	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	B	813	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	B	566	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	A	414	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	B	414	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	A	537	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	A	566	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	A	442	LYS	O-C-N	5.42	129.79	122.59
1	A	570	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	A	811	ILE	O-C-N	5.41	126.96	122.09
1	B	625	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	B	537	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	A	625	ARG	NE-CZ-NH2	5.40	124.06	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	96	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	A	435	ARG	NE-CZ-NH2	5.38	124.05	119.20
1	B	469	ARG	NE-CZ-NH2	5.38	124.05	119.20
1	B	811	ILE	O-C-N	5.38	126.93	122.09
1	B	73	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	A	519	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	B	96	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	B	435	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	B	654	SER	CB-CA-C	-5.37	107.68	114.40
1	B	98	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	B	356	LYS	CB-CA-C	-5.36	103.90	112.05
1	A	315	ARG	NE-CZ-NH2	5.36	124.02	119.20
1	A	184	ARG	NE-CZ-NH2	5.36	124.02	119.20
1	B	900	ARG	NE-CZ-NH2	5.35	124.02	119.20
1	B	184	ARG	NE-CZ-NH2	5.35	124.01	119.20
1	A	253	ARG	NE-CZ-NH2	5.35	124.01	119.20
1	A	356	LYS	CB-CA-C	-5.35	103.92	112.05
1	B	253	ARG	NE-CZ-NH2	5.35	124.01	119.20
1	A	98	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	A	900	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	A	469	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	A	654	SER	CB-CA-C	-5.34	107.73	114.40
1	B	315	ARG	NE-CZ-NH2	5.34	124.00	119.20
1	A	73	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	B	215	ARG	NE-CZ-NH2	5.33	123.99	119.20
1	B	519	ARG	NE-CZ-NH2	5.33	123.99	119.20
1	B	583	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	A	215	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	A	659	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	A	85	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	B	659	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	B	271	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	A	583	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	B	687	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	A	511	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	B	85	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	A	271	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	A	687	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	A	715	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	A	508	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	B	508	ARG	NE-CZ-NH2	5.29	123.96	119.20
1	B	511	ARG	NE-CZ-NH2	5.28	123.95	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	715	ARG	NE-CZ-NH2	5.28	123.95	119.20
1	A	97	ARG	NE-CZ-NH2	5.27	123.94	119.20
1	A	120	PHE	N-CA-C	-5.27	106.00	112.90
1	B	716	SER	O-C-N	5.26	128.62	122.99
1	A	911	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	B	97	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	A	716	SER	O-C-N	5.25	128.60	122.99
1	B	911	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	B	120	PHE	N-CA-C	-5.24	106.03	112.90
1	A	682	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	A	517	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	B	859	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	A	859	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	B	682	ARG	NE-CZ-NH2	5.21	123.89	119.20
1	B	517	ARG	NE-CZ-NH2	5.21	123.89	119.20
1	B	705	PHE	CA-CB-CG	-5.00	108.80	113.80

There are no chirality outliers.

There are no planarity outliers.

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	A	7041	0	7087	3438	43
1	B	7041	0	7087	3450	45
All	All	14082	0	14174	6838	61

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 242.

All (6838) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:859:ARG:HG2	1:B:309:TRP:CZ2	1.28	1.69
1:A:510:PHE:CZ	1:A:512:SER:HB3	1.28	1.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:810:PHE:CE2	1:B:823:PRO:HD2	1.22	1.64
1:A:510:PHE:CD1	1:A:531:PRO:HB3	1.17	1.64
1:A:74:VAL:CG2	1:A:76:PRO:HD2	1.26	1.63
1:A:305:LEU:HD13	1:A:329:ILE:CB	1.19	1.63
1:B:510:PHE:CD1	1:B:531:PRO:HB3	1.17	1.63
1:B:510:PHE:CZ	1:B:512:SER:HB3	1.28	1.63
1:A:456:LYS:HE2	1:A:476:ALA:CB	1.29	1.63
1:B:74:VAL:CG2	1:B:76:PRO:HD2	1.26	1.63
1:B:808:LEU:HD12	1:B:811:ILE:CD1	1.27	1.62
1:B:246:PHE:CZ	1:B:248:SER:HB3	1.14	1.62
1:B:309:TRP:CZ3	1:B:310:VAL:HB	1.34	1.62
1:A:810:PHE:CE2	1:A:823:PRO:HD2	1.22	1.61
1:A:736:ILE:CD1	1:A:827:LEU:HD23	1.16	1.61
1:B:305:LEU:HD13	1:B:329:ILE:CB	1.19	1.61
1:A:808:LEU:HD12	1:A:811:ILE:CD1	1.27	1.61
1:A:803:LEU:HD23	1:A:860:ILE:CG2	1.26	1.60
1:B:399:VAL:HB	1:B:404:LEU:CD2	1.31	1.60
1:B:694:TYR:HB2	1:B:812:THR:CG2	1.26	1.60
1:A:289:VAL:CG1	1:A:756:TRP:HB2	1.12	1.60
1:B:456:LYS:HE2	1:B:476:ALA:CB	1.29	1.59
1:B:289:VAL:CG1	1:B:756:TRP:HB2	1.12	1.58
1:B:803:LEU:HD23	1:B:860:ILE:CG2	1.26	1.58
1:A:309:TRP:CZ3	1:A:310:VAL:HB	1.34	1.58
1:A:808:LEU:CD1	1:A:811:ILE:HD11	1.11	1.58
1:A:246:PHE:CZ	1:A:248:SER:HB3	1.14	1.57
1:A:694:TYR:HB2	1:A:812:THR:CG2	1.26	1.56
1:B:293:ILE:CD1	1:B:756:TRP:CZ3	1.87	1.56
1:A:293:ILE:HD12	1:A:756:TRP:CE3	1.41	1.56
1:A:399:VAL:HB	1:A:404:LEU:CD2	1.31	1.56
1:A:399:VAL:HG12	1:A:401:PRO:CG	1.30	1.56
1:B:332:ILE:HD13	1:B:702:LEU:CD2	1.36	1.55
1:B:293:ILE:HD12	1:B:756:TRP:CE3	1.41	1.55
1:B:808:LEU:CD1	1:B:811:ILE:HD11	1.11	1.54
1:B:736:ILE:CD1	1:B:827:LEU:HD23	1.16	1.53
1:A:689:TYR:CE1	1:A:761:LEU:HD22	1.42	1.53
1:B:390:LEU:HD23	1:B:532:CYS:CB	1.39	1.53
1:B:591:ASP:HA	1:B:592:MET:CE	1.37	1.53
1:A:591:ASP:HA	1:A:592:MET:CE	1.37	1.52
1:B:415:LYS:HE2	1:B:511:ARG:CD	1.39	1.52
1:A:293:ILE:CD1	1:A:756:TRP:CZ3	1.87	1.52
1:A:332:ILE:HD13	1:A:702:LEU:CD2	1.36	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:LYS:HE2	1:A:511:ARG:CD	1.39	1.52
1:A:390:LEU:HD23	1:A:532:CYS:CB	1.39	1.52
1:A:28:ALA:CB	1:A:170:ASP:CB	1.88	1.51
1:B:28:ALA:CB	1:B:170:ASP:HB3	1.40	1.51
1:B:399:VAL:HG12	1:B:401:PRO:CD	1.40	1.51
1:B:399:VAL:HG12	1:B:401:PRO:CG	1.30	1.51
1:A:28:ALA:CB	1:A:170:ASP:HB3	1.40	1.50
1:A:399:VAL:HG12	1:A:401:PRO:CD	1.40	1.50
1:A:771:TRP:CD1	1:A:775:THR:HG21	1.45	1.50
1:A:289:VAL:HG12	1:A:756:TRP:CB	1.39	1.50
1:B:407:THR:C	1:B:527:LEU:HD13	1.37	1.50
1:B:771:TRP:CD1	1:B:775:THR:HG21	1.45	1.50
1:B:689:TYR:CE1	1:B:761:LEU:HD22	1.42	1.49
1:A:70:GLY:HA3	1:A:268:PHE:CZ	1.44	1.49
1:B:289:VAL:HG12	1:B:756:TRP:CB	1.39	1.49
1:A:325:PHE:CE2	1:A:706:LEU:HB3	1.46	1.49
1:A:146:VAL:CB	1:A:719:ILE:HG21	1.43	1.49
1:A:407:THR:C	1:A:527:LEU:HD13	1.37	1.49
1:A:374:ILE:CD1	1:A:553:SER:HB3	1.42	1.48
1:B:70:GLY:HA3	1:B:268:PHE:CZ	1.44	1.48
1:B:146:VAL:CB	1:B:719:ILE:HG21	1.43	1.48
1:B:28:ALA:CB	1:B:170:ASP:CB	1.88	1.48
1:A:694:TYR:CB	1:A:812:THR:HG21	1.41	1.47
1:B:325:PHE:CE2	1:B:706:LEU:HB3	1.46	1.47
1:B:374:ILE:CD1	1:B:553:SER:HB3	1.41	1.47
1:A:456:LYS:CE	1:A:476:ALA:HB2	1.39	1.47
1:B:456:LYS:CE	1:B:476:ALA:HB2	1.39	1.46
1:B:552:LEU:HD22	1:B:678:LEU:CD2	1.46	1.46
1:A:552:LEU:HD22	1:A:678:LEU:CD2	1.46	1.46
1:A:679:LYS:HG2	1:A:682:ARG:NH2	1.21	1.46
1:B:698:LEU:HD11	1:B:805:GLU:CG	1.46	1.46
1:A:312:SER:HB2	1:A:710:ILE:CG2	1.46	1.45
1:B:694:TYR:CB	1:B:812:THR:HG21	1.41	1.45
1:B:182:VAL:CG2	1:B:200:ASP:HB3	1.47	1.45
1:A:510:PHE:HD1	1:A:531:PRO:CB	1.28	1.45
1:A:652:GLU:HG3	1:A:667:LEU:CD1	1.46	1.44
1:A:70:GLY:HA3	1:A:268:PHE:CE1	1.51	1.44
1:A:407:THR:HG22	1:A:517:ARG:CB	1.47	1.44
1:B:518:LYS:HD3	1:B:523:SER:N	1.33	1.44
1:B:312:SER:HB2	1:B:710:ILE:CG2	1.46	1.43
1:A:698:LEU:HD11	1:A:805:GLU:CG	1.46	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:407:THR:HG22	1:B:517:ARG:CB	1.46	1.43
1:B:510:PHE:HD1	1:B:531:PRO:CB	1.28	1.43
1:B:600:PHE:CE1	1:B:907:VAL:CG2	2.02	1.43
1:B:652:GLU:HG3	1:B:667:LEU:CD1	1.46	1.43
1:B:543:THR:HG23	1:B:675:ILE:CG1	1.48	1.42
1:B:698:LEU:CD1	1:B:805:GLU:HG2	1.48	1.42
1:B:810:PHE:HE2	1:B:823:PRO:CD	1.31	1.42
1:A:518:LYS:HD3	1:A:523:SER:N	1.33	1.42
1:B:210:ILE:CG2	1:B:245:VAL:HG22	1.48	1.42
1:A:125:GLN:CG	1:A:151:LEU:HD22	1.49	1.41
1:A:210:ILE:CG2	1:A:245:VAL:HG22	1.48	1.41
1:B:70:GLY:HA3	1:B:268:PHE:CE1	1.51	1.41
1:B:125:GLN:CG	1:B:151:LEU:HD22	1.49	1.41
1:A:600:PHE:CE1	1:A:907:VAL:CG2	2.02	1.41
1:B:501:LYS:HG2	1:B:505:PHE:CE2	1.55	1.41
1:A:698:LEU:CD1	1:A:805:GLU:HG2	1.48	1.41
1:A:390:LEU:CD2	1:A:532:CYS:HB2	1.50	1.41
1:A:683:GLN:HG3	1:A:743:TYR:CE1	1.55	1.41
1:B:390:LEU:CD2	1:B:532:CYS:HB2	1.50	1.41
1:A:182:VAL:CG2	1:A:200:ASP:HB3	1.47	1.41
1:A:803:LEU:CD2	1:A:860:ILE:CG2	1.98	1.41
1:B:803:LEU:CD2	1:B:860:ILE:CG2	1.98	1.41
1:A:821:SER:C	1:A:823:PRO:HD3	1.45	1.40
1:B:683:GLN:HG3	1:B:743:TYR:CE1	1.56	1.40
1:B:821:SER:C	1:B:823:PRO:HD3	1.46	1.40
1:B:679:LYS:HG2	1:B:682:ARG:NH2	1.21	1.40
1:B:591:ASP:CA	1:B:592:MET:HE2	1.48	1.40
1:B:78:ASP:HA	1:B:81:GLN:CG	1.50	1.40
1:B:442:LYS:CG	1:B:443:TYR:N	1.81	1.40
1:A:78:ASP:HA	1:A:81:GLN:CG	1.50	1.39
1:B:74:VAL:CG2	1:B:76:PRO:CD	1.99	1.39
1:A:810:PHE:HE2	1:A:823:PRO:CD	1.31	1.39
1:A:230:LEU:HD22	1:A:268:PHE:CE2	1.58	1.39
1:A:591:ASP:CA	1:A:592:MET:HE2	1.48	1.39
1:B:451:PHE:HE1	1:B:611:PHE:CE2	1.41	1.39
1:A:484:VAL:CG2	1:A:526:ILE:HG23	1.51	1.39
1:A:501:LYS:HG2	1:A:505:PHE:CE2	1.55	1.39
1:A:543:THR:HG23	1:A:675:ILE:CG1	1.48	1.39
1:A:74:VAL:CG2	1:A:76:PRO:CD	1.99	1.38
1:A:415:LYS:HZ3	1:A:511:ARG:CG	1.35	1.38
1:B:16:ILE:HD11	1:B:667:LEU:CD1	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:230:LEU:HD22	1:B:268:PHE:CE2	1.58	1.38
1:A:146:VAL:HB	1:A:719:ILE:CG2	1.51	1.38
1:A:453:PRO:HB3	1:A:592:MET:CB	1.52	1.38
1:B:453:PRO:HB3	1:B:592:MET:CB	1.52	1.38
1:B:484:VAL:CG2	1:B:526:ILE:HG23	1.51	1.38
1:A:451:PHE:CE1	1:A:611:PHE:HE2	1.41	1.38
1:B:146:VAL:HB	1:B:719:ILE:CG2	1.51	1.38
1:B:451:PHE:CE1	1:B:611:PHE:HE2	1.41	1.38
1:A:451:PHE:HE1	1:A:611:PHE:CE2	1.41	1.38
1:B:246:PHE:CZ	1:B:248:SER:CB	2.07	1.37
1:B:274:ALA:C	1:B:275:LEU:HD12	1.48	1.37
1:B:591:ASP:OD1	1:B:592:MET:CE	1.73	1.37
1:A:16:ILE:HD11	1:A:667:LEU:CD1	1.53	1.36
1:B:415:LYS:HZ3	1:B:511:ARG:CG	1.36	1.36
1:A:246:PHE:CZ	1:A:248:SER:CB	2.07	1.36
1:B:289:VAL:CG1	1:B:756:TRP:CB	1.96	1.36
1:A:274:ALA:C	1:A:275:LEU:HD12	1.48	1.35
1:A:289:VAL:CG1	1:A:756:TRP:CB	1.96	1.35
1:A:216:ILE:HD12	1:A:243:ASP:CB	1.55	1.35
1:B:679:LYS:O	1:B:743:TYR:HE1	1.08	1.35
1:B:600:PHE:HE1	1:B:907:VAL:CG2	1.38	1.35
1:A:309:TRP:CE3	1:A:310:VAL:HB	1.61	1.35
1:B:24:LYS:CE	1:B:171:GLU:HB3	1.57	1.34
1:B:415:LYS:NZ	1:B:511:ARG:HG3	1.40	1.34
1:A:24:LYS:CE	1:A:171:GLU:HB3	1.58	1.34
1:B:442:LYS:CG	1:B:443:TYR:H	1.27	1.34
1:B:453:PRO:CB	1:B:592:MET:HB3	1.57	1.34
1:B:714:ASN:HB2	1:B:790:PHE:CE1	1.61	1.34
1:A:591:ASP:OD1	1:A:592:MET:CE	1.73	1.33
1:B:246:PHE:CE2	1:B:248:SER:HB3	1.63	1.33
1:B:309:TRP:CE3	1:B:310:VAL:HB	1.61	1.33
1:A:246:PHE:HD1	1:A:269:VAL:CG2	1.41	1.33
1:B:246:PHE:HD1	1:B:269:VAL:CG2	1.41	1.33
1:A:453:PRO:CB	1:A:592:MET:HB3	1.57	1.33
1:A:648:GLY:O	1:A:662:ALA:HB1	1.20	1.33
1:B:46:ASP:O	1:B:49:ILE:HG12	1.17	1.33
1:A:71:GLY:CA	1:A:230:LEU:HG	1.59	1.32
1:A:714:ASN:HB2	1:A:790:PHE:CE1	1.61	1.32
1:B:216:ILE:HD12	1:B:243:ASP:CB	1.55	1.32
1:A:80:LEU:H	1:A:80:LEU:CD2	1.40	1.32
1:A:246:PHE:CD1	1:A:269:VAL:HG23	1.65	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:LYS:NZ	1:A:511:ARG:HG3	1.40	1.32
1:B:88:LEU:HD13	1:B:93:VAL:CG2	1.60	1.32
1:A:442:LYS:CG	1:A:443:TYR:H	1.27	1.32
1:B:246:PHE:CD1	1:B:269:VAL:HG23	1.65	1.32
1:A:246:PHE:CE2	1:A:248:SER:HB3	1.63	1.31
1:B:193:ALA:O	1:B:196:VAL:HG22	1.27	1.31
1:B:557:LEU:HG	1:B:607:PHE:CD2	1.64	1.31
1:A:893:PRO:O	1:A:894:LYS:HG3	1.24	1.31
1:A:557:LEU:HG	1:A:607:PHE:CD2	1.64	1.31
1:B:239:LYS:HD3	1:B:243:ASP:OD2	1.26	1.31
1:B:309:TRP:CD1	1:B:322:ILE:HG13	1.65	1.31
1:B:489:PRO:O	1:B:491:PRO:HD3	1.18	1.31
1:A:600:PHE:HE1	1:A:907:VAL:CG2	1.38	1.30
1:A:309:TRP:CD1	1:A:322:ILE:HG13	1.65	1.30
1:A:706:LEU:CD2	1:A:717:LEU:CD1	2.09	1.30
1:B:71:GLY:CA	1:B:230:LEU:HG	1.59	1.30
1:A:46:ASP:O	1:A:49:ILE:HG12	1.17	1.30
1:A:88:LEU:HD13	1:A:93:VAL:CG2	1.60	1.30
1:A:132:ALA:HB1	1:A:144:PHE:CB	1.61	1.30
1:A:416:LYS:O	1:A:417:LYS:HG3	1.15	1.30
1:A:442:LYS:CG	1:A:443:TYR:N	1.81	1.30
1:B:80:LEU:H	1:B:80:LEU:CD2	1.40	1.30
1:A:518:LYS:O	1:A:519:ARG:CG	1.79	1.29
1:A:698:LEU:HD21	1:A:805:GLU:CB	1.62	1.29
1:A:859:ARG:CG	1:B:309:TRP:HZ2	1.43	1.29
1:B:399:VAL:C	1:B:401:PRO:HD3	1.56	1.29
1:A:679:LYS:O	1:A:743:TYR:HE1	1.08	1.29
1:B:706:LEU:CD2	1:B:717:LEU:CD1	2.09	1.29
1:A:16:ILE:CD1	1:A:667:LEU:HD11	1.62	1.29
1:A:706:LEU:CD2	1:A:717:LEU:HD13	1.63	1.29
1:B:16:ILE:CD1	1:B:667:LEU:HD11	1.62	1.29
1:A:399:VAL:C	1:A:401:PRO:HD3	1.56	1.29
1:A:679:LYS:O	1:A:743:TYR:CE1	1.85	1.29
1:B:132:ALA:HB1	1:B:144:PHE:CB	1.61	1.29
1:B:706:LEU:CD2	1:B:717:LEU:HD13	1.63	1.29
1:B:814:ALA:CB	1:B:817:PRO:HG2	1.62	1.29
1:B:890:GLY:O	1:B:893:PRO:HG2	1.31	1.29
1:A:106:LYS:NZ	1:A:361:GLN:HE21	1.31	1.28
1:A:193:ALA:O	1:A:196:VAL:HG22	1.27	1.28
1:A:399:VAL:CB	1:A:404:LEU:HD22	1.62	1.28
1:A:736:ILE:CD1	1:A:827:LEU:CD2	2.10	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:456:LYS:CE	1:B:476:ALA:CB	2.03	1.28
1:B:286:PHE:CE2	1:B:688:MET:HE1	1.68	1.28
1:B:416:LYS:O	1:B:417:LYS:HG3	1.15	1.28
1:B:546:GLU:OE1	1:B:679:LYS:HE2	1.31	1.28
1:B:583:ARG:CB	1:B:603:ALA:HB1	1.62	1.28
1:A:679:LYS:HA	1:A:682:ARG:NE	1.49	1.28
1:B:48:LEU:O	1:B:52:LEU:HG	1.31	1.28
1:B:518:LYS:O	1:B:519:ARG:CG	1.79	1.28
1:B:736:ILE:CD1	1:B:827:LEU:CD2	2.10	1.28
1:A:407:THR:CG2	1:A:517:ARG:CB	2.12	1.28
1:B:106:LYS:NZ	1:B:361:GLN:HE21	1.31	1.28
1:B:679:LYS:O	1:B:743:TYR:CE1	1.85	1.28
1:A:484:VAL:C	1:A:524:TRP:HB2	1.56	1.28
1:A:583:ARG:CB	1:A:603:ALA:HB1	1.62	1.28
1:B:332:ILE:CD1	1:B:702:LEU:CD2	2.12	1.28
1:B:698:LEU:HD21	1:B:805:GLU:CB	1.62	1.28
1:A:814:ALA:CB	1:A:817:PRO:HG2	1.62	1.27
1:B:399:VAL:CB	1:B:404:LEU:HD22	1.62	1.27
1:B:591:ASP:CA	1:B:592:MET:CE	2.07	1.27
1:B:698:LEU:CD2	1:B:805:GLU:HB3	1.62	1.27
1:A:591:ASP:CA	1:A:592:MET:CE	2.07	1.27
1:B:407:THR:CG2	1:B:517:ARG:CB	2.12	1.27
1:B:484:VAL:C	1:B:524:TRP:HB2	1.56	1.27
1:B:648:GLY:O	1:B:662:ALA:HB1	1.20	1.27
1:B:683:GLN:O	1:B:687:ARG:HG3	1.29	1.27
1:B:790:PHE:CD2	1:B:793:MET:HB2	1.69	1.27
1:A:332:ILE:CD1	1:A:702:LEU:CD2	2.12	1.27
1:A:546:GLU:OE1	1:A:679:LYS:HE2	1.31	1.27
1:A:286:PHE:CE2	1:A:688:MET:HE1	1.68	1.27
1:A:698:LEU:CD2	1:A:805:GLU:HB3	1.62	1.27
1:B:679:LYS:HA	1:B:682:ARG:NE	1.49	1.27
1:A:74:VAL:CB	1:A:76:PRO:CD	2.13	1.27
1:A:293:ILE:CD1	1:A:756:TRP:CE3	2.04	1.27
1:A:375:LEU:HD13	1:A:552:LEU:CD2	1.65	1.27
1:B:484:VAL:CA	1:B:524:TRP:HB2	1.65	1.27
1:A:74:VAL:HG23	1:A:76:PRO:CD	1.58	1.26
1:A:484:VAL:CA	1:A:524:TRP:HB2	1.65	1.26
1:A:790:PHE:CD2	1:A:793:MET:HB2	1.69	1.26
1:B:82:THR:HG21	1:B:244:GLN:NE2	1.50	1.26
1:B:667:LEU:O	1:B:669:PRO:HD3	1.12	1.26
1:A:346:MET:SD	1:A:363:LEU:HB3	1.75	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:VAL:O	1:A:401:PRO:HD3	1.24	1.26
1:A:489:PRO:O	1:A:491:PRO:HD3	1.18	1.26
1:B:34:LYS:HB2	1:B:35:PRO:CD	1.63	1.26
1:B:74:VAL:CB	1:B:76:PRO:CD	2.13	1.26
1:B:346:MET:SD	1:B:363:LEU:HB3	1.75	1.26
1:B:375:LEU:HD13	1:B:552:LEU:CD2	1.65	1.26
1:A:48:LEU:O	1:A:52:LEU:HG	1.31	1.26
1:B:191:ILE:HD11	1:B:195:GLU:OE1	1.08	1.26
1:B:399:VAL:O	1:B:401:PRO:HD3	1.24	1.26
1:B:683:GLN:CB	1:B:687:ARG:HH21	1.49	1.26
1:B:246:PHE:HB2	1:B:268:PHE:CD2	1.71	1.26
1:B:893:PRO:O	1:B:894:LYS:HG3	1.24	1.26
1:A:82:THR:HG21	1:A:244:GLN:NE2	1.50	1.25
1:A:125:GLN:HG2	1:A:151:LEU:CD2	1.64	1.25
1:A:146:VAL:CG2	1:A:719:ILE:HG13	1.67	1.25
1:A:305:LEU:CD1	1:A:329:ILE:CB	2.14	1.25
1:A:683:GLN:O	1:A:687:ARG:HG3	1.29	1.25
1:A:683:GLN:CB	1:A:687:ARG:HH21	1.49	1.25
1:B:125:GLN:HG2	1:B:151:LEU:CD2	1.64	1.25
1:B:293:ILE:CD1	1:B:756:TRP:CE3	2.04	1.25
1:B:305:LEU:CD1	1:B:329:ILE:CB	2.14	1.25
1:B:683:GLN:CG	1:B:743:TYR:CE1	2.19	1.25
1:A:34:LYS:HB2	1:A:35:PRO:CD	1.63	1.25
1:A:191:ILE:HD11	1:A:195:GLU:OE1	1.08	1.25
1:A:246:PHE:HB2	1:A:268:PHE:CD2	1.71	1.25
1:A:390:LEU:HD13	1:A:530:MET:O	1.10	1.25
1:A:399:VAL:C	1:A:401:PRO:CD	2.10	1.25
1:A:399:VAL:CG1	1:A:401:PRO:CG	2.15	1.25
1:A:690:ALA:HB1	1:A:812:THR:O	1.30	1.25
1:B:146:VAL:CG2	1:B:719:ILE:HG13	1.67	1.25
1:B:434:PRO:O	1:B:435:ARG:HG3	1.36	1.25
1:B:592:MET:HB2	1:B:593:PRO:CD	1.64	1.25
1:B:818:PHE:HB3	1:B:875:TYR:CB	1.67	1.25
1:B:74:VAL:HG23	1:B:76:PRO:CD	1.58	1.25
1:B:690:ALA:HB1	1:B:812:THR:O	1.30	1.25
1:A:246:PHE:CD1	1:A:269:VAL:CG2	2.20	1.25
1:A:818:PHE:HB3	1:A:875:TYR:CB	1.67	1.24
1:B:390:LEU:HD13	1:B:530:MET:O	1.10	1.24
1:A:239:LYS:HD3	1:A:243:ASP:OD2	1.26	1.24
1:A:683:GLN:CG	1:A:743:TYR:CE1	2.19	1.24
1:B:24:LYS:CD	1:B:171:GLU:HB3	1.65	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:ILE:HD12	1:B:517:ARG:NE	1.53	1.24
1:A:434:PRO:O	1:A:435:ARG:HG3	1.36	1.24
1:A:600:PHE:CE1	1:A:907:VAL:HG22	1.66	1.24
1:A:667:LEU:O	1:A:669:PRO:HD3	1.12	1.24
1:B:600:PHE:CE1	1:B:907:VAL:HG22	1.66	1.24
1:B:399:VAL:CG1	1:B:401:PRO:HG2	1.67	1.24
1:B:720:GLU:O	1:B:723:VAL:HG22	1.34	1.24
1:B:803:LEU:CD2	1:B:860:ILE:HG21	1.61	1.24
1:A:592:MET:HB2	1:A:593:PRO:CD	1.64	1.24
1:B:399:VAL:C	1:B:401:PRO:CD	2.10	1.24
1:B:546:GLU:OE1	1:B:679:LYS:CE	1.86	1.24
1:A:24:LYS:CD	1:A:171:GLU:HB3	1.65	1.23
1:A:305:LEU:HD13	1:A:329:ILE:CG2	1.68	1.23
1:A:379:LYS:HE2	1:A:534:ASP:OD2	1.34	1.23
1:A:518:LYS:HD2	1:A:523:SER:CB	1.67	1.23
1:A:890:GLY:O	1:A:893:PRO:HG2	1.31	1.23
1:B:305:LEU:HD13	1:B:329:ILE:CG2	1.68	1.23
1:B:399:VAL:CG1	1:B:401:PRO:CG	2.15	1.23
1:B:74:VAL:CB	1:B:76:PRO:HD3	1.68	1.23
1:B:390:LEU:HB3	1:B:531:PRO:O	1.38	1.23
1:B:771:TRP:NE1	1:B:775:THR:HG21	1.52	1.23
1:A:74:VAL:CB	1:A:76:PRO:HD3	1.68	1.23
1:A:399:VAL:CG1	1:A:401:PRO:HG2	1.67	1.23
1:B:518:LYS:HD2	1:B:523:SER:CB	1.67	1.23
1:B:852:THR:O	1:B:856:ALA:HB3	1.34	1.23
1:A:325:PHE:CE2	1:A:706:LEU:CB	2.22	1.23
1:A:390:LEU:HB3	1:A:531:PRO:O	1.38	1.23
1:A:799:LEU:HD11	1:A:842:THR:OG1	1.38	1.23
1:A:70:GLY:CA	1:A:268:PHE:CZ	2.21	1.22
1:A:193:ALA:C	1:A:196:VAL:HG22	1.64	1.22
1:B:484:VAL:CB	1:B:526:ILE:HG23	1.68	1.22
1:A:470:ILE:HD12	1:A:517:ARG:NE	1.53	1.22
1:B:70:GLY:CA	1:B:268:PHE:CZ	2.21	1.22
1:B:246:PHE:CD1	1:B:269:VAL:CG2	2.20	1.22
1:A:28:ALA:HB1	1:A:170:ASP:CB	1.59	1.22
1:B:732:ALA:O	1:B:735:ALA:HB3	1.36	1.22
1:A:74:VAL:HB	1:A:76:PRO:CD	1.70	1.22
1:B:506:ALA:N	1:B:510:PHE:HD2	1.37	1.22
1:A:456:LYS:CE	1:A:476:ALA:CB	2.03	1.22
1:A:546:GLU:OE1	1:A:679:LYS:CE	1.86	1.22
1:A:720:GLU:O	1:A:723:VAL:HG22	1.34	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:LEU:CD1	1:B:329:ILE:HB	1.69	1.22
1:B:346:MET:CG	1:B:363:LEU:HB3	1.69	1.22
1:B:510:PHE:CZ	1:B:512:SER:CB	2.23	1.22
1:A:484:VAL:CB	1:A:526:ILE:HG23	1.68	1.21
1:A:803:LEU:HG	1:A:807:TRP:NE1	1.55	1.21
1:A:859:ARG:HG3	1:B:319:ILE:CD1	1.68	1.21
1:B:325:PHE:CE2	1:B:706:LEU:CB	2.22	1.21
1:B:453:PRO:HA	1:B:592:MET:HG3	1.22	1.21
1:A:332:ILE:CD1	1:A:702:LEU:HD23	1.69	1.21
1:A:407:THR:HB	1:A:527:LEU:CD2	1.71	1.21
1:A:506:ALA:N	1:A:510:PHE:HD2	1.38	1.21
1:A:731:VAL:O	1:A:734:LEU:HD23	1.41	1.21
1:B:28:ALA:HB1	1:B:170:ASP:CB	1.59	1.21
1:B:74:VAL:HB	1:B:76:PRO:CD	1.70	1.21
1:B:193:ALA:C	1:B:196:VAL:HG22	1.64	1.21
1:B:417:LYS:O	1:B:418:GLY:O	1.57	1.21
1:B:515:VAL:HG22	1:B:528:GLY:O	1.38	1.21
1:B:407:THR:HB	1:B:527:LEU:CD2	1.71	1.21
1:A:305:LEU:CD1	1:A:329:ILE:HB	1.69	1.21
1:A:346:MET:CG	1:A:363:LEU:HB3	1.69	1.21
1:A:732:ALA:O	1:A:735:ALA:HB3	1.36	1.21
1:A:771:TRP:NE1	1:A:775:THR:HG21	1.52	1.21
1:A:803:LEU:CD2	1:A:860:ILE:HG21	1.61	1.21
1:B:379:LYS:HE2	1:B:534:ASP:OD2	1.34	1.21
1:B:411:ALA:O	1:B:515:VAL:HG11	1.41	1.21
1:B:731:VAL:O	1:B:734:LEU:HD23	1.41	1.21
1:A:80:LEU:HD23	1:A:80:LEU:N	1.49	1.20
1:B:518:LYS:CD	1:B:523:SER:H	1.54	1.20
1:A:515:VAL:HG22	1:A:528:GLY:O	1.38	1.20
1:B:332:ILE:CD1	1:B:702:LEU:HD23	1.69	1.20
1:A:750:TRP:NE1	1:A:753:PRO:HG2	1.56	1.20
1:A:82:THR:CG2	1:A:244:GLN:NE2	2.05	1.20
1:A:390:LEU:HD22	1:A:531:PRO:C	1.66	1.20
1:A:852:THR:O	1:A:856:ALA:HB3	1.34	1.20
1:B:415:LYS:CE	1:B:511:ARG:HG3	1.72	1.20
1:B:803:LEU:HG	1:B:807:TRP:NE1	1.55	1.20
1:B:889:HIS:O	1:B:893:PRO:HD3	1.39	1.20
1:A:247:ALA:HB3	1:A:269:VAL:CB	1.72	1.20
1:A:510:PHE:CZ	1:A:512:SER:CB	2.23	1.20
1:A:518:LYS:CD	1:A:523:SER:H	1.54	1.20
1:A:417:LYS:O	1:A:418:GLY:O	1.57	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:407:THR:CG2	1:B:517:ARG:HB3	1.71	1.19
1:B:799:LEU:HD11	1:B:842:THR:OG1	1.38	1.19
1:A:210:ILE:HG23	1:A:245:VAL:HG22	1.23	1.19
1:A:510:PHE:C	1:A:564:ILE:HD12	1.66	1.19
1:B:125:GLN:CB	1:B:151:LEU:HD13	1.71	1.19
1:A:125:GLN:CB	1:A:151:LEU:HD13	1.71	1.19
1:A:415:LYS:HZ3	1:A:511:ARG:CB	1.52	1.19
1:A:889:HIS:O	1:A:893:PRO:HD3	1.39	1.19
1:B:82:THR:CG2	1:B:244:GLN:NE2	2.05	1.19
1:B:713:LEU:O	1:B:714:ASN:CG	1.86	1.19
1:A:309:TRP:CZ3	1:A:310:VAL:CB	2.26	1.19
1:B:88:LEU:HD23	1:B:198:PRO:O	1.39	1.19
1:B:518:LYS:CB	1:B:523:SER:HB3	1.72	1.19
1:A:706:LEU:HD22	1:A:717:LEU:CD1	1.72	1.19
1:B:28:ALA:HB2	1:B:170:ASP:CB	1.60	1.19
1:B:88:LEU:CD2	1:B:198:PRO:O	1.91	1.19
1:B:309:TRP:CZ3	1:B:310:VAL:CB	2.26	1.19
1:B:750:TRP:NE1	1:B:753:PRO:HG2	1.56	1.19
1:B:390:LEU:HD22	1:B:531:PRO:C	1.66	1.18
1:B:510:PHE:C	1:B:564:ILE:HD12	1.66	1.18
1:A:88:LEU:CD2	1:A:198:PRO:O	1.91	1.18
1:A:771:TRP:CD1	1:A:775:THR:CG2	2.24	1.18
1:B:427:LEU:CA	1:B:440:LEU:HD22	1.73	1.18
1:A:427:LEU:CA	1:A:440:LEU:HD22	1.73	1.18
1:B:71:GLY:N	1:B:230:LEU:HD21	1.59	1.18
1:B:210:ILE:HG23	1:B:245:VAL:HG22	1.23	1.18
1:A:246:PHE:CB	1:A:268:PHE:CD2	2.26	1.18
1:A:305:LEU:CD1	1:A:329:ILE:CG2	2.22	1.18
1:A:427:LEU:N	1:A:440:LEU:HD22	1.57	1.18
1:A:713:LEU:O	1:A:714:ASN:CG	1.86	1.18
1:A:721:LEU:O	1:A:798:PHE:CE1	1.97	1.18
1:A:810:PHE:CE2	1:A:823:PRO:CD	2.13	1.18
1:B:309:TRP:HB2	1:B:326:THR:HG23	1.26	1.18
1:B:803:LEU:CD2	1:B:860:ILE:HG22	1.73	1.18
1:A:88:LEU:HD23	1:A:198:PRO:O	1.39	1.18
1:A:388:LEU:HD11	1:A:415:LYS:HD2	1.26	1.18
1:A:453:PRO:HA	1:A:592:MET:HG3	1.22	1.18
1:A:485:GLU:HA	1:A:490:ILE:CD1	1.74	1.18
1:A:518:LYS:CB	1:A:523:SER:HB3	1.72	1.18
1:A:539:ASP:O	1:A:543:THR:HB	1.43	1.18
1:A:750:TRP:CE2	1:A:753:PRO:HG2	1.77	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:ARG:O	1:B:86:VAL:HG23	1.43	1.18
1:B:771:TRP:CD1	1:B:775:THR:CG2	2.24	1.18
1:A:71:GLY:HA2	1:A:230:LEU:HG	1.18	1.17
1:A:305:LEU:CD1	1:A:329:ILE:HG22	1.74	1.17
1:A:557:LEU:HB3	1:A:607:PHE:HE2	1.09	1.17
1:A:818:PHE:CB	1:A:875:TYR:HB2	1.74	1.17
1:B:750:TRP:CE2	1:B:753:PRO:HG2	1.77	1.17
1:A:411:ALA:O	1:A:515:VAL:HG11	1.41	1.17
1:A:415:LYS:CE	1:A:511:ARG:HG3	1.72	1.17
1:A:506:ALA:HA	1:A:509:GLY:O	1.45	1.17
1:A:570:ARG:HA	1:A:575:GLY:O	1.43	1.17
1:B:247:ALA:HB3	1:B:269:VAL:CB	1.73	1.17
1:B:706:LEU:HD22	1:B:717:LEU:CD1	1.72	1.17
1:B:810:PHE:CE2	1:B:823:PRO:CD	2.13	1.17
1:A:434:PRO:C	1:A:435:ARG:HG3	1.64	1.17
1:B:427:LEU:N	1:B:440:LEU:HD22	1.57	1.17
1:B:818:PHE:CB	1:B:875:TYR:HB2	1.74	1.17
1:B:34:LYS:CB	1:B:35:PRO:CD	2.22	1.17
1:B:246:PHE:CB	1:B:268:PHE:CD2	2.26	1.17
1:B:539:ASP:O	1:B:543:THR:HB	1.43	1.17
1:A:346:MET:HG2	1:A:363:LEU:CD2	1.73	1.17
1:A:385:LYS:HG3	1:A:535:PRO:O	1.41	1.17
1:B:305:LEU:CD1	1:B:329:ILE:CG2	2.22	1.17
1:B:385:LYS:HG3	1:B:535:PRO:O	1.41	1.17
1:B:407:THR:HG22	1:B:517:ARG:HB3	1.19	1.17
1:A:16:ILE:O	1:A:17:GLU:HG3	1.42	1.16
1:A:71:GLY:N	1:A:230:LEU:HD21	1.59	1.16
1:A:325:PHE:HE2	1:A:706:LEU:CB	1.55	1.16
1:A:386:ASN:OD1	1:A:534:ASP:HA	1.41	1.16
1:A:518:LYS:CD	1:A:523:SER:CB	2.22	1.16
1:B:16:ILE:O	1:B:17:GLU:HG3	1.42	1.16
1:B:80:LEU:HD23	1:B:80:LEU:N	1.49	1.16
1:B:305:LEU:CD1	1:B:329:ILE:HG22	1.74	1.16
1:B:346:MET:HG2	1:B:363:LEU:CD2	1.73	1.16
1:B:506:ALA:HA	1:B:509:GLY:O	1.45	1.16
1:B:557:LEU:HB3	1:B:607:PHE:HE2	1.10	1.16
1:B:721:LEU:O	1:B:798:PHE:HE1	1.25	1.16
1:B:721:LEU:O	1:B:798:PHE:CE1	1.97	1.16
1:B:399:VAL:HG12	1:B:401:PRO:HG2	1.18	1.16
1:B:510:PHE:CD1	1:B:531:PRO:CB	2.12	1.16
1:A:484:VAL:HG21	1:A:526:ILE:HG12	1.27	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ARG:HD2	1:A:820:SER:OG	1.44	1.16
1:B:484:VAL:HG21	1:B:526:ILE:HG12	1.27	1.16
1:B:485:GLU:HA	1:B:490:ILE:CD1	1.74	1.16
1:A:721:LEU:O	1:A:798:PHE:HE1	1.26	1.16
1:B:415:LYS:HZ3	1:B:511:ARG:CB	1.58	1.16
1:B:570:ARG:HA	1:B:575:GLY:O	1.43	1.16
1:A:28:ALA:HB2	1:A:170:ASP:CB	1.60	1.16
1:A:383:LEU:CD2	1:A:671:LEU:HD22	1.74	1.16
1:A:689:TYR:CD2	1:A:815:ASN:CG	2.24	1.16
1:B:415:LYS:CE	1:B:511:ARG:CG	2.24	1.16
1:A:34:LYS:CB	1:A:35:PRO:CD	2.22	1.15
1:A:65:GLU:CG	1:A:65:GLU:O	1.92	1.15
1:A:230:LEU:CD2	1:A:268:PHE:CE2	2.30	1.15
1:A:329:ILE:HG12	1:A:706:LEU:CD1	1.76	1.15
1:A:357:LYS:O	1:A:667:LEU:HB3	1.45	1.15
1:B:93:VAL:HG12	1:B:97:ARG:NE	1.61	1.15
1:B:230:LEU:CD2	1:B:268:PHE:CE2	2.30	1.15
1:B:383:LEU:CD2	1:B:671:LEU:HD22	1.74	1.15
1:B:518:LYS:CD	1:B:523:SER:CB	2.22	1.15
1:A:706:LEU:HD23	1:A:717:LEU:HD11	1.27	1.15
1:A:862:ILE:HD11	1:B:309:TRP:CZ3	1.80	1.15
1:B:360:VAL:HG22	1:B:664:ILE:CG2	1.76	1.15
1:B:384:THR:OG1	1:B:534:ASP:CG	1.89	1.15
1:A:312:SER:HB2	1:A:710:ILE:HG22	1.22	1.15
1:B:286:PHE:HE2	1:B:290:LEU:HD11	1.08	1.15
1:B:357:LYS:O	1:B:667:LEU:HB3	1.45	1.15
1:B:375:LEU:O	1:B:554:ILE:HD12	1.44	1.15
1:B:386:ASN:OD1	1:B:534:ASP:HA	1.41	1.15
1:B:388:LEU:HD11	1:B:415:LYS:HD2	1.26	1.15
1:B:689:TYR:CD2	1:B:815:ASN:CG	2.24	1.15
1:A:85:ARG:O	1:A:86:VAL:HG23	1.43	1.15
1:A:210:ILE:HG12	1:A:245:VAL:CG2	1.76	1.15
1:A:384:THR:OG1	1:A:534:ASP:CG	1.89	1.15
1:A:855:VAL:HB	1:B:319:ILE:CG2	1.76	1.15
1:B:71:GLY:HA2	1:B:230:LEU:HG	1.18	1.15
1:B:706:LEU:HD23	1:B:717:LEU:HD11	1.27	1.15
1:B:813:ARG:HD2	1:B:820:SER:OG	1.44	1.15
1:A:415:LYS:CE	1:A:511:ARG:CG	2.24	1.15
1:B:312:SER:CB	1:B:710:ILE:CG2	2.24	1.15
1:B:329:ILE:HG12	1:B:706:LEU:CD1	1.76	1.15
1:B:724:PHE:O	1:B:727:ILE:HG13	1.46	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:312:SER:CB	1:A:710:ILE:CG2	2.24	1.14
1:A:375:LEU:O	1:A:554:ILE:HD12	1.44	1.14
1:A:415:LYS:HE2	1:A:511:ARG:CG	1.76	1.14
1:B:34:LYS:CB	1:B:35:PRO:HD3	1.77	1.14
1:A:871:MET:HB3	1:A:875:TYR:CE1	1.81	1.14
1:B:286:PHE:CE2	1:B:290:LEU:HD11	1.82	1.14
1:B:555:LYS:HG3	1:B:605:ASP:HA	1.28	1.14
1:B:871:MET:HB3	1:B:875:TYR:CE1	1.81	1.14
1:A:286:PHE:CE2	1:A:290:LEU:HD11	1.82	1.14
1:B:375:LEU:HD12	1:B:552:LEU:HD11	1.27	1.14
1:B:415:LYS:HE2	1:B:511:ARG:CG	1.77	1.14
1:A:34:LYS:CB	1:A:35:PRO:HD3	1.77	1.14
1:A:360:VAL:HG22	1:A:664:ILE:CG2	1.76	1.14
1:A:427:LEU:CB	1:A:440:LEU:HD23	1.77	1.14
1:B:591:ASP:OD1	1:B:592:MET:HE3	1.37	1.14
1:A:37:VAL:O	1:A:37:VAL:HG13	1.48	1.14
1:A:183:LEU:HD21	1:A:188:LEU:HG	1.18	1.14
1:B:210:ILE:HG12	1:B:245:VAL:CG2	1.76	1.14
1:B:325:PHE:HE2	1:B:706:LEU:CB	1.55	1.14
1:B:540:THR:O	1:B:544:VAL:HG13	1.45	1.14
1:B:752:LEU:HB3	1:B:753:PRO:HD3	1.18	1.14
1:A:536:PRO:HB3	1:A:572:LEU:CD1	1.78	1.13
1:A:724:PHE:O	1:A:727:ILE:HG13	1.46	1.13
1:B:399:VAL:HG11	1:B:487:ASP:OD2	1.48	1.13
1:A:286:PHE:HE2	1:A:290:LEU:HD11	1.08	1.13
1:A:290:LEU:HD23	1:A:756:TRP:CD1	1.84	1.13
1:A:540:THR:O	1:A:544:VAL:HG13	1.45	1.13
1:B:65:GLU:CG	1:B:65:GLU:O	1.92	1.13
1:B:293:ILE:HD11	1:B:756:TRP:CZ3	1.67	1.13
1:B:536:PRO:HB3	1:B:572:LEU:CD1	1.78	1.13
1:B:581:ALA:HA	1:B:586:LEU:HD23	1.31	1.13
1:A:32:GLN:HB3	1:A:33:PRO:HD3	1.30	1.13
1:A:581:ALA:CA	1:A:586:LEU:HD23	1.79	1.13
1:A:600:PHE:O	1:A:603:ALA:HB2	1.47	1.13
1:A:859:ARG:CG	1:B:309:TRP:CZ2	2.22	1.13
1:B:581:ALA:CA	1:B:586:LEU:HD23	1.79	1.13
1:A:134:LEU:O	1:A:134:LEU:HD13	1.49	1.13
1:A:501:LYS:HE3	1:A:505:PHE:HZ	1.12	1.13
1:A:591:ASP:CG	1:A:592:MET:HE2	1.73	1.13
1:B:427:LEU:CB	1:B:440:LEU:HD23	1.77	1.13
1:B:682:ARG:NH1	1:B:744:SER:HB3	1.64	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:GLY:CA	1:A:230:LEU:CG	2.27	1.12
1:A:597:VAL:HA	1:A:600:PHE:CD2	1.84	1.12
1:A:682:ARG:NH1	1:A:744:SER:HB3	1.64	1.13
1:A:93:VAL:HG12	1:A:97:ARG:NE	1.61	1.12
1:A:94:VAL:CG2	1:A:98:ARG:HH21	1.60	1.12
1:B:600:PHE:O	1:B:603:ALA:HB2	1.47	1.12
1:A:34:LYS:HB2	1:A:35:PRO:HD2	1.32	1.12
1:A:88:LEU:CD1	1:A:93:VAL:HG23	1.79	1.12
1:A:93:VAL:CG1	1:A:197:VAL:HG12	1.79	1.12
1:A:216:ILE:CD1	1:A:243:ASP:HB3	1.79	1.12
1:A:427:LEU:HB2	1:A:440:LEU:CD2	1.79	1.12
1:B:94:VAL:CG2	1:B:98:ARG:HH21	1.60	1.12
1:B:537:ARG:HG2	1:B:538:HIS:H	1.10	1.12
1:B:583:ARG:HB2	1:B:603:ALA:O	1.48	1.12
1:B:591:ASP:CG	1:B:592:MET:HE2	1.73	1.12
1:A:399:VAL:HG11	1:A:487:ASP:OD2	1.49	1.12
1:B:78:ASP:CG	1:B:81:GLN:HG3	1.75	1.12
1:B:88:LEU:CD1	1:B:93:VAL:HG23	1.79	1.12
1:B:305:LEU:O	1:B:326:THR:HG22	1.49	1.12
1:A:78:ASP:OD1	1:A:81:GLN:HG3	1.49	1.12
1:B:216:ILE:CD1	1:B:243:ASP:HB3	1.79	1.12
1:B:374:ILE:HD12	1:B:553:SER:CB	1.79	1.12
1:B:611:PHE:HB3	1:B:612:PRO:HD2	1.12	1.12
1:A:811:ILE:HB	1:A:871:MET:HG3	1.27	1.12
1:B:71:GLY:CA	1:B:230:LEU:CG	2.27	1.12
1:B:290:LEU:HD23	1:B:756:TRP:CD1	1.84	1.12
1:B:803:LEU:HD23	1:B:860:ILE:HG22	1.28	1.12
1:A:216:ILE:HD12	1:A:243:ASP:HB3	1.12	1.11
1:A:407:THR:CG2	1:A:517:ARG:HB3	1.71	1.11
1:B:93:VAL:CG1	1:B:197:VAL:HG12	1.79	1.11
1:B:611:PHE:HB3	1:B:612:PRO:CD	1.80	1.11
1:A:78:ASP:CG	1:A:81:GLN:HG3	1.75	1.11
1:A:305:LEU:CD1	1:A:329:ILE:C	2.23	1.11
1:A:407:THR:HG22	1:A:517:ARG:HB2	1.31	1.11
1:B:34:LYS:HB2	1:B:35:PRO:HD2	1.32	1.11
1:B:37:VAL:O	1:B:37:VAL:HG13	1.48	1.11
1:A:93:VAL:O	1:A:97:ARG:HG3	1.50	1.11
1:A:105:MET:CG	1:A:274:ALA:HA	1.81	1.11
1:A:132:ALA:HB1	1:A:144:PHE:HB2	1.25	1.11
1:A:182:VAL:HG21	1:A:200:ASP:CB	1.80	1.11
1:A:192:GLU:O	1:A:196:VAL:HG13	1.48	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:THR:O	1:A:271:ARG:HB2	1.50	1.11
1:A:374:ILE:HD12	1:A:553:SER:CB	1.79	1.11
1:A:375:LEU:HD12	1:A:552:LEU:HD11	1.27	1.11
1:A:611:PHE:HB3	1:A:612:PRO:CD	1.80	1.11
1:A:871:MET:HB3	1:A:875:TYR:HE1	0.98	1.11
1:B:134:LEU:HD13	1:B:134:LEU:O	1.49	1.11
1:B:183:LEU:HD21	1:B:188:LEU:HG	1.18	1.11
1:B:346:MET:HG2	1:B:363:LEU:HD23	1.12	1.11
1:B:597:VAL:HA	1:B:600:PHE:CD2	1.84	1.11
1:A:293:ILE:HD11	1:A:756:TRP:CZ3	1.67	1.11
1:A:416:LYS:O	1:A:417:LYS:CG	1.98	1.11
1:B:427:LEU:HB2	1:B:440:LEU:CD2	1.79	1.11
1:B:697:ALA:CB	1:B:765:VAL:HG23	1.81	1.11
1:A:346:MET:HG2	1:A:363:LEU:HD23	1.12	1.11
1:A:689:TYR:HD2	1:A:815:ASN:HB2	1.13	1.11
1:B:105:MET:CG	1:B:274:ALA:HA	1.81	1.11
1:B:652:GLU:CG	1:B:667:LEU:HD13	1.80	1.11
1:A:181:VAL:O	1:A:202:LEU:HD13	1.51	1.10
1:A:537:ARG:HG2	1:A:538:HIS:H	1.10	1.10
1:A:591:ASP:OD1	1:A:592:MET:HE3	1.37	1.10
1:A:652:GLU:CG	1:A:667:LEU:HD13	1.80	1.10
1:A:736:ILE:HD11	1:A:827:LEU:HD23	1.31	1.10
1:A:803:LEU:CD2	1:A:860:ILE:HG22	1.73	1.10
1:A:125:GLN:CA	1:A:151:LEU:HD13	1.82	1.10
1:B:74:VAL:HG23	1:B:75:VAL:H	1.03	1.10
1:B:125:GLN:HB3	1:B:151:LEU:HD13	1.18	1.10
1:B:182:VAL:HG21	1:B:200:ASP:CB	1.80	1.10
1:B:305:LEU:CD1	1:B:329:ILE:C	2.23	1.10
1:B:390:LEU:CD2	1:B:532:CYS:CB	2.18	1.10
1:B:485:GLU:HB3	1:B:524:TRP:O	1.52	1.10
1:B:501:LYS:HE3	1:B:505:PHE:HZ	1.12	1.10
1:A:125:GLN:HB3	1:A:151:LEU:HD13	1.18	1.10
1:A:305:LEU:O	1:A:326:THR:HG22	1.49	1.10
1:A:399:VAL:HG12	1:A:401:PRO:HG2	1.18	1.10
1:A:583:ARG:HB2	1:A:603:ALA:O	1.48	1.10
1:A:697:ALA:CB	1:A:765:VAL:HG23	1.81	1.10
1:A:712:ILE:CG2	1:A:713:LEU:H	1.59	1.10
1:B:434:PRO:C	1:B:435:ARG:HG3	1.64	1.10
1:B:583:ARG:CA	1:B:603:ALA:HB1	1.80	1.10
1:A:210:ILE:HB	1:A:247:ALA:HA	1.32	1.10
1:A:591:ASP:CB	1:A:592:MET:HE2	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:GLU:O	1:B:196:VAL:HG13	1.47	1.10
1:B:193:ALA:O	1:B:196:VAL:CG2	1.99	1.10
1:B:407:THR:C	1:B:527:LEU:CD1	2.25	1.10
1:A:193:ALA:O	1:A:196:VAL:CG2	1.99	1.10
1:A:438:SER:O	1:A:440:LEU:N	1.84	1.10
1:A:752:LEU:HB3	1:A:753:PRO:HD3	1.18	1.10
1:B:78:ASP:OD1	1:B:81:GLN:HG3	1.49	1.10
1:B:312:SER:HB2	1:B:710:ILE:HG22	1.22	1.10
1:B:383:LEU:HD22	1:B:671:LEU:HD22	1.11	1.10
1:B:416:LYS:O	1:B:417:LYS:CG	1.98	1.10
1:B:591:ASP:CB	1:B:592:MET:HE2	1.80	1.10
1:A:246:PHE:HB2	1:A:268:PHE:CG	1.86	1.09
1:A:520:GLY:O	1:A:521:GLU:HG3	1.50	1.09
1:A:581:ALA:HA	1:A:586:LEU:HD23	1.31	1.09
1:A:706:LEU:HD23	1:A:717:LEU:CD1	1.78	1.09
1:A:736:ILE:HD12	1:A:827:LEU:CD2	1.78	1.09
1:A:808:LEU:O	1:A:811:ILE:HG12	1.49	1.09
1:B:24:LYS:HD2	1:B:171:GLU:HB3	1.34	1.09
1:B:267:THR:O	1:B:271:ARG:HB2	1.50	1.09
1:A:485:GLU:HB3	1:A:524:TRP:O	1.52	1.09
1:A:687:ARG:HD3	1:A:738:TYR:O	1.51	1.09
1:B:125:GLN:CA	1:B:151:LEU:HD13	1.82	1.09
1:B:210:ILE:HB	1:B:247:ALA:HA	1.32	1.09
1:B:394:TYR:CE2	1:B:529:ILE:HD11	1.88	1.09
1:B:511:ARG:N	1:B:564:ILE:HD12	1.65	1.09
1:B:520:GLY:O	1:B:521:GLU:HG3	1.50	1.09
1:A:407:THR:C	1:A:527:LEU:CD1	2.25	1.09
1:A:484:VAL:CG2	1:A:526:ILE:HG12	1.83	1.09
1:A:583:ARG:CA	1:A:603:ALA:HB1	1.80	1.09
1:A:611:PHE:HB3	1:A:612:PRO:HD2	1.12	1.09
1:B:16:ILE:CD1	1:B:667:LEU:HD21	1.82	1.09
1:B:181:VAL:O	1:B:202:LEU:HD13	1.51	1.09
1:B:191:ILE:HD11	1:B:195:GLU:CD	1.77	1.09
1:B:438:SER:O	1:B:440:LEU:N	1.84	1.09
1:B:871:MET:HB3	1:B:875:TYR:HE1	0.98	1.09
1:A:93:VAL:HG13	1:A:197:VAL:HG12	1.28	1.09
1:A:309:TRP:HB2	1:A:326:THR:HG23	1.26	1.09
1:A:518:LYS:HD2	1:A:523:SER:HB2	1.10	1.09
1:A:552:LEU:CD2	1:A:678:LEU:HD22	1.82	1.09
1:A:683:GLN:HB3	1:A:687:ARG:HH21	1.09	1.09
1:B:312:SER:CB	1:B:710:ILE:HG22	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:PHE:CG	1:B:710:ILE:HD11	1.86	1.09
1:B:597:VAL:HA	1:B:600:PHE:HD2	1.03	1.09
1:B:679:LYS:CG	1:B:682:ARG:NH2	2.16	1.09
1:A:191:ILE:HD11	1:A:195:GLU:CD	1.77	1.09
1:A:390:LEU:CD1	1:A:530:MET:O	2.00	1.09
1:A:451:PHE:HB3	1:A:458:VAL:HG12	1.11	1.09
1:A:511:ARG:N	1:A:564:ILE:HD12	1.65	1.09
1:B:32:GLN:HB3	1:B:33:PRO:HD3	1.30	1.09
1:B:132:ALA:HB1	1:B:144:PHE:HB2	1.25	1.09
1:B:484:VAL:CG2	1:B:526:ILE:HG12	1.83	1.09
1:B:600:PHE:HE1	1:B:907:VAL:HG23	1.17	1.09
1:B:712:ILE:HG22	1:B:713:LEU:N	1.64	1.09
1:B:756:TRP:CE3	1:B:757:GLY:N	2.20	1.09
1:A:16:ILE:CD1	1:A:667:LEU:HD21	1.82	1.08
1:A:325:PHE:CG	1:A:710:ILE:HD11	1.86	1.08
1:A:415:LYS:NZ	1:A:511:ARG:CB	2.16	1.08
1:A:756:TRP:CE3	1:A:757:GLY:N	2.20	1.08
1:B:308:VAL:HG13	1:B:707:GLY:CA	1.82	1.08
1:B:375:LEU:CD1	1:B:552:LEU:HD11	1.82	1.08
1:B:451:PHE:HB3	1:B:458:VAL:HG12	1.11	1.08
1:B:683:GLN:HB3	1:B:687:ARG:HH21	1.09	1.08
1:B:687:ARG:HD3	1:B:738:TYR:O	1.51	1.08
1:B:689:TYR:HD2	1:B:815:ASN:HB2	1.13	1.08
1:B:706:LEU:O	1:B:710:ILE:HG12	1.51	1.08
1:A:69:PRO:O	1:A:75:VAL:CG2	2.01	1.08
1:A:308:VAL:HG13	1:A:707:GLY:CA	1.82	1.08
1:A:399:VAL:CG1	1:A:401:PRO:CD	2.29	1.08
1:A:415:LYS:NZ	1:A:511:ARG:CG	2.03	1.08
1:A:679:LYS:CG	1:A:682:ARG:NH2	2.16	1.08
1:A:706:LEU:O	1:A:710:ILE:HG12	1.51	1.08
1:B:69:PRO:O	1:B:75:VAL:CG2	2.01	1.08
1:B:93:VAL:O	1:B:97:ARG:HG3	1.50	1.08
1:B:246:PHE:HB2	1:B:268:PHE:CG	1.86	1.08
1:B:390:LEU:CD1	1:B:530:MET:O	2.00	1.08
1:B:712:ILE:CG2	1:B:713:LEU:H	1.59	1.08
1:A:182:VAL:HA	1:A:201:ILE:O	1.52	1.08
1:A:305:LEU:HD22	1:A:329:ILE:CG2	1.82	1.08
1:A:360:VAL:CG2	1:A:664:ILE:HG23	1.84	1.08
1:A:375:LEU:CD1	1:A:552:LEU:HD11	1.82	1.08
1:A:399:VAL:CG1	1:A:487:ASP:OD2	2.02	1.08
1:B:77:GLU:O	1:B:80:LEU:HD21	1.54	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:251:VAL:O	1:B:253:ARG:HG3	1.50	1.08
1:B:315:ARG:CB	1:B:710:ILE:O	2.02	1.08
1:B:399:VAL:CG1	1:B:401:PRO:CD	2.29	1.08
1:B:736:ILE:HD12	1:B:827:LEU:CD2	1.78	1.08
1:B:811:ILE:HB	1:B:871:MET:HG3	1.27	1.08
1:A:65:GLU:O	1:A:65:GLU:HG3	1.54	1.08
1:A:312:SER:CB	1:A:710:ILE:HG22	1.83	1.08
1:A:394:TYR:CE2	1:A:529:ILE:HD11	1.88	1.08
1:A:484:VAL:CG2	1:A:526:ILE:CG2	2.31	1.08
1:A:517:ARG:HD2	1:A:517:ARG:C	1.78	1.08
1:A:555:LYS:HG3	1:A:605:ASP:HA	1.28	1.08
1:B:28:ALA:HB2	1:B:170:ASP:HB3	1.08	1.08
1:B:216:ILE:HD12	1:B:243:ASP:CG	1.78	1.08
1:B:407:THR:HG22	1:B:517:ARG:HB2	1.31	1.08
1:B:433:TYR:HB3	1:B:434:PRO:HD3	1.35	1.08
1:B:683:GLN:OE1	1:B:687:ARG:NH2	1.87	1.08
1:B:782:GLU:HG3	1:B:783:ASN:H	1.05	1.08
1:B:808:LEU:O	1:B:811:ILE:HG12	1.49	1.08
1:A:24:LYS:HD2	1:A:171:GLU:HB3	1.34	1.08
1:A:481:LEU:HD22	1:A:498:TYR:CD2	1.89	1.08
1:A:697:ALA:CA	1:A:765:VAL:HG23	1.82	1.08
1:A:859:ARG:HG3	1:B:319:ILE:HD11	1.11	1.08
1:B:191:ILE:CD1	1:B:195:GLU:OE1	2.02	1.08
1:B:360:VAL:CG2	1:B:664:ILE:HG23	1.84	1.08
1:B:690:ALA:CB	1:B:812:THR:O	2.01	1.08
1:A:407:THR:O	1:A:527:LEU:CD1	2.03	1.07
1:A:683:GLN:OE1	1:A:687:ARG:NH2	1.87	1.07
1:A:690:ALA:CB	1:A:812:THR:O	2.01	1.07
1:B:28:ALA:CB	1:B:170:ASP:HB2	1.68	1.07
1:B:182:VAL:HA	1:B:201:ILE:O	1.52	1.07
1:B:399:VAL:CG1	1:B:487:ASP:OD2	2.02	1.07
1:A:28:ALA:HB2	1:A:170:ASP:HB3	1.08	1.07
1:A:191:ILE:CD1	1:A:195:GLU:OE1	2.02	1.07
1:A:315:ARG:CB	1:A:710:ILE:O	2.02	1.07
1:A:399:VAL:HG12	1:A:401:PRO:HD2	1.35	1.07
1:A:510:PHE:CD1	1:A:531:PRO:CB	2.12	1.07
1:A:557:LEU:CB	1:A:607:PHE:HE2	1.66	1.07
1:A:600:PHE:HE1	1:A:907:VAL:HG23	1.17	1.07
1:B:385:LYS:HE3	1:B:537:ARG:HB2	1.35	1.07
1:B:552:LEU:CD2	1:B:678:LEU:HD22	1.82	1.07
1:B:697:ALA:CA	1:B:765:VAL:HG23	1.82	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:ALA:CA	1:A:170:ASP:HB3	1.85	1.07
1:A:216:ILE:HD12	1:A:243:ASP:CG	1.78	1.07
1:A:305:LEU:CD2	1:A:329:ILE:HG21	1.84	1.07
1:A:683:GLN:HB3	1:A:687:ARG:NH2	1.67	1.07
1:A:782:GLU:HG3	1:A:783:ASN:H	1.05	1.07
1:A:818:PHE:HB3	1:A:875:TYR:HB3	1.32	1.07
1:B:155:ALA:O	1:B:158:GLY:N	1.88	1.07
1:B:216:ILE:HD12	1:B:243:ASP:HB3	1.12	1.07
1:B:293:ILE:HD13	1:B:756:TRP:CZ3	1.83	1.07
1:B:891:LYS:C	1:B:893:PRO:HD2	1.80	1.07
1:A:383:LEU:HD22	1:A:671:LEU:HD22	1.11	1.07
1:A:415:LYS:CE	1:A:511:ARG:CD	2.33	1.07
1:A:891:LYS:C	1:A:893:PRO:HD2	1.80	1.07
1:B:75:VAL:N	1:B:76:PRO:CD	2.18	1.07
1:B:93:VAL:HG13	1:B:197:VAL:HG12	1.28	1.07
1:B:305:LEU:HD22	1:B:329:ILE:CG2	1.82	1.07
1:B:407:THR:CG2	1:B:517:ARG:CG	2.33	1.07
1:B:557:LEU:CB	1:B:607:PHE:HE2	1.67	1.07
1:B:683:GLN:HB3	1:B:687:ARG:NH2	1.67	1.07
1:B:719:ILE:O	1:B:723:VAL:HG13	1.54	1.07
1:A:75:VAL:N	1:A:76:PRO:CD	2.18	1.07
1:A:77:GLU:O	1:A:80:LEU:HD21	1.54	1.07
1:A:155:ALA:O	1:A:158:GLY:N	1.88	1.07
1:A:251:VAL:O	1:A:253:ARG:HG3	1.50	1.07
1:A:407:THR:HG23	1:A:517:ARG:HG2	1.36	1.07
1:A:413:SER:CB	1:A:474:LYS:HD3	1.85	1.07
1:A:428:LYS:HE2	1:A:432:TYR:OH	1.54	1.07
1:A:537:ARG:CG	1:A:538:HIS:H	1.68	1.07
1:B:305:LEU:CD2	1:B:329:ILE:HG21	1.84	1.07
1:B:415:LYS:NZ	1:B:511:ARG:CG	2.03	1.07
1:B:471:THR:OG1	1:B:519:ARG:HA	1.54	1.07
1:B:736:ILE:HD11	1:B:827:LEU:HD23	1.31	1.07
1:A:37:VAL:O	1:A:38:GLU:HG2	1.53	1.06
1:A:518:LYS:HG2	1:A:521:GLU:H	1.16	1.06
1:A:592:MET:CE	1:A:592:MET:H	1.68	1.06
1:A:592:MET:N	1:A:592:MET:SD	2.24	1.06
1:A:689:TYR:CE1	1:A:761:LEU:CD2	2.37	1.06
1:A:778:TYR:OH	1:B:310:VAL:HG21	1.54	1.06
1:B:28:ALA:CA	1:B:170:ASP:HB3	1.85	1.06
1:B:407:THR:HB	1:B:527:LEU:HD22	1.35	1.06
1:B:818:PHE:HB3	1:B:875:TYR:HB3	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:VAL:HG23	1:A:75:VAL:H	1.03	1.06
1:A:308:VAL:HG12	1:A:710:ILE:HG13	1.37	1.06
1:A:325:PHE:HE2	1:A:706:LEU:CA	1.68	1.06
1:A:325:PHE:CE1	1:A:709:TRP:NE1	2.23	1.06
1:A:346:MET:CG	1:A:363:LEU:HD23	1.85	1.06
1:A:407:THR:CG2	1:A:517:ARG:CG	2.33	1.06
1:B:592:MET:CE	1:B:592:MET:H	1.68	1.06
1:A:293:ILE:HD13	1:A:756:TRP:CZ3	1.83	1.06
1:B:37:VAL:O	1:B:38:GLU:HG2	1.53	1.06
1:B:325:PHE:CE1	1:B:709:TRP:NE1	2.23	1.06
1:B:415:LYS:CE	1:B:511:ARG:CD	2.33	1.06
1:B:481:LEU:HD22	1:B:498:TYR:CD2	1.89	1.06
1:B:484:VAL:CG2	1:B:526:ILE:CG2	2.31	1.06
1:B:517:ARG:C	1:B:517:ARG:HD2	1.78	1.06
1:B:518:LYS:HG2	1:B:521:GLU:H	1.15	1.06
1:B:689:TYR:CE1	1:B:761:LEU:CD2	2.37	1.06
1:A:74:VAL:HB	1:A:76:PRO:HD3	1.21	1.06
1:A:82:THR:CG2	1:A:244:GLN:HE22	1.67	1.06
1:A:374:ILE:CD1	1:A:553:SER:CB	2.32	1.06
1:B:305:LEU:CD2	1:B:329:ILE:CG2	2.33	1.06
1:B:374:ILE:CD1	1:B:553:SER:CB	2.32	1.06
1:B:413:SER:CB	1:B:474:LYS:HD3	1.85	1.06
1:B:415:LYS:NZ	1:B:511:ARG:CB	2.16	1.06
1:B:513:LEU:HD13	1:B:514:GLY:N	1.69	1.06
1:B:552:LEU:HD22	1:B:678:LEU:HD22	1.11	1.06
1:B:691:TYR:HD1	1:B:734:LEU:O	1.37	1.06
1:B:696:ILE:HG23	1:B:765:VAL:HG21	1.09	1.06
1:A:70:GLY:C	1:A:230:LEU:CD2	2.29	1.06
1:A:513:LEU:HD13	1:A:514:GLY:N	1.69	1.06
1:A:682:ARG:NH1	1:A:744:SER:CB	2.19	1.06
1:A:697:ALA:HB2	1:A:765:VAL:HG23	1.30	1.06
1:A:810:PHE:CZ	1:A:823:PRO:HD2	1.90	1.06
1:B:74:VAL:HB	1:B:76:PRO:HD3	1.21	1.06
1:B:183:LEU:CD2	1:B:188:LEU:HG	1.85	1.06
1:B:315:ARG:HB2	1:B:710:ILE:O	1.56	1.06
1:B:332:ILE:CD1	1:B:702:LEU:HD22	1.83	1.06
1:B:407:THR:HG23	1:B:517:ARG:HG2	1.35	1.06
1:B:667:LEU:O	1:B:669:PRO:CD	2.03	1.06
1:A:597:VAL:HA	1:A:600:PHE:HD2	1.03	1.05
1:A:731:VAL:O	1:A:734:LEU:CD2	2.04	1.05
1:B:65:GLU:O	1:B:65:GLU:HG3	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:PHE:HE2	1:B:706:LEU:CA	1.68	1.05
1:B:346:MET:CG	1:B:363:LEU:HD23	1.85	1.05
1:B:407:THR:O	1:B:527:LEU:CD1	2.03	1.05
1:B:518:LYS:HD2	1:B:523:SER:HB2	1.10	1.05
1:B:543:THR:CG2	1:B:675:ILE:HG13	1.84	1.05
1:B:592:MET:N	1:B:592:MET:SD	2.24	1.05
1:B:697:ALA:HB2	1:B:765:VAL:HG23	1.30	1.05
1:A:305:LEU:CD2	1:A:329:ILE:CG2	2.33	1.05
1:A:385:LYS:HE3	1:A:537:ARG:HB2	1.35	1.05
1:B:78:ASP:CA	1:B:81:GLN:CG	2.35	1.05
1:B:325:PHE:CZ	1:B:709:TRP:CD1	2.45	1.05
1:B:328:ALA:O	1:B:331:ILE:HG22	1.56	1.05
1:B:443:TYR:HD1	1:B:445:VAL:HG23	1.13	1.05
1:B:566:ARG:HH22	1:B:570:ARG:NH1	1.52	1.05
1:B:676:ASP:OD1	1:B:679:LYS:NZ	1.89	1.05
1:B:682:ARG:NH1	1:B:744:SER:CB	2.19	1.05
1:A:430:LEU:HG	1:A:439:VAL:HG11	1.39	1.05
1:A:459:VAL:HG22	1:A:473:VAL:HG22	1.38	1.05
1:A:859:ARG:HG2	1:B:309:TRP:CH2	1.90	1.05
1:B:308:VAL:HG12	1:B:710:ILE:HG13	1.37	1.05
1:B:443:TYR:CD1	1:B:445:VAL:HG23	1.92	1.05
1:B:459:VAL:HG22	1:B:473:VAL:HG22	1.38	1.05
1:B:821:SER:C	1:B:823:PRO:CD	2.29	1.05
1:A:78:ASP:CA	1:A:81:GLN:CG	2.35	1.05
1:A:325:PHE:CZ	1:A:709:TRP:CD1	2.45	1.05
1:A:332:ILE:CD1	1:A:702:LEU:HD22	1.83	1.05
1:A:411:ALA:O	1:A:515:VAL:CG1	2.04	1.05
1:A:471:THR:OG1	1:A:519:ARG:HA	1.54	1.05
1:A:543:THR:CG2	1:A:675:ILE:HG13	1.84	1.05
1:A:679:LYS:HA	1:A:682:ARG:CZ	1.86	1.05
1:A:689:TYR:CD1	1:A:761:LEU:HD22	1.92	1.05
1:A:719:ILE:O	1:A:723:VAL:HG13	1.54	1.05
1:A:772:ILE:HA	1:A:775:THR:OG1	1.56	1.05
1:B:24:LYS:HE3	1:B:171:GLU:HB3	1.38	1.05
1:B:70:GLY:C	1:B:230:LEU:CD2	2.28	1.05
1:B:93:VAL:CG1	1:B:197:VAL:CG1	2.35	1.05
1:B:772:ILE:HA	1:B:775:THR:OG1	1.56	1.05
1:A:24:LYS:HE3	1:A:171:GLU:HB3	1.38	1.05
1:A:78:ASP:HA	1:A:81:GLN:HG2	1.05	1.05
1:A:86:VAL:HB	1:A:261:THR:HG23	1.36	1.05
1:A:407:THR:HG22	1:A:517:ARG:HB3	1.19	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:THR:O	1:A:527:LEU:HD13	1.57	1.05
1:A:552:LEU:HD22	1:A:678:LEU:HD21	1.39	1.05
1:A:667:LEU:O	1:A:669:PRO:CD	2.03	1.05
1:B:86:VAL:HB	1:B:261:THR:HG23	1.36	1.05
1:B:227:GLN:OE1	1:B:246:PHE:HE2	1.40	1.05
1:B:689:TYR:CD1	1:B:761:LEU:HD22	1.92	1.05
1:B:893:PRO:C	1:B:894:LYS:HG3	1.80	1.05
1:A:93:VAL:CG1	1:A:197:VAL:CG1	2.35	1.04
1:A:433:TYR:HB3	1:A:434:PRO:CD	1.87	1.04
1:A:433:TYR:HB3	1:A:434:PRO:HD3	1.35	1.04
1:A:442:LYS:HG3	1:A:443:TYR:H	0.89	1.04
1:A:506:ALA:N	1:A:510:PHE:CD2	2.24	1.04
1:A:694:TYR:CD1	1:A:809:ILE:N	2.25	1.04
1:A:818:PHE:CB	1:A:875:TYR:CB	2.34	1.04
1:B:308:VAL:CG1	1:B:710:ILE:HG13	1.87	1.04
1:B:325:PHE:CD2	1:B:710:ILE:HD11	1.92	1.04
1:B:506:ALA:N	1:B:510:PHE:CD2	2.24	1.04
1:B:537:ARG:CG	1:B:538:HIS:H	1.68	1.04
1:B:768:VAL:HG21	1:B:811:ILE:CD1	1.87	1.04
1:A:9:ALA:HB3	1:A:10:PRO:HD3	1.34	1.04
1:A:360:VAL:HG22	1:A:664:ILE:HG23	1.10	1.04
1:A:552:LEU:HD22	1:A:678:LEU:HD22	1.11	1.04
1:A:821:SER:C	1:A:823:PRO:CD	2.29	1.04
1:B:9:ALA:HB3	1:B:10:PRO:HD3	1.34	1.04
1:B:433:TYR:HB3	1:B:434:PRO:CD	1.87	1.04
1:B:536:PRO:HB3	1:B:572:LEU:HD13	1.36	1.04
1:B:557:LEU:CB	1:B:607:PHE:CE2	2.40	1.04
1:B:697:ALA:HB3	1:B:808:LEU:HD21	1.39	1.04
1:B:715:ARG:HG2	1:B:790:PHE:CG	1.92	1.04
1:B:810:PHE:CZ	1:B:823:PRO:HD2	1.90	1.04
1:A:53:GLU:OE2	1:A:272:ALA:HA	1.57	1.04
1:A:183:LEU:CD2	1:A:188:LEU:HG	1.86	1.04
1:A:227:GLN:OE1	1:A:246:PHE:HE2	1.40	1.04
1:A:566:ARG:HH22	1:A:570:ARG:NH1	1.52	1.04
1:A:768:VAL:HG21	1:A:811:ILE:CD1	1.87	1.04
1:B:325:PHE:HE2	1:B:706:LEU:C	1.65	1.04
1:B:360:VAL:HG22	1:B:664:ILE:HG23	1.10	1.04
1:A:100:TYR:HE2	1:A:103:ASN:HB3	1.22	1.04
1:A:328:ALA:O	1:A:331:ILE:HG22	1.56	1.04
1:A:443:TYR:CD1	1:A:445:VAL:HG23	1.92	1.04
1:A:715:ARG:HG2	1:A:790:PHE:CG	1.92	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:ALA:O	1:B:515:VAL:CG1	2.04	1.04
1:B:428:LYS:HE2	1:B:432:TYR:OH	1.54	1.04
1:B:430:LEU:HG	1:B:439:VAL:HG11	1.39	1.04
1:B:694:TYR:CD1	1:B:809:ILE:N	2.24	1.04
1:B:696:ILE:HG23	1:B:765:VAL:CG2	1.88	1.04
1:A:24:LYS:HD2	1:A:171:GLU:O	1.58	1.04
1:A:308:VAL:CG1	1:A:710:ILE:HG13	1.87	1.04
1:A:325:PHE:CD2	1:A:710:ILE:HD11	1.92	1.04
1:A:484:VAL:HG23	1:A:526:ILE:H	1.20	1.04
1:A:484:VAL:HB	1:A:526:ILE:HG23	1.39	1.04
1:A:691:TYR:HD1	1:A:734:LEU:O	1.37	1.04
1:A:696:ILE:HG23	1:A:765:VAL:HG21	1.09	1.04
1:B:24:LYS:HD2	1:B:171:GLU:O	1.57	1.04
1:B:146:VAL:HG21	1:B:719:ILE:HG13	1.06	1.04
1:B:552:LEU:HD22	1:B:678:LEU:HD21	1.39	1.04
1:B:679:LYS:HA	1:B:682:ARG:CZ	1.86	1.04
1:A:71:GLY:HA3	1:A:230:LEU:HG	1.40	1.03
1:A:143:ASP:O	1:A:146:VAL:HG22	1.56	1.03
1:A:557:LEU:CB	1:A:607:PHE:CE2	2.40	1.03
1:B:390:LEU:CB	1:B:531:PRO:O	2.06	1.03
1:B:683:GLN:CB	1:B:687:ARG:NH2	2.21	1.03
1:B:731:VAL:O	1:B:734:LEU:CD2	2.04	1.03
1:B:752:LEU:HB3	1:B:753:PRO:CD	1.88	1.03
1:A:325:PHE:HE2	1:A:706:LEU:C	1.65	1.03
1:A:407:THR:HB	1:A:527:LEU:HD22	1.35	1.03
1:A:442:LYS:HG2	1:A:443:TYR:N	1.38	1.03
1:A:517:ARG:HD2	1:A:518:LYS:N	1.72	1.03
1:A:676:ASP:OD1	1:A:679:LYS:NZ	1.89	1.03
1:B:17:GLU:HG2	1:B:189:LYS:NZ	1.74	1.03
1:B:78:ASP:HA	1:B:81:GLN:HG2	1.05	1.03
1:B:247:ALA:HB3	1:B:269:VAL:HB	1.39	1.03
1:B:407:THR:O	1:B:527:LEU:HD13	1.57	1.03
1:B:557:LEU:HB3	1:B:607:PHE:CE2	1.93	1.03
1:A:28:ALA:HB1	1:A:170:ASP:HB2	1.19	1.03
1:A:31:TYR:HD1	1:A:98:ARG:HB3	1.18	1.03
1:A:305:LEU:HD22	1:A:329:ILE:HG21	1.04	1.03
1:A:683:GLN:CB	1:A:687:ARG:NH2	2.21	1.03
1:A:782:GLU:HG3	1:A:783:ASN:N	1.64	1.03
1:B:319:ILE:HG13	1:B:322:ILE:HD11	1.40	1.03
1:B:484:VAL:HG23	1:B:526:ILE:H	1.20	1.03
1:B:517:ARG:HD2	1:B:518:LYS:N	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:LYS:O	1:B:519:ARG:HG3	0.85	1.03
1:B:782:GLU:HG3	1:B:783:ASN:N	1.64	1.03
1:A:325:PHE:CE2	1:A:706:LEU:C	2.37	1.03
1:A:443:TYR:HD1	1:A:445:VAL:HG23	1.13	1.03
1:A:594:GLY:O	1:A:597:VAL:HG13	1.58	1.03
1:A:696:ILE:HG23	1:A:765:VAL:CG2	1.88	1.03
1:B:44:ASP:O	1:B:48:LEU:HD23	1.56	1.03
1:B:309:TRP:HB2	1:B:326:THR:CG2	1.88	1.03
1:B:325:PHE:CE2	1:B:706:LEU:C	2.37	1.03
1:B:442:LYS:HG2	1:B:443:TYR:N	1.38	1.03
1:B:506:ALA:CA	1:B:510:PHE:HD2	1.71	1.03
1:A:293:ILE:HD13	1:A:756:TRP:CH2	1.93	1.03
1:A:329:ILE:HG12	1:A:706:LEU:HD12	1.03	1.03
1:A:399:VAL:CB	1:A:404:LEU:CD2	2.27	1.03
1:B:31:TYR:HD1	1:B:98:ARG:HB3	1.17	1.03
1:B:697:ALA:CA	1:B:765:VAL:CG2	2.37	1.03
1:A:6:ALA:O	1:A:10:PRO:CG	2.07	1.02
1:A:71:GLY:HA3	1:A:230:LEU:CG	1.89	1.02
1:A:210:ILE:HG21	1:A:245:VAL:HG22	1.40	1.02
1:A:315:ARG:HB2	1:A:710:ILE:O	1.56	1.02
1:A:390:LEU:CB	1:A:531:PRO:O	2.06	1.02
1:A:409:CYS:SG	1:A:439:VAL:HG22	1.97	1.02
1:A:566:ARG:NH2	1:A:570:ARG:NH1	2.07	1.02
1:A:648:GLY:C	1:A:662:ALA:HB1	1.84	1.02
1:A:675:ILE:O	1:A:679:LYS:HG3	1.58	1.02
1:A:803:LEU:HG	1:A:807:TRP:HE1	1.14	1.02
1:A:893:PRO:C	1:A:894:LYS:HG3	1.80	1.02
1:B:6:ALA:O	1:B:10:PRO:CG	2.07	1.02
1:B:46:ASP:O	1:B:49:ILE:CG1	2.07	1.02
1:B:71:GLY:HA3	1:B:230:LEU:CG	1.89	1.02
1:B:96:ARG:HG2	1:B:96:ARG:HH11	1.23	1.02
1:B:100:TYR:HE2	1:B:103:ASN:HB3	1.22	1.02
1:B:210:ILE:HG23	1:B:245:VAL:CG2	1.88	1.02
1:B:247:ALA:CB	1:B:269:VAL:HB	1.89	1.02
1:B:305:LEU:HD22	1:B:329:ILE:HG21	1.04	1.02
1:B:325:PHE:O	1:B:329:ILE:HG13	1.59	1.02
1:B:409:CYS:SG	1:B:439:VAL:HG22	1.97	1.02
1:B:679:LYS:HB3	1:B:743:TYR:OH	1.60	1.02
1:A:156:VAL:O	1:A:160:VAL:HG23	1.57	1.02
1:A:325:PHE:O	1:A:329:ILE:HG13	1.59	1.02
1:A:385:LYS:HE3	1:A:536:PRO:O	1.57	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:LYS:O	1:A:519:ARG:HG3	0.85	1.02
1:A:697:ALA:CA	1:A:765:VAL:CG2	2.37	1.02
1:A:752:LEU:HB3	1:A:753:PRO:CD	1.88	1.02
1:B:210:ILE:HG21	1:B:245:VAL:HG22	1.40	1.02
1:A:44:ASP:O	1:A:48:LEU:HD23	1.56	1.02
1:A:380:THR:HG21	1:A:388:LEU:HB2	1.40	1.02
1:A:506:ALA:CA	1:A:510:PHE:HD2	1.71	1.02
1:A:557:LEU:HB3	1:A:607:PHE:CE2	1.93	1.02
1:B:53:GLU:OE2	1:B:272:ALA:HA	1.57	1.02
1:B:305:LEU:HD11	1:B:329:ILE:HG22	1.39	1.02
1:B:399:VAL:HG12	1:B:401:PRO:HD2	1.35	1.02
1:B:442:LYS:HG3	1:B:443:TYR:H	0.89	1.02
1:B:594:GLY:O	1:B:597:VAL:HG13	1.58	1.02
1:B:648:GLY:C	1:B:662:ALA:HB1	1.84	1.02
1:B:698:LEU:HB2	1:B:808:LEU:HD23	1.42	1.02
1:B:706:LEU:HD23	1:B:717:LEU:CD1	1.78	1.02
1:A:93:VAL:CG1	1:A:97:ARG:NE	2.22	1.02
1:A:290:LEU:HD23	1:A:756:TRP:NE1	1.74	1.02
1:A:346:MET:SD	1:A:363:LEU:CB	2.47	1.02
1:A:536:PRO:HB3	1:A:572:LEU:HD13	1.36	1.02
1:A:679:LYS:HB3	1:A:743:TYR:OH	1.60	1.02
1:B:201:ILE:HG21	1:B:257:PHE:CZ	1.95	1.02
1:B:301:VAL:O	1:B:305:LEU:HG	1.60	1.02
1:B:566:ARG:NH2	1:B:570:ARG:NH1	2.07	1.02
1:A:17:GLU:HG2	1:A:189:LYS:NZ	1.74	1.02
1:A:70:GLY:CA	1:A:268:PHE:CE1	2.41	1.02
1:A:247:ALA:CB	1:A:269:VAL:HB	1.89	1.02
1:A:309:TRP:HB2	1:A:326:THR:CG2	1.88	1.02
1:A:501:LYS:CG	1:A:505:PHE:CE2	2.43	1.02
1:A:518:LYS:HB2	1:A:523:SER:HB3	1.06	1.02
1:A:683:GLN:O	1:A:687:ARG:CG	2.07	1.02
1:A:862:ILE:CD1	1:B:309:TRP:CZ3	2.42	1.02
1:B:156:VAL:O	1:B:160:VAL:HG23	1.57	1.02
1:B:329:ILE:HG12	1:B:706:LEU:HD12	1.03	1.02
1:B:818:PHE:CB	1:B:875:TYR:CB	2.34	1.02
1:A:46:ASP:O	1:A:49:ILE:CG1	2.08	1.01
1:A:96:ARG:HH11	1:A:96:ARG:HG2	1.23	1.01
1:A:201:ILE:HG21	1:A:257:PHE:CZ	1.95	1.01
1:A:210:ILE:HG23	1:A:245:VAL:CG2	1.88	1.01
1:A:510:PHE:CE1	1:A:512:SER:HB3	1.94	1.01
1:B:74:VAL:CG2	1:B:75:VAL:H	1.71	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:293:ILE:HD13	1:B:756:TRP:CH2	1.93	1.01
1:B:484:VAL:HB	1:B:526:ILE:HG23	1.39	1.01
1:B:592:MET:CB	1:B:593:PRO:CD	2.38	1.01
1:B:675:ILE:O	1:B:679:LYS:HG3	1.58	1.01
1:B:683:GLN:O	1:B:687:ARG:CG	2.07	1.01
1:A:193:ALA:HA	1:A:196:VAL:CG2	1.90	1.01
1:A:697:ALA:HB3	1:A:808:LEU:HD21	1.39	1.01
1:B:82:THR:HG21	1:B:244:GLN:HE22	1.02	1.01
1:B:290:LEU:HD23	1:B:756:TRP:NE1	1.74	1.01
1:B:415:LYS:HE2	1:B:511:ARG:HD2	1.02	1.01
1:B:501:LYS:HE3	1:B:505:PHE:CZ	1.96	1.01
1:B:510:PHE:CE1	1:B:512:SER:HB3	1.94	1.01
1:A:28:ALA:CB	1:A:170:ASP:HB2	1.68	1.01
1:A:74:VAL:CG2	1:A:75:VAL:H	1.71	1.01
1:A:247:ALA:HB3	1:A:269:VAL:HB	1.39	1.01
1:A:301:VAL:O	1:A:305:LEU:HG	1.60	1.01
1:A:319:ILE:HG13	1:A:322:ILE:HD11	1.40	1.01
1:A:809:ILE:CD1	1:A:827:LEU:HD21	1.91	1.01
1:A:814:ALA:CB	1:A:817:PRO:CG	2.39	1.01
1:B:49:ILE:HG22	1:B:275:LEU:HB3	1.43	1.01
1:B:143:ASP:O	1:B:146:VAL:HG22	1.56	1.01
1:B:290:LEU:CD2	1:B:756:TRP:HE1	1.73	1.01
1:B:380:THR:HG21	1:B:388:LEU:HB2	1.40	1.01
1:B:385:LYS:HE3	1:B:536:PRO:O	1.57	1.01
1:B:715:ARG:CG	1:B:790:PHE:CD2	2.44	1.01
1:B:804:THR:HA	1:B:807:TRP:CD2	1.95	1.01
1:A:146:VAL:HG21	1:A:719:ILE:HG13	1.06	1.01
1:A:413:SER:OG	1:A:474:LYS:HD3	1.60	1.01
1:A:652:GLU:CG	1:A:667:LEU:CD1	2.38	1.01
1:B:70:GLY:HA2	1:B:75:VAL:HG21	1.38	1.01
1:B:93:VAL:CG1	1:B:97:ARG:NE	2.22	1.01
1:B:150:LEU:HD22	1:B:723:VAL:HG12	1.43	1.01
1:B:305:LEU:HD12	1:B:330:THR:N	1.74	1.01
1:B:459:VAL:CG2	1:B:473:VAL:HG22	1.90	1.01
1:B:518:LYS:HB2	1:B:523:SER:HB3	1.06	1.01
1:B:790:PHE:CD2	1:B:793:MET:CB	2.44	1.01
1:B:803:LEU:HG	1:B:807:TRP:HE1	1.14	1.01
1:A:375:LEU:CD1	1:A:552:LEU:HD21	1.90	1.01
1:A:459:VAL:CG2	1:A:473:VAL:HG22	1.90	1.01
1:A:698:LEU:HB2	1:A:808:LEU:HD23	1.42	1.01
1:B:70:GLY:CA	1:B:268:PHE:CE1	2.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:LYS:HD3	1:B:243:ASP:CG	1.86	1.01
1:B:375:LEU:CD1	1:B:552:LEU:HD21	1.90	1.01
1:B:399:VAL:CB	1:B:404:LEU:CD2	2.27	1.01
1:A:49:ILE:CG2	1:A:275:LEU:HB3	1.91	1.00
1:A:501:LYS:HE3	1:A:505:PHE:CZ	1.96	1.00
1:B:31:TYR:CD1	1:B:98:ARG:HB3	1.96	1.00
1:B:652:GLU:CG	1:B:667:LEU:CD1	2.38	1.00
1:B:809:ILE:CD1	1:B:827:LEU:HD21	1.91	1.00
1:A:484:VAL:HG21	1:A:526:ILE:CG2	1.92	1.00
1:A:697:ALA:O	1:A:700:ILE:HG22	1.61	1.00
1:A:796:VAL:CG1	1:A:800:GLN:NE2	2.24	1.00
1:A:803:LEU:O	1:A:806:ASN:HB2	1.61	1.00
1:B:28:ALA:HB1	1:B:170:ASP:HB2	1.19	1.00
1:B:93:VAL:CG2	1:B:197:VAL:CG1	2.39	1.00
1:B:346:MET:SD	1:B:363:LEU:CB	2.47	1.00
1:B:374:ILE:HD13	1:B:553:SER:HB3	1.41	1.00
1:B:427:LEU:CA	1:B:440:LEU:CD2	2.39	1.00
1:B:483:THR:HG22	1:B:524:TRP:HB3	1.39	1.00
1:B:484:VAL:HG21	1:B:526:ILE:CG2	1.92	1.00
1:B:501:LYS:CG	1:B:505:PHE:CE2	2.42	1.00
1:B:796:VAL:CG1	1:B:800:GLN:NE2	2.24	1.00
1:B:814:ALA:CB	1:B:817:PRO:CG	2.39	1.00
1:A:290:LEU:CD2	1:A:756:TRP:HE1	1.73	1.00
1:A:483:THR:HG22	1:A:524:TRP:HB3	1.39	1.00
1:A:712:ILE:HG22	1:A:713:LEU:N	1.64	1.00
1:A:715:ARG:CG	1:A:790:PHE:CD2	2.44	1.00
1:A:790:PHE:CD2	1:A:793:MET:CB	2.44	1.00
1:B:71:GLY:N	1:B:230:LEU:CD2	2.24	1.00
1:B:193:ALA:HA	1:B:196:VAL:CG2	1.90	1.00
1:B:433:TYR:CB	1:B:434:PRO:CD	2.40	1.00
1:B:506:ALA:HB2	1:B:510:PHE:CE2	1.96	1.00
1:A:31:TYR:C	1:A:33:PRO:HD2	1.86	1.00
1:A:49:ILE:HD12	1:A:275:LEU:O	1.60	1.00
1:A:305:LEU:HD12	1:A:330:THR:N	1.74	1.00
1:A:485:GLU:CA	1:A:490:ILE:HD11	1.91	1.00
1:A:724:PHE:CZ	1:A:837:LEU:HB3	1.96	1.00
1:B:71:GLY:HA3	1:B:230:LEU:HG	1.40	1.00
1:B:413:SER:OG	1:B:474:LYS:HD3	1.60	1.00
1:B:592:MET:CB	1:B:593:PRO:HD3	1.91	1.00
1:A:150:LEU:HD22	1:A:723:VAL:HG12	1.43	1.00
1:A:239:LYS:HD3	1:A:243:ASP:CG	1.86	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:687:ARG:CZ	1:A:739:ASP:HA	1.92	1.00
1:A:855:VAL:CB	1:B:319:ILE:HG21	1.92	1.00
1:A:415:LYS:HE2	1:A:511:ARG:HD2	1.02	1.00
1:B:91:GLU:O	1:B:94:VAL:HG12	1.61	1.00
1:B:150:LEU:HD13	1:B:723:VAL:HB	1.44	1.00
1:B:309:TRP:CB	1:B:326:THR:CG2	2.40	1.00
1:B:732:ALA:O	1:B:735:ALA:CB	2.09	1.00
1:B:814:ALA:HB3	1:B:817:PRO:HG2	1.00	1.00
1:A:267:THR:HG22	1:A:270:GLY:N	1.76	1.00
1:B:697:ALA:O	1:B:700:ILE:HG22	1.61	1.00
1:A:70:GLY:HA2	1:A:75:VAL:HG21	1.38	0.99
1:A:193:ALA:CA	1:A:196:VAL:HG22	1.92	0.99
1:A:506:ALA:HB2	1:A:510:PHE:CE2	1.96	0.99
1:A:808:LEU:HD13	1:A:811:ILE:HD11	1.42	0.99
1:B:331:ILE:O	1:B:334:VAL:HG22	1.62	0.99
1:A:93:VAL:CG2	1:A:197:VAL:CG1	2.39	0.99
1:A:305:LEU:HD11	1:A:329:ILE:HG22	1.39	0.99
1:A:331:ILE:O	1:A:334:VAL:HG22	1.62	0.99
1:B:24:LYS:HE3	1:B:171:GLU:CB	1.92	0.99
1:B:68:THR:OG1	1:B:69:PRO:HD3	1.61	0.99
1:B:332:ILE:O	1:B:695:ARG:NH2	1.95	0.99
1:B:803:LEU:O	1:B:806:ASN:HB2	1.61	0.99
1:B:808:LEU:HD12	1:B:811:ILE:CG1	1.92	0.99
1:A:24:LYS:HE3	1:A:171:GLU:CB	1.93	0.99
1:A:68:THR:OG1	1:A:69:PRO:HD3	1.61	0.99
1:A:427:LEU:CA	1:A:440:LEU:CD2	2.39	0.99
1:B:49:ILE:CG2	1:B:275:LEU:HB3	1.91	0.99
1:B:808:LEU:HD13	1:B:811:ILE:HD11	1.42	0.99
1:A:74:VAL:C	1:A:76:PRO:HD3	1.86	0.99
1:A:804:THR:HA	1:A:807:TRP:CD2	1.95	0.99
1:B:267:THR:HG22	1:B:270:GLY:N	1.76	0.99
1:A:732:ALA:O	1:A:735:ALA:CB	2.09	0.99
1:A:803:LEU:HD22	1:A:860:ILE:HG21	1.45	0.99
1:B:210:ILE:CG2	1:B:245:VAL:CG2	2.41	0.99
1:A:210:ILE:CG2	1:A:245:VAL:CG2	2.41	0.99
1:A:481:LEU:HD22	1:A:498:TYR:CE2	1.97	0.99
1:A:592:MET:CB	1:A:593:PRO:HD3	1.91	0.99
1:B:49:ILE:HD12	1:B:275:LEU:O	1.60	0.99
1:B:74:VAL:C	1:B:76:PRO:HD3	1.86	0.99
1:A:49:ILE:HG22	1:A:275:LEU:HB3	1.43	0.99
1:A:592:MET:CB	1:A:593:PRO:CD	2.38	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:290:LEU:CD2	1:B:756:TRP:NE1	2.26	0.99
1:B:724:PHE:CZ	1:B:837:LEU:HB3	1.96	0.99
1:A:70:GLY:C	1:A:230:LEU:HD23	1.88	0.99
1:A:71:GLY:N	1:A:230:LEU:CD2	2.24	0.99
1:A:178:LEU:HD22	1:A:659:ARG:NH2	1.77	0.99
1:A:183:LEU:HD23	1:A:188:LEU:HA	1.45	0.99
1:A:712:ILE:HG22	1:A:713:LEU:H	0.83	0.99
1:B:308:VAL:HG13	1:B:707:GLY:HA2	0.99	0.99
1:B:415:LYS:NZ	1:B:560:ASP:OD1	1.96	0.99
1:B:426:PHE:O	1:B:430:LEU:HD22	1.62	0.99
1:B:481:LEU:HD22	1:B:498:TYR:CE2	1.97	0.99
1:B:537:ARG:HG2	1:B:538:HIS:N	1.73	0.99
1:B:612:PRO:O	1:B:614:HIS:N	1.94	0.99
1:B:803:LEU:HG	1:B:807:TRP:CE2	1.97	0.99
1:B:807:TRP:HB3	1:B:867:ILE:HG12	1.45	0.99
1:A:23:GLU:O	1:A:27:GLU:HG3	1.63	0.99
1:A:91:GLU:O	1:A:94:VAL:HG12	1.61	0.99
1:A:150:LEU:HD13	1:A:723:VAL:HB	1.44	0.99
1:A:374:ILE:HD13	1:A:553:SER:HB3	1.41	0.99
1:A:415:LYS:NZ	1:A:560:ASP:OD1	1.96	0.99
1:A:803:LEU:HG	1:A:807:TRP:CE2	1.97	0.99
1:A:240:HIS:O	1:A:241:LYS:O	1.81	0.99
1:A:390:LEU:CD2	1:A:532:CYS:CB	2.18	0.99
1:B:24:LYS:HD2	1:B:171:GLU:CB	1.93	0.99
1:B:543:THR:CG2	1:B:675:ILE:CG1	2.40	0.99
1:A:31:TYR:CD1	1:A:98:ARG:HB3	1.96	0.98
1:A:96:ARG:HH11	1:A:96:ARG:CG	1.75	0.98
1:A:106:LYS:HZ1	1:A:361:GLN:NE2	1.59	0.98
1:A:433:TYR:CB	1:A:434:PRO:CD	2.40	0.98
1:A:591:ASP:HA	1:A:592:MET:HE1	0.99	0.98
1:A:808:LEU:HD12	1:A:811:ILE:CG1	1.92	0.98
1:B:193:ALA:CA	1:B:196:VAL:HG22	1.92	0.98
1:B:774:VAL:O	1:B:777:MET:HG3	1.63	0.98
1:A:557:LEU:CG	1:A:607:PHE:CE2	2.47	0.98
1:A:309:TRP:CB	1:A:326:THR:CG2	2.40	0.98
1:B:96:ARG:HH11	1:B:96:ARG:CG	1.75	0.98
1:B:803:LEU:HD22	1:B:860:ILE:HG21	1.45	0.98
1:A:290:LEU:CD2	1:A:756:TRP:NE1	2.26	0.98
1:B:88:LEU:HD13	1:B:93:VAL:HG23	1.01	0.98
1:B:309:TRP:CD1	1:B:322:ILE:CG1	2.46	0.98
1:B:485:GLU:CA	1:B:490:ILE:HD11	1.91	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:HIS:CD2	1:A:286:PHE:H	1.81	0.98
1:A:332:ILE:O	1:A:695:ARG:NH2	1.95	0.98
1:A:612:PRO:O	1:A:614:HIS:N	1.94	0.98
1:A:697:ALA:HA	1:A:765:VAL:CG2	1.94	0.98
1:B:31:TYR:C	1:B:33:PRO:HD2	1.86	0.98
1:B:240:HIS:O	1:B:241:LYS:O	1.81	0.98
1:A:543:THR:CG2	1:A:675:ILE:CG1	2.40	0.98
1:A:706:LEU:HD22	1:A:717:LEU:HD13	1.31	0.98
1:A:814:ALA:HB3	1:A:817:PRO:CG	1.93	0.98
1:B:101:GLY:O	1:B:194:PRO:HB3	1.63	0.98
1:B:583:ARG:HB2	1:B:603:ALA:HB1	1.43	0.98
1:B:600:PHE:CE1	1:B:907:VAL:HG23	1.89	0.98
1:B:687:ARG:CZ	1:B:739:ASP:HA	1.92	0.98
1:A:24:LYS:CD	1:A:171:GLU:CB	2.41	0.98
1:A:82:THR:HG21	1:A:244:GLN:HE22	1.02	0.98
1:A:676:ASP:HA	1:A:679:LYS:CD	1.94	0.98
1:B:308:VAL:O	1:B:710:ILE:HG21	1.64	0.98
1:B:557:LEU:CG	1:B:607:PHE:CE2	2.47	0.98
1:B:697:ALA:HA	1:B:765:VAL:CG2	1.94	0.98
1:A:308:VAL:HG13	1:A:707:GLY:HA2	0.99	0.98
1:A:426:PHE:O	1:A:430:LEU:HD22	1.62	0.98
1:A:506:ALA:HB2	1:A:510:PHE:CD2	1.99	0.98
1:A:592:MET:HB2	1:A:593:PRO:HD3	0.98	0.98
1:B:24:LYS:CD	1:B:171:GLU:CB	2.41	0.98
1:B:506:ALA:HB2	1:B:510:PHE:CD2	1.99	0.98
1:A:88:LEU:HD13	1:A:93:VAL:HG23	1.01	0.98
1:A:543:THR:HG23	1:A:675:ILE:HG12	1.44	0.98
1:A:698:LEU:HD21	1:A:805:GLU:HB3	0.98	0.98
1:B:814:ALA:HB3	1:B:817:PRO:CG	1.93	0.98
1:A:77:GLU:O	1:A:80:LEU:CD2	2.12	0.98
1:B:676:ASP:HA	1:B:679:LYS:CD	1.94	0.98
1:A:290:LEU:O	1:A:293:ILE:HG22	1.63	0.97
1:A:807:TRP:HB3	1:A:867:ILE:HG12	1.45	0.97
1:A:869:CYS:HB2	1:B:299:ILE:HD12	1.42	0.97
1:B:23:GLU:O	1:B:27:GLU:HG3	1.63	0.97
1:B:183:LEU:HD21	1:B:188:LEU:CG	1.94	0.97
1:B:592:MET:HB2	1:B:593:PRO:HD3	0.98	0.97
1:A:24:LYS:HD2	1:A:171:GLU:CB	1.93	0.97
1:A:385:LYS:CE	1:A:537:ARG:HB2	1.94	0.97
1:A:678:LEU:O	1:A:682:ARG:CG	2.13	0.97
1:A:780:GLN:HA	1:A:783:ASN:HB2	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:822:ILE:N	1:A:823:PRO:CD	2.27	0.97
1:B:34:LYS:HB3	1:B:35:PRO:HD3	1.47	0.97
1:B:178:LEU:HD22	1:B:659:ARG:NH2	1.77	0.97
1:A:309:TRP:CD1	1:A:322:ILE:CG1	2.46	0.97
1:A:859:ARG:CG	1:B:319:ILE:HD11	1.92	0.97
1:B:94:VAL:HG22	1:B:98:ARG:HH21	1.30	0.97
1:B:796:VAL:CG1	1:B:800:GLN:HE21	1.77	0.97
1:A:24:LYS:HE3	1:A:171:GLU:CG	1.94	0.97
1:A:101:GLY:O	1:A:194:PRO:HB3	1.63	0.97
1:A:309:TRP:HA	1:A:322:ILE:HB	1.46	0.97
1:B:290:LEU:O	1:B:293:ILE:HG22	1.63	0.97
1:B:415:LYS:CE	1:B:511:ARG:HD2	1.93	0.97
1:B:451:PHE:CB	1:B:458:VAL:HG12	1.94	0.97
1:B:698:LEU:HD21	1:B:805:GLU:HB3	0.98	0.97
1:B:756:TRP:CD2	1:B:757:GLY:N	2.32	0.97
1:A:685:PHE:CD1	1:A:749:LYS:HE2	1.99	0.97
1:A:698:LEU:HD21	1:A:805:GLU:CG	1.95	0.97
1:B:822:ILE:N	1:B:823:PRO:CD	2.27	0.97
1:A:246:PHE:CB	1:A:268:PHE:CG	2.47	0.97
1:A:325:PHE:CE2	1:A:706:LEU:CA	2.46	0.97
1:A:485:GLU:HA	1:A:490:ILE:HD11	1.00	0.97
1:B:685:PHE:CD1	1:B:749:LYS:HE2	1.99	0.97
1:B:712:ILE:HG22	1:B:713:LEU:H	0.83	0.97
1:A:592:MET:HE2	1:A:592:MET:N	1.79	0.97
1:A:774:VAL:O	1:A:777:MET:HG3	1.63	0.97
1:A:689:TYR:CD2	1:A:815:ASN:HB2	2.00	0.97
1:B:285:HIS:CD2	1:B:286:PHE:H	1.81	0.97
1:B:385:LYS:CE	1:B:537:ARG:HB2	1.94	0.97
1:B:678:LEU:O	1:B:682:ARG:CG	2.13	0.97
1:A:453:PRO:HA	1:A:592:MET:CG	1.93	0.97
1:B:77:GLU:O	1:B:80:LEU:CD2	2.12	0.97
1:B:82:THR:CG2	1:B:244:GLN:HE22	1.67	0.97
1:B:243:ASP:CG	1:B:244:GLN:H	1.73	0.97
1:B:518:LYS:HB2	1:B:523:SER:CB	1.94	0.97
1:B:591:ASP:HA	1:B:592:MET:HE1	0.99	0.97
1:A:566:ARG:NE	1:A:567:GLU:CD	2.14	0.97
1:A:736:ILE:CG2	1:A:738:TYR:HE1	1.77	0.97
1:B:70:GLY:C	1:B:230:LEU:HD23	1.88	0.97
1:B:267:THR:HG22	1:B:270:GLY:H	1.30	0.97
1:B:615:LYS:O	1:B:618:VAL:HG22	1.63	0.97
1:B:689:TYR:CD2	1:B:815:ASN:HB2	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:183:LEU:HD21	1:A:188:LEU:CG	1.94	0.96
1:A:267:THR:HG22	1:A:270:GLY:H	1.30	0.96
1:A:451:PHE:CB	1:A:458:VAL:HG12	1.94	0.96
1:A:615:LYS:O	1:A:618:VAL:HG22	1.63	0.96
1:A:869:CYS:HB2	1:B:299:ILE:CD1	1.95	0.96
1:B:183:LEU:HD23	1:B:188:LEU:HA	1.45	0.96
1:B:453:PRO:HA	1:B:592:MET:CG	1.93	0.96
1:B:691:TYR:CD1	1:B:734:LEU:O	2.18	0.96
1:B:780:GLN:HA	1:B:783:ASN:HB2	1.44	0.96
1:A:94:VAL:HG22	1:A:98:ARG:HH21	1.30	0.96
1:A:278:ALA:O	1:A:279:ALA:CB	2.13	0.96
1:A:289:VAL:HG13	1:A:756:TRP:HB2	1.44	0.96
1:A:308:VAL:O	1:A:710:ILE:HG21	1.64	0.96
1:A:814:ALA:HB3	1:A:817:PRO:HG2	1.00	0.96
1:B:557:LEU:HG	1:B:607:PHE:HD2	1.04	0.96
1:A:648:GLY:O	1:A:662:ALA:CB	2.13	0.96
1:A:733:THR:HB	1:A:809:ILE:HD12	1.45	0.96
1:B:100:TYR:CE2	1:B:103:ASN:HB3	1.99	0.96
1:A:34:LYS:HB3	1:A:35:PRO:HD3	1.47	0.96
1:A:74:VAL:HB	1:A:76:PRO:CG	1.95	0.96
1:A:289:VAL:HG11	1:A:756:TRP:CA	1.95	0.96
1:A:374:ILE:HD12	1:A:553:SER:HB3	0.97	0.96
1:B:803:LEU:CG	1:B:807:TRP:HE1	1.78	0.96
1:A:100:TYR:CE2	1:A:103:ASN:HB3	1.99	0.96
1:A:679:LYS:HG2	1:A:682:ARG:HH22	1.21	0.96
1:A:790:PHE:CE2	1:A:793:MET:CB	2.48	0.96
1:B:698:LEU:HD21	1:B:805:GLU:CG	1.95	0.96
1:B:808:LEU:CD1	1:B:811:ILE:CD1	2.07	0.96
1:A:111:ASN:O	1:A:112:HIS:ND1	1.99	0.96
1:A:308:VAL:CG1	1:A:707:GLY:HA2	1.95	0.96
1:A:889:HIS:O	1:A:893:PRO:CD	2.14	0.96
1:B:485:GLU:HA	1:B:490:ILE:HD11	1.00	0.96
1:A:518:LYS:HB2	1:A:523:SER:CB	1.94	0.96
1:A:566:ARG:HH11	1:A:579:TYR:HD1	1.04	0.96
1:B:790:PHE:CE2	1:B:793:MET:CB	2.48	0.96
1:B:889:HIS:O	1:B:893:PRO:CD	2.14	0.96
1:A:24:LYS:CE	1:A:171:GLU:CB	2.44	0.96
1:A:427:LEU:N	1:A:440:LEU:CD2	2.28	0.96
1:B:289:VAL:HG11	1:B:756:TRP:CA	1.95	0.96
1:B:325:PHE:CE2	1:B:706:LEU:CA	2.46	0.96
1:B:370:ALA:HA	1:B:681:SER:HB3	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:ASP:CG	1:A:244:GLN:H	1.73	0.96
1:A:415:LYS:CE	1:A:511:ARG:HD2	1.93	0.96
1:A:694:TYR:CE1	1:A:809:ILE:N	2.34	0.96
1:A:855:VAL:HB	1:B:319:ILE:HG21	0.97	0.96
1:A:247:ALA:HB3	1:A:269:VAL:CG2	1.96	0.96
1:A:518:LYS:CD	1:A:523:SER:HB3	1.92	0.96
1:A:756:TRP:CD2	1:A:757:GLY:N	2.33	0.96
1:B:592:MET:HE2	1:B:592:MET:N	1.79	0.96
1:B:679:LYS:HA	1:B:682:ARG:CD	1.96	0.96
1:B:736:ILE:CG2	1:B:738:TYR:HE1	1.77	0.96
1:B:811:ILE:CB	1:B:871:MET:HG3	1.96	0.96
1:A:375:LEU:HD13	1:A:552:LEU:HD21	0.96	0.95
1:A:537:ARG:HG2	1:A:538:HIS:N	1.73	0.95
1:A:796:VAL:CG1	1:A:800:GLN:HE21	1.77	0.95
1:B:374:ILE:HD12	1:B:553:SER:HB3	0.97	0.95
1:B:437:LYS:HD3	1:B:437:LYS:N	1.79	0.95
1:B:566:ARG:HH11	1:B:579:TYR:HD1	1.04	0.95
1:B:648:GLY:O	1:B:662:ALA:CB	2.13	0.95
1:B:24:LYS:CE	1:B:171:GLU:CB	2.44	0.95
1:B:24:LYS:HE3	1:B:171:GLU:CG	1.94	0.95
1:B:289:VAL:HG13	1:B:756:TRP:HB2	1.44	0.95
1:B:628:LEU:O	1:B:629:VAL:CG2	2.14	0.95
1:A:399:VAL:C	1:A:401:PRO:HD2	1.91	0.95
1:A:803:LEU:CG	1:A:807:TRP:HE1	1.78	0.95
1:A:37:VAL:O	1:A:37:VAL:CG1	2.11	0.95
1:B:164:GLN:O	1:B:168:ILE:HG13	1.67	0.95
1:B:694:TYR:CE1	1:B:809:ILE:N	2.34	0.95
1:A:289:VAL:CG1	1:A:756:TRP:CA	2.45	0.95
1:A:557:LEU:CG	1:A:607:PHE:CD2	2.48	0.95
1:A:607:PHE:CD1	1:A:610:VAL:CG2	2.49	0.95
1:A:790:PHE:CE2	1:A:793:MET:HB3	2.01	0.95
1:A:823:PRO:O	1:A:824:SER:O	1.85	0.95
1:B:111:ASN:O	1:B:112:HIS:ND1	1.99	0.95
1:B:246:PHE:CB	1:B:268:PHE:CG	2.47	0.95
1:B:557:LEU:CG	1:B:607:PHE:CD2	2.48	0.95
1:A:182:VAL:HG21	1:A:200:ASP:HB3	0.97	0.95
1:A:583:ARG:HB2	1:A:603:ALA:HB1	1.43	0.95
1:A:679:LYS:HA	1:A:682:ARG:CD	1.96	0.95
1:A:213:ASP:HB3	1:A:262:ALA:HB3	1.49	0.95
1:A:456:LYS:HD3	1:A:479:PHE:CD1	2.02	0.95
1:A:679:LYS:CA	1:A:682:ARG:NE	2.30	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:LYS:NZ	1:B:361:GLN:NE2	2.14	0.95
1:B:182:VAL:HG21	1:B:200:ASP:HB3	0.97	0.95
1:B:427:LEU:N	1:B:440:LEU:CD2	2.28	0.95
1:B:733:THR:HB	1:B:809:ILE:HD12	1.45	0.95
1:A:124:ILE:O	1:A:128:MET:HG2	1.66	0.95
1:A:691:TYR:CD1	1:A:734:LEU:O	2.18	0.95
1:B:694:TYR:CD1	1:B:809:ILE:CA	2.50	0.95
1:A:34:LYS:HB2	1:A:35:PRO:HD3	1.40	0.95
1:A:164:GLN:O	1:A:168:ILE:HG13	1.67	0.95
1:A:246:PHE:CG	1:A:268:PHE:CD2	2.55	0.95
1:A:694:TYR:CD1	1:A:809:ILE:CA	2.50	0.95
1:B:451:PHE:CE1	1:B:611:PHE:CE2	2.29	0.95
1:B:470:ILE:HD12	1:B:517:ARG:CD	1.97	0.95
1:B:607:PHE:CD1	1:B:610:VAL:HG23	2.02	0.95
1:B:679:LYS:CA	1:B:682:ARG:NE	2.30	0.95
1:B:803:LEU:HD23	1:B:860:ILE:HG23	1.46	0.95
1:B:818:PHE:HB3	1:B:875:TYR:HB2	1.38	0.95
1:B:823:PRO:O	1:B:824:SER:O	1.85	0.95
1:A:112:HIS:HB2	1:A:116:PHE:CD1	2.02	0.95
1:A:192:GLU:HG3	1:A:195:GLU:H	1.31	0.95
1:A:628:LEU:O	1:A:629:VAL:CG2	2.14	0.95
1:A:756:TRP:CE3	1:A:757:GLY:CA	2.50	0.95
1:B:210:ILE:HD12	1:B:248:SER:N	1.82	0.95
1:B:247:ALA:HB3	1:B:269:VAL:CG2	1.96	0.95
1:B:308:VAL:CG1	1:B:707:GLY:HA2	1.95	0.95
1:B:309:TRP:HA	1:B:322:ILE:HB	1.46	0.95
1:A:93:VAL:CG1	1:A:97:ARG:HE	1.80	0.94
1:A:94:VAL:O	1:A:98:ARG:HG3	1.67	0.94
1:A:803:LEU:HD23	1:A:860:ILE:HG23	1.46	0.94
1:B:114:LEU:O	1:B:118:GLY:HA3	1.67	0.94
1:B:375:LEU:HD13	1:B:552:LEU:HD21	0.96	0.94
1:B:388:LEU:CD2	1:B:416:LYS:HG3	1.97	0.94
1:B:518:LYS:CD	1:B:523:SER:HB3	1.92	0.94
1:B:724:PHE:HZ	1:B:837:LEU:CB	1.79	0.94
1:B:790:PHE:CE2	1:B:793:MET:HB3	2.01	0.94
1:A:724:PHE:HZ	1:A:837:LEU:CB	1.79	0.94
1:B:37:VAL:O	1:B:37:VAL:CG1	2.12	0.94
1:B:74:VAL:HB	1:B:76:PRO:CG	1.95	0.94
1:B:456:LYS:HD3	1:B:479:PHE:CD1	2.02	0.94
1:B:543:THR:HG23	1:B:675:ILE:HG12	1.44	0.94
1:B:566:ARG:NE	1:B:567:GLU:CD	2.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:607:PHE:CD1	1:B:610:VAL:CG2	2.49	0.94
1:A:286:PHE:CZ	1:A:688:MET:HE1	2.02	0.94
1:A:607:PHE:CD1	1:A:610:VAL:HG23	2.02	0.94
1:B:319:ILE:O	1:B:322:ILE:HG12	1.67	0.94
1:B:484:VAL:HG21	1:B:526:ILE:CG1	1.98	0.94
1:B:698:LEU:CD2	1:B:805:GLU:CB	2.32	0.94
1:B:806:ASN:O	1:B:809:ILE:HG22	1.67	0.94
1:A:370:ALA:HA	1:A:681:SER:HB3	1.47	0.94
1:B:132:ALA:HB1	1:B:144:PHE:HB3	1.50	0.94
1:B:286:PHE:HE2	1:B:688:MET:HE1	1.11	0.94
1:B:286:PHE:CZ	1:B:688:MET:HE1	2.02	0.94
1:A:16:ILE:O	1:A:17:GLU:CG	2.15	0.94
1:A:114:LEU:O	1:A:118:GLY:HA3	1.67	0.94
1:A:388:LEU:CD2	1:A:416:LYS:HG3	1.97	0.94
1:A:451:PHE:CE1	1:A:611:PHE:CE2	2.29	0.94
1:A:689:TYR:CD2	1:A:815:ASN:CB	2.51	0.94
1:B:74:VAL:HG23	1:B:75:VAL:N	1.74	0.94
1:B:182:VAL:HG23	1:B:200:ASP:HB3	1.50	0.94
1:B:192:GLU:HG3	1:B:195:GLU:H	1.31	0.94
1:B:543:THR:HG23	1:B:675:ILE:HG13	0.95	0.94
1:A:74:VAL:HG23	1:A:75:VAL:N	1.74	0.94
1:A:202:LEU:HD23	1:A:260:ILE:HG12	1.49	0.94
1:A:596:GLU:HB2	1:A:910:GLN:NE2	1.81	0.94
1:A:811:ILE:CB	1:A:871:MET:HG3	1.96	0.94
1:B:124:ILE:O	1:B:128:MET:HG2	1.66	0.94
1:B:213:ASP:HB3	1:B:262:ALA:HB3	1.49	0.94
1:B:689:TYR:CD2	1:B:815:ASN:CB	2.51	0.94
1:B:756:TRP:CE3	1:B:757:GLY:CA	2.50	0.94
1:A:520:GLY:O	1:A:521:GLU:CG	2.16	0.94
1:A:671:LEU:HD12	1:A:674:ILE:HD11	1.49	0.94
1:A:806:ASN:O	1:A:809:ILE:HG22	1.67	0.94
1:B:541:TYR:O	1:B:544:VAL:HG22	1.68	0.94
1:B:803:LEU:HD23	1:B:860:ILE:HG21	1.20	0.94
1:A:132:ALA:HB1	1:A:144:PHE:HB3	1.49	0.94
1:A:470:ILE:HD12	1:A:517:ARG:CD	1.97	0.94
1:A:484:VAL:HG21	1:A:526:ILE:CG1	1.98	0.94
1:A:543:THR:HG23	1:A:675:ILE:HG13	0.95	0.94
1:A:552:LEU:CD2	1:A:678:LEU:CD2	2.40	0.94
1:A:756:TRP:CE3	1:A:757:GLY:HA3	2.01	0.94
1:B:92:GLU:O	1:B:96:ARG:HG3	1.68	0.94
1:B:112:HIS:HB2	1:B:116:PHE:CD1	2.02	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:ALA:O	1:B:279:ALA:CB	2.13	0.94
1:B:415:LYS:HZ3	1:B:511:ARG:HG3	0.94	0.94
1:B:756:TRP:CG	1:B:757:GLY:H	1.86	0.94
1:A:93:VAL:HG11	1:A:197:VAL:CG1	1.98	0.94
1:A:309:TRP:CE3	1:A:310:VAL:CB	2.47	0.94
1:A:375:LEU:HD12	1:A:552:LEU:CD1	1.97	0.94
1:A:489:PRO:O	1:A:491:PRO:CD	2.13	0.94
1:B:78:ASP:HA	1:B:81:GLN:HG3	1.48	0.94
1:B:517:ARG:HG3	1:B:517:ARG:HH11	1.31	0.94
1:B:694:TYR:HE1	1:B:805:GLU:O	1.50	0.94
1:B:697:ALA:HA	1:B:765:VAL:HG22	1.48	0.94
1:A:309:TRP:HD1	1:A:322:ILE:HG13	1.29	0.94
1:A:375:LEU:CD1	1:A:552:LEU:CD1	2.46	0.94
1:A:541:TYR:O	1:A:544:VAL:HG22	1.68	0.94
1:B:93:VAL:HG11	1:B:97:ARG:NH2	1.83	0.94
1:B:246:PHE:CG	1:B:268:PHE:CD2	2.55	0.94
1:B:768:VAL:HG21	1:B:808:LEU:HD13	1.50	0.94
1:B:893:PRO:O	1:B:894:LYS:CG	2.15	0.94
1:A:125:GLN:HB3	1:A:151:LEU:CD1	1.98	0.93
1:A:390:LEU:H	1:A:422:ILE:CD1	1.81	0.93
1:A:437:LYS:HD3	1:A:437:LYS:N	1.79	0.93
1:A:566:ARG:NH2	1:A:570:ARG:HH11	1.64	0.93
1:A:694:TYR:HE1	1:A:805:GLU:O	1.50	0.93
1:A:756:TRP:CG	1:A:757:GLY:H	1.86	0.93
1:A:768:VAL:HG21	1:A:808:LEU:HD13	1.50	0.93
1:B:375:LEU:HD12	1:B:552:LEU:CD1	1.97	0.93
1:B:596:GLU:HB2	1:B:910:GLN:NE2	1.81	0.93
1:B:706:LEU:HD22	1:B:717:LEU:HD13	1.31	0.93
1:A:863:PHE:HE1	1:B:309:TRP:HZ3	1.08	0.93
1:B:520:GLY:O	1:B:521:GLU:CG	2.16	0.93
1:B:756:TRP:CE3	1:B:757:GLY:HA3	2.01	0.93
1:A:689:TYR:O	1:A:692:VAL:HG22	1.67	0.93
1:B:289:VAL:CG1	1:B:756:TRP:CA	2.45	0.93
1:B:309:TRP:CE3	1:B:310:VAL:CB	2.47	0.93
1:B:346:MET:HG2	1:B:363:LEU:CG	1.98	0.93
1:A:92:GLU:O	1:A:96:ARG:HG3	1.68	0.93
1:A:803:LEU:HD23	1:A:860:ILE:HG22	1.28	0.93
1:B:93:VAL:CG1	1:B:97:ARG:HE	1.79	0.93
1:B:513:LEU:HD12	1:B:530:MET:HE3	1.48	0.93
1:A:210:ILE:HD12	1:A:248:SER:N	1.82	0.93
1:A:517:ARG:HH11	1:A:517:ARG:HG3	1.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:583:ARG:CB	1:A:603:ALA:CB	2.46	0.93
1:A:651:VAL:HB	1:A:654:SER:HB3	1.48	0.93
1:A:740:ASN:O	1:A:743:TYR:CD2	2.22	0.93
1:B:399:VAL:C	1:B:401:PRO:HD2	1.91	0.93
1:A:191:ILE:HD12	1:A:195:GLU:HB3	1.50	0.93
1:A:484:VAL:HG21	1:A:526:ILE:HG23	1.50	0.93
1:A:698:LEU:CD2	1:A:805:GLU:CB	2.32	0.93
1:B:202:LEU:HD23	1:B:260:ILE:HG12	1.49	0.93
1:B:210:ILE:HG12	1:B:245:VAL:HG23	1.50	0.93
1:B:390:LEU:H	1:B:422:ILE:CD1	1.81	0.93
1:B:651:VAL:HB	1:B:654:SER:HB3	1.48	0.93
1:A:230:LEU:CD2	1:A:268:PHE:CZ	2.52	0.93
1:A:488:HIS:CG	1:A:489:PRO:HD2	2.04	0.93
1:A:893:PRO:O	1:A:894:LYS:CG	2.15	0.93
1:B:93:VAL:HG11	1:B:197:VAL:CG1	1.98	0.93
1:B:499:LYS:O	1:B:502:VAL:HG12	1.69	0.93
1:B:714:ASN:CB	1:B:790:PHE:CE1	2.50	0.93
1:B:740:ASN:O	1:B:743:TYR:CD2	2.22	0.93
1:A:182:VAL:HG23	1:A:200:ASP:HB3	1.50	0.93
1:A:697:ALA:HA	1:A:765:VAL:HG22	1.48	0.93
1:A:720:GLU:O	1:A:723:VAL:CG2	2.17	0.93
1:B:312:SER:HB2	1:B:710:ILE:HG23	1.50	0.93
1:B:671:LEU:HD12	1:B:674:ILE:HD11	1.49	0.93
1:B:689:TYR:O	1:B:692:VAL:HG22	1.67	0.93
1:B:217:VAL:CG1	1:B:257:PHE:HB3	1.99	0.93
1:B:456:LYS:HE2	1:B:476:ALA:HB3	1.51	0.93
1:A:346:MET:HG2	1:A:363:LEU:CG	1.98	0.93
1:A:453:PRO:CB	1:A:592:MET:CB	2.31	0.93
1:A:501:LYS:HG2	1:A:505:PHE:HE2	0.95	0.93
1:B:94:VAL:O	1:B:98:ARG:HG3	1.67	0.93
1:B:106:LYS:HZ1	1:B:361:GLN:NE2	1.66	0.93
1:B:375:LEU:CD1	1:B:552:LEU:CD1	2.46	0.93
1:B:427:LEU:HB2	1:B:440:LEU:HD23	0.95	0.93
1:B:70:GLY:CA	1:B:268:PHE:HZ	1.74	0.92
1:B:390:LEU:H	1:B:422:ILE:HD12	1.31	0.92
1:A:106:LYS:NZ	1:A:361:GLN:NE2	2.14	0.92
1:A:274:ALA:C	1:A:275:LEU:CD1	2.41	0.92
1:A:319:ILE:O	1:A:322:ILE:HG12	1.67	0.92
1:A:499:LYS:O	1:A:502:VAL:HG12	1.69	0.92
1:A:505:PHE:HB3	1:A:510:PHE:CG	2.04	0.92
1:A:818:PHE:HB3	1:A:875:TYR:HB2	1.38	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:652:GLU:HB2	1:B:667:LEU:HA	1.51	0.92
1:A:70:GLY:CA	1:A:268:PHE:HZ	1.74	0.92
1:A:811:ILE:HB	1:A:871:MET:CG	2.00	0.92
1:B:16:ILE:O	1:B:17:GLU:CG	2.15	0.92
1:B:583:ARG:CB	1:B:603:ALA:CB	2.46	0.92
1:A:714:ASN:CB	1:A:790:PHE:CE1	2.50	0.92
1:B:24:LYS:HD2	1:B:171:GLU:CA	1.99	0.92
1:B:125:GLN:HB3	1:B:151:LEU:CD1	1.98	0.92
1:A:24:LYS:HD2	1:A:171:GLU:CA	1.99	0.92
1:A:100:TYR:OH	1:A:103:ASN:HB2	1.70	0.92
1:A:427:LEU:HB2	1:A:440:LEU:HD23	0.95	0.92
1:A:505:PHE:O	1:A:510:PHE:HB3	1.68	0.92
1:A:510:PHE:HZ	1:A:512:SER:CB	1.72	0.92
1:A:591:ASP:C	1:A:592:MET:HE2	1.94	0.92
1:B:427:LEU:CB	1:B:440:LEU:CD2	2.43	0.92
1:B:505:PHE:O	1:B:510:PHE:HB3	1.68	0.92
1:B:803:LEU:O	1:B:807:TRP:CD1	2.23	0.92
1:B:839:THR:O	1:B:843:ILE:HG13	1.70	0.92
1:A:246:PHE:HZ	1:A:248:SER:HB3	1.16	0.92
1:A:315:ARG:O	1:A:316:SER:OG	1.86	0.92
1:A:325:PHE:CZ	1:A:709:TRP:HD1	1.86	0.92
1:A:370:ALA:CA	1:A:681:SER:HB3	2.00	0.92
1:A:456:LYS:HE2	1:A:476:ALA:HB3	1.50	0.92
1:A:725:ILE:HD11	1:A:805:GLU:OE1	1.70	0.92
1:B:70:GLY:C	1:B:230:LEU:HD21	1.93	0.92
1:A:93:VAL:HG11	1:A:97:ARG:NH2	1.83	0.92
1:A:399:VAL:HB	1:A:404:LEU:HD21	1.50	0.92
1:A:839:THR:O	1:A:843:ILE:HG13	1.70	0.92
1:B:230:LEU:CD2	1:B:268:PHE:CZ	2.52	0.92
1:B:488:HIS:CG	1:B:489:PRO:HD2	2.04	0.92
1:B:679:LYS:HG2	1:B:682:ARG:HH22	1.21	0.92
1:A:278:ALA:O	1:A:279:ALA:HB2	1.67	0.92
1:A:513:LEU:HD12	1:A:530:MET:HE3	1.48	0.92
1:B:246:PHE:HZ	1:B:248:SER:HB3	1.16	0.92
1:B:388:LEU:HD23	1:B:416:LYS:HG3	1.50	0.92
1:B:683:GLN:CG	1:B:743:TYR:CD1	2.53	0.92
1:A:16:ILE:HD13	1:A:667:LEU:HD21	1.52	0.92
1:A:518:LYS:C	1:A:519:ARG:HG3	1.95	0.92
1:A:601:VAL:HG13	1:A:602:GLU:N	1.85	0.92
1:A:803:LEU:O	1:A:807:TRP:CD1	2.23	0.92
1:B:100:TYR:OH	1:B:103:ASN:HB2	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:PRO:CB	1:B:592:MET:CB	2.31	0.92
1:B:596:GLU:O	1:B:600:PHE:CE2	2.23	0.92
1:B:650:ALA:HB3	1:B:659:ARG:HG2	1.51	0.92
1:A:146:VAL:HG21	1:A:719:ILE:CG1	1.99	0.91
1:B:278:ALA:O	1:B:279:ALA:HB2	1.67	0.91
1:B:505:PHE:HB3	1:B:510:PHE:CG	2.04	0.91
1:B:683:GLN:HG3	1:B:743:TYR:HE1	1.10	0.91
1:B:709:TRP:CZ3	1:B:715:ARG:O	2.23	0.91
1:A:210:ILE:HG12	1:A:245:VAL:HG23	1.50	0.91
1:A:217:VAL:CG1	1:A:257:PHE:HB3	1.99	0.91
1:A:687:ARG:NH1	1:A:739:ASP:OD1	2.03	0.91
1:B:275:LEU:O	1:B:276:VAL:HG23	1.70	0.91
1:B:293:ILE:CD1	1:B:756:TRP:CH2	2.51	0.91
1:B:484:VAL:O	1:B:524:TRP:HD1	1.52	0.91
1:B:505:PHE:C	1:B:510:PHE:HB3	1.96	0.91
1:A:227:GLN:CD	1:A:246:PHE:CE2	2.49	0.91
1:A:312:SER:HB2	1:A:710:ILE:HG23	1.50	0.91
1:B:275:LEU:HD12	1:B:275:LEU:N	1.84	0.91
1:B:489:PRO:O	1:B:491:PRO:CD	2.13	0.91
1:B:811:ILE:HB	1:B:871:MET:CG	1.99	0.91
1:A:78:ASP:CB	1:A:81:GLN:HG3	1.99	0.91
1:A:388:LEU:HD21	1:A:415:LYS:HB2	1.49	0.91
1:A:652:GLU:HB2	1:A:667:LEU:HA	1.51	0.91
1:A:705:PHE:CZ	1:A:797:LEU:HD11	2.06	0.91
1:B:78:ASP:CB	1:B:81:GLN:HG3	1.99	0.91
1:B:501:LYS:HG2	1:B:505:PHE:HE2	0.95	0.91
1:B:694:TYR:CD1	1:B:809:ILE:HA	2.04	0.91
1:B:720:GLU:O	1:B:723:VAL:CG2	2.17	0.91
1:A:407:THR:HG23	1:A:517:ARG:CG	1.99	0.91
1:A:596:GLU:O	1:A:600:PHE:CE2	2.23	0.91
1:A:650:ALA:HB3	1:A:659:ARG:HG2	1.51	0.91
1:B:886:ASN:HA	1:B:889:HIS:ND1	1.85	0.91
1:A:286:PHE:HE2	1:A:688:MET:HE1	1.11	0.91
1:A:886:ASN:HA	1:A:889:HIS:ND1	1.85	0.91
1:B:513:LEU:HD12	1:B:530:MET:CE	2.01	0.91
1:B:705:PHE:CZ	1:B:797:LEU:HD11	2.06	0.91
1:A:694:TYR:CD1	1:A:809:ILE:HA	2.04	0.91
1:B:471:THR:HB	1:B:519:ARG:N	1.86	0.91
1:A:388:LEU:HD11	1:A:415:LYS:CD	2.00	0.91
1:A:390:LEU:H	1:A:422:ILE:HD12	1.30	0.91
1:A:399:VAL:CG1	1:A:401:PRO:HD2	1.96	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:471:THR:HB	1:A:519:ARG:N	1.86	0.91
1:A:481:LEU:O	1:A:484:VAL:HG12	1.71	0.91
1:A:484:VAL:O	1:A:524:TRP:HD1	1.52	0.91
1:A:714:ASN:HB2	1:A:790:PHE:HE1	1.25	0.91
1:B:591:ASP:C	1:B:592:MET:HE2	1.94	0.91
1:A:305:LEU:HD13	1:A:329:ILE:CA	2.01	0.91
1:A:388:LEU:HD23	1:A:416:LYS:HG3	1.50	0.91
1:A:796:VAL:HG11	1:A:800:GLN:HE21	1.36	0.91
1:B:74:VAL:HG21	1:B:76:PRO:HD2	1.53	0.91
1:B:75:VAL:N	1:B:76:PRO:HD3	1.84	0.91
1:B:388:LEU:HD11	1:B:415:LYS:CD	2.00	0.91
1:B:388:LEU:HD21	1:B:415:LYS:HB2	1.49	0.91
1:B:725:ILE:HD11	1:B:805:GLU:OE1	1.70	0.91
1:A:600:PHE:CE1	1:A:907:VAL:HG23	1.89	0.91
1:A:687:ARG:CD	1:A:738:TYR:O	2.19	0.91
1:B:34:LYS:HB2	1:B:35:PRO:HD3	1.40	0.91
1:B:191:ILE:HD12	1:B:195:GLU:HB3	1.50	0.91
1:B:370:ALA:CA	1:B:681:SER:HB3	2.00	0.91
1:B:399:VAL:HB	1:B:404:LEU:HD21	1.50	0.91
1:B:518:LYS:C	1:B:519:ARG:HG3	1.95	0.91
1:B:675:ILE:O	1:B:679:LYS:CG	2.19	0.91
1:B:687:ARG:NH1	1:B:739:ASP:OD1	2.03	0.91
1:A:227:GLN:CD	1:A:246:PHE:HE2	1.78	0.90
1:A:246:PHE:HD1	1:A:269:VAL:HG23	0.74	0.90
1:B:24:LYS:HE3	1:B:171:GLU:CD	1.97	0.90
1:B:286:PHE:CZ	1:B:688:MET:CE	2.54	0.90
1:B:312:SER:CB	1:B:710:ILE:HG23	2.01	0.90
1:B:566:ARG:NH2	1:B:570:ARG:HH11	1.64	0.90
1:B:566:ARG:NH1	1:B:579:TYR:HD1	1.69	0.90
1:B:601:VAL:HG13	1:B:602:GLU:N	1.85	0.90
1:A:275:LEU:HD12	1:A:275:LEU:N	1.84	0.90
1:A:275:LEU:O	1:A:276:VAL:HG23	1.70	0.90
1:A:557:LEU:HG	1:A:607:PHE:HD2	1.04	0.90
1:A:583:ARG:HA	1:A:603:ALA:HB1	1.50	0.90
1:A:683:GLN:CG	1:A:743:TYR:CD1	2.53	0.90
1:A:709:TRP:CZ3	1:A:715:ARG:O	2.23	0.90
1:B:227:GLN:CD	1:B:246:PHE:CE2	2.49	0.90
1:B:309:TRP:HD1	1:B:322:ILE:HG13	1.29	0.90
1:B:325:PHE:CZ	1:B:709:TRP:HD1	1.86	0.90
1:B:583:ARG:HA	1:B:603:ALA:HB1	1.50	0.90
1:B:809:ILE:HD11	1:B:827:LEU:HD21	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:ILE:HG22	1:B:844:TRP:CD1	2.06	0.90
1:A:70:GLY:C	1:A:230:LEU:HD21	1.93	0.90
1:A:566:ARG:NH1	1:A:579:TYR:HD1	1.69	0.90
1:A:843:ILE:HG22	1:A:844:TRP:CD1	2.06	0.90
1:B:16:ILE:HD13	1:B:667:LEU:HD21	1.52	0.90
1:B:689:TYR:HD2	1:B:815:ASN:CB	1.84	0.90
1:B:796:VAL:HG11	1:B:800:GLN:HE21	1.36	0.90
1:A:230:LEU:HD22	1:A:268:PHE:HE2	1.36	0.90
1:A:803:LEU:HD23	1:A:860:ILE:HG21	1.20	0.90
1:B:176:LEU:HD23	1:B:191:ILE:CD1	2.02	0.90
1:B:687:ARG:CD	1:B:738:TYR:O	2.19	0.90
1:A:78:ASP:CA	1:A:81:GLN:HG3	1.97	0.90
1:A:675:ILE:O	1:A:679:LYS:CG	2.19	0.90
1:A:715:ARG:HG2	1:A:790:PHE:CB	2.00	0.90
1:B:566:ARG:CZ	1:B:567:GLU:OE2	2.12	0.90
1:B:679:LYS:CA	1:B:682:ARG:CZ	2.50	0.90
1:B:896:ASN:O	1:B:900:ARG:HG3	1.72	0.90
1:A:513:LEU:HD12	1:A:530:MET:CE	2.01	0.90
1:A:683:GLN:HG3	1:A:743:TYR:HE1	1.10	0.90
1:B:451:PHE:HB3	1:B:458:VAL:CG1	1.99	0.90
1:B:456:LYS:NZ	1:B:476:ALA:CB	2.34	0.90
1:B:671:LEU:O	1:B:674:ILE:HG12	1.72	0.90
1:B:715:ARG:HG2	1:B:790:PHE:CB	2.00	0.90
1:A:24:LYS:HD2	1:A:171:GLU:C	1.96	0.90
1:A:24:LYS:HE3	1:A:171:GLU:CD	1.97	0.90
1:A:286:PHE:CZ	1:A:688:MET:CE	2.54	0.90
1:A:319:ILE:O	1:A:322:ILE:CG1	2.20	0.90
1:A:451:PHE:HB3	1:A:458:VAL:CG1	1.99	0.90
1:A:862:ILE:HD11	1:A:863:PHE:CE1	2.07	0.90
1:B:37:VAL:O	1:B:38:GLU:CG	2.20	0.90
1:B:315:ARG:O	1:B:316:SER:OG	1.86	0.90
1:B:325:PHE:CE2	1:B:706:LEU:O	2.24	0.90
1:B:481:LEU:O	1:B:484:VAL:HG12	1.71	0.90
1:B:510:PHE:HZ	1:B:512:SER:CB	1.72	0.90
1:B:511:ARG:CA	1:B:564:ILE:HD12	2.00	0.90
1:B:724:PHE:HE1	1:B:837:LEU:HD23	1.36	0.90
1:B:823:PRO:O	1:B:824:SER:C	2.15	0.90
1:A:37:VAL:O	1:A:38:GLU:CG	2.20	0.90
1:A:671:LEU:O	1:A:674:ILE:HG12	1.71	0.90
1:B:100:TYR:CZ	1:B:103:ASN:HA	2.07	0.90
1:A:182:VAL:CG2	1:A:200:ASP:CB	2.43	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:ASN:OD1	1:A:851:ASP:HB2	1.71	0.90
1:B:319:ILE:O	1:B:322:ILE:CG1	2.20	0.90
1:B:357:LYS:O	1:B:667:LEU:CB	2.20	0.90
1:B:676:ASP:N	1:B:679:LYS:HE3	1.87	0.90
1:A:325:PHE:CE2	1:A:706:LEU:O	2.25	0.89
1:A:592:MET:CE	1:A:592:MET:N	2.33	0.89
1:A:813:ARG:NH1	1:A:817:PRO:HB2	1.87	0.89
1:B:146:VAL:HG21	1:B:719:ILE:CG1	1.99	0.89
1:B:246:PHE:HD1	1:B:269:VAL:HG23	0.74	0.89
1:B:415:LYS:HD3	1:B:559:GLY:O	1.72	0.89
1:B:679:LYS:O	1:B:683:GLN:HG3	1.72	0.89
1:B:714:ASN:HB2	1:B:790:PHE:HE1	1.25	0.89
1:A:173:LYS:O	1:A:174:LYS:HB2	1.73	0.89
1:A:415:LYS:HG2	1:A:511:ARG:HE	1.36	0.89
1:A:471:THR:OG1	1:A:519:ARG:CA	2.21	0.89
1:A:505:PHE:C	1:A:510:PHE:HB3	1.96	0.89
1:A:511:ARG:CA	1:A:564:ILE:HD12	2.00	0.89
1:B:305:LEU:HD13	1:B:329:ILE:CA	2.01	0.89
1:B:597:VAL:CA	1:B:600:PHE:HD2	1.85	0.89
1:B:814:ALA:HB1	1:B:817:PRO:CD	2.03	0.89
1:A:679:LYS:CA	1:A:682:ARG:CZ	2.50	0.89
1:A:809:ILE:HD11	1:A:827:LEU:HD21	1.51	0.89
1:A:823:PRO:O	1:A:824:SER:C	2.15	0.89
1:B:792:ASN:OD1	1:B:851:ASP:HB2	1.71	0.89
1:A:275:LEU:O	1:A:276:VAL:CG2	2.21	0.89
1:A:456:LYS:NZ	1:A:476:ALA:CB	2.34	0.89
1:B:24:LYS:HD2	1:B:171:GLU:C	1.96	0.89
1:B:423:ASP:O	1:B:440:LEU:HD21	1.72	0.89
1:B:471:THR:OG1	1:B:519:ARG:CA	2.21	0.89
1:A:597:VAL:CA	1:A:600:PHE:HD2	1.85	0.89
1:A:676:ASP:N	1:A:679:LYS:HE3	1.87	0.89
1:A:679:LYS:HG2	1:A:682:ARG:CZ	2.03	0.89
1:B:17:GLU:HG2	1:B:189:LYS:CE	2.03	0.89
1:B:510:PHE:CE1	1:B:531:PRO:HB3	2.05	0.89
1:B:600:PHE:O	1:B:603:ALA:CB	2.20	0.89
1:B:813:ARG:NH1	1:B:817:PRO:HB2	1.87	0.89
1:B:862:ILE:HD11	1:B:863:PHE:CE1	2.07	0.89
1:A:100:TYR:CZ	1:A:103:ASN:HA	2.07	0.89
1:A:423:ASP:O	1:A:440:LEU:HD21	1.72	0.89
1:B:552:LEU:CD2	1:B:678:LEU:CD2	2.40	0.89
1:A:100:TYR:CE2	1:A:103:ASN:CB	2.56	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:LYS:HD3	1:A:559:GLY:O	1.72	0.89
1:A:679:LYS:O	1:A:683:GLN:HG3	1.72	0.89
1:B:100:TYR:CE2	1:B:103:ASN:HA	2.08	0.89
1:B:230:LEU:HD22	1:B:268:PHE:HE2	1.36	0.89
1:B:275:LEU:O	1:B:276:VAL:CG2	2.21	0.89
1:B:690:ALA:HB1	1:B:812:THR:C	1.98	0.89
1:A:17:GLU:HG2	1:A:189:LYS:CE	2.03	0.89
1:A:332:ILE:HD13	1:A:702:LEU:HD23	0.89	0.89
1:A:690:ALA:HB1	1:A:812:THR:C	1.98	0.89
1:B:16:ILE:CD1	1:B:667:LEU:CD2	2.51	0.89
1:B:93:VAL:HG21	1:B:197:VAL:CG1	2.03	0.89
1:B:434:PRO:O	1:B:435:ARG:CG	2.21	0.89
1:B:679:LYS:HG2	1:B:682:ARG:CZ	2.03	0.89
1:A:100:TYR:CE2	1:A:103:ASN:HA	2.08	0.89
1:A:224:GLN:HB2	1:A:253:ARG:HB2	1.55	0.89
1:B:94:VAL:HG21	1:B:98:ARG:HH21	1.36	0.89
1:B:407:THR:HG23	1:B:517:ARG:CG	1.99	0.89
1:A:357:LYS:O	1:A:667:LEU:CB	2.20	0.88
1:B:78:ASP:CA	1:B:81:GLN:HG3	1.97	0.88
1:B:694:TYR:CB	1:B:812:THR:CG2	2.19	0.88
1:B:803:LEU:HD23	1:B:807:TRP:HZ2	1.37	0.88
1:A:516:ALA:HA	1:A:525:GLU:O	1.73	0.88
1:B:100:TYR:CB	1:B:264:GLY:HA2	2.03	0.88
1:B:150:LEU:HD13	1:B:723:VAL:CB	2.03	0.88
1:B:227:GLN:CD	1:B:246:PHE:HE2	1.78	0.88
1:A:437:LYS:HD3	1:A:437:LYS:H	1.34	0.88
1:A:803:LEU:HD23	1:A:807:TRP:HZ2	1.37	0.88
1:A:814:ALA:HB1	1:A:817:PRO:CD	2.03	0.88
1:B:305:LEU:CD1	1:B:330:THR:N	2.35	0.88
1:B:305:LEU:HD11	1:B:329:ILE:C	1.98	0.88
1:B:736:ILE:HD13	1:B:827:LEU:HD23	1.53	0.88
1:A:74:VAL:HG21	1:A:76:PRO:HD2	1.53	0.88
1:A:161:GLN:HE22	1:A:337:GLY:HA3	1.36	0.88
1:A:485:GLU:O	1:A:486:GLU:HG2	1.73	0.88
1:A:863:PHE:HE1	1:B:309:TRP:CZ3	1.90	0.88
1:B:224:GLN:HB2	1:B:253:ARG:HB2	1.55	0.88
1:B:384:THR:OG1	1:B:534:ASP:CB	2.22	0.88
1:B:390:LEU:HD22	1:B:531:PRO:O	1.73	0.88
1:B:442:LYS:O	1:B:443:TYR:CD2	2.26	0.88
1:A:434:PRO:O	1:A:435:ARG:CG	2.21	0.88
1:A:442:LYS:O	1:A:443:TYR:CD2	2.26	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:VAL:HG22	1:A:462:VAL:CG1	2.03	0.88
1:A:510:PHE:CE1	1:A:531:PRO:HB3	2.05	0.88
1:B:485:GLU:O	1:B:486:GLU:HG2	1.73	0.88
1:B:892:SER:N	1:B:893:PRO:HD2	1.88	0.88
1:A:16:ILE:CD1	1:A:667:LEU:CD2	2.51	0.88
1:A:176:LEU:HD23	1:A:191:ILE:CD1	2.02	0.88
1:A:312:SER:CB	1:A:710:ILE:HG23	2.01	0.88
1:A:600:PHE:O	1:A:603:ALA:CB	2.20	0.88
1:A:21:PHE:H	1:A:21:PHE:HD1	1.19	0.88
1:A:93:VAL:HG21	1:A:197:VAL:CG1	2.03	0.88
1:A:100:TYR:CE2	1:A:103:ASN:CA	2.57	0.88
1:A:150:LEU:HD13	1:A:723:VAL:CB	2.03	0.88
1:A:239:LYS:HB3	1:A:243:ASP:CG	1.99	0.88
1:A:470:ILE:CD1	1:A:517:ARG:NE	2.36	0.88
1:A:618:VAL:HA	1:A:621:ILE:CD1	2.04	0.88
1:A:724:PHE:HE1	1:A:837:LEU:HD23	1.36	0.88
1:B:470:ILE:CD1	1:B:517:ARG:NE	2.36	0.88
1:B:736:ILE:HD12	1:B:827:LEU:HD23	0.89	0.88
1:A:53:GLU:O	1:A:54:SER:OG	1.92	0.88
1:A:93:VAL:HG11	1:A:197:VAL:HG11	1.54	0.88
1:A:370:ALA:CB	1:A:681:SER:HB3	2.03	0.88
1:A:736:ILE:HD12	1:A:827:LEU:HD23	0.89	0.88
1:A:859:ARG:CG	1:B:319:ILE:CD1	2.49	0.88
1:A:896:ASN:O	1:A:900:ARG:HG3	1.72	0.88
1:B:119:PHE:O	1:B:123:PRO:HD3	1.74	0.88
1:A:226:ASP:O	1:A:248:SER:HB2	1.74	0.88
1:A:341:VAL:O	1:A:345:THR:HG23	1.73	0.88
1:B:161:GLN:HE22	1:B:337:GLY:HA3	1.36	0.88
1:B:445:VAL:HG22	1:B:462:VAL:CG1	2.03	0.88
1:A:384:THR:OG1	1:A:534:ASP:CB	2.21	0.88
1:A:510:PHE:HA	1:A:532:CYS:O	1.72	0.88
1:A:566:ARG:CZ	1:A:567:GLU:OE2	2.12	0.88
1:A:683:GLN:HB3	1:A:687:ARG:CZ	2.04	0.88
1:B:53:GLU:O	1:B:54:SER:OG	1.92	0.88
1:B:399:VAL:CG1	1:B:401:PRO:HD2	1.96	0.88
1:B:427:LEU:HA	1:B:440:LEU:HD22	1.55	0.88
1:B:510:PHE:HA	1:B:532:CYS:O	1.72	0.88
1:B:566:ARG:HA	1:B:585:GLY:O	1.74	0.88
1:B:683:GLN:HB3	1:B:687:ARG:CZ	2.04	0.88
1:A:94:VAL:HG21	1:A:98:ARG:HH21	1.36	0.87
1:A:100:TYR:CB	1:A:264:GLY:HA2	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:ALA:CA	1:A:510:PHE:CD2	2.57	0.87
1:A:611:PHE:CB	1:A:612:PRO:HD2	2.02	0.87
1:A:794:ASP:OD1	1:A:795:GLU:N	2.07	0.87
1:B:216:ILE:CD1	1:B:243:ASP:OD2	2.22	0.87
1:B:332:ILE:HD13	1:B:702:LEU:HD23	0.89	0.87
1:B:592:MET:CE	1:B:592:MET:N	2.33	0.87
1:A:16:ILE:HG22	1:A:176:LEU:HD13	1.56	0.87
1:A:93:VAL:HG21	1:A:197:VAL:HG11	1.56	0.87
1:A:331:ILE:O	1:A:334:VAL:CG2	2.21	0.87
1:A:390:LEU:HD22	1:A:531:PRO:O	1.73	0.87
1:B:818:PHE:HB2	1:B:875:TYR:HB2	1.55	0.87
1:A:75:VAL:N	1:A:76:PRO:HD3	1.84	0.87
1:B:226:ASP:O	1:B:248:SER:HB2	1.74	0.87
1:B:239:LYS:HB3	1:B:243:ASP:CG	1.99	0.87
1:B:274:ALA:C	1:B:275:LEU:CD1	2.41	0.87
1:B:341:VAL:O	1:B:345:THR:HG23	1.73	0.87
1:A:181:VAL:O	1:A:202:LEU:HA	1.75	0.87
1:B:49:ILE:CD1	1:B:275:LEU:O	2.23	0.87
1:B:518:LYS:HG3	1:B:519:ARG:N	1.89	0.87
1:B:818:PHE:O	1:B:819:TRP:HB3	1.71	0.87
1:A:216:ILE:CD1	1:A:243:ASP:OD2	2.22	0.87
1:A:305:LEU:HD11	1:A:329:ILE:C	1.98	0.87
1:A:389:SER:HA	1:A:422:ILE:HD12	1.57	0.87
1:A:394:TYR:HE2	1:A:529:ILE:HD11	1.40	0.87
1:A:892:SER:N	1:A:893:PRO:HD2	1.88	0.87
1:B:93:VAL:HG11	1:B:197:VAL:HG11	1.54	0.87
1:B:100:TYR:CE2	1:B:103:ASN:CB	2.56	0.87
1:B:601:VAL:CG1	1:B:602:GLU:H	1.88	0.87
1:A:119:PHE:O	1:A:123:PRO:HD3	1.74	0.87
1:A:260:ILE:HG22	1:A:263:THR:CG2	2.04	0.87
1:A:400:ASP:H	1:A:404:LEU:HD23	1.36	0.87
1:A:543:THR:HG21	1:A:672:GLY:HA2	1.57	0.87
1:B:389:SER:HA	1:B:422:ILE:HD12	1.57	0.87
1:A:193:ALA:HA	1:A:196:VAL:HG21	1.57	0.87
1:A:688:MET:O	1:A:691:TYR:HD2	1.56	0.87
1:A:742:PRO:O	1:A:744:SER:N	2.08	0.87
1:B:105:MET:HG3	1:B:274:ALA:HA	1.57	0.87
1:B:191:ILE:HG22	1:B:196:VAL:HG12	1.57	0.87
1:B:325:PHE:CD2	1:B:706:LEU:HB3	2.09	0.87
1:B:331:ILE:O	1:B:334:VAL:CG2	2.21	0.87
1:B:370:ALA:CB	1:B:681:SER:HB3	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:682:ARG:HH12	1:B:744:SER:HB3	1.39	0.87
1:A:191:ILE:HG22	1:A:196:VAL:HG12	1.57	0.87
1:B:65:GLU:O	1:B:65:GLU:HG2	1.75	0.87
1:B:93:VAL:HG11	1:B:97:ARG:HH21	1.40	0.87
1:B:181:VAL:O	1:B:202:LEU:HA	1.75	0.87
1:B:429:SER:HA	1:B:432:TYR:HD2	1.39	0.87
1:B:583:ARG:HB2	1:B:603:ALA:CB	2.04	0.87
1:B:683:GLN:HG2	1:B:743:TYR:CD1	2.10	0.87
1:B:811:ILE:HG23	1:B:867:ILE:HD13	1.56	0.87
1:A:105:MET:HG3	1:A:274:ALA:HA	1.57	0.87
1:A:427:LEU:HA	1:A:440:LEU:HD22	1.55	0.87
1:A:443:TYR:CD1	1:A:445:VAL:CG2	2.57	0.87
1:A:671:LEU:O	1:A:674:ILE:CD1	2.23	0.87
1:A:817:PRO:O	1:A:875:TYR:CD2	2.28	0.87
1:B:100:TYR:CE2	1:B:103:ASN:CA	2.57	0.87
1:B:180:ALA:HB3	1:B:191:ILE:O	1.75	0.87
1:B:459:VAL:HG21	1:B:521:GLU:HG2	1.55	0.87
1:B:619:VAL:HG21	1:B:641:SER:HA	1.57	0.87
1:A:346:MET:CG	1:A:363:LEU:CB	2.52	0.86
1:A:652:GLU:HG3	1:A:667:LEU:HD12	1.56	0.86
1:B:415:LYS:HG2	1:B:511:ARG:HE	1.36	0.86
1:B:443:TYR:CD1	1:B:445:VAL:CG2	2.57	0.86
1:A:459:VAL:HG21	1:A:521:GLU:HG2	1.55	0.86
1:A:517:ARG:C	1:A:517:ARG:CD	2.47	0.86
1:B:16:ILE:CD1	1:B:667:LEU:CD1	2.37	0.86
1:B:319:ILE:C	1:B:322:ILE:HG12	2.00	0.86
1:B:406:LEU:HD21	1:B:470:ILE:HG12	1.57	0.86
1:B:516:ALA:HA	1:B:525:GLU:O	1.73	0.86
1:B:688:MET:O	1:B:691:TYR:HD2	1.56	0.86
1:A:305:LEU:CD1	1:A:330:THR:N	2.35	0.86
1:A:325:PHE:CD2	1:A:706:LEU:HB3	2.09	0.86
1:A:370:ALA:HA	1:A:681:SER:CB	2.05	0.86
1:A:696:ILE:CG2	1:A:765:VAL:HG21	2.02	0.86
1:B:173:LYS:O	1:B:174:LYS:HB2	1.73	0.86
1:B:420:ASP:CG	1:B:421:ALA:H	1.82	0.86
1:B:794:ASP:OD1	1:B:795:GLU:N	2.07	0.86
1:B:882:VAL:HG12	1:B:884:PHE:HD1	1.39	0.86
1:A:49:ILE:CD1	1:A:275:LEU:O	2.23	0.86
1:A:518:LYS:HD3	1:A:523:SER:CA	2.05	0.86
1:A:818:PHE:O	1:A:819:TRP:HB3	1.71	0.86
1:B:82:THR:HG22	1:B:244:GLN:NE2	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:ILE:CG1	1:B:245:VAL:HG22	2.06	0.86
1:B:400:ASP:H	1:B:404:LEU:HD23	1.36	0.86
1:A:93:VAL:CG1	1:A:97:ARG:CZ	2.54	0.86
1:A:246:PHE:CE2	1:A:248:SER:CB	2.46	0.86
1:A:385:LYS:HE3	1:A:537:ARG:CB	2.04	0.86
1:A:470:ILE:HD11	1:A:517:ARG:HG2	1.57	0.86
1:A:689:TYR:CD2	1:A:815:ASN:OD1	2.29	0.86
1:B:260:ILE:HG22	1:B:263:THR:CG2	2.04	0.86
1:B:385:LYS:HE3	1:B:537:ARG:CB	2.04	0.86
1:B:394:TYR:HE2	1:B:529:ILE:HD11	1.40	0.86
1:B:566:ARG:HB2	1:B:586:LEU:HA	1.57	0.86
1:B:618:VAL:HA	1:B:621:ILE:HD11	1.57	0.86
1:A:49:ILE:HB	1:A:275:LEU:O	1.75	0.86
1:A:82:THR:HG22	1:A:244:GLN:NE2	1.89	0.86
1:A:715:ARG:HG3	1:A:790:PHE:CD2	2.11	0.86
1:B:722:VAL:O	1:B:725:ILE:HG22	1.75	0.86
1:A:65:GLU:O	1:A:65:GLU:HG2	1.74	0.86
1:A:93:VAL:HG11	1:A:97:ARG:HH21	1.40	0.86
1:A:484:VAL:HB	1:A:526:ILE:CG2	2.06	0.86
1:A:557:LEU:HG	1:A:607:PHE:CE2	2.09	0.86
1:A:566:ARG:HB2	1:A:586:LEU:HA	1.57	0.86
1:A:591:ASP:OD1	1:A:592:MET:HE2	1.54	0.86
1:A:612:PRO:HA	1:A:637:ASN:HD22	1.41	0.86
1:A:725:ILE:O	1:A:725:ILE:HD13	1.76	0.86
1:A:811:ILE:HG23	1:A:867:ILE:HD13	1.56	0.86
1:B:73:ARG:O	1:B:75:VAL:HG23	1.75	0.86
1:B:93:VAL:CG1	1:B:97:ARG:CZ	2.54	0.86
1:B:182:VAL:CG2	1:B:200:ASP:CB	2.43	0.86
1:B:407:THR:HB	1:B:527:LEU:CD1	2.05	0.86
1:B:652:GLU:HG3	1:B:667:LEU:HD13	0.87	0.86
1:A:305:LEU:N	1:A:305:LEU:HD23	1.90	0.86
1:A:383:LEU:HD23	1:A:671:LEU:HB2	1.57	0.86
1:A:652:GLU:HG3	1:A:667:LEU:HD13	0.87	0.86
1:A:683:GLN:HG2	1:A:743:TYR:CD1	2.10	0.86
1:B:618:VAL:HA	1:B:621:ILE:CD1	2.04	0.86
1:B:742:PRO:O	1:B:744:SER:N	2.08	0.86
1:B:796:VAL:HG12	1:B:800:GLN:NE2	1.91	0.86
1:A:93:VAL:HG12	1:A:97:ARG:CZ	2.06	0.86
1:A:566:ARG:HA	1:A:585:GLY:O	1.74	0.86
1:A:727:ILE:HD12	1:A:728:PHE:N	1.91	0.86
1:B:346:MET:CG	1:B:363:LEU:CB	2.52	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:506:ALA:CA	1:B:510:PHE:CD2	2.57	0.86
1:A:420:ASP:CG	1:A:421:ALA:H	1.82	0.86
1:A:619:VAL:HG21	1:A:641:SER:HA	1.57	0.86
1:A:722:VAL:O	1:A:725:ILE:HG22	1.75	0.86
1:A:804:THR:O	1:A:807:TRP:N	2.09	0.86
1:B:84:THR:HB	1:B:215:ARG:HD3	1.57	0.86
1:B:93:VAL:HG21	1:B:197:VAL:HG11	1.56	0.86
1:B:484:VAL:HB	1:B:526:ILE:CG2	2.06	0.86
1:B:671:LEU:O	1:B:674:ILE:CD1	2.23	0.86
1:B:725:ILE:O	1:B:725:ILE:HD13	1.76	0.86
1:A:185:ASP:OD2	1:A:189:LYS:HD2	1.76	0.85
1:A:406:LEU:HD21	1:A:470:ILE:HG12	1.57	0.85
1:A:429:SER:HA	1:A:432:TYR:HD2	1.39	0.85
1:B:437:LYS:HD3	1:B:437:LYS:H	1.34	0.85
1:B:583:ARG:HB2	1:B:603:ALA:C	2.01	0.85
1:B:591:ASP:OD1	1:B:592:MET:HE2	1.54	0.85
1:B:689:TYR:CD2	1:B:815:ASN:OD1	2.29	0.85
1:B:750:TRP:CE2	1:B:753:PRO:CG	2.59	0.85
1:B:766:LEU:O	1:B:770:THR:HG23	1.76	0.85
1:B:804:THR:O	1:B:807:TRP:N	2.08	0.85
1:A:71:GLY:HA2	1:A:230:LEU:CG	2.02	0.85
1:A:73:ARG:O	1:A:75:VAL:HG23	1.75	0.85
1:A:407:THR:HB	1:A:527:LEU:CD1	2.05	0.85
1:A:413:SER:OG	1:A:474:LYS:CD	2.24	0.85
1:A:485:GLU:HB2	1:A:524:TRP:CD1	2.11	0.85
1:A:601:VAL:CG1	1:A:602:GLU:H	1.88	0.85
1:A:724:PHE:CE1	1:A:837:LEU:HD23	2.10	0.85
1:B:49:ILE:HB	1:B:275:LEU:O	1.75	0.85
1:B:246:PHE:CD1	1:B:269:VAL:HG21	2.11	0.85
1:B:309:TRP:CA	1:B:322:ILE:HB	2.06	0.85
1:B:370:ALA:HA	1:B:681:SER:CB	2.05	0.85
1:B:678:LEU:O	1:B:682:ARG:HG2	1.75	0.85
1:A:210:ILE:CG1	1:A:245:VAL:HG22	2.06	0.85
1:B:93:VAL:HG12	1:B:97:ARG:CZ	2.05	0.85
1:B:817:PRO:O	1:B:875:TYR:CD2	2.28	0.85
1:A:180:ALA:HB3	1:A:191:ILE:O	1.75	0.85
1:A:319:ILE:C	1:A:322:ILE:HG12	2.00	0.85
1:A:818:PHE:HB2	1:A:875:TYR:HB2	1.55	0.85
1:B:17:GLU:HG2	1:B:189:LYS:HZ3	1.37	0.85
1:B:210:ILE:CG1	1:B:245:VAL:CG2	2.54	0.85
1:B:611:PHE:CB	1:B:612:PRO:HD2	2.02	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:PHE:CD1	1:A:269:VAL:HG21	2.11	0.85
1:A:305:LEU:CD2	1:A:329:ILE:HG22	2.06	0.85
1:A:513:LEU:HD12	1:A:515:VAL:HG13	1.58	0.85
1:B:21:PHE:HD1	1:B:21:PHE:H	1.19	0.85
1:B:346:MET:HG2	1:B:363:LEU:HB3	1.59	0.85
1:B:483:THR:C	1:B:524:TRP:HB3	2.02	0.85
1:B:518:LYS:CD	1:B:523:SER:HB2	1.93	0.85
1:A:78:ASP:HA	1:A:81:GLN:HG3	1.48	0.85
1:A:93:VAL:CG2	1:A:197:VAL:HB	2.07	0.85
1:A:591:ASP:CG	1:A:592:MET:CE	2.42	0.85
1:B:433:TYR:CB	1:B:434:PRO:HD2	2.07	0.85
1:B:543:THR:HG21	1:B:672:GLY:HA2	1.57	0.85
1:B:724:PHE:CE1	1:B:837:LEU:HD23	2.10	0.85
1:A:84:THR:HB	1:A:215:ARG:HD3	1.57	0.85
1:A:88:LEU:HD22	1:A:198:PRO:O	1.75	0.85
1:A:325:PHE:CE1	1:A:709:TRP:CD1	2.64	0.85
1:A:388:LEU:CD1	1:A:415:LYS:HD2	2.07	0.85
1:A:433:TYR:CB	1:A:434:PRO:HD2	2.07	0.85
1:A:536:PRO:O	1:A:537:ARG:HB2	1.75	0.85
1:A:683:GLN:OE1	1:A:739:ASP:HB3	1.76	0.85
1:B:518:LYS:HD3	1:B:523:SER:CA	2.05	0.85
1:B:536:PRO:O	1:B:537:ARG:HB2	1.75	0.85
1:A:483:THR:C	1:A:524:TRP:HB3	2.02	0.85
1:A:583:ARG:HB2	1:A:603:ALA:C	2.01	0.85
1:A:683:GLN:HG3	1:A:743:TYR:CD1	2.12	0.85
1:B:16:ILE:HG22	1:B:176:LEU:HD13	1.56	0.85
1:B:607:PHE:CE1	1:B:610:VAL:CG2	2.60	0.85
1:B:683:GLN:OE1	1:B:739:ASP:HB3	1.76	0.85
1:A:210:ILE:CG1	1:A:245:VAL:CG2	2.54	0.85
1:A:309:TRP:CA	1:A:322:ILE:HB	2.06	0.85
1:A:583:ARG:HB2	1:A:603:ALA:CB	2.04	0.85
1:A:589:GLY:O	1:A:591:ASP:N	2.10	0.85
1:A:678:LEU:O	1:A:682:ARG:HG2	1.75	0.85
1:A:882:VAL:HG12	1:A:884:PHE:HD1	1.39	0.85
1:B:94:VAL:CG2	1:B:98:ARG:NH2	2.40	0.85
1:B:161:GLN:NE2	1:B:337:GLY:HA3	1.92	0.85
1:B:413:SER:OG	1:B:474:LYS:CD	2.24	0.85
1:B:523:SER:HA	1:B:524:TRP:CE3	2.11	0.85
1:B:694:TYR:HB2	1:B:812:THR:HG23	1.59	0.85
1:A:341:VAL:O	1:A:344:THR:HG22	1.76	0.85
1:A:524:TRP:CE3	1:A:524:TRP:N	2.45	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:LEU:CG	1:A:805:GLU:HG2	2.07	0.85
1:A:724:PHE:CZ	1:A:837:LEU:CB	2.56	0.85
1:A:736:ILE:CG2	1:A:738:TYR:CE1	2.59	0.85
1:B:485:GLU:HB2	1:B:524:TRP:CD1	2.11	0.85
1:B:557:LEU:HG	1:B:607:PHE:CE2	2.09	0.85
1:A:86:VAL:CB	1:A:261:THR:HG23	2.07	0.84
1:A:618:VAL:HA	1:A:621:ILE:HD11	1.57	0.84
1:A:689:TYR:HD2	1:A:815:ASN:CB	1.84	0.84
1:B:193:ALA:HA	1:B:196:VAL:HG21	1.57	0.84
1:B:517:ARG:C	1:B:517:ARG:CD	2.47	0.84
1:B:724:PHE:CZ	1:B:837:LEU:CB	2.56	0.84
1:B:727:ILE:HD12	1:B:728:PHE:N	1.91	0.84
1:B:736:ILE:CG2	1:B:738:TYR:CE1	2.59	0.84
1:A:401:PRO:HG2	1:A:487:ASP:OD2	1.77	0.84
1:A:778:TYR:OH	1:B:310:VAL:CG2	2.25	0.84
1:B:85:ARG:O	1:B:86:VAL:CG2	2.25	0.84
1:B:86:VAL:CB	1:B:261:THR:HG23	2.07	0.84
1:B:134:LEU:HD13	1:B:134:LEU:C	2.01	0.84
1:B:305:LEU:HD23	1:B:305:LEU:N	1.90	0.84
1:B:484:VAL:HG23	1:B:526:ILE:HG23	1.56	0.84
1:B:675:ILE:HG22	1:B:679:LYS:HE2	1.58	0.84
1:B:694:TYR:CE1	1:B:805:GLU:O	2.29	0.84
1:A:346:MET:HG2	1:A:363:LEU:HB3	1.59	0.84
1:B:93:VAL:CG2	1:B:197:VAL:HB	2.07	0.84
1:B:185:ASP:OD2	1:B:189:LYS:HD2	1.76	0.84
1:B:484:VAL:CA	1:B:524:TRP:CB	2.53	0.84
1:B:498:TYR:HE1	1:B:529:ILE:HG23	1.43	0.84
1:B:524:TRP:CE3	1:B:524:TRP:N	2.45	0.84
1:A:16:ILE:HD12	1:A:667:LEU:HD21	1.59	0.84
1:B:513:LEU:HD13	1:B:513:LEU:C	2.01	0.84
1:B:612:PRO:HA	1:B:637:ASN:HD22	1.41	0.84
1:B:736:ILE:HG22	1:B:738:TYR:CE1	2.13	0.84
1:A:161:GLN:NE2	1:A:337:GLY:HA3	1.91	0.84
1:A:607:PHE:CE1	1:A:610:VAL:CG2	2.60	0.84
1:A:750:TRP:CE2	1:A:753:PRO:CG	2.59	0.84
1:A:766:LEU:O	1:A:770:THR:HG23	1.76	0.84
1:A:905:PHE:O	1:A:908:SER:HB2	1.77	0.84
1:B:470:ILE:HD11	1:B:517:ARG:HG2	1.57	0.84
1:B:589:GLY:O	1:B:597:VAL:HG21	1.75	0.84
1:A:179:LYS:O	1:A:179:LYS:HG2	1.76	0.84
1:A:484:VAL:C	1:A:524:TRP:CB	2.46	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:GLY:O	1:A:597:VAL:HG21	1.75	0.84
1:A:694:TYR:CE1	1:A:805:GLU:O	2.29	0.84
1:B:24:LYS:CG	1:B:171:GLU:HA	2.06	0.84
1:B:81:GLN:O	1:B:82:THR:C	2.21	0.84
1:B:88:LEU:HD22	1:B:198:PRO:O	1.75	0.84
1:B:289:VAL:HG12	1:B:756:TRP:CG	2.12	0.84
1:B:304:THR:OG1	1:B:305:LEU:HD23	1.77	0.84
1:B:305:LEU:CD2	1:B:329:ILE:HG22	2.06	0.84
1:B:668:ALA:O	1:B:670:GLY:N	2.10	0.84
1:B:698:LEU:CG	1:B:805:GLU:HG2	2.07	0.84
1:B:852:THR:O	1:B:856:ALA:CB	2.24	0.84
1:A:312:SER:HB3	1:A:322:ILE:CG2	2.08	0.84
1:B:285:HIS:CG	1:B:286:PHE:H	1.96	0.84
1:B:329:ILE:CG1	1:B:706:LEU:HD12	2.00	0.84
1:B:341:VAL:O	1:B:344:THR:HG22	1.76	0.84
1:B:652:GLU:HG3	1:B:667:LEU:HD12	1.56	0.84
1:B:890:GLY:C	1:B:893:PRO:HG2	2.03	0.84
1:A:304:THR:OG1	1:A:305:LEU:HD23	1.77	0.84
1:A:511:ARG:HB2	1:A:564:ILE:HD13	1.60	0.84
1:A:675:ILE:HG22	1:A:679:LYS:HE2	1.58	0.84
1:A:678:LEU:O	1:A:682:ARG:HG3	1.78	0.84
1:A:736:ILE:HG22	1:A:738:TYR:CE1	2.13	0.84
1:B:286:PHE:CE2	1:B:688:MET:CE	2.58	0.84
1:A:24:LYS:CG	1:A:171:GLU:HA	2.06	0.84
1:A:227:GLN:OE1	1:A:246:PHE:CE2	2.28	0.84
1:A:399:VAL:CB	1:A:401:PRO:HD2	2.07	0.84
1:A:523:SER:HA	1:A:524:TRP:CE3	2.11	0.84
1:A:862:ILE:HD11	1:A:863:PHE:CD1	2.13	0.84
1:B:201:ILE:HG21	1:B:257:PHE:CE2	2.13	0.84
1:B:511:ARG:HB2	1:B:564:ILE:HD13	1.60	0.84
1:B:592:MET:HE2	1:B:592:MET:H	1.39	0.84
1:B:886:ASN:O	1:B:889:HIS:HB2	1.78	0.84
1:A:85:ARG:O	1:A:86:VAL:CG2	2.25	0.84
1:A:371:GLY:O	1:A:748:VAL:HG11	1.78	0.84
1:A:484:VAL:HG23	1:A:526:ILE:HG23	1.56	0.84
1:A:518:LYS:CD	1:A:523:SER:HB2	1.93	0.84
1:B:179:LYS:O	1:B:179:LYS:HG2	1.76	0.84
1:B:399:VAL:CB	1:B:401:PRO:HD2	2.07	0.84
1:B:518:LYS:HD3	1:B:523:SER:H	0.70	0.84
1:B:678:LEU:O	1:B:682:ARG:HG3	1.78	0.84
1:B:905:PHE:O	1:B:908:SER:HB2	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:VAL:CG2	1:A:98:ARG:NH2	2.40	0.83
1:A:134:LEU:HD13	1:A:134:LEU:C	2.01	0.83
1:A:405:MET:SD	1:A:439:VAL:HG21	2.18	0.83
1:A:410:LEU:HB2	1:A:472:CYS:SG	2.18	0.83
1:A:536:PRO:HB3	1:A:572:LEU:HD11	1.59	0.83
1:B:202:LEU:HG	1:B:260:ILE:HD11	1.60	0.83
1:B:260:ILE:CG2	1:B:263:THR:CG2	2.56	0.83
1:B:325:PHE:CE1	1:B:709:TRP:CD1	2.64	0.83
1:B:390:LEU:CD2	1:B:531:PRO:O	2.26	0.83
1:B:484:VAL:C	1:B:524:TRP:CB	2.46	0.83
1:A:483:THR:O	1:A:484:VAL:O	1.96	0.83
1:A:668:ALA:O	1:A:670:GLY:N	2.10	0.83
1:A:727:ILE:O	1:A:731:VAL:CG2	2.26	0.83
1:B:407:THR:CB	1:B:527:LEU:CD2	2.55	0.83
1:B:433:TYR:HB2	1:B:434:PRO:HD2	1.60	0.83
1:B:483:THR:O	1:B:484:VAL:O	1.96	0.83
1:B:510:PHE:CE1	1:B:512:SER:CA	2.62	0.83
1:B:513:LEU:HD12	1:B:515:VAL:HG13	1.58	0.83
1:A:285:HIS:CG	1:A:286:PHE:H	1.96	0.83
1:A:286:PHE:CE2	1:A:290:LEU:CD1	2.62	0.83
1:A:390:LEU:CD2	1:A:531:PRO:O	2.26	0.83
1:A:407:THR:CB	1:A:527:LEU:CD2	2.55	0.83
1:A:808:LEU:CD1	1:A:811:ILE:CD1	2.07	0.83
1:B:93:VAL:HG22	1:B:197:VAL:HB	1.60	0.83
1:B:312:SER:HB3	1:B:322:ILE:CG2	2.08	0.83
1:B:515:VAL:CG2	1:B:528:GLY:O	2.26	0.83
1:B:546:GLU:OE1	1:B:679:LYS:NZ	2.11	0.83
1:A:93:VAL:HG22	1:A:197:VAL:HB	1.60	0.83
1:A:201:ILE:HG21	1:A:257:PHE:CE2	2.13	0.83
1:A:239:LYS:HB3	1:A:243:ASP:OD1	1.78	0.83
1:A:260:ILE:CG2	1:A:263:THR:CG2	2.56	0.83
1:A:518:LYS:HG3	1:A:519:ARG:N	1.89	0.83
1:A:886:ASN:O	1:A:889:HIS:HB2	1.78	0.83
1:A:890:GLY:C	1:A:893:PRO:HG2	2.03	0.83
1:B:410:LEU:HB2	1:B:472:CYS:SG	2.18	0.83
1:A:484:VAL:CA	1:A:524:TRP:CB	2.53	0.83
1:A:515:VAL:CG2	1:A:528:GLY:O	2.26	0.83
1:B:132:ALA:CB	1:B:144:PHE:HB2	2.07	0.83
1:B:146:VAL:CG2	1:B:719:ILE:CG1	2.55	0.83
1:B:239:LYS:HB3	1:B:243:ASP:OD1	1.78	0.83
1:B:401:PRO:HG2	1:B:487:ASP:OD2	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:LEU:CB	1:B:472:CYS:SG	2.66	0.83
1:B:694:TYR:CE1	1:B:809:ILE:HB	2.14	0.83
1:B:696:ILE:CG2	1:B:765:VAL:HG21	2.02	0.83
1:B:715:ARG:HG3	1:B:790:PHE:CD2	2.11	0.83
1:B:768:VAL:HG21	1:B:811:ILE:HD11	1.61	0.83
1:A:81:GLN:O	1:A:82:THR:C	2.21	0.83
1:A:286:PHE:CE2	1:A:688:MET:CE	2.58	0.83
1:A:510:PHE:CE1	1:A:512:SER:CA	2.62	0.83
1:A:513:LEU:HD13	1:A:513:LEU:C	2.01	0.83
1:A:676:ASP:HA	1:A:679:LYS:HD2	1.59	0.83
1:A:694:TYR:CB	1:A:812:THR:CG2	2.19	0.83
1:A:768:VAL:HG21	1:A:811:ILE:HD11	1.61	0.83
1:B:185:ASP:CG	1:B:189:LYS:HD2	2.03	0.83
1:B:227:GLN:OE1	1:B:246:PHE:CE2	2.28	0.83
1:B:683:GLN:HG3	1:B:743:TYR:CD1	2.12	0.83
1:A:69:PRO:O	1:A:75:VAL:HG22	1.76	0.83
1:A:125:GLN:CA	1:A:151:LEU:CD1	2.56	0.83
1:A:185:ASP:CG	1:A:189:LYS:HD2	2.03	0.83
1:A:289:VAL:HG12	1:A:756:TRP:CG	2.12	0.83
1:A:410:LEU:CB	1:A:472:CYS:SG	2.66	0.83
1:A:427:LEU:CB	1:A:440:LEU:CD2	2.43	0.83
1:A:728:PHE:CD2	1:A:834:VAL:HG11	2.13	0.83
1:B:80:LEU:CD2	1:B:80:LEU:N	2.16	0.83
1:B:286:PHE:CE2	1:B:290:LEU:CD1	2.62	0.83
1:B:502:VAL:O	1:B:510:PHE:CE2	2.32	0.83
1:B:728:PHE:CD2	1:B:834:VAL:HG11	2.13	0.83
1:A:305:LEU:HD13	1:A:329:ILE:HB	0.84	0.83
1:A:787:VAL:O	1:A:788:GLN:HB2	1.77	0.83
1:B:383:LEU:HD23	1:B:671:LEU:HB2	1.57	0.83
1:B:405:MET:SD	1:B:439:VAL:HG21	2.18	0.83
1:B:407:THR:CG2	1:B:517:ARG:HG2	2.05	0.83
1:B:533:MET:HG2	1:B:534:ASP:N	1.93	0.83
1:B:589:GLY:O	1:B:591:ASP:N	2.10	0.83
1:B:679:LYS:CB	1:B:743:TYR:OH	2.26	0.83
1:A:16:ILE:CD1	1:A:667:LEU:CD1	2.37	0.83
1:A:22:ASP:O	1:A:24:LYS:N	2.12	0.83
1:A:384:THR:OG1	1:A:534:ASP:HB2	1.79	0.83
1:A:890:GLY:O	1:A:893:PRO:CG	2.23	0.83
1:A:407:THR:CB	1:A:527:LEU:HD22	2.09	0.83
1:A:433:TYR:HB2	1:A:434:PRO:HD2	1.60	0.83
1:B:22:ASP:O	1:B:24:LYS:N	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:VAL:HG12	1:B:79:MET:HG3	1.61	0.83
1:B:125:GLN:CA	1:B:151:LEU:CD1	2.56	0.83
1:B:231:THR:HG22	1:B:232:GLY:H	1.44	0.83
1:B:305:LEU:HD13	1:B:329:ILE:HB	0.84	0.83
1:A:146:VAL:CG2	1:A:719:ILE:HG21	2.09	0.82
1:A:420:ASP:OD1	1:A:421:ALA:N	2.10	0.82
1:A:502:VAL:O	1:A:510:PHE:CE2	2.32	0.82
1:A:533:MET:HG2	1:A:534:ASP:N	1.93	0.82
1:B:420:ASP:OD1	1:B:421:ALA:N	2.10	0.82
1:A:75:VAL:HG12	1:A:79:MET:HG3	1.61	0.82
1:A:510:PHE:CE1	1:A:512:SER:CB	2.58	0.82
1:A:796:VAL:HG12	1:A:800:GLN:NE2	1.91	0.82
1:A:852:THR:O	1:A:856:ALA:CB	2.24	0.82
1:B:375:LEU:CD1	1:B:552:LEU:CD2	2.52	0.82
1:B:536:PRO:HB3	1:B:572:LEU:HD11	1.59	0.82
1:A:82:THR:HG22	1:A:244:GLN:HE21	1.43	0.82
1:A:518:LYS:HD3	1:A:523:SER:H	0.70	0.82
1:A:713:LEU:O	1:A:714:ASN:ND2	2.12	0.82
1:A:67:ALA:HB1	1:A:268:PHE:HA	1.61	0.82
1:A:132:ALA:CB	1:A:144:PHE:HB2	2.07	0.82
1:A:260:ILE:CG2	1:A:263:THR:HG22	2.10	0.82
1:A:679:LYS:CB	1:A:743:TYR:OH	2.26	0.82
1:A:682:ARG:HH12	1:A:744:SER:HB3	1.39	0.82
1:B:32:GLN:CB	1:B:33:PRO:HD3	2.10	0.82
1:B:49:ILE:CB	1:B:275:LEU:O	2.28	0.82
1:B:71:GLY:HA3	1:B:230:LEU:CD1	2.09	0.82
1:B:146:VAL:CG2	1:B:719:ILE:HG21	2.09	0.82
1:B:484:VAL:CB	1:B:526:ILE:CG2	2.54	0.82
1:B:727:ILE:O	1:B:731:VAL:CG2	2.26	0.82
1:A:16:ILE:HG22	1:A:176:LEU:CD1	2.10	0.82
1:A:191:ILE:HD13	1:A:192:GLU:H	1.43	0.82
1:A:231:THR:HG22	1:A:232:GLY:H	1.44	0.82
1:A:445:VAL:HG22	1:A:462:VAL:HG12	1.61	0.82
1:A:601:VAL:CG1	1:A:602:GLU:N	2.42	0.82
1:A:819:TRP:O	1:A:819:TRP:CD1	2.33	0.82
1:B:445:VAL:HG22	1:B:462:VAL:HG12	1.61	0.82
1:B:484:VAL:HG21	1:B:526:ILE:HG23	1.50	0.82
1:B:511:ARG:HB2	1:B:564:ILE:CD1	2.09	0.82
1:B:799:LEU:CD1	1:B:842:THR:OG1	2.25	0.82
1:A:217:VAL:HG12	1:A:257:PHE:C	2.04	0.82
1:A:227:GLN:NE2	1:A:246:PHE:CE2	2.48	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:ARG:CG	1:A:517:ARG:HH11	1.92	0.82
1:B:16:ILE:HD12	1:B:667:LEU:HD21	1.59	0.82
1:B:217:VAL:HG12	1:B:257:PHE:C	2.04	0.82
1:B:260:ILE:CG2	1:B:263:THR:HG22	2.10	0.82
1:A:17:GLU:HG2	1:A:189:LYS:HZ3	1.41	0.82
1:A:202:LEU:HG	1:A:260:ILE:HD11	1.60	0.82
1:A:399:VAL:HG11	1:A:401:PRO:HG2	1.61	0.82
1:B:371:GLY:O	1:B:748:VAL:HG11	1.78	0.82
1:B:416:LYS:C	1:B:417:LYS:HG3	2.04	0.82
1:B:676:ASP:HA	1:B:679:LYS:CE	2.10	0.82
1:B:713:LEU:O	1:B:714:ASN:ND2	2.12	0.82
1:B:862:ILE:HD11	1:B:863:PHE:CD1	2.13	0.82
1:A:409:CYS:SG	1:A:439:VAL:HG13	2.20	0.82
1:B:88:LEU:CD1	1:B:93:VAL:CG2	2.49	0.82
1:B:814:ALA:HB1	1:B:817:PRO:CG	2.09	0.82
1:A:71:GLY:HA3	1:A:230:LEU:CD1	2.09	0.82
1:B:69:PRO:O	1:B:75:VAL:HG22	1.76	0.82
1:B:120:PHE:C	1:B:123:PRO:HD2	2.05	0.82
1:B:227:GLN:NE2	1:B:246:PHE:CE2	2.48	0.82
1:B:246:PHE:CE2	1:B:248:SER:CB	2.46	0.82
1:B:247:ALA:CB	1:B:269:VAL:CB	2.53	0.82
1:B:819:TRP:O	1:B:819:TRP:CD1	2.33	0.82
1:A:385:LYS:CE	1:A:537:ARG:CB	2.58	0.82
1:A:407:THR:HG21	1:A:517:ARG:HB3	1.62	0.82
1:A:796:VAL:HG12	1:A:800:GLN:CD	2.05	0.82
1:A:814:ALA:HB1	1:A:817:PRO:HD2	1.62	0.82
1:B:303:PHE:CE2	1:B:307:ILE:HD11	2.15	0.82
1:B:384:THR:OG1	1:B:534:ASP:HB2	1.79	0.82
1:B:407:THR:HG21	1:B:517:ARG:HB3	1.62	0.82
1:B:676:ASP:CA	1:B:679:LYS:HE3	2.10	0.82
1:A:607:PHE:CE1	1:A:610:VAL:HG23	2.15	0.81
1:A:694:TYR:CE1	1:A:809:ILE:HB	2.14	0.81
1:A:799:LEU:CD1	1:A:842:THR:OG1	2.25	0.81
1:B:607:PHE:CE1	1:B:610:VAL:HG23	2.15	0.81
1:A:394:TYR:CD1	1:A:394:TYR:C	2.58	0.81
1:A:498:TYR:HE1	1:A:529:ILE:HG23	1.43	0.81
1:A:546:GLU:OE1	1:A:679:LYS:NZ	2.11	0.81
1:B:16:ILE:HG22	1:B:176:LEU:CD1	2.10	0.81
1:B:82:THR:HG22	1:B:244:GLN:HE21	1.43	0.81
1:B:106:LYS:HZ1	1:B:361:GLN:HE21	0.83	0.81
1:B:399:VAL:O	1:B:401:PRO:CD	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:GLN:CB	1:A:33:PRO:HD3	2.10	0.81
1:A:94:VAL:HG22	1:A:98:ARG:NH2	1.95	0.81
1:A:120:PHE:C	1:A:123:PRO:HD2	2.05	0.81
1:A:394:TYR:CD1	1:A:394:TYR:O	2.33	0.81
1:B:16:ILE:HD13	1:B:667:LEU:CD2	2.10	0.81
1:B:510:PHE:CE1	1:B:512:SER:CB	2.58	0.81
1:B:796:VAL:HG12	1:B:800:GLN:CD	2.05	0.81
1:B:814:ALA:HB1	1:B:817:PRO:HD2	1.62	0.81
1:A:302:ILE:O	1:A:306:LEU:HG	1.81	0.81
1:A:303:PHE:CE2	1:A:307:ILE:HD11	2.15	0.81
1:A:407:THR:CG2	1:A:517:ARG:HG2	2.05	0.81
1:A:416:LYS:C	1:A:417:LYS:HG3	2.04	0.81
1:A:543:THR:OG1	1:A:675:ILE:HB	1.80	0.81
1:A:592:MET:O	1:A:594:GLY:N	2.13	0.81
1:A:707:GLY:O	1:A:710:ILE:HB	1.80	0.81
1:B:191:ILE:HD13	1:B:192:GLU:H	1.43	0.81
1:B:409:CYS:SG	1:B:439:VAL:HG13	2.20	0.81
1:B:437:LYS:HG2	1:B:438:SER:OG	1.80	0.81
1:B:484:VAL:O	1:B:524:TRP:CD1	2.33	0.81
1:B:676:ASP:HA	1:B:679:LYS:HD2	1.60	0.81
1:B:683:GLN:HG2	1:B:743:TYR:CE1	2.14	0.81
1:A:21:PHE:CD1	1:A:21:PHE:N	2.48	0.81
1:A:53:GLU:CD	1:A:272:ALA:HA	2.05	0.81
1:A:511:ARG:HB2	1:A:564:ILE:CD1	2.09	0.81
1:A:715:ARG:HG2	1:A:790:PHE:CD2	2.13	0.81
1:B:78:ASP:OD1	1:B:81:GLN:CG	2.29	0.81
1:B:302:ILE:O	1:B:306:LEU:HG	1.81	0.81
1:B:517:ARG:CG	1:B:517:ARG:HH11	1.92	0.81
1:A:49:ILE:CB	1:A:275:LEU:O	2.28	0.81
1:A:346:MET:HG2	1:A:363:LEU:CB	2.10	0.81
1:A:679:LYS:C	1:A:743:TYR:HE1	1.89	0.81
1:B:394:TYR:O	1:B:394:TYR:CD1	2.33	0.81
1:B:484:VAL:HG23	1:B:526:ILE:N	1.94	0.81
1:B:543:THR:OG1	1:B:675:ILE:HB	1.80	0.81
1:A:50:GLU:O	1:A:55:HIS:CE1	2.34	0.81
1:A:178:LEU:HD12	1:A:179:LYS:H	1.44	0.81
1:A:484:VAL:CB	1:A:526:ILE:CG2	2.54	0.81
1:A:505:PHE:HB3	1:A:510:PHE:CB	2.10	0.81
1:A:663:ASP:CB	1:A:664:ILE:CD1	2.59	0.81
1:B:309:TRP:HB3	1:B:326:THR:CG2	2.09	0.81
1:B:505:PHE:HB3	1:B:510:PHE:CB	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:PHE:CA	1:B:532:CYS:O	2.29	0.81
1:A:178:LEU:HD22	1:A:659:ARG:HH21	1.46	0.81
1:A:484:VAL:O	1:A:524:TRP:CD1	2.33	0.81
1:A:506:ALA:CB	1:A:510:PHE:CD2	2.63	0.81
1:A:676:ASP:HA	1:A:679:LYS:CE	2.10	0.81
1:A:882:VAL:O	1:A:884:PHE:N	2.14	0.81
1:B:407:THR:CB	1:B:527:LEU:HD22	2.09	0.81
1:A:319:ILE:HA	1:A:322:ILE:CD1	2.10	0.81
1:A:437:LYS:HG2	1:A:438:SER:OG	1.80	0.81
1:A:498:TYR:HE1	1:A:529:ILE:CG2	1.94	0.81
1:A:702:LEU:O	1:A:706:LEU:HG	1.81	0.81
1:A:736:ILE:HD13	1:A:827:LEU:HD23	1.53	0.81
1:B:346:MET:HG2	1:B:363:LEU:CB	2.10	0.81
1:B:383:LEU:HD21	1:B:671:LEU:HD13	1.63	0.81
1:B:679:LYS:C	1:B:743:TYR:HE1	1.89	0.81
1:B:694:TYR:CZ	1:B:809:ILE:HB	2.15	0.81
1:B:750:TRP:NE1	1:B:753:PRO:CG	2.41	0.81
1:A:82:THR:O	1:A:83:ASP:HB2	1.81	0.81
1:B:178:LEU:HD12	1:B:179:LYS:H	1.44	0.81
1:B:217:VAL:HG11	1:B:257:PHE:HD2	1.45	0.81
1:B:319:ILE:HA	1:B:322:ILE:CD1	2.10	0.81
1:B:344:THR:O	1:B:348:VAL:HG22	1.81	0.81
1:B:385:LYS:CE	1:B:537:ARG:CB	2.58	0.81
1:B:389:SER:HB3	1:B:420:ASP:OD2	1.81	0.81
1:B:506:ALA:CB	1:B:510:PHE:CD2	2.63	0.81
1:B:787:VAL:O	1:B:788:GLN:HB2	1.77	0.81
1:B:822:ILE:N	1:B:823:PRO:HD3	1.93	0.81
1:A:217:VAL:HG11	1:A:257:PHE:HD2	1.45	0.80
1:A:375:LEU:CD1	1:A:552:LEU:CD2	2.52	0.80
1:B:388:LEU:CD1	1:B:415:LYS:HD2	2.07	0.80
1:B:803:LEU:HD21	1:B:860:ILE:HG22	1.62	0.80
1:A:16:ILE:HD13	1:A:667:LEU:CD2	2.10	0.80
1:A:246:PHE:HB2	1:A:268:PHE:CB	2.11	0.80
1:A:389:SER:HB3	1:A:420:ASP:OD2	1.81	0.80
1:A:814:ALA:HB1	1:A:817:PRO:CG	2.09	0.80
1:A:822:ILE:N	1:A:823:PRO:HD3	1.93	0.80
1:B:80:LEU:H	1:B:80:LEU:HD23	0.64	0.80
1:B:94:VAL:HG22	1:B:98:ARG:NH2	1.95	0.80
1:B:241:LYS:O	1:B:242:GLY:C	2.24	0.80
1:B:702:LEU:O	1:B:706:LEU:HG	1.81	0.80
1:A:241:LYS:O	1:A:242:GLY:C	2.24	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:TRP:HB3	1:A:326:THR:CG2	2.09	0.80
1:A:676:ASP:CA	1:A:679:LYS:HE3	2.10	0.80
1:B:196:VAL:HG23	1:B:196:VAL:O	1.82	0.80
1:B:216:ILE:CD1	1:B:243:ASP:CB	2.46	0.80
1:B:394:TYR:CD1	1:B:394:TYR:C	2.58	0.80
1:A:78:ASP:OD1	1:A:81:GLN:CG	2.29	0.80
1:A:383:LEU:HD21	1:A:671:LEU:HD13	1.63	0.80
1:A:663:ASP:HB2	1:A:664:ILE:CD1	2.12	0.80
1:B:53:GLU:CD	1:B:272:ALA:HA	2.05	0.80
1:B:379:LYS:CE	1:B:534:ASP:OD2	2.25	0.80
1:B:882:VAL:O	1:B:884:PHE:N	2.14	0.80
1:A:146:VAL:CG2	1:A:719:ILE:CG1	2.55	0.80
1:A:607:PHE:CD1	1:A:610:VAL:HG21	2.16	0.80
1:A:694:TYR:CZ	1:A:809:ILE:HB	2.15	0.80
1:A:698:LEU:HD13	1:A:805:GLU:HA	1.64	0.80
1:A:882:VAL:HG12	1:A:884:PHE:CD1	2.17	0.80
1:A:912:VAL:HG12	1:A:915:GLN:HB3	1.62	0.80
1:B:50:GLU:O	1:B:55:HIS:CE1	2.34	0.80
1:B:176:LEU:HD23	1:B:191:ILE:HD11	1.64	0.80
1:B:285:HIS:CD2	1:B:286:PHE:N	2.50	0.80
1:B:325:PHE:HE1	1:B:709:TRP:NE1	1.76	0.80
1:B:698:LEU:HD13	1:B:805:GLU:HA	1.64	0.80
1:B:795:GLU:O	1:B:799:LEU:HG	1.82	0.80
1:B:796:VAL:HG11	1:B:800:GLN:NE2	1.93	0.80
1:A:780:GLN:HG3	1:A:783:ASN:OD1	1.80	0.80
1:B:591:ASP:CA	1:B:592:MET:HE1	1.94	0.80
1:B:780:GLN:HG3	1:B:783:ASN:OD1	1.80	0.80
1:A:768:VAL:HG21	1:A:808:LEU:CD1	2.12	0.80
1:B:74:VAL:CA	1:B:76:PRO:HD3	2.12	0.80
1:B:813:ARG:HG2	1:B:814:ALA:H	1.46	0.80
1:B:555:LYS:HG3	1:B:605:ASP:CA	2.12	0.80
1:B:890:GLY:O	1:B:893:PRO:CG	2.23	0.80
1:A:325:PHE:HE1	1:A:709:TRP:NE1	1.76	0.80
1:A:795:GLU:O	1:A:799:LEU:HG	1.82	0.80
1:B:298:LEU:C	1:B:298:LEU:HD23	2.06	0.80
1:B:498:TYR:HE1	1:B:529:ILE:CG2	1.94	0.80
1:B:502:VAL:HG22	1:B:510:PHE:CZ	2.17	0.80
1:B:612:PRO:C	1:B:614:HIS:H	1.90	0.80
1:B:663:ASP:CB	1:B:664:ILE:CD1	2.59	0.80
1:A:17:GLU:CG	1:A:189:LYS:HE2	2.12	0.80
1:A:206:GLU:HB3	1:A:252:LYS:HA	1.65	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ILE:CD1	1:A:756:TRP:CH2	2.51	0.80
1:A:862:ILE:CD1	1:A:863:PHE:CD1	2.65	0.80
1:A:892:SER:N	1:A:893:PRO:CD	2.44	0.80
1:B:21:PHE:N	1:B:21:PHE:CD1	2.48	0.80
1:B:93:VAL:HG22	1:B:197:VAL:CB	2.12	0.80
1:B:286:PHE:CE2	1:B:290:LEU:HD21	2.17	0.80
1:B:430:LEU:HG	1:B:439:VAL:CG1	2.12	0.80
1:A:16:ILE:HD11	1:A:667:LEU:HD11	0.81	0.79
1:A:17:GLU:HG2	1:A:189:LYS:HE2	1.63	0.79
1:A:74:VAL:CA	1:A:76:PRO:HD3	2.12	0.79
1:A:84:THR:CB	1:A:215:ARG:HD3	2.13	0.79
1:A:176:LEU:CD2	1:A:191:ILE:CD1	2.61	0.79
1:A:285:HIS:CD2	1:A:286:PHE:N	2.50	0.79
1:A:344:THR:O	1:A:348:VAL:HG22	1.81	0.79
1:A:912:VAL:HG11	1:A:915:GLN:OE1	1.82	0.79
1:B:27:GLU:OE2	1:B:97:ARG:NH1	2.15	0.79
1:B:79:MET:SD	1:B:243:ASP:OD1	2.40	0.79
1:B:882:VAL:HG12	1:B:884:PHE:CD1	2.17	0.79
1:A:27:GLU:OE2	1:A:97:ARG:NH1	2.15	0.79
1:A:484:VAL:HG23	1:A:526:ILE:N	1.95	0.79
1:B:84:THR:CB	1:B:215:ARG:HD3	2.13	0.79
1:B:756:TRP:CZ3	1:B:757:GLY:HA3	2.17	0.79
1:A:298:LEU:HD23	1:A:298:LEU:C	2.06	0.79
1:A:510:PHE:CA	1:A:532:CYS:O	2.29	0.79
1:A:862:ILE:HD11	1:B:309:TRP:CH2	2.17	0.79
1:B:231:THR:CG2	1:B:232:GLY:H	1.95	0.79
1:B:247:ALA:HB3	1:B:269:VAL:HG21	1.65	0.79
1:B:533:MET:H	1:B:533:MET:HE2	1.47	0.79
1:B:912:VAL:HG11	1:B:915:GLN:OE1	1.82	0.79
1:A:543:THR:CB	1:A:672:GLY:HA2	2.12	0.79
1:A:615:LYS:C	1:A:618:VAL:HG22	2.07	0.79
1:A:628:LEU:O	1:A:629:VAL:HG23	1.81	0.79
1:A:727:ILE:O	1:A:731:VAL:HG23	1.82	0.79
1:B:17:GLU:CG	1:B:189:LYS:HE2	2.12	0.79
1:B:53:GLU:O	1:B:54:SER:CB	2.31	0.79
1:B:246:PHE:HB2	1:B:268:PHE:CB	2.11	0.79
1:B:543:THR:CB	1:B:672:GLY:HA2	2.12	0.79
1:A:217:VAL:O	1:A:218:THR:HB	1.81	0.79
1:A:518:LYS:CG	1:A:523:SER:HB3	2.13	0.79
1:A:612:PRO:C	1:A:614:HIS:H	1.90	0.79
1:A:803:LEU:CD2	1:A:807:TRP:HZ2	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:803:LEU:HD21	1:A:860:ILE:HG22	1.62	0.79
1:B:17:GLU:HG2	1:B:189:LYS:HE2	1.63	0.79
1:B:67:ALA:HB1	1:B:268:PHE:HA	1.61	0.79
1:B:312:SER:HB3	1:B:322:ILE:HG22	1.64	0.79
1:B:803:LEU:CD2	1:B:807:TRP:HZ2	1.96	0.79
1:A:93:VAL:HG22	1:A:197:VAL:CB	2.12	0.79
1:A:724:PHE:HZ	1:A:837:LEU:HB2	1.47	0.79
1:A:750:TRP:NE1	1:A:753:PRO:CG	2.41	0.79
1:A:756:TRP:CZ3	1:A:757:GLY:HA3	2.17	0.79
1:A:871:MET:O	1:A:875:TYR:CD1	2.36	0.79
1:A:871:MET:CB	1:A:875:TYR:HE1	1.88	0.79
1:B:71:GLY:CA	1:B:230:LEU:CD2	2.60	0.79
1:B:502:VAL:CG2	1:B:510:PHE:CZ	2.66	0.79
1:B:513:LEU:CD1	1:B:515:VAL:HG13	2.13	0.79
1:B:518:LYS:CG	1:B:523:SER:HB3	2.13	0.79
1:B:594:GLY:O	1:B:597:VAL:HG22	1.83	0.79
1:B:663:ASP:HB2	1:B:664:ILE:CD1	2.12	0.79
1:B:912:VAL:HG12	1:B:915:GLN:HB3	1.62	0.79
1:A:88:LEU:HD12	1:A:90:SER:H	1.48	0.79
1:A:216:ILE:CD1	1:A:243:ASP:CG	2.56	0.79
1:A:333:GLY:O	1:A:335:PRO:HD3	1.83	0.79
1:A:428:LYS:HG2	1:A:432:TYR:CE2	2.18	0.79
1:B:67:ALA:H	1:B:69:PRO:HD2	1.47	0.79
1:B:325:PHE:HE1	1:B:709:TRP:HE1	1.31	0.79
1:B:333:GLY:O	1:B:335:PRO:HD3	1.83	0.79
1:B:715:ARG:HG2	1:B:790:PHE:CD2	2.13	0.79
1:A:71:GLY:CA	1:A:230:LEU:CD2	2.60	0.79
1:A:502:VAL:HG22	1:A:510:PHE:CZ	2.17	0.79
1:A:555:LYS:HG3	1:A:605:ASP:CA	2.12	0.79
1:A:891:LYS:C	1:A:893:PRO:CD	2.55	0.79
1:B:93:VAL:CG2	1:B:197:VAL:CB	2.61	0.79
1:B:862:ILE:CD1	1:B:863:PHE:CD1	2.65	0.79
1:A:105:MET:HG2	1:A:274:ALA:HA	1.65	0.79
1:A:286:PHE:CE2	1:A:290:LEU:HD21	2.17	0.79
1:A:286:PHE:CZ	1:A:290:LEU:HD21	2.18	0.79
1:A:513:LEU:CD1	1:A:515:VAL:HG13	2.13	0.79
1:B:93:VAL:HG22	1:B:197:VAL:CG1	2.13	0.79
1:B:176:LEU:CD2	1:B:191:ILE:CD1	2.61	0.79
1:B:689:TYR:CE2	1:B:815:ASN:CG	2.60	0.79
1:B:707:GLY:O	1:B:710:ILE:HB	1.80	0.79
1:B:892:SER:N	1:B:893:PRO:CD	2.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:VAL:HG23	1:A:208:THR:CG2	2.13	0.79
1:A:275:LEU:CD1	1:A:275:LEU:N	2.43	0.79
1:A:390:LEU:CD2	1:A:532:CYS:HB3	2.13	0.79
1:A:420:ASP:HB3	1:A:422:ILE:HG22	1.65	0.79
1:A:430:LEU:HG	1:A:439:VAL:CG1	2.12	0.79
1:A:615:LYS:O	1:A:618:VAL:CG2	2.31	0.79
1:A:683:GLN:HG2	1:A:743:TYR:CE1	2.14	0.79
1:B:16:ILE:HD11	1:B:667:LEU:HD11	0.81	0.79
1:B:100:TYR:CG	1:B:264:GLY:HA2	2.18	0.79
1:B:607:PHE:CD1	1:B:610:VAL:HG21	2.16	0.79
1:B:675:ILE:C	1:B:679:LYS:HE3	2.07	0.79
1:B:694:TYR:HB3	1:B:812:THR:HG21	1.64	0.79
1:B:797:LEU:O	1:B:801:ILE:HG12	1.82	0.79
1:B:891:LYS:C	1:B:893:PRO:CD	2.55	0.79
1:A:53:GLU:O	1:A:54:SER:CB	2.31	0.78
1:A:79:MET:SD	1:A:243:ASP:OD1	2.40	0.78
1:A:192:GLU:C	1:A:196:VAL:HG13	2.08	0.78
1:A:434:PRO:C	1:A:435:ARG:CG	2.53	0.78
1:A:675:ILE:C	1:A:679:LYS:HE3	2.07	0.78
1:A:694:TYR:HD1	1:A:808:LEU:C	1.91	0.78
1:A:813:ARG:HG2	1:A:814:ALA:H	1.46	0.78
1:B:78:ASP:CA	1:B:81:GLN:HG2	2.00	0.78
1:B:325:PHE:CD1	1:B:710:ILE:HD11	2.18	0.78
1:B:428:LYS:HG2	1:B:432:TYR:CE2	2.18	0.78
1:B:483:THR:C	1:B:524:TRP:CB	2.57	0.78
1:A:67:ALA:H	1:A:69:PRO:HD2	1.47	0.78
1:A:92:GLU:HB3	1:A:96:ARG:CZ	2.13	0.78
1:A:312:SER:HB3	1:A:322:ILE:HG22	1.64	0.78
1:B:92:GLU:HB3	1:B:96:ARG:CZ	2.13	0.78
1:B:399:VAL:HB	1:B:404:LEU:HD22	0.79	0.78
1:B:778:TYR:CE1	1:B:782:GLU:OE2	2.36	0.78
1:A:247:ALA:HB3	1:A:269:VAL:HG21	1.65	0.78
1:A:303:PHE:HE2	1:A:307:ILE:HD11	1.48	0.78
1:A:594:GLY:O	1:A:597:VAL:HG22	1.83	0.78
1:B:79:MET:N	1:B:80:LEU:HD23	1.99	0.78
1:B:82:THR:O	1:B:83:ASP:HB2	1.81	0.78
1:B:206:GLU:HB3	1:B:252:LYS:HA	1.65	0.78
1:B:484:VAL:N	1:B:524:TRP:CB	2.46	0.78
1:B:724:PHE:HZ	1:B:837:LEU:HB2	1.47	0.78
1:B:727:ILE:O	1:B:731:VAL:HG23	1.82	0.78
1:A:176:LEU:HD23	1:A:191:ILE:HD11	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:ALA:O	1:A:527:LEU:HD11	1.83	0.78
1:A:533:MET:H	1:A:533:MET:HE2	1.47	0.78
1:A:628:LEU:C	1:A:629:VAL:HG23	2.08	0.78
1:B:192:GLU:C	1:B:196:VAL:HG13	2.08	0.78
1:B:524:TRP:N	1:B:524:TRP:HE3	1.81	0.78
1:B:615:LYS:O	1:B:618:VAL:CG2	2.31	0.78
1:B:648:GLY:C	1:B:662:ALA:CB	2.56	0.78
1:B:694:TYR:HD1	1:B:808:LEU:C	1.91	0.78
1:A:82:THR:CG2	1:A:244:GLN:HE21	1.96	0.78
1:A:484:VAL:N	1:A:524:TRP:HB2	1.99	0.78
1:A:518:LYS:HG2	1:A:521:GLU:N	1.98	0.78
1:B:399:VAL:HG11	1:B:401:PRO:HG2	1.61	0.78
1:B:417:LYS:O	1:B:418:GLY:C	2.27	0.78
1:B:515:VAL:HG13	1:B:530:MET:HE1	1.65	0.78
1:B:591:ASP:CG	1:B:592:MET:CE	2.41	0.78
1:B:615:LYS:C	1:B:618:VAL:HG22	2.07	0.78
1:B:628:LEU:O	1:B:629:VAL:HG23	1.82	0.78
1:B:671:LEU:O	1:B:674:ILE:CG1	2.31	0.78
1:A:93:VAL:CG2	1:A:197:VAL:CB	2.61	0.78
1:A:671:LEU:O	1:A:674:ILE:CG1	2.31	0.78
1:B:178:LEU:HD22	1:B:659:ARG:HH21	1.46	0.78
1:B:332:ILE:HD12	1:B:702:LEU:HD22	1.66	0.78
1:A:196:VAL:HG23	1:A:196:VAL:O	1.82	0.78
1:A:484:VAL:N	1:A:524:TRP:CB	2.46	0.78
1:A:502:VAL:CG2	1:A:510:PHE:CZ	2.66	0.78
1:A:689:TYR:CE2	1:A:815:ASN:CG	2.60	0.78
1:B:383:LEU:CD2	1:B:671:LEU:CD2	2.61	0.78
1:B:516:ALA:O	1:B:527:LEU:HD11	1.83	0.78
1:B:582:GLU:HB3	1:B:583:ARG:HD3	1.66	0.78
1:B:628:LEU:C	1:B:629:VAL:HG23	2.09	0.78
1:B:871:MET:O	1:B:875:TYR:CD1	2.36	0.78
1:A:399:VAL:HB	1:A:404:LEU:HD22	0.79	0.78
1:A:428:LYS:HE2	1:A:432:TYR:CZ	2.18	0.78
1:A:515:VAL:HG13	1:A:530:MET:HE1	1.65	0.78
1:A:524:TRP:N	1:A:524:TRP:HE3	1.81	0.78
1:A:797:LEU:O	1:A:801:ILE:HG12	1.83	0.78
1:B:88:LEU:HD12	1:B:90:SER:H	1.48	0.78
1:B:143:ASP:O	1:B:146:VAL:CG2	2.32	0.78
1:B:303:PHE:HE2	1:B:307:ILE:HD11	1.48	0.78
1:B:356:LYS:O	1:B:358:ALA:N	2.17	0.78
1:B:420:ASP:HB3	1:B:422:ILE:HG22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:VAL:N	1:B:524:TRP:HB2	1.99	0.78
1:A:582:GLU:HB3	1:A:583:ARG:HD3	1.66	0.78
1:A:640:PRO:O	1:A:643:LYS:HG2	1.84	0.78
1:B:112:HIS:HB2	1:B:116:PHE:HD1	1.47	0.78
1:B:191:ILE:CG2	1:B:196:VAL:HG12	2.13	0.78
1:B:204:VAL:HG23	1:B:208:THR:CG2	2.13	0.78
1:B:275:LEU:N	1:B:275:LEU:CD1	2.43	0.78
1:B:428:LYS:HE2	1:B:432:TYR:CZ	2.18	0.78
1:B:543:THR:O	1:B:675:ILE:HG21	1.84	0.78
1:B:768:VAL:HG21	1:B:808:LEU:CD1	2.12	0.78
1:A:191:ILE:CG2	1:A:196:VAL:HG12	2.13	0.78
1:A:215:ARG:C	1:A:258:VAL:HG23	2.10	0.78
1:A:329:ILE:CG1	1:A:706:LEU:HD12	2.00	0.78
1:A:679:LYS:C	1:A:743:TYR:CE1	2.62	0.78
1:A:778:TYR:CE1	1:A:782:GLU:OE2	2.36	0.78
1:B:93:VAL:HG13	1:B:197:VAL:CG1	2.09	0.78
1:B:217:VAL:O	1:B:218:THR:HB	1.81	0.78
1:A:356:LYS:O	1:A:358:ALA:N	2.17	0.77
1:A:510:PHE:C	1:A:564:ILE:CD1	2.53	0.77
1:A:796:VAL:HG11	1:A:800:GLN:NE2	1.93	0.77
1:B:380:THR:HG21	1:B:388:LEU:CB	2.13	0.77
1:B:390:LEU:CD2	1:B:532:CYS:HB3	2.13	0.77
1:B:523:SER:C	1:B:524:TRP:HE3	1.92	0.77
1:A:100:TYR:CG	1:A:264:GLY:HA2	2.18	0.77
1:A:502:VAL:CG2	1:A:510:PHE:HZ	1.96	0.77
1:A:595:SER:C	1:A:597:VAL:H	1.89	0.77
1:A:671:LEU:HA	1:A:674:ILE:CD1	2.14	0.77
1:A:810:PHE:HE2	1:A:823:PRO:CG	1.97	0.77
1:B:105:MET:HG2	1:B:274:ALA:HA	1.65	0.77
1:B:286:PHE:CZ	1:B:290:LEU:HD21	2.18	0.77
1:A:79:MET:N	1:A:80:LEU:HD23	1.99	0.77
1:A:231:THR:CG2	1:A:232:GLY:H	1.95	0.77
1:B:111:ASN:O	1:B:112:HIS:CB	2.33	0.77
1:B:215:ARG:C	1:B:258:VAL:HG23	2.09	0.77
1:B:340:ALA:O	1:B:343:THR:HG22	1.84	0.77
1:B:406:LEU:CD2	1:B:470:ILE:HG12	2.14	0.77
1:B:592:MET:O	1:B:594:GLY:N	2.13	0.77
1:B:799:LEU:HD11	1:B:842:THR:HG1	1.48	0.77
1:A:191:ILE:CD1	1:A:195:GLU:CD	2.56	0.77
1:A:325:PHE:CD1	1:A:710:ILE:HD11	2.18	0.77
1:A:543:THR:O	1:A:675:ILE:HG21	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:799:LEU:HD11	1:A:842:THR:HG1	1.48	0.77
1:B:679:LYS:C	1:B:743:TYR:CE1	2.62	0.77
1:A:93:VAL:HG22	1:A:197:VAL:CG1	2.13	0.77
1:A:143:ASP:O	1:A:146:VAL:CG2	2.32	0.77
1:A:458:VAL:O	1:A:459:VAL:HG23	1.85	0.77
1:B:88:LEU:HD13	1:B:93:VAL:HG21	1.66	0.77
1:B:168:ILE:HG21	1:B:347:ALA:HB1	1.67	0.77
1:B:216:ILE:CG1	1:B:243:ASP:HB3	2.13	0.77
1:B:689:TYR:HD1	1:B:761:LEU:HD13	1.50	0.77
1:B:871:MET:CB	1:B:875:TYR:HE1	1.88	0.77
1:A:78:ASP:CA	1:A:81:GLN:HG2	2.00	0.77
1:A:216:ILE:CG1	1:A:243:ASP:HB3	2.13	0.77
1:A:340:ALA:O	1:A:343:THR:HG22	1.84	0.77
1:A:488:HIS:CD2	1:A:489:PRO:HD2	2.20	0.77
1:A:750:TRP:O	1:A:754:LYS:HB3	1.85	0.77
1:A:808:LEU:O	1:A:811:ILE:CG1	2.32	0.77
1:B:239:LYS:CG	1:B:243:ASP:OD1	2.33	0.77
1:B:279:ALA:O	1:B:280:SER:HB2	1.85	0.77
1:B:595:SER:C	1:B:597:VAL:H	1.89	0.77
1:B:640:PRO:O	1:B:643:LYS:HG2	1.84	0.77
1:B:810:PHE:HE2	1:B:823:PRO:CG	1.97	0.77
1:A:15:ASN:O	1:A:17:GLU:N	2.17	0.77
1:A:153:LEU:HD13	1:A:727:ILE:HG21	1.67	0.77
1:A:380:THR:HG21	1:A:388:LEU:CB	2.13	0.77
1:A:406:LEU:CD2	1:A:470:ILE:HG12	2.14	0.77
1:A:523:SER:C	1:A:524:TRP:HE3	1.92	0.77
1:B:413:SER:HB3	1:B:474:LYS:HD3	1.65	0.77
1:B:485:GLU:HA	1:B:490:ILE:CG1	2.14	0.77
1:A:88:LEU:CD1	1:A:90:SER:H	1.98	0.77
1:A:298:LEU:C	1:A:298:LEU:CD2	2.57	0.77
1:A:332:ILE:HD12	1:A:702:LEU:HD22	1.66	0.77
1:A:513:LEU:C	1:A:513:LEU:CD1	2.58	0.77
1:B:125:GLN:CB	1:B:151:LEU:CD1	2.59	0.77
1:B:267:THR:CG2	1:B:270:GLY:N	2.47	0.77
1:B:309:TRP:HB3	1:B:326:THR:HG21	1.66	0.77
1:B:458:VAL:O	1:B:459:VAL:HG23	1.85	0.77
1:B:502:VAL:CG2	1:B:510:PHE:HZ	1.96	0.77
1:B:771:TRP:NE1	1:B:775:THR:CG2	2.41	0.77
1:B:885:ASP:O	1:B:889:HIS:CE1	2.37	0.77
1:A:298:LEU:O	1:A:302:ILE:HG23	1.85	0.77
1:A:309:TRP:CB	1:A:326:THR:HG21	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:TYR:CE2	1:A:529:ILE:CD1	2.66	0.77
1:A:483:THR:C	1:A:524:TRP:CB	2.57	0.77
1:A:485:GLU:HA	1:A:490:ILE:CG1	2.14	0.77
1:B:216:ILE:CD1	1:B:243:ASP:CG	2.56	0.77
1:B:671:LEU:HA	1:B:674:ILE:CD1	2.14	0.77
1:A:111:ASN:O	1:A:112:HIS:CB	2.33	0.77
1:A:267:THR:CG2	1:A:270:GLY:N	2.47	0.77
1:A:885:ASP:O	1:A:889:HIS:CE1	2.37	0.77
1:B:298:LEU:C	1:B:298:LEU:CD2	2.57	0.77
1:B:736:ILE:HD11	1:B:827:LEU:CD2	1.96	0.77
1:A:239:LYS:CG	1:A:243:ASP:OD1	2.33	0.76
1:A:714:ASN:CB	1:A:790:PHE:HE1	1.94	0.76
1:B:6:ALA:O	1:B:10:PRO:HG2	1.83	0.76
1:B:394:TYR:CE2	1:B:529:ILE:CD1	2.66	0.76
1:B:697:ALA:N	1:B:765:VAL:HG23	2.00	0.76
1:A:70:GLY:O	1:A:230:LEU:HD23	1.84	0.76
1:A:168:ILE:HG21	1:A:347:ALA:HB1	1.67	0.76
1:A:317:ASN:ND2	1:A:321:GLN:HE22	1.82	0.76
1:A:683:GLN:HB3	1:A:687:ARG:NE	2.01	0.76
1:A:782:GLU:CG	1:A:783:ASN:H	1.91	0.76
1:B:485:GLU:O	1:B:490:ILE:HG13	1.86	0.76
1:B:488:HIS:CD2	1:B:489:PRO:HD2	2.20	0.76
1:B:617:ASN:O	1:B:621:ILE:HG23	1.86	0.76
1:A:279:ALA:O	1:A:280:SER:HB2	1.85	0.76
1:A:413:SER:HB3	1:A:474:LYS:HD3	1.66	0.76
1:A:456:LYS:CE	1:A:476:ALA:HB3	2.11	0.76
1:B:70:GLY:CA	1:B:75:VAL:HG21	2.15	0.76
1:B:510:PHE:C	1:B:564:ILE:CD1	2.53	0.76
1:B:750:TRP:O	1:B:754:LYS:HB3	1.85	0.76
1:A:9:ALA:HB3	1:A:10:PRO:CD	2.15	0.76
1:A:80:LEU:H	1:A:80:LEU:HD23	0.64	0.76
1:A:309:TRP:HB3	1:A:326:THR:HG21	1.66	0.76
1:A:407:THR:HB	1:A:527:LEU:HD21	1.65	0.76
1:A:704:ILE:O	1:A:708:LEU:HD12	1.85	0.76
1:A:740:ASN:O	1:A:743:TYR:CG	2.39	0.76
1:B:15:ASN:O	1:B:17:GLU:N	2.17	0.76
1:B:93:VAL:CG2	1:B:197:VAL:HG12	2.15	0.76
1:B:210:ILE:HB	1:B:247:ALA:CA	2.13	0.76
1:B:267:THR:HB	1:B:270:GLY:HA3	1.67	0.76
1:B:415:LYS:NZ	1:B:511:ARG:HB3	2.01	0.76
1:B:543:THR:CG2	1:B:672:GLY:HA2	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:768:VAL:CG2	1:B:808:LEU:HD13	2.15	0.76
1:A:74:VAL:HB	1:A:76:PRO:HG3	1.66	0.76
1:A:147:ILE:HD12	1:A:148:CYS:N	1.99	0.76
1:A:689:TYR:CD1	1:A:761:LEU:HD13	2.21	0.76
1:B:147:ILE:HD12	1:B:148:CYS:N	1.99	0.76
1:B:883:GLY:O	1:B:887:LEU:HG	1.86	0.76
1:A:6:ALA:O	1:A:10:PRO:HG2	1.83	0.76
1:A:125:GLN:C	1:A:151:LEU:HD13	2.11	0.76
1:A:415:LYS:NZ	1:A:511:ARG:HB3	2.01	0.76
1:A:697:ALA:N	1:A:765:VAL:HG23	2.00	0.76
1:B:153:LEU:HD13	1:B:727:ILE:HG21	1.67	0.76
1:B:223:LEU:HD13	1:B:223:LEU:C	2.10	0.76
1:B:298:LEU:O	1:B:302:ILE:HG23	1.85	0.76
1:B:682:ARG:HH12	1:B:744:SER:CB	1.95	0.76
1:B:689:TYR:CD1	1:B:761:LEU:HD13	2.21	0.76
1:B:714:ASN:CB	1:B:790:PHE:HE1	1.94	0.76
1:B:871:MET:O	1:B:875:TYR:HD1	1.69	0.76
1:A:210:ILE:HB	1:A:247:ALA:CA	2.13	0.76
1:A:315:ARG:HB3	1:A:710:ILE:O	1.85	0.76
1:A:617:ASN:O	1:A:621:ILE:HG23	1.86	0.76
1:A:648:GLY:C	1:A:662:ALA:CB	2.56	0.76
1:B:217:VAL:HG12	1:B:257:PHE:O	1.85	0.76
1:A:45:ILE:HG13	1:A:46:ASP:N	2.00	0.76
1:A:223:LEU:C	1:A:223:LEU:HD13	2.10	0.76
1:A:543:THR:CG2	1:A:672:GLY:HA2	2.15	0.76
1:A:583:ARG:HB2	1:A:603:ALA:CA	2.16	0.76
1:A:883:GLY:O	1:A:887:LEU:HG	1.86	0.76
1:B:173:LYS:O	1:B:174:LYS:CB	2.32	0.76
1:B:400:ASP:N	1:B:404:LEU:HD23	2.00	0.76
1:B:428:LYS:CE	1:B:432:TYR:OH	2.34	0.76
1:A:309:TRP:CE3	1:A:310:VAL:N	2.54	0.76
1:B:289:VAL:HG11	1:B:756:TRP:HA	1.68	0.76
1:B:400:ASP:N	1:B:401:PRO:CD	2.44	0.76
1:A:46:ASP:OD1	1:A:49:ILE:HD11	1.85	0.76
1:A:112:HIS:HB2	1:A:116:PHE:HD1	1.47	0.76
1:A:286:PHE:HZ	1:A:688:MET:CE	1.99	0.76
1:A:417:LYS:O	1:A:418:GLY:C	2.27	0.76
1:B:88:LEU:CD1	1:B:90:SER:H	1.98	0.76
1:B:125:GLN:C	1:B:151:LEU:HD13	2.11	0.76
1:B:683:GLN:HB3	1:B:687:ARG:NE	2.01	0.76
1:B:895:GLY:H	1:B:898:LYS:HG3	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:430:LEU:O	1:A:433:TYR:HB2	1.86	0.75
1:A:485:GLU:O	1:A:490:ILE:HG13	1.86	0.75
1:B:6:ALA:O	1:B:10:PRO:CD	2.34	0.75
1:B:74:VAL:HB	1:B:76:PRO:HG3	1.66	0.75
1:B:176:LEU:HD23	1:B:195:GLU:OE1	1.86	0.75
1:B:513:LEU:C	1:B:513:LEU:CD1	2.58	0.75
1:B:740:ASN:O	1:B:743:TYR:CG	2.39	0.75
1:A:400:ASP:N	1:A:404:LEU:HD23	2.00	0.75
1:A:723:VAL:O	1:A:727:ILE:HG23	1.86	0.75
1:B:70:GLY:O	1:B:230:LEU:HD23	1.84	0.75
1:B:782:GLU:CG	1:B:783:ASN:H	1.91	0.75
1:A:79:MET:HE1	1:A:239:LYS:HG2	1.67	0.75
1:A:372:VAL:HG11	1:A:375:LEU:HD11	1.67	0.75
1:A:566:ARG:HH22	1:A:570:ARG:HH11	1.26	0.75
1:A:768:VAL:CG2	1:A:808:LEU:HD13	2.15	0.75
1:B:45:ILE:HG13	1:B:46:ASP:N	2.00	0.75
1:B:79:MET:HE1	1:B:239:LYS:HG2	1.66	0.75
1:B:275:LEU:C	1:B:276:VAL:HG23	2.11	0.75
1:B:309:TRP:CE3	1:B:310:VAL:N	2.54	0.75
1:B:704:ILE:O	1:B:708:LEU:HD12	1.85	0.75
1:A:75:VAL:O	1:A:79:MET:HB2	1.87	0.75
1:A:106:LYS:HZ1	1:A:361:GLN:HE21	0.76	0.75
1:A:871:MET:O	1:A:875:TYR:HD1	1.69	0.75
1:B:9:ALA:HB3	1:B:10:PRO:CD	2.15	0.75
1:B:49:ILE:HD12	1:B:275:LEU:C	2.12	0.75
1:B:246:PHE:CG	1:B:268:PHE:CE2	2.75	0.75
1:B:372:VAL:HG11	1:B:375:LEU:HD11	1.67	0.75
1:B:676:ASP:HA	1:B:679:LYS:HE3	1.67	0.75
1:A:70:GLY:CA	1:A:75:VAL:HG21	2.15	0.75
1:A:689:TYR:HD1	1:A:761:LEU:HD13	1.50	0.75
1:B:46:ASP:OD1	1:B:49:ILE:HD11	1.85	0.75
1:B:50:GLU:O	1:B:55:HIS:HE1	1.70	0.75
1:B:390:LEU:CD2	1:B:531:PRO:C	2.53	0.75
1:B:434:PRO:C	1:B:435:ARG:CG	2.53	0.75
1:A:24:LYS:HG3	1:A:171:GLU:HA	1.68	0.75
1:A:188:LEU:CD2	1:A:203:GLN:OE1	2.35	0.75
1:A:289:VAL:HG11	1:A:756:TRP:HA	1.68	0.75
1:A:400:ASP:N	1:A:401:PRO:CD	2.44	0.75
1:A:411:ALA:O	1:A:515:VAL:CB	2.35	0.75
1:A:536:PRO:CB	1:A:572:LEU:HD13	2.15	0.75
1:A:671:LEU:HA	1:A:674:ILE:HD11	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:161:GLN:HE22	1:B:337:GLY:CA	1.99	0.75
1:B:188:LEU:CD2	1:B:203:GLN:OE1	2.35	0.75
1:B:309:TRP:CB	1:B:326:THR:HG21	2.14	0.75
1:B:317:ASN:ND2	1:B:321:GLN:HE22	1.82	0.75
1:B:430:LEU:O	1:B:433:TYR:HB2	1.86	0.75
1:B:723:VAL:O	1:B:727:ILE:HG23	1.86	0.75
1:A:88:LEU:HD13	1:A:93:VAL:HG21	1.66	0.75
1:A:161:GLN:HE22	1:A:337:GLY:CA	1.99	0.75
1:A:6:ALA:O	1:A:10:PRO:CD	2.34	0.75
1:A:31:TYR:C	1:A:33:PRO:CD	2.60	0.75
1:A:138:LEU:HG	1:A:140:ASP:H	1.52	0.75
1:A:173:LYS:O	1:A:174:LYS:CB	2.32	0.75
1:A:456:LYS:NZ	1:A:476:ALA:HB2	2.01	0.75
1:B:437:LYS:N	1:B:437:LYS:CD	2.50	0.75
1:A:275:LEU:C	1:A:276:VAL:HG23	2.11	0.75
1:B:74:VAL:O	1:B:75:VAL:HB	1.85	0.75
1:B:557:LEU:HA	1:B:607:PHE:CD2	2.22	0.75
1:B:590:GLY:O	1:B:611:PHE:CE1	2.40	0.75
1:A:217:VAL:HG12	1:A:257:PHE:O	1.85	0.74
1:A:309:TRP:HE1	1:A:319:ILE:CG1	2.00	0.74
1:A:379:LYS:CE	1:A:534:ASP:OD2	2.25	0.74
1:A:895:GLY:H	1:A:898:LYS:HG3	1.51	0.74
1:B:45:ILE:HG13	1:B:46:ASP:H	1.52	0.74
1:B:75:VAL:O	1:B:79:MET:HB2	1.87	0.74
1:B:100:TYR:OH	1:B:103:ASN:CB	2.35	0.74
1:B:191:ILE:CD1	1:B:195:GLU:CD	2.56	0.74
1:B:583:ARG:HB2	1:B:603:ALA:CA	2.16	0.74
1:B:750:TRP:CD1	1:B:753:PRO:HG2	2.22	0.74
1:A:49:ILE:HD12	1:A:275:LEU:C	2.12	0.74
1:A:246:PHE:CD1	1:A:268:PHE:CD2	2.75	0.74
1:A:285:HIS:CE1	1:A:367:GLU:OE1	2.40	0.74
1:A:437:LYS:N	1:A:437:LYS:CD	2.50	0.74
1:A:596:GLU:HB2	1:A:910:GLN:HE22	1.52	0.74
1:A:687:ARG:NH2	1:A:739:ASP:HA	2.02	0.74
1:A:894:LYS:C	1:A:896:ASN:H	1.95	0.74
1:B:411:ALA:O	1:B:515:VAL:CB	2.35	0.74
1:B:442:LYS:O	1:B:443:TYR:CG	2.40	0.74
1:A:16:ILE:C	1:A:17:GLU:HG3	2.11	0.74
1:A:100:TYR:OH	1:A:103:ASN:CB	2.35	0.74
1:A:146:VAL:HG23	1:A:719:ILE:HG13	1.69	0.74
1:A:428:LYS:CE	1:A:432:TYR:OH	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:LEU:HA	1:A:607:PHE:CD2	2.22	0.74
1:A:771:TRP:NE1	1:A:775:THR:CG2	2.41	0.74
1:B:111:ASN:O	1:B:112:HIS:HB3	1.86	0.74
1:B:443:TYR:HD1	1:B:445:VAL:CG2	1.96	0.74
1:B:894:LYS:C	1:B:896:ASN:H	1.95	0.74
1:A:1:MET:N	1:A:441:SER:HB2	2.03	0.74
1:A:498:TYR:CE1	1:A:529:ILE:CG2	2.71	0.74
1:A:581:ALA:CB	1:A:586:LEU:HD23	2.17	0.74
1:A:731:VAL:HG12	1:A:732:ALA:N	2.03	0.74
1:B:88:LEU:HD12	1:B:90:SER:N	2.03	0.74
1:B:309:TRP:HE1	1:B:319:ILE:CG1	2.00	0.74
1:B:438:SER:O	1:B:439:VAL:C	2.31	0.74
1:B:518:LYS:HG2	1:B:521:GLU:N	1.98	0.74
1:B:671:LEU:HA	1:B:674:ILE:HD11	1.69	0.74
1:A:31:TYR:O	1:A:33:PRO:HD2	1.87	0.74
1:A:176:LEU:HD23	1:A:195:GLU:OE1	1.86	0.74
1:A:750:TRP:CD1	1:A:753:PRO:HG2	2.22	0.74
1:B:16:ILE:C	1:B:17:GLU:HG3	2.11	0.74
1:B:315:ARG:HB3	1:B:710:ILE:O	1.85	0.74
1:B:581:ALA:CB	1:B:586:LEU:HD23	2.17	0.74
1:A:239:LYS:CB	1:A:243:ASP:OD1	2.36	0.74
1:A:438:SER:O	1:A:439:VAL:C	2.31	0.74
1:A:557:LEU:CG	1:A:607:PHE:HE2	1.96	0.74
1:B:808:LEU:O	1:B:811:ILE:CG1	2.32	0.74
1:A:267:THR:HB	1:A:270:GLY:HA3	1.67	0.74
1:A:384:THR:HG23	1:A:386:ASN:H	1.53	0.74
1:A:442:LYS:O	1:A:443:TYR:CG	2.40	0.74
1:B:239:LYS:CB	1:B:243:ASP:OD1	2.36	0.74
1:B:289:VAL:HG11	1:B:756:TRP:CB	2.09	0.74
1:A:125:GLN:CB	1:A:151:LEU:CD1	2.59	0.74
1:A:481:LEU:CD2	1:A:498:TYR:CD2	2.70	0.74
1:A:694:TYR:CD1	1:A:808:LEU:C	2.65	0.74
1:A:736:ILE:HD11	1:A:827:LEU:CD2	1.96	0.74
1:A:855:VAL:O	1:B:319:ILE:HD13	1.87	0.74
1:B:24:LYS:HG3	1:B:171:GLU:HA	1.69	0.74
1:B:534:ASP:O	1:B:534:ASP:OD1	2.06	0.74
1:B:803:LEU:HG	1:B:807:TRP:CZ2	2.23	0.74
1:A:246:PHE:HB2	1:A:268:PHE:HB3	1.68	0.74
1:A:246:PHE:CG	1:A:268:PHE:CE2	2.75	0.74
1:A:357:LYS:C	1:A:667:LEU:HB3	2.13	0.74
1:A:390:LEU:CD2	1:A:531:PRO:C	2.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:THR:HG23	1:B:386:ASN:H	1.53	0.74
1:B:407:THR:HB	1:B:527:LEU:HD21	1.66	0.74
1:A:50:GLU:O	1:A:55:HIS:HE1	1.70	0.74
1:A:534:ASP:OD1	1:A:534:ASP:O	2.06	0.74
1:A:590:GLY:O	1:A:611:PHE:CE1	2.40	0.74
1:A:694:TYR:HB2	1:A:812:THR:HG23	1.59	0.74
1:A:862:ILE:CD1	1:A:863:PHE:CE1	2.71	0.74
1:A:885:ASP:O	1:A:889:HIS:ND1	2.21	0.74
1:B:96:ARG:HG2	1:B:96:ARG:NH1	2.03	0.74
1:B:429:SER:HA	1:B:432:TYR:CD2	2.23	0.74
1:B:601:VAL:CG1	1:B:602:GLU:N	2.42	0.74
1:A:88:LEU:HD12	1:A:90:SER:N	2.03	0.73
1:A:231:THR:HG22	1:A:232:GLY:N	2.03	0.73
1:B:246:PHE:CD1	1:B:268:PHE:CD2	2.75	0.73
1:B:498:TYR:CE1	1:B:529:ILE:CG2	2.71	0.73
1:B:607:PHE:HD1	1:B:610:VAL:HG23	1.52	0.73
1:A:468:GLU:O	1:A:469:ARG:HG3	1.87	0.73
1:A:516:ALA:CA	1:A:525:GLU:O	2.36	0.73
1:A:640:PRO:HA	1:A:643:LYS:HE2	1.68	0.73
1:A:803:LEU:HG	1:A:807:TRP:CZ2	2.23	0.73
1:A:803:LEU:HA	1:A:806:ASN:OD1	1.88	0.73
1:B:1:MET:N	1:B:441:SER:HB2	2.03	0.73
1:B:95:GLN:HA	1:B:98:ARG:HD2	1.70	0.73
1:B:161:GLN:NE2	1:B:337:GLY:CA	2.51	0.73
1:B:468:GLU:O	1:B:469:ARG:HG3	1.87	0.73
1:B:628:LEU:O	1:B:629:VAL:HG22	1.85	0.73
1:B:682:ARG:O	1:B:686:HIS:ND1	2.21	0.73
1:B:695:ARG:NH2	1:B:730:ASP:OD2	2.20	0.73
1:B:756:TRP:O	1:B:757:GLY:C	2.31	0.73
1:A:74:VAL:O	1:A:75:VAL:HB	1.85	0.73
1:A:388:LEU:HD23	1:A:416:LYS:CG	2.17	0.73
1:A:453:PRO:CA	1:A:592:MET:HG3	2.11	0.73
1:A:513:LEU:CD1	1:A:530:MET:HE3	2.19	0.73
1:A:517:ARG:CD	1:A:518:LYS:N	2.51	0.73
1:A:560:ASP:HB3	1:A:564:ILE:HG21	1.71	0.73
1:A:614:HIS:O	1:A:618:VAL:HG13	1.89	0.73
1:A:618:VAL:O	1:A:621:ILE:HG12	1.88	0.73
1:A:687:ARG:CZ	1:A:739:ASP:CA	2.66	0.73
1:A:859:ARG:CD	1:B:319:ILE:HD12	2.18	0.73
1:B:71:GLY:HA2	1:B:230:LEU:CG	2.02	0.73
1:B:82:THR:CG2	1:B:244:GLN:HE21	1.96	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:THR:HG22	1:B:232:GLY:N	2.03	0.73
1:B:269:VAL:O	1:B:269:VAL:HG12	1.88	0.73
1:B:308:VAL:HG13	1:B:710:ILE:HG13	1.70	0.73
1:B:536:PRO:CB	1:B:572:LEU:HD13	2.15	0.73
1:B:557:LEU:HD23	1:B:607:PHE:CE2	2.23	0.73
1:B:640:PRO:HA	1:B:643:LYS:HE2	1.68	0.73
1:B:682:ARG:HH11	1:B:744:SER:HB3	1.51	0.73
1:B:803:LEU:HA	1:B:806:ASN:OD1	1.88	0.73
1:A:178:LEU:HG	1:A:179:LYS:N	2.02	0.73
1:A:293:ILE:HD13	1:A:756:TRP:CE3	2.13	0.73
1:A:867:ILE:HD12	1:A:868:PHE:N	2.03	0.73
1:B:285:HIS:CE1	1:B:367:GLU:OE1	2.40	0.73
1:B:687:ARG:NH2	1:B:739:ASP:HA	2.02	0.73
1:B:731:VAL:HG12	1:B:732:ALA:N	2.03	0.73
1:B:862:ILE:CD1	1:B:863:PHE:CE1	2.71	0.73
1:A:28:ALA:O	1:A:170:ASP:OD2	2.07	0.73
1:A:42:ASP:O	1:A:45:ILE:HG13	1.89	0.73
1:A:88:LEU:CD1	1:A:93:VAL:CG2	2.49	0.73
1:A:245:VAL:HG13	1:A:245:VAL:O	1.86	0.73
1:A:429:SER:HA	1:A:432:TYR:CD2	2.23	0.73
1:A:458:VAL:O	1:A:459:VAL:CG2	2.36	0.73
1:A:561:ALA:O	1:A:564:ILE:HG22	1.88	0.73
1:A:592:MET:C	1:A:594:GLY:H	1.95	0.73
1:A:628:LEU:O	1:A:629:VAL:HG22	1.85	0.73
1:A:898:LYS:O	1:A:902:LEU:HG	1.87	0.73
1:B:28:ALA:O	1:B:170:ASP:OD2	2.07	0.73
1:B:246:PHE:HB2	1:B:268:PHE:HB3	1.68	0.73
1:B:619:VAL:CG1	1:B:641:SER:HB2	2.18	0.73
1:B:821:SER:CA	1:B:823:PRO:HD3	2.19	0.73
1:B:898:LYS:O	1:B:902:LEU:HG	1.87	0.73
1:A:111:ASN:O	1:A:112:HIS:HB3	1.86	0.73
1:A:193:ALA:CA	1:A:196:VAL:CG2	2.58	0.73
1:A:408:ALA:N	1:A:527:LEU:HD13	2.01	0.73
1:B:31:TYR:C	1:B:33:PRO:CD	2.60	0.73
1:B:182:VAL:N	1:B:189:LYS:O	2.18	0.73
1:B:516:ALA:CA	1:B:525:GLU:O	2.36	0.73
1:B:691:TYR:CE2	1:B:692:VAL:HG12	2.23	0.73
1:A:286:PHE:CZ	1:A:688:MET:SD	2.82	0.73
1:A:290:LEU:CD2	1:A:756:TRP:CD1	2.67	0.73
1:A:369:LEU:O	1:A:372:VAL:HG23	1.89	0.73
1:A:891:LYS:N	1:A:893:PRO:HD2	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:LEU:HG	1:B:140:ASP:H	1.52	0.73
1:B:245:VAL:O	1:B:245:VAL:HG13	1.86	0.73
1:B:388:LEU:HD23	1:B:416:LYS:CG	2.17	0.73
1:B:560:ASP:HB3	1:B:564:ILE:HG21	1.71	0.73
1:A:676:ASP:HA	1:A:679:LYS:HE3	1.67	0.73
1:A:821:SER:CA	1:A:823:PRO:HD3	2.19	0.73
1:B:84:THR:HB	1:B:215:ARG:CD	2.19	0.73
1:B:178:LEU:HG	1:B:179:LYS:N	2.02	0.73
1:B:363:LEU:O	1:B:366:ILE:HG12	1.88	0.73
1:B:596:GLU:HB2	1:B:910:GLN:HE22	1.52	0.73
1:B:697:ALA:HB2	1:B:765:VAL:CG2	2.14	0.73
1:A:93:VAL:HG13	1:A:97:ARG:HE	1.53	0.73
1:A:695:ARG:NH2	1:A:730:ASP:OD2	2.20	0.73
1:A:740:ASN:HB2	1:A:743:TYR:HB3	1.70	0.73
1:B:357:LYS:C	1:B:667:LEU:HB3	2.13	0.73
1:B:885:ASP:O	1:B:889:HIS:ND1	2.21	0.73
1:A:682:ARG:O	1:A:686:HIS:ND1	2.21	0.73
1:A:683:GLN:HB3	1:A:687:ARG:HE	1.54	0.73
1:A:691:TYR:CE2	1:A:692:VAL:HG12	2.23	0.73
1:A:756:TRP:O	1:A:757:GLY:C	2.31	0.73
1:B:286:PHE:HZ	1:B:688:MET:CE	1.99	0.73
1:B:471:THR:O	1:B:517:ARG:HA	1.89	0.73
1:B:481:LEU:CD2	1:B:498:TYR:CD2	2.70	0.73
1:A:246:PHE:CZ	1:A:248:SER:CA	2.72	0.72
1:B:1:MET:N	1:B:441:SER:CB	2.52	0.72
1:B:31:TYR:O	1:B:33:PRO:HD2	1.87	0.72
1:B:96:ARG:CG	1:B:96:ARG:NH1	2.45	0.72
1:B:561:ALA:O	1:B:564:ILE:HG22	1.88	0.72
1:B:667:LEU:C	1:B:669:PRO:HD3	2.12	0.72
1:B:697:ALA:N	1:B:765:VAL:CG2	2.51	0.72
1:B:811:ILE:CG2	1:B:867:ILE:HD13	2.19	0.72
1:A:319:ILE:CA	1:A:322:ILE:HG12	2.19	0.72
1:A:363:LEU:O	1:A:366:ILE:HG12	1.88	0.72
1:A:499:LYS:C	1:A:499:LYS:HD3	2.13	0.72
1:B:513:LEU:CD1	1:B:530:MET:HE3	2.19	0.72
1:B:694:TYR:CD1	1:B:808:LEU:C	2.65	0.72
1:B:770:THR:HA	1:B:773:THR:CG2	2.19	0.72
1:A:22:ASP:O	1:A:25:ALA:N	2.23	0.72
1:A:246:PHE:CE1	1:A:269:VAL:CG2	2.72	0.72
1:A:383:LEU:CD2	1:A:671:LEU:CD2	2.61	0.72
1:A:697:ALA:N	1:A:765:VAL:CG2	2.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ASP:O	1:B:45:ILE:HG13	1.89	0.72
1:B:201:ILE:CG2	1:B:257:PHE:CE2	2.73	0.72
1:B:286:PHE:CZ	1:B:688:MET:SD	2.82	0.72
1:B:374:ILE:HA	1:B:553:SER:O	1.89	0.72
1:B:510:PHE:HZ	1:B:512:SER:HB3	0.93	0.72
1:B:592:MET:C	1:B:594:GLY:H	1.95	0.72
1:B:614:HIS:O	1:B:618:VAL:HG13	1.89	0.72
1:B:687:ARG:CZ	1:B:739:ASP:CA	2.66	0.72
1:B:724:PHE:CE1	1:B:837:LEU:HB3	2.24	0.72
1:B:867:ILE:HD12	1:B:868:PHE:N	2.03	0.72
1:A:161:GLN:NE2	1:A:337:GLY:CA	2.51	0.72
1:A:201:ILE:CG2	1:A:257:PHE:CE2	2.73	0.72
1:A:216:ILE:CB	1:A:243:ASP:HB3	2.20	0.72
1:A:563:GLY:O	1:A:567:GLU:HG2	1.90	0.72
1:A:619:VAL:CG1	1:A:641:SER:HB2	2.18	0.72
1:A:770:THR:HA	1:A:773:THR:CG2	2.19	0.72
1:B:319:ILE:CA	1:B:322:ILE:HG12	2.19	0.72
1:B:369:LEU:O	1:B:372:VAL:HG23	1.89	0.72
1:B:505:PHE:CB	1:B:510:PHE:CG	2.72	0.72
1:B:811:ILE:O	1:B:871:MET:HE2	1.88	0.72
1:A:1:MET:N	1:A:441:SER:CB	2.53	0.72
1:A:580:ASN:ND2	1:A:584:LEU:O	2.22	0.72
1:A:607:PHE:HD1	1:A:610:VAL:HG23	1.52	0.72
1:A:690:ALA:O	1:A:693:VAL:HG12	1.88	0.72
1:A:811:ILE:O	1:A:871:MET:HE2	1.88	0.72
1:A:821:SER:O	1:A:823:PRO:HD3	1.89	0.72
1:A:859:ARG:CZ	1:B:310:VAL:HG23	2.19	0.72
1:B:22:ASP:O	1:B:25:ALA:N	2.23	0.72
1:B:74:VAL:CB	1:B:76:PRO:CG	2.63	0.72
1:B:146:VAL:HG23	1:B:719:ILE:HG13	1.69	0.72
1:B:390:LEU:N	1:B:422:ILE:HD12	2.04	0.72
1:B:453:PRO:CA	1:B:592:MET:HG3	2.11	0.72
1:B:458:VAL:O	1:B:459:VAL:CG2	2.36	0.72
1:B:470:ILE:CD1	1:B:517:ARG:CD	2.68	0.72
1:B:520:GLY:C	1:B:521:GLU:HG3	2.14	0.72
1:B:721:LEU:HD23	1:B:841:PHE:CE2	2.25	0.72
1:A:85:ARG:O	1:A:85:ARG:HG2	1.88	0.72
1:A:93:VAL:CG1	1:A:97:ARG:NH2	2.52	0.72
1:A:246:PHE:HB3	1:A:268:PHE:CG	2.24	0.72
1:A:415:LYS:HZ3	1:A:511:ARG:HG3	0.98	0.72
1:A:721:LEU:HD23	1:A:841:PHE:CE2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:859:ARG:HG3	1:B:319:ILE:HD12	1.71	0.72
1:B:28:ALA:HA	1:B:170:ASP:HB3	1.70	0.72
1:B:557:LEU:CG	1:B:607:PHE:HE2	1.96	0.72
1:B:563:GLY:O	1:B:567:GLU:HG2	1.90	0.72
1:A:49:ILE:HG21	1:A:275:LEU:HB3	1.72	0.72
1:A:95:GLN:HA	1:A:98:ARG:HD2	1.70	0.72
1:A:132:ALA:CB	1:A:144:PHE:CB	2.56	0.72
1:A:319:ILE:HA	1:A:322:ILE:HG12	1.70	0.72
1:A:442:LYS:HG2	1:A:443:TYR:CA	2.19	0.72
1:A:470:ILE:CD1	1:A:517:ARG:CD	2.68	0.72
1:B:243:ASP:CG	1:B:244:GLN:N	2.40	0.72
1:B:319:ILE:HA	1:B:322:ILE:HG12	1.70	0.72
1:B:515:VAL:CG1	1:B:530:MET:HE1	2.19	0.72
1:B:618:VAL:O	1:B:621:ILE:HG12	1.88	0.72
1:B:631:MET:HG3	1:B:632:THR:N	2.04	0.72
1:B:780:GLN:C	1:B:782:GLU:H	1.98	0.72
1:A:269:VAL:O	1:A:269:VAL:HG12	1.88	0.72
1:A:386:ASN:OD1	1:A:534:ASP:CA	2.32	0.72
1:A:456:LYS:NZ	1:A:476:ALA:HB1	2.04	0.72
1:B:216:ILE:CB	1:B:243:ASP:HB3	2.20	0.72
1:B:246:PHE:CE1	1:B:269:VAL:CG2	2.72	0.72
1:B:374:ILE:HD12	1:B:555:LYS:NZ	2.05	0.72
1:B:560:ASP:O	1:B:608:ALA:HB1	1.90	0.72
1:B:580:ASN:ND2	1:B:584:LEU:O	2.22	0.72
1:B:690:ALA:O	1:B:693:VAL:HG12	1.88	0.72
1:B:750:TRP:HB3	1:B:754:LYS:HB2	1.72	0.72
1:A:377:SER:OG	1:A:383:LEU:HD21	1.90	0.72
1:A:390:LEU:N	1:A:422:ILE:HD12	2.03	0.72
1:A:453:PRO:CA	1:A:592:MET:CB	2.68	0.72
1:A:505:PHE:CB	1:A:510:PHE:CG	2.72	0.72
1:A:811:ILE:CG2	1:A:867:ILE:HD13	2.19	0.72
1:A:863:PHE:CE1	1:B:309:TRP:HZ3	1.99	0.72
1:B:99:LYS:HE2	1:B:265:ASP:OD2	1.89	0.72
1:B:309:TRP:O	1:B:322:ILE:HD12	1.90	0.72
1:B:731:VAL:HG12	1:B:732:ALA:H	1.54	0.72
1:A:176:LEU:CD2	1:A:191:ILE:HD11	2.20	0.72
1:A:374:ILE:HA	1:A:553:SER:O	1.89	0.72
1:A:442:LYS:HG3	1:A:443:TYR:N	1.70	0.72
1:A:557:LEU:HD23	1:A:607:PHE:CE2	2.23	0.72
1:A:560:ASP:O	1:A:608:ALA:HB1	1.90	0.72
1:A:648:GLY:HA3	1:A:662:ALA:CB	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:PHE:CE1	1:A:837:LEU:HB3	2.24	0.72
1:B:246:PHE:CZ	1:B:248:SER:CA	2.72	0.72
1:B:740:ASN:HB2	1:B:743:TYR:HB3	1.70	0.72
1:A:374:ILE:HD12	1:A:555:LYS:NZ	2.05	0.71
1:A:520:GLY:O	1:A:521:GLU:CB	2.38	0.71
1:A:705:PHE:HZ	1:A:797:LEU:HD21	1.55	0.71
1:B:499:LYS:HD3	1:B:499:LYS:C	2.13	0.71
1:A:111:ASN:O	1:A:112:HIS:CG	2.43	0.71
1:A:375:LEU:HD13	1:A:552:LEU:HD11	1.72	0.71
1:A:583:ARG:CB	1:A:603:ALA:O	2.34	0.71
1:A:682:ARG:HH11	1:A:744:SER:HB3	1.51	0.71
1:A:697:ALA:HB2	1:A:765:VAL:CG2	2.13	0.71
1:A:750:TRP:HB3	1:A:754:LYS:HB2	1.72	0.71
1:B:193:ALA:CA	1:B:196:VAL:CG2	2.58	0.71
1:B:705:PHE:HZ	1:B:797:LEU:HD21	1.55	0.71
1:A:84:THR:HB	1:A:215:ARG:CD	2.19	0.71
1:A:520:GLY:C	1:A:521:GLU:HG3	2.14	0.71
1:A:615:LYS:HG3	1:A:638:ASP:OD1	1.90	0.71
1:B:111:ASN:O	1:B:112:HIS:CG	2.43	0.71
1:B:453:PRO:CA	1:B:592:MET:CB	2.68	0.71
1:B:456:LYS:NZ	1:B:476:ALA:HB1	2.04	0.71
1:B:583:ARG:HG2	1:B:584:LEU:H	1.55	0.71
1:B:589:GLY:O	1:B:597:VAL:HG11	1.91	0.71
1:B:615:LYS:HG3	1:B:638:ASP:OD1	1.90	0.71
1:B:806:ASN:O	1:B:809:ILE:CG2	2.38	0.71
1:B:891:LYS:N	1:B:893:PRO:HD2	2.04	0.71
1:A:75:VAL:H	1:A:76:PRO:HD2	1.55	0.71
1:A:80:LEU:CD2	1:A:80:LEU:N	2.16	0.71
1:A:125:GLN:HA	1:A:151:LEU:CD1	2.20	0.71
1:A:471:THR:O	1:A:517:ARG:HA	1.89	0.71
1:B:408:ALA:N	1:B:527:LEU:HD13	2.01	0.71
1:B:809:ILE:HD13	1:B:827:LEU:HD21	1.72	0.71
1:A:409:CYS:CB	1:A:439:VAL:HG22	2.20	0.71
1:A:862:ILE:HD13	1:B:309:TRP:CE3	2.25	0.71
1:B:125:GLN:O	1:B:151:LEU:CD1	2.39	0.71
1:B:176:LEU:CD2	1:B:191:ILE:HD11	2.20	0.71
1:B:683:GLN:HB3	1:B:687:ARG:HE	1.54	0.71
1:B:736:ILE:HG22	1:B:738:TYR:HE1	1.47	0.71
1:A:188:LEU:HD22	1:A:203:GLN:OE1	1.91	0.71
1:A:477:PRO:HG3	1:A:512:SER:OG	1.90	0.71
1:A:481:LEU:CD2	1:A:498:TYR:CE2	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:511:ARG:N	1:A:564:ILE:CD1	2.51	0.71
1:B:24:LYS:CD	1:B:171:GLU:CA	2.68	0.71
1:B:246:PHE:HB3	1:B:268:PHE:CG	2.24	0.71
1:B:274:ALA:O	1:B:275:LEU:HD12	1.91	0.71
1:A:589:GLY:O	1:A:597:VAL:HG11	1.91	0.71
1:B:415:LYS:HZ3	1:B:511:ARG:HB2	1.56	0.71
1:A:1:MET:O	1:A:3:ASP:N	2.23	0.71
1:A:99:LYS:HE2	1:A:265:ASP:OD2	1.89	0.71
1:A:125:GLN:O	1:A:151:LEU:CD1	2.39	0.71
1:A:515:VAL:CG1	1:A:530:MET:HE1	2.19	0.71
1:A:583:ARG:HG2	1:A:584:LEU:H	1.55	0.71
1:B:247:ALA:HB2	1:B:269:VAL:HB	1.73	0.71
1:B:520:GLY:O	1:B:521:GLU:CB	2.38	0.71
1:B:648:GLY:HA3	1:B:662:ALA:CB	2.20	0.71
1:B:724:PHE:CE1	1:B:837:LEU:CD2	2.73	0.71
1:A:89:THR:C	1:A:91:GLU:H	1.98	0.71
1:A:546:GLU:HB2	1:A:675:ILE:HG21	1.73	0.71
1:A:752:LEU:CB	1:A:753:PRO:HD3	2.10	0.71
1:A:806:ASN:O	1:A:809:ILE:CG2	2.38	0.71
1:A:818:PHE:O	1:A:819:TRP:CB	2.38	0.71
1:B:210:ILE:CB	1:B:245:VAL:HG22	2.20	0.71
1:B:386:ASN:OD1	1:B:535:PRO:HD2	1.90	0.71
1:B:442:LYS:HG2	1:B:443:TYR:CA	2.19	0.71
1:B:510:PHE:O	1:B:564:ILE:HD12	1.90	0.71
1:A:74:VAL:HG23	1:A:76:PRO:HD2	0.71	0.71
1:A:93:VAL:CG2	1:A:197:VAL:HG12	2.15	0.71
1:A:309:TRP:O	1:A:322:ILE:HD12	1.90	0.71
1:A:484:VAL:HA	1:A:524:TRP:HB2	1.68	0.71
1:B:89:THR:C	1:B:91:GLU:H	1.99	0.71
1:B:377:SER:OG	1:B:383:LEU:HD21	1.90	0.71
1:B:406:LEU:HD21	1:B:470:ILE:CG1	2.20	0.71
1:B:422:ILE:HG23	1:B:423:ASP:OD1	1.91	0.71
1:B:546:GLU:HB2	1:B:675:ILE:HG21	1.73	0.71
1:A:31:TYR:O	1:A:33:PRO:CD	2.39	0.70
1:A:219:ASP:HB2	1:A:256:ALA:HA	1.73	0.70
1:B:31:TYR:O	1:B:33:PRO:CD	2.39	0.70
1:B:180:ALA:HB1	1:B:196:VAL:HG11	1.71	0.70
1:B:188:LEU:HD22	1:B:203:GLN:OE1	1.91	0.70
1:B:409:CYS:CB	1:B:439:VAL:HG22	2.20	0.70
1:B:715:ARG:HG3	1:B:790:PHE:HD2	1.55	0.70
1:A:298:LEU:HD23	1:A:298:LEU:O	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:LEU:HD21	1:A:470:ILE:CG1	2.20	0.70
1:A:459:VAL:HG21	1:A:473:VAL:HG22	1.73	0.70
1:B:1:MET:O	1:B:3:ASP:N	2.23	0.70
1:B:49:ILE:HG21	1:B:275:LEU:HB3	1.72	0.70
1:B:93:VAL:CG1	1:B:97:ARG:NH2	2.52	0.70
1:B:125:GLN:HA	1:B:151:LEU:CD1	2.20	0.70
1:A:566:ARG:HD2	1:A:579:TYR:CE1	2.25	0.70
1:A:731:VAL:HG12	1:A:732:ALA:H	1.54	0.70
1:B:49:ILE:HD12	1:B:276:VAL:CA	2.21	0.70
1:B:74:VAL:HG23	1:B:76:PRO:HD2	0.71	0.70
1:B:85:ARG:O	1:B:85:ARG:HG2	1.87	0.70
1:B:325:PHE:CZ	1:B:717:LEU:HD12	2.27	0.70
1:B:432:TYR:O	1:B:433:TYR:O	2.09	0.70
1:B:459:VAL:HG21	1:B:473:VAL:HG22	1.74	0.70
1:A:49:ILE:HD12	1:A:276:VAL:HA	1.74	0.70
1:A:631:MET:HG3	1:A:632:THR:N	2.04	0.70
1:A:706:LEU:HD22	1:A:717:LEU:HD12	1.70	0.70
1:B:176:LEU:CD2	1:B:195:GLU:OE1	2.40	0.70
1:B:325:PHE:CZ	1:B:706:LEU:O	2.44	0.70
1:B:349:GLY:O	1:B:353:LEU:HG	1.91	0.70
1:B:484:VAL:HA	1:B:524:TRP:HB2	1.68	0.70
1:A:180:ALA:HB1	1:A:196:VAL:HG11	1.71	0.70
1:A:258:VAL:HG22	1:A:259:VAL:N	2.06	0.70
1:A:349:GLY:O	1:A:353:LEU:HG	1.91	0.70
1:A:386:ASN:OD1	1:A:535:PRO:HD2	1.90	0.70
1:A:591:ASP:CB	1:A:592:MET:CE	2.55	0.70
1:A:697:ALA:CB	1:A:765:VAL:CG2	2.65	0.70
1:A:724:PHE:CE1	1:A:837:LEU:CD2	2.73	0.70
1:B:21:PHE:HD1	1:B:21:PHE:N	1.84	0.70
1:B:541:TYR:O	1:B:544:VAL:CG2	2.40	0.70
1:B:818:PHE:O	1:B:819:TRP:CB	2.38	0.70
1:A:45:ILE:HG13	1:A:46:ASP:H	1.52	0.70
1:A:325:PHE:CZ	1:A:717:LEU:HD12	2.26	0.70
1:A:510:PHE:HZ	1:A:512:SER:HB3	0.93	0.70
1:A:668:ALA:C	1:A:670:GLY:H	1.99	0.70
1:A:705:PHE:CZ	1:A:797:LEU:HD21	2.27	0.70
1:B:32:GLN:HB3	1:B:33:PRO:CD	2.15	0.70
1:B:48:LEU:O	1:B:52:LEU:CG	2.26	0.70
1:B:94:VAL:O	1:B:98:ARG:CG	2.39	0.70
1:B:125:GLN:HG2	1:B:151:LEU:HD22	0.74	0.70
1:B:267:THR:CG2	1:B:270:GLY:HA3	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:477:PRO:HG3	1:B:512:SER:OG	1.90	0.70
1:B:566:ARG:HD2	1:B:579:TYR:CE1	2.25	0.70
1:B:821:SER:O	1:B:823:PRO:HD3	1.89	0.70
1:A:49:ILE:HD12	1:A:276:VAL:CA	2.21	0.70
1:A:125:GLN:HG2	1:A:151:LEU:HD22	0.74	0.70
1:A:205:GLU:O	1:A:208:THR:HG22	1.91	0.70
1:A:511:ARG:CG	1:A:560:ASP:HA	2.22	0.70
1:A:517:ARG:HG3	1:A:525:GLU:OE1	1.92	0.70
1:A:663:ASP:HB2	1:A:664:ILE:HD13	1.72	0.70
1:B:213:ASP:CB	1:B:262:ALA:HB3	2.21	0.70
1:B:298:LEU:HD23	1:B:298:LEU:O	1.89	0.70
1:B:523:SER:CA	1:B:524:TRP:HE3	2.05	0.70
1:B:596:GLU:O	1:B:600:PHE:HE2	1.75	0.70
1:B:705:PHE:CZ	1:B:797:LEU:HD21	2.27	0.70
1:A:210:ILE:CB	1:A:245:VAL:HG22	2.20	0.70
1:A:399:VAL:O	1:A:401:PRO:CD	2.16	0.70
1:A:596:GLU:O	1:A:600:PHE:CD2	2.45	0.70
1:A:772:ILE:H	1:A:772:ILE:HD12	1.57	0.70
1:B:49:ILE:HD12	1:B:276:VAL:HA	1.74	0.70
1:B:51:ASP:O	1:B:55:HIS:HB2	1.92	0.70
1:B:258:VAL:HG22	1:B:259:VAL:N	2.06	0.70
1:B:388:LEU:HB3	1:B:416:LYS:HD3	1.74	0.70
1:B:498:TYR:CE1	1:B:529:ILE:HG21	2.26	0.70
1:B:830:ALA:O	1:B:834:VAL:HG23	1.92	0.70
1:A:24:LYS:CD	1:A:171:GLU:CA	2.68	0.70
1:A:24:LYS:CD	1:A:171:GLU:O	2.40	0.70
1:A:28:ALA:HB1	1:A:170:ASP:CG	2.16	0.70
1:A:308:VAL:HG13	1:A:710:ILE:HG13	1.70	0.70
1:A:422:ILE:HG23	1:A:423:ASP:OD1	1.91	0.70
1:B:290:LEU:CD2	1:B:756:TRP:CD1	2.67	0.70
1:B:511:ARG:CA	1:B:564:ILE:CD1	2.70	0.70
1:B:596:GLU:O	1:B:600:PHE:CD2	2.45	0.70
1:B:668:ALA:C	1:B:670:GLY:H	1.99	0.70
1:B:772:ILE:H	1:B:772:ILE:HD12	1.57	0.70
1:A:445:VAL:HG22	1:A:462:VAL:HG11	1.72	0.70
1:A:485:GLU:CB	1:A:524:TRP:O	2.38	0.70
1:A:498:TYR:CE1	1:A:529:ILE:HG21	2.26	0.70
1:A:511:ARG:CA	1:A:564:ILE:CD1	2.70	0.70
1:A:666:PHE:CE1	1:A:674:ILE:HG23	2.27	0.70
1:A:809:ILE:HD13	1:A:827:LEU:HD21	1.71	0.70
1:B:663:ASP:HB2	1:B:664:ILE:HD13	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:THR:N	1:A:69:PRO:HD2	2.07	0.69
1:A:267:THR:CG2	1:A:270:GLY:HA3	2.22	0.69
1:A:325:PHE:CZ	1:A:706:LEU:O	2.44	0.69
1:A:682:ARG:NH1	1:A:744:SER:HB2	2.07	0.69
1:A:683:GLN:CG	1:A:687:ARG:HH21	2.05	0.69
1:A:31:TYR:CD2	1:A:170:ASP:OD1	2.45	0.69
1:A:77:GLU:O	1:A:80:LEU:CG	2.39	0.69
1:A:100:TYR:CZ	1:A:103:ASN:CA	2.74	0.69
1:A:213:ASP:CB	1:A:262:ALA:HB3	2.21	0.69
1:A:305:LEU:CD1	1:A:329:ILE:CA	2.66	0.69
1:A:687:ARG:NH2	1:A:739:ASP:CB	2.55	0.69
1:A:830:ALA:O	1:A:834:VAL:HG23	1.92	0.69
1:B:37:VAL:C	1:B:38:GLU:HG2	2.17	0.69
1:B:93:VAL:HG13	1:B:97:ARG:HE	1.53	0.69
1:B:135:ALA:HB1	1:B:138:LEU:HB2	1.73	0.69
1:B:205:GLU:O	1:B:208:THR:HG22	1.91	0.69
1:B:232:GLY:O	1:B:233:GLU:HG2	1.92	0.69
1:B:246:PHE:CE1	1:B:248:SER:N	2.60	0.69
1:B:481:LEU:CD2	1:B:498:TYR:CE2	2.73	0.69
1:B:698:LEU:HB2	1:B:808:LEU:CD2	2.21	0.69
1:A:373:GLU:OE2	1:A:748:VAL:HB	1.92	0.69
1:A:607:PHE:HD1	1:A:610:VAL:CG2	2.04	0.69
1:A:780:GLN:C	1:A:782:GLU:H	1.98	0.69
1:A:895:GLY:HA2	1:A:898:LYS:HB2	1.75	0.69
1:B:517:ARG:HG3	1:B:525:GLU:OE1	1.92	0.69
1:B:594:GLY:O	1:B:597:VAL:CG1	2.38	0.69
1:B:714:ASN:O	1:B:715:ARG:O	2.10	0.69
1:A:94:VAL:O	1:A:98:ARG:CG	2.39	0.69
1:B:100:TYR:CZ	1:B:103:ASN:CA	2.74	0.69
1:B:219:ASP:HB2	1:B:256:ALA:HA	1.73	0.69
1:B:309:TRP:O	1:B:322:ILE:CD1	2.40	0.69
1:B:388:LEU:HD22	1:B:416:LYS:HG3	1.75	0.69
1:B:400:ASP:N	1:B:401:PRO:HD2	2.05	0.69
1:B:445:VAL:HG22	1:B:462:VAL:HG11	1.72	0.69
1:B:468:GLU:O	1:B:469:ARG:CG	2.41	0.69
1:B:682:ARG:NH1	1:B:744:SER:HB2	2.08	0.69
1:A:309:TRP:O	1:A:322:ILE:CD1	2.40	0.69
1:A:667:LEU:C	1:A:669:PRO:HD3	2.12	0.69
1:B:75:VAL:H	1:B:76:PRO:HD2	1.55	0.69
1:B:373:GLU:OE2	1:B:748:VAL:HB	1.92	0.69
1:B:517:ARG:CD	1:B:518:LYS:N	2.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:631:MET:HG3	1:B:632:THR:H	1.57	0.69
1:B:895:GLY:HA2	1:B:898:LYS:HB2	1.75	0.69
1:A:51:ASP:O	1:A:55:HIS:HB2	1.92	0.69
1:A:216:ILE:HD11	1:A:243:ASP:OD2	1.92	0.69
1:A:246:PHE:CE1	1:A:248:SER:N	2.60	0.69
1:A:417:LYS:C	1:A:418:GLY:O	2.35	0.69
1:A:510:PHE:O	1:A:564:ILE:HD12	1.90	0.69
1:A:523:SER:CA	1:A:524:TRP:HE3	2.05	0.69
1:A:689:TYR:CG	1:A:815:ASN:OD1	2.46	0.69
1:A:893:PRO:C	1:A:894:LYS:CG	2.62	0.69
1:B:511:ARG:N	1:B:564:ILE:CD1	2.51	0.69
1:B:666:PHE:CE1	1:B:674:ILE:HG23	2.27	0.69
1:B:689:TYR:CG	1:B:815:ASN:OD1	2.46	0.69
1:A:232:GLY:O	1:A:233:GLU:HG2	1.92	0.69
1:A:247:ALA:HB2	1:A:269:VAL:HB	1.73	0.69
1:A:432:TYR:O	1:A:433:TYR:O	2.09	0.69
1:A:780:GLN:HE22	1:A:792:ASN:CB	2.06	0.69
1:A:855:VAL:CB	1:B:319:ILE:CG2	2.58	0.69
1:B:68:THR:N	1:B:69:PRO:HD2	2.07	0.69
1:B:315:ARG:HH22	1:B:714:ASN:HA	1.58	0.69
1:B:611:PHE:CB	1:B:612:PRO:CD	2.57	0.69
1:A:4:HIS:O	1:A:7:SER:N	2.24	0.69
1:A:21:PHE:HD1	1:A:21:PHE:N	1.85	0.69
1:A:37:VAL:C	1:A:38:GLU:HG2	2.17	0.69
1:A:54:SER:HA	1:A:72:GLY:HA3	1.75	0.69
1:A:100:TYR:CZ	1:A:103:ASN:CB	2.76	0.69
1:A:134:LEU:C	1:A:134:LEU:CD1	2.65	0.69
1:A:176:LEU:CD2	1:A:195:GLU:OE1	2.39	0.69
1:A:182:VAL:N	1:A:189:LYS:O	2.18	0.69
1:A:319:ILE:CG1	1:A:322:ILE:HD11	2.21	0.69
1:A:388:LEU:HD22	1:A:416:LYS:HG3	1.75	0.69
1:A:411:ALA:HB3	1:A:527:LEU:HD12	1.74	0.69
1:A:560:ASP:HB3	1:A:564:ILE:CG2	2.22	0.69
1:A:694:TYR:HB3	1:A:812:THR:HG21	1.64	0.69
1:A:714:ASN:O	1:A:715:ARG:O	2.10	0.69
1:A:715:ARG:HG3	1:A:790:PHE:HD2	1.55	0.69
1:B:75:VAL:N	1:B:76:PRO:HD2	2.04	0.69
1:B:590:GLY:O	1:B:611:PHE:HE1	1.75	0.69
1:B:687:ARG:NH2	1:B:739:ASP:CB	2.55	0.69
1:A:32:GLN:HB3	1:A:33:PRO:CD	2.15	0.69
1:A:375:LEU:HD13	1:A:552:LEU:CD1	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:LEU:HD13	1:A:556:MET:HE3	1.75	0.69
1:A:679:LYS:HB3	1:A:743:TYR:CZ	2.28	0.69
1:B:24:LYS:CB	1:B:171:GLU:HA	2.23	0.69
1:B:214:GLY:CA	1:B:245:VAL:HG12	2.23	0.69
1:B:511:ARG:CG	1:B:560:ASP:HA	2.22	0.69
1:B:679:LYS:HB3	1:B:743:TYR:CZ	2.28	0.69
1:B:697:ALA:CB	1:B:765:VAL:CG2	2.65	0.69
1:B:780:GLN:HE22	1:B:792:ASN:CB	2.06	0.69
1:A:135:ALA:HB1	1:A:138:LEU:HB2	1.73	0.69
1:A:415:LYS:NZ	1:A:560:ASP:CG	2.51	0.69
1:A:590:GLY:O	1:A:611:PHE:HE1	1.75	0.69
1:A:596:GLU:O	1:A:600:PHE:HE2	1.74	0.69
1:A:780:GLN:CA	1:A:783:ASN:HB2	2.21	0.69
1:A:890:GLY:C	1:A:893:PRO:HD2	2.18	0.69
1:B:24:LYS:CD	1:B:171:GLU:O	2.40	0.69
1:B:77:GLU:O	1:B:80:LEU:CG	2.39	0.69
1:B:686:HIS:HB3	1:B:815:ASN:HB3	1.74	0.69
1:A:24:LYS:CB	1:A:171:GLU:HA	2.23	0.68
1:A:28:ALA:HA	1:A:170:ASP:HB3	1.70	0.68
1:A:325:PHE:CE2	1:A:710:ILE:HD11	2.27	0.68
1:B:111:ASN:C	1:B:112:HIS:ND1	2.51	0.68
1:B:383:LEU:CD2	1:B:671:LEU:HD13	2.23	0.68
1:A:143:ASP:C	1:A:146:VAL:HG22	2.18	0.68
1:A:214:GLY:CA	1:A:245:VAL:HG12	2.23	0.68
1:A:809:ILE:O	1:A:812:THR:OG1	2.11	0.68
1:B:84:THR:HB	1:B:215:ARG:HB2	1.75	0.68
1:B:84:THR:OG1	1:B:85:ARG:N	2.23	0.68
1:B:470:ILE:CD1	1:B:517:ARG:HG2	2.23	0.68
1:B:698:LEU:HD22	1:B:805:GLU:HB3	1.69	0.68
1:B:752:LEU:CB	1:B:753:PRO:HD3	2.10	0.68
1:A:15:ASN:C	1:A:17:GLU:N	2.48	0.68
1:A:541:TYR:O	1:A:544:VAL:CG2	2.40	0.68
1:A:618:VAL:C	1:A:621:ILE:HG12	2.18	0.68
1:B:28:ALA:HB1	1:B:170:ASP:CG	2.16	0.68
1:B:125:GLN:CB	1:B:151:LEU:HD22	2.21	0.68
1:B:325:PHE:CE2	1:B:710:ILE:HD11	2.27	0.68
1:B:360:VAL:CG2	1:B:664:ILE:CG2	2.59	0.68
1:B:456:LYS:CE	1:B:476:ALA:HB3	2.11	0.68
1:B:583:ARG:HB3	1:B:603:ALA:HB1	1.71	0.68
1:B:706:LEU:HD22	1:B:717:LEU:HD12	1.71	0.68
1:B:740:ASN:N	1:B:740:ASN:OD1	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:ASP:CG	1:A:244:GLN:N	2.40	0.68
1:A:566:ARG:HB2	1:A:586:LEU:CA	2.24	0.68
1:B:4:HIS:O	1:B:7:SER:N	2.24	0.68
1:B:216:ILE:HD11	1:B:243:ASP:OD2	1.92	0.68
1:B:442:LYS:HG3	1:B:443:TYR:N	1.70	0.68
1:B:485:GLU:CB	1:B:524:TRP:O	2.38	0.68
1:B:560:ASP:HB3	1:B:564:ILE:CG2	2.22	0.68
1:B:566:ARG:HB2	1:B:586:LEU:CA	2.24	0.68
1:B:810:PHE:CE2	1:B:823:PRO:CG	2.75	0.68
1:A:293:ILE:HD11	1:A:756:TRP:HZ3	1.52	0.68
1:A:505:PHE:HB3	1:A:510:PHE:HB2	1.76	0.68
1:A:631:MET:HG3	1:A:632:THR:H	1.56	0.68
1:A:858:VAL:O	1:A:862:ILE:HG23	1.93	0.68
1:A:859:ARG:HA	1:A:862:ILE:HG12	1.75	0.68
1:B:411:ALA:HB3	1:B:527:LEU:HD12	1.74	0.68
1:B:505:PHE:HB3	1:B:510:PHE:HB2	1.76	0.68
1:B:506:ALA:O	1:B:567:GLU:HG3	1.94	0.68
1:B:583:ARG:CB	1:B:603:ALA:O	2.34	0.68
1:B:592:MET:HG2	1:B:593:PRO:HD2	1.76	0.68
1:B:809:ILE:O	1:B:812:THR:OG1	2.11	0.68
1:A:274:ALA:O	1:A:275:LEU:HD12	1.91	0.68
1:A:293:ILE:CD1	1:A:756:TRP:CD2	2.77	0.68
1:A:459:VAL:HG22	1:A:473:VAL:CG2	2.21	0.68
1:A:459:VAL:CG1	1:A:471:THR:CG2	2.71	0.68
1:B:15:ASN:C	1:B:17:GLU:N	2.48	0.68
1:B:54:SER:HA	1:B:72:GLY:HA3	1.75	0.68
1:B:80:LEU:HD13	1:B:240:HIS:HB2	1.76	0.68
1:B:511:ARG:O	1:B:531:PRO:HA	1.94	0.68
1:B:671:LEU:HD12	1:B:674:ILE:CD1	2.23	0.68
1:A:80:LEU:HD13	1:A:240:HIS:HB2	1.76	0.68
1:A:325:PHE:HZ	1:A:709:TRP:CD1	2.11	0.68
1:A:686:HIS:HB3	1:A:815:ASN:HB3	1.74	0.68
1:A:740:ASN:OD1	1:A:740:ASN:N	2.25	0.68
1:B:31:TYR:CD2	1:B:170:ASP:OD1	2.45	0.68
1:B:247:ALA:HB3	1:B:269:VAL:CG1	2.22	0.68
1:B:305:LEU:CD1	1:B:329:ILE:CA	2.66	0.68
1:B:618:VAL:C	1:B:621:ILE:HG12	2.18	0.68
1:A:16:ILE:CG2	1:A:176:LEU:HD13	2.24	0.68
1:A:247:ALA:HB3	1:A:269:VAL:CG1	2.22	0.68
1:A:388:LEU:HB3	1:A:416:LYS:HD3	1.74	0.68
1:A:400:ASP:N	1:A:401:PRO:HD2	2.05	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:ILE:HD13	1:B:702:LEU:CG	2.21	0.68
1:B:683:GLN:HB2	1:B:687:ARG:NH2	2.07	0.68
1:A:84:THR:HB	1:A:215:ARG:HB2	1.75	0.68
1:A:93:VAL:HG13	1:A:197:VAL:CG1	2.09	0.68
1:A:383:LEU:CD2	1:A:671:LEU:HD13	2.23	0.68
1:A:429:SER:O	1:A:432:TYR:HB2	1.94	0.68
1:A:468:GLU:O	1:A:469:ARG:CG	2.41	0.68
1:A:506:ALA:O	1:A:567:GLU:HG3	1.94	0.68
1:A:568:THR:O	1:A:572:LEU:HD23	1.94	0.68
1:A:601:VAL:HG13	1:A:602:GLU:H	1.50	0.68
1:A:671:LEU:CA	1:A:674:ILE:HD11	2.24	0.68
1:B:111:ASN:C	1:B:112:HIS:HD1	2.01	0.68
1:B:589:GLY:C	1:B:591:ASP:H	2.00	0.68
1:B:719:ILE:O	1:B:723:VAL:CG1	2.40	0.68
1:B:905:PHE:O	1:B:908:SER:CB	2.42	0.68
1:A:224:GLN:HG3	1:A:253:ARG:HD3	1.76	0.68
1:A:315:ARG:HH22	1:A:714:ASN:HA	1.58	0.68
1:A:332:ILE:HD12	1:A:702:LEU:CD2	2.20	0.68
1:A:592:MET:HE2	1:A:592:MET:H	1.39	0.68
1:A:912:VAL:HG12	1:A:915:GLN:CB	2.23	0.68
1:B:16:ILE:CG2	1:B:176:LEU:HD13	2.24	0.68
1:B:319:ILE:HA	1:B:322:ILE:CG1	2.24	0.68
1:B:505:PHE:HB2	1:B:510:PHE:CD2	2.28	0.68
1:A:100:TYR:CD1	1:A:264:GLY:C	2.72	0.67
1:A:111:ASN:C	1:A:112:HIS:ND1	2.51	0.67
1:A:271:ARG:HD2	1:A:275:LEU:HD22	1.76	0.67
1:A:309:TRP:HE1	1:A:319:ILE:HG12	1.59	0.67
1:A:471:THR:CB	1:A:519:ARG:CA	2.72	0.67
1:A:511:ARG:O	1:A:531:PRO:HA	1.94	0.67
1:A:557:LEU:CD2	1:A:607:PHE:CE2	2.77	0.67
1:A:666:PHE:CZ	1:A:674:ILE:HG23	2.29	0.67
1:A:698:LEU:HB2	1:A:808:LEU:CD2	2.21	0.67
1:A:698:LEU:CB	1:A:808:LEU:HD23	2.20	0.67
1:A:771:TRP:HH2	1:B:303:PHE:CE1	2.11	0.67
1:A:862:ILE:HD13	1:B:309:TRP:CZ3	2.26	0.67
1:B:100:TYR:CD1	1:B:264:GLY:C	2.72	0.67
1:B:407:THR:CA	1:B:527:LEU:HD13	2.24	0.67
1:B:510:PHE:HE1	1:B:512:SER:HA	1.58	0.67
1:B:638:ASP:O	1:B:642:LEU:HG	1.94	0.67
1:B:683:GLN:CG	1:B:687:ARG:HH21	2.05	0.67
1:B:912:VAL:HG12	1:B:915:GLN:CB	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:ILE:HB	1:A:243:ASP:HB3	1.76	0.67
1:A:305:LEU:HD21	1:A:329:ILE:HG22	1.77	0.67
1:A:410:LEU:HB3	1:A:472:CYS:SG	2.35	0.67
1:A:589:GLY:C	1:A:591:ASP:H	2.00	0.67
1:A:671:LEU:HD12	1:A:674:ILE:CD1	2.23	0.67
1:A:683:GLN:HB2	1:A:687:ARG:NH2	2.07	0.67
1:A:808:LEU:C	1:A:811:ILE:HG12	2.19	0.67
1:B:309:TRP:HE1	1:B:319:ILE:HG12	1.59	0.67
1:B:429:SER:O	1:B:432:TYR:HB2	1.94	0.67
1:B:459:VAL:CG1	1:B:471:THR:CG2	2.71	0.67
1:B:557:LEU:CD2	1:B:607:PHE:CE2	2.77	0.67
1:A:290:LEU:HD11	1:A:688:MET:HE1	1.77	0.67
1:A:415:LYS:HZ2	1:A:560:ASP:CG	2.00	0.67
1:B:100:TYR:CZ	1:B:103:ASN:CB	2.76	0.67
1:B:319:ILE:CG1	1:B:322:ILE:HD11	2.21	0.67
1:B:370:ALA:HB2	1:B:681:SER:HB3	1.76	0.67
1:B:591:ASP:CB	1:B:592:MET:CE	2.55	0.67
1:B:648:GLY:CA	1:B:662:ALA:CB	2.72	0.67
1:B:815:ASN:ND2	1:B:815:ASN:O	2.27	0.67
1:B:818:PHE:CB	1:B:875:TYR:HB3	2.12	0.67
1:B:858:VAL:O	1:B:862:ILE:HG23	1.93	0.67
1:B:890:GLY:C	1:B:893:PRO:HD2	2.18	0.67
1:A:48:LEU:O	1:A:52:LEU:CG	2.26	0.67
1:A:215:ARG:O	1:A:258:VAL:HG23	1.95	0.67
1:A:409:CYS:SG	1:A:439:VAL:C	2.77	0.67
1:A:470:ILE:CD1	1:A:517:ARG:HG2	2.23	0.67
1:A:764:VAL:HG22	1:A:874:VAL:HG11	1.75	0.67
1:A:905:PHE:O	1:A:908:SER:CB	2.42	0.67
1:B:31:TYR:HD1	1:B:98:ARG:CB	2.04	0.67
1:B:543:THR:CG2	1:B:675:ILE:HG12	2.18	0.67
1:B:827:LEU:HD13	1:B:827:LEU:C	2.19	0.67
1:B:890:GLY:C	1:B:893:PRO:CG	2.67	0.67
1:A:125:GLN:CB	1:A:151:LEU:HD22	2.21	0.67
1:A:319:ILE:HA	1:A:322:ILE:CG1	2.24	0.67
1:A:505:PHE:HB2	1:A:510:PHE:CD2	2.28	0.67
1:A:638:ASP:O	1:A:642:LEU:HG	1.94	0.67
1:A:683:GLN:NE2	1:A:743:TYR:CZ	2.60	0.67
1:A:698:LEU:HD22	1:A:805:GLU:HB3	1.69	0.67
1:A:803:LEU:CD1	1:A:807:TRP:HE1	2.08	0.67
1:B:410:LEU:HB3	1:B:472:CYS:SG	2.35	0.67
1:B:713:LEU:O	1:B:714:ASN:OD1	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:MET:HG2	1:A:593:PRO:HD2	1.76	0.67
1:A:815:ASN:O	1:A:815:ASN:ND2	2.27	0.67
1:A:890:GLY:C	1:A:893:PRO:CG	2.67	0.67
1:B:415:LYS:NZ	1:B:560:ASP:CG	2.51	0.67
1:B:671:LEU:CA	1:B:674:ILE:HD11	2.24	0.67
1:B:822:ILE:N	1:B:823:PRO:HD2	2.09	0.67
1:A:210:ILE:HG21	1:A:245:VAL:C	2.20	0.67
1:A:216:ILE:CD1	1:A:243:ASP:CB	2.46	0.67
1:A:706:LEU:CD2	1:A:717:LEU:HD11	1.98	0.67
1:A:827:LEU:C	1:A:827:LEU:HD13	2.19	0.67
1:B:375:LEU:HD13	1:B:552:LEU:HD11	1.72	0.67
1:B:409:CYS:SG	1:B:439:VAL:C	2.77	0.67
1:B:777:MET:O	1:B:781:GLY:HA3	1.94	0.67
1:A:338:LEU:O	1:A:338:LEU:HD23	1.94	0.67
1:B:24:LYS:HB2	1:B:171:GLU:HA	1.77	0.67
1:B:666:PHE:CZ	1:B:674:ILE:HG23	2.29	0.67
1:B:698:LEU:CB	1:B:808:LEU:HD23	2.20	0.67
1:A:223:LEU:HD12	1:A:239:LYS:HD2	1.76	0.67
1:A:770:THR:C	1:A:773:THR:HG22	2.20	0.67
1:B:143:ASP:C	1:B:146:VAL:HG22	2.18	0.67
1:B:301:VAL:O	1:B:305:LEU:CG	2.39	0.67
1:B:305:LEU:HD21	1:B:329:ILE:HG22	1.77	0.67
1:B:459:VAL:HG22	1:B:473:VAL:CG2	2.21	0.67
1:B:721:LEU:C	1:B:798:PHE:CE1	2.73	0.67
1:B:764:VAL:HG22	1:B:874:VAL:HG11	1.75	0.67
1:B:803:LEU:CD1	1:B:807:TRP:HE1	2.08	0.67
1:B:809:ILE:HD11	1:B:827:LEU:CD2	2.24	0.67
1:A:75:VAL:N	1:A:76:PRO:HD2	2.04	0.67
1:A:428:LYS:HE2	1:A:432:TYR:HH	1.59	0.67
1:A:679:LYS:HB3	1:A:743:TYR:HH	1.60	0.67
1:A:750:TRP:O	1:A:754:LYS:CB	2.42	0.67
1:A:871:MET:C	1:A:875:TYR:HD1	2.02	0.67
1:B:119:PHE:O	1:B:123:PRO:CD	2.42	0.67
1:B:215:ARG:O	1:B:258:VAL:HG23	1.95	0.67
1:B:216:ILE:HB	1:B:243:ASP:HB3	1.76	0.67
1:B:405:MET:SD	1:B:439:VAL:CG2	2.83	0.67
1:B:683:GLN:NE2	1:B:743:TYR:CZ	2.60	0.67
1:B:715:ARG:NE	1:B:794:ASP:HB3	2.10	0.67
1:B:750:TRP:O	1:B:754:LYS:CB	2.42	0.67
1:B:770:THR:C	1:B:773:THR:HG22	2.20	0.67
1:B:859:ARG:HA	1:B:862:ILE:HG12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:LYS:HB2	1:A:171:GLU:HA	1.77	0.66
1:A:178:LEU:CG	1:A:179:LYS:N	2.58	0.66
1:A:415:LYS:HZ3	1:A:511:ARG:HB2	1.51	0.66
1:A:439:VAL:CG1	1:A:440:LEU:N	2.58	0.66
1:A:511:ARG:HG2	1:A:560:ASP:HA	1.76	0.66
1:A:796:VAL:CG1	1:A:800:GLN:HG3	2.25	0.66
1:A:863:PHE:CE1	1:B:309:TRP:CZ3	2.80	0.66
1:B:82:THR:O	1:B:83:ASP:CB	2.42	0.66
1:B:210:ILE:HG21	1:B:245:VAL:C	2.20	0.66
1:B:224:GLN:HG3	1:B:253:ARG:HD3	1.76	0.66
1:B:293:ILE:HD13	1:B:756:TRP:CZ2	2.30	0.66
1:B:471:THR:CB	1:B:519:ARG:CA	2.72	0.66
1:B:725:ILE:HD13	1:B:725:ILE:C	2.19	0.66
1:A:6:ALA:O	1:A:10:PRO:HG3	1.94	0.66
1:A:82:THR:O	1:A:83:ASP:CB	2.42	0.66
1:A:183:LEU:CD2	1:A:188:LEU:HA	2.24	0.66
1:A:293:ILE:HD13	1:A:756:TRP:CZ2	2.30	0.66
1:A:648:GLY:CA	1:A:662:ALA:CB	2.72	0.66
1:A:725:ILE:HD13	1:A:725:ILE:C	2.19	0.66
1:A:762:LEU:O	1:A:765:VAL:HG12	1.96	0.66
1:B:144:PHE:O	1:B:147:ILE:HG13	1.96	0.66
1:B:176:LEU:HD23	1:B:191:ILE:HD13	1.76	0.66
1:B:223:LEU:HD12	1:B:239:LYS:HD2	1.76	0.66
1:B:373:GLU:O	1:B:552:LEU:HD12	1.96	0.66
1:B:383:LEU:HD13	1:B:556:MET:HE3	1.75	0.66
1:B:407:THR:O	1:B:527:LEU:HD12	1.93	0.66
1:A:142:VAL:O	1:A:142:VAL:HG12	1.96	0.66
1:A:147:ILE:O	1:A:151:LEU:HG	1.95	0.66
1:A:306:LEU:O	1:A:309:TRP:HE3	1.78	0.66
1:A:319:ILE:O	1:A:322:ILE:HG13	1.94	0.66
1:A:420:ASP:CG	1:A:421:ALA:N	2.54	0.66
1:A:715:ARG:NE	1:A:794:ASP:HB3	2.10	0.66
1:A:777:MET:O	1:A:781:GLY:HA3	1.94	0.66
1:A:822:ILE:N	1:A:823:PRO:HD2	2.09	0.66
1:B:215:ARG:O	1:B:215:ARG:CG	2.44	0.66
1:B:227:GLN:HG3	1:B:237:VAL:HG21	1.77	0.66
1:B:271:ARG:HD2	1:B:275:LEU:HD22	1.76	0.66
1:B:300:LEU:O	1:B:304:THR:HG23	1.96	0.66
1:B:338:LEU:HD23	1:B:338:LEU:O	1.94	0.66
1:B:796:VAL:CG1	1:B:800:GLN:HG3	2.25	0.66
1:B:871:MET:C	1:B:875:TYR:HD1	2.02	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:PHE:O	1:A:123:PRO:CD	2.42	0.66
1:A:201:ILE:CG2	1:A:257:PHE:CZ	2.74	0.66
1:A:405:MET:SD	1:A:439:VAL:CG2	2.83	0.66
1:A:510:PHE:HE1	1:A:512:SER:HA	1.58	0.66
1:A:594:GLY:O	1:A:597:VAL:CG1	2.38	0.66
1:A:698:LEU:CD2	1:A:805:GLU:CG	2.69	0.66
1:B:93:VAL:HG22	1:B:197:VAL:HG12	1.75	0.66
1:B:147:ILE:O	1:B:151:LEU:HG	1.95	0.66
1:B:178:LEU:CG	1:B:179:LYS:N	2.58	0.66
1:B:180:ALA:CB	1:B:196:VAL:HG11	2.26	0.66
1:B:306:LEU:O	1:B:309:TRP:HE3	1.78	0.66
1:B:312:SER:HB2	1:B:710:ILE:HG21	1.67	0.66
1:A:332:ILE:HD13	1:A:702:LEU:CG	2.21	0.66
1:A:407:THR:O	1:A:527:LEU:HD12	1.93	0.66
1:A:809:ILE:HD11	1:A:827:LEU:CD2	2.24	0.66
1:B:267:THR:CB	1:B:270:GLY:HA3	2.26	0.66
1:B:290:LEU:HD11	1:B:688:MET:HE1	1.77	0.66
1:B:325:PHE:HZ	1:B:709:TRP:CD1	2.11	0.66
1:B:417:LYS:C	1:B:418:GLY:O	2.35	0.66
1:B:439:VAL:CG1	1:B:440:LEU:N	2.58	0.66
1:B:550:LEU:HD12	1:B:746:THR:O	1.95	0.66
1:B:568:THR:O	1:B:572:LEU:HD23	1.94	0.66
1:B:705:PHE:HE2	1:B:717:LEU:HD21	1.60	0.66
1:B:772:ILE:CA	1:B:775:THR:OG1	2.41	0.66
1:B:804:THR:HA	1:B:807:TRP:CE3	2.31	0.66
1:A:180:ALA:CB	1:A:196:VAL:HG11	2.26	0.66
1:A:209:ILE:HD12	1:A:248:SER:O	1.96	0.66
1:A:217:VAL:HG11	1:A:257:PHE:CD2	2.29	0.66
1:A:414:ARG:NH1	1:A:423:ASP:OD2	2.29	0.66
1:A:810:PHE:CE2	1:A:823:PRO:CG	2.75	0.66
1:A:916:HIS:O	1:A:920:GLN:HG3	1.94	0.66
1:B:201:ILE:CG2	1:B:257:PHE:CZ	2.74	0.66
1:B:516:ALA:O	1:B:517:ARG:HB3	1.94	0.66
1:B:802:SER:O	1:B:806:ASN:OD1	2.14	0.66
1:A:84:THR:OG1	1:A:85:ARG:N	2.23	0.66
1:A:144:PHE:O	1:A:147:ILE:HG13	1.95	0.66
1:A:309:TRP:C	1:A:322:ILE:HD12	2.21	0.66
1:A:550:LEU:HD12	1:A:746:THR:O	1.95	0.66
1:A:682:ARG:HH12	1:A:744:SER:CB	1.95	0.66
1:A:802:SER:O	1:A:806:ASN:OD1	2.14	0.66
1:B:134:LEU:C	1:B:134:LEU:CD1	2.65	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:VAL:HG12	1:B:142:VAL:O	1.96	0.66
1:B:239:LYS:CD	1:B:243:ASP:CG	2.67	0.66
1:B:725:ILE:HG12	1:B:728:PHE:HE1	1.61	0.66
1:B:818:PHE:O	1:B:818:PHE:CD1	2.48	0.66
1:B:843:ILE:CG2	1:B:844:TRP:CD1	2.79	0.66
1:A:300:LEU:O	1:A:304:THR:HG23	1.96	0.66
1:A:484:VAL:N	1:A:524:TRP:HB3	2.11	0.66
1:A:705:PHE:HE2	1:A:717:LEU:HD21	1.60	0.66
1:A:818:PHE:O	1:A:818:PHE:CD1	2.48	0.66
1:B:502:VAL:HG23	1:B:510:PHE:CZ	2.31	0.66
1:B:533:MET:O	1:B:534:ASP:HB3	1.96	0.66
1:B:808:LEU:HD11	1:B:811:ILE:HD11	1.60	0.66
1:A:305:LEU:CD2	1:A:305:LEU:N	2.59	0.66
1:A:391:HIS:C	1:A:393:PRO:HD3	2.21	0.66
1:A:511:ARG:H	1:A:532:CYS:H	1.44	0.66
1:A:713:LEU:O	1:A:714:ASN:OD1	2.12	0.66
1:B:391:HIS:C	1:B:393:PRO:HD3	2.21	0.66
1:B:582:GLU:CB	1:B:583:ARG:HD3	2.26	0.66
1:B:679:LYS:CB	1:B:682:ARG:CZ	2.74	0.66
1:B:916:HIS:O	1:B:920:GLN:HG3	1.95	0.66
1:A:111:ASN:C	1:A:112:HIS:HD1	2.01	0.66
1:A:267:THR:CB	1:A:270:GLY:HA3	2.26	0.66
1:A:384:THR:CG2	1:A:386:ASN:O	2.44	0.66
1:A:483:THR:HG22	1:A:524:TRP:CB	2.22	0.66
1:A:484:VAL:CG2	1:A:526:ILE:CG1	2.64	0.66
1:A:721:LEU:C	1:A:798:PHE:CE1	2.73	0.66
1:B:6:ALA:O	1:B:10:PRO:HG3	1.94	0.66
1:B:74:VAL:CG2	1:B:76:PRO:CG	2.73	0.66
1:B:384:THR:CG2	1:B:386:ASN:O	2.44	0.66
1:B:394:TYR:C	1:B:394:TYR:HD1	2.04	0.66
1:B:485:GLU:N	1:B:524:TRP:HB2	2.10	0.66
1:B:762:LEU:O	1:B:765:VAL:HG12	1.96	0.66
1:A:178:LEU:CD1	1:A:179:LYS:H	2.08	0.65
1:B:68:THR:N	1:B:69:PRO:CD	2.59	0.65
1:B:214:GLY:HA3	1:B:245:VAL:HG12	1.77	0.65
1:B:305:LEU:CD2	1:B:305:LEU:N	2.59	0.65
1:B:385:LYS:HZ1	1:B:537:ARG:HG3	1.61	0.65
1:B:471:THR:HB	1:B:519:ARG:H	1.60	0.65
1:B:511:ARG:HG2	1:B:560:ASP:HA	1.76	0.65
1:B:780:GLN:CA	1:B:783:ASN:HB2	2.21	0.65
1:B:787:VAL:O	1:B:788:GLN:CB	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:TRP:CB	1:A:326:THR:HG23	2.08	0.65
1:A:373:GLU:O	1:A:552:LEU:HD12	1.96	0.65
1:A:543:THR:C	1:A:675:ILE:HG13	2.22	0.65
1:A:570:ARG:HA	1:A:576:THR:O	1.97	0.65
1:A:583:ARG:HB3	1:A:603:ALA:HB1	1.71	0.65
1:A:679:LYS:CB	1:A:682:ARG:CZ	2.74	0.65
1:A:783:ASN:O	1:B:313:PHE:CZ	2.49	0.65
1:A:787:VAL:O	1:A:788:GLN:CB	2.45	0.65
1:B:274:ALA:HB3	1:B:275:LEU:CD1	2.26	0.65
1:B:309:TRP:C	1:B:322:ILE:HD12	2.21	0.65
1:B:502:VAL:HG22	1:B:510:PHE:HZ	1.59	0.65
1:B:511:ARG:H	1:B:532:CYS:H	1.44	0.65
1:B:639:ALA:HB3	1:B:640:PRO:HD3	1.78	0.65
1:B:810:PHE:CE1	1:B:827:LEU:HD12	2.32	0.65
1:A:227:GLN:HG3	1:A:237:VAL:HG21	1.77	0.65
1:A:407:THR:CA	1:A:527:LEU:HD13	2.24	0.65
1:A:639:ALA:HB3	1:A:640:PRO:HD3	1.78	0.65
1:A:721:LEU:HB3	1:A:798:PHE:CD1	2.31	0.65
1:A:804:THR:HA	1:A:807:TRP:CE3	2.31	0.65
1:A:855:VAL:O	1:B:319:ILE:CD1	2.44	0.65
1:B:93:VAL:O	1:B:97:ARG:CG	2.37	0.65
1:B:383:LEU:HD23	1:B:671:LEU:CB	2.26	0.65
1:B:459:VAL:CG1	1:B:471:THR:HG22	2.26	0.65
1:A:215:ARG:O	1:A:215:ARG:CG	2.44	0.65
1:B:721:LEU:HB3	1:B:798:PHE:CD1	2.31	0.65
1:A:214:GLY:HA3	1:A:245:VAL:HG12	1.77	0.65
1:A:357:LYS:HB2	1:A:668:ALA:HB2	1.78	0.65
1:A:533:MET:O	1:A:534:ASP:HB3	1.96	0.65
1:A:772:ILE:CA	1:A:775:THR:OG1	2.41	0.65
1:A:853:SER:HA	1:A:857:VAL:HG13	1.79	0.65
1:B:386:ASN:OD1	1:B:534:ASP:CA	2.32	0.65
1:A:770:THR:CA	1:A:773:THR:HG22	2.27	0.65
1:A:771:TRP:HZ2	1:A:863:PHE:CD2	2.15	0.65
1:B:195:GLU:O	1:B:197:VAL:HG13	1.96	0.65
1:B:298:LEU:O	1:B:302:ILE:HG12	1.96	0.65
1:B:366:ILE:HG13	1:B:367:GLU:N	2.11	0.65
1:B:511:ARG:C	1:B:511:ARG:HD3	2.21	0.65
1:B:730:ASP:O	1:B:734:LEU:HD22	1.96	0.65
1:A:459:VAL:CG1	1:A:471:THR:HG22	2.26	0.65
1:A:511:ARG:HD3	1:A:511:ARG:C	2.21	0.65
1:A:582:GLU:CB	1:A:583:ARG:HD3	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:903:GLU:O	1:A:907:VAL:HG23	1.97	0.65
1:B:178:LEU:CD1	1:B:179:LYS:H	2.08	0.65
1:B:179:LYS:O	1:B:180:ALA:HB2	1.96	0.65
1:B:483:THR:HG22	1:B:524:TRP:CB	2.22	0.65
1:B:771:TRP:HZ2	1:B:863:PHE:CD2	2.15	0.65
1:A:215:ARG:O	1:A:215:ARG:HG3	1.96	0.65
1:A:581:ALA:HA	1:A:586:LEU:CD2	2.18	0.65
1:A:725:ILE:HG12	1:A:728:PHE:HE1	1.61	0.65
1:A:730:ASP:O	1:A:734:LEU:HD22	1.96	0.65
1:A:810:PHE:CE1	1:A:827:LEU:HD12	2.31	0.65
1:B:68:THR:OG1	1:B:69:PRO:CD	2.42	0.65
1:B:100:TYR:HB2	1:B:264:GLY:CA	2.27	0.65
1:B:215:ARG:O	1:B:215:ARG:HG3	1.96	0.65
1:B:301:VAL:HG13	1:B:302:ILE:N	2.12	0.65
1:B:319:ILE:O	1:B:322:ILE:HG13	1.94	0.65
1:B:399:VAL:CG1	1:B:404:LEU:HD22	2.26	0.65
1:B:543:THR:C	1:B:675:ILE:HG13	2.22	0.65
1:A:176:LEU:HD23	1:A:191:ILE:HD13	1.76	0.65
1:A:195:GLU:O	1:A:197:VAL:HG13	1.96	0.65
1:A:297:LEU:O	1:A:301:VAL:HG12	1.97	0.65
1:A:301:VAL:O	1:A:305:LEU:CG	2.39	0.65
1:A:502:VAL:HG23	1:A:510:PHE:CZ	2.31	0.65
1:A:516:ALA:O	1:A:517:ARG:HB3	1.94	0.65
1:A:758:MET:HB2	1:A:761:LEU:HG	1.79	0.65
1:A:891:LYS:CA	1:A:893:PRO:HD2	2.27	0.65
1:B:201:ILE:HD13	1:B:259:VAL:HG22	1.79	0.65
1:B:217:VAL:HG11	1:B:257:PHE:CD2	2.29	0.65
1:B:224:GLN:HB2	1:B:253:ARG:CB	2.27	0.65
1:B:230:LEU:HD23	1:B:268:PHE:CZ	2.32	0.65
1:B:688:MET:O	1:B:692:VAL:HG13	1.97	0.65
1:B:698:LEU:CD2	1:B:805:GLU:CG	2.69	0.65
1:A:312:SER:HB2	1:A:710:ILE:HG21	1.67	0.65
1:A:370:ALA:HB2	1:A:681:SER:HB3	1.76	0.65
1:A:439:VAL:HG13	1:A:440:LEU:N	2.11	0.65
1:A:618:VAL:O	1:A:621:ILE:CG1	2.45	0.65
1:A:688:MET:O	1:A:691:TYR:CD2	2.46	0.65
1:A:799:LEU:HD21	1:A:842:THR:OG1	1.96	0.65
1:A:843:ILE:CG2	1:A:844:TRP:CD1	2.79	0.65
1:B:297:LEU:O	1:B:301:VAL:HG12	1.97	0.65
1:B:384:THR:HG23	1:B:386:ASN:N	2.12	0.65
1:B:415:LYS:HZ2	1:B:560:ASP:CG	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:583:ARG:HG2	1:B:584:LEU:N	2.12	0.65
1:A:68:THR:N	1:A:69:PRO:CD	2.59	0.64
1:A:96:ARG:CG	1:A:96:ARG:NH1	2.45	0.64
1:A:274:ALA:HB3	1:A:275:LEU:CD1	2.26	0.64
1:A:298:LEU:O	1:A:302:ILE:HG12	1.96	0.64
1:A:694:TYR:CD1	1:A:808:LEU:HG	2.33	0.64
1:B:312:SER:HB3	1:B:322:ILE:HG21	1.78	0.64
1:B:439:VAL:HG13	1:B:440:LEU:N	2.11	0.64
1:B:698:LEU:HD11	1:B:805:GLU:HG2	0.69	0.64
1:B:770:THR:CA	1:B:773:THR:HG22	2.27	0.64
1:B:799:LEU:HD21	1:B:842:THR:OG1	1.96	0.64
1:A:201:ILE:HD13	1:A:259:VAL:HG22	1.79	0.64
1:A:333:GLY:O	1:A:335:PRO:CD	2.45	0.64
1:A:360:VAL:HG13	1:A:664:ILE:HG13	1.80	0.64
1:A:394:TYR:C	1:A:394:TYR:HD1	2.04	0.64
1:A:742:PRO:C	1:A:744:SER:H	2.05	0.64
1:A:751:ASN:O	1:A:752:LEU:C	2.40	0.64
1:A:818:PHE:CB	1:A:875:TYR:HB3	2.12	0.64
1:B:42:ASP:O	1:B:45:ILE:CG1	2.45	0.64
1:B:79:MET:HG2	1:B:244:GLN:HB2	1.79	0.64
1:B:246:PHE:CD1	1:B:247:ALA:N	2.65	0.64
1:B:246:PHE:CE1	1:B:269:VAL:HG21	2.32	0.64
1:B:267:THR:CG2	1:B:270:GLY:CA	2.75	0.64
1:B:346:MET:CB	1:B:363:LEU:HD23	2.27	0.64
1:B:360:VAL:HG13	1:B:664:ILE:HG13	1.80	0.64
1:B:443:TYR:CE1	1:B:445:VAL:HG21	2.33	0.64
1:A:42:ASP:O	1:A:45:ILE:CG1	2.45	0.64
1:A:68:THR:OG1	1:A:69:PRO:CD	2.42	0.64
1:A:230:LEU:HD23	1:A:268:PHE:CZ	2.32	0.64
1:A:366:ILE:HG13	1:A:367:GLU:N	2.11	0.64
1:A:423:ASP:HA	1:A:426:PHE:HD1	1.63	0.64
1:A:600:PHE:CE1	1:A:907:VAL:HG21	2.25	0.64
1:A:715:ARG:NH2	1:A:794:ASP:OD2	2.31	0.64
1:B:357:LYS:HB2	1:B:668:ALA:HB2	1.78	0.64
1:B:456:LYS:NZ	1:B:476:ALA:HB2	2.01	0.64
1:B:853:SER:HA	1:B:857:VAL:HG13	1.79	0.64
1:B:891:LYS:CA	1:B:893:PRO:HD2	2.27	0.64
1:B:903:GLU:O	1:B:907:VAL:HG23	1.97	0.64
1:A:70:GLY:C	1:A:268:PHE:CZ	2.75	0.64
1:A:224:GLN:HB2	1:A:253:ARG:CB	2.27	0.64
1:A:331:ILE:O	1:A:331:ILE:HD13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:LEU:HD23	1:A:671:LEU:CB	2.26	0.64
1:A:411:ALA:HB1	1:A:515:VAL:HB	1.80	0.64
1:A:625:ARG:HB3	1:A:627:TYR:CD2	2.32	0.64
1:A:724:PHE:HB3	1:A:798:PHE:HZ	1.63	0.64
1:B:24:LYS:HE3	1:B:171:GLU:OE1	1.98	0.64
1:B:290:LEU:HD21	1:B:688:MET:CE	2.27	0.64
1:B:423:ASP:HA	1:B:426:PHE:HD1	1.63	0.64
1:B:618:VAL:O	1:B:621:ILE:CG1	2.45	0.64
1:A:195:GLU:O	1:A:197:VAL:N	2.30	0.64
1:A:246:PHE:CD1	1:A:247:ALA:N	2.66	0.64
1:A:290:LEU:HD21	1:A:688:MET:CE	2.27	0.64
1:A:582:GLU:C	1:A:583:ARG:HD3	2.22	0.64
1:A:862:ILE:CD1	1:B:309:TRP:CH2	2.79	0.64
1:B:329:ILE:CG1	1:B:706:LEU:CD1	2.68	0.64
1:B:468:GLU:C	1:B:469:ARG:HG3	2.22	0.64
1:B:484:VAL:C	1:B:524:TRP:CD1	2.76	0.64
1:B:510:PHE:CE1	1:B:512:SER:HA	2.32	0.64
1:B:694:TYR:CD1	1:B:808:LEU:HG	2.33	0.64
1:B:892:SER:HB3	1:B:896:ASN:HD21	1.63	0.64
1:A:16:ILE:HD11	1:A:667:LEU:HD13	1.71	0.64
1:A:100:TYR:HB2	1:A:264:GLY:CA	2.27	0.64
1:A:285:HIS:CE1	1:A:367:GLU:HB3	2.32	0.64
1:A:301:VAL:HG13	1:A:302:ILE:N	2.12	0.64
1:A:388:LEU:HD11	1:A:415:LYS:CE	2.28	0.64
1:A:468:GLU:C	1:A:469:ARG:HG3	2.22	0.64
1:A:694:TYR:HB2	1:A:812:THR:HG21	0.65	0.64
1:A:799:LEU:HD11	1:A:842:THR:CB	2.28	0.64
1:B:70:GLY:C	1:B:268:PHE:CZ	2.75	0.64
1:B:411:ALA:HB1	1:B:515:VAL:HB	1.80	0.64
1:B:484:VAL:N	1:B:524:TRP:HB3	2.11	0.64
1:B:570:ARG:HA	1:B:576:THR:O	1.97	0.64
1:B:582:GLU:C	1:B:583:ARG:HD3	2.22	0.64
1:B:625:ARG:HB3	1:B:627:TYR:CD2	2.32	0.64
1:B:808:LEU:C	1:B:811:ILE:HG12	2.19	0.64
1:A:74:VAL:CB	1:A:76:PRO:CG	2.63	0.64
1:A:267:THR:CG2	1:A:270:GLY:CA	2.75	0.64
1:A:443:TYR:CE1	1:A:445:VAL:HG21	2.33	0.64
1:A:566:ARG:HD2	1:A:579:TYR:CD1	2.33	0.64
1:A:616:TYR:O	1:A:619:VAL:CG2	2.46	0.64
1:A:698:LEU:HD11	1:A:805:GLU:HG2	0.69	0.64
1:B:628:LEU:C	1:B:629:VAL:CG2	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:742:PRO:C	1:B:744:SER:H	2.05	0.64
1:B:758:MET:HB2	1:B:761:LEU:HG	1.79	0.64
1:A:391:HIS:O	1:A:393:PRO:HD2	1.97	0.64
1:A:436:ALA:HB1	1:A:437:LYS:HD2	1.78	0.64
1:A:688:MET:O	1:A:692:VAL:HG13	1.97	0.64
1:B:209:ILE:HD12	1:B:248:SER:O	1.96	0.64
1:B:265:ASP:OD1	1:B:266:ASN:N	2.30	0.64
1:B:309:TRP:NE1	1:B:319:ILE:HG13	2.13	0.64
1:B:484:VAL:CG2	1:B:526:ILE:CG1	2.64	0.64
1:B:489:PRO:C	1:B:491:PRO:HD3	2.19	0.64
1:B:799:LEU:HD11	1:B:842:THR:CB	2.28	0.64
1:A:93:VAL:HG22	1:A:197:VAL:HG12	1.75	0.64
1:A:206:GLU:CB	1:A:252:LYS:HA	2.28	0.64
1:A:265:ASP:OD1	1:A:266:ASN:N	2.30	0.64
1:A:360:VAL:CG2	1:A:664:ILE:CG2	2.59	0.64
1:A:399:VAL:CG1	1:A:404:LEU:HD22	2.26	0.64
1:A:652:GLU:O	1:A:659:ARG:NH2	2.30	0.64
1:A:811:ILE:CG2	1:A:867:ILE:CD1	2.76	0.64
1:B:49:ILE:HG22	1:B:275:LEU:CB	2.24	0.64
1:B:293:ILE:HD11	1:B:756:TRP:HZ3	1.51	0.64
1:B:388:LEU:HD11	1:B:415:LYS:CE	2.28	0.64
1:B:415:LYS:HE2	1:B:511:ARG:NE	2.12	0.64
1:B:566:ARG:HD2	1:B:579:TYR:CD1	2.33	0.64
1:A:74:VAL:CG2	1:A:76:PRO:CG	2.73	0.64
1:A:543:THR:CG2	1:A:675:ILE:HG12	2.18	0.64
1:A:866:GLY:O	1:A:870:ILE:HG13	1.97	0.64
1:B:331:ILE:O	1:B:331:ILE:HD13	1.98	0.64
1:B:402:GLU:O	1:B:404:LEU:N	2.31	0.64
1:B:414:ARG:NH1	1:B:423:ASP:OD2	2.29	0.64
1:B:652:GLU:O	1:B:659:ARG:NH2	2.30	0.64
1:A:179:LYS:O	1:A:180:ALA:CB	2.46	0.63
1:A:346:MET:CB	1:A:363:LEU:HD23	2.27	0.63
1:A:384:THR:HG23	1:A:386:ASN:N	2.11	0.63
1:A:471:THR:CB	1:A:519:ARG:HA	2.28	0.63
1:A:484:VAL:C	1:A:524:TRP:CD1	2.76	0.63
1:A:539:ASP:O	1:A:543:THR:CB	2.35	0.63
1:A:583:ARG:HG2	1:A:584:LEU:N	2.12	0.63
1:A:892:SER:HB3	1:A:896:ASN:HD21	1.63	0.63
1:B:100:TYR:HB2	1:B:264:GLY:HA2	1.79	0.63
1:B:106:LYS:CE	1:B:361:GLN:HE21	2.10	0.63
1:B:333:GLY:O	1:B:335:PRO:CD	2.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:694:TYR:CE1	1:B:809:ILE:CA	2.80	0.63
1:B:811:ILE:CG2	1:B:867:ILE:CD1	2.76	0.63
1:A:179:LYS:O	1:A:180:ALA:HB2	1.96	0.63
1:A:239:LYS:HG2	1:A:243:ASP:OD1	1.97	0.63
1:A:312:SER:HB3	1:A:322:ILE:HG21	1.78	0.63
1:A:456:LYS:C	1:A:457:LYS:HG2	2.23	0.63
1:A:501:LYS:O	1:A:505:PHE:CD2	2.51	0.63
1:B:204:VAL:HG23	1:B:208:THR:HG23	1.80	0.63
1:B:375:LEU:HD13	1:B:552:LEU:CD1	2.20	0.63
1:B:436:ALA:HB1	1:B:437:LYS:HD2	1.78	0.63
1:B:501:LYS:O	1:B:505:PHE:CD2	2.51	0.63
1:A:24:LYS:HE3	1:A:171:GLU:OE1	1.98	0.63
1:A:755:LEU:HD23	1:A:756:TRP:N	2.14	0.63
1:A:892:SER:HB3	1:A:896:ASN:ND2	2.13	0.63
1:B:70:GLY:HA3	1:B:268:PHE:HE1	1.50	0.63
1:B:179:LYS:O	1:B:180:ALA:CB	2.46	0.63
1:B:239:LYS:HG2	1:B:243:ASP:OD1	1.97	0.63
1:B:406:LEU:HD11	1:B:410:LEU:HD11	1.79	0.63
1:B:616:TYR:O	1:B:619:VAL:CG2	2.46	0.63
1:B:694:TYR:HB2	1:B:812:THR:HG21	0.65	0.63
1:B:884:PHE:HA	1:B:887:LEU:HD12	1.81	0.63
1:A:106:LYS:CE	1:A:361:GLN:HE21	2.10	0.63
1:A:309:TRP:NE1	1:A:319:ILE:HG13	2.13	0.63
1:A:719:ILE:O	1:A:723:VAL:CG1	2.40	0.63
1:B:4:HIS:HE1	1:B:441:SER:OG	1.81	0.63
1:B:16:ILE:O	1:B:17:GLU:CB	2.46	0.63
1:B:183:LEU:CD2	1:B:188:LEU:HA	2.24	0.63
1:B:206:GLU:CB	1:B:252:LYS:HA	2.28	0.63
1:B:223:LEU:CD1	1:B:239:LYS:HD2	2.28	0.63
1:B:309:TRP:CB	1:B:326:THR:HG23	2.08	0.63
1:B:391:HIS:O	1:B:393:PRO:HD2	1.97	0.63
1:B:694:TYR:HD1	1:B:808:LEU:HG	1.63	0.63
1:B:751:ASN:O	1:B:752:LEU:C	2.40	0.63
1:A:66:GLU:OE1	1:A:69:PRO:HG3	1.99	0.63
1:A:93:VAL:CG2	1:A:197:VAL:HG11	2.21	0.63
1:A:100:TYR:HB2	1:A:264:GLY:HA2	1.80	0.63
1:A:223:LEU:CD1	1:A:239:LYS:HD2	2.28	0.63
1:A:246:PHE:CE1	1:A:269:VAL:HG21	2.32	0.63
1:A:683:GLN:CD	1:A:687:ARG:HH21	2.06	0.63
1:B:195:GLU:O	1:B:197:VAL:N	2.30	0.63
1:B:293:ILE:CD1	1:B:756:TRP:CD2	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:683:GLN:CD	1:B:687:ARG:HH21	2.06	0.63
1:B:892:SER:HB3	1:B:896:ASN:ND2	2.13	0.63
1:A:402:GLU:O	1:A:404:LEU:N	2.31	0.63
1:A:518:LYS:CG	1:A:519:ARG:N	2.62	0.63
1:A:619:VAL:HG13	1:A:641:SER:HB2	1.80	0.63
1:A:813:ARG:CD	1:A:820:SER:OG	2.34	0.63
1:A:859:ARG:CG	1:B:319:ILE:HD12	2.26	0.63
1:B:1:MET:H3	1:B:441:SER:HB2	1.63	0.63
1:B:285:HIS:CE1	1:B:367:GLU:HB3	2.32	0.63
1:B:286:PHE:HZ	1:B:688:MET:SD	2.21	0.63
1:B:523:SER:HA	1:B:524:TRP:CZ3	2.33	0.63
1:B:724:PHE:HB3	1:B:798:PHE:HZ	1.63	0.63
1:B:755:LEU:HD23	1:B:756:TRP:N	2.14	0.63
1:A:79:MET:HG2	1:A:244:GLN:HB2	1.79	0.63
1:A:122:GLY:N	1:A:123:PRO:HD2	2.14	0.63
1:A:648:GLY:HA3	1:A:662:ALA:HB2	1.81	0.63
1:A:697:ALA:HB3	1:A:808:LEU:CD2	2.23	0.63
1:A:698:LEU:HD11	1:A:805:GLU:HG3	1.70	0.63
1:B:66:GLU:OE1	1:B:69:PRO:HG3	1.99	0.63
1:B:715:ARG:NH2	1:B:794:ASP:OD2	2.31	0.63
1:A:16:ILE:O	1:A:17:GLU:CB	2.46	0.63
1:B:24:LYS:CG	1:B:171:GLU:CA	2.76	0.63
1:B:331:ILE:C	1:B:334:VAL:HG22	2.24	0.63
1:B:814:ALA:CB	1:B:817:PRO:HD2	2.29	0.63
1:B:866:GLY:O	1:B:870:ILE:HG13	1.97	0.63
1:A:93:VAL:O	1:A:97:ARG:CG	2.37	0.63
1:A:346:MET:SD	1:A:363:LEU:HB2	2.38	0.63
1:A:429:SER:CA	1:A:432:TYR:HD2	2.12	0.63
1:A:523:SER:HA	1:A:524:TRP:CZ3	2.33	0.63
1:A:884:PHE:HA	1:A:887:LEU:HD12	1.81	0.63
1:B:122:GLY:N	1:B:123:PRO:HD2	2.14	0.63
1:B:481:LEU:O	1:B:484:VAL:CG1	2.47	0.63
1:B:539:ASP:O	1:B:543:THR:CB	2.35	0.63
1:B:543:THR:O	1:B:675:ILE:HG13	1.98	0.63
1:B:698:LEU:HD11	1:B:805:GLU:HG3	1.71	0.63
1:A:247:ALA:CB	1:A:269:VAL:CB	2.53	0.62
1:A:286:PHE:HZ	1:A:688:MET:SD	2.21	0.62
1:A:293:ILE:HD12	1:A:756:TRP:CD2	2.25	0.62
1:A:564:ILE:O	1:A:567:GLU:HB2	1.99	0.62
1:B:93:VAL:HG21	1:B:197:VAL:CB	2.28	0.62
1:B:193:ALA:HB3	1:B:194:PRO:HD3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:THR:CB	1:B:519:ARG:HA	2.28	0.62
1:B:506:ALA:CA	1:B:509:GLY:O	2.36	0.62
1:B:581:ALA:HA	1:B:586:LEU:CD2	2.18	0.62
1:A:22:ASP:C	1:A:24:LYS:N	2.56	0.62
1:A:192:GLU:HG2	1:A:195:GLU:CB	2.29	0.62
1:A:331:ILE:C	1:A:334:VAL:HG22	2.24	0.62
1:A:338:LEU:HD23	1:A:338:LEU:C	2.24	0.62
1:A:498:TYR:OH	1:A:529:ILE:HG21	1.99	0.62
1:A:543:THR:O	1:A:675:ILE:HG13	1.98	0.62
1:A:625:ARG:HB3	1:A:627:TYR:CE2	2.34	0.62
1:A:628:LEU:C	1:A:629:VAL:CG2	2.66	0.62
1:B:374:ILE:CG2	1:B:555:LYS:HZ3	2.11	0.62
1:B:625:ARG:HB3	1:B:627:TYR:CE2	2.34	0.62
1:B:694:TYR:O	1:B:808:LEU:HD23	2.00	0.62
1:B:714:ASN:HB2	1:B:790:PHE:CZ	2.32	0.62
1:A:290:LEU:HD21	1:A:688:MET:HE1	1.81	0.62
1:A:399:VAL:HG13	1:A:487:ASP:OD2	1.98	0.62
1:A:882:VAL:C	1:A:884:PHE:H	2.06	0.62
1:B:22:ASP:C	1:B:24:LYS:N	2.56	0.62
1:B:192:GLU:HG2	1:B:195:GLU:CB	2.29	0.62
1:B:290:LEU:HD21	1:B:688:MET:HE1	1.81	0.62
1:B:511:ARG:CB	1:B:564:ILE:CD1	2.77	0.62
1:B:607:PHE:HD1	1:B:610:VAL:CG2	2.04	0.62
1:A:4:HIS:HE1	1:A:441:SER:OG	1.81	0.62
1:A:24:LYS:CG	1:A:171:GLU:CA	2.76	0.62
1:A:49:ILE:HG22	1:A:275:LEU:CB	2.24	0.62
1:A:239:LYS:CD	1:A:243:ASP:CG	2.67	0.62
1:A:458:VAL:C	1:A:459:VAL:HG23	2.24	0.62
1:A:687:ARG:HD3	1:A:738:TYR:C	2.24	0.62
1:B:458:VAL:C	1:B:459:VAL:HG23	2.24	0.62
1:B:852:THR:C	1:B:856:ALA:HB3	2.23	0.62
1:A:406:LEU:HD11	1:A:410:LEU:HD11	1.79	0.62
1:A:652:GLU:N	1:A:666:PHE:O	2.32	0.62
1:A:725:ILE:HD11	1:A:805:GLU:CD	2.24	0.62
1:B:176:LEU:HD22	1:B:191:ILE:HG12	1.80	0.62
1:B:377:SER:O	1:B:556:MET:HA	2.00	0.62
1:B:505:PHE:CB	1:B:510:PHE:CD2	2.82	0.62
1:B:671:LEU:CD1	1:B:674:ILE:HD11	2.29	0.62
1:A:383:LEU:HD12	1:A:556:MET:HE2	1.81	0.62
1:A:471:THR:HB	1:A:519:ARG:H	1.60	0.62
1:A:485:GLU:N	1:A:524:TRP:HB2	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:GLU:CB	1:A:667:LEU:HA	2.26	0.62
1:B:309:TRP:C	1:B:322:ILE:HB	2.25	0.62
1:B:372:VAL:CG1	1:B:375:LEU:HD11	2.30	0.62
1:B:456:LYS:C	1:B:457:LYS:HG2	2.23	0.62
1:B:813:ARG:CD	1:B:820:SER:OG	2.34	0.62
1:A:1:MET:C	1:A:3:ASP:H	2.06	0.62
1:A:46:ASP:C	1:A:49:ILE:HG12	2.19	0.62
1:A:176:LEU:HD22	1:A:191:ILE:HG12	1.80	0.62
1:A:391:HIS:C	1:A:393:PRO:CD	2.73	0.62
1:A:505:PHE:CB	1:A:510:PHE:CD2	2.82	0.62
1:A:694:TYR:HD1	1:A:808:LEU:HG	1.63	0.62
1:A:778:TYR:OH	1:B:310:VAL:HG11	2.00	0.62
1:B:71:GLY:HA3	1:B:230:LEU:HD11	1.81	0.62
1:B:390:LEU:HD22	1:B:532:CYS:N	2.14	0.62
1:B:391:HIS:C	1:B:393:PRO:CD	2.73	0.62
1:B:564:ILE:O	1:B:567:GLU:HB2	1.99	0.62
1:B:871:MET:C	1:B:875:TYR:CD1	2.78	0.62
1:A:112:HIS:CB	1:A:116:PHE:CD1	2.82	0.62
1:A:192:GLU:HG2	1:A:195:GLU:HB3	1.82	0.62
1:A:202:LEU:HD23	1:A:260:ILE:CG1	2.29	0.62
1:A:210:ILE:HD12	1:A:248:SER:H	1.64	0.62
1:A:375:LEU:HD11	1:A:678:LEU:HD21	1.82	0.62
1:A:819:TRP:CH2	1:B:298:LEU:HD13	2.34	0.62
1:B:315:ARG:C	1:B:316:SER:HG	2.01	0.62
1:B:375:LEU:HD11	1:B:678:LEU:HD21	1.82	0.62
1:B:566:ARG:HE	1:B:567:GLU:HA	1.65	0.62
1:B:601:VAL:HG13	1:B:602:GLU:H	1.49	0.62
1:B:697:ALA:HB1	1:B:768:VAL:HG13	1.82	0.62
1:B:796:VAL:HG12	1:B:800:GLN:HG3	1.81	0.62
1:B:803:LEU:CD2	1:B:807:TRP:CZ2	2.81	0.62
1:A:67:ALA:N	1:A:69:PRO:HD2	2.15	0.62
1:A:94:VAL:O	1:A:98:ARG:NE	2.32	0.62
1:A:331:ILE:HD13	1:A:331:ILE:C	2.25	0.62
1:A:374:ILE:CG2	1:A:555:LYS:HZ3	2.13	0.62
1:A:725:ILE:HA	1:A:728:PHE:CD1	2.35	0.62
1:A:871:MET:C	1:A:875:TYR:CD1	2.78	0.62
1:B:74:VAL:O	1:B:75:VAL:CB	2.48	0.62
1:B:694:TYR:CG	1:B:809:ILE:HA	2.35	0.62
1:A:12:LEU:N	1:A:12:LEU:HD23	2.15	0.62
1:A:330:THR:O	1:A:334:VAL:HG13	2.00	0.62
1:A:394:TYR:CZ	1:A:529:ILE:HG12	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:TYR:CG	1:A:809:ILE:HA	2.35	0.62
1:A:721:LEU:HD23	1:A:841:PHE:HE2	1.64	0.62
1:A:725:ILE:CD1	1:A:805:GLU:OE1	2.48	0.62
1:A:814:ALA:CB	1:A:817:PRO:CD	2.72	0.62
1:B:49:ILE:CG2	1:B:275:LEU:CB	2.73	0.62
1:B:536:PRO:O	1:B:537:ARG:CB	2.48	0.62
1:B:712:ILE:CG2	1:B:713:LEU:N	2.35	0.62
1:A:70:GLY:C	1:A:268:PHE:HZ	2.08	0.61
1:A:202:LEU:CD2	1:A:260:ILE:HG12	2.28	0.61
1:A:308:VAL:HG12	1:A:710:ILE:CG1	2.23	0.61
1:A:309:TRP:C	1:A:322:ILE:HB	2.25	0.61
1:A:566:ARG:HE	1:A:567:GLU:HA	1.65	0.61
1:A:694:TYR:O	1:A:808:LEU:HD23	2.00	0.61
1:B:75:VAL:H	1:B:76:PRO:CD	2.06	0.61
1:B:427:LEU:H	1:B:440:LEU:CD2	2.13	0.61
1:B:619:VAL:HG13	1:B:641:SER:HB2	1.81	0.61
1:B:725:ILE:HA	1:B:728:PHE:CD1	2.35	0.61
1:B:861:TRP:HA	1:B:864:SER:OG	2.00	0.61
1:B:882:VAL:C	1:B:884:PHE:H	2.06	0.61
1:A:415:LYS:HE2	1:A:511:ARG:NE	2.12	0.61
1:A:814:ALA:CB	1:A:817:PRO:HD2	2.29	0.61
1:B:79:MET:H	1:B:80:LEU:HD23	1.65	0.61
1:B:331:ILE:HD13	1:B:331:ILE:C	2.25	0.61
1:B:725:ILE:HD11	1:B:805:GLU:CD	2.24	0.61
1:A:204:VAL:HG23	1:A:208:THR:HG23	1.80	0.61
1:A:289:VAL:CG1	1:A:756:TRP:N	2.63	0.61
1:A:372:VAL:CG1	1:A:375:LEU:HD11	2.29	0.61
1:A:377:SER:O	1:A:556:MET:HA	2.00	0.61
1:A:511:ARG:CB	1:A:564:ILE:CD1	2.77	0.61
1:A:513:LEU:HB3	1:A:530:MET:HE3	1.82	0.61
1:A:796:VAL:HG12	1:A:800:GLN:CG	2.31	0.61
1:A:905:PHE:O	1:A:908:SER:N	2.33	0.61
1:B:132:ALA:CB	1:B:144:PHE:CB	2.56	0.61
1:B:330:THR:O	1:B:334:VAL:HG13	2.00	0.61
1:B:399:VAL:HG13	1:B:487:ASP:OD2	1.98	0.61
1:A:1:MET:H3	1:A:441:SER:HB2	1.64	0.61
1:A:79:MET:H	1:A:81:GLN:H	1.47	0.61
1:A:193:ALA:HB3	1:A:194:PRO:HD3	1.81	0.61
1:A:308:VAL:O	1:A:710:ILE:CG2	2.45	0.61
1:A:336:VAL:O	1:A:734:LEU:HD11	2.01	0.61
1:A:536:PRO:O	1:A:537:ARG:CB	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:THR:HA	1:A:663:ASP:OD2	2.00	0.61
1:A:824:SER:OG	1:A:827:LEU:HB3	2.01	0.61
1:B:202:LEU:HD23	1:B:260:ILE:CG1	2.29	0.61
1:B:317:ASN:ND2	1:B:321:GLN:NE2	2.48	0.61
1:B:338:LEU:HD23	1:B:338:LEU:C	2.24	0.61
1:B:346:MET:CG	1:B:363:LEU:CD2	2.59	0.61
1:B:385:LYS:HE2	1:B:537:ARG:HB2	1.80	0.61
1:B:394:TYR:CZ	1:B:529:ILE:HG12	2.35	0.61
1:B:415:LYS:HZ1	1:B:511:ARG:CB	2.13	0.61
1:B:498:TYR:OH	1:B:529:ILE:HG21	1.99	0.61
1:B:689:TYR:O	1:B:692:VAL:CG2	2.46	0.61
1:B:796:VAL:HG12	1:B:800:GLN:CG	2.31	0.61
1:B:811:ILE:HG23	1:B:867:ILE:CD1	2.29	0.61
1:A:71:GLY:HA3	1:A:230:LEU:HD11	1.81	0.61
1:A:705:PHE:CE1	1:A:797:LEU:HD11	2.35	0.61
1:A:719:ILE:C	1:A:723:VAL:HG13	2.24	0.61
1:B:1:MET:C	1:B:3:ASP:H	2.06	0.61
1:B:49:ILE:CD1	1:B:276:VAL:HA	2.30	0.61
1:B:70:GLY:C	1:B:268:PHE:HZ	2.08	0.61
1:B:193:ALA:N	1:B:194:PRO:HD2	2.15	0.61
1:B:204:VAL:CG1	1:B:256:ALA:HB3	2.31	0.61
1:B:383:LEU:HD12	1:B:556:MET:HE2	1.81	0.61
1:B:442:LYS:C	1:B:443:TYR:CD2	2.78	0.61
1:B:697:ALA:HB3	1:B:808:LEU:CD2	2.23	0.61
1:A:279:ALA:O	1:A:280:SER:CB	2.49	0.61
1:A:317:ASN:ND2	1:A:321:GLN:NE2	2.48	0.61
1:A:456:LYS:O	1:A:456:LYS:HG2	1.99	0.61
1:A:689:TYR:CD1	1:A:761:LEU:CD2	2.76	0.61
1:A:867:ILE:HD12	1:A:867:ILE:C	2.25	0.61
1:A:886:ASN:CA	1:A:889:HIS:ND1	2.61	0.61
1:B:94:VAL:O	1:B:98:ARG:NE	2.32	0.61
1:B:105:MET:SD	1:B:274:ALA:HA	2.40	0.61
1:B:279:ALA:O	1:B:280:SER:CB	2.49	0.61
1:B:305:LEU:CG	1:B:329:ILE:CG2	2.79	0.61
1:B:456:LYS:O	1:B:456:LYS:HG2	1.99	0.61
1:B:648:GLY:HA3	1:B:662:ALA:HB2	1.81	0.61
1:A:442:LYS:C	1:A:443:TYR:CD2	2.78	0.61
1:A:714:ASN:HB2	1:A:790:PHE:CZ	2.32	0.61
1:A:852:THR:C	1:A:856:ALA:HB3	2.23	0.61
1:B:12:LEU:N	1:B:12:LEU:HD23	2.15	0.61
1:B:37:VAL:O	1:B:38:GLU:CD	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:ILE:CG1	1:B:46:ASP:N	2.64	0.61
1:B:453:PRO:CA	1:B:592:MET:CG	2.75	0.61
1:B:470:ILE:HD11	1:B:517:ARG:CG	2.31	0.61
1:B:813:ARG:HH12	1:B:817:PRO:HB2	1.66	0.61
1:A:217:VAL:HG13	1:A:257:PHE:HB3	1.81	0.61
1:A:312:SER:OG	1:A:710:ILE:CG2	2.48	0.61
1:B:11:ALA:O	1:B:12:LEU:HB2	2.01	0.61
1:B:192:GLU:HG2	1:B:195:GLU:HB3	1.82	0.61
1:B:308:VAL:CG1	1:B:710:ILE:CG1	2.74	0.61
1:B:600:PHE:CE1	1:B:907:VAL:HG21	2.25	0.61
1:B:652:GLU:CB	1:B:667:LEU:HD12	2.30	0.61
1:A:74:VAL:O	1:A:75:VAL:CB	2.48	0.61
1:A:105:MET:SD	1:A:274:ALA:HA	2.40	0.61
1:A:146:VAL:HB	1:A:719:ILE:HG21	0.65	0.61
1:A:309:TRP:CH2	1:A:310:VAL:HB	2.23	0.61
1:A:346:MET:CG	1:A:363:LEU:CD2	2.59	0.61
1:A:385:LYS:HE2	1:A:537:ARG:HB2	1.80	0.61
1:A:415:LYS:CG	1:A:511:ARG:HE	2.13	0.61
1:A:741:ALA:HB3	1:A:742:PRO:HD3	1.83	0.61
1:A:861:TRP:HA	1:A:864:SER:OG	2.00	0.61
1:B:223:LEU:C	1:B:223:LEU:CD1	2.73	0.61
1:B:336:VAL:O	1:B:734:LEU:HD11	2.01	0.61
1:B:471:THR:OG1	1:B:519:ARG:C	2.44	0.61
1:B:513:LEU:HB3	1:B:530:MET:HE3	1.82	0.61
1:B:886:ASN:CA	1:B:889:HIS:ND1	2.61	0.61
1:A:96:ARG:HG2	1:A:96:ARG:NH1	2.03	0.61
1:A:193:ALA:N	1:A:194:PRO:HD2	2.15	0.61
1:A:305:LEU:CG	1:A:329:ILE:CG2	2.79	0.61
1:B:16:ILE:HD11	1:B:667:LEU:HD13	1.71	0.61
1:B:85:ARG:C	1:B:86:VAL:HG23	2.25	0.61
1:B:312:SER:OG	1:B:710:ILE:CG2	2.48	0.61
1:B:456:LYS:HZ3	1:B:476:ALA:HB1	1.65	0.61
1:B:696:ILE:HG23	1:B:697:ALA:N	2.16	0.61
1:B:741:ALA:HB3	1:B:742:PRO:HD3	1.83	0.61
1:B:770:THR:HA	1:B:773:THR:HG22	1.82	0.61
1:A:49:ILE:CD1	1:A:276:VAL:HA	2.31	0.60
1:A:309:TRP:HB2	1:A:322:ILE:O	2.01	0.60
1:A:453:PRO:CA	1:A:592:MET:CG	2.75	0.60
1:A:471:THR:OG1	1:A:519:ARG:C	2.44	0.60
1:A:481:LEU:O	1:A:484:VAL:CG1	2.47	0.60
1:A:600:PHE:HE1	1:A:907:VAL:HG21	1.52	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:691:TYR:CD2	1:A:692:VAL:HG13	2.36	0.60
1:A:694:TYR:CE1	1:A:809:ILE:CA	2.80	0.60
1:A:771:TRP:HH2	1:B:303:PHE:HE1	1.48	0.60
1:A:827:LEU:HD13	1:A:827:LEU:O	2.01	0.60
1:B:181:VAL:HG12	1:B:190:GLU:HG2	1.83	0.60
1:B:813:ARG:NH1	1:B:817:PRO:CB	2.63	0.60
1:B:824:SER:OG	1:B:827:LEU:HB3	2.01	0.60
1:A:66:GLU:OE1	1:A:66:GLU:HA	2.01	0.60
1:A:204:VAL:CG1	1:A:256:ALA:HB3	2.30	0.60
1:A:308:VAL:CG1	1:A:710:ILE:CG1	2.74	0.60
1:A:459:VAL:HG13	1:A:472:CYS:O	2.01	0.60
1:A:697:ALA:HB1	1:A:768:VAL:HG13	1.82	0.60
1:A:698:LEU:CD2	1:A:805:GLU:HG2	2.31	0.60
1:A:890:GLY:C	1:A:893:PRO:CD	2.74	0.60
1:B:102:LEU:O	1:B:104:GLN:N	2.34	0.60
1:B:289:VAL:CG1	1:B:756:TRP:N	2.63	0.60
1:B:687:ARG:NE	1:B:739:ASP:HA	2.16	0.60
1:A:619:VAL:HG11	1:A:641:SER:HB2	1.83	0.60
1:A:683:GLN:CD	1:A:739:ASP:HB3	2.26	0.60
1:A:687:ARG:NE	1:A:739:ASP:HA	2.16	0.60
1:A:699:SER:O	1:A:703:GLU:HG3	2.01	0.60
1:A:811:ILE:HG23	1:A:867:ILE:CD1	2.29	0.60
1:B:346:MET:SD	1:B:363:LEU:HB2	2.38	0.60
1:B:689:TYR:HE1	1:B:761:LEU:HD22	1.48	0.60
1:B:698:LEU:CD1	1:B:805:GLU:CG	2.34	0.60
1:B:862:ILE:HD11	1:B:863:PHE:HE1	1.66	0.60
1:B:867:ILE:HD12	1:B:867:ILE:C	2.25	0.60
1:A:49:ILE:CG2	1:A:275:LEU:CB	2.73	0.60
1:A:309:TRP:CD2	1:A:310:VAL:N	2.69	0.60
1:A:698:LEU:CD1	1:A:805:GLU:HA	2.31	0.60
1:A:758:MET:H	1:A:761:LEU:HD12	1.67	0.60
1:A:804:THR:HG22	1:A:807:TRP:CZ3	2.37	0.60
1:B:66:GLU:OE1	1:B:66:GLU:HA	2.01	0.60
1:B:79:MET:H	1:B:81:GLN:H	1.47	0.60
1:B:385:LYS:CE	1:B:536:PRO:O	2.43	0.60
1:B:390:LEU:CG	1:B:531:PRO:O	2.50	0.60
1:B:470:ILE:CD1	1:B:517:ARG:CZ	2.80	0.60
1:B:664:ILE:HG22	1:B:665:VAL:N	2.17	0.60
1:B:687:ARG:HD3	1:B:738:TYR:C	2.24	0.60
1:B:691:TYR:CD2	1:B:692:VAL:HG13	2.36	0.60
1:B:705:PHE:CE1	1:B:797:LEU:HD11	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:827:LEU:HD13	1:B:827:LEU:O	2.01	0.60
1:A:299:ILE:HA	1:A:302:ILE:HG12	1.83	0.60
1:A:390:LEU:HD22	1:A:532:CYS:N	2.14	0.60
1:B:27:GLU:HG2	1:B:94:VAL:HG23	1.83	0.60
1:B:97:ARG:NH1	1:B:174:LYS:HG2	2.17	0.60
1:B:443:TYR:CE1	1:B:445:VAL:CG2	2.85	0.60
1:B:459:VAL:HG13	1:B:472:CYS:O	2.01	0.60
1:B:647:THR:HA	1:B:663:ASP:OD2	2.00	0.60
1:B:688:MET:O	1:B:691:TYR:CD2	2.46	0.60
1:B:699:SER:O	1:B:703:GLU:HG3	2.01	0.60
1:B:721:LEU:HD23	1:B:841:PHE:HE2	1.64	0.60
1:B:758:MET:H	1:B:761:LEU:HD12	1.67	0.60
1:B:804:THR:HG22	1:B:807:TRP:CZ3	2.37	0.60
1:A:37:VAL:O	1:A:38:GLU:CD	2.43	0.60
1:A:309:TRP:O	1:A:322:ILE:CB	2.50	0.60
1:A:595:SER:C	1:A:597:VAL:N	2.57	0.60
1:A:652:GLU:CB	1:A:667:LEU:HD12	2.30	0.60
1:A:745:GLN:O	1:A:745:GLN:HG2	2.02	0.60
1:B:308:VAL:O	1:B:710:ILE:CG2	2.45	0.60
1:B:456:LYS:HE2	1:B:476:ALA:HB2	0.62	0.60
1:B:518:LYS:CG	1:B:519:ARG:N	2.62	0.60
1:B:683:GLN:CD	1:B:739:ASP:HB3	2.26	0.60
1:B:689:TYR:CD1	1:B:761:LEU:CD2	2.76	0.60
1:B:818:PHE:HA	1:B:875:TYR:CG	2.36	0.60
1:A:274:ALA:CA	1:A:275:LEU:HD12	2.31	0.60
1:A:385:LYS:CE	1:A:536:PRO:O	2.43	0.60
1:A:485:GLU:HB2	1:A:524:TRP:CG	2.36	0.60
1:A:516:ALA:O	1:A:517:ARG:CB	2.49	0.60
1:A:595:SER:O	1:A:597:VAL:N	2.34	0.60
1:A:796:VAL:HG12	1:A:800:GLN:HG3	1.82	0.60
1:A:813:ARG:NH1	1:A:817:PRO:CB	2.63	0.60
1:B:309:TRP:CD2	1:B:310:VAL:N	2.69	0.60
1:B:312:SER:OG	1:B:710:ILE:HG23	2.01	0.60
1:B:595:SER:O	1:B:597:VAL:N	2.34	0.60
1:B:803:LEU:O	1:B:807:TRP:NE1	2.34	0.60
1:A:293:ILE:O	1:A:297:LEU:HD23	2.02	0.60
1:A:537:ARG:CG	1:A:538:HIS:N	2.38	0.60
1:A:755:LEU:O	1:A:756:TRP:O	2.20	0.60
1:A:770:THR:HA	1:A:773:THR:HG22	1.82	0.60
1:A:771:TRP:CD1	1:A:775:THR:HG23	2.32	0.60
1:B:436:ALA:HB1	1:B:437:LYS:CD	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:719:ILE:C	1:B:723:VAL:HG13	2.24	0.60
1:B:905:PHE:O	1:B:908:SER:N	2.33	0.60
1:A:11:ALA:O	1:A:12:LEU:HB2	2.01	0.60
1:A:31:TYR:HD1	1:A:98:ARG:CB	2.04	0.60
1:A:70:GLY:HA3	1:A:268:PHE:HE1	1.50	0.60
1:A:453:PRO:HA	1:A:592:MET:CB	2.31	0.60
1:A:470:ILE:CD1	1:A:517:ARG:CZ	2.79	0.60
1:A:583:ARG:HA	1:A:603:ALA:CB	2.28	0.60
1:A:591:ASP:C	1:A:592:MET:CE	2.66	0.60
1:A:671:LEU:CD1	1:A:674:ILE:HD11	2.28	0.60
1:B:198:PRO:HD3	1:B:263:THR:OG1	2.02	0.60
1:B:217:VAL:HG13	1:B:257:PHE:HB3	1.81	0.60
1:B:299:ILE:HA	1:B:302:ILE:HG12	1.83	0.60
1:B:309:TRP:HB2	1:B:322:ILE:O	2.01	0.60
1:B:309:TRP:NE1	1:B:319:ILE:CG1	2.65	0.60
1:B:430:LEU:HA	1:B:433:TYR:HD2	1.67	0.60
1:B:516:ALA:O	1:B:517:ARG:CB	2.49	0.60
1:B:687:ARG:NH2	1:B:739:ASP:CA	2.64	0.60
1:B:698:LEU:CD2	1:B:805:GLU:HG2	2.31	0.60
1:B:811:ILE:HB	1:B:871:MET:SD	2.42	0.60
1:B:812:THR:O	1:B:813:ARG:O	2.20	0.60
1:A:27:GLU:HG2	1:A:94:VAL:HG23	1.83	0.60
1:A:198:PRO:HD3	1:A:263:THR:OG1	2.02	0.60
1:A:223:LEU:C	1:A:223:LEU:CD1	2.73	0.60
1:A:290:LEU:HD21	1:A:756:TRP:HE1	1.63	0.60
1:A:308:VAL:CG1	1:A:707:GLY:CA	2.69	0.60
1:A:390:LEU:CG	1:A:531:PRO:O	2.50	0.60
1:A:402:GLU:C	1:A:404:LEU:H	2.10	0.60
1:A:436:ALA:HB1	1:A:437:LYS:CD	2.32	0.60
1:A:443:TYR:CE1	1:A:445:VAL:CG2	2.85	0.60
1:A:511:ARG:CB	1:A:564:ILE:HD13	2.31	0.60
1:A:676:ASP:OD1	1:A:679:LYS:CE	2.50	0.60
1:A:803:LEU:CD2	1:A:807:TRP:CZ2	2.81	0.60
1:A:818:PHE:HA	1:A:875:TYR:CG	2.36	0.60
1:B:146:VAL:HB	1:B:719:ILE:HG21	0.65	0.60
1:A:45:ILE:CG1	1:A:46:ASP:N	2.64	0.59
1:A:575:GLY:O	1:A:576:THR:O	2.20	0.59
1:A:696:ILE:HG23	1:A:697:ALA:N	2.16	0.59
1:A:862:ILE:HD11	1:A:863:PHE:HE1	1.66	0.59
1:B:309:TRP:O	1:B:322:ILE:CB	2.50	0.59
1:B:462:VAL:HG23	1:B:470:ILE:CG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:485:GLU:HB2	1:B:524:TRP:CG	2.36	0.59
1:B:619:VAL:HG11	1:B:641:SER:HB2	1.83	0.59
1:B:671:LEU:O	1:B:674:ILE:HD11	2.02	0.59
1:B:890:GLY:C	1:B:893:PRO:CD	2.74	0.59
1:A:309:TRP:O	1:A:322:ILE:HB	2.02	0.59
1:A:580:ASN:O	1:A:581:ALA:CB	2.49	0.59
1:A:671:LEU:O	1:A:674:ILE:HD11	2.02	0.59
1:A:694:TYR:CE1	1:A:808:LEU:HB3	2.37	0.59
1:A:765:VAL:HG13	1:A:766:LEU:N	2.17	0.59
1:A:811:ILE:HB	1:A:871:MET:SD	2.42	0.59
1:B:260:ILE:HG21	1:B:263:THR:CG2	2.32	0.59
1:B:309:TRP:O	1:B:322:ILE:HB	2.02	0.59
1:B:580:ASN:O	1:B:581:ALA:CB	2.49	0.59
1:B:694:TYR:CE1	1:B:808:LEU:HB3	2.37	0.59
1:B:745:GLN:O	1:B:745:GLN:HG2	2.02	0.59
1:A:251:VAL:O	1:A:251:VAL:HG13	2.02	0.59
1:A:258:VAL:CG2	1:A:259:VAL:N	2.65	0.59
1:A:312:SER:OG	1:A:710:ILE:HG23	2.02	0.59
1:A:382:THR:HA	1:A:669:PRO:O	2.03	0.59
1:B:206:GLU:HB3	1:B:252:LYS:CA	2.31	0.59
1:B:308:VAL:HG12	1:B:710:ILE:CG1	2.23	0.59
1:B:402:GLU:C	1:B:404:LEU:H	2.10	0.59
1:B:575:GLY:O	1:B:576:THR:O	2.20	0.59
1:B:695:ARG:HD2	1:B:695:ARG:C	2.28	0.59
1:A:97:ARG:NH1	1:A:174:LYS:HG2	2.17	0.59
1:A:156:VAL:O	1:A:160:VAL:CG2	2.44	0.59
1:A:409:CYS:HG	1:A:439:VAL:HG22	1.66	0.59
1:A:557:LEU:HD22	1:A:631:MET:HE1	1.84	0.59
1:A:803:LEU:O	1:A:807:TRP:NE1	2.34	0.59
1:B:375:LEU:HD13	1:B:552:LEU:CG	2.33	0.59
1:B:394:TYR:CE2	1:B:529:ILE:CG1	2.86	0.59
1:B:407:THR:CG2	1:B:527:LEU:HD21	2.33	0.59
1:B:698:LEU:CD1	1:B:805:GLU:HA	2.31	0.59
1:B:737:ALA:C	1:B:738:TYR:CD1	2.81	0.59
1:B:771:TRP:CD1	1:B:775:THR:HG23	2.32	0.59
1:B:803:LEU:CG	1:B:807:TRP:CZ2	2.85	0.59
1:A:687:ARG:NH2	1:A:739:ASP:CA	2.64	0.59
1:A:796:VAL:HG21	1:A:852:THR:HB	1.83	0.59
1:B:388:LEU:CD2	1:B:415:LYS:HB2	2.30	0.59
1:B:652:GLU:CG	1:B:667:LEU:HD12	2.21	0.59
1:B:893:PRO:C	1:B:894:LYS:CG	2.62	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LEU:O	1:A:104:GLN:N	2.34	0.59
1:A:125:GLN:CG	1:A:151:LEU:CD2	2.46	0.59
1:A:132:ALA:HB1	1:A:144:PHE:CA	2.32	0.59
1:A:206:GLU:HB3	1:A:252:LYS:CA	2.31	0.59
1:A:394:TYR:CE2	1:A:529:ILE:CG1	2.86	0.59
1:A:407:THR:CG2	1:A:527:LEU:HD21	2.33	0.59
1:A:430:LEU:HA	1:A:433:TYR:HD2	1.67	0.59
1:A:695:ARG:HD2	1:A:695:ARG:C	2.28	0.59
1:B:81:GLN:O	1:B:83:ASP:N	2.36	0.59
1:B:181:VAL:C	1:B:202:LEU:HD13	2.27	0.59
1:B:529:ILE:HA	1:B:530:MET:HE2	1.84	0.59
1:B:755:LEU:O	1:B:756:TRP:O	2.20	0.59
1:B:871:MET:CB	1:B:875:TYR:CE1	2.73	0.59
1:A:122:GLY:N	1:A:123:PRO:CD	2.65	0.59
1:A:181:VAL:HG12	1:A:190:GLU:HG2	1.83	0.59
1:A:401:PRO:HD2	1:A:404:LEU:HD22	1.84	0.59
1:A:616:TYR:O	1:A:619:VAL:HG22	2.03	0.59
1:A:664:ILE:HG22	1:A:665:VAL:N	2.17	0.59
1:B:267:THR:CG2	1:B:268:PHE:N	2.65	0.59
1:B:344:THR:O	1:B:348:VAL:HG13	2.03	0.59
1:B:382:THR:HA	1:B:669:PRO:O	2.03	0.59
1:B:511:ARG:CB	1:B:564:ILE:HD13	2.31	0.59
1:B:513:LEU:HD12	1:B:530:MET:HE1	1.82	0.59
1:B:616:TYR:O	1:B:619:VAL:HG22	2.03	0.59
1:B:676:ASP:OD1	1:B:679:LYS:CE	2.50	0.59
1:A:260:ILE:HG21	1:A:263:THR:CG2	2.32	0.59
1:A:267:THR:CG2	1:A:268:PHE:N	2.65	0.59
1:A:698:LEU:N	1:A:808:LEU:CD2	2.66	0.59
1:A:779:ALA:HB1	1:A:800:GLN:HE22	1.68	0.59
1:B:122:GLY:N	1:B:123:PRO:CD	2.65	0.59
1:B:251:VAL:O	1:B:251:VAL:HG13	2.02	0.59
1:B:373:GLU:O	1:B:374:ILE:HD13	2.03	0.59
1:B:374:ILE:HG23	1:B:555:LYS:HZ3	1.67	0.59
1:B:600:PHE:HE1	1:B:907:VAL:HG21	1.52	0.59
1:B:607:PHE:CE1	1:B:610:VAL:HB	2.38	0.59
1:B:652:GLU:CB	1:B:667:LEU:HA	2.26	0.59
1:A:81:GLN:O	1:A:83:ASP:N	2.36	0.59
1:A:406:LEU:CD2	1:A:470:ILE:CG1	2.79	0.59
1:A:566:ARG:HE	1:A:567:GLU:CD	2.07	0.59
1:A:583:ARG:CB	1:A:603:ALA:CA	2.80	0.59
1:B:16:ILE:CG2	1:B:176:LEU:CD1	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:ALA:N	1:B:69:PRO:HD2	2.15	0.59
1:B:293:ILE:O	1:B:297:LEU:HD23	2.02	0.59
1:B:331:ILE:HG23	1:B:332:ILE:N	2.16	0.59
1:B:407:THR:HB	1:B:527:LEU:HD13	1.77	0.59
1:B:807:TRP:HZ2	1:B:860:ILE:CG2	2.16	0.59
1:A:183:LEU:HD21	1:A:188:LEU:CD1	2.33	0.59
1:A:384:THR:CG2	1:A:534:ASP:HB2	2.33	0.59
1:A:506:ALA:CA	1:A:509:GLY:O	2.36	0.59
1:A:607:PHE:CE1	1:A:610:VAL:HB	2.38	0.59
1:A:719:ILE:O	1:A:723:VAL:HG22	2.03	0.59
1:A:812:THR:O	1:A:813:ARG:O	2.20	0.59
1:B:9:ALA:CB	1:B:10:PRO:HD3	2.19	0.59
1:B:406:LEU:CD2	1:B:470:ILE:CG1	2.79	0.59
1:B:415:LYS:HZ1	1:B:511:ARG:HB3	1.68	0.59
1:B:541:TYR:CD1	1:B:572:LEU:O	2.56	0.59
1:B:566:ARG:HE	1:B:567:GLU:CD	2.07	0.59
1:A:79:MET:H	1:A:80:LEU:HD23	1.65	0.58
1:A:275:LEU:C	1:A:276:VAL:CG2	2.74	0.58
1:A:388:LEU:HD21	1:A:415:LYS:CB	2.29	0.58
1:A:483:THR:O	1:A:524:TRP:CD1	2.56	0.58
1:A:561:ALA:O	1:A:564:ILE:CG2	2.51	0.58
1:A:807:TRP:HZ2	1:A:860:ILE:CG2	2.16	0.58
1:B:308:VAL:CG1	1:B:707:GLY:CA	2.69	0.58
1:B:483:THR:O	1:B:524:TRP:CD1	2.56	0.58
1:B:698:LEU:N	1:B:808:LEU:CD2	2.66	0.58
1:B:779:ALA:HB1	1:B:800:GLN:HE22	1.68	0.58
1:A:373:GLU:O	1:A:374:ILE:HD13	2.03	0.58
1:A:388:LEU:CD2	1:A:415:LYS:HB2	2.30	0.58
1:B:373:GLU:C	1:B:552:LEU:HD12	2.29	0.58
1:B:384:THR:CG2	1:B:534:ASP:HB2	2.33	0.58
1:B:407:THR:CB	1:B:527:LEU:HD21	2.28	0.58
1:B:589:GLY:C	1:B:591:ASP:N	2.56	0.58
1:B:719:ILE:O	1:B:723:VAL:HG22	2.03	0.58
1:A:69:PRO:O	1:A:75:VAL:HG21	2.00	0.58
1:A:210:ILE:HD11	1:A:248:SER:OG	2.04	0.58
1:A:344:THR:O	1:A:348:VAL:HG13	2.03	0.58
1:A:462:VAL:HG23	1:A:470:ILE:CG2	2.32	0.58
1:A:698:LEU:CD1	1:A:805:GLU:CG	2.34	0.58
1:B:210:ILE:HD12	1:B:248:SER:H	1.64	0.58
1:B:406:LEU:HD21	1:B:470:ILE:CB	2.34	0.58
1:B:428:LYS:O	1:B:431:LYS:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:THR:HG1	1:B:519:ARG:C	2.11	0.58
1:B:683:GLN:NE2	1:B:743:TYR:OH	2.37	0.58
1:B:796:VAL:HG21	1:B:852:THR:HB	1.83	0.58
1:A:510:PHE:CE1	1:A:512:SER:HA	2.32	0.58
1:A:803:LEU:CG	1:A:807:TRP:CZ2	2.85	0.58
1:B:258:VAL:CG2	1:B:259:VAL:N	2.65	0.58
1:B:453:PRO:HA	1:B:592:MET:CB	2.31	0.58
1:B:679:LYS:CG	1:B:682:ARG:CZ	2.74	0.58
1:B:725:ILE:HA	1:B:728:PHE:HD1	1.68	0.58
1:B:727:ILE:O	1:B:731:VAL:HG21	2.03	0.58
1:B:811:ILE:CG2	1:B:871:MET:HG3	2.33	0.58
1:A:28:ALA:CA	1:A:170:ASP:CB	2.63	0.58
1:A:155:ALA:O	1:A:156:VAL:C	2.46	0.58
1:A:174:LYS:HD3	1:A:195:GLU:HG3	1.85	0.58
1:A:388:LEU:HD21	1:A:415:LYS:HD2	1.85	0.58
1:A:428:LYS:O	1:A:431:LYS:HB2	2.04	0.58
1:A:502:VAL:HG23	1:A:510:PHE:HZ	1.69	0.58
1:B:93:VAL:CG2	1:B:197:VAL:HG11	2.21	0.58
1:B:132:ALA:HB1	1:B:144:PHE:CA	2.32	0.58
1:B:401:PRO:HD2	1:B:404:LEU:HD22	1.84	0.58
1:A:15:ASN:C	1:A:17:GLU:H	2.11	0.58
1:A:373:GLU:C	1:A:552:LEU:HD12	2.29	0.58
1:A:388:LEU:HD23	1:A:416:LYS:CB	2.34	0.58
1:A:510:PHE:CE1	1:A:512:SER:N	2.72	0.58
1:A:541:TYR:CD1	1:A:572:LEU:O	2.56	0.58
1:A:736:ILE:HG21	1:A:738:TYR:HE1	1.67	0.58
1:B:78:ASP:HA	1:B:81:GLN:CB	2.31	0.58
1:B:429:SER:CA	1:B:432:TYR:HD2	2.12	0.58
1:A:260:ILE:HG21	1:A:263:THR:HG22	1.85	0.58
1:A:285:HIS:CG	1:A:286:PHE:N	2.60	0.58
1:A:286:PHE:CE2	1:A:290:LEU:CG	2.87	0.58
1:A:331:ILE:HG23	1:A:332:ILE:N	2.16	0.58
1:A:513:LEU:HD12	1:A:530:MET:HE1	1.82	0.58
1:A:689:TYR:O	1:A:692:VAL:CG2	2.46	0.58
1:A:869:CYS:HB2	1:B:299:ILE:HD11	1.83	0.58
1:B:210:ILE:HD11	1:B:248:SER:OG	2.04	0.58
1:B:286:PHE:CE2	1:B:290:LEU:CG	2.87	0.58
1:B:305:LEU:HB3	1:B:326:THR:HA	1.86	0.58
1:B:470:ILE:HD12	1:B:517:ARG:CZ	2.32	0.58
1:A:309:TRP:NE1	1:A:319:ILE:CG1	2.65	0.58
1:A:407:THR:HB	1:A:527:LEU:HD13	1.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:LYS:HG2	1:A:438:SER:N	2.19	0.58
1:A:578:ILE:O	1:A:578:ILE:HG13	2.03	0.58
1:A:695:ARG:HD2	1:A:695:ARG:O	2.04	0.58
1:B:183:LEU:HD21	1:B:188:LEU:CD1	2.33	0.58
1:B:239:LYS:CB	1:B:243:ASP:CG	2.76	0.58
1:B:385:LYS:CG	1:B:535:PRO:O	2.34	0.58
1:B:437:LYS:HG2	1:B:438:SER:N	2.19	0.58
1:B:679:LYS:HG2	1:B:682:ARG:HH21	1.55	0.58
1:B:818:PHE:CA	1:B:875:TYR:CB	2.81	0.58
1:B:898:LYS:O	1:B:901:SER:OG	2.20	0.58
1:A:428:LYS:HA	1:A:431:LYS:HD2	1.86	0.58
1:A:456:LYS:HE2	1:A:476:ALA:HB2	0.62	0.58
1:A:513:LEU:CG	1:A:530:MET:HE3	2.34	0.58
1:A:818:PHE:CA	1:A:875:TYR:CB	2.81	0.58
1:B:94:VAL:CG1	1:B:98:ARG:NH2	2.67	0.58
1:B:155:ALA:O	1:B:156:VAL:C	2.46	0.58
1:B:202:LEU:CD2	1:B:260:ILE:HG12	2.28	0.58
1:B:388:LEU:HD21	1:B:415:LYS:HD2	1.85	0.58
1:B:595:SER:C	1:B:597:VAL:N	2.56	0.58
1:B:664:ILE:HG22	1:B:665:VAL:H	1.69	0.58
1:B:706:LEU:HD21	1:B:717:LEU:HD13	1.79	0.58
1:B:731:VAL:CG1	1:B:732:ALA:H	2.13	0.58
1:A:141:TRP:O	1:A:141:TRP:CE3	2.57	0.58
1:A:309:TRP:CD1	1:A:322:ILE:CD1	2.86	0.58
1:A:348:VAL:HG23	1:A:349:GLY:N	2.19	0.58
1:A:406:LEU:HD21	1:A:470:ILE:CB	2.34	0.58
1:A:780:GLN:OE1	1:A:793:MET:HA	2.04	0.58
1:B:274:ALA:CA	1:B:275:LEU:HD12	2.31	0.58
1:B:309:TRP:CD1	1:B:322:ILE:CD1	2.86	0.58
1:B:324:GLU:HG3	1:B:324:GLU:O	2.02	0.58
1:B:385:LYS:HE2	1:B:537:ARG:CG	2.33	0.58
1:B:510:PHE:CE1	1:B:512:SER:N	2.72	0.58
1:B:725:ILE:C	1:B:725:ILE:CD1	2.77	0.58
1:B:765:VAL:HG13	1:B:766:LEU:N	2.17	0.58
1:A:289:VAL:HG13	1:A:756:TRP:H	1.68	0.57
1:A:305:LEU:HB3	1:A:326:THR:HA	1.86	0.57
1:A:407:THR:CB	1:A:527:LEU:CD1	2.80	0.57
1:A:728:PHE:HD2	1:A:834:VAL:HG11	1.66	0.57
1:A:737:ALA:C	1:A:738:TYR:CD1	2.81	0.57
1:A:898:LYS:O	1:A:901:SER:OG	2.20	0.57
1:B:505:PHE:C	1:B:510:PHE:CD2	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:583:ARG:HA	1:B:603:ALA:CB	2.28	0.57
1:B:612:PRO:HB3	1:B:637:ASN:HB2	1.86	0.57
1:B:694:TYR:CE1	1:B:809:ILE:CB	2.87	0.57
1:A:54:SER:HA	1:A:72:GLY:CA	2.34	0.57
1:A:93:VAL:HG21	1:A:197:VAL:CB	2.28	0.57
1:A:94:VAL:CG1	1:A:98:ARG:NH2	2.67	0.57
1:A:325:PHE:CG	1:A:710:ILE:CD1	2.77	0.57
1:B:275:LEU:C	1:B:276:VAL:CG2	2.74	0.57
1:B:561:ALA:O	1:B:564:ILE:CG2	2.51	0.57
1:B:583:ARG:CB	1:B:603:ALA:CA	2.80	0.57
1:A:85:ARG:C	1:A:86:VAL:HG23	2.25	0.57
1:A:308:VAL:HG11	1:A:329:ILE:HD11	1.85	0.57
1:A:325:PHE:HE1	1:A:709:TRP:HE1	1.31	0.57
1:A:474:LYS:HA	1:A:514:GLY:O	2.04	0.57
1:A:733:THR:CB	1:A:809:ILE:HD12	2.27	0.57
1:A:811:ILE:CG2	1:A:871:MET:HG3	2.33	0.57
1:A:912:VAL:CG1	1:A:915:GLN:HB3	2.35	0.57
1:B:23:GLU:O	1:B:27:GLU:CG	2.47	0.57
1:B:76:PRO:O	1:B:80:LEU:HD21	2.05	0.57
1:B:141:TRP:O	1:B:141:TRP:CE3	2.57	0.57
1:B:246:PHE:CG	1:B:247:ALA:N	2.72	0.57
1:B:305:LEU:HD21	1:B:329:ILE:CG2	2.31	0.57
1:B:332:ILE:HD12	1:B:702:LEU:CD2	2.20	0.57
1:B:372:VAL:O	1:B:748:VAL:HG21	2.04	0.57
1:B:388:LEU:HD23	1:B:416:LYS:CB	2.34	0.57
1:B:457:LYS:HZ1	1:B:521:GLU:HB3	1.69	0.57
1:B:541:TYR:C	1:B:544:VAL:HG22	2.28	0.57
1:B:557:LEU:HD22	1:B:631:MET:HE1	1.84	0.57
1:B:592:MET:C	1:B:594:GLY:N	2.58	0.57
1:B:860:ILE:O	1:B:864:SER:N	2.38	0.57
1:A:112:HIS:CG	1:A:113:PHE:N	2.72	0.57
1:A:384:THR:HG22	1:A:386:ASN:O	2.04	0.57
1:A:541:TYR:C	1:A:544:VAL:HG22	2.28	0.57
1:A:725:ILE:HA	1:A:728:PHE:HD1	1.68	0.57
1:A:833:LEU:O	1:A:837:LEU:HD12	2.04	0.57
1:A:870:ILE:O	1:A:874:VAL:HG23	2.04	0.57
1:B:112:HIS:CB	1:B:116:PHE:CD1	2.82	0.57
1:B:174:LYS:HD3	1:B:195:GLU:HG3	1.85	0.57
1:B:245:VAL:O	1:B:245:VAL:CG1	2.53	0.57
1:B:289:VAL:HG13	1:B:756:TRP:H	1.68	0.57
1:B:357:LYS:CD	1:B:667:LEU:HD23	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:778:TYR:CD1	1:B:782:GLU:OE2	2.57	0.57
1:B:870:ILE:O	1:B:874:VAL:HG23	2.04	0.57
1:B:894:LYS:C	1:B:896:ASN:N	2.62	0.57
1:A:97:ARG:HH12	1:A:174:LYS:HG2	1.70	0.57
1:A:309:TRP:O	1:A:322:ILE:HG21	2.05	0.57
1:A:664:ILE:HG22	1:A:665:VAL:H	1.69	0.57
1:A:778:TYR:CD1	1:A:782:GLU:OE2	2.57	0.57
1:A:860:ILE:O	1:A:864:SER:N	2.38	0.57
1:B:308:VAL:HG11	1:B:329:ILE:HD11	1.85	0.57
1:B:309:TRP:O	1:B:322:ILE:HG21	2.05	0.57
1:B:689:TYR:CE2	1:B:815:ASN:ND2	2.73	0.57
1:B:812:THR:C	1:B:813:ARG:O	2.46	0.57
1:A:22:ASP:C	1:A:24:LYS:H	2.13	0.57
1:A:202:LEU:CG	1:A:260:ILE:HD11	2.34	0.57
1:A:275:LEU:O	1:A:276:VAL:HG22	2.03	0.57
1:A:353:LEU:O	1:A:358:ALA:O	2.22	0.57
1:A:357:LYS:CD	1:A:667:LEU:HD23	2.34	0.57
1:A:689:TYR:CD2	1:A:690:ALA:N	2.73	0.57
1:A:742:PRO:C	1:A:744:SER:N	2.62	0.57
1:B:689:TYR:CD2	1:B:690:ALA:N	2.73	0.57
1:B:792:ASN:HB3	1:B:852:THR:HG23	1.85	0.57
1:A:66:GLU:OE1	1:A:69:PRO:CG	2.53	0.57
1:A:372:VAL:O	1:A:748:VAL:HG21	2.04	0.57
1:A:376:CYS:HA	1:A:555:LYS:O	2.05	0.57
1:A:386:ASN:OD1	1:A:535:PRO:CD	2.52	0.57
1:A:792:ASN:HB3	1:A:852:THR:HG23	1.86	0.57
1:A:813:ARG:CG	1:A:814:ALA:H	2.15	0.57
1:B:15:ASN:C	1:B:17:GLU:H	2.12	0.57
1:B:22:ASP:C	1:B:24:LYS:H	2.13	0.57
1:B:54:SER:HA	1:B:72:GLY:CA	2.34	0.57
1:B:97:ARG:HH12	1:B:174:LYS:HG2	1.70	0.57
1:B:724:PHE:HB3	1:B:798:PHE:CZ	2.39	0.57
1:B:895:GLY:H	1:B:898:LYS:CG	2.18	0.57
1:A:76:PRO:O	1:A:80:LEU:HD21	2.04	0.57
1:A:285:HIS:O	1:A:288:GLU:N	2.38	0.57
1:A:305:LEU:HD21	1:A:329:ILE:CG2	2.31	0.57
1:A:523:SER:CA	1:A:524:TRP:CE3	2.82	0.57
1:A:725:ILE:C	1:A:725:ILE:CD1	2.77	0.57
1:B:348:VAL:HG23	1:B:349:GLY:N	2.19	0.57
1:B:372:VAL:CG1	1:B:375:LEU:CD1	2.83	0.57
1:B:386:ASN:OD1	1:B:535:PRO:CD	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:VAL:HG23	1:A:147:ILE:N	2.20	0.57
1:A:150:LEU:CD2	1:A:723:VAL:HG12	2.26	0.57
1:A:260:ILE:HG22	1:A:263:THR:HG23	1.87	0.57
1:A:385:LYS:HE2	1:A:537:ARG:CG	2.33	0.57
1:A:443:TYR:HD1	1:A:445:VAL:CG2	1.96	0.57
1:A:529:ILE:HA	1:A:530:MET:HE2	1.85	0.57
1:A:566:ARG:HA	1:A:585:GLY:C	2.29	0.57
1:A:689:TYR:CE2	1:A:815:ASN:ND2	2.73	0.57
1:A:689:TYR:HE1	1:A:761:LEU:HD22	1.48	0.57
1:A:691:TYR:CE2	1:A:692:VAL:CG1	2.87	0.57
1:A:724:PHE:HB3	1:A:798:PHE:CZ	2.39	0.57
1:A:736:ILE:HG22	1:A:738:TYR:HE1	1.47	0.57
1:B:94:VAL:HG22	1:B:98:ARG:HE	1.70	0.57
1:B:102:LEU:HD23	1:B:194:PRO:HG3	1.87	0.57
1:B:215:ARG:CD	1:B:215:ARG:O	2.53	0.57
1:B:376:CYS:HA	1:B:555:LYS:O	2.05	0.57
1:B:415:LYS:NZ	1:B:511:ARG:HB2	2.16	0.57
1:B:474:LYS:HA	1:B:514:GLY:O	2.04	0.57
1:B:513:LEU:CG	1:B:530:MET:HE3	2.34	0.57
1:B:578:ILE:HG13	1:B:578:ILE:O	2.04	0.57
1:B:780:GLN:OE1	1:B:793:MET:HA	2.04	0.57
1:A:324:GLU:O	1:A:324:GLU:HG3	2.02	0.57
1:A:721:LEU:CD2	1:A:841:PHE:CD2	2.88	0.57
1:A:728:PHE:CE1	1:A:729:ALA:HB2	2.39	0.57
1:A:812:THR:C	1:A:813:ARG:O	2.46	0.57
1:B:13:SER:O	1:B:13:SER:OG	2.21	0.57
1:B:66:GLU:OE1	1:B:69:PRO:CG	2.53	0.57
1:B:407:THR:CB	1:B:527:LEU:CD1	2.80	0.57
1:B:728:PHE:CE1	1:B:729:ALA:HB2	2.39	0.57
1:B:737:ALA:O	1:B:738:TYR:CG	2.58	0.57
1:B:779:ALA:HB1	1:B:800:GLN:NE2	2.20	0.57
1:B:912:VAL:CG1	1:B:915:GLN:HB3	2.35	0.57
1:A:94:VAL:HG22	1:A:98:ARG:HE	1.70	0.56
1:A:196:VAL:CG2	1:A:196:VAL:O	2.52	0.56
1:A:241:LYS:O	1:A:243:ASP:N	2.37	0.56
1:A:245:VAL:O	1:A:245:VAL:CG1	2.53	0.56
1:A:407:THR:CB	1:A:527:LEU:HD21	2.28	0.56
1:A:456:LYS:HZ3	1:A:476:ALA:HB1	1.68	0.56
1:A:462:VAL:HG23	1:A:470:ILE:HG23	1.87	0.56
1:A:498:TYR:CZ	1:A:529:ILE:HG21	2.40	0.56
1:A:557:LEU:CA	1:A:607:PHE:CE2	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:611:PHE:CB	1:A:612:PRO:CD	2.57	0.56
1:A:679:LYS:CG	1:A:682:ARG:CZ	2.73	0.56
1:A:894:LYS:C	1:A:896:ASN:N	2.62	0.56
1:B:691:TYR:CE2	1:B:692:VAL:CG1	2.88	0.56
1:B:813:ARG:CG	1:B:814:ALA:H	2.15	0.56
1:B:833:LEU:O	1:B:837:LEU:HD12	2.04	0.56
1:A:78:ASP:HA	1:A:81:GLN:CB	2.31	0.56
1:A:622:LEU:HG	1:A:627:TYR:HB2	1.87	0.56
1:A:727:ILE:O	1:A:731:VAL:HG21	2.03	0.56
1:A:895:GLY:H	1:A:898:LYS:CG	2.18	0.56
1:B:24:LYS:HG3	1:B:171:GLU:HG2	1.86	0.56
1:B:49:ILE:HD12	1:B:276:VAL:HG22	1.87	0.56
1:B:112:HIS:CG	1:B:113:PHE:N	2.72	0.56
1:B:146:VAL:HG23	1:B:147:ILE:N	2.20	0.56
1:B:241:LYS:O	1:B:243:ASP:N	2.37	0.56
1:B:383:LEU:CD1	1:B:556:MET:CE	2.83	0.56
1:B:384:THR:HG22	1:B:386:ASN:O	2.04	0.56
1:B:409:CYS:SG	1:B:439:VAL:CG2	2.84	0.56
1:B:652:GLU:N	1:B:666:PHE:O	2.32	0.56
1:B:695:ARG:HD2	1:B:695:ARG:O	2.04	0.56
1:B:721:LEU:CD2	1:B:841:PHE:CD2	2.88	0.56
1:B:778:TYR:O	1:B:778:TYR:CG	2.59	0.56
1:A:102:LEU:HD23	1:A:194:PRO:HG3	1.87	0.56
1:A:193:ALA:N	1:A:194:PRO:CD	2.69	0.56
1:A:201:ILE:CD1	1:A:259:VAL:HG22	2.36	0.56
1:A:304:THR:O	1:A:308:VAL:HG23	2.04	0.56
1:A:372:VAL:HG11	1:A:375:LEU:CD1	2.35	0.56
1:A:372:VAL:CG1	1:A:375:LEU:CD1	2.83	0.56
1:A:399:VAL:HB	1:A:401:PRO:HD2	1.86	0.56
1:A:411:ALA:CB	1:A:515:VAL:HB	2.35	0.56
1:A:517:ARG:CG	1:A:517:ARG:NH1	2.58	0.56
1:A:557:LEU:CD2	1:A:631:MET:HE1	2.35	0.56
1:A:608:ALA:O	1:A:609:GLU:HB3	2.05	0.56
1:A:612:PRO:HB3	1:A:637:ASN:HB2	1.86	0.56
1:A:778:TYR:O	1:A:778:TYR:CG	2.59	0.56
1:A:819:TRP:O	1:A:819:TRP:HD1	1.87	0.56
1:A:863:PHE:C	1:A:865:PHE:H	2.12	0.56
1:A:912:VAL:CG1	1:A:915:GLN:CB	2.82	0.56
1:B:112:HIS:CG	1:B:113:PHE:H	2.23	0.56
1:B:210:ILE:CG1	1:B:245:VAL:HG23	2.30	0.56
1:B:290:LEU:HD21	1:B:756:TRP:HE1	1.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:LEU:HD21	1:B:415:LYS:CB	2.29	0.56
1:B:415:LYS:HD3	1:B:559:GLY:C	2.29	0.56
1:B:420:ASP:CG	1:B:421:ALA:N	2.54	0.56
1:B:462:VAL:HG23	1:B:470:ILE:HG23	1.87	0.56
1:B:498:TYR:CZ	1:B:529:ILE:HG21	2.40	0.56
1:A:214:GLY:O	1:A:245:VAL:N	2.29	0.56
1:A:407:THR:HB	1:A:527:LEU:CG	2.33	0.56
1:A:712:ILE:CG2	1:A:713:LEU:N	2.35	0.56
1:A:779:ALA:HB1	1:A:800:GLN:NE2	2.20	0.56
1:B:54:SER:OG	1:B:55:HIS:N	2.36	0.56
1:B:150:LEU:CD2	1:B:723:VAL:HG12	2.26	0.56
1:B:210:ILE:HG22	1:B:212:ALA:O	2.06	0.56
1:B:353:LEU:O	1:B:358:ALA:O	2.22	0.56
1:B:379:LYS:HD2	1:B:568:THR:HG21	1.87	0.56
1:B:411:ALA:CB	1:B:515:VAL:HB	2.35	0.56
1:B:428:LYS:HA	1:B:431:LYS:HD2	1.86	0.56
1:B:533:MET:HE2	1:B:533:MET:N	2.20	0.56
1:B:912:VAL:CG1	1:B:915:GLN:CB	2.82	0.56
1:A:165:ALA:HA	1:A:168:ILE:HD12	1.87	0.56
1:A:470:ILE:HD11	1:A:517:ARG:CG	2.31	0.56
1:A:694:TYR:CE1	1:A:809:ILE:CB	2.87	0.56
1:A:770:THR:HA	1:A:773:THR:HG21	1.88	0.56
1:B:69:PRO:O	1:B:75:VAL:HG21	2.00	0.56
1:B:459:VAL:HG11	1:B:471:THR:CG2	2.35	0.56
1:B:557:LEU:CA	1:B:607:PHE:CE2	2.88	0.56
1:B:566:ARG:HA	1:B:585:GLY:C	2.29	0.56
1:A:80:LEU:CD1	1:A:240:HIS:HB2	2.35	0.56
1:A:112:HIS:CG	1:A:113:PHE:H	2.24	0.56
1:A:224:GLN:CB	1:A:253:ARG:HD2	2.36	0.56
1:A:383:LEU:CD1	1:A:556:MET:CE	2.83	0.56
1:A:427:LEU:H	1:A:440:LEU:CD2	2.13	0.56
1:A:430:LEU:HA	1:A:433:TYR:CD2	2.40	0.56
1:A:632:THR:O	1:A:633:GLY:O	2.24	0.56
1:A:652:GLU:CG	1:A:667:LEU:HD12	2.21	0.56
1:B:125:GLN:HA	1:B:151:LEU:HD11	1.87	0.56
1:B:260:ILE:HG22	1:B:263:THR:HG23	1.87	0.56
1:B:304:THR:O	1:B:308:VAL:HG23	2.04	0.56
1:B:505:PHE:C	1:B:510:PHE:CB	2.74	0.56
1:B:581:ALA:HB2	1:B:586:LEU:HD23	1.88	0.56
1:B:622:LEU:HG	1:B:627:TYR:HB2	1.87	0.56
1:B:737:ALA:O	1:B:738:TYR:CD1	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:810:PHE:CE2	1:B:823:PRO:HG2	2.41	0.56
1:B:863:PHE:C	1:B:865:PHE:H	2.12	0.56
1:A:62:GLU:OE1	1:A:64:GLU:OE2	2.24	0.56
1:A:112:HIS:CD2	1:A:113:PHE:N	2.74	0.56
1:A:125:GLN:HA	1:A:151:LEU:HD11	1.87	0.56
1:A:442:LYS:CG	1:A:443:TYR:CA	2.80	0.56
1:A:517:ARG:NH1	1:A:525:GLU:OE1	2.39	0.56
1:A:771:TRP:O	1:A:775:THR:HG23	2.06	0.56
1:B:193:ALA:N	1:B:194:PRO:CD	2.69	0.56
1:B:224:GLN:CB	1:B:253:ARG:HD2	2.36	0.56
1:B:725:ILE:CD1	1:B:805:GLU:OE1	2.48	0.56
1:A:16:ILE:CG2	1:A:176:LEU:CD1	2.81	0.56
1:A:24:LYS:HG3	1:A:171:GLU:HG2	1.86	0.56
1:A:68:THR:HG1	1:A:69:PRO:HD3	1.71	0.56
1:A:470:ILE:HD12	1:A:517:ARG:HE	1.61	0.56
1:A:481:LEU:CD1	1:A:498:TYR:CZ	2.89	0.56
1:A:650:ALA:HB3	1:A:659:ARG:CG	2.32	0.56
1:A:654:SER:OG	1:A:655:SER:N	2.34	0.56
1:A:683:GLN:NE2	1:A:743:TYR:OH	2.37	0.56
1:A:778:TYR:CD1	1:A:778:TYR:O	2.59	0.56
1:A:782:GLU:CG	1:A:783:ASN:N	2.48	0.56
1:B:264:GLY:O	1:B:267:THR:CB	2.54	0.56
1:B:372:VAL:HG11	1:B:375:LEU:CD1	2.35	0.56
1:B:488:HIS:ND1	1:B:489:PRO:HD2	2.21	0.56
1:B:632:THR:O	1:B:633:GLY:O	2.24	0.56
1:B:693:VAL:HG13	1:B:694:TYR:N	2.21	0.56
1:B:770:THR:HA	1:B:773:THR:HG21	1.88	0.56
1:B:778:TYR:CD1	1:B:778:TYR:O	2.59	0.56
1:B:808:LEU:HD12	1:B:811:ILE:HD11	0.56	0.56
1:B:814:ALA:CB	1:B:817:PRO:CD	2.72	0.56
1:A:49:ILE:HD12	1:A:276:VAL:HG22	1.87	0.56
1:A:49:ILE:HG13	1:A:50:GLU:N	2.21	0.56
1:A:181:VAL:HG21	1:A:203:GLN:HB3	1.87	0.56
1:A:429:SER:O	1:A:433:TYR:CD2	2.59	0.56
1:A:616:TYR:CD2	1:A:617:ASN:N	2.74	0.56
1:A:737:ALA:O	1:A:738:TYR:CD1	2.58	0.56
1:A:768:VAL:HG21	1:A:811:ILE:HD13	1.83	0.56
1:A:808:LEU:HD12	1:A:811:ILE:HD11	0.56	0.56
1:A:813:ARG:HH12	1:A:817:PRO:HB2	1.66	0.56
1:B:62:GLU:OE1	1:B:64:GLU:OE2	2.24	0.56
1:B:112:HIS:CD2	1:B:113:PHE:N	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:PHE:O	1:B:123:PRO:HG2	2.06	0.56
1:B:356:LYS:C	1:B:358:ALA:H	2.13	0.56
1:B:413:SER:C	1:B:414:ARG:HG2	2.31	0.56
1:B:442:LYS:CG	1:B:443:TYR:CA	2.79	0.56
1:B:496:GLN:O	1:B:500:ASN:ND2	2.39	0.56
1:B:557:LEU:CD2	1:B:631:MET:HE1	2.35	0.56
1:B:608:ALA:O	1:B:609:GLU:HB3	2.05	0.56
1:B:616:TYR:CD2	1:B:617:ASN:N	2.74	0.56
1:A:175:THR:O	1:A:192:GLU:CD	2.49	0.56
1:A:191:ILE:CD1	1:A:195:GLU:HB3	2.32	0.56
1:A:210:ILE:HG22	1:A:212:ALA:O	2.06	0.56
1:A:546:GLU:CD	1:A:679:LYS:NZ	2.64	0.56
1:A:713:LEU:C	1:A:714:ASN:CG	2.69	0.56
1:A:737:ALA:O	1:A:738:TYR:CG	2.58	0.56
1:A:859:ARG:HD2	1:B:319:ILE:HD12	1.88	0.56
1:B:183:LEU:HB2	1:B:201:ILE:HB	1.88	0.56
1:B:481:LEU:CD1	1:B:498:TYR:CZ	2.89	0.56
1:A:146:VAL:CB	1:A:719:ILE:CG2	2.39	0.55
1:A:246:PHE:CG	1:A:247:ALA:N	2.72	0.55
1:A:264:GLY:O	1:A:267:THR:CB	2.54	0.55
1:A:485:GLU:H	1:A:524:TRP:C	2.15	0.55
1:B:385:LYS:CE	1:B:537:ARG:CG	2.84	0.55
1:B:430:LEU:HA	1:B:433:TYR:CD2	2.40	0.55
1:B:547:ALA:HB2	1:B:675:ILE:HD12	1.88	0.55
1:B:683:GLN:C	1:B:687:ARG:HE	2.14	0.55
1:A:183:LEU:HB2	1:A:201:ILE:HB	1.88	0.55
1:A:264:GLY:O	1:A:267:THR:HB	2.06	0.55
1:A:309:TRP:CE3	1:A:310:VAL:CA	2.90	0.55
1:A:415:LYS:HD3	1:A:559:GLY:C	2.29	0.55
1:A:459:VAL:HG11	1:A:471:THR:CG2	2.35	0.55
1:A:601:VAL:C	1:A:603:ALA:H	2.14	0.55
1:A:706:LEU:HD21	1:A:717:LEU:HD13	1.79	0.55
1:A:904:ASP:O	1:A:908:SER:N	2.39	0.55
1:B:156:VAL:O	1:B:160:VAL:CG2	2.44	0.55
1:B:165:ALA:HA	1:B:168:ILE:HD12	1.87	0.55
1:B:233:GLU:HB2	1:B:235:LEU:HD13	1.86	0.55
1:B:260:ILE:HG21	1:B:263:THR:HG22	1.85	0.55
1:B:453:PRO:CB	1:B:592:MET:HB2	2.32	0.55
1:B:546:GLU:CD	1:B:679:LYS:NZ	2.64	0.55
1:B:733:THR:CB	1:B:809:ILE:HD12	2.27	0.55
1:A:34:LYS:HB3	1:A:35:PRO:CD	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:PHE:O	1:A:123:PRO:HG2	2.06	0.55
1:A:125:GLN:C	1:A:151:LEU:CD1	2.78	0.55
1:A:215:ARG:CD	1:A:215:ARG:O	2.53	0.55
1:A:286:PHE:CE2	1:A:290:LEU:CD2	2.88	0.55
1:B:80:LEU:CD1	1:B:240:HIS:HB2	2.35	0.55
1:B:196:VAL:CG2	1:B:196:VAL:O	2.52	0.55
1:B:713:LEU:C	1:B:714:ASN:CG	2.69	0.55
1:A:233:GLU:HB2	1:A:235:LEU:HD13	1.86	0.55
1:A:304:THR:OG1	1:A:305:LEU:CD2	2.54	0.55
1:A:462:VAL:CG2	1:A:470:ILE:HG23	2.36	0.55
1:A:488:HIS:ND1	1:A:489:PRO:HD2	2.21	0.55
1:A:489:PRO:C	1:A:491:PRO:HD3	2.19	0.55
1:A:592:MET:C	1:A:594:GLY:N	2.58	0.55
1:A:610:VAL:HG12	1:A:611:PHE:N	2.22	0.55
1:B:125:GLN:CD	1:B:151:LEU:HD22	2.29	0.55
1:B:201:ILE:CD1	1:B:259:VAL:HG22	2.36	0.55
1:B:429:SER:O	1:B:433:TYR:CD2	2.59	0.55
1:B:594:GLY:O	1:B:597:VAL:N	2.40	0.55
1:B:610:VAL:HG12	1:B:611:PHE:N	2.22	0.55
1:B:728:PHE:HD2	1:B:834:VAL:HG11	1.66	0.55
1:A:70:GLY:CA	1:A:268:PHE:HE1	2.13	0.55
1:A:220:ASP:OD2	1:A:254:GLY:HA2	2.07	0.55
1:A:356:LYS:C	1:A:358:ALA:H	2.13	0.55
1:A:375:LEU:HD13	1:A:552:LEU:CG	2.33	0.55
1:A:379:LYS:HD2	1:A:568:THR:HG21	1.87	0.55
1:A:518:LYS:HD3	1:A:523:SER:CB	2.08	0.55
1:A:533:MET:HE2	1:A:533:MET:N	2.20	0.55
1:A:683:GLN:C	1:A:687:ARG:HE	2.14	0.55
1:A:698:LEU:HD22	1:A:805:GLU:CB	2.30	0.55
1:B:246:PHE:CE1	1:B:248:SER:CA	2.90	0.55
1:B:407:THR:HB	1:B:527:LEU:CG	2.33	0.55
1:B:485:GLU:H	1:B:524:TRP:C	2.14	0.55
1:B:687:ARG:NH2	1:B:739:ASP:HB3	2.21	0.55
1:B:705:PHE:CE2	1:B:717:LEU:HD21	2.41	0.55
1:A:181:VAL:C	1:A:202:LEU:HD13	2.27	0.55
1:A:325:PHE:CD1	1:A:710:ILE:CD1	2.90	0.55
1:A:505:PHE:C	1:A:510:PHE:CD2	2.82	0.55
1:B:175:THR:O	1:B:192:GLU:CD	2.49	0.55
1:B:264:GLY:O	1:B:267:THR:HB	2.06	0.55
1:B:385:LYS:NZ	1:B:537:ARG:HG3	2.22	0.55
1:B:412:ALA:O	1:B:413:SER:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:ARG:NH1	1:B:525:GLU:OE1	2.39	0.55
1:B:564:ILE:HG23	1:B:565:ALA:N	2.21	0.55
1:B:601:VAL:C	1:B:603:ALA:H	2.14	0.55
1:B:615:LYS:CA	1:B:618:VAL:HG22	2.36	0.55
1:B:864:SER:O	1:B:868:PHE:HE1	1.89	0.55
1:A:323:LEU:O	1:A:327:LEU:HD13	2.07	0.55
1:A:412:ALA:O	1:A:413:SER:O	2.25	0.55
1:A:413:SER:C	1:A:414:ARG:HG2	2.31	0.55
1:A:564:ILE:HG23	1:A:565:ALA:N	2.21	0.55
1:A:566:ARG:NH1	1:A:579:TYR:CD1	2.54	0.55
1:A:589:GLY:C	1:A:591:ASP:N	2.56	0.55
1:A:615:LYS:CA	1:A:618:VAL:HG22	2.36	0.55
1:A:779:ALA:CB	1:A:800:GLN:OE1	2.55	0.55
1:B:220:ASP:OD2	1:B:254:GLY:HA2	2.07	0.55
1:B:309:TRP:CE3	1:B:310:VAL:CA	2.90	0.55
1:B:323:LEU:O	1:B:327:LEU:HD13	2.07	0.55
1:B:771:TRP:O	1:B:775:THR:HG23	2.06	0.55
1:B:904:ASP:O	1:B:908:SER:N	2.39	0.55
1:A:239:LYS:CB	1:A:243:ASP:CG	2.76	0.55
1:A:385:LYS:HZ1	1:A:537:ARG:HA	1.71	0.55
1:A:496:GLN:O	1:A:500:ASN:ND2	2.39	0.55
1:A:810:PHE:CE2	1:A:823:PRO:HG2	2.41	0.55
1:B:49:ILE:HG13	1:B:50:GLU:N	2.21	0.55
1:B:94:VAL:HG22	1:B:98:ARG:CZ	2.36	0.55
1:B:153:LEU:O	1:B:157:VAL:HG23	2.07	0.55
1:B:181:VAL:HG21	1:B:203:GLN:HB3	1.87	0.55
1:B:569:SER:CB	1:B:585:GLY:HA2	2.37	0.55
1:B:779:ALA:CB	1:B:800:GLN:OE1	2.55	0.55
1:A:246:PHE:CE1	1:A:248:SER:CA	2.90	0.55
1:A:374:ILE:HG23	1:A:555:LYS:HZ3	1.69	0.55
1:A:385:LYS:NZ	1:A:537:ARG:HG3	2.22	0.55
1:A:569:SER:CB	1:A:585:GLY:HA2	2.37	0.55
1:A:783:ASN:O	1:B:313:PHE:CE2	2.60	0.55
1:B:89:THR:C	1:B:91:GLU:N	2.65	0.55
1:B:246:PHE:CD1	1:B:268:PHE:HD2	2.22	0.55
1:B:270:GLY:O	1:B:274:ALA:HB3	2.07	0.55
1:B:607:PHE:CE1	1:B:610:VAL:CB	2.90	0.55
1:B:811:ILE:O	1:B:875:TYR:OH	2.25	0.55
1:A:153:LEU:O	1:A:157:VAL:HG23	2.06	0.55
1:A:175:THR:O	1:A:192:GLU:OE1	2.25	0.55
1:A:270:GLY:O	1:A:274:ALA:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:ILE:CG1	1:A:706:LEU:CD1	2.68	0.55
1:A:594:GLY:O	1:A:597:VAL:N	2.40	0.55
1:A:756:TRP:O	1:A:758:MET:N	2.40	0.55
1:A:811:ILE:O	1:A:875:TYR:OH	2.25	0.55
1:B:73:ARG:O	1:B:74:VAL:C	2.48	0.55
1:B:119:PHE:C	1:B:123:PRO:HD3	2.31	0.55
1:B:365:ALA:HB1	1:B:663:ASP:HB3	1.89	0.55
1:A:24:LYS:NZ	1:A:171:GLU:HB3	2.19	0.54
1:A:69:PRO:O	1:A:75:VAL:HG23	2.01	0.54
1:A:79:MET:CG	1:A:244:GLN:HB2	2.36	0.54
1:A:94:VAL:HG22	1:A:98:ARG:CZ	2.36	0.54
1:A:332:ILE:HG23	1:A:333:GLY:N	2.22	0.54
1:A:378:ASP:O	1:A:382:THR:HB	2.06	0.54
1:A:385:LYS:CE	1:A:537:ARG:CG	2.84	0.54
1:A:650:ALA:CB	1:A:659:ARG:HG2	2.33	0.54
1:A:693:VAL:HG13	1:A:694:TYR:N	2.21	0.54
1:A:871:MET:CB	1:A:875:TYR:CE1	2.73	0.54
1:B:78:ASP:CB	1:B:81:GLN:CG	2.76	0.54
1:B:175:THR:O	1:B:192:GLU:OE1	2.25	0.54
1:B:736:ILE:HG21	1:B:738:TYR:HE1	1.67	0.54
1:B:795:GLU:OE1	1:B:850:SER:HA	2.07	0.54
1:A:329:ILE:HG23	1:A:703:GLU:HA	1.89	0.54
1:A:385:LYS:HE3	1:A:537:ARG:CA	2.37	0.54
1:A:483:THR:CG2	1:A:524:TRP:HB3	2.25	0.54
1:A:488:HIS:CG	1:A:489:PRO:CD	2.86	0.54
1:A:687:ARG:NH2	1:A:739:ASP:HB3	2.21	0.54
1:A:705:PHE:CE2	1:A:717:LEU:HD21	2.41	0.54
1:A:795:GLU:OE1	1:A:850:SER:HA	2.07	0.54
1:A:864:SER:O	1:A:868:PHE:HE1	1.89	0.54
1:B:88:LEU:HB3	1:B:198:PRO:HG2	1.89	0.54
1:B:286:PHE:CE2	1:B:290:LEU:CD2	2.88	0.54
1:B:325:PHE:CD1	1:B:710:ILE:CD1	2.90	0.54
1:B:462:VAL:CG2	1:B:470:ILE:HG23	2.36	0.54
1:B:682:ARG:HH11	1:B:744:SER:CB	2.12	0.54
1:A:289:VAL:HG12	1:A:756:TRP:HB2	0.54	0.54
1:A:592:MET:CB	1:A:593:PRO:HD2	2.33	0.54
1:A:862:ILE:HG13	1:A:863:PHE:N	2.22	0.54
1:A:865:PHE:CE2	1:B:302:ILE:HD12	2.42	0.54
1:B:224:GLN:HG3	1:B:253:ARG:CD	2.37	0.54
1:B:470:ILE:CD1	1:B:517:ARG:CG	2.85	0.54
1:B:650:ALA:HB3	1:B:659:ARG:CG	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:756:TRP:O	1:B:758:MET:N	2.40	0.54
1:B:768:VAL:HG21	1:B:811:ILE:HD13	1.83	0.54
1:B:862:ILE:HG13	1:B:863:PHE:N	2.22	0.54
1:A:24:LYS:CG	1:A:25:ALA:N	2.70	0.54
1:A:600:PHE:CD1	1:A:907:VAL:HG22	2.36	0.54
1:A:724:PHE:O	1:A:727:ILE:CG1	2.38	0.54
1:B:79:MET:CG	1:B:244:GLN:HB2	2.36	0.54
1:B:309:TRP:HD1	1:B:323:LEU:N	2.05	0.54
1:B:309:TRP:O	1:B:322:ILE:CG2	2.56	0.54
1:B:385:LYS:HE3	1:B:537:ARG:CA	2.37	0.54
1:B:439:VAL:CG1	1:B:440:LEU:H	2.21	0.54
1:B:648:GLY:CA	1:B:662:ALA:HB1	2.35	0.54
1:A:309:TRP:HD1	1:A:323:LEU:N	2.05	0.54
1:A:607:PHE:CE1	1:A:610:VAL:CB	2.90	0.54
1:B:230:LEU:CD2	1:B:268:PHE:HE2	2.03	0.54
1:B:268:PHE:HD2	1:B:269:VAL:HG23	1.72	0.54
1:B:383:LEU:HD12	1:B:556:MET:CE	2.37	0.54
1:B:483:THR:CG2	1:B:524:TRP:HB3	2.25	0.54
1:B:532:CYS:SG	1:B:533:MET:N	2.81	0.54
1:B:700:ILE:HA	1:B:703:GLU:CD	2.33	0.54
1:B:801:ILE:O	1:B:805:GLU:HG3	2.07	0.54
1:B:813:ARG:HG2	1:B:814:ALA:N	2.21	0.54
1:A:88:LEU:HB3	1:A:198:PRO:HG2	1.89	0.54
1:A:286:PHE:O	1:A:290:LEU:HG	2.08	0.54
1:A:309:TRP:O	1:A:322:ILE:CG2	2.56	0.54
1:A:338:LEU:N	1:A:339:PRO:HD2	2.22	0.54
1:A:570:ARG:HB2	1:A:576:THR:O	2.07	0.54
1:A:671:LEU:CA	1:A:674:ILE:CD1	2.84	0.54
1:A:698:LEU:H	1:A:808:LEU:CD2	2.21	0.54
1:B:69:PRO:O	1:B:75:VAL:HG23	2.01	0.54
1:B:275:LEU:O	1:B:276:VAL:HG22	2.03	0.54
1:B:566:ARG:NH1	1:B:579:TYR:CD1	2.54	0.54
1:A:119:PHE:C	1:A:123:PRO:HD3	2.31	0.54
1:A:224:GLN:HG3	1:A:253:ARG:CD	2.37	0.54
1:A:375:LEU:N	1:A:553:SER:O	2.36	0.54
1:A:409:CYS:SG	1:A:439:VAL:CG2	2.84	0.54
1:A:505:PHE:C	1:A:510:PHE:CB	2.74	0.54
1:A:700:ILE:HA	1:A:703:GLU:CD	2.33	0.54
1:A:804:THR:O	1:A:807:TRP:CB	2.56	0.54
1:B:28:ALA:HB2	1:B:170:ASP:HB2	1.55	0.54
1:B:32:GLN:CB	1:B:33:PRO:CD	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:191:ILE:CD1	1:B:195:GLU:HB3	2.32	0.54
1:B:286:PHE:O	1:B:290:LEU:HG	2.08	0.54
1:B:289:VAL:HG12	1:B:756:TRP:HB2	0.54	0.54
1:B:728:PHE:CZ	1:B:805:GLU:OE1	2.61	0.54
1:B:804:THR:O	1:B:807:TRP:CB	2.56	0.54
1:A:73:ARG:O	1:A:74:VAL:C	2.48	0.54
1:A:309:TRP:HZ2	1:A:319:ILE:HD11	1.72	0.54
1:A:547:ALA:HB2	1:A:675:ILE:HD12	1.88	0.54
1:A:581:ALA:HB2	1:A:586:LEU:HD23	1.88	0.54
1:A:801:ILE:O	1:A:805:GLU:HG3	2.07	0.54
1:B:24:LYS:NZ	1:B:171:GLU:HB3	2.19	0.54
1:B:513:LEU:CB	1:B:530:MET:HE3	2.37	0.54
1:B:523:SER:CA	1:B:524:TRP:CE3	2.82	0.54
1:B:570:ARG:HB2	1:B:576:THR:O	2.07	0.54
1:A:9:ALA:CB	1:A:10:PRO:HD3	2.19	0.54
1:A:181:VAL:O	1:A:202:LEU:CD1	2.41	0.54
1:A:365:ALA:HB1	1:A:663:ASP:HB3	1.89	0.54
1:A:513:LEU:CB	1:A:530:MET:HE3	2.37	0.54
1:A:728:PHE:CZ	1:A:805:GLU:OE1	2.61	0.54
1:A:780:GLN:HG3	1:A:783:ASN:CB	2.38	0.54
1:A:813:ARG:HG2	1:A:814:ALA:N	2.20	0.54
1:B:154:ASN:O	1:B:157:VAL:HB	2.08	0.54
1:B:274:ALA:CB	1:B:275:LEU:HD12	2.38	0.54
1:B:378:ASP:O	1:B:382:THR:HB	2.07	0.54
1:B:599:ASP:OD1	1:B:599:ASP:O	2.26	0.54
1:B:895:GLY:O	1:B:899:GLN:HB2	2.07	0.54
1:A:154:ASN:O	1:A:157:VAL:HB	2.08	0.54
1:A:289:VAL:HG13	1:A:756:TRP:CB	2.18	0.54
1:B:309:TRP:HZ2	1:B:319:ILE:HD11	1.72	0.54
1:B:317:ASN:CG	1:B:321:GLN:NE2	2.66	0.54
1:B:329:ILE:HG23	1:B:703:GLU:HA	1.89	0.54
1:B:332:ILE:HG23	1:B:333:GLY:N	2.22	0.54
1:B:386:ASN:HB2	1:B:534:ASP:HB3	1.90	0.54
1:B:399:VAL:HB	1:B:401:PRO:HD2	1.86	0.54
1:B:733:THR:OG1	1:B:734:LEU:N	2.40	0.54
1:B:780:GLN:HG3	1:B:783:ASN:CB	2.38	0.54
1:B:796:VAL:CG1	1:B:800:GLN:CG	2.86	0.54
1:A:251:VAL:HG13	1:A:253:ARG:CG	2.38	0.53
1:A:268:PHE:HD2	1:A:269:VAL:HG23	1.72	0.53
1:A:386:ASN:HB2	1:A:534:ASP:HB3	1.90	0.53
1:A:439:VAL:CG1	1:A:440:LEU:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:LYS:C	1:A:499:LYS:CD	2.81	0.53
1:A:895:GLY:O	1:A:899:GLN:HB2	2.07	0.53
1:B:285:HIS:CG	1:B:286:PHE:N	2.60	0.53
1:B:570:ARG:CA	1:B:576:THR:O	2.56	0.53
1:B:592:MET:CG	1:B:593:PRO:HD2	2.38	0.53
1:B:696:ILE:CG2	1:B:697:ALA:N	2.71	0.53
1:A:89:THR:C	1:A:91:GLU:N	2.65	0.53
1:A:204:VAL:HG13	1:A:256:ALA:HB3	1.90	0.53
1:A:445:VAL:CG1	1:A:448:PHE:CZ	2.92	0.53
1:A:715:ARG:HB2	1:A:790:PHE:CE2	2.44	0.53
1:B:193:ALA:O	1:B:196:VAL:HG23	2.02	0.53
1:B:305:LEU:CG	1:B:329:ILE:HG22	2.38	0.53
1:B:312:SER:CB	1:B:322:ILE:HG22	2.34	0.53
1:B:415:LYS:CG	1:B:511:ARG:HE	2.13	0.53
1:B:668:ALA:C	1:B:670:GLY:N	2.63	0.53
1:B:698:LEU:H	1:B:808:LEU:CD2	2.21	0.53
1:A:125:GLN:HB3	1:A:151:LEU:CG	2.39	0.53
1:A:218:THR:O	1:A:219:ASP:CB	2.57	0.53
1:A:305:LEU:HD11	1:A:329:ILE:O	2.08	0.53
1:A:317:ASN:CG	1:A:321:GLN:NE2	2.66	0.53
1:A:383:LEU:HD12	1:A:556:MET:CE	2.37	0.53
1:A:470:ILE:CD1	1:A:517:ARG:CG	2.85	0.53
1:A:502:VAL:HG22	1:A:510:PHE:CE2	2.43	0.53
1:A:553:SER:CB	1:A:555:LYS:HZ2	2.20	0.53
1:A:593:PRO:HB3	1:A:913:SER:CB	2.39	0.53
1:A:601:VAL:HG12	1:A:602:GLU:H	1.72	0.53
1:A:865:PHE:CE2	1:B:302:ILE:CD1	2.91	0.53
1:B:22:ASP:O	1:B:23:GLU:C	2.51	0.53
1:B:111:ASN:C	1:B:112:HIS:CG	2.87	0.53
1:B:125:GLN:HB3	1:B:151:LEU:HB3	1.91	0.53
1:B:251:VAL:HG13	1:B:253:ARG:CG	2.38	0.53
1:B:338:LEU:N	1:B:339:PRO:HD2	2.22	0.53
1:B:502:VAL:HA	1:B:505:PHE:HD2	1.74	0.53
1:A:31:TYR:O	1:A:33:PRO:HD3	2.08	0.53
1:A:214:GLY:N	1:A:245:VAL:O	2.39	0.53
1:A:331:ILE:C	1:A:331:ILE:CD1	2.82	0.53
1:A:591:ASP:CA	1:A:592:MET:HE1	1.94	0.53
1:A:696:ILE:CG2	1:A:697:ALA:N	2.71	0.53
1:A:804:THR:OG1	1:A:805:GLU:N	2.42	0.53
1:A:862:ILE:CD1	1:B:309:TRP:CE3	2.85	0.53
1:B:305:LEU:HD11	1:B:329:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:423:ASP:HA	1:B:426:PHE:CD1	2.43	0.53
1:A:23:GLU:O	1:A:27:GLU:CG	2.47	0.53
1:A:78:ASP:CB	1:A:81:GLN:CG	2.76	0.53
1:A:111:ASN:C	1:A:112:HIS:CG	2.87	0.53
1:A:550:LEU:HD22	1:A:682:ARG:NE	2.24	0.53
1:B:204:VAL:HG13	1:B:256:ALA:HB3	1.91	0.53
1:B:302:ILE:O	1:B:306:LEU:CG	2.54	0.53
1:B:331:ILE:CG2	1:B:332:ILE:N	2.71	0.53
1:B:340:ALA:C	1:B:343:THR:HG22	2.34	0.53
1:B:445:VAL:CG1	1:B:448:PHE:CZ	2.92	0.53
1:B:804:THR:OG1	1:B:805:GLU:N	2.42	0.53
1:B:832:PHE:O	1:B:836:ILE:HG12	2.09	0.53
1:A:12:LEU:O	1:A:187:THR:HG21	2.09	0.53
1:A:125:GLN:HB3	1:A:151:LEU:HB3	1.91	0.53
1:A:903:GLU:O	1:A:907:VAL:CG2	2.57	0.53
1:B:15:ASN:O	1:B:16:ILE:C	2.52	0.53
1:B:285:HIS:O	1:B:288:GLU:N	2.38	0.53
1:B:389:SER:CA	1:B:422:ILE:HD12	2.35	0.53
1:B:406:LEU:HD23	1:B:470:ILE:HD13	1.91	0.53
1:B:652:GLU:HB2	1:B:666:PHE:O	2.09	0.53
1:B:715:ARG:CB	1:B:790:PHE:CD2	2.92	0.53
1:B:756:TRP:CG	1:B:757:GLY:N	2.57	0.53
1:A:4:HIS:CE1	1:A:441:SER:OG	2.60	0.53
1:A:15:ASN:O	1:A:16:ILE:C	2.52	0.53
1:A:22:ASP:O	1:A:23:GLU:C	2.51	0.53
1:A:388:LEU:HD23	1:A:416:LYS:H	1.73	0.53
1:A:406:LEU:HD23	1:A:470:ILE:HD13	1.91	0.53
1:A:486:GLU:O	1:A:487:ASP:C	2.51	0.53
1:A:570:ARG:CA	1:A:576:THR:O	2.56	0.53
1:A:596:GLU:HB2	1:A:910:GLN:HE21	1.73	0.53
1:B:96:ARG:HH11	1:B:96:ARG:HG3	1.69	0.53
1:B:125:GLN:HB3	1:B:151:LEU:CG	2.39	0.53
1:B:181:VAL:O	1:B:202:LEU:CD1	2.41	0.53
1:B:486:GLU:O	1:B:487:ASP:C	2.51	0.53
1:B:593:PRO:HB3	1:B:913:SER:CB	2.39	0.53
1:A:274:ALA:CB	1:A:275:LEU:HD12	2.38	0.53
1:A:302:ILE:O	1:A:306:LEU:CG	2.54	0.53
1:A:340:ALA:C	1:A:343:THR:HG22	2.34	0.53
1:A:394:TYR:CZ	1:A:529:ILE:HD11	2.41	0.53
1:A:451:PHE:CG	1:A:458:VAL:HG12	2.44	0.53
1:A:532:CYS:SG	1:A:533:MET:N	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:LEU:O	1:B:187:THR:HG21	2.09	0.53
1:B:214:GLY:O	1:B:245:VAL:N	2.29	0.53
1:B:218:THR:O	1:B:219:ASP:CB	2.57	0.53
1:B:407:THR:CB	1:B:527:LEU:HD13	2.39	0.53
1:B:484:VAL:HG21	1:B:526:ILE:CB	2.39	0.53
1:B:499:LYS:C	1:B:499:LYS:CD	2.81	0.53
1:B:502:VAL:HG22	1:B:510:PHE:CE2	2.43	0.53
1:B:683:GLN:C	1:B:687:ARG:NE	2.67	0.53
1:B:903:GLU:O	1:B:907:VAL:CG2	2.57	0.53
1:A:331:ILE:CG2	1:A:332:ILE:N	2.71	0.53
1:A:381:GLY:O	1:A:669:PRO:O	2.26	0.53
1:A:385:LYS:CG	1:A:535:PRO:O	2.34	0.53
1:A:502:VAL:HA	1:A:505:PHE:HD2	1.74	0.53
1:A:510:PHE:N	1:A:532:CYS:O	2.41	0.53
1:A:594:GLY:O	1:A:597:VAL:CG2	2.55	0.53
1:A:678:LEU:C	1:A:682:ARG:HE	2.17	0.53
1:A:832:PHE:O	1:A:836:ILE:HG12	2.09	0.53
1:B:510:PHE:N	1:B:532:CYS:O	2.41	0.53
1:B:518:LYS:HD3	1:B:523:SER:CB	2.08	0.53
1:B:706:LEU:O	1:B:709:TRP:HD1	1.92	0.53
1:B:772:ILE:HG23	1:B:804:THR:HG21	1.90	0.53
1:A:592:MET:CG	1:A:593:PRO:HD2	2.38	0.53
1:A:652:GLU:HB2	1:A:666:PHE:O	2.09	0.53
1:A:796:VAL:CG1	1:A:800:GLN:CG	2.86	0.53
1:B:4:HIS:CE1	1:B:441:SER:OG	2.60	0.53
1:B:77:GLU:C	1:B:80:LEU:HD21	2.32	0.53
1:B:217:VAL:HG12	1:B:257:PHE:HB3	1.88	0.53
1:B:299:ILE:HG23	1:B:300:LEU:N	2.23	0.53
1:B:451:PHE:CG	1:B:458:VAL:HG12	2.44	0.53
1:B:511:ARG:H	1:B:532:CYS:N	2.07	0.53
1:B:517:ARG:CG	1:B:517:ARG:NH1	2.58	0.53
1:B:557:LEU:CB	1:B:607:PHE:CD2	2.88	0.53
1:B:607:PHE:CD1	1:B:607:PHE:C	2.87	0.53
1:B:698:LEU:HD22	1:B:805:GLU:CB	2.30	0.53
1:B:796:VAL:CG2	1:B:852:THR:CB	2.87	0.53
1:B:810:PHE:CZ	1:B:823:PRO:CD	2.72	0.53
1:B:895:GLY:CA	1:B:898:LYS:HB2	2.39	0.53
1:A:185:ASP:OD2	1:A:189:LYS:CD	2.55	0.52
1:A:299:ILE:HG23	1:A:300:LEU:N	2.23	0.52
1:A:305:LEU:CG	1:A:329:ILE:HG22	2.38	0.52
1:A:510:PHE:O	1:A:564:ILE:HB	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:675:ILE:O	1:A:679:LYS:HG2	2.09	0.52
1:A:772:ILE:HG23	1:A:804:THR:HG21	1.90	0.52
1:B:24:LYS:CG	1:B:25:ALA:N	2.70	0.52
1:B:77:GLU:O	1:B:80:LEU:HG	2.09	0.52
1:B:400:ASP:O	1:B:400:ASP:OD1	2.27	0.52
1:B:518:LYS:HD2	1:B:523:SER:HB3	1.64	0.52
1:B:592:MET:CB	1:B:593:PRO:HD2	2.33	0.52
1:B:715:ARG:HB2	1:B:790:PHE:CE2	2.44	0.52
1:A:246:PHE:HB2	1:A:268:PHE:HD2	1.61	0.52
1:A:400:ASP:OD1	1:A:400:ASP:O	2.27	0.52
1:A:599:ASP:O	1:A:599:ASP:OD1	2.26	0.52
1:A:686:HIS:HB2	1:A:740:ASN:ND2	2.24	0.52
1:A:895:GLY:CA	1:A:898:LYS:HB2	2.39	0.52
1:B:31:TYR:O	1:B:33:PRO:HD3	2.08	0.52
1:B:202:LEU:CG	1:B:260:ILE:HD11	2.34	0.52
1:B:240:HIS:C	1:B:241:LYS:O	2.52	0.52
1:B:305:LEU:HD23	1:B:305:LEU:H	1.70	0.52
1:B:331:ILE:C	1:B:331:ILE:CD1	2.82	0.52
1:B:375:LEU:O	1:B:554:ILE:HA	2.08	0.52
1:B:550:LEU:HD22	1:B:682:ARG:NE	2.23	0.52
1:A:77:GLU:O	1:A:80:LEU:HG	2.09	0.52
1:A:176:LEU:CD2	1:A:191:ILE:HG12	2.39	0.52
1:A:216:ILE:HB	1:A:243:ASP:H	1.74	0.52
1:A:289:VAL:HG11	1:A:756:TRP:N	2.24	0.52
1:A:333:GLY:O	1:A:335:PRO:N	2.42	0.52
1:A:375:LEU:O	1:A:554:ILE:HA	2.08	0.52
1:B:381:GLY:O	1:B:669:PRO:O	2.26	0.52
1:B:470:ILE:HD12	1:B:517:ARG:HE	1.61	0.52
1:B:553:SER:CB	1:B:555:LYS:HZ2	2.21	0.52
1:A:141:TRP:O	1:A:141:TRP:CD2	2.62	0.52
1:A:246:PHE:CD1	1:A:268:PHE:HD2	2.22	0.52
1:A:251:VAL:HG13	1:A:253:ARG:HG3	1.91	0.52
1:A:312:SER:CB	1:A:322:ILE:HG22	2.34	0.52
1:A:407:THR:CB	1:A:527:LEU:HD13	2.39	0.52
1:A:510:PHE:CD1	1:A:531:PRO:CG	2.91	0.52
1:A:618:VAL:HA	1:A:621:ILE:CG1	2.39	0.52
1:A:683:GLN:C	1:A:687:ARG:NE	2.67	0.52
1:B:94:VAL:HG21	1:B:98:ARG:NH2	2.15	0.52
1:B:125:GLN:C	1:B:151:LEU:CD1	2.78	0.52
1:B:146:VAL:CB	1:B:719:ILE:CG2	2.39	0.52
1:B:176:LEU:CD2	1:B:191:ILE:HG12	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:402:GLU:C	1:B:404:LEU:N	2.67	0.52
1:B:488:HIS:CG	1:B:489:PRO:CD	2.85	0.52
1:B:510:PHE:CD1	1:B:531:PRO:CG	2.91	0.52
1:B:780:GLN:HE22	1:B:792:ASN:C	2.18	0.52
1:A:219:ASP:OD2	1:A:257:PHE:N	2.43	0.52
1:A:240:HIS:C	1:A:241:LYS:O	2.52	0.52
1:A:453:PRO:CB	1:A:592:MET:HB2	2.32	0.52
1:A:557:LEU:CB	1:A:607:PHE:CD2	2.87	0.52
1:A:581:ALA:N	1:A:586:LEU:HD23	2.25	0.52
1:A:715:ARG:CB	1:A:790:PHE:CD2	2.92	0.52
1:A:725:ILE:CG1	1:A:728:PHE:HE1	2.23	0.52
1:B:510:PHE:O	1:B:564:ILE:HB	2.09	0.52
1:B:516:ALA:O	1:B:527:LEU:CD1	2.57	0.52
1:B:679:LYS:N	1:B:682:ARG:NE	2.57	0.52
1:B:698:LEU:HD22	1:B:805:GLU:CA	2.40	0.52
1:A:471:THR:HB	1:A:519:ARG:CA	2.38	0.52
1:A:698:LEU:HD22	1:A:805:GLU:CA	2.40	0.52
1:B:141:TRP:O	1:B:141:TRP:CD2	2.62	0.52
1:B:144:PHE:CD1	1:B:145:GLY:N	2.78	0.52
1:B:407:THR:HG21	1:B:517:ARG:CG	2.37	0.52
1:B:471:THR:CB	1:B:519:ARG:N	2.66	0.52
1:B:601:VAL:HG12	1:B:602:GLU:H	1.72	0.52
1:B:697:ALA:O	1:B:700:ILE:CG2	2.47	0.52
1:A:79:MET:SD	1:A:244:GLN:HB2	2.50	0.52
1:A:94:VAL:HG13	1:A:98:ARG:CZ	2.40	0.52
1:A:679:LYS:N	1:A:682:ARG:NE	2.57	0.52
1:A:796:VAL:CG2	1:A:852:THR:CB	2.87	0.52
1:B:94:VAL:HG22	1:B:98:ARG:NE	2.25	0.52
1:B:94:VAL:HG13	1:B:98:ARG:CZ	2.40	0.52
1:B:216:ILE:HB	1:B:243:ASP:H	1.74	0.52
1:B:233:GLU:HG3	1:B:233:GLU:O	2.09	0.52
1:B:289:VAL:HG11	1:B:756:TRP:N	2.24	0.52
1:B:388:LEU:HD23	1:B:416:LYS:H	1.73	0.52
1:B:654:SER:OG	1:B:655:SER:N	2.34	0.52
1:B:678:LEU:C	1:B:682:ARG:HE	2.17	0.52
1:A:94:VAL:HG22	1:A:98:ARG:NE	2.25	0.52
1:A:385:LYS:HE2	1:A:537:ARG:HD2	1.91	0.52
1:A:523:SER:HA	1:A:524:TRP:HE3	1.58	0.52
1:A:666:PHE:CZ	1:A:674:ILE:CG2	2.92	0.52
1:A:733:THR:OG1	1:A:734:LEU:N	2.40	0.52
1:B:16:ILE:HG22	1:B:176:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:GLY:HA3	1:B:245:VAL:CG1	2.40	0.52
1:B:219:ASP:OD2	1:B:257:PHE:N	2.43	0.52
1:B:891:LYS:O	1:B:892:SER:C	2.52	0.52
1:A:100:TYR:CB	1:A:264:GLY:CA	2.80	0.52
1:A:305:LEU:HD23	1:A:305:LEU:H	1.70	0.52
1:A:319:ILE:HA	1:A:322:ILE:HD11	1.90	0.52
1:A:344:THR:HG23	1:A:345:THR:N	2.25	0.52
1:A:389:SER:CA	1:A:422:ILE:HD12	2.35	0.52
1:A:423:ASP:HA	1:A:426:PHE:CD1	2.43	0.52
1:A:502:VAL:HG22	1:A:510:PHE:HZ	1.59	0.52
1:A:728:PHE:CD2	1:A:834:VAL:CG1	2.90	0.52
1:B:269:VAL:O	1:B:269:VAL:CG1	2.56	0.52
1:B:322:ILE:O	1:B:326:THR:HG23	2.10	0.52
1:B:481:LEU:HD13	1:B:498:TYR:CE2	2.45	0.52
1:B:581:ALA:N	1:B:586:LEU:HD23	2.25	0.52
1:B:615:LYS:HA	1:B:618:VAL:CG2	2.40	0.52
1:B:686:HIS:HB2	1:B:740:ASN:ND2	2.24	0.52
1:B:728:PHE:CD2	1:B:834:VAL:CG1	2.90	0.52
1:A:301:VAL:CG1	1:A:302:ILE:N	2.73	0.52
1:A:484:VAL:CG2	1:A:526:ILE:CB	2.88	0.52
1:A:491:PRO:HG2	1:A:494:VAL:CG2	2.40	0.52
1:A:607:PHE:CD1	1:A:607:PHE:C	2.87	0.52
1:A:683:GLN:CB	1:A:687:ARG:HE	2.23	0.52
1:A:834:VAL:HA	1:A:837:LEU:HD13	1.92	0.52
1:B:79:MET:SD	1:B:244:GLN:HB2	2.50	0.52
1:B:333:GLY:O	1:B:335:PRO:N	2.42	0.52
1:B:357:LYS:HD3	1:B:667:LEU:HD23	1.92	0.52
1:B:416:LYS:C	1:B:417:LYS:CG	2.74	0.52
1:B:618:VAL:CA	1:B:621:ILE:HG12	2.40	0.52
1:B:666:PHE:CZ	1:B:674:ILE:CG2	2.92	0.52
1:B:709:TRP:CE3	1:B:715:ARG:O	2.63	0.52
1:B:780:GLN:C	1:B:782:GLU:N	2.67	0.52
1:A:17:GLU:HG3	1:A:189:LYS:HE2	1.92	0.51
1:A:246:PHE:HB3	1:A:268:PHE:CD2	2.36	0.51
1:A:327:LEU:O	1:A:330:THR:HB	2.10	0.51
1:A:338:LEU:HB3	1:A:339:PRO:HD3	1.92	0.51
1:A:618:VAL:CA	1:A:621:ILE:HG12	2.40	0.51
1:A:706:LEU:O	1:A:709:TRP:HD1	1.92	0.51
1:A:736:ILE:HD13	1:A:827:LEU:HB2	1.92	0.51
1:A:780:GLN:HE22	1:A:792:ASN:C	2.18	0.51
1:B:384:THR:CG2	1:B:534:ASP:CB	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:THR:HB	1:B:519:ARG:CA	2.38	0.51
1:B:540:THR:CG2	1:B:541:TYR:N	2.73	0.51
1:B:557:LEU:CA	1:B:607:PHE:CD2	2.93	0.51
1:B:562:VAL:HG23	1:B:563:GLY:N	2.25	0.51
1:A:210:ILE:HD12	1:A:247:ALA:C	2.35	0.51
1:A:806:ASN:C	1:A:809:ILE:HG22	2.34	0.51
1:A:891:LYS:O	1:A:892:SER:C	2.52	0.51
1:B:301:VAL:CG1	1:B:302:ILE:N	2.73	0.51
1:B:580:ASN:O	1:B:581:ALA:HB2	2.09	0.51
1:B:766:LEU:O	1:B:770:THR:CG2	2.55	0.51
1:B:804:THR:HA	1:B:807:TRP:CG	2.44	0.51
1:A:230:LEU:CD2	1:A:268:PHE:HE2	2.03	0.51
1:A:356:LYS:C	1:A:358:ALA:N	2.68	0.51
1:A:385:LYS:HE2	1:A:537:ARG:CB	2.40	0.51
1:A:488:HIS:CE1	1:A:489:PRO:HD2	2.45	0.51
1:A:615:LYS:HA	1:A:618:VAL:CG2	2.40	0.51
1:A:689:TYR:C	1:A:692:VAL:HG22	2.35	0.51
1:B:125:GLN:HE22	1:B:154:ASN:HB3	1.75	0.51
1:B:736:ILE:HD13	1:B:827:LEU:HB2	1.92	0.51
1:B:810:PHE:HB3	1:B:868:PHE:CE2	2.46	0.51
1:B:819:TRP:O	1:B:819:TRP:HD1	1.87	0.51
1:B:822:ILE:O	1:B:822:ILE:HG22	2.11	0.51
1:A:77:GLU:C	1:A:80:LEU:HD21	2.32	0.51
1:A:233:GLU:HG3	1:A:233:GLU:O	2.09	0.51
1:A:346:MET:HG3	1:A:363:LEU:HB3	1.82	0.51
1:A:402:GLU:C	1:A:404:LEU:N	2.67	0.51
1:A:481:LEU:HD13	1:A:498:TYR:CE2	2.45	0.51
1:A:540:THR:CG2	1:A:541:TYR:N	2.73	0.51
1:A:720:GLU:C	1:A:723:VAL:HG22	2.29	0.51
1:A:727:ILE:HD12	1:A:727:ILE:C	2.36	0.51
1:A:771:TRP:HE1	1:A:775:THR:HG21	1.63	0.51
1:B:344:THR:HG23	1:B:345:THR:N	2.25	0.51
1:B:618:VAL:HA	1:B:621:ILE:CG1	2.39	0.51
1:B:671:LEU:CA	1:B:674:ILE:CD1	2.84	0.51
1:B:683:GLN:CB	1:B:687:ARG:HE	2.23	0.51
1:A:155:ALA:O	1:A:157:VAL:N	2.44	0.51
1:A:322:ILE:O	1:A:326:THR:HG23	2.10	0.51
1:A:380:THR:HG21	1:A:388:LEU:CA	2.40	0.51
1:A:423:ASP:O	1:A:426:PHE:HB2	2.11	0.51
1:A:562:VAL:HG23	1:A:563:GLY:N	2.25	0.51
1:B:34:LYS:HB3	1:B:35:PRO:CD	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:VAL:HG23	1:B:208:THR:HG21	1.92	0.51
1:B:385:LYS:HE2	1:B:537:ARG:HD2	1.91	0.51
1:B:423:ASP:O	1:B:426:PHE:HB2	2.11	0.51
1:A:12:LEU:N	1:A:12:LEU:CD2	2.73	0.51
1:A:125:GLN:HE22	1:A:154:ASN:HB3	1.75	0.51
1:A:144:PHE:CD1	1:A:145:GLY:N	2.78	0.51
1:A:258:VAL:CG2	1:A:259:VAL:H	2.24	0.51
1:A:771:TRP:HZ2	1:A:863:PHE:HD2	1.59	0.51
1:B:191:ILE:CG2	1:B:196:VAL:CG1	2.87	0.51
1:B:231:THR:CG2	1:B:232:GLY:N	2.60	0.51
1:B:380:THR:HG21	1:B:388:LEU:CA	2.40	0.51
1:B:546:GLU:OE1	1:B:679:LYS:CD	2.57	0.51
1:B:790:PHE:HE2	1:B:793:MET:HB3	1.71	0.51
1:B:834:VAL:HA	1:B:837:LEU:HD13	1.92	0.51
1:A:49:ILE:HD12	1:A:276:VAL:CG2	2.41	0.51
1:A:357:LYS:HD3	1:A:667:LEU:HD23	1.92	0.51
1:A:583:ARG:HB3	1:A:603:ALA:CB	2.35	0.51
1:A:731:VAL:CG1	1:A:732:ALA:H	2.13	0.51
1:A:859:ARG:O	1:A:862:ILE:HG13	2.11	0.51
1:B:42:ASP:HA	1:B:45:ILE:CG2	2.41	0.51
1:B:251:VAL:HG13	1:B:253:ARG:HG3	1.91	0.51
1:B:319:ILE:HA	1:B:322:ILE:HD11	1.90	0.51
1:B:396:VAL:O	1:B:397:ALA:C	2.53	0.51
1:B:442:LYS:C	1:B:443:TYR:CG	2.89	0.51
1:B:491:PRO:HG2	1:B:494:VAL:CG2	2.40	0.51
1:B:679:LYS:HA	1:B:682:ARG:HD2	1.88	0.51
1:B:725:ILE:O	1:B:728:PHE:CD1	2.64	0.51
1:B:725:ILE:CG1	1:B:728:PHE:HE1	2.23	0.51
1:A:94:VAL:HG21	1:A:98:ARG:NH2	2.15	0.51
1:A:384:THR:CG2	1:A:534:ASP:CB	2.88	0.51
1:A:516:ALA:O	1:A:527:LEU:CD1	2.57	0.51
1:A:709:TRP:CE3	1:A:715:ARG:O	2.63	0.51
1:A:810:PHE:HB3	1:A:868:PHE:CE2	2.46	0.51
1:B:12:LEU:N	1:B:12:LEU:CD2	2.73	0.51
1:B:49:ILE:HD12	1:B:276:VAL:CG2	2.41	0.51
1:B:100:TYR:CD1	1:B:264:GLY:O	2.64	0.51
1:B:155:ALA:O	1:B:158:GLY:CA	2.58	0.51
1:B:543:THR:OG1	1:B:672:GLY:O	2.29	0.51
1:B:806:ASN:C	1:B:809:ILE:HG22	2.34	0.51
1:A:214:GLY:HA3	1:A:245:VAL:CG1	2.40	0.51
1:A:396:VAL:O	1:A:397:ALA:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:ASN:O	1:A:581:ALA:HB2	2.09	0.51
1:A:739:ASP:OD1	1:A:739:ASP:N	2.44	0.51
1:B:106:LYS:CE	1:B:361:GLN:NE2	2.73	0.51
1:B:327:LEU:O	1:B:330:THR:HB	2.10	0.51
1:B:346:MET:HG3	1:B:363:LEU:HB3	1.82	0.51
1:B:488:HIS:CE1	1:B:489:PRO:HD2	2.45	0.51
1:B:591:ASP:C	1:B:592:MET:CE	2.66	0.51
1:B:676:ASP:HA	1:B:679:LYS:CG	2.40	0.51
1:B:727:ILE:HD12	1:B:727:ILE:C	2.36	0.51
1:B:859:ARG:O	1:B:862:ILE:HG13	2.11	0.51
1:A:100:TYR:CG	1:A:264:GLY:CA	2.93	0.51
1:A:325:PHE:CZ	1:A:706:LEU:CA	2.94	0.51
1:A:341:VAL:CG1	1:A:342:VAL:N	2.74	0.51
1:A:374:ILE:CG2	1:A:555:LYS:HD3	2.41	0.51
1:A:411:ALA:O	1:A:515:VAL:HB	2.11	0.51
1:A:427:LEU:HA	1:A:440:LEU:CD2	2.26	0.51
1:A:511:ARG:H	1:A:532:CYS:N	2.07	0.51
1:B:338:LEU:HB3	1:B:339:PRO:HD3	1.92	0.51
1:B:374:ILE:CG2	1:B:555:LYS:HD3	2.41	0.51
1:B:484:VAL:CG2	1:B:526:ILE:CB	2.88	0.51
1:B:771:TRP:HE1	1:B:775:THR:HG21	1.63	0.51
1:B:903:GLU:O	1:B:907:VAL:HB	2.11	0.51
1:A:374:ILE:HD13	1:A:553:SER:CB	2.22	0.50
1:A:616:TYR:O	1:A:619:VAL:HG23	2.11	0.50
1:A:697:ALA:HB1	1:A:768:VAL:CG1	2.41	0.50
1:A:725:ILE:O	1:A:728:PHE:CD1	2.64	0.50
1:A:796:VAL:HG21	1:A:852:THR:CB	2.40	0.50
1:B:28:ALA:CA	1:B:170:ASP:CB	2.63	0.50
1:B:125:GLN:CG	1:B:151:LEU:CD2	2.46	0.50
1:B:155:ALA:O	1:B:157:VAL:N	2.44	0.50
1:B:258:VAL:CG2	1:B:259:VAL:H	2.24	0.50
1:B:271:ARG:HD2	1:B:275:LEU:CD2	2.40	0.50
1:B:463:GLU:HG2	1:B:464:SER:O	2.11	0.50
1:B:796:VAL:HG21	1:B:852:THR:CB	2.40	0.50
1:A:371:GLY:O	1:A:748:VAL:CG1	2.57	0.50
1:A:671:LEU:HA	1:A:674:ILE:HD13	1.92	0.50
1:A:676:ASP:HA	1:A:679:LYS:CG	2.40	0.50
1:A:690:ALA:O	1:A:812:THR:HB	2.12	0.50
1:A:903:GLU:O	1:A:907:VAL:HB	2.11	0.50
1:A:915:GLN:O	1:A:918:LYS:HB3	2.12	0.50
1:B:97:ARG:HH21	1:B:197:VAL:CG1	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:PHE:CD1	1:B:268:PHE:CE2	2.99	0.50
1:B:304:THR:OG1	1:B:305:LEU:CD2	2.54	0.50
1:B:464:SER:HB2	1:B:465:PRO:HD2	1.93	0.50
1:A:16:ILE:HG22	1:A:176:LEU:HD12	1.90	0.50
1:A:155:ALA:C	1:A:157:VAL:N	2.69	0.50
1:A:464:SER:HB2	1:A:465:PRO:HD2	1.93	0.50
1:A:557:LEU:CA	1:A:607:PHE:CD2	2.93	0.50
1:A:780:GLN:HE22	1:A:792:ASN:HB3	1.77	0.50
1:A:822:ILE:HG22	1:A:822:ILE:O	2.11	0.50
1:B:155:ALA:C	1:B:157:VAL:N	2.69	0.50
1:B:594:GLY:O	1:B:597:VAL:CG2	2.55	0.50
1:B:692:VAL:HG23	1:B:693:VAL:N	2.26	0.50
1:B:810:PHE:HB3	1:B:868:PHE:HE2	1.75	0.50
1:A:49:ILE:CG1	1:A:275:LEU:O	2.59	0.50
1:A:271:ARG:HD2	1:A:275:LEU:CD2	2.40	0.50
1:A:393:PRO:HA	1:A:530:MET:HA	1.93	0.50
1:A:422:ILE:O	1:A:426:PHE:CD1	2.65	0.50
1:A:490:ILE:H	1:A:490:ILE:HD12	1.75	0.50
1:A:513:LEU:HD11	1:A:515:VAL:CG1	2.42	0.50
1:A:543:THR:OG1	1:A:672:GLY:O	2.29	0.50
1:A:692:VAL:HG23	1:A:693:VAL:N	2.26	0.50
1:B:17:GLU:HG3	1:B:189:LYS:HE2	1.92	0.50
1:B:100:TYR:CG	1:B:264:GLY:CA	2.93	0.50
1:B:325:PHE:CG	1:B:710:ILE:CD1	2.77	0.50
1:B:513:LEU:HD11	1:B:515:VAL:CG1	2.42	0.50
1:B:690:ALA:O	1:B:812:THR:HB	2.12	0.50
1:B:883:GLY:O	1:B:887:LEU:CG	2.58	0.50
1:A:93:VAL:CG1	1:A:197:VAL:HG11	2.19	0.50
1:A:97:ARG:HH21	1:A:197:VAL:CG1	2.24	0.50
1:A:191:ILE:CG2	1:A:196:VAL:CG1	2.87	0.50
1:A:338:LEU:N	1:A:339:PRO:CD	2.75	0.50
1:A:509:GLY:C	1:A:564:ILE:HG13	2.36	0.50
1:A:686:HIS:HB2	1:A:740:ASN:HD21	1.76	0.50
1:A:698:LEU:HD12	1:A:701:HIS:CE1	2.46	0.50
1:B:191:ILE:HD12	1:B:195:GLU:CB	2.32	0.50
1:B:210:ILE:HD12	1:B:247:ALA:C	2.35	0.50
1:B:293:ILE:HD12	1:B:756:TRP:CD2	2.25	0.50
1:B:341:VAL:CG1	1:B:342:VAL:N	2.74	0.50
1:B:616:TYR:O	1:B:619:VAL:HG23	2.11	0.50
1:B:779:ALA:HB1	1:B:800:GLN:OE1	2.11	0.50
1:A:42:ASP:HA	1:A:45:ILE:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:TYR:CD1	1:A:264:GLY:O	2.64	0.50
1:A:110:GLU:C	1:A:112:HIS:H	2.20	0.50
1:A:442:LYS:C	1:A:443:TYR:CG	2.89	0.50
1:B:110:GLU:C	1:B:112:HIS:H	2.20	0.50
1:B:121:VAL:C	1:B:123:PRO:HD2	2.37	0.50
1:B:375:LEU:N	1:B:553:SER:O	2.36	0.50
1:B:490:ILE:H	1:B:490:ILE:HD12	1.75	0.50
1:B:513:LEU:CD1	1:B:515:VAL:CG1	2.87	0.50
1:B:617:ASN:O	1:B:621:ILE:HG12	2.11	0.50
1:B:694:TYR:O	1:B:808:LEU:CD2	2.60	0.50
1:B:698:LEU:HD12	1:B:701:HIS:CE1	2.46	0.50
1:B:915:GLN:O	1:B:918:LYS:HB3	2.12	0.50
1:A:463:GLU:HG2	1:A:464:SER:O	2.11	0.50
1:A:743:TYR:CD2	1:A:744:SER:N	2.80	0.50
1:A:768:VAL:HG13	1:A:769:GLY:N	2.27	0.50
1:A:796:VAL:HG23	1:A:852:THR:OG1	2.12	0.50
1:B:213:ASP:HA	1:B:245:VAL:O	2.12	0.50
1:B:240:HIS:O	1:B:241:LYS:C	2.54	0.50
1:B:394:TYR:CZ	1:B:529:ILE:HD11	2.41	0.50
1:B:422:ILE:O	1:B:426:PHE:CD1	2.64	0.50
1:B:743:TYR:CD2	1:B:744:SER:N	2.80	0.50
1:B:796:VAL:HG23	1:B:852:THR:OG1	2.12	0.50
1:A:121:VAL:C	1:A:123:PRO:HD2	2.37	0.50
1:A:209:ILE:O	1:A:211:PRO:HD3	2.12	0.50
1:A:332:ILE:HD13	1:A:702:LEU:CB	2.42	0.50
1:A:332:ILE:HG23	1:A:333:GLY:H	1.77	0.50
1:A:617:ASN:O	1:A:621:ILE:HG12	2.11	0.50
1:A:634:ASP:CG	1:A:635:GLY:N	2.69	0.50
1:B:325:PHE:CZ	1:B:706:LEU:CA	2.94	0.50
1:B:393:PRO:HA	1:B:530:MET:HA	1.93	0.50
1:B:509:GLY:C	1:B:564:ILE:HG13	2.36	0.50
1:B:511:ARG:HG3	1:B:560:ASP:HA	1.94	0.50
1:B:533:MET:HG2	1:B:534:ASP:H	1.76	0.50
1:B:741:ALA:N	1:B:742:PRO:HD2	2.27	0.50
1:A:23:GLU:HB2	1:A:174:LYS:HG3	1.93	0.50
1:A:184:ARG:NE	1:A:200:ASP:OD2	2.45	0.50
1:A:213:ASP:HA	1:A:245:VAL:O	2.12	0.50
1:A:341:VAL:O	1:A:344:THR:CG2	2.56	0.50
1:A:347:ALA:HA	1:A:363:LEU:HD21	1.94	0.50
1:A:428:LYS:O	1:A:432:TYR:CD2	2.65	0.50
1:A:511:ARG:HG3	1:A:560:ASP:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:715:ARG:HG2	1:A:790:PHE:HB3	1.90	0.50
1:A:778:TYR:OH	1:B:310:VAL:CG1	2.60	0.50
1:A:807:TRP:CD1	1:A:807:TRP:N	2.79	0.50
1:B:182:VAL:HG22	1:B:183:LEU:N	2.27	0.50
1:B:634:ASP:CG	1:B:635:GLY:N	2.69	0.50
1:B:857:VAL:HG23	1:B:858:VAL:N	2.27	0.50
1:B:912:VAL:CG1	1:B:915:GLN:HB2	2.42	0.50
1:A:74:VAL:HG21	1:A:76:PRO:CD	2.21	0.49
1:A:182:VAL:HG22	1:A:183:LEU:N	2.27	0.49
1:A:230:LEU:HD23	1:A:268:PHE:CE2	2.36	0.49
1:A:251:VAL:HG13	1:A:253:ARG:HD2	1.93	0.49
1:A:305:LEU:HD12	1:A:330:THR:CA	2.42	0.49
1:A:390:LEU:N	1:A:422:ILE:CD1	2.63	0.49
1:A:485:GLU:N	1:A:524:TRP:C	2.70	0.49
1:A:698:LEU:CD2	1:A:805:GLU:CA	2.90	0.49
1:A:766:LEU:O	1:A:770:THR:CG2	2.55	0.49
1:A:779:ALA:HB1	1:A:800:GLN:OE1	2.11	0.49
1:A:810:PHE:HB3	1:A:868:PHE:HE2	1.75	0.49
1:B:81:GLN:C	1:B:83:ASP:N	2.70	0.49
1:B:181:VAL:CG2	1:B:203:GLN:HB3	2.42	0.49
1:B:251:VAL:HG13	1:B:253:ARG:CD	2.42	0.49
1:B:375:LEU:HG	1:B:630:ALA:HB3	1.94	0.49
1:B:394:TYR:CZ	1:B:529:ILE:CD1	2.95	0.49
1:B:427:LEU:HA	1:B:440:LEU:CD2	2.26	0.49
1:B:697:ALA:HB1	1:B:768:VAL:CG1	2.41	0.49
1:B:796:VAL:HG13	1:B:800:GLN:HG3	1.93	0.49
1:B:853:SER:HA	1:B:857:VAL:CG1	2.41	0.49
1:A:24:LYS:HG2	1:A:25:ALA:N	2.27	0.49
1:A:155:ALA:O	1:A:158:GLY:CA	2.58	0.49
1:A:204:VAL:HG23	1:A:208:THR:HG21	1.92	0.49
1:A:225:VAL:HB	1:A:239:LYS:HE3	1.93	0.49
1:A:274:ALA:CB	1:A:275:LEU:CD1	2.90	0.49
1:A:315:ARG:HG3	1:A:317:ASN:ND2	2.26	0.49
1:A:484:VAL:HG21	1:A:526:ILE:CB	2.39	0.49
1:A:859:ARG:CG	1:B:309:TRP:CH2	2.77	0.49
1:B:225:VAL:HB	1:B:239:LYS:HE3	1.93	0.49
1:B:356:LYS:C	1:B:358:ALA:N	2.68	0.49
1:B:545:CYS:O	1:B:549:THR:HG23	2.12	0.49
1:B:633:GLY:O	1:B:634:ASP:HB2	2.12	0.49
1:A:31:TYR:CD1	1:A:98:ARG:CB	2.84	0.49
1:A:246:PHE:CD1	1:A:268:PHE:CE2	2.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:315:ARG:O	1:A:316:SER:CB	2.60	0.49
1:A:371:GLY:C	1:A:748:VAL:HG11	2.38	0.49
1:A:375:LEU:HG	1:A:630:ALA:HB3	1.94	0.49
1:A:394:TYR:CZ	1:A:529:ILE:CD1	2.95	0.49
1:A:456:LYS:CD	1:A:476:ALA:HB3	2.42	0.49
1:A:775:THR:O	1:A:779:ALA:HB2	2.12	0.49
1:B:49:ILE:CD1	1:B:275:LEU:C	2.81	0.49
1:B:293:ILE:HD13	1:B:756:TRP:CD2	2.44	0.49
1:B:305:LEU:HD12	1:B:330:THR:CA	2.42	0.49
1:B:309:TRP:CZ3	1:B:310:VAL:CG2	2.95	0.49
1:B:315:ARG:O	1:B:316:SER:CB	2.60	0.49
1:B:337:GLY:O	1:B:341:VAL:HB	2.12	0.49
1:B:347:ALA:HA	1:B:363:LEU:HD21	1.94	0.49
1:B:485:GLU:N	1:B:524:TRP:C	2.70	0.49
1:B:526:ILE:O	1:B:526:ILE:HG13	2.12	0.49
1:A:93:VAL:HG21	1:A:197:VAL:HB	1.93	0.49
1:A:396:VAL:O	1:A:397:ALA:O	2.30	0.49
1:A:796:VAL:CG1	1:A:800:GLN:CD	2.75	0.49
1:A:853:SER:HA	1:A:857:VAL:CG1	2.41	0.49
1:A:912:VAL:CG1	1:A:915:GLN:HB2	2.42	0.49
1:B:23:GLU:HB2	1:B:174:LYS:HG3	1.93	0.49
1:B:390:LEU:N	1:B:422:ILE:CD1	2.63	0.49
1:B:566:ARG:HE	1:B:567:GLU:CA	2.25	0.49
1:B:903:GLU:O	1:B:907:VAL:CB	2.61	0.49
1:A:84:THR:HB	1:A:215:ARG:CB	2.43	0.49
1:A:100:TYR:HB2	1:A:265:ASP:N	2.28	0.49
1:A:545:CYS:O	1:A:549:THR:HG23	2.12	0.49
1:A:583:ARG:HA	1:A:587:GLY:HA2	1.94	0.49
1:A:691:TYR:CD2	1:A:692:VAL:CG1	2.96	0.49
1:A:694:TYR:O	1:A:808:LEU:CD2	2.60	0.49
1:A:883:GLY:O	1:A:887:LEU:CG	2.58	0.49
1:B:315:ARG:HG3	1:B:317:ASN:ND2	2.26	0.49
1:B:338:LEU:N	1:B:339:PRO:CD	2.75	0.49
1:B:415:LYS:HZ3	1:B:560:ASP:CG	2.21	0.49
1:B:533:MET:O	1:B:534:ASP:CB	2.59	0.49
1:B:695:ARG:O	1:B:699:SER:OG	2.28	0.49
1:B:760:VAL:O	1:B:764:VAL:HG23	2.12	0.49
1:B:796:VAL:CG1	1:B:800:GLN:CD	2.75	0.49
1:A:125:GLN:CD	1:A:151:LEU:HD22	2.29	0.49
1:A:251:VAL:HG13	1:A:253:ARG:CD	2.42	0.49
1:A:337:GLY:O	1:A:341:VAL:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:SER:O	1:A:414:ARG:CB	2.60	0.49
1:A:441:SER:O	1:A:442:LYS:CB	2.60	0.49
1:A:676:ASP:CA	1:A:679:LYS:HG3	2.43	0.49
1:A:904:ASP:O	1:A:905:PHE:C	2.55	0.49
1:B:100:TYR:HB2	1:B:265:ASP:N	2.28	0.49
1:B:106:LYS:HZ3	1:B:361:GLN:NE2	2.07	0.49
1:B:307:ILE:C	1:B:309:TRP:H	2.20	0.49
1:B:520:GLY:O	1:B:521:GLU:HB2	2.12	0.49
1:B:683:GLN:CB	1:B:687:ARG:CZ	2.79	0.49
1:B:904:ASP:O	1:B:905:PHE:C	2.55	0.49
1:A:218:THR:O	1:A:219:ASP:HB2	2.13	0.49
1:A:307:ILE:C	1:A:309:TRP:H	2.19	0.49
1:A:518:LYS:CE	1:A:523:SER:H	2.21	0.49
1:A:526:ILE:HG13	1:A:526:ILE:O	2.12	0.49
1:A:633:GLY:O	1:A:634:ASP:HB2	2.12	0.49
1:A:671:LEU:C	1:A:674:ILE:CD1	2.86	0.49
1:A:694:TYR:HA	1:A:808:LEU:HG	1.94	0.49
1:A:695:ARG:O	1:A:699:SER:OG	2.28	0.49
1:A:732:ALA:O	1:A:735:ALA:N	2.46	0.49
1:A:742:PRO:O	1:A:745:GLN:N	2.45	0.49
1:B:75:VAL:HG12	1:B:75:VAL:O	2.12	0.49
1:B:511:ARG:CD	1:B:511:ARG:C	2.86	0.49
1:B:671:LEU:HA	1:B:674:ILE:HD13	1.92	0.49
1:B:686:HIS:HB2	1:B:740:ASN:HD21	1.76	0.49
1:B:691:TYR:CD2	1:B:692:VAL:CG1	2.96	0.49
1:B:720:GLU:C	1:B:723:VAL:HG22	2.29	0.49
1:B:739:ASP:OD1	1:B:739:ASP:N	2.44	0.49
1:B:742:PRO:O	1:B:745:GLN:N	2.45	0.49
1:A:24:LYS:HG3	1:A:171:GLU:CA	2.40	0.49
1:A:183:LEU:CD2	1:A:188:LEU:CG	2.71	0.49
1:A:596:GLU:C	1:A:600:PHE:CE2	2.90	0.49
1:A:679:LYS:HA	1:A:682:ARG:HD2	1.88	0.49
1:A:733:THR:C	1:A:735:ALA:N	2.69	0.49
1:A:770:THR:O	1:A:773:THR:CG2	2.60	0.49
1:A:780:GLN:HG3	1:A:783:ASN:CG	2.37	0.49
1:A:796:VAL:HG13	1:A:800:GLN:HG3	1.93	0.49
1:B:332:ILE:HG23	1:B:333:GLY:H	1.77	0.49
1:B:374:ILE:HD13	1:B:553:SER:CB	2.22	0.49
1:B:441:SER:O	1:B:442:LYS:CB	2.61	0.49
1:B:518:LYS:O	1:B:519:ARG:CB	2.55	0.49
1:B:546:GLU:HB2	1:B:675:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:671:LEU:C	1:B:674:ILE:CD1	2.86	0.49
1:B:775:THR:O	1:B:779:ALA:HB2	2.12	0.49
1:A:75:VAL:HG12	1:A:75:VAL:O	2.12	0.49
1:A:293:ILE:HD13	1:A:756:TRP:CD2	2.44	0.49
1:A:309:TRP:CZ3	1:A:310:VAL:CG2	2.95	0.49
1:A:385:LYS:HE3	1:A:536:PRO:C	2.37	0.49
1:A:445:VAL:HG11	1:A:448:PHE:CZ	2.48	0.49
1:A:566:ARG:HE	1:A:567:GLU:CA	2.25	0.49
1:A:580:ASN:CG	1:A:584:LEU:O	2.55	0.49
1:A:643:LYS:HG3	1:A:644:LYS:N	2.28	0.49
1:A:657:ALA:O	1:A:660:SER:HB2	2.13	0.49
1:A:760:VAL:O	1:A:764:VAL:HG23	2.12	0.49
1:A:764:VAL:CG1	1:A:871:MET:HE1	2.43	0.49
1:B:49:ILE:CG1	1:B:275:LEU:O	2.59	0.49
1:B:184:ARG:NE	1:B:200:ASP:OD2	2.45	0.49
1:B:357:LYS:HD2	1:B:667:LEU:HD23	1.95	0.49
1:B:456:LYS:CD	1:B:476:ALA:HB3	2.42	0.49
1:B:498:TYR:HH	1:B:529:ILE:HG21	1.78	0.49
1:B:675:ILE:C	1:B:679:LYS:CE	2.83	0.49
1:B:698:LEU:CD2	1:B:805:GLU:CA	2.90	0.49
1:B:770:THR:O	1:B:773:THR:CG2	2.60	0.49
1:A:191:ILE:CD1	1:A:192:GLU:H	2.18	0.49
1:A:210:ILE:CG1	1:A:245:VAL:HG23	2.30	0.49
1:A:269:VAL:O	1:A:269:VAL:CG1	2.56	0.49
1:A:471:THR:CB	1:A:519:ARG:N	2.66	0.49
1:A:511:ARG:CD	1:A:511:ARG:C	2.86	0.49
1:B:183:LEU:HD23	1:B:188:LEU:CA	2.31	0.49
1:B:246:PHE:HZ	1:B:248:SER:CB	1.89	0.49
1:B:371:GLY:O	1:B:748:VAL:CG1	2.57	0.49
1:B:371:GLY:C	1:B:748:VAL:HG11	2.38	0.49
1:B:600:PHE:CD1	1:B:907:VAL:HG22	2.36	0.49
1:B:639:ALA:N	1:B:640:PRO:HD2	2.28	0.49
1:B:676:ASP:CA	1:B:679:LYS:HG3	2.43	0.49
1:B:694:TYR:HA	1:B:808:LEU:HG	1.94	0.49
1:B:764:VAL:CG1	1:B:871:MET:HE1	2.43	0.49
1:A:74:VAL:HG21	1:A:76:PRO:HG2	1.95	0.48
1:A:94:VAL:O	1:A:98:ARG:CD	2.61	0.48
1:A:181:VAL:CG2	1:A:203:GLN:HB3	2.42	0.48
1:A:206:GLU:CA	1:A:252:LYS:HA	2.43	0.48
1:A:324:GLU:O	1:A:328:ALA:HB2	2.13	0.48
1:B:267:THR:HG22	1:B:268:PHE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:ILE:HD13	1:B:702:LEU:CB	2.42	0.48
1:B:396:VAL:O	1:B:397:ALA:O	2.30	0.48
1:B:581:ALA:CA	1:B:586:LEU:CD2	2.72	0.48
1:B:643:LYS:HG3	1:B:644:LYS:N	2.28	0.48
1:B:768:VAL:CG2	1:B:811:ILE:CD1	2.77	0.48
1:B:780:GLN:HG3	1:B:783:ASN:CG	2.37	0.48
1:A:219:ASP:HB3	1:A:255:GLU:O	2.13	0.48
1:A:373:GLU:O	1:A:552:LEU:HA	2.14	0.48
1:A:506:ALA:CB	1:A:510:PHE:CE2	2.84	0.48
1:A:513:LEU:CD1	1:A:515:VAL:CG1	2.87	0.48
1:A:520:GLY:O	1:A:521:GLU:HB2	2.12	0.48
1:A:533:MET:O	1:A:534:ASP:CB	2.59	0.48
1:A:768:VAL:O	1:A:772:ILE:HD13	2.13	0.48
1:A:899:GLN:O	1:A:903:GLU:HG3	2.14	0.48
1:B:24:LYS:HG2	1:B:25:ALA:N	2.27	0.48
1:B:209:ILE:O	1:B:211:PRO:HD3	2.12	0.48
1:B:247:ALA:HB3	1:B:269:VAL:HG11	1.94	0.48
1:B:251:VAL:HG13	1:B:253:ARG:HD2	1.93	0.48
1:B:274:ALA:CB	1:B:275:LEU:CD1	2.90	0.48
1:B:413:SER:O	1:B:414:ARG:CB	2.60	0.48
1:B:498:TYR:CE1	1:B:529:ILE:HG23	2.33	0.48
1:B:768:VAL:O	1:B:772:ILE:HD13	2.13	0.48
1:B:780:GLN:HE22	1:B:792:ASN:HB3	1.77	0.48
1:B:804:THR:O	1:B:805:GLU:C	2.56	0.48
1:A:82:THR:CG2	1:A:83:ASP:N	2.76	0.48
1:A:191:ILE:HD12	1:A:195:GLU:CB	2.32	0.48
1:A:557:LEU:HA	1:A:607:PHE:CE2	2.47	0.48
1:B:206:GLU:CA	1:B:252:LYS:HA	2.43	0.48
1:B:214:GLY:O	1:B:244:GLN:HA	2.14	0.48
1:B:428:LYS:O	1:B:432:TYR:CD2	2.65	0.48
1:B:445:VAL:HG11	1:B:448:PHE:CZ	2.48	0.48
1:B:557:LEU:HA	1:B:607:PHE:CE2	2.47	0.48
1:B:570:ARG:CA	1:B:575:GLY:O	2.37	0.48
1:B:644:LYS:HB2	1:B:644:LYS:NZ	2.28	0.48
1:B:792:ASN:HB3	1:B:852:THR:CG2	2.43	0.48
1:A:192:GLU:CG	1:A:195:GLU:H	2.15	0.48
1:A:459:VAL:HG11	1:A:471:THR:HG22	1.94	0.48
1:A:644:LYS:HB2	1:A:644:LYS:NZ	2.28	0.48
1:A:724:PHE:CD2	1:A:798:PHE:HZ	2.31	0.48
1:A:741:ALA:N	1:A:742:PRO:HD2	2.27	0.48
1:A:810:PHE:CZ	1:A:823:PRO:CD	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:903:GLU:O	1:A:907:VAL:CB	2.61	0.48
1:B:411:ALA:O	1:B:515:VAL:HB	2.11	0.48
1:B:580:ASN:CG	1:B:584:LEU:O	2.55	0.48
1:B:600:PHE:CZ	1:B:907:VAL:CG2	2.87	0.48
1:B:768:VAL:HG13	1:B:769:GLY:N	2.27	0.48
1:B:852:THR:HB	1:B:856:ALA:CB	2.43	0.48
1:A:191:ILE:HD13	1:A:192:GLU:N	2.20	0.48
1:A:214:GLY:O	1:A:244:GLN:HA	2.14	0.48
1:A:407:THR:HG21	1:A:517:ARG:CB	2.27	0.48
1:A:800:GLN:O	1:A:804:THR:HG23	2.14	0.48
1:A:804:THR:HA	1:A:807:TRP:CG	2.44	0.48
1:B:324:GLU:O	1:B:328:ALA:HB2	2.13	0.48
1:B:373:GLU:O	1:B:552:LEU:HA	2.14	0.48
1:B:583:ARG:HA	1:B:587:GLY:HA2	1.94	0.48
1:B:650:ALA:CB	1:B:659:ARG:HG2	2.33	0.48
1:B:732:ALA:O	1:B:735:ALA:N	2.46	0.48
1:B:796:VAL:CG2	1:B:852:THR:OG1	2.61	0.48
1:A:28:ALA:CB	1:A:170:ASP:CG	2.77	0.48
1:A:37:VAL:C	1:A:38:GLU:CG	2.82	0.48
1:A:511:ARG:HA	1:A:564:ILE:HD12	1.88	0.48
1:A:515:VAL:HG23	1:A:528:GLY:H	1.79	0.48
1:A:546:GLU:OE1	1:A:679:LYS:CD	2.57	0.48
1:A:639:ALA:N	1:A:640:PRO:HD2	2.28	0.48
1:A:796:VAL:CG2	1:A:852:THR:OG1	2.61	0.48
1:B:24:LYS:HG3	1:B:171:GLU:CA	2.40	0.48
1:B:94:VAL:O	1:B:98:ARG:CD	2.61	0.48
1:B:430:LEU:CA	1:B:433:TYR:HD2	2.26	0.48
1:B:484:VAL:C	1:B:524:TRP:CG	2.92	0.48
1:B:515:VAL:HG23	1:B:528:GLY:H	1.79	0.48
1:B:689:TYR:C	1:B:692:VAL:HG22	2.35	0.48
1:B:695:ARG:NH1	1:B:699:SER:OG	2.47	0.48
1:B:725:ILE:HD13	1:B:729:ALA:CB	2.44	0.48
1:A:75:VAL:O	1:A:78:ASP:O	2.32	0.48
1:A:193:ALA:O	1:A:196:VAL:HG23	2.03	0.48
1:A:216:ILE:O	1:A:242:GLY:HA2	2.14	0.48
1:A:267:THR:HG22	1:A:268:PHE:N	2.28	0.48
1:A:293:ILE:CG2	1:A:294:GLY:N	2.77	0.48
1:A:386:ASN:C	1:A:387:LYS:O	2.54	0.48
1:A:727:ILE:HD12	1:A:728:PHE:CA	2.43	0.48
1:B:75:VAL:O	1:B:78:ASP:O	2.32	0.48
1:B:192:GLU:O	1:B:196:VAL:N	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:GLY:N	1:B:245:VAL:O	2.39	0.48
1:B:219:ASP:HB3	1:B:255:GLU:O	2.13	0.48
1:B:407:THR:CA	1:B:527:LEU:CD1	2.89	0.48
1:B:458:VAL:C	1:B:459:VAL:CG2	2.86	0.48
1:B:511:ARG:HA	1:B:564:ILE:HD12	1.89	0.48
1:B:596:GLU:C	1:B:600:PHE:CE2	2.90	0.48
1:B:615:LYS:O	1:B:619:VAL:HG22	2.13	0.48
1:B:657:ALA:O	1:B:660:SER:HB2	2.13	0.48
1:B:724:PHE:CD2	1:B:798:PHE:HZ	2.31	0.48
1:B:899:GLN:O	1:B:903:GLU:HG3	2.14	0.48
1:A:360:VAL:HG22	1:A:664:ILE:HG13	1.96	0.48
1:A:363:LEU:H	1:A:363:LEU:HD12	1.79	0.48
1:A:377:SER:N	1:A:555:LYS:O	2.42	0.48
1:A:540:THR:HG23	1:A:541:TYR:N	2.28	0.48
1:A:705:PHE:HA	1:A:708:LEU:HD13	1.95	0.48
1:A:792:ASN:HB3	1:A:852:THR:CG2	2.43	0.48
1:A:804:THR:HA	1:A:807:TRP:CE2	2.47	0.48
1:A:827:LEU:C	1:A:827:LEU:CD1	2.85	0.48
1:A:852:THR:HB	1:A:856:ALA:CB	2.43	0.48
1:B:178:LEU:CD2	1:B:659:ARG:NH2	2.64	0.48
1:B:293:ILE:HD13	1:B:756:TRP:CE2	2.49	0.48
1:B:372:VAL:HG12	1:B:552:LEU:HD13	1.96	0.48
1:B:610:VAL:HG12	1:B:611:PHE:H	1.78	0.48
1:B:615:LYS:HA	1:B:618:VAL:HG22	1.95	0.48
1:B:698:LEU:HD22	1:B:805:GLU:HA	1.96	0.48
1:B:800:GLN:O	1:B:804:THR:HG23	2.14	0.48
1:A:49:ILE:CD1	1:A:275:LEU:C	2.81	0.48
1:A:225:VAL:CB	1:A:239:LYS:HE3	2.44	0.48
1:A:357:LYS:HD2	1:A:667:LEU:HD23	1.95	0.48
1:A:448:PHE:O	1:A:450:PRO:HD3	2.14	0.48
1:A:484:VAL:C	1:A:524:TRP:CG	2.92	0.48
1:A:498:TYR:HH	1:A:529:ILE:HG21	1.79	0.48
1:A:697:ALA:O	1:A:700:ILE:CG2	2.47	0.48
1:A:698:LEU:HD22	1:A:805:GLU:HA	1.96	0.48
1:A:721:LEU:CD2	1:A:841:PHE:CE2	2.96	0.48
1:A:795:GLU:O	1:A:799:LEU:CG	2.57	0.48
1:B:74:VAL:HG21	1:B:76:PRO:HG2	1.95	0.48
1:B:202:LEU:CD2	1:B:260:ILE:CG1	2.91	0.48
1:B:293:ILE:HD13	1:B:756:TRP:CE3	2.13	0.48
1:B:360:VAL:HG22	1:B:664:ILE:HG13	1.96	0.48
1:B:401:PRO:HD2	1:B:404:LEU:CD2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:CYS:CB	1:B:439:VAL:CG2	2.91	0.48
1:B:660:SER:C	1:B:662:ALA:H	2.22	0.48
1:B:728:PHE:CE1	1:B:805:GLU:OE1	2.67	0.48
1:A:110:GLU:OE1	1:A:110:GLU:HA	2.14	0.48
1:A:267:THR:HG21	1:A:270:GLY:HA3	1.96	0.48
1:A:374:ILE:HD12	1:A:555:LYS:HZ2	1.76	0.48
1:A:430:LEU:CA	1:A:433:TYR:HD2	2.26	0.48
1:A:481:LEU:HD13	1:A:498:TYR:CZ	2.48	0.48
1:A:695:ARG:NH1	1:A:699:SER:OG	2.47	0.48
1:A:804:THR:O	1:A:805:GLU:C	2.56	0.48
1:B:37:VAL:C	1:B:38:GLU:CG	2.82	0.48
1:B:69:PRO:C	1:B:75:VAL:CG2	2.82	0.48
1:B:338:LEU:C	1:B:338:LEU:CD2	2.87	0.48
1:B:540:THR:HG23	1:B:541:TYR:N	2.28	0.48
1:A:106:LYS:CE	1:A:361:GLN:NE2	2.73	0.47
1:A:161:GLN:NE2	1:A:337:GLY:HA2	2.28	0.47
1:A:183:LEU:CD1	1:A:257:PHE:HZ	2.27	0.47
1:A:320:VAL:O	1:A:323:LEU:HB3	2.14	0.47
1:A:325:PHE:CE1	1:A:710:ILE:HD11	2.50	0.47
1:A:518:LYS:CD	1:A:523:SER:CA	2.75	0.47
1:A:546:GLU:HB2	1:A:675:ILE:CG2	2.42	0.47
1:A:615:LYS:O	1:A:619:VAL:HG22	2.13	0.47
1:A:725:ILE:HD13	1:A:729:ALA:CB	2.44	0.47
1:A:773:THR:HG23	1:A:774:VAL:N	2.29	0.47
1:A:778:TYR:HE1	1:A:782:GLU:OE2	1.92	0.47
1:A:794:ASP:CG	1:A:795:GLU:N	2.72	0.47
1:A:919:SER:C	1:A:920:GLN:OXT	2.55	0.47
1:B:82:THR:CG2	1:B:83:ASP:N	2.76	0.47
1:B:110:GLU:OE1	1:B:110:GLU:HA	2.14	0.47
1:B:191:ILE:CD1	1:B:192:GLU:H	2.18	0.47
1:B:215:ARG:C	1:B:215:ARG:HD2	2.39	0.47
1:B:470:ILE:HD12	1:B:517:ARG:HD3	1.89	0.47
1:B:694:TYR:HE1	1:B:809:ILE:H	1.58	0.47
1:B:705:PHE:HA	1:B:708:LEU:HD13	1.95	0.47
1:B:721:LEU:CD2	1:B:841:PHE:CE2	2.96	0.47
1:B:727:ILE:HD12	1:B:728:PHE:CA	2.44	0.47
1:B:752:LEU:CB	1:B:753:PRO:CD	2.67	0.47
1:B:773:THR:HG23	1:B:774:VAL:N	2.29	0.47
1:A:372:VAL:HG12	1:A:552:LEU:HD13	1.96	0.47
1:A:409:CYS:CB	1:A:439:VAL:CG2	2.91	0.47
1:A:694:TYR:HE1	1:A:809:ILE:H	1.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:GLY:CA	1:B:230:LEU:HD21	2.33	0.47
1:B:93:VAL:CG1	1:B:197:VAL:HG11	2.19	0.47
1:B:94:VAL:HG13	1:B:98:ARG:NH2	2.28	0.47
1:B:138:LEU:CD2	1:B:140:ASP:HB2	2.45	0.47
1:B:320:VAL:O	1:B:323:LEU:HB3	2.14	0.47
1:B:334:VAL:HG23	1:B:334:VAL:O	2.14	0.47
1:B:445:VAL:HG12	1:B:448:PHE:CZ	2.49	0.47
1:B:583:ARG:HB3	1:B:603:ALA:CB	2.35	0.47
1:B:780:GLN:NE2	1:B:792:ASN:CB	2.76	0.47
1:A:251:VAL:CG1	1:A:253:ARG:HD2	2.44	0.47
1:A:445:VAL:HG12	1:A:448:PHE:CZ	2.49	0.47
1:A:502:VAL:CG1	1:A:503:ALA:N	2.77	0.47
1:A:615:LYS:HA	1:A:618:VAL:HG22	1.95	0.47
1:B:143:ASP:HA	1:B:146:VAL:HG22	1.97	0.47
1:B:153:LEU:HD13	1:B:727:ILE:CG2	2.41	0.47
1:B:318:PRO:C	1:B:320:VAL:N	2.72	0.47
1:B:399:VAL:CA	1:B:401:PRO:HD2	2.45	0.47
1:B:401:PRO:CG	1:B:487:ASP:OD2	2.56	0.47
1:B:485:GLU:CA	1:B:490:ILE:CG1	2.90	0.47
1:A:82:THR:HG22	1:A:83:ASP:N	2.29	0.47
1:A:96:ARG:HH11	1:A:96:ARG:HG3	1.69	0.47
1:A:112:HIS:CD2	1:A:113:PHE:H	2.33	0.47
1:A:215:ARG:C	1:A:215:ARG:HD2	2.39	0.47
1:A:413:SER:OG	1:A:474:LYS:CE	2.62	0.47
1:A:453:PRO:HB3	1:A:592:MET:HB3	0.65	0.47
1:A:592:MET:CG	1:A:593:PRO:CD	2.93	0.47
1:B:150:LEU:HD13	1:B:723:VAL:CA	2.44	0.47
1:B:161:GLN:NE2	1:B:337:GLY:HA2	2.28	0.47
1:B:325:PHE:CE1	1:B:710:ILE:HD11	2.50	0.47
1:B:448:PHE:O	1:B:450:PRO:HD3	2.14	0.47
1:B:481:LEU:HD13	1:B:498:TYR:CZ	2.48	0.47
1:B:502:VAL:CG1	1:B:503:ALA:N	2.77	0.47
1:B:698:LEU:CD1	1:B:805:GLU:CB	2.93	0.47
1:B:715:ARG:HG2	1:B:790:PHE:HB3	1.90	0.47
1:A:216:ILE:HB	1:A:243:ASP:N	2.30	0.47
1:A:357:LYS:CB	1:A:668:ALA:HB2	2.43	0.47
1:A:401:PRO:HD2	1:A:404:LEU:CD2	2.44	0.47
1:A:600:PHE:CZ	1:A:907:VAL:CG2	2.87	0.47
1:A:601:VAL:C	1:A:603:ALA:N	2.72	0.47
1:A:693:VAL:CG1	1:A:694:TYR:N	2.78	0.47
1:A:725:ILE:HG23	1:A:726:ALA:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:728:PHE:CE1	1:A:805:GLU:OE1	2.67	0.47
1:A:768:VAL:O	1:A:772:ILE:CD1	2.63	0.47
1:A:857:VAL:HG23	1:A:858:VAL:N	2.27	0.47
1:B:183:LEU:CD1	1:B:257:PHE:HZ	2.27	0.47
1:B:225:VAL:CB	1:B:239:LYS:HE3	2.44	0.47
1:B:230:LEU:HD23	1:B:268:PHE:CE2	2.36	0.47
1:B:374:ILE:HD12	1:B:555:LYS:HZ3	1.77	0.47
1:B:468:GLU:C	1:B:469:ARG:CG	2.86	0.47
1:B:517:ARG:HD2	1:B:518:LYS:CA	2.43	0.47
1:B:685:PHE:CE1	1:B:749:LYS:HE2	2.47	0.47
1:A:138:LEU:CD2	1:A:140:ASP:HB2	2.45	0.47
1:A:176:LEU:O	1:A:359:ILE:CD1	2.63	0.47
1:A:394:TYR:CZ	1:A:529:ILE:CG1	2.98	0.47
1:A:485:GLU:CB	1:A:524:TRP:CD1	2.92	0.47
1:A:769:GLY:O	1:A:773:THR:HG22	2.15	0.47
1:A:804:THR:O	1:A:807:TRP:HB2	2.15	0.47
1:A:813:ARG:CG	1:A:814:ALA:N	2.77	0.47
1:B:176:LEU:O	1:B:359:ILE:CD1	2.63	0.47
1:B:309:TRP:CH2	1:B:310:VAL:HB	2.23	0.47
1:B:765:VAL:CG1	1:B:766:LEU:N	2.78	0.47
1:B:768:VAL:O	1:B:772:ILE:CD1	2.63	0.47
1:A:69:PRO:C	1:A:75:VAL:CG2	2.82	0.47
1:A:71:GLY:CA	1:A:230:LEU:HD21	2.33	0.47
1:A:94:VAL:HG13	1:A:98:ARG:NH2	2.28	0.47
1:A:143:ASP:HA	1:A:146:VAL:HG22	1.96	0.47
1:A:217:VAL:HG12	1:A:257:PHE:HB3	1.88	0.47
1:A:293:ILE:HD13	1:A:756:TRP:CE2	2.49	0.47
1:A:318:PRO:C	1:A:320:VAL:N	2.72	0.47
1:A:319:ILE:CA	1:A:322:ILE:CG1	2.90	0.47
1:A:334:VAL:O	1:A:334:VAL:HG23	2.14	0.47
1:A:384:THR:OG1	1:A:534:ASP:OD2	2.29	0.47
1:A:415:LYS:HZ1	1:A:511:ARG:HB3	1.75	0.47
1:A:485:GLU:CA	1:A:490:ILE:CG1	2.90	0.47
1:A:543:THR:O	1:A:675:ILE:CG2	2.61	0.47
1:A:801:ILE:CG2	1:A:805:GLU:OE2	2.62	0.47
1:B:1:MET:C	1:B:3:ASP:N	2.67	0.47
1:B:185:ASP:OD2	1:B:189:LYS:CD	2.55	0.47
1:B:290:LEU:HD21	1:B:688:MET:HE2	1.97	0.47
1:B:293:ILE:CG2	1:B:294:GLY:N	2.77	0.47
1:B:341:VAL:C	1:B:344:THR:HG22	2.40	0.47
1:B:363:LEU:HD12	1:B:363:LEU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:547:ALA:HB2	1:B:675:ILE:CD1	2.45	0.47
1:A:81:GLN:C	1:A:83:ASP:N	2.71	0.47
1:A:178:LEU:CD2	1:A:659:ARG:NH2	2.64	0.47
1:A:210:ILE:HG21	1:A:245:VAL:O	2.15	0.47
1:A:695:ARG:HD2	1:A:699:SER:OG	2.15	0.47
1:B:216:ILE:O	1:B:242:GLY:HA2	2.14	0.47
1:B:456:LYS:HZ3	1:B:476:ALA:CB	2.20	0.47
1:B:675:ILE:O	1:B:679:LYS:HG2	2.09	0.47
1:B:695:ARG:HD2	1:B:699:SER:OG	2.15	0.47
1:B:807:TRP:CD1	1:B:807:TRP:N	2.79	0.47
1:B:891:LYS:C	1:B:893:PRO:N	2.72	0.47
1:A:35:PRO:O	1:A:36:LYS:C	2.58	0.47
1:A:125:GLN:NE2	1:A:154:ASN:OD1	2.48	0.47
1:A:400:ASP:H	1:A:404:LEU:CD2	2.19	0.47
1:A:470:ILE:HD12	1:A:517:ARG:HD3	1.89	0.47
1:A:547:ALA:HB2	1:A:675:ILE:CD1	2.45	0.47
1:A:581:ALA:CA	1:A:586:LEU:CD2	2.72	0.47
1:A:682:ARG:HH11	1:A:744:SER:CB	2.12	0.47
1:A:804:THR:C	1:A:806:ASN:N	2.70	0.47
1:B:55:HIS:O	1:B:56:ASP:O	2.33	0.47
1:B:146:VAL:HG23	1:B:719:ILE:CG1	2.37	0.47
1:B:218:THR:O	1:B:219:ASP:HB2	2.13	0.47
1:B:394:TYR:CZ	1:B:529:ILE:CG1	2.98	0.47
1:B:502:VAL:HG23	1:B:510:PHE:HZ	1.69	0.47
1:B:607:PHE:HE1	1:B:610:VAL:CB	2.28	0.47
1:B:782:GLU:CG	1:B:783:ASN:N	2.48	0.47
1:A:49:ILE:CG2	1:A:275:LEU:O	2.63	0.47
1:A:120:PHE:C	1:A:123:PRO:CD	2.84	0.47
1:A:683:GLN:CD	1:A:743:TYR:CE1	2.91	0.47
1:A:771:TRP:HZ2	1:A:863:PHE:CE2	2.32	0.47
1:B:183:LEU:HD23	1:B:188:LEU:HG	1.88	0.47
1:B:246:PHE:HB2	1:B:268:PHE:HD2	1.61	0.47
1:B:267:THR:HG21	1:B:270:GLY:HA3	1.96	0.47
1:B:363:LEU:HD12	1:B:363:LEU:N	2.30	0.47
1:B:385:LYS:CE	1:B:537:ARG:HG3	2.45	0.47
1:B:453:PRO:HB3	1:B:592:MET:HB3	0.65	0.47
1:B:801:ILE:CG2	1:B:805:GLU:OE2	2.62	0.47
1:B:804:THR:C	1:B:806:ASN:N	2.70	0.47
1:A:293:ILE:HG23	1:A:294:GLY:N	2.30	0.46
1:A:371:GLY:HA2	1:A:748:VAL:HG13	1.97	0.46
1:A:390:LEU:HD23	1:A:532:CYS:HB2	0.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:610:VAL:HG12	1:A:611:PHE:H	1.78	0.46
1:A:675:ILE:C	1:A:679:LYS:CE	2.83	0.46
1:A:715:ARG:CG	1:A:790:PHE:CG	2.70	0.46
1:B:74:VAL:HG21	1:B:76:PRO:CG	2.44	0.46
1:B:82:THR:HG22	1:B:83:ASP:N	2.29	0.46
1:B:216:ILE:HB	1:B:243:ASP:N	2.30	0.46
1:B:246:PHE:HB3	1:B:268:PHE:CD2	2.36	0.46
1:B:293:ILE:HG23	1:B:294:GLY:N	2.30	0.46
1:B:485:GLU:CB	1:B:524:TRP:CD1	2.92	0.46
1:B:683:GLN:CD	1:B:743:TYR:CE1	2.91	0.46
1:B:690:ALA:O	1:B:812:THR:HG22	2.15	0.46
1:B:730:ASP:O	1:B:734:LEU:CD2	2.63	0.46
1:B:771:TRP:HZ2	1:B:863:PHE:CE2	2.32	0.46
1:A:54:SER:OG	1:A:55:HIS:N	2.36	0.46
1:A:146:VAL:HG23	1:A:719:ILE:CG1	2.37	0.46
1:A:202:LEU:CD2	1:A:260:ILE:CG1	2.91	0.46
1:A:596:GLU:C	1:A:600:PHE:HE2	2.23	0.46
1:A:598:TYR:CD1	1:A:598:TYR:C	2.94	0.46
1:A:698:LEU:CD1	1:A:805:GLU:CA	2.93	0.46
1:A:780:GLN:NE2	1:A:792:ASN:CB	2.76	0.46
1:A:795:GLU:OE2	1:A:849:HIS:C	2.59	0.46
1:A:891:LYS:C	1:A:893:PRO:N	2.73	0.46
1:B:9:ALA:N	1:B:10:PRO:HD2	2.30	0.46
1:B:84:THR:HB	1:B:215:ARG:CB	2.43	0.46
1:B:100:TYR:CB	1:B:264:GLY:CA	2.80	0.46
1:B:125:GLN:NE2	1:B:154:ASN:OD1	2.48	0.46
1:B:251:VAL:CG1	1:B:253:ARG:HD2	2.44	0.46
1:B:518:LYS:CE	1:B:523:SER:H	2.21	0.46
1:B:582:GLU:O	1:B:583:ARG:HB3	2.16	0.46
1:B:715:ARG:HB2	1:B:790:PHE:CD2	2.50	0.46
1:B:819:TRP:O	1:B:819:TRP:CG	2.67	0.46
1:A:41:GLU:O	1:A:45:ILE:HG23	2.16	0.46
1:A:143:ASP:CA	1:A:146:VAL:HG22	2.46	0.46
1:A:246:PHE:CB	1:A:268:PHE:CB	2.88	0.46
1:A:546:GLU:CD	1:A:679:LYS:HZ1	2.23	0.46
1:A:603:ALA:O	1:A:604:ALA:HB3	2.16	0.46
1:A:736:ILE:HD13	1:A:827:LEU:CD2	2.26	0.46
1:A:771:TRP:CH2	1:B:303:PHE:HE1	2.31	0.46
1:B:70:GLY:CA	1:B:268:PHE:HE1	2.13	0.46
1:B:143:ASP:CA	1:B:146:VAL:HG22	2.46	0.46
1:B:360:VAL:HG22	1:B:664:ILE:HG21	1.87	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:374:ILE:HD12	1:B:555:LYS:HZ2	1.78	0.46
1:B:533:MET:CG	1:B:534:ASP:N	2.71	0.46
1:B:566:ARG:HH22	1:B:570:ARG:HH11	1.26	0.46
1:B:733:THR:C	1:B:735:ALA:N	2.69	0.46
1:B:742:PRO:C	1:B:744:SER:N	2.62	0.46
1:A:53:GLU:OE2	1:A:272:ALA:CA	2.46	0.46
1:A:96:ARG:HG3	1:A:96:ARG:NH1	2.28	0.46
1:A:290:LEU:HD21	1:A:688:MET:HE2	1.97	0.46
1:A:301:VAL:HG21	1:A:333:GLY:HA3	1.97	0.46
1:A:383:LEU:CD1	1:A:556:MET:HE2	2.46	0.46
1:A:511:ARG:C	1:A:531:PRO:HA	2.40	0.46
1:A:569:SER:HB3	1:A:585:GLY:HA2	1.98	0.46
1:A:582:GLU:O	1:A:583:ARG:HB3	2.15	0.46
1:A:690:ALA:O	1:A:812:THR:HG22	2.15	0.46
1:A:700:ILE:O	1:A:703:GLU:HB2	2.16	0.46
1:A:756:TRP:CG	1:A:757:GLY:N	2.57	0.46
1:B:42:ASP:HA	1:B:45:ILE:HG23	1.98	0.46
1:B:386:ASN:C	1:B:387:LYS:O	2.54	0.46
1:B:390:LEU:O	1:B:422:ILE:HG13	2.15	0.46
1:B:392:ASP:O	1:B:531:PRO:HD2	2.16	0.46
1:B:592:MET:CG	1:B:593:PRO:CD	2.93	0.46
1:B:700:ILE:O	1:B:703:GLU:HB2	2.16	0.46
1:B:904:ASP:HA	1:B:907:VAL:HB	1.98	0.46
1:A:9:ALA:N	1:A:10:PRO:HD2	2.30	0.46
1:A:183:LEU:HD23	1:A:188:LEU:CA	2.31	0.46
1:A:399:VAL:CA	1:A:401:PRO:HD2	2.44	0.46
1:A:449:HIS:HE1	1:A:461:VAL:CG2	2.29	0.46
1:A:727:ILE:CD1	1:A:728:PHE:N	2.73	0.46
1:A:730:ASP:O	1:A:734:LEU:CD2	2.63	0.46
1:A:867:ILE:CD1	1:A:868:PHE:N	2.77	0.46
1:B:239:LYS:HB3	1:B:243:ASP:CB	2.46	0.46
1:B:390:LEU:H	1:B:422:ILE:HD11	1.76	0.46
1:B:413:SER:OG	1:B:474:LYS:CE	2.62	0.46
1:B:484:VAL:HG21	1:B:526:ILE:HG21	1.92	0.46
1:B:511:ARG:C	1:B:531:PRO:HA	2.40	0.46
1:B:557:LEU:CD2	1:B:607:PHE:HE2	2.25	0.46
1:B:569:SER:HB3	1:B:585:GLY:HA2	1.98	0.46
1:B:676:ASP:C	1:B:679:LYS:HG3	2.40	0.46
1:B:698:LEU:CD1	1:B:805:GLU:CA	2.93	0.46
1:B:771:TRP:HZ2	1:B:863:PHE:HD2	1.59	0.46
1:B:795:GLU:OE2	1:B:849:HIS:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:799:LEU:HD11	1:B:842:THR:CG2	2.45	0.46
1:B:827:LEU:C	1:B:827:LEU:CD1	2.85	0.46
1:A:88:LEU:HD12	1:A:90:SER:CA	2.45	0.46
1:A:247:ALA:HB3	1:A:269:VAL:HG11	1.94	0.46
1:A:247:ALA:CB	1:A:269:VAL:CG1	2.93	0.46
1:A:308:VAL:HG21	1:A:329:ILE:CD1	2.46	0.46
1:A:385:LYS:CE	1:A:537:ARG:HG3	2.45	0.46
1:A:390:LEU:O	1:A:422:ILE:HG13	2.15	0.46
1:A:685:PHE:CE1	1:A:749:LYS:HE2	2.47	0.46
1:A:892:SER:O	1:A:894:LYS:O	2.33	0.46
1:B:341:VAL:O	1:B:344:THR:CG2	2.56	0.46
1:B:371:GLY:HA2	1:B:748:VAL:HG13	1.97	0.46
1:B:586:LEU:HA	1:B:586:LEU:HD12	1.76	0.46
1:B:601:VAL:C	1:B:603:ALA:N	2.72	0.46
1:B:607:PHE:HE1	1:B:610:VAL:CG2	2.26	0.46
1:B:683:GLN:CB	1:B:687:ARG:NE	2.77	0.46
1:A:53:GLU:O	1:A:54:SER:HB3	2.14	0.46
1:A:88:LEU:HG	1:A:89:THR:N	2.28	0.46
1:A:363:LEU:HD12	1:A:363:LEU:N	2.30	0.46
1:A:385:LYS:CG	1:A:536:PRO:O	2.64	0.46
1:A:392:ASP:O	1:A:531:PRO:HD2	2.16	0.46
1:A:607:PHE:HE1	1:A:610:VAL:HB	1.78	0.46
1:A:689:TYR:CD1	1:A:761:LEU:CD1	2.97	0.46
1:A:715:ARG:HB2	1:A:790:PHE:CD2	2.50	0.46
1:A:721:LEU:O	1:A:798:PHE:CZ	2.64	0.46
1:A:841:PHE:O	1:A:846:TRP:HD1	1.99	0.46
1:A:902:LEU:HA	1:A:905:PHE:HD1	1.81	0.46
1:B:49:ILE:CG2	1:B:275:LEU:O	2.63	0.46
1:B:88:LEU:HD12	1:B:90:SER:CA	2.45	0.46
1:B:88:LEU:HB3	1:B:198:PRO:CG	2.46	0.46
1:B:144:PHE:CG	1:B:145:GLY:N	2.84	0.46
1:B:449:HIS:HE1	1:B:461:VAL:CG2	2.29	0.46
1:B:552:LEU:CD2	1:B:678:LEU:HD21	2.28	0.46
1:B:725:ILE:HG23	1:B:726:ALA:N	2.29	0.46
1:B:764:VAL:HG22	1:B:874:VAL:CG1	2.44	0.46
1:B:795:GLU:O	1:B:799:LEU:CG	2.57	0.46
1:A:55:HIS:O	1:A:56:ASP:O	2.33	0.46
1:A:144:PHE:CG	1:A:145:GLY:N	2.84	0.46
1:A:219:ASP:OD2	1:A:256:ALA:C	2.59	0.46
1:A:338:LEU:C	1:A:338:LEU:CD2	2.87	0.46
1:A:481:LEU:HD11	1:A:498:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:LYS:CG	1:A:505:PHE:CZ	2.96	0.46
1:A:765:VAL:CG1	1:A:766:LEU:N	2.78	0.46
1:A:771:TRP:CD1	1:A:771:TRP:C	2.93	0.46
1:A:780:GLN:C	1:A:782:GLU:N	2.67	0.46
1:B:35:PRO:O	1:B:36:LYS:C	2.58	0.46
1:B:121:VAL:N	1:B:123:PRO:HD2	2.31	0.46
1:B:176:LEU:CD2	1:B:191:ILE:CG1	2.94	0.46
1:B:182:VAL:CA	1:B:201:ILE:O	2.44	0.46
1:B:185:ASP:CG	1:B:189:LYS:CD	2.84	0.46
1:B:301:VAL:HG21	1:B:333:GLY:HA3	1.97	0.46
1:B:388:LEU:CD2	1:B:416:LYS:H	2.29	0.46
1:B:603:ALA:O	1:B:604:ALA:HB3	2.16	0.46
1:B:640:PRO:O	1:B:643:LYS:CG	2.61	0.46
1:B:841:PHE:O	1:B:846:TRP:HD1	1.99	0.46
1:A:239:LYS:HB3	1:A:243:ASP:CB	2.46	0.46
1:A:374:ILE:HD12	1:A:555:LYS:HZ3	1.78	0.46
1:A:388:LEU:CD2	1:A:416:LYS:H	2.29	0.46
1:A:544:VAL:HG23	1:A:545:CYS:N	2.31	0.46
1:A:660:SER:C	1:A:662:ALA:H	2.22	0.46
1:B:28:ALA:CB	1:B:170:ASP:CG	2.77	0.46
1:B:219:ASP:O	1:B:220:ASP:O	2.34	0.46
1:B:227:GLN:HA	1:B:246:PHE:HZ	1.81	0.46
1:B:385:LYS:HE2	1:B:537:ARG:CB	2.40	0.46
1:B:409:CYS:HG	1:B:439:VAL:HG22	1.77	0.46
1:B:596:GLU:C	1:B:600:PHE:HE2	2.23	0.46
1:B:598:TYR:CD1	1:B:598:TYR:C	2.94	0.46
1:B:607:PHE:HE1	1:B:610:VAL:HB	1.78	0.46
1:B:693:VAL:CG1	1:B:694:TYR:N	2.78	0.46
1:B:724:PHE:CZ	1:B:837:LEU:CD2	2.99	0.46
1:B:771:TRP:CD1	1:B:771:TRP:C	2.93	0.46
1:A:175:THR:C	1:A:192:GLU:OE1	2.59	0.46
1:A:176:LEU:HD21	1:A:195:GLU:OE1	2.14	0.46
1:A:219:ASP:O	1:A:220:ASP:O	2.34	0.46
1:A:476:ALA:O	1:A:480:VAL:HG23	2.16	0.46
1:A:517:ARG:HD2	1:A:518:LYS:CA	2.43	0.46
1:A:607:PHE:HE1	1:A:610:VAL:CB	2.28	0.46
1:A:701:HIS:CD2	1:A:702:LEU:N	2.84	0.46
1:B:112:HIS:CD2	1:B:113:PHE:H	2.32	0.46
1:B:241:LYS:HD3	1:B:241:LYS:HA	1.50	0.46
1:B:357:LYS:CB	1:B:668:ALA:HB2	2.43	0.46
1:B:383:LEU:CD1	1:B:556:MET:HE3	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:LYS:CG	1:B:536:PRO:O	2.64	0.46
1:B:391:HIS:O	1:B:393:PRO:CD	2.64	0.46
1:B:442:LYS:O	1:B:443:TYR:CE2	2.69	0.46
1:B:618:VAL:HG23	1:B:619:VAL:N	2.31	0.46
1:B:769:GLY:O	1:B:773:THR:HG22	2.15	0.46
1:B:774:VAL:C	1:B:776:THR:H	2.24	0.46
1:A:89:THR:O	1:A:91:GLU:N	2.40	0.45
1:A:153:LEU:HD13	1:A:727:ILE:CG2	2.41	0.45
1:A:182:VAL:HG23	1:A:200:ASP:CB	2.31	0.45
1:A:590:GLY:CA	1:A:609:GLU:O	2.64	0.45
1:A:637:ASN:ND2	1:A:638:ASP:OD1	2.49	0.45
1:A:671:LEU:C	1:A:674:ILE:HD11	2.42	0.45
1:A:695:ARG:NH1	1:A:730:ASP:CG	2.74	0.45
1:A:764:VAL:HG22	1:A:874:VAL:CG1	2.44	0.45
1:A:799:LEU:HD11	1:A:842:THR:CG2	2.45	0.45
1:A:864:SER:O	1:A:868:PHE:CE1	2.69	0.45
1:A:904:ASP:HA	1:A:907:VAL:HB	1.98	0.45
1:B:20:LYS:C	1:B:22:ASP:H	2.24	0.45
1:B:289:VAL:HG12	1:B:756:TRP:CD1	2.50	0.45
1:B:308:VAL:HG21	1:B:329:ILE:CD1	2.46	0.45
1:B:511:ARG:HG3	1:B:560:ASP:OD1	2.16	0.45
1:B:554:ILE:CG2	1:B:574:LEU:HD22	2.46	0.45
1:B:715:ARG:CG	1:B:790:PHE:CB	2.84	0.45
1:B:804:THR:O	1:B:807:TRP:HB2	2.15	0.45
1:A:16:ILE:CD1	1:A:667:LEU:CG	2.94	0.45
1:A:93:VAL:CG1	1:A:97:ARG:HH21	2.17	0.45
1:A:219:ASP:CB	1:A:256:ALA:HA	2.45	0.45
1:A:278:ALA:O	1:A:279:ALA:HB3	2.10	0.45
1:A:306:LEU:O	1:A:309:TRP:HB3	2.16	0.45
1:A:391:HIS:O	1:A:393:PRO:CD	2.64	0.45
1:A:618:VAL:HG23	1:A:619:VAL:N	2.32	0.45
1:A:648:GLY:CA	1:A:662:ALA:HB1	2.35	0.45
1:A:715:ARG:CG	1:A:790:PHE:CB	2.84	0.45
1:A:724:PHE:CZ	1:A:837:LEU:CD2	2.99	0.45
1:B:41:GLU:O	1:B:45:ILE:HG23	2.16	0.45
1:B:384:THR:OG1	1:B:534:ASP:OD2	2.29	0.45
1:B:415:LYS:CD	1:B:559:GLY:O	2.55	0.45
1:B:671:LEU:C	1:B:674:ILE:HD11	2.41	0.45
1:B:701:HIS:CD2	1:B:701:HIS:C	2.94	0.45
1:B:741:ALA:N	1:B:742:PRO:CD	2.79	0.45
1:B:892:SER:O	1:B:894:LYS:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:902:LEU:HA	1:B:905:PHE:HD1	1.81	0.45
1:A:20:LYS:C	1:A:22:ASP:H	2.24	0.45
1:A:150:LEU:HD13	1:A:723:VAL:CA	2.44	0.45
1:A:240:HIS:O	1:A:241:LYS:C	2.54	0.45
1:A:289:VAL:HG12	1:A:756:TRP:CD1	2.50	0.45
1:A:401:PRO:CG	1:A:487:ASP:OD2	2.56	0.45
1:A:676:ASP:C	1:A:679:LYS:HG3	2.40	0.45
1:A:690:ALA:HB1	1:A:812:THR:CA	2.45	0.45
1:A:715:ARG:HB3	1:A:716:SER:H	1.55	0.45
1:A:721:LEU:HD22	1:A:841:PHE:HD2	1.82	0.45
1:A:790:PHE:HD2	1:A:793:MET:HB2	1.62	0.45
1:B:46:ASP:C	1:B:49:ILE:HG12	2.19	0.45
1:B:53:GLU:OE2	1:B:272:ALA:CA	2.46	0.45
1:B:100:TYR:HB2	1:B:264:GLY:C	2.42	0.45
1:B:175:THR:C	1:B:192:GLU:OE1	2.59	0.45
1:B:247:ALA:CB	1:B:269:VAL:CG1	2.93	0.45
1:B:251:VAL:O	1:B:253:ARG:N	2.49	0.45
1:B:411:ALA:C	1:B:515:VAL:HG11	2.32	0.45
1:B:618:VAL:HA	1:B:621:ILE:HG12	1.98	0.45
1:B:701:HIS:CD2	1:B:702:LEU:N	2.84	0.45
1:A:24:LYS:CG	1:A:171:GLU:CB	2.95	0.45
1:A:210:ILE:HG23	1:A:245:VAL:HG21	1.91	0.45
1:A:325:PHE:CZ	1:A:706:LEU:HA	2.51	0.45
1:A:407:THR:CA	1:A:527:LEU:CD1	2.89	0.45
1:A:543:THR:OG1	1:A:672:GLY:HA2	2.17	0.45
1:A:701:HIS:CD2	1:A:701:HIS:C	2.94	0.45
1:A:768:VAL:CG2	1:A:811:ILE:CD1	2.77	0.45
1:A:833:LEU:O	1:A:836:ILE:HB	2.17	0.45
1:B:31:TYR:CD1	1:B:98:ARG:CB	2.84	0.45
1:B:64:GLU:HB2	1:B:65:GLU:H	1.34	0.45
1:B:146:VAL:CG2	1:B:719:ILE:CG2	2.86	0.45
1:B:476:ALA:O	1:B:480:VAL:HG23	2.16	0.45
1:B:481:LEU:HD11	1:B:498:TYR:CZ	2.51	0.45
1:B:500:ASN:O	1:B:504:GLU:HG3	2.17	0.45
1:B:544:VAL:HG23	1:B:545:CYS:N	2.31	0.45
1:B:554:ILE:HG23	1:B:554:ILE:O	2.16	0.45
1:B:690:ALA:HB1	1:B:812:THR:CA	2.45	0.45
1:B:721:LEU:HD22	1:B:841:PHE:HD2	1.82	0.45
1:B:759:SER:O	1:B:762:LEU:HB2	2.16	0.45
1:A:74:VAL:HG21	1:A:76:PRO:CG	2.44	0.45
1:A:84:THR:HB	1:A:215:ARG:CG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:LEU:HB3	1:A:198:PRO:CG	2.46	0.45
1:A:192:GLU:HG2	1:A:195:GLU:HB2	1.97	0.45
1:A:210:ILE:HG21	1:A:245:VAL:CG2	2.29	0.45
1:A:233:GLU:O	1:A:233:GLU:CG	2.65	0.45
1:A:511:ARG:HG3	1:A:560:ASP:OD1	2.16	0.45
1:A:518:LYS:O	1:A:519:ARG:CB	2.55	0.45
1:A:607:PHE:O	1:A:607:PHE:CG	2.68	0.45
1:A:683:GLN:CB	1:A:687:ARG:CZ	2.79	0.45
1:A:687:ARG:HH22	1:A:739:ASP:CG	2.25	0.45
1:A:689:TYR:CZ	1:A:761:LEU:HD22	2.30	0.45
1:B:176:LEU:HD21	1:B:195:GLU:OE1	2.14	0.45
1:B:188:LEU:H	1:B:188:LEU:HD12	1.82	0.45
1:B:377:SER:N	1:B:555:LYS:O	2.42	0.45
1:B:390:LEU:HD23	1:B:532:CYS:HB2	0.55	0.45
1:B:600:PHE:CZ	1:B:907:VAL:HG23	2.46	0.45
1:B:659:ARG:HD3	1:B:665:VAL:CG2	2.47	0.45
1:B:687:ARG:NH2	1:B:739:ASP:CG	2.74	0.45
1:B:736:ILE:HD13	1:B:827:LEU:CB	2.47	0.45
1:B:833:LEU:O	1:B:836:ILE:HB	2.17	0.45
1:A:146:VAL:CG2	1:A:719:ILE:CG2	2.86	0.45
1:A:413:SER:C	1:A:414:ARG:CG	2.88	0.45
1:A:500:ASN:O	1:A:504:GLU:HG3	2.17	0.45
1:A:554:ILE:CG2	1:A:574:LEU:HD22	2.46	0.45
1:A:640:PRO:O	1:A:643:LYS:CG	2.61	0.45
1:A:698:LEU:CD1	1:A:805:GLU:CB	2.92	0.45
1:A:741:ALA:N	1:A:742:PRO:CD	2.79	0.45
1:B:183:LEU:CD2	1:B:188:LEU:CG	2.71	0.45
1:B:210:ILE:HG21	1:B:245:VAL:O	2.15	0.45
1:B:570:ARG:CB	1:B:576:THR:O	2.65	0.45
1:B:706:LEU:CD2	1:B:717:LEU:HD11	1.98	0.45
1:B:715:ARG:CG	1:B:790:PHE:HB3	2.47	0.45
1:A:53:GLU:C	1:A:54:SER:OG	2.60	0.45
1:A:129:GLU:O	1:A:132:ALA:HB3	2.17	0.45
1:A:470:ILE:HA	1:A:517:ARG:HE	1.82	0.45
1:A:513:LEU:CD1	1:A:530:MET:CE	2.82	0.45
1:A:675:ILE:HG22	1:A:679:LYS:CE	2.39	0.45
1:A:683:GLN:CB	1:A:687:ARG:NE	2.77	0.45
1:A:690:ALA:HB3	1:A:812:THR:O	2.07	0.45
1:A:725:ILE:HD13	1:A:729:ALA:HB2	1.98	0.45
1:A:810:PHE:CE2	1:A:822:ILE:N	2.85	0.45
1:B:191:ILE:HD13	1:B:192:GLU:N	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ASP:OD2	1:B:256:ALA:C	2.59	0.45
1:B:233:GLU:O	1:B:233:GLU:CG	2.65	0.45
1:B:333:GLY:O	1:B:334:VAL:C	2.60	0.45
1:A:69:PRO:C	1:A:75:VAL:HG21	2.42	0.45
1:A:176:LEU:CD2	1:A:191:ILE:CG1	2.94	0.45
1:A:183:LEU:HD23	1:A:188:LEU:HG	1.88	0.45
1:A:251:VAL:O	1:A:253:ARG:N	2.49	0.45
1:A:674:ILE:O	1:A:678:LEU:CD1	2.65	0.45
1:A:687:ARG:NH2	1:A:739:ASP:CG	2.74	0.45
1:B:470:ILE:HA	1:B:517:ARG:HE	1.82	0.45
1:B:502:VAL:O	1:B:510:PHE:HE2	1.93	0.45
1:B:612:PRO:CB	1:B:637:ASN:HB2	2.47	0.45
1:B:695:ARG:NH1	1:B:730:ASP:CG	2.74	0.45
1:B:731:VAL:CG1	1:B:732:ALA:N	2.68	0.45
1:B:864:SER:O	1:B:868:PHE:CE1	2.69	0.45
1:A:93:VAL:CB	1:A:197:VAL:HG12	2.41	0.45
1:A:227:GLN:HA	1:A:246:PHE:HZ	1.81	0.45
1:A:383:LEU:CD1	1:A:556:MET:HE3	2.40	0.45
1:A:458:VAL:C	1:A:459:VAL:CG2	2.86	0.45
1:A:680:THR:O	1:A:683:GLN:HB2	2.17	0.45
1:A:686:HIS:CB	1:A:815:ASN:HB3	2.45	0.45
1:A:736:ILE:HD13	1:A:827:LEU:CB	2.47	0.45
1:A:759:SER:O	1:A:762:LEU:HB2	2.16	0.45
1:B:387:LYS:O	1:B:389:SER:N	2.49	0.45
1:B:400:ASP:H	1:B:404:LEU:CD2	2.19	0.45
1:B:511:ARG:HG2	1:B:560:ASP:CA	2.47	0.45
1:B:543:THR:OG1	1:B:672:GLY:HA2	2.17	0.45
1:B:544:VAL:O	1:B:547:ALA:HB3	2.17	0.45
1:B:725:ILE:HD13	1:B:729:ALA:HB2	1.98	0.45
1:B:725:ILE:CG2	1:B:726:ALA:N	2.80	0.45
1:B:778:TYR:HE1	1:B:782:GLU:OE2	1.92	0.45
1:B:793:MET:O	1:B:797:LEU:HB2	2.16	0.45
1:B:794:ASP:CG	1:B:795:GLU:N	2.72	0.45
1:B:913:SER:O	1:B:917:GLU:HG3	2.16	0.45
1:A:42:ASP:HA	1:A:45:ILE:HG23	1.98	0.45
1:A:544:VAL:O	1:A:547:ALA:HB3	2.17	0.45
1:A:612:PRO:CB	1:A:637:ASN:HB2	2.47	0.45
1:A:764:VAL:HG11	1:A:871:MET:HE1	1.98	0.45
1:A:793:MET:O	1:A:797:LEU:HB2	2.16	0.45
1:B:88:LEU:HG	1:B:89:THR:N	2.28	0.45
1:B:235:LEU:H	1:B:235:LEU:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:LYS:CG	1:B:243:ASP:CG	2.90	0.45
1:B:371:GLY:C	1:B:748:VAL:CG1	2.90	0.45
1:B:637:ASN:ND2	1:B:638:ASP:OD1	2.49	0.45
1:B:664:ILE:CG2	1:B:665:VAL:N	2.80	0.45
1:B:827:LEU:O	1:B:831:ILE:HG12	2.17	0.45
1:B:906:VAL:C	1:B:908:SER:N	2.73	0.45
1:A:100:TYR:HB2	1:A:264:GLY:C	2.42	0.44
1:A:150:LEU:HD13	1:A:723:VAL:CG1	2.46	0.44
1:A:188:LEU:H	1:A:188:LEU:HD12	1.82	0.44
1:A:317:ASN:CG	1:A:321:GLN:HE22	2.24	0.44
1:A:415:LYS:CD	1:A:559:GLY:O	2.55	0.44
1:A:483:THR:O	1:A:524:TRP:CG	2.71	0.44
1:A:513:LEU:HD13	1:A:514:GLY:C	2.42	0.44
1:A:570:ARG:CB	1:A:576:THR:O	2.65	0.44
1:A:630:ALA:HB1	1:A:649:ILE:HD11	1.98	0.44
1:A:715:ARG:HE	1:A:790:PHE:HB3	1.82	0.44
1:A:737:ALA:C	1:A:738:TYR:CG	2.95	0.44
1:B:53:GLU:O	1:B:54:SER:HB3	2.14	0.44
1:B:69:PRO:C	1:B:75:VAL:HG21	2.42	0.44
1:B:306:LEU:O	1:B:309:TRP:HB3	2.16	0.44
1:B:630:ALA:HB1	1:B:649:ILE:HD11	1.98	0.44
1:B:780:GLN:HE22	1:B:792:ASN:HB2	1.78	0.44
1:B:807:TRP:CZ2	1:B:860:ILE:HG23	2.52	0.44
1:A:183:LEU:CD2	1:A:188:LEU:CA	2.93	0.44
1:A:481:LEU:CD2	1:A:498:TYR:CG	3.01	0.44
1:A:483:THR:C	1:A:524:TRP:HB2	2.36	0.44
1:A:554:ILE:HG23	1:A:554:ILE:O	2.16	0.44
1:A:659:ARG:HD3	1:A:665:VAL:CG2	2.47	0.44
1:A:715:ARG:CG	1:A:790:PHE:HB3	2.47	0.44
1:A:774:VAL:C	1:A:776:THR:H	2.24	0.44
1:A:780:GLN:HE22	1:A:792:ASN:HB2	1.78	0.44
1:A:807:TRP:CZ2	1:A:860:ILE:HG23	2.52	0.44
1:B:24:LYS:CG	1:B:171:GLU:CB	2.95	0.44
1:B:84:THR:HB	1:B:215:ARG:CG	2.46	0.44
1:B:192:GLU:CG	1:B:195:GLU:H	2.15	0.44
1:B:286:PHE:CD2	1:B:290:LEU:HD11	2.45	0.44
1:B:590:GLY:CA	1:B:609:GLU:O	2.64	0.44
1:B:639:ALA:N	1:B:640:PRO:CD	2.80	0.44
1:B:651:VAL:HG12	1:B:653:GLY:H	1.82	0.44
1:B:810:PHE:CE2	1:B:822:ILE:N	2.85	0.44
1:A:383:LEU:CD2	1:A:671:LEU:CD1	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:MET:HG2	1:A:534:ASP:H	1.76	0.44
1:A:760:VAL:HG23	1:A:761:LEU:N	2.33	0.44
1:A:807:TRP:HZ2	1:A:860:ILE:HG23	1.82	0.44
1:A:913:SER:O	1:A:917:GLU:HG3	2.16	0.44
1:B:307:ILE:C	1:B:309:TRP:N	2.75	0.44
1:B:344:THR:CG2	1:B:345:THR:N	2.80	0.44
1:B:357:LYS:HD2	1:B:667:LEU:CD2	2.47	0.44
1:B:680:THR:O	1:B:683:GLN:HB2	2.17	0.44
1:B:687:ARG:HH22	1:B:739:ASP:CG	2.25	0.44
1:B:737:ALA:C	1:B:738:TYR:CG	2.95	0.44
1:A:387:LYS:O	1:A:389:SER:N	2.49	0.44
1:A:560:ASP:HB3	1:A:564:ILE:HG23	1.99	0.44
1:A:598:TYR:C	1:A:601:VAL:HG12	2.43	0.44
1:A:639:ALA:N	1:A:640:PRO:CD	2.80	0.44
1:A:803:LEU:HD23	1:A:807:TRP:CZ2	2.30	0.44
1:A:842:THR:O	1:A:846:TRP:HB2	2.18	0.44
1:B:449:HIS:CE1	1:B:461:VAL:HG23	2.53	0.44
1:B:479:PHE:O	1:B:482:LYS:HB3	2.18	0.44
1:B:485:GLU:O	1:B:486:GLU:CG	2.56	0.44
1:A:299:ILE:HA	1:A:302:ILE:CG1	2.47	0.44
1:A:315:ARG:CG	1:A:317:ASN:ND2	2.80	0.44
1:A:375:LEU:CD1	1:A:678:LEU:HD21	2.47	0.44
1:A:415:LYS:CE	1:A:511:ARG:CB	2.86	0.44
1:A:449:HIS:CE1	1:A:461:VAL:HG23	2.53	0.44
1:A:600:PHE:CZ	1:A:907:VAL:HG23	2.46	0.44
1:A:644:LYS:O	1:A:645:ALA:O	2.35	0.44
1:A:764:VAL:CG2	1:A:874:VAL:HG11	2.45	0.44
1:B:129:GLU:O	1:B:132:ALA:HB3	2.17	0.44
1:B:285:HIS:O	1:B:288:GLU:HB3	2.17	0.44
1:B:289:VAL:HG13	1:B:756:TRP:CB	2.18	0.44
1:B:299:ILE:HA	1:B:302:ILE:CG1	2.47	0.44
1:B:315:ARG:CG	1:B:317:ASN:ND2	2.80	0.44
1:B:481:LEU:CD2	1:B:498:TYR:CG	3.01	0.44
1:B:760:VAL:HG23	1:B:761:LEU:N	2.33	0.44
1:A:99:LYS:CE	1:A:265:ASP:OD2	2.64	0.44
1:A:112:HIS:O	1:A:113:PHE:C	2.60	0.44
1:A:161:GLN:HB3	1:A:340:ALA:CB	2.48	0.44
1:A:235:LEU:HD12	1:A:235:LEU:H	1.82	0.44
1:A:318:PRO:O	1:A:320:VAL:N	2.50	0.44
1:A:371:GLY:C	1:A:748:VAL:CG1	2.90	0.44
1:A:563:GLY:O	1:A:566:ARG:HD3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:694:TYR:CD1	1:A:808:LEU:HB3	2.53	0.44
1:A:725:ILE:CG2	1:A:726:ALA:N	2.80	0.44
1:A:827:LEU:O	1:A:831:ILE:HG12	2.17	0.44
1:B:4:HIS:C	1:B:6:ALA:N	2.75	0.44
1:B:325:PHE:CZ	1:B:706:LEU:HA	2.51	0.44
1:B:422:ILE:HG23	1:B:423:ASP:N	2.33	0.44
1:B:483:THR:O	1:B:524:TRP:CG	2.71	0.44
1:B:513:LEU:HD13	1:B:514:GLY:C	2.42	0.44
1:B:674:ILE:O	1:B:678:LEU:CD1	2.65	0.44
1:B:698:LEU:HD12	1:B:701:HIS:ND1	2.32	0.44
1:B:698:LEU:O	1:B:701:HIS:ND1	2.51	0.44
1:B:707:GLY:HA2	1:B:710:ILE:CG1	2.48	0.44
1:B:724:PHE:O	1:B:727:ILE:CG1	2.38	0.44
1:B:842:THR:O	1:B:846:TRP:HB2	2.18	0.44
1:A:7:SER:C	1:A:10:PRO:HD2	2.43	0.44
1:A:31:TYR:O	1:A:32:GLN:CB	2.66	0.44
1:A:40:ASP:OD2	1:A:45:ILE:HG22	2.18	0.44
1:A:79:MET:CA	1:A:80:LEU:HD23	2.47	0.44
1:A:479:PHE:O	1:A:482:LYS:HB3	2.18	0.44
1:A:484:VAL:HG21	1:A:526:ILE:HG21	1.92	0.44
1:A:552:LEU:HD23	1:A:678:LEU:HD22	1.90	0.44
1:A:633:GLY:O	1:A:634:ASP:CB	2.64	0.44
1:A:862:ILE:HD11	1:A:863:PHE:HD1	1.79	0.44
1:B:31:TYR:O	1:B:32:GLN:CB	2.66	0.44
1:B:88:LEU:CD1	1:B:90:SER:N	2.70	0.44
1:B:292:GLY:O	1:B:296:ILE:HG13	2.18	0.44
1:B:301:VAL:HG13	1:B:302:ILE:H	1.83	0.44
1:B:882:VAL:C	1:B:884:PHE:N	2.72	0.44
1:A:185:ASP:CG	1:A:189:LYS:CD	2.84	0.44
1:A:307:ILE:C	1:A:309:TRP:N	2.75	0.44
1:A:399:VAL:CG1	1:A:401:PRO:HG3	2.34	0.44
1:A:407:THR:HG21	1:A:517:ARG:CG	2.37	0.44
1:A:449:HIS:HE1	1:A:461:VAL:HG21	1.83	0.44
1:A:698:LEU:HD12	1:A:701:HIS:ND1	2.32	0.44
1:A:779:ALA:HB1	1:A:800:GLN:CD	2.43	0.44
1:A:795:GLU:OE2	1:A:849:HIS:O	2.35	0.44
1:A:808:LEU:CA	1:A:811:ILE:HG12	2.48	0.44
1:B:79:MET:CA	1:B:80:LEU:HD23	2.47	0.44
1:B:305:LEU:HA	1:B:329:ILE:HD12	2.00	0.44
1:B:375:LEU:CD1	1:B:678:LEU:HD21	2.47	0.44
1:B:633:GLY:O	1:B:634:ASP:CB	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:VAL:O	1:A:510:PHE:CD2	2.71	0.44
1:A:752:LEU:C	1:A:752:LEU:HD13	2.43	0.44
1:B:96:ARG:HG3	1:B:96:ARG:NH1	2.28	0.44
1:B:150:LEU:HD13	1:B:723:VAL:CG1	2.46	0.44
1:B:161:GLN:HB3	1:B:340:ALA:CB	2.48	0.44
1:B:348:VAL:CG2	1:B:349:GLY:N	2.81	0.44
1:B:350:ALA:HA	1:B:353:LEU:HD12	2.00	0.44
1:B:644:LYS:O	1:B:645:ALA:O	2.35	0.44
1:B:715:ARG:HE	1:B:790:PHE:HB3	1.82	0.44
1:B:764:VAL:HG11	1:B:871:MET:HE1	1.98	0.44
1:B:807:TRP:HZ2	1:B:860:ILE:HG23	1.82	0.44
1:B:813:ARG:CG	1:B:814:ALA:N	2.77	0.44
1:A:246:PHE:HZ	1:A:248:SER:CB	1.89	0.43
1:A:344:THR:CG2	1:A:345:THR:N	2.80	0.43
1:A:384:THR:HG23	1:A:534:ASP:HB2	2.00	0.43
1:A:471:THR:HG1	1:A:519:ARG:C	2.19	0.43
1:A:485:GLU:O	1:A:486:GLU:CG	2.56	0.43
1:A:498:TYR:CE1	1:A:529:ILE:HG23	2.33	0.43
1:A:887:LEU:O	1:A:890:GLY:N	2.51	0.43
1:B:16:ILE:CD1	1:B:667:LEU:CG	2.94	0.43
1:B:278:ALA:O	1:B:279:ALA:HB3	2.10	0.43
1:B:318:PRO:O	1:B:320:VAL:N	2.50	0.43
1:B:501:LYS:CG	1:B:505:PHE:CZ	2.96	0.43
1:B:664:ILE:CG2	1:B:665:VAL:H	2.30	0.43
1:B:686:HIS:CB	1:B:815:ASN:HB3	2.45	0.43
1:A:92:GLU:HB3	1:A:96:ARG:NH2	2.34	0.43
1:A:292:GLY:O	1:A:296:ILE:HG13	2.18	0.43
1:A:698:LEU:HD12	1:A:701:HIS:HD1	1.83	0.43
1:A:725:ILE:HD13	1:A:728:PHE:CE1	2.53	0.43
1:B:413:SER:C	1:B:414:ARG:CG	2.88	0.43
1:B:449:HIS:HE1	1:B:461:VAL:HG21	1.83	0.43
1:B:529:ILE:CA	1:B:530:MET:HE2	2.48	0.43
1:B:563:GLY:O	1:B:566:ARG:HD3	2.18	0.43
1:B:690:ALA:HB3	1:B:812:THR:O	2.07	0.43
1:B:752:LEU:C	1:B:752:LEU:HD13	2.43	0.43
1:B:887:LEU:O	1:B:890:GLY:N	2.51	0.43
1:A:64:GLU:HB2	1:A:65:GLU:H	1.34	0.43
1:A:201:ILE:HG23	1:A:257:PHE:CE2	2.52	0.43
1:A:305:LEU:HA	1:A:329:ILE:HD12	2.00	0.43
1:A:631:MET:CG	1:A:632:THR:H	2.29	0.43
1:A:707:GLY:HA2	1:A:710:ILE:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ARG:HH12	1:A:817:PRO:CB	2.30	0.43
1:A:815:ASN:ND2	1:A:815:ASN:C	2.77	0.43
1:A:906:VAL:C	1:A:908:SER:N	2.73	0.43
1:B:112:HIS:O	1:B:113:PHE:C	2.60	0.43
1:B:182:VAL:O	1:B:189:LYS:N	2.30	0.43
1:B:285:HIS:HE1	1:B:367:GLU:HB3	1.80	0.43
1:B:317:ASN:CG	1:B:321:GLN:HE22	2.24	0.43
1:B:457:LYS:NZ	1:B:521:GLU:HB3	2.33	0.43
1:B:725:ILE:HD13	1:B:728:PHE:CE1	2.53	0.43
1:B:736:ILE:HD11	1:B:827:LEU:HD22	1.93	0.43
1:B:807:TRP:CZ2	1:B:860:ILE:CG2	3.00	0.43
1:B:810:PHE:HE1	1:B:827:LEU:HD12	1.82	0.43
1:A:9:ALA:N	1:A:10:PRO:CD	2.82	0.43
1:A:192:GLU:O	1:A:196:VAL:N	2.39	0.43
1:A:285:HIS:O	1:A:288:GLU:HB3	2.17	0.43
1:A:301:VAL:HG13	1:A:302:ILE:H	1.83	0.43
1:A:333:GLY:O	1:A:334:VAL:C	2.60	0.43
1:A:357:LYS:HD2	1:A:667:LEU:CD2	2.47	0.43
1:A:457:LYS:NZ	1:A:521:GLU:HB3	2.33	0.43
1:A:529:ILE:CA	1:A:530:MET:HE2	2.48	0.43
1:A:535:PRO:O	1:A:536:PRO:O	2.36	0.43
1:A:566:ARG:NH2	1:A:570:ARG:HD3	2.34	0.43
1:A:612:PRO:HB3	1:A:637:ASN:CB	2.49	0.43
1:A:730:ASP:C	1:A:734:LEU:HD22	2.43	0.43
1:B:40:ASP:OD2	1:B:45:ILE:HG22	2.18	0.43
1:B:183:LEU:CD2	1:B:188:LEU:CA	2.93	0.43
1:B:219:ASP:CB	1:B:256:ALA:HA	2.45	0.43
1:B:306:LEU:O	1:B:309:TRP:CE3	2.66	0.43
1:B:483:THR:O	1:B:484:VAL:C	2.61	0.43
1:B:543:THR:O	1:B:675:ILE:CG2	2.61	0.43
1:B:598:TYR:C	1:B:601:VAL:HG12	2.43	0.43
1:B:612:PRO:HB3	1:B:637:ASN:CB	2.49	0.43
1:B:694:TYR:CD1	1:B:808:LEU:HB3	2.53	0.43
1:B:743:TYR:C	1:B:745:GLN:H	2.27	0.43
1:B:808:LEU:CA	1:B:811:ILE:HG12	2.48	0.43
1:A:24:LYS:CE	1:A:171:GLU:OE1	2.66	0.43
1:A:192:GLU:CG	1:A:195:GLU:CB	2.97	0.43
1:A:239:LYS:CG	1:A:243:ASP:CG	2.90	0.43
1:A:315:ARG:HB2	1:A:710:ILE:C	2.37	0.43
1:A:369:LEU:HA	1:A:372:VAL:HG23	2.01	0.43
1:A:399:VAL:CB	1:A:401:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:SER:O	1:A:414:ARG:HB3	2.18	0.43
1:A:415:LYS:NZ	1:A:511:ARG:HB2	2.16	0.43
1:A:439:VAL:HG12	1:A:440:LEU:H	1.83	0.43
1:A:457:LYS:HZ1	1:A:521:GLU:HB3	1.84	0.43
1:A:651:VAL:HG12	1:A:653:GLY:H	1.82	0.43
1:A:743:TYR:C	1:A:745:GLN:H	2.27	0.43
1:B:7:SER:C	1:B:10:PRO:HD2	2.43	0.43
1:B:516:ALA:O	1:B:527:LEU:HD21	2.18	0.43
1:B:518:LYS:CG	1:B:520:GLY:H	2.30	0.43
1:B:770:THR:CA	1:B:773:THR:CG2	2.89	0.43
1:B:795:GLU:OE2	1:B:849:HIS:O	2.35	0.43
1:B:815:ASN:ND2	1:B:815:ASN:C	2.77	0.43
1:A:4:HIS:C	1:A:6:ALA:N	2.75	0.43
1:A:97:ARG:HB3	1:A:173:LYS:HD2	2.00	0.43
1:A:576:THR:OG1	1:A:578:ILE:HG12	2.18	0.43
1:A:631:MET:CG	1:A:632:THR:N	2.77	0.43
1:A:724:PHE:C	1:A:727:ILE:HG13	2.35	0.43
1:B:9:ALA:N	1:B:10:PRO:CD	2.82	0.43
1:B:388:LEU:CD2	1:B:415:LYS:HD2	2.49	0.43
1:B:439:VAL:HG12	1:B:440:LEU:H	1.83	0.43
1:B:564:ILE:CG2	1:B:565:ALA:N	2.82	0.43
1:B:576:THR:OG1	1:B:578:ILE:HG12	2.18	0.43
1:B:698:LEU:HD12	1:B:701:HIS:HD1	1.83	0.43
1:B:764:VAL:CG2	1:B:874:VAL:HG11	2.45	0.43
1:B:765:VAL:O	1:B:768:VAL:HG12	2.19	0.43
1:B:779:ALA:HB1	1:B:800:GLN:CD	2.43	0.43
1:B:816:GLY:N	1:B:817:PRO:HD2	2.33	0.43
1:A:89:THR:O	1:A:89:THR:OG1	2.37	0.43
1:A:471:THR:OG1	1:A:519:ARG:O	2.30	0.43
1:A:516:ALA:O	1:A:527:LEU:HD21	2.18	0.43
1:A:518:LYS:CG	1:A:520:GLY:H	2.31	0.43
1:A:698:LEU:O	1:A:701:HIS:ND1	2.51	0.43
1:B:28:ALA:HB1	1:B:170:ASP:OD2	2.19	0.43
1:B:351:ALA:O	1:B:355:LYS:N	2.50	0.43
1:B:437:LYS:CG	1:B:438:SER:H	2.23	0.43
1:B:566:ARG:NH2	1:B:570:ARG:HD3	2.34	0.43
1:B:780:GLN:NE2	1:B:792:ASN:HB3	2.34	0.43
1:B:807:TRP:CZ2	1:B:864:SER:HB3	2.54	0.43
1:A:28:ALA:HB1	1:A:170:ASP:OD2	2.19	0.43
1:A:350:ALA:HA	1:A:353:LEU:HD12	2.00	0.43
1:A:515:VAL:HG11	1:A:530:MET:HE1	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:ARG:NH1	1:A:567:GLU:OE2	2.51	0.43
1:A:765:VAL:O	1:A:768:VAL:HG12	2.19	0.43
1:A:816:GLY:N	1:A:817:PRO:HD2	2.33	0.43
1:A:859:ARG:NE	1:B:309:TRP:CZ2	2.87	0.43
1:B:97:ARG:HB3	1:B:173:LYS:HD2	2.00	0.43
1:B:99:LYS:CE	1:B:265:ASP:OD2	2.64	0.43
1:B:210:ILE:HG23	1:B:245:VAL:HG21	1.91	0.43
1:B:325:PHE:CZ	1:B:710:ILE:HD11	2.54	0.43
1:B:408:ALA:HA	1:B:527:LEU:HB3	2.01	0.43
1:B:412:ALA:HB1	1:B:426:PHE:CE2	2.53	0.43
1:B:471:THR:OG1	1:B:519:ARG:O	2.30	0.43
1:B:483:THR:C	1:B:524:TRP:HB2	2.36	0.43
1:B:580:ASN:HB3	1:B:581:ALA:H	1.46	0.43
1:B:862:ILE:HD11	1:B:863:PHE:HD1	1.78	0.43
1:B:869:CYS:SG	1:B:870:ILE:N	2.92	0.43
1:B:904:ASP:O	1:B:908:SER:OG	2.33	0.43
1:A:388:LEU:CD2	1:A:415:LYS:HD2	2.49	0.43
1:A:716:SER:OG	1:A:718:ASN:ND2	2.52	0.43
1:B:51:ASP:O	1:B:55:HIS:CB	2.64	0.43
1:B:92:GLU:HB3	1:B:96:ARG:NH2	2.34	0.43
1:B:192:GLU:HG2	1:B:195:GLU:HB2	1.98	0.43
1:B:329:ILE:HG12	1:B:706:LEU:HD13	1.86	0.43
1:B:369:LEU:HA	1:B:372:VAL:HG23	2.01	0.43
1:B:384:THR:HG23	1:B:534:ASP:HB2	2.00	0.43
1:B:535:PRO:O	1:B:536:PRO:O	2.36	0.43
1:B:804:THR:O	1:B:807:TRP:CA	2.67	0.43
1:A:27:GLU:CG	1:A:94:VAL:HG23	2.48	0.43
1:A:102:LEU:HD23	1:A:194:PRO:CG	2.49	0.43
1:A:336:VAL:HG22	1:A:337:GLY:N	2.34	0.43
1:A:437:LYS:CG	1:A:438:SER:N	2.66	0.43
1:A:511:ARG:HG2	1:A:560:ASP:CA	2.47	0.43
1:A:664:ILE:CG2	1:A:665:VAL:H	2.30	0.43
1:A:808:LEU:HA	1:A:811:ILE:HG12	2.01	0.43
1:A:869:CYS:SG	1:A:870:ILE:N	2.92	0.43
1:B:93:VAL:CG1	1:B:97:ARG:HH21	2.17	0.43
1:B:102:LEU:HD23	1:B:194:PRO:CG	2.49	0.43
1:B:373:GLU:O	1:B:553:SER:N	2.38	0.43
1:B:426:PHE:O	1:B:429:SER:HB2	2.19	0.43
1:B:524:TRP:C	1:B:525:GLU:HG3	2.43	0.43
1:B:631:MET:CG	1:B:632:THR:H	2.29	0.43
1:B:733:THR:HB	1:B:809:ILE:CD1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:808:LEU:O	1:B:812:THR:HG23	2.19	0.43
1:B:808:LEU:HA	1:B:811:ILE:HG12	2.01	0.43
1:B:853:SER:CA	1:B:857:VAL:HG13	2.48	0.43
1:B:862:ILE:CD1	1:B:863:PHE:HD1	2.30	0.43
1:A:78:ASP:OD1	1:A:81:GLN:CD	2.61	0.42
1:A:111:ASN:HB2	1:A:113:PHE:CE1	2.54	0.42
1:A:223:LEU:HD13	1:A:224:GLN:N	2.34	0.42
1:A:325:PHE:CZ	1:A:710:ILE:HD11	2.54	0.42
1:A:326:THR:OG1	1:A:327:LEU:HD12	2.19	0.42
1:A:422:ILE:HG23	1:A:423:ASP:N	2.33	0.42
1:A:524:TRP:C	1:A:525:GLU:HG3	2.43	0.42
1:A:774:VAL:C	1:A:776:THR:N	2.76	0.42
1:A:809:ILE:O	1:A:809:ILE:HG12	2.19	0.42
1:B:513:LEU:CD1	1:B:530:MET:CE	2.82	0.42
1:B:774:VAL:C	1:B:776:THR:N	2.76	0.42
1:A:412:ALA:HB1	1:A:426:PHE:CE2	2.53	0.42
1:A:564:ILE:CG2	1:A:565:ALA:N	2.82	0.42
1:A:573:GLY:O	1:A:574:LEU:C	2.62	0.42
1:A:580:ASN:HB3	1:A:581:ALA:H	1.46	0.42
1:A:862:ILE:CD1	1:A:863:PHE:HD1	2.30	0.42
1:A:869:CYS:SG	1:B:299:ILE:HD11	2.58	0.42
1:B:100:TYR:HB3	1:B:264:GLY:HA2	1.98	0.42
1:B:192:GLU:CG	1:B:195:GLU:CB	2.97	0.42
1:B:223:LEU:HD13	1:B:224:GLN:N	2.34	0.42
1:B:612:PRO:HA	1:B:637:ASN:ND2	2.22	0.42
1:B:631:MET:CG	1:B:632:THR:N	2.77	0.42
1:B:750:TRP:CD2	1:B:753:PRO:HG2	2.44	0.42
1:B:804:THR:HA	1:B:807:TRP:CE2	2.47	0.42
1:B:809:ILE:O	1:B:809:ILE:HG12	2.19	0.42
1:B:818:PHE:HA	1:B:875:TYR:CB	2.49	0.42
1:A:225:VAL:HG22	1:A:248:SER:OG	2.19	0.42
1:A:341:VAL:C	1:A:344:THR:HG22	2.40	0.42
1:A:506:ALA:HA	1:A:510:PHE:CD2	2.52	0.42
1:A:618:VAL:HA	1:A:621:ILE:HG12	1.98	0.42
1:A:738:TYR:CE1	1:A:824:SER:CB	3.02	0.42
1:A:791:GLY:O	1:A:849:HIS:O	2.36	0.42
1:B:24:LYS:CE	1:B:171:GLU:OE1	2.66	0.42
1:B:47:ALA:O	1:B:51:ASP:OD2	2.37	0.42
1:B:182:VAL:HG23	1:B:200:ASP:CB	2.31	0.42
1:B:301:VAL:CG1	1:B:302:ILE:H	2.32	0.42
1:B:305:LEU:C	1:B:326:THR:HG22	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:VAL:HG22	1:B:473:VAL:HA	2.01	0.42
1:B:459:VAL:HG11	1:B:471:THR:HG22	1.94	0.42
1:B:510:PHE:CD1	1:B:510:PHE:C	2.96	0.42
1:B:758:MET:O	1:B:761:LEU:HB2	2.19	0.42
1:A:60:ALA:O	1:A:61:GLU:HB2	2.20	0.42
1:A:375:LEU:C	1:A:554:ILE:HD12	2.34	0.42
1:A:459:VAL:HG22	1:A:473:VAL:HA	2.01	0.42
1:A:725:ILE:CD1	1:A:728:PHE:HE1	2.32	0.42
1:A:732:ALA:O	1:A:735:ALA:CA	2.67	0.42
1:A:740:ASN:HB3	1:A:814:ALA:HB1	2.01	0.42
1:A:799:LEU:CD2	1:A:842:THR:OG1	2.67	0.42
1:B:49:ILE:HD12	1:B:276:VAL:N	2.35	0.42
1:B:53:GLU:C	1:B:54:SER:OG	2.60	0.42
1:B:78:ASP:OD1	1:B:81:GLN:CD	2.61	0.42
1:B:176:LEU:O	1:B:359:ILE:HD13	2.19	0.42
1:B:543:THR:HB	1:B:672:GLY:HA2	1.99	0.42
1:B:596:GLU:HB2	1:B:910:GLN:HE21	1.73	0.42
1:B:841:PHE:O	1:B:846:TRP:CD1	2.72	0.42
1:A:146:VAL:CG2	1:A:147:ILE:N	2.82	0.42
1:A:154:ASN:HD22	1:A:154:ASN:C	2.28	0.42
1:A:348:VAL:CG2	1:A:349:GLY:N	2.81	0.42
1:A:410:LEU:HD12	1:A:472:CYS:SG	2.60	0.42
1:A:530:MET:HE2	1:A:530:MET:N	2.34	0.42
1:A:567:GLU:HA	1:A:567:GLU:OE1	2.20	0.42
1:A:683:GLN:O	1:A:687:ARG:CD	2.65	0.42
1:A:724:PHE:CD2	1:A:798:PHE:CZ	3.08	0.42
1:B:111:ASN:HB2	1:B:113:PHE:CE1	2.54	0.42
1:B:181:VAL:HA	1:B:189:LYS:O	2.20	0.42
1:B:225:VAL:CG2	1:B:248:SER:OG	2.68	0.42
1:B:413:SER:O	1:B:414:ARG:HB3	2.18	0.42
1:B:510:PHE:O	1:B:564:ILE:CD1	2.65	0.42
1:B:683:GLN:NE2	1:B:743:TYR:CE1	2.86	0.42
1:B:728:PHE:CD2	1:B:728:PHE:O	2.73	0.42
1:A:121:VAL:N	1:A:123:PRO:HD2	2.31	0.42
1:A:125:GLN:O	1:A:151:LEU:HD13	2.11	0.42
1:A:210:ILE:CD1	1:A:248:SER:OG	2.68	0.42
1:A:285:HIS:HE1	1:A:367:GLU:HB3	1.80	0.42
1:A:366:ILE:HG13	1:A:367:GLU:H	1.82	0.42
1:A:457:LYS:HZ2	1:A:473:VAL:CG1	2.32	0.42
1:A:483:THR:O	1:A:524:TRP:CB	2.68	0.42
1:A:733:THR:HB	1:A:809:ILE:CD1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:804:THR:O	1:A:807:TRP:CA	2.67	0.42
1:B:120:PHE:C	1:B:123:PRO:CD	2.84	0.42
1:B:323:LEU:C	1:B:325:PHE:H	2.27	0.42
1:B:410:LEU:HD12	1:B:472:CYS:SG	2.60	0.42
1:B:594:GLY:O	1:B:595:SER:C	2.63	0.42
1:B:607:PHE:O	1:B:607:PHE:CG	2.68	0.42
1:B:724:PHE:CD2	1:B:798:PHE:CZ	3.08	0.42
1:B:725:ILE:CD1	1:B:728:PHE:HE1	2.32	0.42
1:B:791:GLY:O	1:B:849:HIS:O	2.36	0.42
1:B:807:TRP:CE3	1:B:864:SER:HA	2.54	0.42
1:A:241:LYS:HA	1:A:241:LYS:HD3	1.50	0.42
1:A:374:ILE:HG23	1:A:555:LYS:NZ	2.35	0.42
1:A:385:LYS:HE2	1:A:537:ARG:CD	2.50	0.42
1:A:415:LYS:HZ3	1:A:560:ASP:CG	2.26	0.42
1:A:426:PHE:O	1:A:429:SER:HB2	2.19	0.42
1:A:427:LEU:HD13	1:A:440:LEU:HB3	2.02	0.42
1:A:517:ARG:HG3	1:A:517:ARG:NH1	2.13	0.42
1:A:518:LYS:HG3	1:A:520:GLY:H	1.84	0.42
1:A:615:LYS:HG3	1:A:638:ASP:CG	2.44	0.42
1:A:683:GLN:NE2	1:A:743:TYR:CE1	2.86	0.42
1:A:752:LEU:CB	1:A:753:PRO:CD	2.67	0.42
1:A:772:ILE:HD12	1:A:772:ILE:N	2.30	0.42
1:A:773:THR:HG23	1:A:774:VAL:H	1.85	0.42
1:A:778:TYR:CZ	1:B:310:VAL:HG21	2.49	0.42
1:A:841:PHE:O	1:A:846:TRP:CD1	2.72	0.42
1:B:225:VAL:HG22	1:B:248:SER:OG	2.19	0.42
1:B:243:ASP:OD2	1:B:244:GLN:N	2.53	0.42
1:B:315:ARG:O	1:B:315:ARG:HD2	2.19	0.42
1:B:329:ILE:HD13	1:B:703:GLU:O	2.20	0.42
1:B:385:LYS:HE2	1:B:537:ARG:CD	2.50	0.42
1:B:730:ASP:C	1:B:734:LEU:HD22	2.43	0.42
1:B:773:THR:HG23	1:B:774:VAL:H	1.85	0.42
1:A:49:ILE:HD12	1:A:276:VAL:N	2.35	0.42
1:A:176:LEU:O	1:A:359:ILE:HD13	2.19	0.42
1:A:373:GLU:O	1:A:553:SER:N	2.38	0.42
1:A:524:TRP:N	1:A:524:TRP:CD2	2.85	0.42
1:A:615:LYS:C	1:A:641:SER:HB3	2.45	0.42
1:A:648:GLY:HA3	1:A:662:ALA:CA	2.50	0.42
1:A:807:TRP:CZ2	1:A:864:SER:HB3	2.54	0.42
1:A:810:PHE:HE1	1:A:827:LEU:HD12	1.82	0.42
1:B:27:GLU:CG	1:B:94:VAL:HG23	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:ILE:CD1	1:B:248:SER:OG	2.68	0.42
1:B:267:THR:HB	1:B:270:GLY:CA	2.44	0.42
1:B:648:GLY:HA3	1:B:662:ALA:CA	2.50	0.42
1:B:716:SER:OG	1:B:718:ASN:ND2	2.52	0.42
1:B:814:ALA:C	1:B:817:PRO:HD2	2.45	0.42
1:B:867:ILE:O	1:B:871:MET:HG2	2.20	0.42
1:A:49:ILE:CG1	1:A:50:GLU:N	2.83	0.42
1:A:225:VAL:CG2	1:A:248:SER:OG	2.68	0.42
1:A:295:THR:O	1:A:298:LEU:HB3	2.19	0.42
1:A:312:SER:OG	1:A:710:ILE:HG22	2.16	0.42
1:A:501:LYS:CE	1:A:505:PHE:CZ	2.86	0.42
1:A:586:LEU:HA	1:A:586:LEU:HD12	1.76	0.42
1:A:780:GLN:NE2	1:A:792:ASN:HB3	2.34	0.42
1:A:808:LEU:O	1:A:812:THR:HG23	2.19	0.42
1:A:912:VAL:HG12	1:A:912:VAL:O	2.20	0.42
1:B:154:ASN:HD22	1:B:154:ASN:C	2.28	0.42
1:B:219:ASP:HB3	1:B:220:ASP:H	1.50	0.42
1:B:375:LEU:C	1:B:554:ILE:HD12	2.34	0.42
1:B:390:LEU:CA	1:B:531:PRO:O	2.67	0.42
1:B:427:LEU:HD13	1:B:440:LEU:HB3	2.02	0.42
1:B:483:THR:O	1:B:524:TRP:CB	2.68	0.42
1:B:511:ARG:CD	1:B:511:ARG:O	2.68	0.42
1:B:675:ILE:O	1:B:682:ARG:NH2	2.53	0.42
1:B:738:TYR:CE1	1:B:824:SER:CB	3.02	0.42
1:B:740:ASN:HB3	1:B:814:ALA:HB1	2.01	0.42
1:B:912:VAL:HG12	1:B:912:VAL:O	2.20	0.42
1:A:286:PHE:CD2	1:A:290:LEU:HD11	2.45	0.42
1:A:309:TRP:CZ2	1:A:319:ILE:HD11	2.54	0.42
1:A:315:ARG:O	1:A:315:ARG:HD2	2.19	0.42
1:A:388:LEU:HD23	1:A:416:LYS:HB2	2.02	0.42
1:A:442:LYS:O	1:A:443:TYR:CE2	2.69	0.42
1:A:473:VAL:O	1:A:515:VAL:HA	2.20	0.42
1:A:552:LEU:CD2	1:A:678:LEU:HD21	2.28	0.42
1:A:668:ALA:C	1:A:670:GLY:N	2.63	0.42
1:A:679:LYS:HG2	1:A:682:ARG:HH21	1.55	0.42
1:A:728:PHE:CD2	1:A:728:PHE:O	2.73	0.42
1:A:758:MET:O	1:A:761:LEU:HB2	2.19	0.42
1:A:770:THR:O	1:A:773:THR:HG22	2.20	0.42
1:A:807:TRP:CE3	1:A:864:SER:HA	2.55	0.42
1:B:49:ILE:CG1	1:B:50:GLU:N	2.83	0.42
1:B:95:GLN:HA	1:B:98:ARG:CD	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:ILE:CG2	1:B:300:LEU:N	2.83	0.42
1:B:323:LEU:O	1:B:327:LEU:CD1	2.67	0.42
1:B:326:THR:OG1	1:B:327:LEU:HD12	2.19	0.42
1:B:336:VAL:HG22	1:B:337:GLY:N	2.34	0.42
1:B:383:LEU:CD1	1:B:556:MET:HE2	2.46	0.42
1:B:453:PRO:CA	1:B:592:MET:HB3	2.33	0.42
1:B:515:VAL:HG11	1:B:530:MET:HE1	1.98	0.42
1:B:518:LYS:HG3	1:B:520:GLY:H	1.84	0.42
1:B:560:ASP:HB3	1:B:564:ILE:HG23	1.99	0.42
1:B:615:LYS:HG3	1:B:638:ASP:CG	2.44	0.42
1:B:727:ILE:CD1	1:B:728:PHE:N	2.73	0.42
1:B:862:ILE:HD12	1:B:863:PHE:CE1	2.53	0.42
1:A:181:VAL:HA	1:A:189:LYS:O	2.20	0.41
1:A:224:GLN:HB2	1:A:253:ARG:HD2	2.01	0.41
1:A:286:PHE:CD2	1:A:290:LEU:CD1	3.02	0.41
1:A:299:ILE:CG2	1:A:300:LEU:N	2.83	0.41
1:A:351:ALA:O	1:A:355:LYS:N	2.50	0.41
1:A:408:ALA:HA	1:A:527:LEU:HB3	2.01	0.41
1:A:468:GLU:C	1:A:469:ARG:CG	2.86	0.41
1:A:652:GLU:C	1:A:652:GLU:OE1	2.63	0.41
1:A:853:SER:CA	1:A:857:VAL:HG13	2.48	0.41
1:B:224:GLN:HB2	1:B:253:ARG:HD2	2.01	0.41
1:B:285:HIS:O	1:B:288:GLU:CB	2.68	0.41
1:B:372:VAL:HG12	1:B:375:LEU:CD1	2.50	0.41
1:B:502:VAL:O	1:B:510:PHE:CD2	2.71	0.41
1:B:615:LYS:C	1:B:641:SER:HB3	2.45	0.41
1:B:689:TYR:CZ	1:B:761:LEU:HD22	2.30	0.41
1:B:691:TYR:CD2	1:B:692:VAL:N	2.88	0.41
1:A:225:VAL:HG11	1:A:227:GLN:OE1	2.21	0.41
1:A:301:VAL:CG1	1:A:302:ILE:H	2.32	0.41
1:A:323:LEU:O	1:A:327:LEU:CD1	2.67	0.41
1:A:360:VAL:HG22	1:A:664:ILE:CG1	2.50	0.41
1:A:362:LYS:HG2	1:A:364:SER:HB2	2.03	0.41
1:A:372:VAL:HG12	1:A:375:LEU:CD1	2.50	0.41
1:A:457:LYS:HZ2	1:A:473:VAL:HG11	1.85	0.41
1:A:543:THR:HG21	1:A:672:GLY:CA	2.39	0.41
1:A:675:ILE:O	1:A:682:ARG:NH2	2.53	0.41
1:A:771:TRP:C	1:A:775:THR:HG23	2.45	0.41
1:B:89:THR:O	1:B:91:GLU:N	2.40	0.41
1:B:201:ILE:HG23	1:B:257:PHE:CE2	2.52	0.41
1:B:295:THR:O	1:B:298:LEU:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:VAL:HG22	1:B:664:ILE:CG1	2.50	0.41
1:B:422:ILE:HD13	1:B:422:ILE:HG21	1.89	0.41
1:B:612:PRO:HB2	1:B:613:GLN:H	1.30	0.41
1:B:652:GLU:OE1	1:B:652:GLU:C	2.63	0.41
1:B:689:TYR:CD1	1:B:761:LEU:CD1	2.97	0.41
1:B:706:LEU:C	1:B:710:ILE:HG12	2.36	0.41
1:B:770:THR:O	1:B:773:THR:HG22	2.20	0.41
1:A:51:ASP:O	1:A:55:HIS:CB	2.64	0.41
1:A:285:HIS:O	1:A:288:GLU:CB	2.68	0.41
1:A:411:ALA:C	1:A:515:VAL:HG11	2.32	0.41
1:A:594:GLY:O	1:A:595:SER:C	2.63	0.41
1:A:691:TYR:CD2	1:A:692:VAL:N	2.88	0.41
1:A:813:ARG:HD2	1:A:820:SER:HG	1.69	0.41
1:B:60:ALA:O	1:B:61:GLU:HB2	2.20	0.41
1:B:530:MET:HE2	1:B:530:MET:N	2.34	0.41
1:B:567:GLU:HA	1:B:567:GLU:OE1	2.20	0.41
1:B:732:ALA:O	1:B:735:ALA:CA	2.67	0.41
1:B:750:TRP:O	1:B:754:LYS:HB2	2.19	0.41
1:B:770:THR:C	1:B:773:THR:CG2	2.93	0.41
1:B:799:LEU:CD2	1:B:842:THR:OG1	2.67	0.41
1:A:32:GLN:CB	1:A:33:PRO:CD	2.81	0.41
1:A:383:LEU:CD2	1:A:671:LEU:CG	2.99	0.41
1:A:483:THR:O	1:A:484:VAL:C	2.61	0.41
1:A:511:ARG:CD	1:A:511:ARG:O	2.68	0.41
1:A:513:LEU:O	1:A:529:ILE:HG22	2.20	0.41
1:A:814:ALA:C	1:A:817:PRO:HD2	2.45	0.41
1:A:862:ILE:HD12	1:A:863:PHE:CE1	2.53	0.41
1:A:867:ILE:O	1:A:871:MET:HG2	2.20	0.41
1:B:76:PRO:HB3	1:B:237:VAL:HG13	2.02	0.41
1:B:146:VAL:CG2	1:B:147:ILE:N	2.82	0.41
1:B:362:LYS:HG2	1:B:364:SER:HB2	2.02	0.41
1:B:812:THR:O	1:B:813:ARG:C	2.63	0.41
1:B:827:LEU:HD13	1:B:831:ILE:HG12	2.02	0.41
1:A:17:GLU:HB2	1:A:176:LEU:CD1	2.51	0.41
1:A:589:GLY:HA2	1:A:608:ALA:O	2.20	0.41
1:A:683:GLN:O	1:A:687:ARG:NE	2.54	0.41
1:B:155:ALA:C	1:B:158:GLY:H	2.21	0.41
1:B:383:LEU:HD23	1:B:671:LEU:CG	2.51	0.41
1:B:473:VAL:O	1:B:515:VAL:HA	2.20	0.41
1:B:573:GLY:O	1:B:574:LEU:C	2.62	0.41
1:B:863:PHE:C	1:B:865:PHE:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:867:ILE:CD1	1:B:868:PHE:N	2.77	0.41
1:A:251:VAL:C	1:A:253:ARG:N	2.78	0.41
1:A:323:LEU:C	1:A:325:PHE:H	2.27	0.41
1:A:383:LEU:HD23	1:A:671:LEU:CG	2.51	0.41
1:A:394:TYR:CE2	1:A:505:PHE:HE2	2.39	0.41
1:A:591:ASP:O	1:A:595:SER:N	2.53	0.41
1:A:678:LEU:C	1:A:682:ARG:NE	2.79	0.41
1:B:38:GLU:OE1	1:B:38:GLU:HA	2.20	0.41
1:B:517:ARG:HG3	1:B:517:ARG:NH1	2.13	0.41
1:B:543:THR:HG21	1:B:672:GLY:CA	2.39	0.41
1:B:738:TYR:CE1	1:B:824:SER:HB3	2.56	0.41
1:B:803:LEU:HD23	1:B:807:TRP:CZ2	2.30	0.41
1:A:456:LYS:HZ3	1:A:476:ALA:CB	2.22	0.41
1:A:499:LYS:O	1:A:499:LYS:HD3	2.20	0.41
1:B:513:LEU:O	1:B:529:ILE:HG22	2.20	0.41
1:B:621:ILE:HG13	1:B:622:LEU:N	2.36	0.41
1:B:648:GLY:HA3	1:B:662:ALA:HA	2.02	0.41
1:B:675:ILE:HG22	1:B:679:LYS:CE	2.39	0.41
1:B:683:GLN:O	1:B:687:ARG:NE	2.54	0.41
1:B:750:TRP:CZ2	1:B:753:PRO:CG	3.04	0.41
1:B:771:TRP:C	1:B:775:THR:HG23	2.45	0.41
1:A:100:TYR:HE1	1:A:270:GLY:CA	2.33	0.41
1:A:415:LYS:HZ1	1:A:511:ARG:CB	2.20	0.41
1:A:600:PHE:CZ	1:A:907:VAL:HG22	2.43	0.41
1:A:691:TYR:HD2	1:A:692:VAL:HG13	1.85	0.41
1:A:827:LEU:HD13	1:A:831:ILE:HG12	2.02	0.41
1:B:97:ARG:O	1:B:101:GLY:CA	2.69	0.41
1:B:182:VAL:CG2	1:B:183:LEU:N	2.84	0.41
1:B:589:GLY:HA2	1:B:608:ALA:O	2.19	0.41
1:B:679:LYS:HB2	1:B:743:TYR:OH	2.18	0.41
1:B:770:THR:O	1:B:773:THR:HG23	2.21	0.41
1:B:772:ILE:H	1:B:772:ILE:CD1	2.30	0.41
1:B:772:ILE:HD12	1:B:772:ILE:N	2.30	0.41
1:A:38:GLU:OE1	1:A:38:GLU:HA	2.20	0.41
1:A:47:ALA:O	1:A:51:ASP:OD2	2.37	0.41
1:A:49:ILE:HG21	1:A:49:ILE:HD13	1.88	0.41
1:A:274:ALA:HB3	1:A:275:LEU:HD11	2.01	0.41
1:A:409:CYS:SG	1:A:439:VAL:CG1	3.00	0.41
1:A:409:CYS:SG	1:A:439:VAL:O	2.79	0.41
1:A:437:LYS:HB2	1:A:438:SER:H	1.31	0.41
1:A:459:VAL:HG12	1:A:471:THR:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:ALA:HB2	1:A:586:LEU:CD2	2.51	0.41
1:A:811:ILE:CG2	1:A:867:ILE:HD12	2.51	0.41
1:A:812:THR:O	1:A:813:ARG:C	2.63	0.41
1:A:853:SER:O	1:A:857:VAL:CG2	2.69	0.41
1:B:17:GLU:HB2	1:B:176:LEU:CD1	2.51	0.41
1:B:217:VAL:HG13	1:B:218:THR:N	2.35	0.41
1:B:268:PHE:C	1:B:270:GLY:H	2.29	0.41
1:B:348:VAL:HG23	1:B:349:GLY:H	1.85	0.41
1:B:392:ASP:C	1:B:393:PRO:O	2.61	0.41
1:B:394:TYR:CE2	1:B:505:PHE:HE2	2.39	0.41
1:B:499:LYS:O	1:B:499:LYS:HD3	2.20	0.41
1:B:516:ALA:C	1:B:525:GLU:O	2.64	0.41
1:B:591:ASP:O	1:B:595:SER:N	2.54	0.41
1:B:593:PRO:CB	1:B:913:SER:CB	2.99	0.41
1:B:610:VAL:CG1	1:B:611:PHE:N	2.84	0.41
1:B:818:PHE:O	1:B:818:PHE:CG	2.74	0.41
1:B:843:ILE:HG22	1:B:844:TRP:N	2.36	0.41
1:B:853:SER:O	1:B:857:VAL:CG2	2.69	0.41
1:A:31:TYR:CE1	1:A:98:ARG:HB3	2.53	0.41
1:A:32:GLN:N	1:A:33:PRO:CD	2.79	0.41
1:A:149:GLY:O	1:A:152:LEU:HB3	2.21	0.41
1:A:246:PHE:CE2	1:A:248:SER:OG	2.74	0.41
1:A:329:ILE:HD13	1:A:703:GLU:O	2.20	0.41
1:A:392:ASP:C	1:A:393:PRO:O	2.61	0.41
1:A:484:VAL:HA	1:A:524:TRP:CB	2.40	0.41
1:A:513:LEU:CD1	1:A:514:GLY:N	2.59	0.41
1:A:690:ALA:O	1:A:812:THR:CG2	2.69	0.41
1:A:770:THR:O	1:A:773:THR:HG23	2.21	0.41
1:B:205:GLU:H	1:B:208:THR:HG21	1.86	0.41
1:B:224:GLN:HA	1:B:237:VAL:O	2.21	0.41
1:B:383:LEU:CD2	1:B:671:LEU:CG	2.99	0.41
1:B:409:CYS:SG	1:B:439:VAL:O	2.79	0.41
1:B:506:ALA:CB	1:B:510:PHE:CE2	2.84	0.41
1:B:552:LEU:HD23	1:B:678:LEU:HD22	1.90	0.41
1:B:566:ARG:HB2	1:B:586:LEU:N	2.36	0.41
1:B:679:LYS:O	1:B:682:ARG:HG3	2.21	0.41
1:A:217:VAL:HG13	1:A:218:THR:N	2.35	0.40
1:A:224:GLN:HA	1:A:237:VAL:O	2.21	0.40
1:A:539:ASP:O	1:A:543:THR:N	2.50	0.40
1:A:618:VAL:O	1:A:621:ILE:HG13	2.21	0.40
1:A:621:ILE:HG13	1:A:622:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:650:ALA:CB	1:A:659:ARG:CG	2.97	0.40
1:A:843:ILE:HG22	1:A:844:TRP:N	2.36	0.40
1:B:85:ARG:C	1:B:86:VAL:CG2	2.92	0.40
1:B:225:VAL:HG11	1:B:227:GLN:OE1	2.20	0.40
1:B:246:PHE:CE2	1:B:248:SER:OG	2.74	0.40
1:B:309:TRP:HD1	1:B:322:ILE:C	2.30	0.40
1:B:376:CYS:SG	1:B:555:LYS:HB2	2.62	0.40
1:B:385:LYS:HE3	1:B:536:PRO:C	2.37	0.40
1:B:409:CYS:SG	1:B:439:VAL:CG1	3.00	0.40
1:B:415:LYS:CD	1:B:511:ARG:HG3	2.43	0.40
1:B:429:SER:O	1:B:433:TYR:HD2	2.03	0.40
1:B:445:VAL:HG11	1:B:448:PHE:CE2	2.56	0.40
1:B:539:ASP:O	1:B:543:THR:N	2.50	0.40
1:A:125:GLN:O	1:A:128:MET:HB2	2.21	0.40
1:A:706:LEU:C	1:A:710:ILE:HG12	2.36	0.40
1:A:721:LEU:HB3	1:A:798:PHE:CE1	2.57	0.40
1:B:89:THR:OG1	1:B:91:GLU:HB3	2.22	0.40
1:B:394:TYR:OH	1:B:498:TYR:CD1	2.72	0.40
1:B:401:PRO:O	1:B:404:LEU:HB2	2.21	0.40
1:B:721:LEU:HB3	1:B:798:PHE:CE1	2.57	0.40
1:A:214:GLY:C	1:A:245:VAL:HG12	2.47	0.40
1:A:376:CYS:SG	1:A:555:LYS:HB2	2.62	0.40
1:A:384:THR:HG21	1:A:534:ASP:CB	2.50	0.40
1:A:483:THR:HB	1:A:484:VAL:H	1.71	0.40
1:A:513:LEU:HD13	1:A:514:GLY:CA	2.49	0.40
1:A:557:LEU:HD22	1:A:631:MET:CE	2.50	0.40
1:A:721:LEU:CD2	1:A:841:PHE:HD2	2.34	0.40
1:A:796:VAL:O	1:A:800:GLN:HG3	2.22	0.40
1:B:128:MET:HB2	1:B:151:LEU:HD11	2.04	0.40
1:B:459:VAL:HG12	1:B:471:THR:HG23	2.03	0.40
1:B:600:PHE:CZ	1:B:907:VAL:HG22	2.43	0.40
1:B:690:ALA:O	1:B:812:THR:CG2	2.69	0.40
1:B:733:THR:O	1:B:734:LEU:C	2.64	0.40
1:B:796:VAL:O	1:B:800:GLN:HG3	2.22	0.40
1:B:811:ILE:CG2	1:B:871:MET:CG	2.99	0.40
1:B:867:ILE:HD12	1:B:868:PHE:CA	2.51	0.40
1:A:47:ALA:HA	1:A:50:GLU:HG2	2.02	0.40
1:A:97:ARG:O	1:A:101:GLY:CA	2.69	0.40
1:A:309:TRP:HD1	1:A:322:ILE:C	2.30	0.40
1:A:334:VAL:O	1:A:336:VAL:N	2.55	0.40
1:A:348:VAL:HG23	1:A:349:GLY:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:LEU:CA	1:A:531:PRO:O	2.67	0.40
1:A:394:TYR:OH	1:A:498:TYR:CD1	2.72	0.40
1:A:445:VAL:HG11	1:A:448:PHE:CE2	2.56	0.40
1:A:566:ARG:HB2	1:A:586:LEU:N	2.36	0.40
1:A:610:VAL:CG1	1:A:611:PHE:H	2.35	0.40
1:A:610:VAL:CG1	1:A:611:PHE:N	2.84	0.40
1:A:750:TRP:O	1:A:754:LYS:HB2	2.19	0.40
1:A:770:THR:CA	1:A:773:THR:CG2	2.89	0.40
1:A:772:ILE:H	1:A:772:ILE:CD1	2.30	0.40
1:A:865:PHE:CE2	1:B:302:ILE:HD11	2.55	0.40
1:B:112:HIS:O	1:B:114:LEU:N	2.54	0.40
1:B:215:ARG:O	1:B:215:ARG:HD2	2.22	0.40
1:B:286:PHE:CD2	1:B:290:LEU:CD1	3.02	0.40
1:B:334:VAL:O	1:B:336:VAL:N	2.55	0.40
1:B:366:ILE:HG13	1:B:367:GLU:H	1.82	0.40
1:B:691:TYR:HD2	1:B:692:VAL:HG13	1.85	0.40
1:A:119:PHE:O	1:A:123:PRO:CG	2.70	0.40
1:A:182:VAL:CG2	1:A:183:LEU:N	2.84	0.40
1:A:593:PRO:CB	1:A:913:SER:CB	2.99	0.40
1:A:679:LYS:O	1:A:682:ARG:HG3	2.21	0.40
1:A:705:PHE:HZ	1:A:797:LEU:CD2	2.30	0.40
1:B:112:HIS:CB	1:B:116:PHE:HD1	2.24	0.40
1:B:125:GLN:HB3	1:B:151:LEU:CB	2.51	0.40
1:B:125:GLN:O	1:B:128:MET:HB2	2.21	0.40
1:B:174:LYS:HD3	1:B:174:LYS:HA	1.91	0.40
1:B:384:THR:HG21	1:B:534:ASP:CB	2.50	0.40
1:B:388:LEU:HD23	1:B:416:LYS:HB2	2.02	0.40
1:B:484:VAL:HA	1:B:524:TRP:CB	2.40	0.40
1:B:581:ALA:HB2	1:B:586:LEU:CD2	2.51	0.40
1:B:683:GLN:O	1:B:687:ARG:CD	2.65	0.40

All (61) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:LEU:C	1:A:139:GLU:OE1[4_555]	0.66	1.54
1:B:848:GLU:CD	1:B:849:HIS:CB[5_675]	0.74	1.46
1:B:848:GLU:CA	1:B:848:GLU:O[5_675]	0.91	1.29
1:A:138:LEU:CA	1:A:139:GLU:OE1[4_555]	1.02	1.18
1:B:848:GLU:CD	1:B:849:HIS:CG[5_675]	1.03	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:ARG:NH1	1:B:184:ARG:CB[2_765]	1.07	1.13
1:A:184:ARG:CB	1:B:85:ARG:NH1[2_765]	1.07	1.13
1:A:139:GLU:N	1:A:139:GLU:CG[4_555]	1.09	1.11
1:A:139:GLU:N	1:A:139:GLU:CD[4_555]	1.09	1.11
1:A:139:GLU:CA	1:A:139:GLU:CB[4_555]	1.17	1.03
1:A:85:ARG:NH1	1:B:184:ARG:CG[2_765]	1.20	1.00
1:A:184:ARG:CG	1:B:85:ARG:NH1[2_765]	1.20	1.00
1:B:848:GLU:CG	1:B:849:HIS:CG[5_675]	1.23	0.97
1:A:85:ARG:CZ	1:B:184:ARG:CG[2_765]	1.37	0.83
1:A:184:ARG:CG	1:B:85:ARG:CZ[2_765]	1.37	0.83
1:B:848:GLU:CG	1:B:849:HIS:CB[5_675]	1.39	0.81
1:A:138:LEU:C	1:A:139:GLU:CD[4_555]	1.46	0.74
1:B:848:GLU:OE2	1:B:849:HIS:CB[5_675]	1.49	0.71
1:A:85:ARG:NH2	1:B:184:ARG:CG[2_765]	1.54	0.66
1:A:139:GLU:CB	1:A:139:GLU:CB[4_555]	1.54	0.66
1:A:139:GLU:CA	1:A:139:GLU:CG[4_555]	1.54	0.66
1:A:184:ARG:CG	1:B:85:ARG:NH2[2_765]	1.54	0.66
1:A:138:LEU:CD1	1:A:139:GLU:OE2[4_555]	1.57	0.63
1:B:848:GLU:C	1:B:848:GLU:O[5_675]	1.58	0.62
1:B:787:VAL:CG2	1:B:844:TRP:CZ2[5_675]	1.61	0.59
1:B:848:GLU:C	1:B:848:GLU:CB[5_675]	1.61	0.59
1:A:139:GLU:N	1:A:139:GLU:OE1[4_555]	1.62	0.58
1:B:848:GLU:CG	1:B:849:HIS:CA[5_675]	1.64	0.56
1:B:848:GLU:CA	1:B:848:GLU:C[5_675]	1.67	0.53
1:B:848:GLU:OE1	1:B:849:HIS:ND1[5_675]	1.67	0.53
1:A:138:LEU:O	1:A:139:GLU:OE1[4_555]	1.69	0.51
1:A:138:LEU:CA	1:A:139:GLU:CD[4_555]	1.70	0.50
1:A:139:GLU:CB	1:A:139:GLU:CG[4_555]	1.70	0.50
1:B:848:GLU:C	1:B:848:GLU:C[5_675]	1.73	0.47
1:B:848:GLU:OE1	1:B:849:HIS:CB[5_675]	1.73	0.47
1:A:139:GLU:N	1:A:139:GLU:CB[4_555]	1.75	0.45
1:A:85:ARG:NH1	1:B:184:ARG:CA[2_765]	1.76	0.44
1:A:184:ARG:CA	1:B:85:ARG:NH1[2_765]	1.76	0.44
1:B:848:GLU:CB	1:B:849:HIS:N[5_675]	1.76	0.44
1:A:85:ARG:NE	1:B:183:LEU:O[2_765]	1.82	0.38
1:A:183:LEU:O	1:B:85:ARG:NE[2_765]	1.82	0.38
1:A:89:THR:CA	1:B:89:THR:CA[2_765]	1.84	0.36
1:A:85:ARG:CD	1:B:183:LEU:O[2_765]	1.85	0.35
1:A:183:LEU:O	1:B:85:ARG:CD[2_765]	1.85	0.35
1:A:89:THR:CB	1:B:89:THR:C[2_765]	1.86	0.34
1:A:89:THR:C	1:B:89:THR:CB[2_765]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:ARG:NH2	1:B:184:ARG:NE[2_765]	1.88	0.32
1:A:184:ARG:NE	1:B:85:ARG:NH2[2_765]	1.88	0.32
1:B:848:GLU:O	1:B:848:GLU:CB[5_675]	1.88	0.32
1:A:139:GLU:CA	1:A:139:GLU:CA[4_555]	1.89	0.31
1:A:85:ARG:NH2	1:B:184:ARG:CD[2_765]	1.92	0.28
1:A:184:ARG:CD	1:B:85:ARG:NH2[2_765]	1.92	0.28
1:A:89:THR:CB	1:B:89:THR:O[2_765]	1.95	0.25
1:A:89:THR:O	1:B:89:THR:CB[2_765]	1.95	0.25
1:A:83:ASP:OD2	1:B:186:GLY:CA[2_765]	1.96	0.24
1:A:186:GLY:CA	1:B:83:ASP:OD2[2_765]	1.96	0.24
1:A:89:THR:OG1	1:B:89:THR:O[2_765]	1.97	0.23
1:A:89:THR:O	1:B:89:THR:OG1[2_765]	1.97	0.23
1:B:787:VAL:CG2	1:B:844:TRP:CH2[5_675]	2.03	0.17
1:B:848:GLU:O	1:B:848:GLU:O[5_675]	2.03	0.17
1:A:139:GLU:CG	1:A:139:GLU:CG[4_555]	2.18	0.02

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	918/920 (100%)	655 (71%)	124 (14%)	139 (15%)	0	3
1	B	918/920 (100%)	655 (71%)	124 (14%)	139 (15%)	0	3
All	All	1836/1840 (100%)	1310 (71%)	248 (14%)	278 (15%)	0	3

All (278) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2	ALA
1	A	16	ILE
1	A	17	GLU
1	A	23	GLU
1	A	30	ALA

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Mol	Chain	Res	Type
1	A	32	GLN
1	A	34	LYS
1	A	35	PRO
1	A	54	SER
1	A	55	HIS
1	A	56	ASP
1	A	64	GLU
1	A	65	GLU
1	A	74	VAL
1	A	75	VAL
1	A	83	ASP
1	A	85	ARG
1	A	103	ASN
1	A	113	PHE
1	A	142	VAL
1	A	180	ALA
1	A	218	THR
1	A	219	ASP
1	A	220	ASP
1	A	233	GLU
1	A	241	LYS
1	A	248	SER
1	A	276	VAL
1	A	279	ALA
1	A	280	SER
1	A	357	LYS
1	A	397	ALA
1	A	400	ASP
1	A	402	GLU
1	A	403	ASP
1	A	413	SER
1	A	414	ARG
1	A	416	LYS
1	A	417	LYS
1	A	418	GLY
1	A	433	TYR
1	A	434	PRO
1	A	435	ARG
1	A	436	ALA
1	A	439	VAL
1	A	440	LEU
1	A	442	LYS

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Mol	Chain	Res	Type
1	A	484	VAL
1	A	487	ASP
1	A	490	ILE
1	A	517	ARG
1	A	536	PRO
1	A	537	ARG
1	A	576	THR
1	A	581	ALA
1	A	592	MET
1	A	605	ASP
1	A	612	PRO
1	A	613	GLN
1	A	634	ASP
1	A	645	ALA
1	A	668	ALA
1	A	714	ASN
1	A	715	ARG
1	A	719	ILE
1	A	720	GLU
1	A	731	VAL
1	A	736	ILE
1	A	743	TYR
1	A	756	TRP
1	A	783	ASN
1	A	813	ARG
1	A	819	TRP
1	A	822	ILE
1	A	824	SER
1	A	843	ILE
1	A	877	ILE
1	A	883	GLY
1	B	2	ALA
1	B	16	ILE
1	B	17	GLU
1	B	23	GLU
1	B	30	ALA
1	B	32	GLN
1	B	34	LYS
1	B	35	PRO
1	B	54	SER
1	B	55	HIS
1	B	56	ASP

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Mol	Chain	Res	Type
1	B	64	GLU
1	B	65	GLU
1	B	74	VAL
1	B	75	VAL
1	B	83	ASP
1	B	85	ARG
1	B	103	ASN
1	B	113	PHE
1	B	142	VAL
1	B	180	ALA
1	B	185	ASP
1	B	218	THR
1	B	219	ASP
1	B	220	ASP
1	B	233	GLU
1	B	241	LYS
1	B	248	SER
1	B	276	VAL
1	B	279	ALA
1	B	280	SER
1	B	357	LYS
1	B	397	ALA
1	B	400	ASP
1	B	402	GLU
1	B	403	ASP
1	B	413	SER
1	B	414	ARG
1	B	416	LYS
1	B	417	LYS
1	B	418	GLY
1	B	433	TYR
1	B	434	PRO
1	B	435	ARG
1	B	436	ALA
1	B	439	VAL
1	B	440	LEU
1	B	442	LYS
1	B	484	VAL
1	B	487	ASP
1	B	490	ILE
1	B	517	ARG
1	B	536	PRO

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Mol	Chain	Res	Type
1	B	537	ARG
1	B	576	THR
1	B	581	ALA
1	B	592	MET
1	B	605	ASP
1	B	612	PRO
1	B	613	GLN
1	B	634	ASP
1	B	645	ALA
1	B	668	ALA
1	B	714	ASN
1	B	715	ARG
1	B	719	ILE
1	B	720	GLU
1	B	731	VAL
1	B	736	ILE
1	B	743	TYR
1	B	756	TRP
1	B	783	ASN
1	B	813	ARG
1	B	819	TRP
1	B	822	ILE
1	B	824	SER
1	B	843	ILE
1	B	877	ILE
1	B	883	GLY
1	A	36	LYS
1	A	53	GLU
1	A	67	ALA
1	A	76	PRO
1	A	79	MET
1	A	81	GLN
1	A	86	VAL
1	A	112	HIS
1	A	118	GLY
1	A	179	LYS
1	A	185	ASP
1	A	196	VAL
1	A	221	ALA
1	A	242	GLY
1	A	252	LYS
1	A	278	ALA

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Mol	Chain	Res	Type
1	A	379	LYS
1	A	399	VAL
1	A	454	VAL
1	A	465	PRO
1	A	468	GLU
1	A	519	ARG
1	A	521	GLU
1	A	583	ARG
1	A	590	GLY
1	A	596	GLU
1	A	633	GLY
1	A	752	LEU
1	A	757	GLY
1	A	823	PRO
1	B	36	LYS
1	B	53	GLU
1	B	67	ALA
1	B	76	PRO
1	B	79	MET
1	B	81	GLN
1	B	86	VAL
1	B	112	HIS
1	B	118	GLY
1	B	179	LYS
1	B	196	VAL
1	B	221	ALA
1	B	242	GLY
1	B	252	LYS
1	B	278	ALA
1	B	379	LYS
1	B	399	VAL
1	B	454	VAL
1	B	465	PRO
1	B	468	GLU
1	B	519	ARG
1	B	521	GLU
1	B	583	ARG
1	B	590	GLY
1	B	596	GLU
1	B	633	GLY
1	B	752	LEU
1	B	757	GLY

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Mol	Chain	Res	Type
1	B	823	PRO
1	A	82	THR
1	A	156	VAL
1	A	247	ALA
1	A	274	ALA
1	A	319	ILE
1	A	510	PHE
1	A	538	HIS
1	A	790	PHE
1	A	912	VAL
1	B	82	THR
1	B	156	VAL
1	B	247	ALA
1	B	274	ALA
1	B	319	ILE
1	B	510	PHE
1	B	538	HIS
1	B	790	PHE
1	B	912	VAL
1	A	12	LEU
1	A	38	GLU
1	A	251	VAL
1	A	316	SER
1	A	392	ASP
1	A	437	LYS
1	A	457	LYS
1	A	534	ASP
1	A	771	TRP
1	A	905	PHE
1	B	12	LEU
1	B	38	GLU
1	B	251	VAL
1	B	316	SER
1	B	392	ASP
1	B	437	LYS
1	B	457	LYS
1	B	534	ASP
1	B	771	TRP
1	B	905	PHE
1	A	334	VAL
1	A	523	SER
1	A	669	PRO

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Mol	Chain	Res	Type
1	A	712	ILE
1	B	334	VAL
1	B	523	SER
1	B	669	PRO
1	B	712	ILE
1	A	477	PRO
1	A	531	PRO
1	A	574	LEU
1	A	594	GLY
1	A	733	THR
1	B	477	PRO
1	B	531	PRO
1	B	574	LEU
1	B	594	GLY
1	B	733	THR
1	A	593	PRO
1	B	593	PRO
1	A	664	ILE
1	A	781	GLY
1	B	664	ILE
1	B	781	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	751/751 (100%)	670 (89%)	81 (11%)	6	21
1	B	751/751 (100%)	670 (89%)	81 (11%)	6	21
All	All	1502/1502 (100%)	1340 (89%)	162 (11%)	8	21

All (162) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	LEU
1	A	16	ILE

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Mol	Chain	Res	Type
1	A	18	SER
1	A	20	LYS
1	A	21	PHE
1	A	37	VAL
1	A	41	GLU
1	A	45	ILE
1	A	65	GLU
1	A	80	LEU
1	A	82	THR
1	A	85	ARG
1	A	88	LEU
1	A	89	THR
1	A	96	ARG
1	A	134	LEU
1	A	174	LYS
1	A	179	LYS
1	A	191	ILE
1	A	215	ARG
1	A	223	LEU
1	A	225	VAL
1	A	241	LYS
1	A	275	LEU
1	A	277	ASN
1	A	298	LEU
1	A	305	LEU
1	A	309	TRP
1	A	324	GLU
1	A	331	ILE
1	A	332	ILE
1	A	341	VAL
1	A	384	THR
1	A	394	TYR
1	A	407	THR
1	A	419	ILE
1	A	430	LEU
1	A	435	ARG
1	A	437	LYS
1	A	438	SER
1	A	442	LYS
1	A	452	ASP
1	A	457	LYS
1	A	458	VAL

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Mol	Chain	Res	Type
1	A	474	LYS
1	A	499	LYS
1	A	508	ARG
1	A	510	PHE
1	A	513	LEU
1	A	517	ARG
1	A	518	LYS
1	A	524	TRP
1	A	530	MET
1	A	533	MET
1	A	543	THR
1	A	566	ARG
1	A	592	MET
1	A	595	SER
1	A	607	PHE
1	A	614	HIS
1	A	625	ARG
1	A	643	LYS
1	A	644	LYS
1	A	664	ILE
1	A	666	PHE
1	A	674	ILE
1	A	682	ARG
1	A	691	TYR
1	A	701	HIS
1	A	708	LEU
1	A	709	TRP
1	A	725	ILE
1	A	739	ASP
1	A	740	ASN
1	A	743	TYR
1	A	749	LYS
1	A	778	TYR
1	A	810	PHE
1	A	841	PHE
1	A	862	ILE
1	A	894	LYS
1	B	12	LEU
1	B	16	ILE
1	B	18	SER
1	B	20	LYS
1	B	21	PHE

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Mol	Chain	Res	Type
1	B	37	VAL
1	B	41	GLU
1	B	45	ILE
1	B	65	GLU
1	B	80	LEU
1	B	82	THR
1	B	85	ARG
1	B	88	LEU
1	B	89	THR
1	B	96	ARG
1	B	134	LEU
1	B	174	LYS
1	B	179	LYS
1	B	191	ILE
1	B	215	ARG
1	B	223	LEU
1	B	225	VAL
1	B	241	LYS
1	B	275	LEU
1	B	277	ASN
1	B	298	LEU
1	B	305	LEU
1	B	309	TRP
1	B	324	GLU
1	B	331	ILE
1	B	332	ILE
1	B	341	VAL
1	B	384	THR
1	B	394	TYR
1	B	407	THR
1	B	419	ILE
1	B	430	LEU
1	B	435	ARG
1	B	437	LYS
1	B	438	SER
1	B	442	LYS
1	B	452	ASP
1	B	457	LYS
1	B	458	VAL
1	B	474	LYS
1	B	499	LYS
1	B	508	ARG

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Mol	Chain	Res	Type
1	B	510	PHE
1	B	513	LEU
1	B	517	ARG
1	B	518	LYS
1	B	524	TRP
1	B	530	MET
1	B	533	MET
1	B	543	THR
1	B	566	ARG
1	B	592	MET
1	B	595	SER
1	B	607	PHE
1	B	614	HIS
1	B	625	ARG
1	B	643	LYS
1	B	644	LYS
1	B	664	ILE
1	B	666	PHE
1	B	674	ILE
1	B	682	ARG
1	B	691	TYR
1	B	701	HIS
1	B	708	LEU
1	B	709	TRP
1	B	725	ILE
1	B	739	ASP
1	B	740	ASN
1	B	743	TYR
1	B	749	LYS
1	B	778	TYR
1	B	810	PHE
1	B	841	PHE
1	B	862	ILE
1	B	894	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (45) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	HIS
1	A	58	HIS
1	A	81	GLN
1	A	125	GLN

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Mol	Chain	Res	Type
1	A	161	GLN
1	A	240	HIS
1	A	244	GLN
1	A	266	ASN
1	A	285	HIS
1	A	317	ASN
1	A	321	GLN
1	A	361	GLN
1	A	449	HIS
1	A	488	HIS
1	A	500	ASN
1	A	580	ASN
1	A	623	GLN
1	A	624	GLN
1	A	637	ASN
1	A	718	ASN
1	A	780	GLN
1	A	896	ASN
1	A	910	GLN
1	B	4	HIS
1	B	81	GLN
1	B	125	GLN
1	B	161	GLN
1	B	240	HIS
1	B	244	GLN
1	B	266	ASN
1	B	285	HIS
1	B	317	ASN
1	B	321	GLN
1	B	361	GLN
1	B	449	HIS
1	B	488	HIS
1	B	500	ASN
1	B	580	ASN
1	B	623	GLN
1	B	624	GLN
1	B	637	ASN
1	B	718	ASN
1	B	780	GLN
1	B	896	ASN
1	B	910	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.