



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 06:02 am BST

PDB ID : 4YFX
Title : Escherichia coli RNA polymerase in complex with Myxopyronin B
Authors : Molodtsov, V.; Fleming, P.R.; Eyermann, C.J.; Ferguson, A.D.; Foulk, M.A.;
McKinney, D.C.; Masse, C.E.; Buurman, E.T.; Murakami, K.S.
Deposited on : 2015-02-25
Resolution : 3.84 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

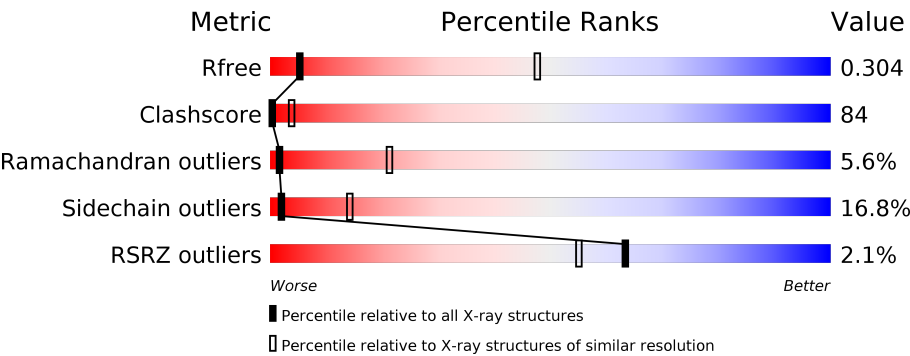
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.84 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1242 (4.08-3.60)
Clashscore	141614	1004 (4.04-3.64)
Ramachandran outliers	138981	1003 (4.06-3.62)
Sidechain outliers	138945	1266 (4.08-3.60)
RSRZ outliers	127900	1149 (4.08-3.60)

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

Mol	Chain	Length	Quality of chain
1	A	329	<div><div></div><div><div>13%</div><div>44%</div><div>12%</div><div>•</div><div>30%</div></div></div>
1	B	329	<div><div>2%</div><div><div>8%</div><div>48%</div><div>28%</div><div>•</div><div>12%</div></div></div>
1	G	329	<div><div>•</div><div><div>14%</div><div>47%</div><div>8%</div><div>31%</div></div></div>
1	H	329	<div><div>7%</div><div><div>13%</div><div>42%</div><div>11%</div><div>34%</div></div></div>
2	C	1342	<div><div></div><div><div>17%</div><div>66%</div><div>15%</div><div>•</div></div></div>
2	I	1342	<div><div>2%</div><div><div>20%</div><div>65%</div><div>14%</div><div>•</div></div></div>

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Mol	Chain	Length	Quality of chain
3	D	1407	<div><div></div><div></div><div></div><div></div><div></div></div> <div>12%52%17%•17%</div>
3	J	1407	<div>%<div></div><div></div><div></div><div></div><div></div></div> <div>13%53%15%•18%</div>
4	E	91	<div><div></div><div></div><div></div><div></div><div></div></div> <div>22%67%9%•</div>
4	K	91	<div><div></div><div></div><div></div><div></div><div></div></div> <div>8%19%60%8%13%</div>
5	F	613	<div><div></div><div></div><div></div><div></div><div></div></div> <div>4%16%46%12%•25%</div>
5	L	613	<div><div></div><div></div><div></div><div></div><div></div></div> <div>3%17%48%9%25%</div>

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 55388 atoms, of which 33 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1779	1108	316	349	6			
1	B	289	Total	C	N	O	S	0	0	0
			2239	1403	393	435	8			
1	G	227	Total	C	N	O	S	0	0	0
			1755	1093	311	345	6			
1	H	216	Total	C	N	O	S	0	0	0
			1662	1038	292	326	6			

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1340	Total	C	N	O	S	0	0	0
			10564	6628	1838	2055	43			
2	I	1340	Total	C	N	O	S	0	0	0
			10552	6621	1835	2053	43			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1166	Total	C	N	O	S	0	0	0
			9062	5701	1622	1693	46			
3	J	1155	Total	C	N	O	S	0	0	0
			9021	5675	1617	1683	46			

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	89	Total	C	N	O	S	0	0	0
			691	421	129	140	1			
4	K	79	Total	C	N	O	S	0	0	0
			627	382	118	126	1			

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	458	Total	C	N	O	S	0	0	0
			3726	2332	668	703	23			
5	L	458	Total	C	N	O	S	0	0	0
			3640	2282	647	690	21			

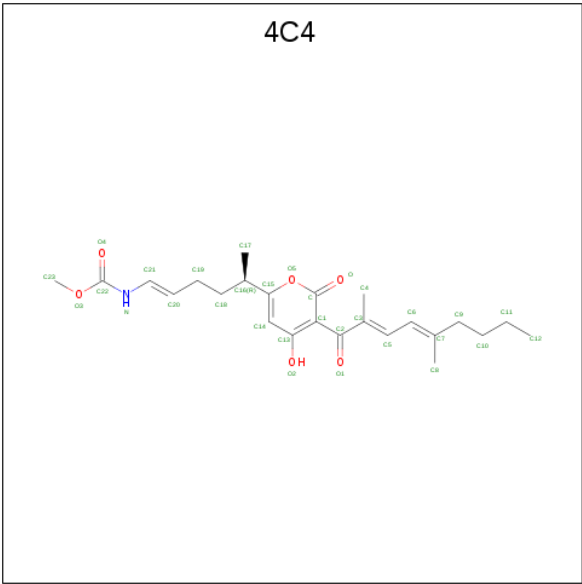
- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	J	1	Total	Mg	0	0
			1	1		
6	D	1	Total	Mg	0	0
			1	1		

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	J	2	Total	Zn	0	0
			2	2		
7	D	2	Total	Zn	0	0
			2	2		

- Molecule 8 is Myxopyronin B (three-letter code: 4C4) (formula: C₂₄H₃₃NO₆).

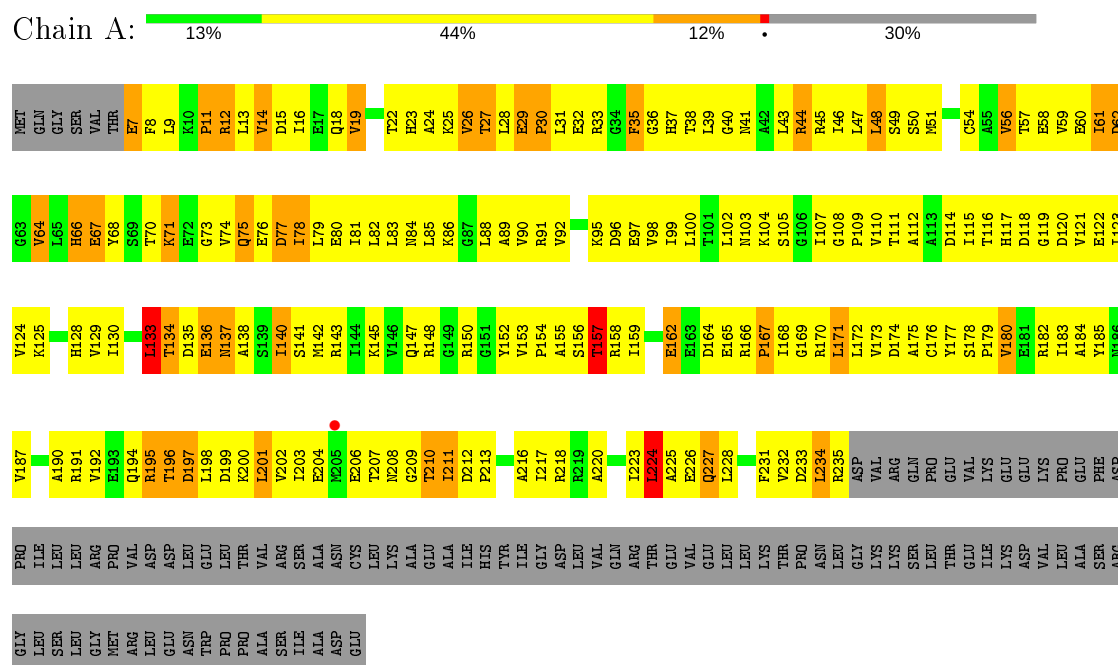


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	D	1	Total	C	H	N	O	0	0
			64	24	33	1	6		

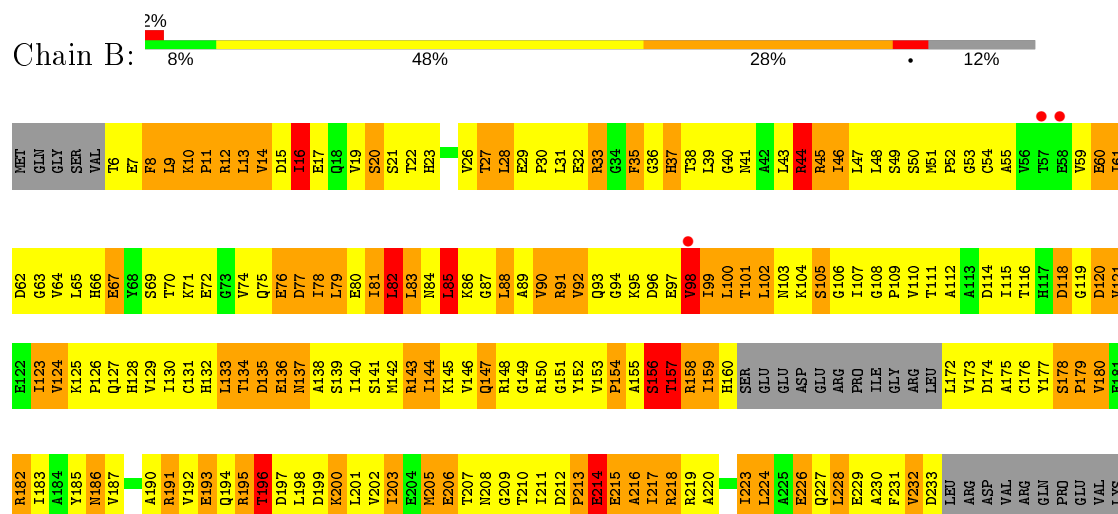
3 Residue-property plots

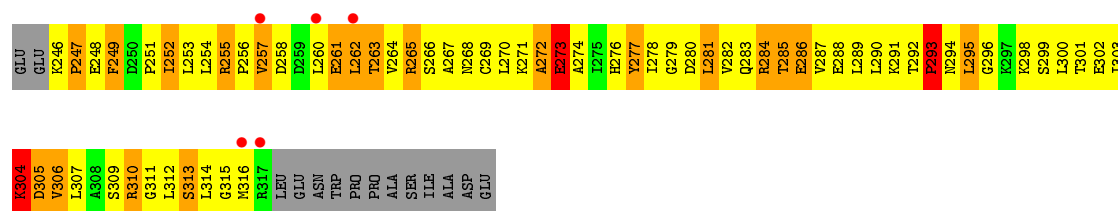
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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

• Molecule 1: DNA-directed RNA polymerase subunit alpha

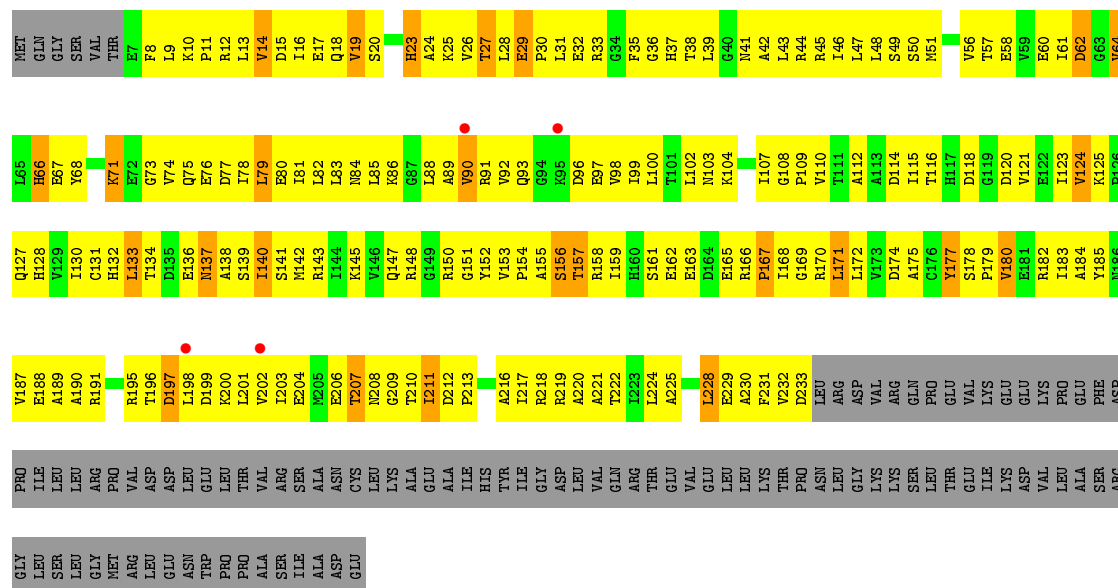
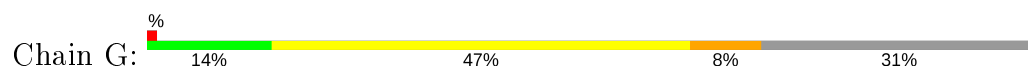


• Molecule 1: DNA-directed RNA polymerase subunit alpha

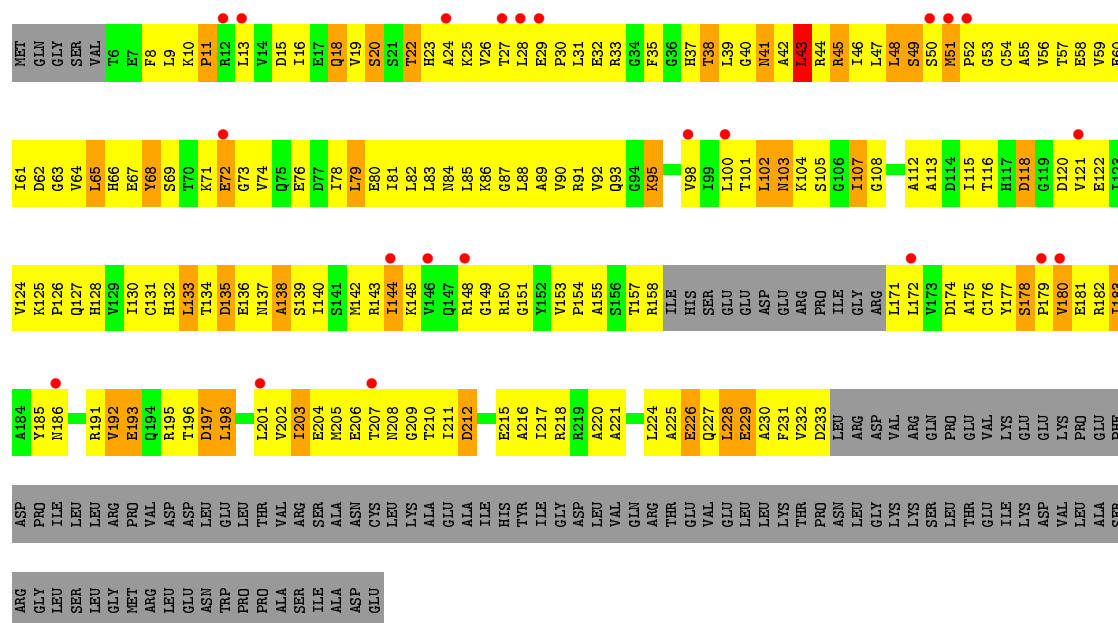





• Molecule 1: DNA-directed RNA polymerase subunit alpha

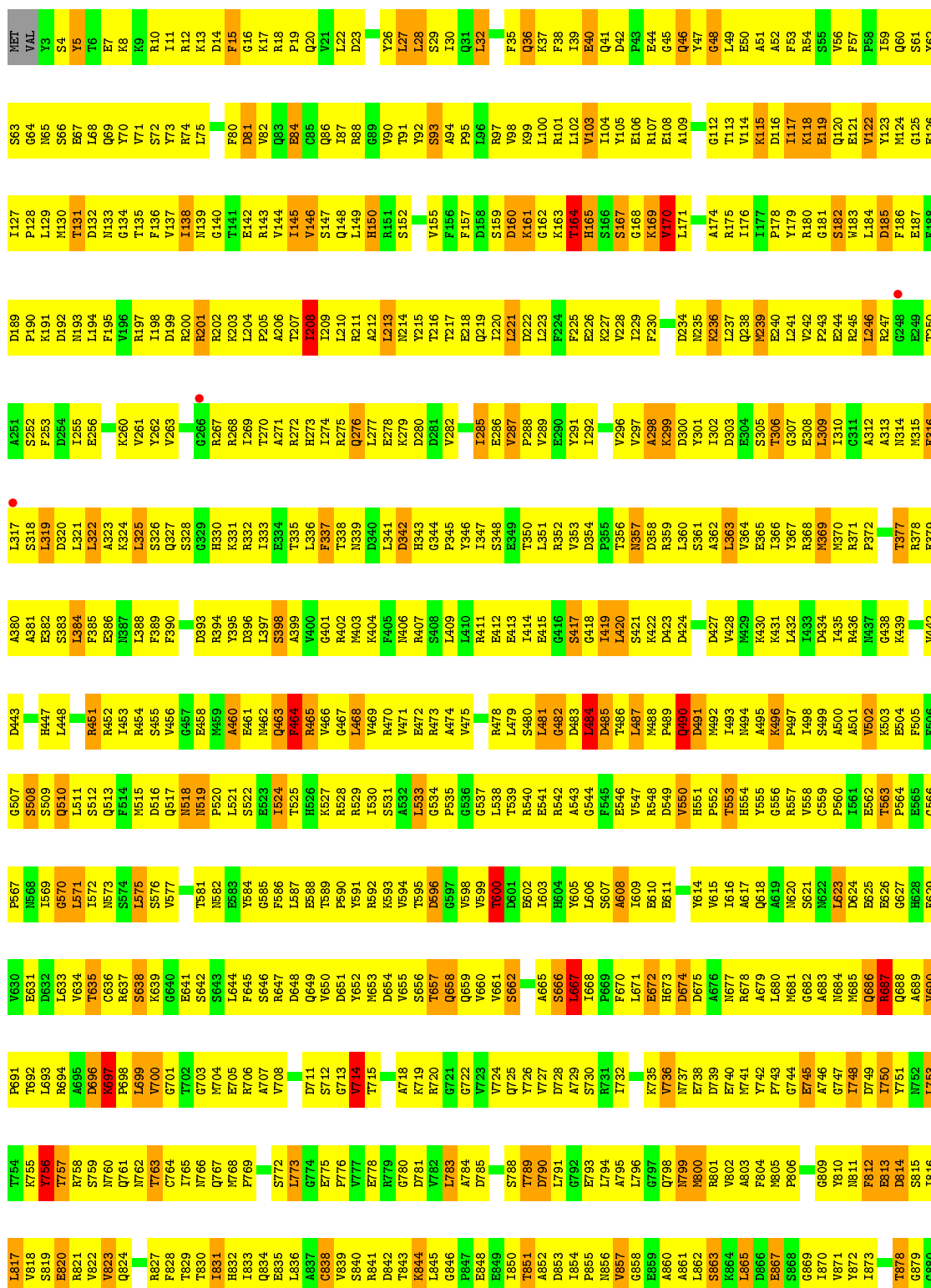


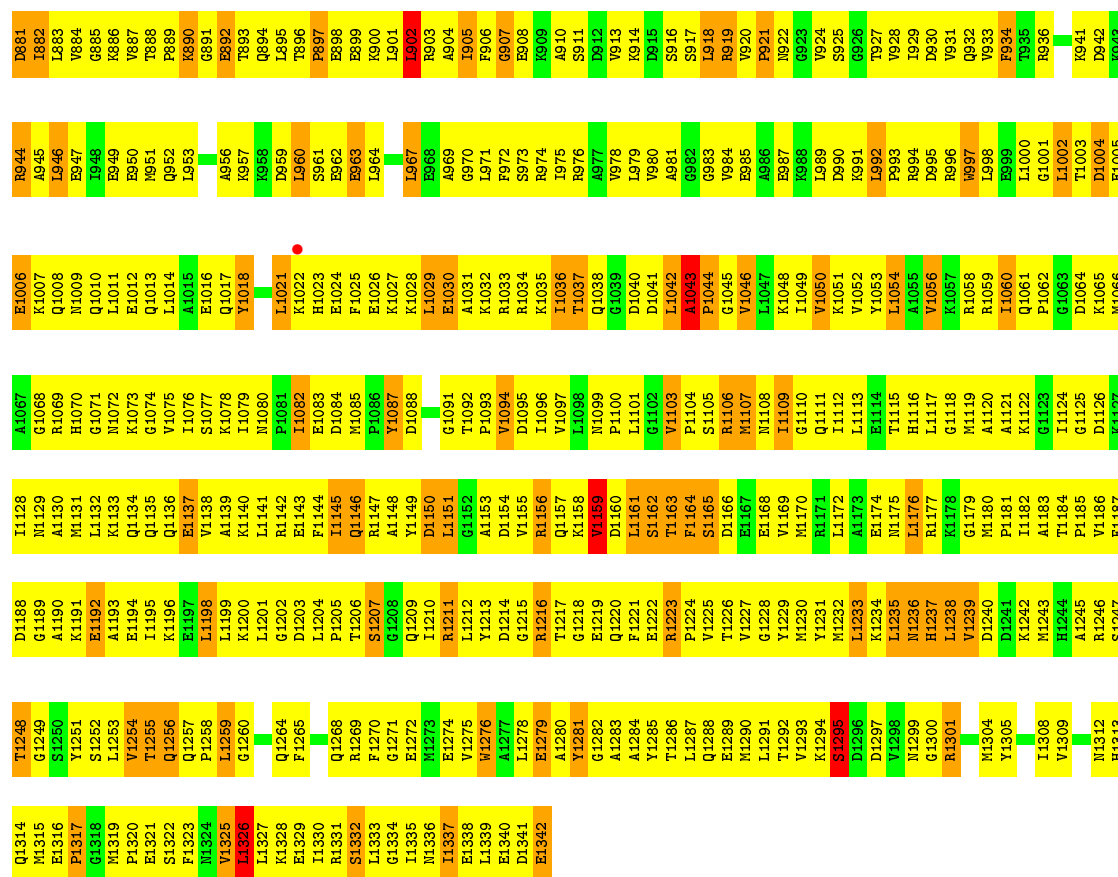
• Molecule 1: DNA-directed RNA polymerase subunit alpha



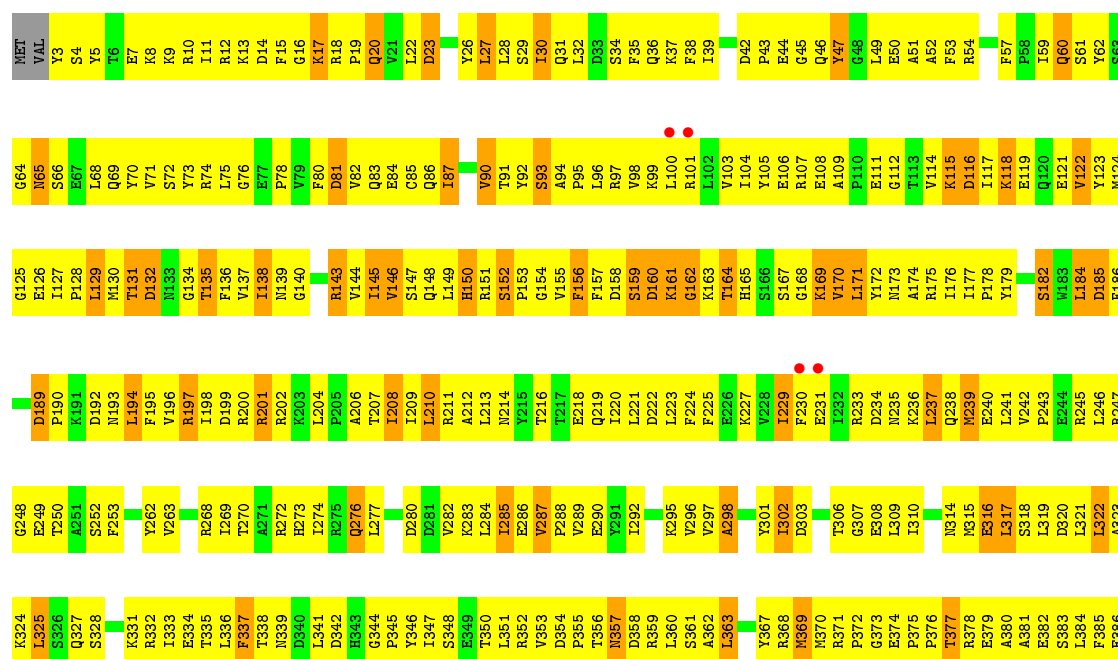
- Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C:  17% 66% 15%





• Molecule 2: DNA-directed RNA polymerase subunit beta








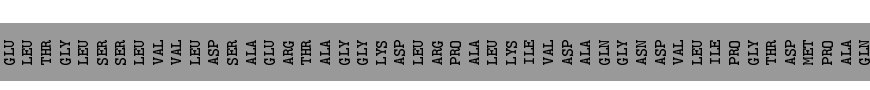
● Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain D: 12% 52% 17% 17%

MET	LYS	ASP	LEU	LEU	LYS	PHE	L8	K9	A10	C70	Q11	Q11	T12	T12	T14	E15	E15	F17	D18	A19	I20	K21	I22	A23	A25	S26	P27	D28	M29	V30	R31	S32	W33	S34	F35	G36	E37	V38	R39	K40	P41	E42	E42	T43	L44	L45	Y46	R47	T48	F49	F50	P51	E52	R53	D54	L55	G56	F57	C58	A59	R60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

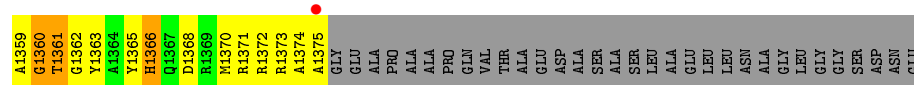
● Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain J: 

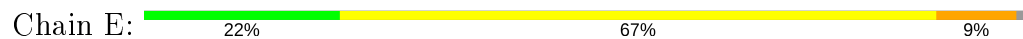


Position	Met	Ala	Val	Leu	Ile	Thr	Arg	Pro	His	Lys	Gln	Asn</
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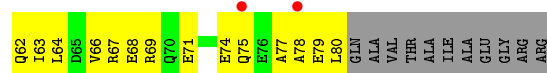
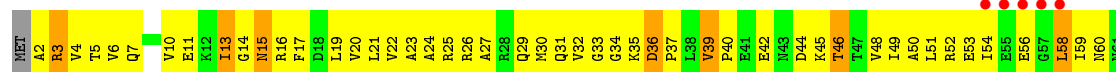




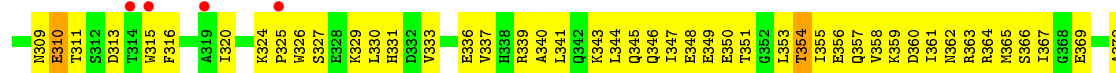
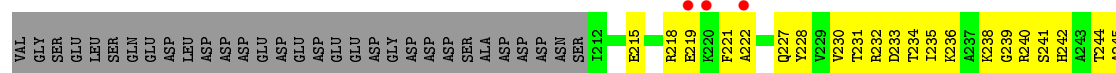
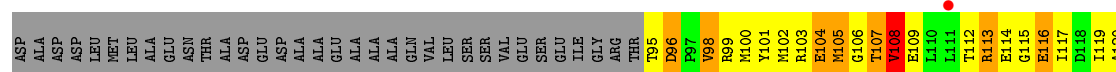
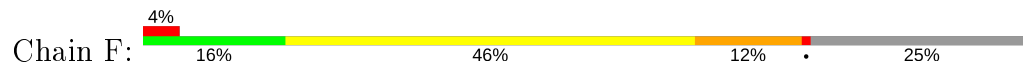
• Molecule 4: DNA-directed RNA polymerase subunit omega

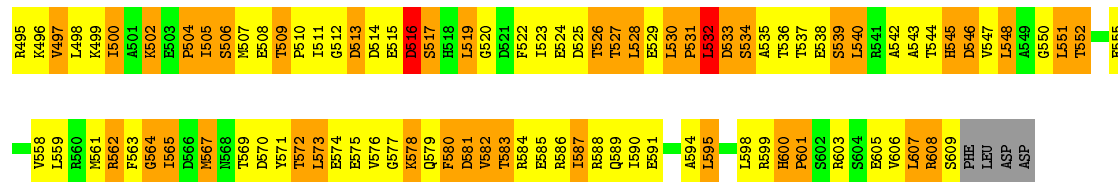


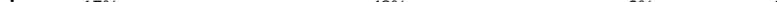
• Molecule 4: DNA-directed RNA polymerase subunit omega

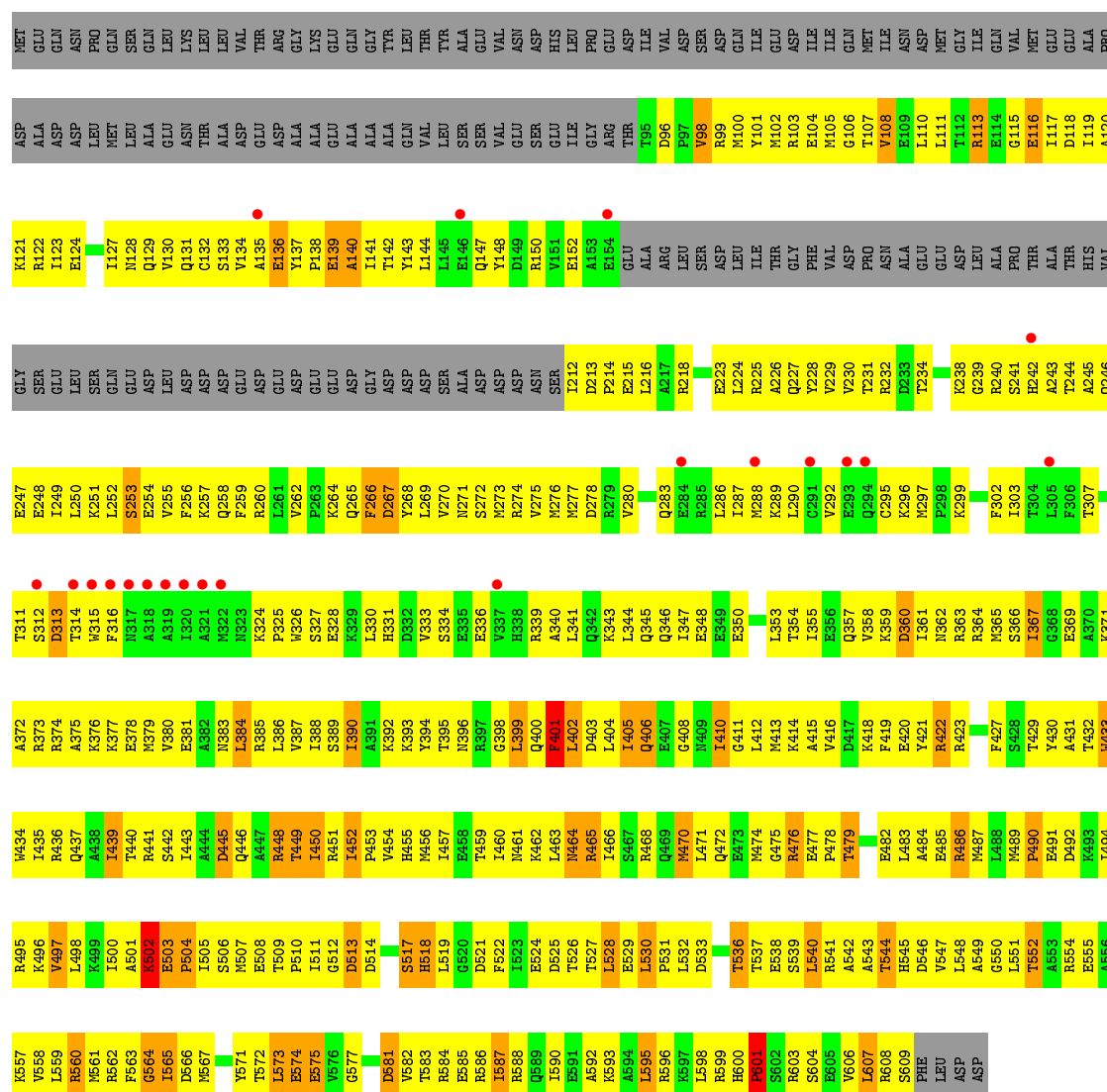


• Molecule 5: RNA polymerase sigma factor RpoD





Chain L: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	188.52Å 205.18Å 310.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.95 – 3.84 44.64 – 3.84	Depositor EDS
% Data completeness (in resolution range)	92.4 (29.95-3.84) 79.3 (44.64-3.84)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.08 (at 3.88Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, R_{free}	0.236 , 0.300 0.241 , 0.304	Depositor DCC
R_{free} test set	1859 reflections (1.75%)	wwPDB-VP
Wilson B-factor (Å ²)	136.1	Xtriage
Anisotropy	0.197	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 117.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	55388	wwPDB-VP
Average B, all atoms (Å ²)	170.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.12% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, MG, 4C4

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	0.75	0/1801	1.11	5/2440 (0.2%)
1	B	0.52	0/2265	0.90	3/3066 (0.1%)
1	G	0.49	0/1777	0.88	0/2408
1	H	0.49	0/1681	0.93	4/2278 (0.2%)
2	C	0.79	4/10733 (0.0%)	1.13	39/14482 (0.3%)
2	I	0.63	0/10721	0.98	23/14468 (0.2%)
3	D	0.77	3/9202 (0.0%)	1.15	45/12424 (0.4%)
3	J	0.62	1/9161 (0.0%)	1.02	17/12366 (0.1%)
4	E	0.67	0/693	1.01	0/935
4	K	0.36	0/629	0.72	0/847
5	F	0.57	0/3777	0.93	6/5076 (0.1%)
5	L	0.48	0/3689	0.83	4/4969 (0.1%)
All	All	0.67	8/56129 (0.0%)	1.03	146/75759 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
2	C	0	3
2	I	0	3
3	D	0	5
3	J	0	2
All	All	0	14

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	377	PHE	CE1-CZ	6.64	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1276	TRP	CB-CG	-6.57	1.38	1.50
2	C	1270	PHE	CE1-CZ	6.17	1.49	1.37
3	D	1319	PHE	CE2-CZ	6.01	1.48	1.37
3	J	686	TRP	CB-CG	-5.50	1.40	1.50
2	C	5	TYR	CD1-CE1	-5.37	1.31	1.39
2	C	997	TRP	CB-CG	-5.30	1.40	1.50
3	D	409	TRP	CB-CG	-5.03	1.41	1.50

All (146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	540	LEU	CA-CB-CG	-9.96	92.38	115.30
2	C	32	LEU	CA-CB-CG	-9.67	93.07	115.30
2	I	575	LEU	CA-CB-CG	-9.22	94.10	115.30
2	C	1161	LEU	CA-CB-CG	-9.16	94.23	115.30
3	D	788	LEU	CA-CB-CG	-9.10	94.38	115.30
2	C	571	LEU	CA-CB-CG	-9.02	94.55	115.30
2	I	184	LEU	CA-CB-CG	-8.77	95.13	115.30
2	I	210	LEU	CA-CB-CG	-8.74	95.19	115.30
1	A	48	LEU	CA-CB-CG	-8.42	95.94	115.30
2	C	112	GLY	N-CA-C	-8.32	92.29	113.10
5	F	483	LEU	CA-CB-CG	-8.18	96.49	115.30
2	C	27	LEU	CA-CB-CG	-8.08	96.72	115.30
1	H	29	GLU	C-N-CD	-7.83	103.36	120.60
2	C	667	LEU	CA-CB-CG	-7.80	97.36	115.30
2	C	575	LEU	CA-CB-CG	-7.70	97.59	115.30
3	J	283	LEU	CA-CB-CG	-7.61	97.81	115.30
3	J	508	LEU	CA-CB-CG	-7.59	97.84	115.30
2	C	1235	LEU	CA-CB-CG	-7.58	97.87	115.30
2	I	322	LEU	CA-CB-CG	-7.51	98.02	115.30
3	D	387	LEU	CA-CB-CG	-7.48	98.09	115.30
3	D	441	LEU	CA-CB-CG	-7.48	98.11	115.30
2	I	27	LEU	CA-CB-CG	-7.44	98.19	115.30
2	C	468	LEU	CA-CB-CG	-7.41	98.27	115.30
3	D	249	LEU	CB-CG-CD1	-7.37	98.47	111.00
2	I	1259	LEU	CA-CB-CG	-7.36	98.37	115.30
3	D	541	LEU	CA-CB-CG	-7.29	98.53	115.30
5	F	540	LEU	CA-CB-CG	-7.28	98.56	115.30
3	D	249	LEU	CA-CB-CG	7.13	131.69	115.30
3	D	223	LEU	CA-CB-CG	-7.04	99.10	115.30
3	J	188	LEU	CA-CB-CG	-7.03	99.13	115.30
3	D	358	GLY	N-CA-C	-6.99	95.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1043	ALA	C-N-CD	6.98	143.06	128.40
2	C	221	LEU	CA-CB-CG	6.96	131.32	115.30
3	D	344	GLY	N-CA-C	-6.90	95.84	113.10
2	C	960	LEU	CA-CB-CG	-6.89	99.45	115.30
2	C	322	LEU	CA-CB-CG	-6.89	99.45	115.30
2	C	902	LEU	CA-CB-CG	-6.84	99.57	115.30
5	F	551	LEU	CA-CB-CG	-6.78	99.70	115.30
2	C	946	LEU	CA-CB-CG	-6.76	99.75	115.30
3	J	783	LEU	CA-CB-CG	-6.75	99.77	115.30
3	J	115	TRP	CA-CB-CG	-6.68	101.01	113.70
3	J	351	GLY	N-CA-C	-6.61	96.57	113.10
2	C	699	LEU	CA-CB-CG	-6.56	100.21	115.30
3	J	610	ARG	NE-CZ-NH2	-6.56	117.02	120.30
3	J	610	ARG	NE-CZ-NH1	6.55	123.58	120.30
2	C	48	GLY	N-CA-C	-6.50	96.86	113.10
3	D	285	LEU	CA-CB-CG	-6.46	100.45	115.30
3	D	189	LEU	CA-CB-CG	-6.39	100.59	115.30
2	C	533	LEU	CA-CB-CG	-6.37	100.66	115.30
3	J	376	LEU	CA-CB-CG	-6.31	100.80	115.30
3	D	217	LEU	CA-CB-CG	6.28	129.74	115.30
2	C	544	GLY	N-CA-C	-6.24	97.50	113.10
2	I	1291	LEU	CA-CB-CG	6.24	129.64	115.30
3	D	474	LEU	CA-CB-CG	-6.23	100.98	115.30
3	D	444	GLY	N-CA-C	-6.21	97.57	113.10
2	I	363	LEU	CA-CB-CG	-6.21	101.02	115.30
2	C	246	LEU	CA-CB-CG	-6.20	101.05	115.30
3	D	1175	LEU	CA-CB-CG	-6.14	101.18	115.30
2	I	468	LEU	CA-CB-CG	-6.14	101.18	115.30
2	C	1326	LEU	CB-CG-CD2	-6.12	100.59	111.00
3	D	1144	LEU	CA-CB-CG	-6.07	101.33	115.30
3	D	24	LEU	CA-CB-CG	-6.05	101.39	115.30
3	D	1314	LEU	CA-CB-CG	-6.04	101.41	115.30
2	C	1021	LEU	CA-CB-CG	-6.02	101.46	115.30
3	D	368	LEU	CA-CB-CG	6.01	129.13	115.30
3	D	239	LEU	CA-CB-CG	-5.98	101.56	115.30
2	I	416	GLY	N-CA-C	-5.97	98.17	113.10
2	C	1176	LEU	CA-CB-CG	-5.97	101.57	115.30
2	C	967	LEU	CA-CB-CG	-5.97	101.57	115.30
1	H	29	GLU	C-N-CA	5.95	146.99	122.00
3	D	508	LEU	CA-CB-CG	-5.94	101.64	115.30
3	D	605	LEU	CA-CB-CG	-5.92	101.68	115.30
2	C	1259	LEU	CA-CB-CG	-5.91	101.70	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	107	LEU	CA-CB-CG	-5.89	101.74	115.30
2	I	694	ARG	NE-CZ-NH2	-5.88	117.36	120.30
2	C	223	LEU	CA-CB-CG	-5.82	101.90	115.30
1	A	224	LEU	CB-CG-CD2	-5.75	101.22	111.00
2	C	28	LEU	CB-CG-CD2	-5.73	101.26	111.00
5	L	384	LEU	CA-CB-CG	-5.73	102.13	115.30
3	J	857	LEU	CA-CB-CG	5.67	128.34	115.30
2	I	667	LEU	CA-CB-CG	-5.65	102.30	115.30
2	C	1316	GLU	C-N-CD	-5.64	108.18	120.60
2	I	699	LEU	CA-CB-CG	-5.64	102.32	115.30
3	J	449	LEU	CA-CB-CG	-5.64	102.32	115.30
2	C	451	ARG	N-CA-C	-5.63	95.80	111.00
3	D	472	LEU	CA-CB-CG	-5.61	102.39	115.30
2	I	197	ARG	NE-CZ-NH2	-5.61	117.50	120.30
3	D	426	ALA	C-N-CD	5.60	140.17	128.40
3	D	120	LEU	C-N-CD	5.60	140.16	128.40
1	H	228	LEU	CA-CB-CG	-5.59	102.45	115.30
2	I	194	LEU	CA-CB-CG	-5.58	102.46	115.30
3	D	449	LEU	CA-CB-CG	-5.58	102.46	115.30
2	C	1216	ARG	NE-CZ-NH1	-5.58	117.51	120.30
3	D	796	LEU	CA-CB-CG	-5.56	102.52	115.30
5	F	500	ILE	CG1-CB-CG2	-5.55	99.19	111.40
2	C	865	LEU	CB-CG-CD2	-5.54	101.58	111.00
2	I	1267	GLY	N-CA-C	-5.50	99.35	113.10
3	D	1138	LEU	CA-CB-CG	-5.50	102.66	115.30
1	B	28	LEU	CA-CB-CG	-5.48	102.69	115.30
3	D	115	TRP	CA-CB-CG	-5.43	103.38	113.70
3	D	432	LEU	CB-CG-CD1	-5.43	101.77	111.00
2	I	946	LEU	CA-CB-CG	-5.41	102.85	115.30
3	D	166	LEU	CA-CB-CG	-5.41	102.85	115.30
2	C	1002	LEU	CA-CB-CG	-5.41	102.86	115.30
1	B	83	LEU	CA-CB-CG	-5.40	102.88	115.30
1	A	133	LEU	CA-CB-CG	-5.39	102.91	115.30
3	D	743	MET	CB-CG-SD	-5.38	96.25	112.40
1	B	65	LEU	CA-CB-CG	5.38	127.68	115.30
3	D	120	LEU	CA-CB-CG	-5.36	102.98	115.30
2	I	566	GLY	N-CA-C	5.36	126.50	113.10
5	L	433	TRP	CA-CB-CG	-5.36	103.52	113.70
2	I	671	LEU	CA-CB-CG	-5.34	103.01	115.30
3	D	1211	SER	N-CA-C	-5.34	96.59	111.00
3	D	472	LEU	CB-CG-CD2	-5.33	101.94	111.00
5	F	548	LEU	CA-CB-CG	-5.30	103.10	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	279	LEU	CA-CB-CG	-5.30	103.11	115.30
3	J	53	ARG	N-CA-C	-5.30	96.70	111.00
3	J	169	LEU	CA-CB-CG	-5.28	103.15	115.30
2	C	1150	ASP	CB-CG-OD2	-5.26	113.57	118.30
3	D	307	LEU	CA-CB-CG	-5.25	103.22	115.30
2	C	1295	SER	N-CA-C	5.24	125.15	111.00
3	D	407	VAL	CB-CA-C	-5.23	101.47	111.40
2	I	644	LEU	CA-CB-CG	5.22	127.30	115.30
2	I	565	GLU	CA-CB-CG	5.21	124.87	113.40
1	A	140	ILE	CB-CA-C	-5.17	101.26	111.60
3	D	333	GLY	N-CA-C	-5.16	100.19	113.10
2	C	27	LEU	CB-CG-CD2	-5.15	102.24	111.00
3	D	422	LEU	CB-CG-CD2	-5.15	102.25	111.00
5	L	503	GLU	C-N-CD	-5.14	109.29	120.60
2	C	1001	GLY	N-CA-C	-5.12	100.29	113.10
3	J	368	LEU	CA-CB-CG	5.12	127.08	115.30
2	C	464	PHE	CB-CG-CD1	-5.12	117.22	120.80
2	C	490	GLN	N-CA-C	-5.11	97.19	111.00
3	D	336	GLY	N-CA-C	5.11	125.88	113.10
2	I	47	TYR	CA-CB-CG	5.10	123.10	113.40
3	J	103	GLY	N-CA-C	-5.09	100.38	113.10
1	H	43	LEU	CA-CB-CG	-5.08	103.61	115.30
1	A	201	LEU	CA-CB-CG	-5.08	103.62	115.30
2	I	171	LEU	CA-CB-CG	5.08	126.98	115.30
3	D	224	LEU	CA-CB-CG	-5.07	103.63	115.30
3	D	558	ASP	CB-CG-OD2	5.05	122.85	118.30
5	F	532	LEU	CA-CB-CG	5.04	126.90	115.30
2	C	1042	LEU	CA-CB-CG	-5.03	103.74	115.30
3	J	189	LEU	CA-CB-CG	-5.02	103.76	115.30
3	D	478	LEU	CA-CB-CG	-5.01	103.77	115.30
3	J	194	LEU	CB-CG-CD2	-5.00	102.49	111.00

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	196	THR	Peptide
2	C	236	LYS	Peptide
2	C	600	THR	Peptide
2	C	658	GLN	Peptide
3	D	111	THR	Peptide
3	D	1184	ASP	Peptide

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Mol	Chain	Res	Type	Group
3	D	14	THR	Peptide
3	D	250	ARG	Peptide
3	D	902	ASP	Peptide
2	I	109	ALA	Peptide
2	I	236	LYS	Peptide
2	I	564	PRO	Peptide
3	J	250	ARG	Peptide
3	J	901	ARG	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1779	0	1806	347	0
1	B	2239	0	2300	482	0
1	G	1755	0	1773	325	0
1	H	1662	0	1687	285	0
2	C	10564	0	10571	1842	1
2	I	10552	0	10548	1775	0
3	D	9062	0	9227	1784	1
3	J	9021	0	9213	1774	1
4	E	691	0	695	88	0
4	K	627	0	634	104	0
5	F	3726	0	3798	623	1
5	L	3640	0	3650	576	0
6	D	1	0	0	0	0
6	J	1	0	0	0	0
7	D	2	0	0	0	0
7	J	2	0	0	0	0
8	D	31	33	32	17	0
All	All	55355	33	55934	9319	2

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 84.

All (9319) 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:B:88:LEU:HD12	1:B:89:ALA:H	1.07	1.18
2:I:280:ASP:HB3	2:I:282:VAL:HG23	1.24	1.18
3:D:850:LYS:HG2	3:D:857:LEU:HD11	1.24	1.18
2:C:798:GLN:HB2	2:C:828:PHE:HE1	1.04	1.17
3:D:1372:ARG:HH21	3:J:854:ALA:HB3	1.07	1.15
3:J:120:LEU:HB3	3:J:121:PRO:HD3	1.25	1.15
3:J:706:VAL:HG12	3:J:715:LYS:HB3	1.28	1.15
2:C:119:GLU:HB2	2:C:489:PRO:HD2	1.23	1.15
2:I:1131:MET:HE2	2:I:1141:LEU:HD12	1.27	1.15
1:H:42:ALA:HA	1:H:45:ARG:HG3	1.22	1.15
3:D:857:LEU:HD23	3:D:871:LEU:HD21	1.21	1.14
3:J:520:ALA:HB1	3:J:543:SER:HB3	1.27	1.13
1:A:14:VAL:HG22	1:A:15:ASP:H	1.10	1.13
3:J:265:LEU:HD11	3:J:330:MET:HE1	1.26	1.13
2:C:646:SER:HB3	2:C:649:GLN:HG3	1.27	1.12
1:G:38:THR:HA	1:H:45:ARG:HD3	1.25	1.12
1:B:112:ALA:HB3	1:B:126:PRO:HA	1.21	1.12
2:C:1160:ASP:HB2	2:C:1161:LEU:HA	1.32	1.12
1:G:224:LEU:HD21	1:H:224:LEU:HD21	1.22	1.12
1:H:153:VAL:HB	1:H:175:ALA:HB3	1.12	1.12
1:B:102:LEU:HD21	1:B:115:ILE:HA	1.28	1.11
2:C:1062:PRO:HA	2:C:1076:ILE:HD11	1.31	1.11
2:C:607:SER:HB3	2:C:610:GLU:HG3	1.31	1.11
2:I:344:GLY:HA3	2:I:346:TYR:CE1	1.86	1.11
2:I:59:ILE:HG21	2:I:475:VAL:HG11	1.30	1.11
1:B:35:PHE:HA	1:B:38:THR:HG22	1.19	1.11
1:B:183:ILE:HG22	1:B:205:MET:HG3	1.24	1.10
3:D:614:LEU:HD23	4:E:7:GLN:HB2	1.25	1.10
2:C:594:VAL:HG22	2:C:599:VAL:HA	1.27	1.10
3:J:510:LEU:HD23	3:J:601:ILE:HD11	1.10	1.10
5:F:279:ARG:HH21	5:F:347:ILE:HG12	1.12	1.10
3:J:268:LEU:HD11	3:J:324:LEU:HD13	1.33	1.09
2:I:1160:ASP:HB2	2:I:1162:SER:H	1.12	1.09
1:B:284:ARG:HA	1:B:284:ARG:NH1	1.65	1.09
2:C:839:VAL:HG12	2:C:1049:ILE:HG12	1.34	1.09
1:A:44:ARG:HB2	1:A:183:ILE:HG21	1.13	1.09
1:B:81:ILE:HG22	1:B:85:LEU:HD21	1.31	1.09
1:B:153:VAL:HG13	1:B:157:THR:HG21	1.28	1.09
5:F:572:THR:HG23	5:F:575:GLU:HB3	1.31	1.08
2:I:700:VAL:HG11	2:I:1114:GLU:HG3	1.31	1.08
2:I:884:VAL:HG11	2:I:1050:VAL:HG21	1.35	1.08
2:C:1144:PHE:HE1	2:C:1201:LEU:HD11	1.17	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:59:ILE:HG21	2:C:475:VAL:HG11	1.36	1.08
5:L:540:LEU:HD13	5:L:607:LEU:HG	1.34	1.08
2:I:810:TYR:CE2	3:J:359:PRO:HD2	1.90	1.07
3:J:647:PRO:HG3	3:J:697:MET:HB3	1.10	1.07
5:F:234:THR:HB	5:F:245:ALA:HB1	1.30	1.07
5:L:406:GLN:HA	5:L:406:GLN:HE21	1.17	1.07
3:J:573:THR:HG23	3:J:576:ARG:HG3	1.33	1.07
3:D:850:LYS:HB3	3:D:851:PRO:HD2	1.35	1.06
1:G:45:ARG:CG	1:H:38:THR:HB	1.84	1.06
3:D:390:LEU:CD2	3:D:407:VAL:HG11	1.85	1.06
2:I:1151:LEU:HG	2:I:1198:LEU:HD23	1.37	1.06
5:F:562:ARG:HG2	5:F:573:LEU:HD12	1.29	1.06
2:C:1160:ASP:CB	2:C:1161:LEU:HA	1.85	1.06
3:J:339:ARG:HB3	3:J:340:GLN:CA	1.85	1.06
3:D:259:ARG:HG2	3:D:260:PHE:H	1.21	1.05
3:D:647:PRO:HG3	3:D:697:MET:HB3	1.32	1.05
5:F:139:GLU:HA	5:F:142:THR:HG22	1.09	1.05
3:J:336:GLY:HA2	3:J:1327:GLU:H	1.19	1.05
2:C:1196:LYS:HD2	2:C:1206:THR:HG23	1.33	1.05
2:C:1142:ARG:HH12	2:C:1165:SER:HA	1.21	1.05
1:A:81:ILE:HA	1:A:84:ASN:HD22	1.17	1.05
1:B:33:ARG:HG2	1:B:33:ARG:HH11	1.22	1.05
2:C:1062:PRO:CA	2:C:1076:ILE:HD11	1.87	1.05
2:C:145:ILE:HG22	2:C:456:VAL:HG22	1.34	1.05
2:I:798:GLN:HB2	2:I:828:PHE:HE1	1.13	1.04
2:C:1272:GLU:HB2	3:D:342:LEU:HD12	1.37	1.04
2:I:338:THR:HG21	2:I:345:PRO:HB3	1.09	1.04
3:J:325:LYS:HE3	3:J:330:MET:HG2	1.35	1.04
3:D:268:LEU:HD22	3:D:306:LEU:HA	1.40	1.03
2:I:1211:ARG:HB2	2:I:1220:GLN:HE21	1.22	1.03
2:I:1284:ALA:HB3	3:J:1361:THR:HB	1.35	1.03
2:I:1131:MET:HB3	2:I:1141:LEU:HD11	1.37	1.03
3:J:495:ASN:O	3:J:497:GLU:N	1.91	1.03
2:C:496:LYS:HZ2	2:C:497:PRO:HG3	1.22	1.03
3:J:1358:PRO:HB3	3:J:1366:HIS:CD2	1.92	1.03
5:L:412:LEU:HB2	5:L:435:ILE:HD11	1.38	1.03
1:H:118:ASP:HB2	1:H:121:VAL:HB	1.06	1.03
2:C:302:ILE:HG22	2:C:309:LEU:HA	1.35	1.03
3:D:252:LEU:HD23	3:D:262:THR:HB	1.34	1.03
3:J:814:CYS:HB2	3:J:889:ASP:HB3	1.39	1.03
2:C:59:ILE:HD12	2:C:475:VAL:HG21	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:423:LEU:HD12	3:D:468:VAL:HG12	1.41	1.02
5:L:108:VAL:HA	5:L:385:ARG:HH12	1.24	1.02
2:C:483:ASP:HB2	2:C:486:THR:HG21	1.08	1.02
3:J:746:LEU:HG	3:J:758:PRO:HB3	1.37	1.02
3:J:80:HIS:HB3	3:J:83:VAL:HG11	1.40	1.02
2:C:1144:PHE:CE1	2:C:1201:LEU:HD11	1.94	1.02
2:I:338:THR:CG2	2:I:345:PRO:HB3	1.90	1.02
3:J:520:ALA:HB3	3:J:546:ALA:HB2	1.39	1.02
2:C:1284:ALA:CB	3:D:1361:THR:HB	1.90	1.02
5:L:530:LEU:H	5:L:530:LEU:HD12	1.20	1.02
2:C:817:LEU:CD1	2:C:1097:VAL:HB	1.90	1.01
5:F:495:ARG:HA	5:F:498:LEU:HD23	1.36	1.01
3:D:1215:GLU:HG3	3:D:1220:ILE:HD11	1.39	1.01
3:D:288:PRO:HG3	5:F:380:VAL:HG11	1.38	1.01
3:D:357:VAL:HG22	3:D:461:PHE:HE1	1.21	1.01
3:D:836:ARG:HE	3:D:869:CYS:HB3	1.25	1.01
1:A:54:CYS:HB3	1:A:148:ARG:HA	1.41	1.01
1:B:310:ARG:HA	1:B:310:ARG:HE	1.25	1.01
3:J:647:PRO:HG3	3:J:697:MET:CB	1.89	1.01
3:D:706:VAL:HG12	3:D:715:LYS:HB3	1.41	1.01
1:B:35:PHE:HA	1:B:38:THR:CG2	1.91	1.00
2:C:798:GLN:HB2	2:C:828:PHE:CE1	1.96	1.00
3:J:1280:VAL:HG11	3:J:1304:ARG:HH21	1.19	1.00
2:C:810:TYR:HE1	2:C:1078:LYS:HD2	1.26	1.00
3:J:242:LEU:HD23	3:J:243:PRO:HD2	1.44	1.00
1:A:162:GLU:HG3	1:A:165:GLU:HG2	1.38	1.00
2:I:176:ILE:HB	2:I:184:LEU:HB3	1.43	1.00
3:J:42:GLU:HG2	5:L:451:ARG:NE	1.75	1.00
1:A:61:ILE:HG22	1:A:64:VAL:CG2	1.91	1.00
1:B:29:GLU:HB3	1:B:200:LYS:HB2	1.44	1.00
2:I:174:ALA:HB2	2:I:432:LEU:HD13	1.41	0.99
1:A:207:THR:HG22	1:A:209:GLY:H	1.27	0.99
2:C:1024:GLU:HA	2:C:1027:LYS:HD3	1.42	0.99
1:A:50:SER:HB3	1:B:8:PHE:HZ	1.25	0.99
2:I:646:SER:HB3	2:I:649:GLN:HG3	1.43	0.99
3:D:872:LEU:HD22	3:D:877:VAL:HG11	1.45	0.99
3:D:357:VAL:HG22	3:D:461:PHE:CE1	1.98	0.99
3:J:48:THR:O	3:J:50:LYS:N	1.95	0.99
2:C:1305:TYR:HE1	3:D:379:PRO:CG	1.74	0.98
2:C:985:GLU:O	2:C:989:LEU:N	1.95	0.98
3:D:519:ASN:HB2	3:D:709:ARG:HB2	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:26:TYR:HE2	2:I:28:LEU:HB2	1.26	0.98
2:C:1278:LEU:HD12	2:C:1287:LEU:HB2	1.45	0.98
2:I:993:PRO:HG2	2:I:996:ARG:HB2	1.46	0.98
3:J:423:LEU:HD12	3:J:468:VAL:HG12	1.43	0.98
2:C:799:ASN:HB3	2:C:1231:TYR:HD1	1.25	0.98
2:C:817:LEU:HD23	2:C:1080:ASN:HD22	1.26	0.98
2:I:176:ILE:HD11	2:I:428:VAL:HG21	1.45	0.98
3:J:339:ARG:HB3	3:J:340:GLN:HA	1.45	0.98
1:B:41:ASN:OD1	1:B:44:ARG:NH1	1.96	0.98
3:J:339:ARG:HB3	3:J:340:GLN:CB	1.94	0.98
2:C:818:VAL:HG23	2:C:1096:ILE:HG23	1.43	0.98
3:D:888:CYS:SG	3:D:890:THR:HG22	2.04	0.98
3:J:268:LEU:HD22	3:J:306:LEU:HD23	1.44	0.98
2:C:882:ILE:HD12	2:C:882:ILE:H	1.29	0.98
3:D:1280:VAL:HG21	3:D:1304:ARG:HE	1.29	0.97
5:F:540:LEU:HD13	5:F:607:LEU:HD22	1.46	0.97
3:J:510:LEU:CD2	3:J:601:ILE:HD11	1.94	0.97
3:D:510:LEU:HD23	3:D:601:ILE:HD11	1.42	0.97
1:G:45:ARG:HG2	1:H:38:THR:CB	1.94	0.97
1:G:45:ARG:HG2	1:H:38:THR:HB	0.98	0.97
2:I:944:ARG:HE	2:I:948:ILE:HD11	1.29	0.97
3:J:615:LYS:HZ2	4:K:7:GLN:HG2	1.24	0.97
3:D:80:HIS:HB3	3:D:83:VAL:HG11	1.47	0.97
3:J:865:HIS:CE1	3:J:867:GLN:HB2	2.00	0.97
2:C:119:GLU:HG3	2:C:488:MET:HB3	1.45	0.97
3:J:210:SER:HB2	3:J:213:LYS:HB2	1.46	0.97
2:C:883:LEU:HB2	2:C:918:LEU:HD11	1.44	0.97
3:J:72:CYS:N	3:J:88:CYS:SG	2.36	0.97
2:C:960:LEU:HD13	2:C:963:GLU:HG3	1.45	0.96
5:F:100:MET:O	5:F:104:GLU:HB2	1.65	0.96
3:J:1316:THR:HG22	3:J:1318:SER:H	1.29	0.96
2:C:122:VAL:HG21	2:C:493:ILE:HG21	1.45	0.96
3:D:888:CYS:HA	3:D:898:CYS:SG	2.05	0.96
3:J:872:LEU:HD22	3:J:877:VAL:HG11	1.47	0.96
2:C:590:PRO:HG3	2:C:605:TYR:CZ	2.00	0.96
5:L:240:ARG:HB3	5:L:244:THR:HB	1.48	0.96
1:B:284:ARG:HH11	1:B:284:ARG:CA	1.77	0.96
3:D:694:SER:HB2	3:D:738:ARG:HD3	1.48	0.96
4:K:49:ILE:HA	4:K:52:ARG:HD3	1.47	0.96
3:D:1159:ILE:HG22	3:D:1177:ILE:HD12	1.42	0.96
2:I:548:ARG:NH2	2:I:568:ASN:HA	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:885:VAL:O	3:J:1258:ARG:NH1	1.98	0.96
3:D:865:HIS:CE1	3:D:867:GLN:HB2	1.99	0.96
2:I:1253:LEU:HA	5:L:525:ASP:HB2	1.48	0.96
2:C:483:ASP:HB2	2:C:486:THR:CG2	1.96	0.96
5:F:139:GLU:HA	5:F:142:THR:CG2	1.94	0.96
3:D:113:HIS:CE1	3:D:115:TRP:HB2	2.01	0.96
2:I:516:ASP:O	2:I:522:SER:OG	1.82	0.95
3:D:482:ALA:O	3:D:488:ASN:ND2	2.00	0.95
1:B:228:LEU:O	1:B:230:ALA:N	1.99	0.95
1:B:284:ARG:HA	1:B:284:ARG:HH11	0.81	0.95
2:I:407:ARG:NE	2:I:407:ARG:HA	1.77	0.95
2:C:756:TYR:HD1	2:C:756:TYR:H	1.12	0.95
3:D:805:GLN:O	3:D:807:LEU:N	1.99	0.95
5:F:423:ARG:HB3	5:F:425:TYR:CD1	2.02	0.95
4:K:39:VAL:HG22	4:K:40:PRO:HD2	1.49	0.95
2:C:1284:ALA:HB2	3:D:1361:THR:HB	1.46	0.95
3:D:850:LYS:CG	3:D:857:LEU:HD11	1.97	0.95
1:B:107:ILE:HG12	1:B:135:ASP:HA	1.45	0.95
2:C:722:GLY:HA2	2:C:737:ASN:OD1	1.67	0.95
5:F:562:ARG:HD3	5:F:573:LEU:HG	1.48	0.95
2:C:1217:THR:OG1	2:C:1219:GLU:HG2	1.65	0.95
1:G:189:ALA:HA	1:G:199:ASP:HA	1.46	0.95
3:D:1372:ARG:NH2	3:J:854:ALA:HB3	1.81	0.95
3:D:252:LEU:CD2	3:D:262:THR:HB	1.97	0.94
2:I:26:TYR:CE2	2:I:28:LEU:HB2	2.01	0.94
3:D:120:LEU:HB3	3:D:121:PRO:HD3	1.47	0.94
1:B:182:ARG:NH1	3:D:581:MET:SD	2.40	0.94
3:D:867:GLN:H	3:D:867:GLN:HE21	1.01	0.94
2:I:1142:ARG:HH12	2:I:1165:SER:HA	1.30	0.94
5:L:448:ARG:HD3	5:L:450:ILE:HG13	1.49	0.94
3:J:369:PRO:HB3	3:J:444:GLY:O	1.68	0.94
1:A:187:VAL:HG12	1:A:201:LEU:HD13	1.48	0.94
3:D:810:THR:CG2	3:D:893:GLY:HA3	1.98	0.94
2:I:452:ARG:HH11	2:I:452:ARG:HG3	1.30	0.94
2:C:1293:VAL:HG11	2:C:1304:MET:HB2	1.50	0.94
2:I:1101:LEU:O	3:J:731:ARG:HD3	1.66	0.94
3:J:426:ALA:HB3	3:J:427:PRO:HD3	1.48	0.94
3:J:507:VAL:HG21	3:J:598:LYS:HB2	1.49	0.94
3:D:1167:LYS:HZ3	3:D:1170:LYS:HB2	1.30	0.94
3:D:205:LEU:HA	3:D:217:LEU:HD21	1.50	0.94
2:I:810:TYR:HE2	3:J:359:PRO:HD2	1.22	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:394:TYR:CD2	5:F:439:ILE:HD11	2.03	0.94
3:D:156:ARG:HH12	3:D:157:GLN:HE21	0.98	0.93
2:I:98:VAL:HG21	2:I:124:MET:CE	1.97	0.93
2:C:959:ASP:O	2:C:963:GLU:HG2	1.69	0.93
3:J:1239:ASP:O	3:J:1243:LEU:HB2	1.67	0.93
5:F:290:LEU:HB3	5:F:333:VAL:HG21	1.49	0.93
5:F:562:ARG:CZ	5:F:573:LEU:HB3	1.98	0.93
1:H:118:ASP:CB	1:H:121:VAL:HB	1.97	0.93
1:G:218:ARG:HD3	1:H:233:ASP:H	1.34	0.93
2:C:119:GLU:CB	2:C:489:PRO:HD2	1.99	0.93
3:J:647:PRO:CG	3:J:697:MET:HB3	1.98	0.93
5:L:132:CYS:SG	5:L:257:LYS:NZ	2.41	0.93
5:F:474:MET:O	5:F:476:ARG:N	2.02	0.93
3:D:520:ALA:HB3	3:D:546:ALA:HB2	1.51	0.93
2:C:810:TYR:CE1	2:C:1078:LYS:HD2	2.04	0.93
5:F:346:GLN:NE2	5:F:350:GLU:OE2	2.02	0.93
2:I:551:HIS:H	2:I:554:HIS:CD2	1.87	0.92
3:J:190:LYS:HD3	3:J:235:GLU:HG2	1.49	0.92
2:I:1160:ASP:HB2	2:I:1162:SER:N	1.82	0.92
2:I:1282:GLY:O	2:I:1284:ALA:N	2.01	0.92
2:C:557:ARG:HH21	2:C:608:ALA:HA	1.34	0.92
3:D:867:GLN:HE21	3:D:867:GLN:N	1.68	0.92
5:L:471:LEU:HD21	5:L:478:PRO:HD3	1.51	0.92
2:C:590:PRO:HB2	2:C:655:VAL:HG21	1.51	0.92
3:D:48:THR:O	3:D:50:LYS:N	2.02	0.92
1:G:224:LEU:HD21	1:H:224:LEU:CD2	1.98	0.92
2:I:208:ILE:HG23	2:I:362:ALA:HB1	1.51	0.92
3:J:788:LEU:HG	3:J:789:LYS:N	1.84	0.92
2:C:1326:LEU:HD21	8:D:2004:4C4:H15	1.52	0.92
1:B:76:GLU:OE2	1:B:132:HIS:N	2.03	0.92
3:D:506:VAL:HG23	3:D:628:GLY:HA3	1.51	0.92
2:I:746:ALA:HB2	2:I:974:ARG:HE	1.34	0.92
5:L:544:THR:O	5:L:547:VAL:N	2.03	0.92
3:J:385:LEU:HD21	3:J:411:ILE:HG13	1.50	0.92
2:C:551:HIS:H	2:C:554:HIS:CD2	1.87	0.91
1:H:118:ASP:HB2	1:H:121:VAL:CB	1.99	0.91
2:I:453:ILE:HD11	2:I:530:ILE:HD13	1.52	0.91
2:C:582:ASN:HB3	2:C:585:GLY:H	1.35	0.91
3:D:848:VAL:HG12	3:D:858:VAL:H	1.34	0.91
3:J:1280:VAL:HG11	3:J:1304:ARG:NH2	1.84	0.91
2:C:1268:GLN:NE2	3:D:352:ARG:HD3	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:936:ARG:NH2	2:I:1046:VAL:O	2.04	0.91
3:J:232:ASN:HA	3:J:236:TRP:HZ3	1.34	0.91
3:D:424:ASN:HB2	3:D:434:ILE:HG12	1.50	0.91
2:I:324:LYS:O	2:I:327:GLN:NE2	2.02	0.91
1:A:152:TYR:HE1	2:C:824:GLN:HA	1.33	0.91
2:C:243:PRO:HB2	2:C:278:GLU:CG	2.00	0.91
3:D:97:VAL:HG11	3:D:101:ARG:CZ	2.01	0.91
2:C:1342:GLU:HA	3:D:17:PHE:HA	1.52	0.91
2:C:90:VAL:HG12	2:C:91:THR:H	1.36	0.91
5:F:454:VAL:O	5:F:457:ILE:N	2.04	0.91
3:D:260:PHE:HB2	5:F:504:PRO:CG	2.01	0.91
3:D:425:ARG:HG2	3:D:426:ALA:H	1.35	0.91
3:D:70:CYS:SG	3:D:73:GLY:N	2.43	0.91
3:J:741:ALA:O	3:J:762:ASN:ND2	2.03	0.91
3:D:1282:TYR:O	3:D:1285:VAL:HG22	1.71	0.91
3:D:205:LEU:HD23	3:D:217:LEU:HG	1.49	0.91
5:F:240:ARG:HD3	5:F:244:THR:HB	1.53	0.91
1:B:9:LEU:CB	1:B:32:GLU:HG3	2.00	0.91
2:C:1136:GLN:O	2:C:1140:LYS:HG3	1.69	0.91
2:C:344:GLY:HA3	2:C:346:TYR:CE2	2.05	0.91
3:D:527:LEU:CD2	3:D:536:LEU:HD23	2.00	0.91
1:G:100:LEU:HD23	1:G:115:ILE:HG21	1.49	0.91
5:L:316:PHE:HZ	5:L:334:SER:HA	1.35	0.91
2:C:1297:ASP:OD1	2:C:1300:GLY:N	2.02	0.90
2:C:302:ILE:O	2:C:330:HIS:NE2	2.03	0.90
2:C:324:LYS:O	2:C:327:GLN:NE2	2.04	0.90
2:C:519:ASN:ND2	2:C:689:ALA:O	2.04	0.90
3:J:113:HIS:CE1	3:J:115:TRP:HB2	2.07	0.90
3:D:394:ILE:HD11	5:F:536:THR:HG22	1.53	0.90
1:A:152:TYR:HE2	1:A:154:PRO:HB3	1.36	0.90
3:J:826:ILE:HA	3:J:831:VAL:HA	1.53	0.90
1:A:100:LEU:HD23	1:A:115:ILE:HG21	1.53	0.90
3:D:842:ARG:HB3	3:D:882:VAL:HG11	1.54	0.90
1:G:12:ARG:H	1:G:30:PRO:HD2	1.35	0.90
2:C:1280:ALA:HB3	3:D:431:ARG:HB3	1.53	0.90
3:D:79:LYS:HG3	3:D:80:HIS:ND1	1.87	0.90
3:D:849:LEU:H	3:D:849:LEU:HD22	1.35	0.90
2:C:901:LEU:HA	5:F:563:PHE:CE2	2.06	0.90
3:J:220:ARG:O	3:J:224:LEU:N	2.05	0.90
2:C:414:ILE:HG13	2:C:415:GLU:HG2	1.50	0.90
2:C:148:GLN:NE2	2:C:533:LEU:O	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:514:THR:CB	3:D:596:LEU:HD23	2.01	0.90
2:I:944:ARG:HG3	2:I:948:ILE:HD12	1.53	0.90
3:J:810:THR:HG21	3:J:893:GLY:HA3	1.52	0.90
2:C:435:ILE:O	2:C:438:GLY:N	2.05	0.90
2:C:726:TYR:CE2	2:C:728:ASP:HB2	2.07	0.90
2:I:1192:GLU:HA	2:I:1195:ILE:HD12	1.53	0.90
3:J:842:ARG:HD3	3:J:882:VAL:HG11	1.51	0.90
2:C:1255:THR:O	2:C:1257:GLN:N	2.04	0.90
2:C:927:THR:HG22	2:C:928:VAL:O	1.72	0.90
3:D:245:LEU:HG	3:D:246:PRO:HD2	1.54	0.90
2:I:1260:GLY:HA3	2:I:1265:PHE:HA	1.54	0.89
2:I:245:ARG:HG2	2:I:337:PHE:CE2	2.07	0.89
2:I:798:GLN:HB2	2:I:828:PHE:CE1	2.06	0.89
3:J:1234:VAL:HA	3:J:1237:VAL:HG12	1.52	0.89
2:C:1191:LYS:HD3	2:C:1193:ALA:H	1.37	0.89
4:E:10:VAL:HG22	4:E:19:LEU:HD23	1.55	0.89
1:B:102:LEU:O	1:B:141:SER:HA	1.72	0.89
5:F:128:ASN:HA	5:F:131:GLN:HB2	1.52	0.89
2:I:519:ASN:HD21	2:I:796:LEU:HD23	1.35	0.89
3:D:362:ARG:H	3:D:365:GLN:HE21	1.16	0.89
3:D:762:ASN:ND2	3:D:765:GLU:OE2	2.05	0.89
2:I:1077:SER:HB3	3:J:357:VAL:HG23	1.54	0.89
3:J:366:CYS:HB3	3:J:437:PHE:CD1	2.06	0.89
5:L:540:LEU:CD1	5:L:607:LEU:HG	2.02	0.89
3:D:119:SER:OG	3:D:1333:THR:HG21	1.73	0.89
2:I:685:MET:HA	2:I:688:GLN:HE21	1.36	0.89
3:J:850:LYS:HB3	3:J:851:PRO:HD2	1.50	0.89
2:C:713:GLY:O	2:C:715:THR:N	2.04	0.89
3:D:1316:THR:HG22	3:D:1318:SER:H	1.34	0.89
2:I:1196:LYS:HD2	2:I:1206:THR:HG23	1.54	0.89
3:D:1167:LYS:NZ	3:D:1170:LYS:HB2	1.87	0.89
5:F:215:GLU:HA	5:F:218:ARG:HD3	1.51	0.89
2:I:146:VAL:HG12	2:I:529:ARG:HB3	1.52	0.89
3:J:425:ARG:HG2	3:J:426:ALA:H	1.37	0.89
3:J:615:LYS:NZ	4:K:7:GLN:HG2	1.85	0.89
1:A:44:ARG:HB2	1:A:183:ILE:CG2	2.01	0.89
5:F:135:ALA:HA	5:F:256:PHE:CD2	2.08	0.89
2:C:1120:ALA:HB2	2:C:1199:LEU:HD23	1.55	0.89
5:F:585:GLU:HA	5:F:588:ARG:HG3	1.55	0.89
3:J:514:THR:HG21	3:J:596:LEU:HB2	1.54	0.89
2:C:296:VAL:HB	2:C:336:LEU:HD12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:314:ASN:OD1	2:I:348:SER:OG	1.90	0.89
3:D:156:ARG:NH1	3:D:157:GLN:HE21	1.71	0.88
3:D:609:TYR:HB2	3:D:617:THR:HG21	1.55	0.88
2:I:1238:LEU:H	2:I:1238:LEU:HD12	1.37	0.88
3:J:325:LYS:CE	3:J:330:MET:HG2	2.03	0.88
2:I:5:TYR:O	2:I:8:LYS:HG2	1.72	0.88
4:K:35:LYS:NZ	4:K:71:GLU:OE2	2.05	0.88
2:C:1293:VAL:HG13	2:C:1301:ARG:HA	1.54	0.88
3:J:931:THR:HB	3:J:1137:GLY:CA	2.03	0.88
3:J:479:GLU:HG2	4:K:20:VAL:HG11	1.52	0.88
3:D:114:ILE:HD12	3:D:304:ASP:HB3	1.56	0.88
5:F:572:THR:CG2	5:F:575:GLU:HB3	2.02	0.88
2:C:496:LYS:NZ	2:C:497:PRO:HG3	1.89	0.88
3:D:77:ARG:HG3	3:D:79:LYS:H	1.37	0.88
1:H:32:GLU:HB2	1:H:35:PHE:CD2	2.06	0.88
2:I:810:TYR:HE1	2:I:1078:LYS:HZ3	1.17	0.88
3:J:1157:ALA:CB	3:J:1206:ARG:HA	2.02	0.88
3:J:488:ASN:HD21	4:K:6:VAL:HG11	1.37	0.88
3:J:857:LEU:HD12	3:J:858:VAL:H	1.38	0.88
2:C:243:PRO:HB2	2:C:278:GLU:HG3	1.53	0.88
2:C:303:ASP:HB3	2:C:306:THR:CG2	2.04	0.88
3:D:870:ASP:O	3:D:874:GLU:HG3	1.74	0.88
1:H:153:VAL:O	1:H:175:ALA:N	2.06	0.88
2:I:1284:ALA:HB1	3:J:1356:LEU:HD21	1.52	0.88
2:I:516:ASP:HA	2:I:761:GLN:NE2	1.87	0.88
2:C:818:VAL:CG2	2:C:1096:ILE:HG23	2.04	0.88
2:C:1312:ASN:HD21	2:C:1314:GLN:HE21	0.93	0.88
2:C:724:VAL:HG11	2:C:727:VAL:CG2	2.04	0.88
3:D:245:LEU:HD21	3:D:249:LEU:HD12	1.56	0.88
3:J:1371:ARG:HH22	3:J:1372:ARG:HH21	1.20	0.88
3:J:481:ARG:HA	3:J:485:MET:HB2	1.54	0.88
3:D:854:ALA:CB	3:J:1372:ARG:HG3	2.03	0.87
3:D:896:ALA:HB1	3:D:908:ILE:HD11	1.53	0.87
5:L:484:ALA:HB1	5:L:490:PRO:O	1.73	0.87
1:A:45:ARG:HG2	1:B:38:THR:HB	1.56	0.87
3:D:382:TYR:HE1	3:D:401:VAL:HG21	1.39	0.87
1:G:153:VAL:HB	1:G:175:ALA:HB3	1.56	0.87
2:I:990:ASP:HA	2:I:997:TRP:CZ2	2.08	0.87
3:J:491:LEU:HB2	3:J:904:ALA:HA	1.55	0.87
3:D:198:CYS:O	3:D:202:ARG:N	2.06	0.87
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:537:TYR:O	3:J:540:GLY:N	2.08	0.87
1:A:61:ILE:HD11	1:A:142:MET:HE1	1.56	0.87
2:C:145:ILE:HD11	2:C:512:SER:HB2	1.57	0.87
3:D:16:GLU:O	3:D:1369:ARG:NH2	2.07	0.87
3:D:835:LEU:O	3:D:839:VAL:HG23	1.73	0.87
3:J:416:ILE:HD13	3:J:441:LEU:HD21	1.54	0.87
3:J:536:LEU:HD13	3:J:541:LEU:HB2	1.56	0.87
3:J:709:ARG:O	3:J:711:GLY:N	2.07	0.87
2:C:1196:LYS:HD2	2:C:1206:THR:CG2	2.03	0.87
3:D:108:ALA:CB	3:D:279:LEU:HD22	2.04	0.87
3:D:776:THR:O	3:D:778:GLY:N	2.06	0.87
5:F:484:ALA:HB2	5:F:494:ILE:HD12	1.55	0.87
2:I:698:PRO:HB3	2:I:1231:TYR:CG	2.09	0.87
3:J:707:ILE:HG22	3:J:708:ASN:H	1.37	0.87
3:J:737:ILE:HA	3:J:740:LEU:HD22	1.56	0.87
2:C:1192:GLU:HA	2:C:1195:ILE:HD12	1.56	0.87
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.56	0.87
1:B:103:ASN:HA	1:B:141:SER:HB2	1.54	0.87
3:D:667:GLN:HA	3:D:672:LEU:HD13	1.54	0.87
3:J:1157:ALA:HB3	3:J:1206:ARG:HA	1.56	0.87
5:L:585:GLU:HA	5:L:588:ARG:HD2	1.56	0.87
2:C:138:ILE:O	2:C:139:ASN:ND2	2.07	0.87
2:C:981:ALA:O	2:C:1007:LYS:NZ	2.07	0.87
4:K:53:GLU:HB3	4:K:59:ILE:HG13	1.56	0.87
2:C:157:PHE:CE2	2:C:431:LYS:HG2	2.10	0.87
2:I:1223:ARG:NH1	2:I:1223:ARG:HB3	1.89	0.87
2:I:296:VAL:HB	2:I:336:LEU:HD12	1.57	0.87
2:I:496:LYS:O	2:I:500:ALA:N	2.08	0.87
1:A:71:LYS:HB3	1:A:74:VAL:HG11	1.57	0.86
3:D:1322:ALA:HA	3:D:1325:PHE:CD1	2.09	0.86
1:G:81:ILE:HA	1:G:84:ASN:HD22	1.40	0.86
3:J:1234:VAL:HA	3:J:1237:VAL:CG1	2.05	0.86
3:J:573:THR:CG2	3:J:576:ARG:HG3	2.03	0.86
3:D:1265:THR:O	3:D:1303:SER:N	2.07	0.86
1:G:191:ARG:HH22	1:G:197:ASP:HA	1.37	0.86
2:I:1160:ASP:CB	2:I:1161:LEU:HA	2.05	0.86
2:I:1222:GLU:OE2	3:J:537:TYR:OH	1.93	0.86
3:J:54:ASP:OD1	3:J:60:ARG:NH1	2.08	0.86
1:B:88:LEU:CD1	1:B:89:ALA:H	1.89	0.86
3:D:98:ARG:O	3:D:248:ASP:HB2	1.76	0.86
5:F:279:ARG:NH2	5:F:347:ILE:HG12	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:394:ILE:HA	3:J:397:ALA:HB3	1.56	0.86
3:J:517:CYS:H	3:J:545:HIS:HB2	1.39	0.86
1:B:89:ALA:HB1	1:B:124:VAL:HB	1.56	0.86
2:C:1142:ARG:HH22	2:C:1165:SER:CB	1.88	0.86
2:C:411:ARG:NH2	2:C:427:ASP:OD2	2.07	0.86
2:C:870:ILE:CG2	2:C:944:ARG:HD3	2.06	0.86
3:D:1329:THR:O	3:D:1333:THR:OG1	1.93	0.86
3:D:128:LEU:HD21	3:D:189:LEU:CD2	2.05	0.86
3:D:35:PHE:CE1	3:D:101:ARG:HD3	2.10	0.86
2:I:95:PRO:HA	2:I:126:GLU:HG2	1.55	0.86
2:C:1030:GLU:OE2	2:C:1034:ARG:NH2	2.09	0.86
3:D:857:LEU:HD21	3:D:875:ASN:ND2	1.90	0.86
2:I:162:GLY:HA2	2:I:168:GLY:HA2	1.55	0.86
2:I:402:ARG:NH2	2:I:424:ASP:OD2	2.08	0.86
2:I:1329:GLU:HA	3:J:245:LEU:CD1	2.06	0.86
3:J:63:GLY:O	3:J:98:ARG:HD2	1.75	0.86
2:C:670:PHE:CE2	2:C:1113:LEU:HB3	2.10	0.86
3:D:145:VAL:HG23	3:D:159:ILE:HG22	1.57	0.86
1:H:91:ARG:HG3	1:H:122:GLU:HB3	1.55	0.86
3:J:120:LEU:HB3	3:J:121:PRO:CD	2.03	0.86
3:D:56:LEU:HD12	3:D:56:LEU:H	1.39	0.86
3:D:580:TRP:CZ3	3:D:589:TYR:HA	2.10	0.86
3:D:42:GLU:HG3	5:F:451:ARG:HG3	1.57	0.86
3:J:227:PHE:CE2	3:J:232:ASN:HB2	2.10	0.86
3:J:746:LEU:HG	3:J:758:PRO:CB	2.05	0.86
2:C:1254:VAL:O	3:D:99:ARG:NH2	2.08	0.86
2:I:516:ASP:HA	2:I:761:GLN:HE22	1.37	0.86
2:I:404:LYS:HD3	2:I:586:PHE:HZ	1.39	0.86
3:D:161:THR:N	3:D:164:GLN:OE1	2.09	0.86
3:D:591:ILE:HG23	3:D:592:VAL:HG13	1.56	0.86
3:D:810:THR:HG21	3:D:893:GLY:HA3	1.54	0.86
5:F:270:VAL:HG12	5:F:274:ARG:NH2	1.90	0.86
1:B:69:SER:H	1:B:78:ILE:HD12	1.39	0.85
2:C:1124:ILE:HG21	2:C:1180:MET:CE	2.06	0.85
2:C:1146:GLN:NE2	2:C:1146:GLN:O	2.07	0.85
3:D:232:ASN:ND2	3:D:1337:VAL:O	2.08	0.85
3:D:356:THR:OG1	3:D:357:VAL:N	2.07	0.85
4:E:36:ASP:HB2	4:E:37:PRO:CD	2.07	0.85
1:A:191:ARG:HH12	1:A:198:LEU:H	1.23	0.85
1:A:61:ILE:HG22	1:A:64:VAL:HG22	1.56	0.85
3:J:674:THR:N	3:J:677:GLU:OE1	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1371:ARG:HD2	3:J:856:ILE:HG13	1.58	0.85
3:D:363:LEU:HA	3:D:450:HIS:CD2	2.12	0.85
2:I:1142:ARG:NH1	2:I:1169:VAL:HG21	1.92	0.85
3:D:741:ALA:O	3:D:762:ASN:ND2	2.08	0.85
4:E:80:LEU:O	4:E:84:THR:OG1	1.93	0.85
1:G:12:ARG:HG3	1:H:230:ALA:HB1	1.59	0.85
1:G:191:ARG:NH2	1:G:197:ASP:HA	1.90	0.85
2:I:1142:ARG:HD3	2:I:1161:LEU:HD13	1.59	0.85
2:I:590:PRO:HB2	2:I:655:VAL:HG21	1.58	0.85
3:D:850:LYS:HB3	3:D:851:PRO:CD	2.07	0.85
3:D:43:THR:OG1	5:F:449:THR:O	1.94	0.85
1:H:63:GLY:HA3	1:H:71:LYS:HE3	1.55	0.85
2:I:563:THR:HG21	2:I:570:GLY:H	1.41	0.85
3:J:537:TYR:HE2	3:J:631:TYR:HE1	1.21	0.85
1:A:13:LEU:HD12	1:A:16:ILE:HD11	1.58	0.85
2:C:810:TYR:CD2	3:D:359:PRO:HD2	2.12	0.85
3:D:810:THR:O	3:D:911:LYS:HE2	1.77	0.85
4:E:36:ASP:HB2	4:E:37:PRO:HD2	1.58	0.85
5:F:561:MET:HG2	5:F:571:TYR:CB	2.07	0.85
1:G:32:GLU:OE2	1:H:150:ARG:NH1	2.10	0.85
3:J:931:THR:HB	3:J:1137:GLY:HA3	1.58	0.85
3:J:515:ARG:NH2	3:J:717:VAL:O	2.10	0.85
2:C:1062:PRO:HA	2:C:1076:ILE:CD1	2.06	0.85
3:D:1156:LEU:HA	3:D:1210:ILE:HG12	1.59	0.85
3:D:615:LYS:HE2	3:D:616:PRO:HD3	1.58	0.85
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.50	0.85
3:J:645:VAL:HB	3:J:701:LEU:HD23	1.58	0.85
2:C:525:THR:HG21	2:C:687:ARG:HD2	1.56	0.85
3:D:79:LYS:HE3	3:D:80:HIS:HA	1.58	0.85
2:C:854:ILE:CG2	2:C:855:PRO:HD2	2.07	0.85
3:D:611:ILE:HG22	3:D:612:LEU:HD12	1.57	0.85
5:L:454:VAL:O	5:L:457:ILE:N	2.10	0.85
3:D:205:LEU:CA	3:D:217:LEU:HD21	2.07	0.84
3:D:848:VAL:CG1	3:D:858:VAL:HG13	2.07	0.84
5:F:423:ARG:HB3	5:F:425:TYR:HD1	1.42	0.84
3:J:252:LEU:HD21	3:J:262:THR:HB	1.58	0.84
3:J:317:THR:CG2	3:J:320:ASN:HB3	2.06	0.84
2:I:1268:GLN:NE2	3:J:352:ARG:HD3	1.91	0.84
2:C:1124:ILE:HG21	2:C:1180:MET:HE2	1.57	0.84
2:I:1266:GLY:HA3	3:J:346:ARG:HH11	1.40	0.84
5:L:512:GLY:O	5:L:514:ASP:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:ILE:HD11	1:A:136:GLU:H	1.42	0.84
2:C:697:LYS:HA	2:C:795:ALA:HB2	1.58	0.84
2:I:447:HIS:CE1	2:I:553:THR:HG21	2.10	0.84
3:J:1341:ARG:NH1	3:J:1343:GLU:OE2	2.11	0.84
3:J:706:VAL:HG12	3:J:715:LYS:CB	2.08	0.84
2:C:339:ASN:OD1	2:C:342:ASP:N	2.10	0.84
3:D:115:TRP:O	3:D:119:SER:OG	1.95	0.84
2:I:289:VAL:HG13	2:I:319:LEU:HD11	1.59	0.84
5:L:449:THR:OG1	5:L:503:GLU:O	1.95	0.84
3:D:29:MET:O	3:D:32:SER:OG	1.95	0.84
3:J:265:LEU:HD13	3:J:327:LEU:HD21	1.59	0.84
3:J:527:LEU:H	3:J:550:VAL:HG12	1.40	0.84
5:L:506:SER:O	5:L:509:THR:OG1	1.95	0.84
2:C:607:SER:HB3	2:C:610:GLU:CG	2.07	0.84
3:D:1149:ARG:NE	3:D:1153:PRO:HG2	1.93	0.84
3:D:895:CYS:SG	3:D:898:CYS:N	2.50	0.84
5:F:530:LEU:HB2	5:F:533:ASP:HB2	1.60	0.84
1:G:161:SER:O	1:G:163:GLU:N	2.10	0.84
1:G:91:ARG:NH1	1:G:212:ASP:OD1	2.10	0.84
2:I:670:PHE:CD1	2:I:1184:THR:HG21	2.12	0.84
3:J:1262:ARG:HH22	3:J:1312:ALA:HB1	1.43	0.84
2:C:209:ILE:HA	2:C:212:ALA:HB3	1.58	0.84
2:C:810:TYR:CE2	3:D:359:PRO:HD2	2.12	0.84
3:D:647:PRO:HG3	3:D:697:MET:CB	2.08	0.84
1:B:301:THR:HA	1:B:304:LYS:CE	2.08	0.84
2:C:201:ARG:HG2	2:C:201:ARG:HH11	1.40	0.84
3:D:1169:THR:HG23	3:D:1192:LYS:HD3	1.56	0.84
3:D:18:ASP:HB2	3:D:1373:ARG:NH2	1.93	0.84
5:F:366:SER:O	5:F:369:GLU:HB2	1.78	0.84
2:I:590:PRO:HG3	2:I:605:TYR:CE1	2.12	0.84
3:J:660:GLU:O	3:J:663:GLU:HB2	1.77	0.84
3:J:910:ASN:HB3	4:K:15:ASN:OD1	1.76	0.84
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.59	0.84
2:I:417:SER:OG	2:I:419:ILE:O	1.95	0.84
3:J:707:ILE:N	3:J:714:GLU:O	2.09	0.84
5:L:121:LYS:HG2	5:L:421:TYR:CZ	2.13	0.84
2:C:617:ALA:HB3	2:C:653:MET:CB	2.06	0.84
3:D:1322:ALA:HA	3:D:1325:PHE:CE1	2.13	0.84
3:D:42:GLU:HG3	5:F:451:ARG:CG	2.06	0.84
2:I:98:VAL:HG21	2:I:124:MET:HE3	1.58	0.84
1:B:292:THR:HB	1:B:295:LEU:HB2	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:515:ARG:NH2	3:D:717:VAL:O	2.11	0.83
1:G:167:PRO:HB2	1:G:170:ARG:HG3	1.58	0.83
2:I:985:GLU:HB3	2:I:988:LYS:HB2	1.60	0.83
3:J:403:ARG:HG3	3:J:403:ARG:HH11	1.42	0.83
5:L:129:GLN:NE2	5:L:364:ARG:O	2.10	0.83
2:C:815:SER:HB2	2:C:1077:SER:OG	1.78	0.83
2:C:1214:ASP:OD1	2:C:1216:ARG:N	2.11	0.83
2:I:390:PHE:HA	2:I:419:ILE:HG21	1.61	0.83
2:I:548:ARG:HH21	2:I:568:ASN:HA	1.38	0.83
1:B:159:ILE:HG23	1:B:160:HIS:H	1.39	0.83
2:C:202:ARG:NH2	2:C:368:ARG:HH22	1.77	0.83
2:I:1297:ASP:OD1	2:I:1300:GLY:N	2.12	0.83
1:B:9:LEU:HB2	1:B:32:GLU:HG3	1.58	0.83
3:D:520:ALA:HB3	3:D:546:ALA:CB	2.08	0.83
3:D:865:HIS:CE1	3:D:868:TRP:H	1.96	0.83
5:F:577:GLY:O	5:F:579:GLN:N	2.12	0.83
2:I:818:VAL:HG23	2:I:1096:ILE:HG23	1.58	0.83
2:C:1029:LEU:HD23	2:C:1030:GLU:N	1.94	0.83
2:C:607:SER:CB	2:C:610:GLU:HG3	2.08	0.83
2:C:892:GLU:HG3	2:C:892:GLU:O	1.79	0.83
3:D:1163:VAL:CG2	3:D:1175:LEU:HD21	2.07	0.83
1:H:79:LEU:HD23	1:H:79:LEU:H	1.43	0.83
2:I:1155:VAL:HG23	2:I:1157:GLN:H	1.41	0.83
1:A:134:THR:OG1	2:C:773:LEU:HD11	1.78	0.83
1:B:88:LEU:HD12	1:B:89:ALA:N	1.93	0.83
5:F:231:THR:CG2	5:F:249:ILE:HG12	2.08	0.83
3:J:488:ASN:O	4:K:16:ARG:NH2	2.11	0.83
1:A:71:LYS:HB3	1:A:74:VAL:CG1	2.07	0.83
2:C:315:MET:HA	2:C:352:ARG:HH12	1.43	0.83
2:C:546:GLU:OE1	2:C:546:GLU:N	2.10	0.83
2:C:744:GLY:O	2:C:746:ALA:N	2.10	0.83
3:D:62:PHE:CD2	3:D:247:PRO:HG2	2.14	0.83
5:F:390:ILE:HD12	5:F:436:ARG:HG3	1.60	0.83
2:I:371:ARG:HB3	2:I:374:GLU:OE2	1.78	0.83
3:J:115:TRP:O	3:J:119:SER:OG	1.94	0.83
3:J:148:GLU:H	3:J:156:ARG:HG3	1.42	0.83
2:I:1222:GLU:O	3:J:636:GLY:HA3	1.78	0.83
1:A:41:ASN:ND2	2:C:1216:ARG:O	2.11	0.83
3:D:289:ASP:HA	3:D:292:VAL:HG13	1.57	0.83
5:F:231:THR:HG23	5:F:249:ILE:HG12	1.61	0.83
1:G:76:GLU:OE2	1:G:76:GLU:N	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:483:ASP:HB2	2:I:486:THR:HG21	1.60	0.83
2:C:1289:GLU:OE2	3:D:473:THR:HG22	1.77	0.83
2:C:871:VAL:O	2:C:944:ARG:NH1	2.12	0.83
2:I:280:ASP:HB3	2:I:282:VAL:CG2	2.06	0.83
2:I:119:GLU:HG3	2:I:489:PRO:HD2	1.59	0.83
3:J:189:LEU:HB3	3:J:234:PRO:HB2	1.60	0.83
3:J:203:GLU:O	3:J:207:GLU:N	2.12	0.83
1:B:154:PRO:HD2	1:B:157:THR:HG23	1.58	0.83
2:C:133:ASN:O	2:C:527:LYS:NZ	2.10	0.83
2:C:493:ILE:O	5:F:472:GLN:NE2	2.11	0.83
3:D:625:MET:O	3:D:628:GLY:N	2.12	0.83
3:J:289:ASP:HA	3:J:292:VAL:HG22	1.61	0.83
3:J:304:ASP:OD2	3:J:312:ARG:NH2	2.11	0.83
2:C:706:ARG:HG3	2:C:793:GLU:HG2	1.60	0.82
5:F:436:ARG:O	5:F:440:THR:HG22	1.77	0.82
2:I:138:ILE:O	2:I:139:ASN:ND2	2.11	0.82
1:B:62:ASP:N	1:B:142:MET:SD	2.51	0.82
3:D:128:LEU:HD21	3:D:189:LEU:HD23	1.62	0.82
3:D:321:LYS:HG2	3:D:322:ARG:N	1.91	0.82
3:D:682:VAL:O	3:D:685:ILE:HG12	1.80	0.82
5:F:128:ASN:O	5:F:132:CYS:N	2.12	0.82
2:I:115:LYS:HD3	2:I:116:ASP:H	1.43	0.82
2:I:726:TYR:CE2	2:I:728:ASP:HB2	2.14	0.82
3:J:132:LEU:HD11	3:J:136:GLU:HG3	1.61	0.82
1:A:92:VAL:HG12	1:A:121:VAL:HG22	1.62	0.82
1:A:13:LEU:CD1	1:A:16:ILE:HD11	2.09	0.82
2:C:1293:VAL:HG22	2:C:1300:GLY:HA3	1.61	0.82
3:D:1346:GLY:HA3	3:D:1349:GLU:OE2	1.79	0.82
3:D:282:LEU:HD21	5:F:410:ILE:HD11	1.60	0.82
2:I:1160:ASP:CG	2:I:1161:LEU:HA	2.00	0.82
2:I:617:ALA:HA	2:I:636:CYS:SG	2.19	0.82
2:I:703:GLY:N	2:I:705:GLU:OE2	2.10	0.82
3:J:146:VAL:HB	3:J:156:ARG:O	1.79	0.82
3:J:482:ALA:O	3:J:488:ASN:ND2	2.12	0.82
3:J:520:ALA:HB1	3:J:543:SER:CB	2.07	0.82
2:C:617:ALA:N	2:C:652:TYR:O	2.12	0.82
2:C:732:ILE:HG21	2:C:783:LEU:HD12	1.59	0.82
2:I:815:SER:HB2	2:I:1077:SER:OG	1.79	0.82
1:B:310:ARG:HA	1:B:310:ARG:NE	1.94	0.82
5:F:530:LEU:CB	5:F:533:ASP:HB2	2.10	0.82
1:G:14:VAL:HG13	1:G:27:THR:HB	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:10:ARG:HD3	2:I:1181:PRO:HG2	1.60	0.82
2:I:407:ARG:HE	2:I:407:ARG:HA	1.39	0.82
2:I:490:GLN:HA	2:I:493:ILE:HG23	1.62	0.82
2:I:9:LYS:HD3	2:I:1171:ARG:HD3	1.61	0.82
3:J:357:VAL:O	3:J:449:LEU:N	2.11	0.82
5:L:593:LYS:O	5:L:596:ARG:HB2	1.80	0.82
1:A:47:LEU:O	1:A:180:VAL:HG21	1.80	0.82
1:B:289:LEU:HB3	1:B:300:LEU:CD2	2.10	0.82
3:D:1179:PRO:HD2	3:D:1184:ASP:HA	1.62	0.82
3:D:884:SER:OG	3:D:1254:GLU:OE1	1.97	0.82
3:D:825:VAL:HG11	3:D:833:GLU:HB3	1.60	0.82
4:E:79:GLU:O	4:E:83:VAL:HG12	1.79	0.82
5:F:507:MET:O	5:F:519:LEU:HB3	1.79	0.82
1:H:42:ALA:HA	1:H:45:ARG:CG	2.06	0.82
3:J:666:GLU:O	3:J:670:SER:N	2.11	0.82
5:L:215:GLU:HA	5:L:218:ARG:HD3	1.59	0.82
5:L:585:GLU:HA	5:L:588:ARG:CD	2.10	0.82
1:B:283:GLN:O	1:B:284:ARG:HD2	1.80	0.82
3:D:425:ARG:HE	3:D:426:ALA:HB3	1.45	0.82
3:D:588:PRO:HB2	3:D:590:SER:OG	1.79	0.82
5:F:505:ILE:HD12	5:F:506:SER:H	1.44	0.82
2:I:1062:PRO:HA	2:I:1076:ILE:HG22	1.60	0.82
3:J:1284:ARG:HH12	3:J:1288:ALA:HB2	1.42	0.82
3:D:1227:HIS:CD2	3:J:1293:GLU:HG2	2.15	0.82
5:L:139:GLU:O	5:L:141:ILE:N	2.10	0.82
2:C:1142:ARG:NH1	2:C:1165:SER:HA	1.93	0.82
2:I:1108:ASN:OD1	2:I:1111:GLN:NE2	2.11	0.82
2:I:1266:GLY:HA3	3:J:346:ARG:NH1	1.94	0.82
2:I:5:TYR:HD1	2:I:8:LYS:HD3	1.45	0.82
3:J:292:VAL:O	3:J:296:LYS:HG3	1.80	0.82
1:B:102:LEU:CD2	1:B:115:ILE:HA	2.10	0.82
3:D:495:ASN:O	3:D:497:GLU:N	2.13	0.82
4:E:56:GLU:HB2	4:E:58:LEU:HD13	1.62	0.82
5:F:130:VAL:HG22	5:F:365:MET:HA	1.60	0.82
1:G:228:LEU:O	1:G:230:ALA:N	2.12	0.82
2:I:23:ASP:N	2:I:23:ASP:OD1	2.12	0.82
2:C:1122:LYS:HG2	2:C:1229:TYR:CE1	2.14	0.82
3:D:1289:ASN:ND2	3:D:1289:ASN:O	2.11	0.82
3:D:660:GLU:O	3:D:663:GLU:HB2	1.79	0.82
5:F:561:MET:HG2	5:F:571:TYR:HB2	1.60	0.82
2:I:201:ARG:HH11	2:I:201:ARG:CG	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:SER:HA	1:B:158:ARG:N	1.94	0.81
1:B:252:ILE:O	1:B:278:ILE:HD11	1.79	0.81
2:C:840:SER:HB2	2:C:850:ILE:HD11	1.60	0.81
3:D:260:PHE:HB2	5:F:504:PRO:HG2	1.62	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:HG3	2.14	0.81
3:D:883:ARG:NH2	3:D:898:CYS:SG	2.53	0.81
5:F:608:ARG:NH2	5:F:609:SER:HA	1.95	0.81
3:J:128:LEU:HD21	3:J:189:LEU:HD23	1.62	0.81
3:J:1316:THR:HG22	3:J:1318:SER:N	1.95	0.81
3:D:290:ILE:HD12	3:D:290:ILE:H	1.45	0.81
3:D:398:LYS:HG2	3:D:402:GLU:OE2	1.80	0.81
3:D:797:THR:HG22	3:D:924:GLY:HA3	1.61	0.81
5:L:373:ARG:HD2	5:L:377:LYS:HE3	1.62	0.81
2:C:834:GLN:HE21	2:C:1056:VAL:HG21	1.43	0.81
5:F:562:ARG:CD	5:F:573:LEU:HG	2.10	0.81
2:I:538:LEU:H	2:I:538:LEU:HD12	1.44	0.81
2:I:607:SER:OG	2:I:610:GLU:HG3	1.80	0.81
2:I:697:LYS:HA	2:I:795:ALA:HB2	1.60	0.81
2:C:211:ARG:NH1	2:C:217:THR:OG1	2.12	0.81
3:D:60:ARG:HA	3:D:89:GLY:O	1.78	0.81
5:F:348:GLU:HG3	5:F:355:ILE:HG12	1.61	0.81
5:F:437:GLN:HG3	5:F:438:ALA:N	1.93	0.81
1:A:102:LEU:HD23	1:A:115:ILE:HA	1.62	0.81
1:A:50:SER:HB3	1:B:8:PHE:CZ	2.13	0.81
2:C:817:LEU:HD12	2:C:1097:VAL:HB	1.62	0.81
2:C:1308:ILE:HG23	3:D:380:PHE:CE2	2.15	0.81
1:G:195:ARG:CG	1:G:198:LEU:HG	2.10	0.81
2:I:379:GLU:O	2:I:383:SER:OG	1.98	0.81
2:I:819:SER:OG	2:I:821:ARG:HB3	1.80	0.81
1:A:61:ILE:HD11	1:A:142:MET:CE	2.09	0.81
1:B:123:ILE:HG22	1:B:126:PRO:HD3	1.62	0.81
2:C:71:VAL:HB	2:C:99:LYS:HB2	1.62	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:CG	2.63	0.81
5:F:525:ASP:OD1	5:F:526:THR:N	2.13	0.81
1:G:10:LYS:NZ	1:H:229:GLU:OE1	2.14	0.81
1:G:167:PRO:HG2	1:G:170:ARG:HD2	1.61	0.81
2:C:1239:VAL:O	2:C:1242:LYS:N	2.11	0.81
2:I:615:VAL:HG13	2:I:650:VAL:HA	1.61	0.81
2:C:1029:LEU:HD23	2:C:1030:GLU:HA	1.60	0.81
2:C:1106:ARG:O	2:C:1108:ASN:N	2.14	0.81
2:C:483:ASP:CB	2:C:486:THR:HG21	2.02	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1179:PRO:CD	3:D:1184:ASP:HA	2.10	0.81
3:D:1375:ALA:HB1	3:J:853:THR:OG1	1.80	0.81
3:D:171:GLU:HB3	3:D:172:PHE:CD2	2.16	0.81
5:F:587:ILE:HD12	5:F:590:ILE:HB	1.62	0.81
2:I:15:PHE:HE1	2:I:1194:GLU:HB3	1.45	0.81
5:L:124:GLU:O	5:L:128:ASN:ND2	2.13	0.81
2:C:59:ILE:CD1	2:C:475:VAL:HG21	2.11	0.81
3:D:35:PHE:CD1	3:D:101:ARG:HB3	2.16	0.81
3:D:1160:SER:N	3:D:1206:ARG:HB3	1.96	0.81
1:H:153:VAL:CB	1:H:175:ALA:HB3	2.04	0.81
3:J:356:THR:OG1	3:J:357:VAL:N	2.12	0.81
1:A:167:PRO:HG2	1:A:170:ARG:HG3	1.63	0.81
1:B:95:LYS:HD2	1:B:120:ASP:HB3	1.61	0.81
2:C:69:GLN:HE21	2:C:101:ARG:HD2	1.45	0.81
3:D:1280:VAL:HG22	3:D:1284:ARG:HE	1.46	0.81
3:D:362:ARG:O	3:D:365:GLN:HG2	1.79	0.81
2:I:993:PRO:HG2	2:I:996:ARG:CB	2.11	0.81
2:C:234:ASP:OD1	2:C:235:ASN:N	2.12	0.81
2:C:358:ASP:OD1	2:C:361:SER:N	2.14	0.81
3:D:1149:ARG:CZ	3:D:1153:PRO:HG2	2.11	0.81
5:F:487:MET:HB3	5:F:489:MET:HG2	1.61	0.81
2:C:208:ILE:HG23	2:C:362:ALA:HB1	1.63	0.80
3:D:1168:GLU:OE2	3:D:1169:THR:OG1	1.97	0.80
2:I:386:GLU:HA	2:I:390:PHE:HD2	1.46	0.80
2:I:520:PRO:HG3	2:I:714:VAL:HG11	1.63	0.80
1:A:179:PRO:HB3	1:A:208:ASN:ND2	1.97	0.80
1:G:45:ARG:NH2	2:I:1216:ARG:HA	1.96	0.80
2:I:660:VAL:HG22	2:I:661:VAL:HG12	1.61	0.80
2:C:464:PHE:O	2:C:467:GLY:N	2.14	0.80
3:D:1238:GLN:HB3	3:D:1242:ARG:HH21	1.46	0.80
3:D:1359:ALA:O	3:D:1363:TYR:N	2.14	0.80
3:D:709:ARG:O	3:D:711:GLY:N	2.14	0.80
3:D:733:SER:O	3:D:736:GLN:N	2.15	0.80
1:G:88:LEU:HD13	1:G:128:HIS:CD2	2.16	0.80
1:H:42:ALA:CA	1:H:45:ARG:HG3	2.07	0.80
2:I:594:VAL:HG11	2:I:650:VAL:HG23	1.62	0.80
3:J:811:GLU:O	3:J:895:CYS:HA	1.81	0.80
3:D:1234:VAL:HA	3:D:1237:VAL:HG12	1.64	0.80
2:C:1281:TYR:HE1	3:D:484:MET:HA	1.45	0.80
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.64	0.80
2:I:1116:HIS:CE1	3:J:641:ILE:H	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:324:LYS:HG3	5:L:326:TRP:CZ2	2.16	0.80
1:B:92:VAL:O	1:B:148:ARG:NH2	2.15	0.80
3:D:390:LEU:HD22	3:D:407:VAL:HG11	1.62	0.80
3:D:527:LEU:HD21	3:D:536:LEU:HD23	1.63	0.80
2:I:871:VAL:O	2:I:944:ARG:NH1	2.13	0.80
3:J:339:ARG:CB	3:J:340:GLN:HA	2.11	0.80
1:B:154:PRO:HD2	1:B:157:THR:CG2	2.11	0.80
2:C:1068:GLY:HA3	2:C:1072:ASN:HD21	1.47	0.80
2:C:1132:LEU:HD22	2:C:1177:ARG:HH22	1.45	0.80
3:D:514:THR:HG21	3:D:596:LEU:HB2	1.62	0.80
3:D:608:CYS:SG	3:D:617:THR:HA	2.20	0.80
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.52	0.80
5:F:575:GLU:HA	5:F:578:LYS:CD	2.12	0.80
1:G:195:ARG:HD2	1:G:196:THR:H	1.46	0.80
2:I:758:ARG:HB2	2:I:833:ILE:CG2	2.11	0.80
3:J:334:LYS:HA	3:J:1328:THR:HG21	1.62	0.80
3:J:98:ARG:O	3:J:248:ASP:HB2	1.81	0.80
3:D:357:VAL:CG2	3:D:461:PHE:HE1	1.95	0.80
5:F:139:GLU:CA	5:F:142:THR:HG22	2.04	0.80
5:F:234:THR:HB	5:F:245:ALA:CB	2.09	0.80
5:F:484:ALA:O	5:F:487:MET:HB2	1.82	0.80
2:I:234:ASP:OD1	2:I:235:ASN:N	2.15	0.80
5:L:412:LEU:CB	5:L:435:ILE:HD11	2.10	0.80
1:B:196:THR:HG22	1:B:197:ASP:HB3	1.63	0.80
2:C:1029:LEU:HD23	2:C:1030:GLU:CA	2.12	0.80
2:C:1113:LEU:HD11	3:D:641:ILE:HD11	1.64	0.80
1:H:47:LEU:HD13	1:H:180:VAL:HG11	1.62	0.80
1:H:25:LYS:HG3	1:H:204:GLU:HG3	1.63	0.80
2:I:1164:PHE:O	2:I:1166:ASP:N	2.15	0.80
2:I:318:SER:H	2:I:321:LEU:HD12	1.45	0.80
3:J:268:LEU:HD22	3:J:306:LEU:HA	1.62	0.80
4:K:32:VAL:O	4:K:34:GLY:N	2.15	0.80
2:C:621:SER:HB3	2:C:634:VAL:HG21	1.62	0.80
1:G:218:ARG:HH11	1:H:233:ASP:N	1.80	0.80
3:J:520:ALA:CB	3:J:543:SER:HB3	2.10	0.80
1:H:23:HIS:ND1	1:H:206:GLU:HG2	1.95	0.80
2:I:546:GLU:N	2:I:546:GLU:OE1	2.11	0.80
2:I:75:LEU:HD11	2:I:127:ILE:HD11	1.63	0.80
5:L:98:VAL:HB	5:L:402:LEU:HD21	1.64	0.80
1:A:152:TYR:CD1	2:C:824:GLN:HG2	2.17	0.79
1:B:272:ALA:O	1:B:274:ALA:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1305:TYR:HE1	3:D:379:PRO:HG3	1.45	0.79
2:C:59:ILE:HG21	2:C:475:VAL:CG1	2.12	0.79
3:D:1360:GLY:HA2	4:E:17:PHE:CE2	2.17	0.79
5:F:297:MET:CE	5:F:330:LEU:HD21	2.12	0.79
3:J:733:SER:O	3:J:736:GLN:N	2.14	0.79
1:B:101:THR:HA	1:B:142:MET:O	1.83	0.79
1:B:157:THR:O	1:B:159:ILE:N	2.15	0.79
1:B:46:ILE:HG22	1:B:47:LEU:N	1.97	0.79
3:D:518:VAL:HG11	3:D:707:ILE:HD13	1.64	0.79
5:F:348:GLU:CG	5:F:355:ILE:HG12	2.11	0.79
3:J:1219:ASP:OD1	3:J:1222:ARG:NH2	2.14	0.79
2:I:1285:TYR:CD2	3:J:475:GLU:HG2	2.17	0.79
1:A:190:ALA:HB2	1:A:200:LYS:N	1.98	0.79
1:A:44:ARG:HG2	1:A:45:ARG:N	1.95	0.79
1:B:76:GLU:N	1:B:76:GLU:OE1	2.13	0.79
2:C:516:ASP:HA	2:C:761:GLN:HE22	1.48	0.79
3:D:806:ASP:HA	3:D:1347:LEU:CD1	2.12	0.79
3:D:707:ILE:O	3:D:714:GLU:N	2.12	0.79
1:G:28:LEU:HD23	1:H:231:PHE:HE1	1.46	0.79
5:L:135:ALA:HB1	5:L:253:SER:HB3	1.65	0.79
2:C:1113:LEU:CD1	3:D:641:ILE:HD11	2.13	0.79
2:C:27:LEU:O	2:C:528:ARG:NH1	2.14	0.79
3:D:117:LEU:HA	3:D:124:ILE:HD12	1.62	0.79
1:G:89:ALA:O	1:G:124:VAL:HG12	1.80	0.79
2:I:1142:ARG:NH1	2:I:1165:SER:HA	1.97	0.79
2:I:1087:TYR:HE1	2:I:1215:GLY:HA2	1.45	0.79
2:I:968:GLU:HG3	2:I:1018:TYR:HE1	1.46	0.79
3:J:322:ARG:HG3	3:J:323:PRO:HD2	1.65	0.79
3:J:746:LEU:CD2	3:J:758:PRO:HG3	2.12	0.79
3:D:1159:ILE:HG22	3:D:1177:ILE:CD1	2.13	0.79
1:G:67:GLU:HB2	1:G:79:LEU:HD23	1.62	0.79
1:G:79:LEU:O	1:G:83:LEU:HD13	1.82	0.79
2:I:1212:LEU:HD22	2:I:1225:VAL:HG21	1.64	0.79
2:I:1292:THR:HG22	2:I:1293:VAL:HG23	1.65	0.79
2:I:407:ARG:HH22	2:I:414:ILE:HG22	1.47	0.79
5:L:439:ILE:HG13	5:L:440:THR:N	1.98	0.79
2:C:1160:ASP:HB2	2:C:1161:LEU:CA	2.12	0.79
2:C:15:PHE:HB3	2:C:17:LYS:NZ	1.98	0.79
2:C:98:VAL:HG21	2:C:124:MET:HE3	1.63	0.79
3:D:1203:ARG:NH2	3:D:1205:GLU:OE2	2.15	0.79
3:J:598:LYS:O	3:J:601:ILE:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:762:ASN:ND2	3:J:765:GLU:OE2	2.15	0.79
5:L:224:LEU:HA	5:L:255:VAL:HG11	1.62	0.79
1:B:81:ILE:HG22	1:B:85:LEU:CD2	2.12	0.79
2:C:1149:TYR:HD1	2:C:1159:VAL:HG11	1.47	0.79
2:C:799:ASN:HB3	2:C:1231:TYR:CD1	2.15	0.79
3:D:259:ARG:HG2	3:D:260:PHE:N	1.97	0.79
3:J:242:LEU:HD23	3:J:243:PRO:CD	2.12	0.79
3:J:678:ARG:HG3	3:J:679:TYR:H	1.48	0.79
1:B:152:TYR:HA	1:B:175:ALA:O	1.82	0.79
1:B:255:ARG:HH11	1:B:255:ARG:CG	1.95	0.79
2:C:1281:TYR:CE1	3:D:484:MET:HA	2.18	0.79
3:D:514:THR:OG1	3:D:514:THR:O	2.00	0.79
3:D:670:SER:HB2	3:D:672:LEU:CD1	2.13	0.79
3:D:270:ARG:NH2	5:F:449:THR:HG23	1.98	0.79
5:F:572:THR:HG23	5:F:575:GLU:CB	2.10	0.79
3:J:336:GLY:HA2	3:J:1327:GLU:N	1.95	0.79
3:J:358:GLY:H	3:J:359:PRO:HD3	1.47	0.79
3:J:801:VAL:O	3:J:805:GLN:HB2	1.82	0.79
2:C:1125:GLY:HA3	2:C:1179:GLY:HA2	1.64	0.79
2:C:250:THR:HA	2:C:268:ARG:HA	1.65	0.79
2:C:522:SER:HA	2:C:525:THR:HG22	1.65	0.79
2:C:755:LYS:O	2:C:757:THR:HG22	1.83	0.79
5:F:279:ARG:NH2	5:F:350:GLU:OE1	2.15	0.79
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.65	0.79
2:I:216:THR:HG23	2:I:219:GLN:OE1	1.83	0.79
3:J:114:ILE:HD12	3:J:304:ASP:HB3	1.63	0.79
3:J:41:PRO:HB2	3:J:270:ARG:HG3	1.65	0.79
1:A:18:GLN:HA	1:A:24:ALA:CB	2.13	0.79
2:I:452:ARG:NH1	2:I:452:ARG:HG3	1.95	0.79
2:I:901:LEU:HA	5:L:563:PHE:HE2	1.46	0.79
3:J:275:ARG:HH11	3:J:298:MET:HB3	1.48	0.79
2:C:4:SER:OG	2:C:5:TYR:N	2.14	0.78
3:D:260:PHE:HB2	5:F:504:PRO:HG3	1.65	0.78
2:I:1281:TYR:OH	3:J:432:LEU:HA	1.83	0.78
3:J:1153:PRO:HA	3:J:1214:PRO:O	1.84	0.78
5:L:404:LEU:O	5:L:408:GLY:N	2.16	0.78
1:A:57:THR:HG23	1:A:158:ARG:NH1	1.98	0.78
2:C:593:LYS:HB3	2:C:602:GLU:CG	2.13	0.78
3:D:147:ILE:HG13	3:D:177:ASP:HB3	1.63	0.78
3:D:768:ASN:N	3:D:771:GLN:OE1	2.16	0.78
5:F:540:LEU:HD13	5:F:607:LEU:CD2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:614:LEU:N	3:J:615:LYS:HZ1	1.81	0.78
3:J:505:ASP:HB3	3:J:629:PHE:CE1	2.18	0.78
3:J:847:ASP:N	3:J:847:ASP:OD1	2.16	0.78
5:L:253:SER:O	5:L:257:LYS:N	2.16	0.78
1:B:33:ARG:NH1	1:B:33:ARG:HG2	1.92	0.78
2:C:1174:GLU:OE2	2:C:1177:ARG:NH1	2.16	0.78
2:C:1191:LYS:HZ3	2:C:1193:ALA:N	1.81	0.78
2:C:1238:LEU:HD12	2:C:1238:LEU:H	1.49	0.78
2:C:146:VAL:CG1	2:C:529:ARG:HB3	2.13	0.78
2:C:146:VAL:HG12	2:C:529:ARG:HB3	1.62	0.78
2:C:98:VAL:HG21	2:C:124:MET:CE	2.12	0.78
1:G:190:ALA:HB2	1:G:200:LYS:HB2	1.66	0.78
2:I:331:LYS:HB2	2:I:332:ARG:HH21	1.48	0.78
3:J:492:SER:CB	3:J:499:ILE:HD13	2.14	0.78
3:J:614:LEU:HD23	4:K:7:GLN:HB2	1.63	0.78
3:J:617:THR:O	3:J:620:PHE:HB3	1.84	0.78
5:L:316:PHE:CZ	5:L:334:SER:HA	2.18	0.78
1:A:41:ASN:HB2	2:C:1218:GLY:HA3	1.66	0.78
3:D:528:THR:O	3:D:551:ARG:HB3	1.83	0.78
3:D:903:LEU:HD21	3:D:909:ILE:HD12	1.64	0.78
2:I:280:ASP:CB	2:I:282:VAL:HG23	2.11	0.78
2:I:798:GLN:NE2	2:I:827:ARG:O	2.16	0.78
3:J:1181:ASP:OD1	3:J:1182:GLY:N	2.13	0.78
3:J:115:TRP:CZ2	3:J:1329:THR:HG23	2.18	0.78
3:J:910:ASN:ND2	4:K:15:ASN:HA	1.99	0.78
2:I:1212:LEU:HD22	2:I:1225:VAL:CG2	2.13	0.78
3:J:152:THR:HG21	3:J:176:PHE:CB	2.13	0.78
4:K:67:ARG:NH1	4:K:71:GLU:OE2	2.16	0.78
1:B:112:ALA:HA	1:B:115:ILE:HG13	1.64	0.78
1:B:216:ALA:O	1:B:220:ALA:N	2.15	0.78
1:A:232:VAL:O	1:B:218:ARG:HG2	1.83	0.78
2:C:356:THR:HG21	2:C:362:ALA:HA	1.65	0.78
2:I:557:ARG:NH2	2:I:608:ALA:HA	1.98	0.78
3:J:1184:ASP:N	3:J:1185:PRO:HD3	1.98	0.78
3:D:1341:ARG:NH1	3:D:1343:GLU:OE2	2.16	0.78
5:F:130:VAL:HG13	5:F:365:MET:HG3	1.66	0.78
5:F:295:CYS:SG	5:F:330:LEU:HD23	2.23	0.78
2:I:1116:HIS:CE1	3:J:641:ILE:HB	2.18	0.78
2:C:1339:LEU:HD23	3:D:17:PHE:CE1	2.19	0.78
3:J:405:GLU:O	3:J:408:VAL:HG22	1.84	0.78
3:J:413:ASP:O	3:J:416:ILE:HG22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:660:GLU:HB3	3:J:685:ILE:HD12	1.65	0.78
3:J:688:ALA:O	3:J:692:ARG:N	2.16	0.78
5:L:387:VAL:HG13	5:L:435:ILE:HG21	1.66	0.78
2:C:26:TYR:CE2	2:C:28:LEU:HB2	2.18	0.78
2:C:367:TYR:HD1	2:C:381:ALA:HA	1.48	0.78
2:C:517:GLN:HE21	2:C:759:SER:HA	1.48	0.78
2:C:80:PHE:HB3	2:C:84:GLU:HB2	1.65	0.78
3:D:660:GLU:HB3	3:D:685:ILE:HD12	1.65	0.78
5:F:265:GLN:O	5:F:268:TYR:HB3	1.83	0.78
5:F:366:SER:HA	5:F:369:GLU:OE1	1.84	0.78
5:F:562:ARG:HG2	5:F:573:LEU:CD1	2.12	0.78
2:I:148:GLN:HG2	2:I:149:LEU:H	1.48	0.78
2:I:646:SER:CB	2:I:649:GLN:HG3	2.13	0.78
2:I:517:GLN:N	2:I:761:GLN:OE1	2.16	0.78
2:I:890:LYS:HE2	2:I:891:GLY:O	1.82	0.78
3:J:97:VAL:HG11	3:J:101:ARG:CZ	2.13	0.78
3:J:1167:LYS:HB2	3:J:1174:ARG:HH11	1.49	0.78
3:J:580:TRP:HA	3:J:583:VAL:HG23	1.64	0.78
5:L:108:VAL:HA	5:L:385:ARG:NH1	1.97	0.78
2:C:1033:ARG:HH11	2:C:1033:ARG:HG2	1.47	0.78
2:C:685:MET:CE	2:C:1071:GLY:HA2	2.14	0.78
3:D:854:ALA:HB1	3:J:1372:ARG:HG3	1.64	0.78
3:D:866:GLU:OE1	3:D:866:GLU:N	2.17	0.78
2:I:493:ILE:O	5:L:472:GLN:NE2	2.17	0.78
5:L:246:GLN:O	5:L:250:LEU:HG	1.83	0.78
5:L:377:LYS:O	5:L:381:GLU:HG3	1.84	0.78
5:L:530:LEU:CD1	5:L:530:LEU:H	1.95	0.78
1:B:192:VAL:HB	1:B:195:ARG:HG3	1.65	0.77
1:B:82:LEU:HA	1:B:85:LEU:CD1	2.14	0.77
2:C:992:LEU:HB2	2:C:993:PRO:HD2	1.64	0.77
3:D:1372:ARG:HH21	3:J:854:ALA:CB	1.93	0.77
2:I:403:MET:HE3	2:I:404:LYS:N	1.99	0.77
3:J:174:ASP:O	3:J:175:GLU:HG2	1.82	0.77
3:J:210:SER:HB2	3:J:213:LYS:CB	2.14	0.77
3:D:1165:PHE:CD2	3:D:1175:LEU:HD13	2.19	0.77
1:G:45:ARG:HG3	1:G:46:ILE:HD13	1.65	0.77
1:H:107:ILE:HG12	1:H:136:GLU:O	1.83	0.77
3:J:370:LYS:HG2	3:J:441:LEU:HD12	1.64	0.77
5:L:374:ARG:O	5:L:378:GLU:HG3	1.85	0.77
1:B:192:VAL:O	1:B:194:GLN:N	2.17	0.77
3:D:748:ALA:HA	3:D:754:ILE:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:594:ALA:HB3	5:F:595:LEU:HD23	1.67	0.77
5:L:563:PHE:O	5:L:565:ILE:N	2.17	0.77
3:D:576:ARG:NH1	3:D:593:ASN:O	2.17	0.77
2:I:1075:VAL:CG2	3:J:463:GLY:HA2	2.14	0.77
2:C:378:ARG:NH1	2:C:382:GLU:OE2	2.17	0.77
2:C:899:GLU:O	2:C:902:LEU:N	2.16	0.77
2:I:359:ARG:HG2	2:I:363:LEU:HD12	1.65	0.77
2:I:724:VAL:HG23	2:I:775:GLU:O	1.83	0.77
3:J:353:SER:OG	3:J:354:VAL:N	2.15	0.77
3:J:418:GLU:HB3	4:K:48:VAL:HG23	1.64	0.77
3:J:814:CYS:CB	3:J:889:ASP:HB3	2.13	0.77
1:A:7:GLU:OE1	1:B:150:ARG:NH2	2.17	0.77
2:C:519:ASN:HD21	2:C:689:ALA:HB3	1.47	0.77
3:D:426:ALA:HB1	3:D:427:PRO:HD3	1.67	0.77
3:D:521:LYS:O	3:D:542:ALA:HA	1.83	0.77
2:I:818:VAL:HG22	2:I:1096:ILE:HG12	1.67	0.77
3:J:362:ARG:O	3:J:365:GLN:HG2	1.84	0.77
3:J:270:ARG:NH2	5:L:449:THR:HG23	1.98	0.77
1:A:39:LEU:O	1:A:43:LEU:N	2.16	0.77
2:C:98:VAL:O	2:C:121:GLU:HA	1.84	0.77
3:D:1215:GLU:CG	3:D:1220:ILE:HD11	2.15	0.77
3:D:793:SER:O	3:D:796:LEU:HB3	1.85	0.77
2:I:389:PHE:HA	2:I:395:TYR:CD1	2.20	0.77
3:J:232:ASN:HA	3:J:236:TRP:CZ3	2.20	0.77
3:J:520:ALA:HB3	3:J:546:ALA:CB	2.12	0.77
2:C:241:LEU:HD11	2:C:246:LEU:HD11	1.65	0.77
3:D:1316:THR:HG22	3:D:1318:SER:N	1.99	0.77
3:D:747:MET:O	3:D:755:ILE:HG13	1.85	0.77
2:I:1276:TRP:HA	2:I:1279:GLU:OE1	1.84	0.77
3:J:339:ARG:O	3:J:798:ARG:NH2	2.18	0.77
3:J:844:THR:HG23	3:J:864:LEU:HD21	1.65	0.77
5:L:239:GLY:O	5:L:245:ALA:HB2	1.85	0.77
1:A:197:ASP:O	1:A:198:LEU:HD23	1.85	0.77
1:B:292:THR:HB	1:B:295:LEU:CB	2.15	0.77
2:C:605:TYR:C	2:C:606:LEU:HD12	2.04	0.77
2:C:883:LEU:HB2	2:C:918:LEU:CD1	2.13	0.77
3:D:1175:LEU:O	3:D:1187:GLU:HA	1.85	0.77
3:D:35:PHE:HD1	3:D:101:ARG:HB3	1.47	0.77
1:H:115:ILE:HG22	1:H:116:THR:H	1.49	0.77
3:J:642:ASP:HA	3:J:764:ARG:HH21	1.48	0.77
3:J:857:LEU:HD13	3:J:872:LEU:HD21	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:VAL:CG2	1:A:15:ASP:H	1.89	0.77
3:D:1168:GLU:O	3:D:1170:LYS:N	2.17	0.77
3:D:820:ILE:HG22	3:D:1227:HIS:ND1	2.00	0.77
3:D:146:VAL:HB	3:D:156:ARG:O	1.84	0.77
3:D:278:ARG:HA	3:D:281:ARG:NH1	1.99	0.77
3:D:908:ILE:HD13	3:D:909:ILE:O	1.85	0.77
1:H:76:GLU:N	1:H:76:GLU:OE1	2.18	0.77
2:I:98:VAL:HG21	2:I:124:MET:HE2	1.67	0.77
3:J:1157:ALA:HB3	3:J:1207:GLY:H	1.50	0.77
3:J:289:ASP:OD1	3:J:289:ASP:N	2.17	0.77
1:B:9:LEU:HB3	1:B:32:GLU:HG3	1.67	0.76
3:D:242:LEU:HD23	3:D:243:PRO:HD2	1.66	0.76
5:F:575:GLU:HA	5:F:578:LYS:HD2	1.67	0.76
1:H:41:ASN:OD1	2:I:1217:THR:HA	1.86	0.76
3:J:342:LEU:O	3:J:344:GLY:N	2.17	0.76
3:J:45:ASN:O	3:J:46:TYR:HB3	1.83	0.76
3:J:576:ARG:NH1	3:J:593:ASN:O	2.15	0.76
1:A:45:ARG:HH12	1:B:37:HIS:HB2	1.49	0.76
3:D:1282:TYR:HD2	3:D:1286:LYS:HZ1	1.33	0.76
3:D:260:PHE:CB	5:F:504:PRO:HG2	2.15	0.76
2:I:1287:LEU:HD22	3:J:1357:ILE:HD11	1.67	0.76
2:C:1024:GLU:HA	2:C:1027:LYS:CD	2.13	0.76
3:D:120:LEU:HB3	3:D:121:PRO:CD	2.14	0.76
3:D:37:GLU:OE2	3:D:106:GLU:N	2.15	0.76
5:F:581:ASP:O	5:F:583:THR:HG22	1.85	0.76
1:G:88:LEU:HD13	1:G:128:HIS:HD2	1.51	0.76
1:G:76:GLU:OE1	1:G:132:HIS:N	2.18	0.76
3:J:614:LEU:HB3	3:J:615:LYS:HZ3	1.48	0.76
2:I:1109:ILE:HD11	3:J:644:MET:SD	2.25	0.76
5:F:583:THR:OG1	5:F:584:ARG:HG2	1.85	0.76
1:G:133:LEU:HD21	1:G:140:ILE:HD11	1.68	0.76
1:G:32:GLU:HB2	1:G:35:PHE:CD2	2.20	0.76
3:J:262:THR:O	5:L:507:MET:N	2.18	0.76
3:J:770:LEU:H	3:J:770:LEU:HD13	1.50	0.76
3:J:901:ARG:HA	3:J:908:ILE:HA	1.68	0.76
2:C:57:PHE:HD1	2:C:70:TYR:HB2	1.51	0.76
1:G:31:LEU:HB2	1:G:199:ASP:O	1.86	0.76
2:I:1131:MET:CE	2:I:1141:LEU:HD12	2.12	0.76
2:I:12:ARG:HG3	2:I:1181:PRO:HB2	1.66	0.76
3:J:1262:ARG:NH2	3:J:1312:ALA:HB1	2.00	0.76
3:J:908:ILE:HD13	3:J:909:ILE:N	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:124:GLU:HG2	5:L:128:ASN:HD21	1.51	0.76
5:L:394:TYR:CG	5:L:439:ILE:HD11	2.20	0.76
2:C:1196:LYS:CD	2:C:1206:THR:HG23	2.13	0.76
2:C:1278:LEU:CD1	2:C:1287:LEU:HB2	2.15	0.76
1:G:125:LYS:HE2	1:G:128:HIS:HB2	1.67	0.76
1:H:79:LEU:HA	1:H:82:LEU:HG	1.67	0.76
2:I:1082:ILE:HD12	2:I:1082:ILE:H	1.50	0.76
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.18	0.76
3:J:645:VAL:HB	3:J:701:LEU:CD2	2.16	0.76
2:C:323:ALA:O	2:C:327:GLN:N	2.17	0.76
2:C:817:LEU:CD2	2:C:1080:ASN:HD22	1.97	0.76
3:D:45:ASN:OD1	3:D:48:THR:N	2.17	0.76
3:D:362:ARG:HG2	3:D:626:TYR:OH	1.85	0.76
5:F:435:ILE:O	5:F:439:ILE:HG23	1.86	0.76
2:I:130:MET:HB2	2:I:136:PHE:HE1	1.49	0.76
3:J:16:GLU:HG3	3:J:17:PHE:HD2	1.50	0.76
5:L:138:PRO:HD2	5:L:353:LEU:HD11	1.66	0.76
5:L:448:ARG:HG2	5:L:448:ARG:HH11	1.50	0.76
5:L:453:PRO:HB3	5:L:455:HIS:CE1	2.21	0.76
1:A:162:GLU:CG	1:A:165:GLU:HG2	2.13	0.76
1:A:61:ILE:HG22	1:A:64:VAL:HG21	1.67	0.76
3:D:336:GLY:HA2	3:D:338:PHE:HA	1.68	0.76
2:I:551:HIS:O	2:I:554:HIS:N	2.18	0.76
5:L:269:LEU:O	5:L:273:MET:HG3	1.86	0.76
3:D:1181:ASP:OD1	3:D:1182:GLY:N	2.19	0.76
3:D:598:LYS:HA	3:D:601:ILE:HG22	1.67	0.76
3:J:300:GLN:NE2	3:J:304:ASP:OD2	2.19	0.76
2:I:1295:SER:HB2	3:J:347:VAL:HG23	1.66	0.76
1:A:12:ARG:H	1:A:30:PRO:CD	1.97	0.76
3:D:1280:VAL:CG2	3:D:1304:ARG:HE	1.99	0.76
2:I:1120:ALA:HB2	2:I:1199:LEU:CD2	2.15	0.76
2:I:358:ASP:OD1	2:I:361:SER:N	2.19	0.76
1:B:224:LEU:O	1:B:227:GLN:HB2	1.86	0.75
2:C:884:VAL:HG11	2:C:1050:VAL:HG21	1.66	0.75
2:C:1078:LYS:HG2	2:C:1079:ILE:N	2.01	0.75
3:D:618:VAL:O	3:D:621:ALA:N	2.18	0.75
1:G:85:LEU:HD21	1:G:130:ILE:HG23	1.67	0.75
2:I:1042:LEU:HB2	2:I:1046:VAL:HG21	1.67	0.75
2:I:683:ALA:HA	2:I:686:GLN:HB2	1.66	0.75
2:I:39:ILE:CD1	2:I:75:LEU:HG	2.16	0.75
2:C:481:LEU:H	2:C:481:LEU:HD22	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:358:GLY:H	3:D:359:PRO:HD3	1.50	0.75
4:E:24:ALA:O	4:E:27:ALA:N	2.17	0.75
5:F:428:SER:O	5:F:431:ALA:N	2.15	0.75
2:I:10:ARG:HH12	2:I:697:LYS:HD3	1.49	0.75
1:A:31:LEU:HB2	1:A:199:ASP:O	1.86	0.75
2:C:1132:LEU:HD22	2:C:1177:ARG:NH2	2.01	0.75
3:D:808:VAL:O	3:D:810:THR:HG22	1.86	0.75
2:I:277:LEU:HD23	2:I:282:VAL:HB	1.68	0.75
5:L:387:VAL:HG22	5:L:435:ILE:CD1	2.17	0.75
1:A:92:VAL:HG11	1:A:98:VAL:HG13	1.68	0.75
1:B:153:VAL:O	1:B:175:ALA:N	2.18	0.75
2:C:1210:ILE:HG22	2:C:1211:ARG:O	1.86	0.75
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.16	0.75
2:C:1305:TYR:HE1	3:D:379:PRO:HG2	1.51	0.75
2:C:389:PHE:O	2:C:419:ILE:HG22	1.85	0.75
2:C:529:ARG:HG2	2:C:530:ILE:H	1.50	0.75
3:D:220:ARG:O	3:D:224:LEU:HD12	1.86	0.75
1:G:57:THR:HG22	1:G:58:GLU:HG3	1.68	0.75
2:I:1160:ASP:HB2	2:I:1161:LEU:HA	1.67	0.75
3:J:678:ARG:HG3	3:J:679:TYR:N	2.02	0.75
1:A:14:VAL:HG22	1:A:15:ASP:N	1.95	0.75
2:C:646:SER:CB	2:C:649:GLN:HG3	2.14	0.75
2:C:516:ASP:HA	2:C:761:GLN:NE2	2.02	0.75
3:D:18:ASP:HB3	3:D:1369:ARG:NH1	2.01	0.75
5:F:286:LEU:HD23	5:F:340:ALA:HB2	1.67	0.75
1:H:153:VAL:HG11	1:H:158:ARG:NH1	2.00	0.75
3:J:674:THR:HG23	3:J:677:GLU:CD	2.06	0.75
1:A:196:THR:OG1	1:A:197:ASP:N	2.20	0.75
3:D:130:MET:HG3	3:D:131:PRO:HD2	1.68	0.75
3:D:190:LYS:HA	3:D:235:GLU:HG3	1.68	0.75
3:J:264:ASP:HB3	3:J:324:LEU:HB2	1.69	0.75
3:J:303:VAL:O	3:J:306:LEU:N	2.19	0.75
2:C:971:LEU:CD1	2:C:1018:TYR:HB2	2.17	0.75
2:C:216:THR:OG1	2:C:219:GLN:N	2.20	0.75
4:E:71:GLU:O	4:E:75:GLN:HG3	1.87	0.75
1:G:81:ILE:O	1:G:85:LEU:HG	1.86	0.75
3:J:352:ARG:CB	3:J:467:ALA:HA	2.17	0.75
3:J:707:ILE:HD11	3:J:716:GLN:HG2	1.69	0.75
3:J:610:ARG:HG2	3:J:866:GLU:HG2	1.68	0.75
5:L:119:ILE:HA	5:L:122:ARG:HG3	1.67	0.75
3:D:63:GLY:O	3:D:98:ARG:HD2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:240:ARG:HD3	5:F:244:THR:CB	2.16	0.75
2:I:182:SER:OG	2:I:199:ASP:OD1	2.04	0.75
2:I:884:VAL:HG11	2:I:1050:VAL:CG2	2.16	0.75
3:J:1221:LEU:HD13	3:J:1222:ARG:N	2.02	0.75
1:B:35:PHE:CA	1:B:38:THR:HG22	2.10	0.75
2:C:448:LEU:HD11	2:C:554:HIS:ND1	2.02	0.75
3:D:1262:ARG:HH22	3:D:1312:ALA:HB1	1.51	0.75
3:D:98:ARG:NH1	3:D:248:ASP:OD2	2.19	0.75
3:D:812:ASP:O	3:D:896:ALA:N	2.19	0.75
2:I:518:ASN:OD1	2:I:518:ASN:N	2.20	0.75
2:I:626:GLU:OE2	2:I:626:GLU:N	2.20	0.75
2:I:854:ILE:HG23	2:I:855:PRO:HD2	1.68	0.75
3:J:134:ASP:O	3:J:138:VAL:HG23	1.87	0.75
3:J:865:HIS:CE1	3:J:868:TRP:H	2.03	0.75
2:C:88:ARG:NH1	2:C:88:ARG:HB2	2.02	0.74
2:C:960:LEU:HA	2:C:963:GLU:HG3	1.67	0.74
3:D:903:LEU:CD2	3:D:909:ILE:HD12	2.17	0.74
1:G:9:LEU:HD22	1:G:32:GLU:HG2	1.69	0.74
1:G:231:PHE:HB3	1:H:218:ARG:HB3	1.69	0.74
2:I:1295:SER:CB	3:J:347:VAL:HG23	2.17	0.74
2:C:1013:GLN:HA	2:C:1016:GLU:OE2	1.86	0.74
2:C:122:VAL:HG21	2:C:493:ILE:CG2	2.17	0.74
3:D:224:LEU:O	3:D:227:PHE:N	2.20	0.74
4:E:7:GLN:NE2	4:E:7:GLN:O	2.21	0.74
5:F:119:ILE:HA	5:F:122:ARG:HG3	1.69	0.74
2:I:1255:THR:O	2:I:1257:GLN:N	2.20	0.74
2:I:59:ILE:HD13	2:I:472:GLU:HG3	1.67	0.74
3:J:1146:GLU:HB3	3:J:1148:ARG:HG3	1.67	0.74
3:J:146:VAL:HA	3:J:178:ALA:HB2	1.68	0.74
1:A:224:LEU:HB3	1:B:228:LEU:HD11	1.67	0.74
2:C:819:SER:HB2	2:C:1085:MET:SD	2.27	0.74
3:D:194:LEU:HD13	3:D:228:VAL:HG22	1.68	0.74
2:I:519:ASN:ND2	2:I:689:ALA:HB3	2.00	0.74
3:J:1318:SER:HA	3:J:1342:ASP:OD2	1.86	0.74
3:J:260:PHE:CB	5:L:504:PRO:HG3	2.16	0.74
3:J:622:ASP:HB3	3:J:626:TYR:CE2	2.22	0.74
3:D:369:PRO:HB3	3:D:444:GLY:O	1.88	0.74
1:H:61:ILE:HB	1:H:64:VAL:O	1.87	0.74
2:I:1022:LYS:O	2:I:1025:PHE:HB3	1.87	0.74
2:I:807:TRP:HE1	2:I:1086:PRO:HG3	1.51	0.74
2:I:1077:SER:CB	3:J:357:VAL:HG23	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:427:PRO:O	3:J:429:LEU:HD22	1.87	0.74
4:K:13:ILE:HD11	4:K:54:ILE:HG21	1.68	0.74
1:B:41:ASN:O	1:B:45:ARG:HG3	1.88	0.74
2:C:1276:TRP:HD1	8:D:2004:4C4:H32	1.53	0.74
3:D:1162:ILE:HD12	3:D:1163:VAL:H	1.53	0.74
3:D:1352:ILE:HD11	8:D:2004:4C4:H6	1.69	0.74
2:I:815:SER:HB3	3:J:461:PHE:HD1	1.52	0.74
2:I:921:PRO:HB2	2:I:924:VAL:HG22	1.69	0.74
3:J:1159:ILE:HG22	3:J:1177:ILE:CD1	2.17	0.74
1:A:137:ASN:N	1:A:137:ASN:OD1	2.21	0.74
1:B:273:GLU:OE2	1:B:293:PRO:HG2	1.88	0.74
2:C:360:LEU:HD13	2:C:378:ARG:HH21	1.53	0.74
2:C:569:ILE:O	2:C:571:LEU:N	2.21	0.74
1:G:9:LEU:HB3	1:G:32:GLU:CD	2.08	0.74
3:J:116:PHE:HB2	3:J:124:ILE:HD11	1.69	0.74
2:C:788:SER:O	2:C:794:LEU:HD12	1.86	0.74
3:D:857:LEU:HD23	3:D:871:LEU:CD2	2.11	0.74
3:D:88:CYS:O	3:D:90:VAL:N	2.20	0.74
2:I:161:LYS:O	2:I:163:LYS:N	2.21	0.74
3:J:149:GLY:O	3:J:176:PHE:HB2	1.87	0.74
3:J:235:GLU:OE1	3:J:235:GLU:N	2.18	0.74
3:J:52:GLU:HG2	5:L:451:ARG:NH1	2.02	0.74
2:C:1113:LEU:HD11	3:D:641:ILE:CD1	2.17	0.74
3:D:1274:PHE:HE2	3:D:1275:LEU:HD23	1.51	0.74
5:F:390:ILE:HD13	5:F:435:ILE:HG22	1.69	0.74
2:I:3:TYR:CZ	2:I:1158:LYS:HE2	2.23	0.74
2:I:563:THR:HG23	2:I:564:PRO:HD2	1.67	0.74
2:I:726:TYR:HE2	2:I:728:ASP:HB2	1.51	0.74
2:I:930:ASP:OD2	2:I:931:VAL:N	2.21	0.74
3:J:270:ARG:CZ	5:L:449:THR:HG23	2.18	0.74
3:J:583:VAL:HG13	3:J:587:LEU:HD22	1.70	0.74
3:J:697:MET:SD	3:J:741:ALA:HB3	2.28	0.74
2:C:745:GLU:CG	2:C:1017:GLN:HB3	2.17	0.74
3:D:115:TRP:CE2	3:D:1329:THR:HG23	2.23	0.74
3:D:1348:LYS:HG3	8:D:2004:4C4:C22	2.17	0.74
3:D:378:LYS:NZ	3:D:382:TYR:OH	2.21	0.74
2:I:1257:GLN:NE2	2:I:1296:ASP:OD1	2.21	0.74
3:J:127:LEU:O	3:J:220:ARG:NH2	2.20	0.74
1:A:201:LEU:HD12	1:A:202:VAL:N	2.02	0.74
2:C:339:ASN:OD1	2:C:341:LEU:N	2.21	0.74
3:D:573:THR:HG23	3:D:576:ARG:CD	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:363:ARG:O	5:F:366:SER:N	2.20	0.74
2:I:1319:MET:HG3	2:I:1320:PRO:HD2	1.69	0.74
3:J:152:THR:HG21	3:J:176:PHE:HB3	1.68	0.74
3:J:416:ILE:CD1	3:J:441:LEU:HD21	2.17	0.74
5:L:357:GLN:NE2	5:L:360:ASP:OD2	2.21	0.74
2:I:1103:VAL:HG21	2:I:1112:ILE:HD11	1.70	0.73
2:I:685:MET:CE	2:I:1071:GLY:HA2	2.18	0.73
2:I:817:LEU:HD22	2:I:818:VAL:N	2.03	0.73
3:J:204:GLU:HA	3:J:207:GLU:HB2	1.68	0.73
3:J:869:CYS:O	3:J:873:GLU:N	2.21	0.73
2:C:192:ASP:OD2	2:C:436:ARG:NH2	2.21	0.73
2:C:1276:TRP:CD1	8:D:2004:4C4:H32	2.22	0.73
3:D:290:ILE:HD12	3:D:290:ILE:N	2.02	0.73
3:D:320:ASN:OD1	3:D:322:ARG:HB3	1.89	0.73
1:G:228:LEU:HG	1:H:221:ALA:HB1	1.68	0.73
1:H:52:PRO:HA	1:H:149:GLY:O	1.88	0.73
2:I:1087:TYR:HE1	2:I:1215:GLY:CA	2.01	0.73
2:I:688:GLN:HB2	2:I:1235:LEU:HD22	1.70	0.73
2:I:1280:ALA:HB3	3:J:431:ARG:HB3	1.70	0.73
1:A:45:ARG:HG3	1:A:46:ILE:HD13	1.69	0.73
2:C:1191:LYS:HD3	2:C:1193:ALA:N	2.03	0.73
2:C:130:MET:SD	2:C:134:GLY:HA2	2.28	0.73
3:D:872:LEU:HD22	3:D:877:VAL:HG21	1.68	0.73
2:I:20:GLN:HG3	2:I:20:GLN:O	1.88	0.73
2:I:885:GLY:HA2	2:I:917:SER:HB3	1.68	0.73
1:A:45:ARG:CG	1:B:38:THR:HB	2.19	0.73
3:D:156:ARG:HH12	3:D:157:GLN:NE2	1.81	0.73
3:D:617:THR:O	3:D:620:PHE:HB3	1.89	0.73
3:D:620:PHE:CD2	3:D:624:ILE:HD11	2.23	0.73
5:F:234:THR:CB	5:F:245:ALA:HB1	2.13	0.73
5:F:390:ILE:HD13	5:F:435:ILE:CG2	2.18	0.73
1:H:183:ILE:HD12	1:H:183:ILE:H	1.53	0.73
2:I:111:GLU:OE1	2:I:111:GLU:N	2.21	0.73
5:L:227:GLN:CG	5:L:252:LEU:HA	2.18	0.73
1:A:81:ILE:HA	1:A:84:ASN:ND2	2.00	0.73
1:B:104:LYS:HG2	1:B:110:VAL:HG22	1.71	0.73
5:F:270:VAL:HG12	5:F:274:ARG:CZ	2.18	0.73
1:G:93:GLN:HB2	1:G:120:ASP:OD2	1.89	0.73
2:I:1284:ALA:HB1	3:J:1356:LEU:CD2	2.18	0.73
2:I:800:MET:CE	2:I:1096:ILE:HD11	2.17	0.73
3:J:859:PRO:HG2	3:J:862:THR:HG21	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:552:THR:HG23	5:L:555:GLU:CB	2.18	0.73
2:C:1268:GLN:CD	3:D:352:ARG:HD3	2.09	0.73
2:C:18:ARG:NH1	2:C:620:ASN:HA	2.04	0.73
4:E:15:ASN:C	4:E:17:PHE:H	1.92	0.73
1:G:195:ARG:HG2	1:G:198:LEU:HG	1.71	0.73
2:I:989:LEU:HD13	2:I:1000:LEU:HD12	1.70	0.73
3:J:1262:ARG:HG3	3:J:1281:GLU:OE2	1.87	0.73
3:J:221:ILE:HA	3:J:224:LEU:HB2	1.69	0.73
3:J:634:ARG:HB3	3:J:634:ARG:CZ	2.16	0.73
3:J:418:GLU:HG3	4:K:45:LYS:H	1.54	0.73
5:L:117:ILE:O	5:L:120:ALA:N	2.22	0.73
1:A:49:SER:OG	1:A:50:SER:N	2.22	0.73
1:B:111:THR:HB	1:B:126:PRO:O	1.89	0.73
2:C:1132:LEU:HD13	2:C:1177:ARG:CZ	2.18	0.73
2:C:1202:GLY:O	2:C:1203:ASP:HB2	1.87	0.73
2:C:1312:ASN:OD1	2:C:1314:GLN:HG3	1.88	0.73
2:C:531:SER:OG	2:C:533:LEU:HB2	1.89	0.73
3:D:1280:VAL:HG21	3:D:1304:ARG:NE	2.02	0.73
3:D:525:MET:O	3:D:548:VAL:HG13	1.89	0.73
5:F:514:ASP:OD2	5:F:517:SER:OG	2.06	0.73
5:F:532:LEU:O	5:F:536:THR:HG23	1.88	0.73
1:G:88:LEU:HD12	1:G:89:ALA:H	1.53	0.73
1:H:57:THR:HG22	1:H:58:GLU:OE1	1.88	0.73
2:I:1066:MET:CE	2:I:1076:ILE:HD12	2.19	0.73
2:I:811:ASN:O	2:I:1099:ASN:ND2	2.22	0.73
2:I:1130:ALA:O	2:I:1134:GLN:N	2.16	0.73
2:I:229:ILE:HB	2:I:240:GLU:HB2	1.68	0.73
5:L:412:LEU:N	5:L:435:ILE:HG12	2.04	0.73
5:L:471:LEU:CD2	5:L:478:PRO:HD3	2.18	0.73
2:C:403:MET:HE3	2:C:404:LYS:N	2.04	0.73
2:C:396:ASP:HA	2:C:418:GLY:O	1.89	0.73
2:C:557:ARG:HH21	2:C:608:ALA:CA	2.00	0.73
3:D:507:VAL:HG11	3:D:598:LYS:HB2	1.69	0.73
5:F:525:ASP:CG	5:F:528:LEU:HG	2.08	0.73
1:G:166:ARG:O	1:G:168:ILE:N	2.21	0.73
2:I:1285:TYR:CD1	3:J:1361:THR:HG21	2.24	0.73
2:I:817:LEU:HD21	2:I:1080:ASN:HD22	1.54	0.73
3:J:682:VAL:O	3:J:685:ILE:HG12	1.88	0.73
3:J:702:GLN:HA	3:J:723:TYR:HE2	1.54	0.73
5:L:270:VAL:HA	5:L:273:MET:CE	2.19	0.73
2:C:495:ALA:HB3	5:F:471:LEU:HD13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:670:PHE:CD2	2:C:1113:LEU:HB3	2.23	0.73
3:D:1252:HIS:O	3:D:1255:VAL:HG13	1.89	0.73
3:D:193:ASP:HB3	3:D:196:GLN:CG	2.19	0.73
1:G:228:LEU:CG	1:H:221:ALA:HB1	2.18	0.73
1:H:37:HIS:CD2	2:I:1216:ARG:HD2	2.22	0.73
2:I:146:VAL:CG1	2:I:529:ARG:HB3	2.19	0.73
2:I:59:ILE:CG2	2:I:475:VAL:HG11	2.16	0.73
2:I:582:ASN:HB3	2:I:586:PHE:H	1.54	0.73
2:I:61:SER:OG	2:I:66:SER:N	2.17	0.73
1:G:134:THR:HG23	2:I:726:TYR:CE1	2.24	0.73
1:B:100:LEU:O	1:B:144:ILE:HG22	1.89	0.73
2:C:1060:ILE:HG13	2:C:1061:GLN:H	1.54	0.73
2:C:1287:LEU:HD23	2:C:1288:GLN:N	2.03	0.73
2:C:179:TYR:OH	2:C:462:ASN:ND2	2.20	0.73
2:C:593:LYS:HA	2:C:652:TYR:CD2	2.24	0.73
3:D:35:PHE:CD1	3:D:101:ARG:HD3	2.23	0.73
3:D:1162:ILE:O	3:D:1178:THR:N	2.22	0.73
3:D:1283:SER:O	3:D:1286:LYS:N	2.21	0.73
3:D:223:LEU:O	3:D:226:ALA:HB3	1.89	0.73
3:D:282:LEU:CD2	5:F:410:ILE:HD11	2.17	0.73
5:F:106:GLY:O	5:F:108:VAL:N	2.22	0.73
5:F:137:TYR:CD2	5:F:140:ALA:HB2	2.24	0.73
2:I:660:VAL:HG22	2:I:661:VAL:CG1	2.18	0.73
3:J:412:LEU:O	3:J:415:VAL:HG22	1.88	0.73
3:J:425:ARG:HG2	3:J:426:ALA:N	2.03	0.73
2:C:49:LEU:HD12	2:C:73:TYR:CZ	2.24	0.72
2:C:763:THR:OG1	2:C:764:CYS:N	2.15	0.72
2:C:930:ASP:OD2	2:C:931:VAL:N	2.22	0.72
5:F:525:ASP:OD1	5:F:527:THR:N	2.21	0.72
1:G:48:LEU:HD23	1:G:180:VAL:HB	1.71	0.72
3:J:339:ARG:HB3	3:J:340:GLN:CG	2.19	0.72
5:L:387:VAL:HG11	5:L:408:GLY:HA3	1.70	0.72
2:C:5:TYR:O	2:C:8:LYS:HG2	1.89	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:NZ	2.03	0.72
3:D:527:LEU:HD23	3:D:536:LEU:HD23	1.70	0.72
3:D:825:VAL:CG1	3:D:833:GLU:HB3	2.18	0.72
2:I:169:LYS:O	2:I:170:VAL:HG22	1.87	0.72
2:I:385:PHE:CE2	2:I:390:PHE:HE2	2.06	0.72
2:I:460:ALA:O	2:I:463:GLN:N	2.21	0.72
2:I:629:PHE:CE2	2:I:650:VAL:HG21	2.24	0.72
3:J:514:THR:HG21	3:J:596:LEU:CB	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:VAL:HG11	1:B:270:LEU:HD13	1.71	0.72
2:C:593:LYS:HG2	2:C:602:GLU:OE2	1.87	0.72
2:C:88:ARG:HB2	2:C:88:ARG:HH11	1.54	0.72
5:F:399:LEU:HD12	5:F:400:GLN:H	1.54	0.72
1:G:231:PHE:HB3	1:H:218:ARG:CB	2.20	0.72
2:I:1287:LEU:HD23	2:I:1288:GLN:N	2.03	0.72
2:I:390:PHE:HA	2:I:419:ILE:CG2	2.19	0.72
2:I:490:GLN:HE21	5:L:472:GLN:HB2	1.53	0.72
3:J:21:LYS:NZ	3:J:23:ALA:HB2	2.04	0.72
1:A:207:THR:HG22	1:A:209:GLY:N	2.02	0.72
2:C:1191:LYS:CD	2:C:1193:ALA:H	2.01	0.72
2:C:941:LYS:NZ	2:C:949:GLU:OE2	2.18	0.72
3:D:199:GLU:HA	3:D:202:ARG:HD2	1.71	0.72
3:D:361:LEU:HD23	3:D:365:GLN:HG3	1.70	0.72
3:D:473:THR:OG1	3:D:475:GLU:HB2	1.89	0.72
4:E:6:VAL:CG2	4:E:10:VAL:HG23	2.19	0.72
2:I:1062:PRO:HA	2:I:1076:ILE:CG2	2.19	0.72
2:I:15:PHE:CE1	2:I:1194:GLU:HB3	2.23	0.72
5:L:507:MET:O	5:L:519:LEU:HB3	1.90	0.72
2:C:1293:VAL:HG11	2:C:1304:MET:CB	2.18	0.72
2:C:59:ILE:CG2	2:C:475:VAL:HG11	2.18	0.72
3:D:258:GLY:O	5:F:499:LYS:HE3	1.90	0.72
3:D:826:ILE:HD12	3:D:826:ILE:O	1.89	0.72
4:E:68:GLU:O	4:E:71:GLU:N	2.22	0.72
3:J:275:ARG:NH1	3:J:301:GLU:OE1	2.19	0.72
3:J:826:ILE:HA	3:J:831:VAL:CA	2.19	0.72
4:K:44:ASP:HB2	4:K:49:ILE:HG13	1.71	0.72
5:L:596:ARG:HA	5:L:596:ARG:NE	2.03	0.72
1:A:43:LEU:HD13	1:A:203:ILE:HD11	1.72	0.72
2:C:1142:ARG:HD3	2:C:1161:LEU:HD13	1.70	0.72
2:C:1155:VAL:HG12	2:C:1156:ARG:H	1.55	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:CE	2.19	0.72
3:D:836:ARG:NE	3:D:869:CYS:HB3	2.01	0.72
5:F:494:ILE:HG22	5:F:498:LEU:HD21	1.72	0.72
2:I:237:LEU:HG	2:I:292:ILE:HD11	1.70	0.72
2:I:557:ARG:HH21	2:I:608:ALA:HA	1.53	0.72
2:I:4:SER:O	2:I:8:LYS:HB3	1.89	0.72
3:J:317:THR:HG23	3:J:320:ASN:HB3	1.70	0.72
3:J:510:LEU:HD23	3:J:601:ILE:CD1	2.06	0.72
3:J:858:VAL:HG11	3:J:872:LEU:HD11	1.71	0.72
5:L:419:PHE:CZ	5:L:427:PHE:HB2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:901:LEU:HA	5:L:563:PHE:CE2	2.23	0.72
1:B:179:PRO:O	1:B:208:ASN:N	2.20	0.72
1:A:223:ILE:HD11	1:B:8:PHE:CE2	2.23	0.72
3:D:111:THR:HG21	3:D:303:VAL:HG21	1.70	0.72
3:D:54:ASP:OD1	3:D:54:ASP:N	2.20	0.72
5:F:235:ILE:HA	5:F:242:HIS:CE1	2.23	0.72
3:J:799:ARG:O	3:J:802:ASP:HB2	1.87	0.72
1:B:136:GLU:CG	1:B:137:ASN:H	2.00	0.72
2:C:802:VAL:HG23	2:C:1096:ILE:O	1.89	0.72
2:C:145:ILE:HD11	2:C:512:SER:CB	2.19	0.72
2:C:557:ARG:HG2	2:C:587:LEU:HB3	1.71	0.72
2:C:4:SER:HB3	2:C:7:GLU:CD	2.10	0.72
3:D:423:LEU:CD1	3:D:468:VAL:HG12	2.18	0.72
3:D:803:VAL:HG23	3:D:1313:SER:HA	1.71	0.72
3:D:842:ARG:CB	3:D:882:VAL:HG11	2.19	0.72
1:G:195:ARG:HG3	1:G:198:LEU:HG	1.70	0.72
3:J:514:THR:CG2	3:J:596:LEU:HB2	2.19	0.72
5:L:466:ILE:HD12	5:L:487:MET:CE	2.20	0.72
2:C:46:GLN:HG3	2:C:47:TYR:O	1.89	0.72
2:C:486:THR:HG23	2:C:487:LEU:N	2.05	0.72
2:C:517:GLN:NE2	2:C:759:SER:HA	2.04	0.72
3:D:1273:ASP:HB2	3:D:1276:GLU:OE1	1.89	0.72
3:D:245:LEU:CD2	3:D:249:LEU:HD12	2.19	0.72
3:D:390:LEU:HD21	3:D:407:VAL:HG11	1.69	0.72
5:F:532:LEU:HD12	5:F:532:LEU:H	1.54	0.72
1:G:218:ARG:HD3	1:H:233:ASP:N	2.05	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:H	1.54	0.72
2:I:339:ASN:OD1	2:I:341:LEU:N	2.22	0.72
5:L:129:GLN:O	5:L:133:SER:N	2.23	0.72
1:B:215:GLU:O	1:B:217:ILE:N	2.23	0.72
3:D:1155:ILE:H	3:D:1155:ILE:HD12	1.55	0.72
3:D:573:THR:HG23	3:D:576:ARG:HD2	1.72	0.72
5:F:383:ASN:HB2	5:F:412:LEU:HD21	1.72	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:N	2.04	0.72
1:G:45:ARG:HH22	2:I:1216:ARG:HA	1.53	0.72
2:I:4:SER:OG	2:I:5:TYR:N	2.23	0.72
3:J:748:ALA:HA	3:J:754:ILE:HA	1.71	0.72
3:J:902:ASP:O	3:J:903:LEU:HD13	1.89	0.72
1:B:9:LEU:HD23	1:B:10:LYS:H	1.55	0.71
1:B:63:GLY:HA3	1:B:71:LYS:HE3	1.71	0.71
2:C:253:PHE:CE1	2:C:255:ILE:HG12	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:593:LYS:HB3	2:C:602:GLU:HG3	1.69	0.71
4:E:15:ASN:O	4:E:17:PHE:N	2.22	0.71
2:I:1116:HIS:O	2:I:1119:MET:HB3	1.90	0.71
2:I:818:VAL:O	2:I:1079:ILE:HD12	1.90	0.71
3:J:1222:ARG:HG2	3:J:1223:LEU:HD22	1.72	0.71
5:L:270:VAL:HA	5:L:273:MET:HE3	1.71	0.71
3:D:302:ALA:O	3:D:305:ALA:HB3	1.90	0.71
3:D:823:THR:C	3:D:835:LEU:HD13	2.10	0.71
3:D:848:VAL:HG12	3:D:858:VAL:HG13	1.69	0.71
5:F:137:TYR:CZ	5:F:139:GLU:HB2	2.24	0.71
2:I:956:ALA:HA	2:I:959:ASP:OD2	1.90	0.71
3:J:1343:GLU:HG3	3:J:1373:ARG:NH2	2.05	0.71
3:J:190:LYS:CD	3:J:235:GLU:HG2	2.20	0.71
2:I:1305:TYR:CE1	3:J:379:PRO:HG3	2.25	0.71
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.20	0.71
3:J:74:LYS:HD2	3:J:87:LYS:NZ	2.04	0.71
1:B:16:ILE:CA	1:B:26:VAL:HG13	2.21	0.71
2:C:74:ARG:NH1	2:C:74:ARG:HB3	2.05	0.71
3:D:1155:ILE:O	3:D:1156:LEU:HD13	1.91	0.71
3:D:697:MET:SD	3:D:741:ALA:HB3	2.31	0.71
5:F:147:GLN:HE22	5:F:150:ARG:NH1	1.87	0.71
1:G:195:ARG:HD2	1:G:196:THR:N	2.04	0.71
1:H:9:LEU:HD23	1:H:10:LYS:N	2.05	0.71
5:L:383:ASN:O	5:L:386:LEU:HB2	1.89	0.71
5:L:546:ASP:OD2	5:L:603:ARG:NH2	2.22	0.71
1:B:182:ARG:HG2	1:B:183:ILE:N	2.04	0.71
2:C:1018:TYR:HE2	2:C:1022:LYS:HD3	1.56	0.71
2:C:178:PRO:HB3	2:C:395:TYR:CZ	2.24	0.71
1:A:152:TYR:CE1	2:C:824:GLN:HG2	2.25	0.71
2:C:95:PRO:HA	2:C:126:GLU:HG2	1.73	0.71
3:D:140:TYR:OH	3:D:312:ARG:NH1	2.23	0.71
3:D:45:ASN:O	3:D:46:TYR:HB3	1.88	0.71
5:F:124:GLU:HA	5:F:127:ILE:HG12	1.71	0.71
2:I:49:LEU:O	2:I:52:ALA:N	2.23	0.71
2:I:738:GLU:HG2	2:I:741:MET:HE3	1.72	0.71
3:J:1170:LYS:C	3:J:1172:LYS:H	1.92	0.71
3:J:1158:GLU:O	3:J:1206:ARG:NH1	2.23	0.71
3:J:808:VAL:O	3:J:810:THR:HG22	1.89	0.71
1:A:43:LEU:HD13	1:A:203:ILE:CD1	2.20	0.71
2:C:816:ILE:O	2:C:1077:SER:N	2.24	0.71
2:C:189:ASP:OD1	2:C:193:ASN:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1323:ALA:HB2	3:D:1331:VAL:HG11	1.70	0.71
3:D:279:LEU:HD12	3:D:295:GLU:CG	2.20	0.71
3:D:426:ALA:CB	3:D:427:PRO:HD3	2.20	0.71
5:F:297:MET:HE1	5:F:330:LEU:HD21	1.72	0.71
5:F:421:TYR:C	5:F:423:ARG:H	1.93	0.71
2:I:839:VAL:HG12	2:I:1049:ILE:CD1	2.20	0.71
2:I:933:VAL:CG2	2:I:1050:VAL:HG12	2.20	0.71
3:J:1221:LEU:HD11	3:J:1304:ARG:O	1.90	0.71
5:L:387:VAL:HA	5:L:390:ILE:CD1	2.19	0.71
1:A:135:ASP:O	1:A:137:ASN:N	2.23	0.71
1:A:224:LEU:HD12	1:A:228:LEU:HD12	1.71	0.71
1:A:38:THR:OG1	1:B:45:ARG:NH1	2.23	0.71
1:B:268:ASN:O	1:B:272:ALA:N	2.17	0.71
2:C:582:ASN:HB3	2:C:585:GLY:N	2.05	0.71
4:E:32:VAL:O	4:E:34:GLY:N	2.23	0.71
1:H:32:GLU:HB2	1:H:35:PHE:CE2	2.25	0.71
2:I:990:ASP:HA	2:I:997:TRP:HZ2	1.52	0.71
3:J:744:ARG:HG3	3:J:744:ARG:O	1.91	0.71
2:C:854:ILE:HG22	2:C:855:PRO:HD2	1.70	0.71
3:D:1135:THR:OG1	3:D:1136:GLY:N	2.21	0.71
3:D:1262:ARG:HG3	3:D:1281:GLU:OE1	1.90	0.71
2:I:1293:VAL:HG13	2:I:1301:ARG:HA	1.71	0.71
2:I:303:ASP:HB3	2:I:306:THR:OG1	1.90	0.71
3:J:527:LEU:H	3:J:550:VAL:CG1	2.02	0.71
3:J:604:MET:O	3:J:607:THR:OG1	2.08	0.71
5:L:245:ALA:O	5:L:249:ILE:HG13	1.91	0.71
1:A:59:VAL:HG21	1:A:85:LEU:HD12	1.72	0.71
2:C:1142:ARG:HH22	2:C:1165:SER:CA	2.02	0.71
2:C:521:LEU:HD13	2:C:525:THR:HB	1.73	0.71
3:D:872:LEU:CD2	3:D:877:VAL:HG11	2.20	0.71
1:H:153:VAL:HG11	1:H:158:ARG:CZ	2.21	0.71
2:I:806:PRO:HD3	2:I:1100:PRO:CG	2.20	0.71
2:I:839:VAL:HA	2:I:1049:ILE:HG12	1.72	0.71
3:J:42:GLU:HG2	5:L:451:ARG:CD	2.19	0.71
3:J:872:LEU:CD2	3:J:877:VAL:HG11	2.20	0.71
5:L:234:THR:HB	5:L:245:ALA:HB1	1.72	0.71
2:C:1328:LYS:O	3:D:245:LEU:HD12	1.90	0.71
3:D:200:GLN:HA	3:D:203:GLU:OE2	1.90	0.71
3:D:268:LEU:HB3	3:D:306:LEU:HD23	1.71	0.71
3:D:317:THR:HA	3:D:324:LEU:CD2	2.20	0.71
3:D:519:ASN:OD1	3:D:709:ARG:HD3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:847:ASP:N	3:D:847:ASP:OD1	2.23	0.71
2:I:359:ARG:CG	2:I:363:LEU:HD12	2.20	0.71
2:I:563:THR:HG23	2:I:564:PRO:CD	2.21	0.71
3:J:1262:ARG:HB3	3:J:1262:ARG:CZ	2.21	0.71
3:J:189:LEU:O	3:J:192:MET:HG2	1.90	0.71
3:J:21:LYS:HZ2	3:J:23:ALA:HB2	1.55	0.71
3:J:622:ASP:HB3	3:J:626:TYR:HE2	1.55	0.71
3:J:430:HIS:CE1	3:J:925:GLU:HG3	2.26	0.71
4:K:40:PRO:HB2	4:K:42:GLU:OE2	1.91	0.71
5:L:561:MET:HG2	5:L:571:TYR:HB2	1.72	0.71
1:A:18:GLN:HA	1:A:24:ALA:HB1	1.73	0.71
1:B:101:THR:H	1:B:116:THR:HG21	1.55	0.71
2:C:1336:ASN:HD22	3:D:29:MET:CE	2.03	0.71
2:C:673:HIS:O	2:C:1109:ILE:HG22	1.90	0.71
2:C:903:ARG:O	2:C:907:GLY:N	2.19	0.71
3:D:185:ILE:HG22	3:D:189:LEU:HD11	1.73	0.71
3:D:368:LEU:HD22	3:D:373:ALA:HB2	1.72	0.71
3:D:37:GLU:HB2	3:D:104:HIS:CE1	2.25	0.71
3:D:800:LEU:O	3:D:803:VAL:N	2.18	0.71
5:F:390:ILE:O	5:F:393:LYS:HB2	1.91	0.71
5:F:608:ARG:CZ	5:F:609:SER:HA	2.21	0.71
2:I:12:ARG:NH2	2:I:698:PRO:O	2.21	0.71
1:B:289:LEU:HB3	1:B:300:LEU:HD23	1.73	0.70
2:C:117:ILE:HD12	2:C:488:MET:HG2	1.73	0.70
1:B:41:ASN:ND2	2:C:1217:THR:HA	2.05	0.70
3:D:510:LEU:HD23	3:D:601:ILE:CD1	2.20	0.70
3:D:72:CYS:N	3:D:88:CYS:SG	2.62	0.70
1:H:18:GLN:HB3	1:H:24:ALA:HB2	1.72	0.70
2:I:461:GLU:O	2:I:464:PHE:HB3	1.91	0.70
2:I:517:GLN:HE21	2:I:759:SER:HB2	1.56	0.70
2:I:838:CYS:SG	2:I:886:LYS:HD3	2.31	0.70
2:I:849:GLU:CB	2:I:851:THR:HG22	2.21	0.70
3:J:702:GLN:HA	3:J:723:TYR:CE2	2.26	0.70
2:C:57:PHE:CD1	2:C:70:TYR:HB2	2.24	0.70
3:D:230:SER:OG	3:D:232:ASN:N	2.20	0.70
3:D:289:ASP:OD1	3:D:289:ASP:N	2.22	0.70
1:G:104:LYS:HG2	1:G:110:VAL:HG22	1.73	0.70
1:H:180:VAL:HG12	1:H:205:MET:SD	2.31	0.70
1:H:59:VAL:O	1:H:171:LEU:HB2	1.90	0.70
2:I:1211:ARG:CB	2:I:1220:GLN:HE21	2.03	0.70
3:J:1157:ALA:HB3	3:J:1207:GLY:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1285:TYR:CE2	3:J:475:GLU:HG2	2.26	0.70
3:J:497:GLU:HB3	3:J:498:PRO:CD	2.20	0.70
3:J:720:ASN:HD21	3:J:722:ILE:HG22	1.56	0.70
3:J:642:ASP:HA	3:J:764:ARG:NH2	2.06	0.70
3:J:826:ILE:CA	3:J:831:VAL:HA	2.21	0.70
3:J:872:LEU:O	3:J:877:VAL:HG12	1.91	0.70
5:L:367:ILE:HD13	5:L:367:ILE:N	2.06	0.70
1:B:16:ILE:HA	1:B:26:VAL:HG13	1.72	0.70
2:C:1149:TYR:CD1	2:C:1159:VAL:HG11	2.24	0.70
2:C:1234:LYS:HE2	2:C:1238:LEU:HD23	1.72	0.70
2:C:726:TYR:HE2	2:C:728:ASP:HB2	1.56	0.70
2:C:836:LEU:HD21	2:C:921:PRO:HG2	1.72	0.70
3:D:1280:VAL:CG2	3:D:1284:ARG:HE	2.03	0.70
5:F:466:ILE:O	5:F:470:MET:N	2.22	0.70
1:G:14:VAL:HG13	1:G:15:ASP:H	1.55	0.70
1:H:9:LEU:HB3	1:H:32:GLU:HG2	1.71	0.70
2:I:1160:ASP:CB	2:I:1162:SER:H	1.97	0.70
2:I:1293:VAL:CG1	2:I:1301:ARG:HA	2.20	0.70
2:I:216:THR:N	2:I:219:GLN:OE1	2.24	0.70
3:J:414:GLU:O	4:K:45:LYS:NZ	2.22	0.70
3:J:476:ALA:O	3:J:480:ALA:N	2.19	0.70
1:B:307:LEU:HD23	1:B:314:LEU:HB2	1.73	0.70
2:C:1164:PHE:O	2:C:1166:ASP:N	2.23	0.70
2:C:516:ASP:O	2:C:522:SER:OG	2.08	0.70
3:D:1183:SER:C	3:D:1185:PRO:HD3	2.11	0.70
3:D:415:VAL:HG23	3:D:416:ILE:HD13	1.72	0.70
5:F:267:ASP:OD1	5:F:267:ASP:N	2.25	0.70
3:J:452:LEU:HD11	3:J:625:MET:HB2	1.73	0.70
3:J:505:ASP:HB3	3:J:629:PHE:HE1	1.56	0.70
5:L:432:THR:O	5:L:436:ARG:N	2.23	0.70
2:C:1312:ASN:HD21	2:C:1314:GLN:NE2	1.78	0.70
3:D:279:LEU:HB2	3:D:295:GLU:HG2	1.72	0.70
3:D:514:THR:HB	3:D:596:LEU:HD23	1.74	0.70
3:D:803:VAL:HG11	3:D:1309:ILE:HG22	1.72	0.70
1:G:35:PHE:O	1:G:39:LEU:HG	1.91	0.70
2:I:1035:LYS:HA	2:I:1038:GLN:OE1	1.90	0.70
2:I:738:GLU:HG2	2:I:741:MET:CE	2.20	0.70
2:I:901:LEU:HG	2:I:905:ILE:HD11	1.72	0.70
3:J:270:ARG:O	3:J:274:ASN:ND2	2.19	0.70
3:J:352:ARG:HB2	3:J:466:MET:O	1.92	0.70
1:A:145:LYS:NZ	1:A:147:GLN:OE1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:92:TYR:CE2	2:C:129:LEU:HB2	2.27	0.70
2:C:555:TYR:OH	2:C:654:ASP:OD1	2.09	0.70
3:D:185:ILE:O	3:D:189:LEU:HG	1.91	0.70
3:D:382:TYR:CE1	3:D:401:VAL:HG21	2.25	0.70
2:I:673:HIS:HB3	2:I:1109:ILE:CG2	2.22	0.70
3:J:294:ASN:HB2	5:L:101:TYR:HD1	1.56	0.70
1:B:286:GLU:HA	1:B:289:LEU:HD12	1.73	0.70
2:C:1143:GLU:OE1	2:C:1147:ARG:HD3	1.90	0.70
2:C:698:PRO:HB3	2:C:1231:TYR:CE2	2.26	0.70
2:C:618:GLN:HG3	3:D:770:LEU:HD21	1.74	0.70
2:C:878:THR:HA	2:C:925:SER:HB3	1.73	0.70
3:D:183:GLU:O	3:D:187:ALA:N	2.17	0.70
3:D:824:PRO:HB3	3:D:835:LEU:HB2	1.74	0.70
3:D:813:ASP:HB2	3:D:897:HIS:ND1	2.06	0.70
4:E:86:ILE:HG22	4:E:89:GLY:H	1.57	0.70
1:G:190:ALA:HB2	1:G:200:LYS:CB	2.21	0.70
1:G:228:LEU:CD1	1:H:221:ALA:HB1	2.21	0.70
1:H:61:ILE:HG23	1:H:142:MET:HE2	1.73	0.70
2:I:522:SER:HB2	2:I:687:ARG:HB3	1.74	0.70
3:D:1176:VAL:HG22	3:D:1187:GLU:HB3	1.74	0.70
3:D:1257:VAL:HA	3:D:1260:MET:HG3	1.74	0.70
3:D:311:ARG:NH2	3:D:1329:THR:HG21	2.06	0.70
5:F:438:ALA:O	5:F:442:SER:N	2.24	0.70
2:I:1119:MET:HB2	2:I:1228:GLY:HA2	1.74	0.70
2:I:1247:SER:HB3	3:J:375:GLU:O	1.92	0.70
2:I:475:VAL:HG12	2:I:476:LYS:N	2.06	0.70
2:I:1274:GLU:HA	3:J:428:THR:HG21	1.72	0.70
4:K:66:VAL:HA	4:K:69:ARG:NH2	2.06	0.70
5:L:525:ASP:OD1	5:L:527:THR:HG22	1.92	0.70
1:A:12:ARG:O	1:A:30:PRO:HD3	1.91	0.70
2:C:745:GLU:CB	2:C:1017:GLN:HB3	2.21	0.70
2:C:115:LYS:HE2	2:C:116:ASP:O	1.91	0.70
2:C:285:ILE:HD11	2:C:287:VAL:HG12	1.74	0.70
2:C:812:PHE:CD2	3:D:451:PRO:HB3	2.26	0.70
1:A:152:TYR:CE1	2:C:824:GLN:HA	2.21	0.70
3:D:1183:SER:N	3:J:206:ASN:HD21	1.90	0.70
3:D:326:SER:O	3:D:329:ASP:N	2.23	0.70
2:C:1105:SER:HB2	3:D:731:ARG:HG2	1.74	0.70
1:H:30:PRO:C	1:H:31:LEU:HD22	2.12	0.70
2:I:347:ILE:O	2:I:350:THR:N	2.24	0.70
3:J:705:THR:OG1	3:J:718:SER:HA	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:740:LEU:O	3:J:764:ARG:HB2	1.92	0.70
1:A:73:GLY:O	1:A:134:THR:HG22	1.90	0.70
1:B:151:GLY:H	1:B:177:TYR:HB2	1.57	0.70
2:C:363:LEU:HD22	2:C:382:GLU:HA	1.74	0.70
2:C:500:ALA:O	2:C:504:GLU:N	2.21	0.70
2:C:732:ILE:HG21	2:C:783:LEU:CD1	2.22	0.70
3:D:795:TYR:HE2	3:D:799:ARG:HD3	1.56	0.70
3:D:854:ALA:HB2	3:J:1372:ARG:HG3	1.72	0.70
3:D:872:LEU:O	3:D:877:VAL:HG12	1.92	0.70
3:D:872:LEU:HD22	3:D:877:VAL:CG1	2.19	0.70
4:E:31:GLN:O	4:E:33:GLY:N	2.25	0.70
2:I:1042:LEU:HB2	2:I:1046:VAL:CG2	2.21	0.70
2:I:105:TYR:HA	2:I:112:GLY:O	1.91	0.70
2:C:1246:ARG:HD2	2:C:1265:PHE:O	1.91	0.69
2:C:1325:VAL:O	2:C:1328:LYS:N	2.25	0.69
2:C:227:LYS:NZ	2:C:298:ALA:HB1	2.07	0.69
2:C:269:ILE:HD12	2:C:269:ILE:H	1.56	0.69
2:C:420:LEU:HD23	2:C:420:LEU:N	2.07	0.69
3:D:1274:PHE:CE2	3:D:1275:LEU:HD23	2.27	0.69
3:D:172:PHE:CD2	3:D:172:PHE:N	2.58	0.69
3:D:528:THR:HG23	3:D:532:GLU:HB3	1.74	0.69
3:D:836:ARG:HE	3:D:869:CYS:CB	2.01	0.69
4:E:67:ARG:NH1	4:E:71:GLU:OE2	2.25	0.69
1:G:12:ARG:HG3	1:H:230:ALA:CB	2.23	0.69
1:G:151:GLY:O	1:G:177:TYR:N	2.25	0.69
3:J:235:GLU:H	3:J:235:GLU:CD	1.96	0.69
3:J:26:SER:HG	3:J:29:MET:H	1.39	0.69
3:J:931:THR:HB	3:J:1137:GLY:HA2	1.73	0.69
5:L:406:GLN:HA	5:L:406:GLN:NE2	1.97	0.69
5:L:436:ARG:O	5:L:440:THR:HG22	1.92	0.69
1:B:94:GLY:HA2	1:B:277:TYR:CZ	2.27	0.69
2:C:679:ALA:O	2:C:683:ALA:N	2.24	0.69
3:D:108:ALA:HB1	3:D:279:LEU:HD22	1.73	0.69
2:I:615:VAL:HG21	2:I:645:PHE:CD2	2.26	0.69
2:I:667:LEU:HD21	2:I:704:MET:HB2	1.74	0.69
3:J:45:ASN:HB3	3:J:48:THR:O	1.92	0.69
3:J:699:ASP:HA	3:J:702:GLN:NE2	2.05	0.69
1:A:107:ILE:HD11	1:A:136:GLU:N	2.06	0.69
1:A:165:GLU:C	1:A:167:PRO:HD2	2.12	0.69
1:A:191:ARG:HH12	1:A:198:LEU:N	1.89	0.69
1:B:37:HIS:HA	1:B:185:TYR:HE1	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1257:GLN:HB3	2:C:1258:PRO:HD2	1.72	0.69
2:C:675:ASP:HB2	3:D:763:PHE:CZ	2.27	0.69
3:J:514:THR:O	3:J:514:THR:OG1	2.07	0.69
3:J:572:THR:HG23	3:J:573:THR:N	2.07	0.69
3:J:620:PHE:CE1	3:J:624:ILE:HD11	2.27	0.69
5:L:231:THR:O	5:L:234:THR:OG1	2.09	0.69
2:C:819:SER:OG	2:C:821:ARG:HB3	1.93	0.69
3:D:172:PHE:N	3:D:172:PHE:HD2	1.90	0.69
3:D:382:TYR:HE1	3:D:401:VAL:CG2	2.04	0.69
3:D:776:THR:HG22	3:D:777:HIS:N	2.07	0.69
5:F:561:MET:O	5:F:571:TYR:HB2	1.92	0.69
5:F:540:LEU:CD1	5:F:607:LEU:HD22	2.21	0.69
2:I:27:LEU:O	2:I:528:ARG:NH1	2.25	0.69
2:I:736:VAL:HG23	2:I:748:ILE:HG22	1.74	0.69
3:J:520:ALA:CB	3:J:546:ALA:HB2	2.17	0.69
3:J:847:ASP:OD2	3:J:860:ARG:HG2	1.93	0.69
5:L:227:GLN:HG3	5:L:252:LEU:HA	1.74	0.69
1:B:278:ILE:O	1:B:280:ASP:N	2.22	0.69
1:B:289:LEU:HD23	1:B:295:LEU:HD11	1.74	0.69
1:B:76:GLU:HA	1:B:80:GLU:HG2	1.73	0.69
2:C:1160:ASP:CG	2:C:1161:LEU:HA	2.13	0.69
3:D:795:TYR:HA	3:D:798:ARG:NH1	2.06	0.69
5:F:394:TYR:OH	5:F:436:ARG:NH1	2.24	0.69
2:C:490:GLN:NE2	5:F:472:GLN:HB3	2.08	0.69
1:G:187:VAL:HG12	1:G:201:LEU:HD22	1.74	0.69
1:H:11:PRO:HG3	1:H:31:LEU:HD11	1.74	0.69
2:I:1312:ASN:OD1	2:I:1314:GLN:HG3	1.92	0.69
2:I:734:ILE:O	2:I:748:ILE:HB	1.92	0.69
2:I:942:ASP:O	2:I:946:LEU:HD12	1.92	0.69
3:J:356:THR:CG2	3:J:446:ALA:HB1	2.22	0.69
1:A:191:ARG:NH1	1:A:198:LEU:H	1.89	0.69
2:C:1062:PRO:N	2:C:1076:ILE:HD11	2.07	0.69
3:D:475:GLU:N	3:D:475:GLU:OE1	2.22	0.69
3:D:814:CYS:H	3:D:895:CYS:CB	2.06	0.69
5:F:129:GLN:O	5:F:133:SER:HB2	1.92	0.69
1:H:101:THR:HA	1:H:143:ARG:HG2	1.73	0.69
2:I:1066:MET:HE1	2:I:1076:ILE:HD12	1.75	0.69
2:I:53:PHE:HE2	2:I:73:TYR:HB3	1.56	0.69
3:J:514:THR:HA	3:J:576:ARG:HG2	1.73	0.69
3:J:563:LEU:H	3:J:563:LEU:HD12	1.58	0.69
3:J:827:GLU:O	3:J:829:GLY:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:850:LYS:HB3	3:J:851:PRO:CD	2.22	0.69
4:K:60:ASN:O	4:K:64:LEU:HG	1.91	0.69
5:L:466:ILE:HD12	5:L:487:MET:HE1	1.74	0.69
1:B:263:THR:HG22	1:B:302:GLU:OE2	1.93	0.69
2:C:1304:MET:CE	3:D:472:LEU:HB3	2.21	0.69
1:A:77:ASP:OD2	2:C:755:LYS:HE3	1.93	0.69
3:D:1146:GLU:HA	3:D:1146:GLU:OE2	1.90	0.69
2:C:1281:TYR:CD2	3:D:431:ARG:HD2	2.27	0.69
3:D:701:LEU:HD11	3:D:723:TYR:HB2	1.73	0.69
5:F:399:LEU:HD12	5:F:400:GLN:N	2.08	0.69
2:I:1013:GLN:O	2:I:1017:GLN:HG2	1.92	0.69
2:I:860:ALA:O	2:I:863:SER:OG	2.08	0.69
3:J:382:TYR:HB3	3:J:394:ILE:HD13	1.73	0.69
3:J:382:TYR:CE1	3:J:398:LYS:HA	2.27	0.69
1:A:60:GLU:HG2	1:A:143:ARG:HH21	1.56	0.69
1:B:33:ARG:CG	1:B:33:ARG:HH11	2.02	0.69
1:B:89:ALA:CB	1:B:124:VAL:H	2.05	0.69
2:C:1184:THR:HG23	2:C:1190:ALA:H	1.57	0.69
3:D:1226:VAL:O	3:D:1230:THR:HG22	1.93	0.69
3:D:405:GLU:O	3:D:408:VAL:HG13	1.93	0.69
3:D:530:PRO:HA	3:D:533:ALA:CB	2.22	0.69
3:D:611:ILE:HG22	3:D:612:LEU:CD1	2.22	0.69
5:F:119:ILE:O	5:F:122:ARG:N	2.26	0.69
1:H:33:ARG:HG3	1:H:197:ASP:OD2	1.92	0.69
2:I:1254:VAL:HG22	2:I:1255:THR:HG23	1.73	0.69
2:I:932:GLN:HB3	2:I:934:PHE:HE2	1.56	0.69
3:J:308:ASP:OD2	3:J:311:ARG:NE	2.23	0.69
1:A:166:ARG:HD2	1:A:167:PRO:N	2.07	0.69
2:C:94:ALA:HB2	2:C:129:LEU:HD11	1.75	0.69
3:D:18:ASP:HB3	3:D:1369:ARG:HH12	1.58	0.69
3:D:528:THR:HG22	3:D:532:GLU:OE1	1.93	0.69
2:I:1155:VAL:HG23	2:I:1157:GLN:N	2.08	0.69
2:I:568:ASN:HB2	2:I:571:LEU:HB2	1.73	0.69
2:I:674:ASP:O	3:J:772:TYR:OH	2.08	0.69
3:J:268:LEU:HD11	3:J:324:LEU:CD1	2.17	0.69
3:J:35:PHE:CD1	3:J:101:ARG:HD3	2.28	0.69
1:A:103:ASN:HD21	1:A:141:SER:HB2	1.57	0.69
1:A:156:SER:O	1:A:158:ARG:N	2.26	0.69
1:B:44:ARG:HB3	1:B:44:ARG:CZ	2.21	0.69
2:C:478:ARG:HH12	2:C:482:GLY:HA2	1.57	0.69
2:C:519:ASN:ND2	2:C:689:ALA:HB3	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:621:SER:HB3	2:C:634:VAL:CG2	2.23	0.69
3:D:825:VAL:HG13	3:D:833:GLU:O	1.93	0.69
3:D:848:VAL:HG11	3:D:858:VAL:HG13	1.73	0.69
5:F:388:ILE:O	5:F:392:LYS:N	2.20	0.69
2:I:898:GLU:OE1	2:I:898:GLU:N	2.17	0.69
3:J:1241:TYR:HB3	3:J:1246:VAL:O	1.91	0.69
3:J:268:LEU:CD2	3:J:306:LEU:HD23	2.22	0.69
5:L:498:LEU:H	5:L:498:LEU:HD22	1.56	0.69
1:B:289:LEU:HB3	1:B:300:LEU:HD21	1.72	0.69
3:D:519:ASN:CB	3:D:709:ARG:HB2	2.23	0.69
3:D:883:ARG:NH2	3:D:895:CYS:SG	2.66	0.69
2:I:669:PRO:HB2	2:I:1184:THR:HB	1.74	0.69
1:G:134:THR:HA	2:I:773:LEU:HD11	1.75	0.69
3:J:34:SER:HB2	3:J:104:HIS:HB3	1.73	0.69
3:J:423:LEU:CD1	3:J:468:VAL:HG12	2.19	0.69
3:J:825:VAL:CG1	3:J:833:GLU:HB3	2.22	0.69
1:B:112:ALA:CB	1:B:126:PRO:HA	2.12	0.68
1:B:286:GLU:OE2	1:B:300:LEU:HD11	1.93	0.68
2:C:1191:LYS:HZ3	2:C:1193:ALA:H	1.39	0.68
3:D:271:ARG:HD3	5:F:400:GLN:HE22	1.58	0.68
3:J:355:ILE:HD13	3:J:466:MET:HG3	1.74	0.68
3:J:850:LYS:HE2	3:J:855:ASP:HB2	1.74	0.68
2:C:1005:GLU:HG2	2:C:1006:GLU:OE1	1.93	0.68
2:C:421:SER:H	2:C:424:ASP:HB2	1.58	0.68
3:D:1157:ALA:HB3	3:D:1207:GLY:N	2.08	0.68
3:D:378:LYS:HB3	3:D:379:PRO:HD3	1.75	0.68
2:I:1023:HIS:O	2:I:1027:LYS:HG2	1.93	0.68
2:I:657:THR:OG1	2:I:1187:PHE:HB2	1.92	0.68
2:I:818:VAL:CG2	2:I:1096:ILE:HG12	2.23	0.68
3:J:1263:LYS:HE2	3:J:1279:GLN:HE22	1.58	0.68
3:J:857:LEU:CD1	3:J:872:LEU:HD21	2.23	0.68
1:A:61:ILE:CG2	1:A:64:VAL:HG21	2.23	0.68
2:C:22:LEU:HD22	2:C:23:ASP:N	2.09	0.68
2:C:655:VAL:N	2:C:659:GLN:OE1	2.25	0.68
3:D:659:ALA:O	3:D:661:VAL:N	2.27	0.68
3:D:842:ARG:NH2	3:D:884:SER:HB2	2.08	0.68
4:E:88:GLU:HA	4:E:88:GLU:OE2	1.93	0.68
2:I:386:GLU:HA	2:I:390:PHE:CD2	2.27	0.68
3:J:156:ARG:HH12	3:J:157:GLN:HE21	1.39	0.68
1:A:11:PRO:HD3	1:B:227:GLN:OE1	1.92	0.68
1:A:89:ALA:O	1:A:124:VAL:HG12	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:37:HIS:CD2	1:A:187:VAL:HG21	2.29	0.68
1:A:57:THR:HG22	1:A:58:GLU:HG2	1.76	0.68
1:A:57:THR:HG23	1:A:158:ARG:CZ	2.23	0.68
2:C:1338:GLU:O	3:D:20:ILE:HG23	1.94	0.68
2:C:593:LYS:HA	2:C:652:TYR:CE2	2.27	0.68
2:C:617:ALA:HB3	2:C:653:MET:HB2	1.73	0.68
3:D:623:GLN:O	3:D:627:THR:HG22	1.94	0.68
3:D:660:GLU:CB	3:D:685:ILE:HD12	2.23	0.68
3:D:647:PRO:CG	3:D:697:MET:HB3	2.16	0.68
1:G:191:ARG:NH1	1:G:197:ASP:HA	2.08	0.68
1:H:181:GLU:HB2	1:H:206:GLU:O	1.92	0.68
2:I:798:GLN:CB	2:I:828:PHE:HE1	1.98	0.68
2:I:976:ARG:HD2	2:I:989:LEU:HD23	1.76	0.68
3:J:514:THR:CB	3:J:596:LEU:HD23	2.23	0.68
3:J:853:THR:HG22	3:J:854:ALA:H	1.59	0.68
3:J:915:ILE:HA	3:J:918:ILE:CG2	2.23	0.68
3:J:431:ARG:N	3:J:921:GLN:OE1	2.26	0.68
2:C:360:LEU:O	2:C:364:VAL:HG23	1.94	0.68
2:C:529:ARG:C	2:C:530:ILE:HG12	2.13	0.68
2:C:992:LEU:H	2:C:992:LEU:HD23	1.56	0.68
3:D:1238:GLN:CB	3:D:1242:ARG:HH21	2.07	0.68
3:D:613:GLY:O	3:D:616:PRO:HD2	1.94	0.68
2:I:1210:ILE:HG22	2:I:1211:ARG:N	2.09	0.68
2:C:979:LEU:HD11	2:C:1011:LEU:HD11	1.74	0.68
2:C:1115:THR:HG22	2:C:1228:GLY:HA3	1.74	0.68
3:D:212:THR:O	3:D:215:LYS:HE2	1.93	0.68
3:D:322:ARG:HG3	3:D:323:PRO:HD2	1.74	0.68
3:D:362:ARG:H	3:D:365:GLN:NE2	1.89	0.68
3:J:490:ILE:HG12	3:J:500:ILE:CG1	2.24	0.68
5:L:532:LEU:HD13	5:L:532:LEU:O	1.93	0.68
1:A:57:THR:HG23	1:A:158:ARG:HH12	1.59	0.68
2:C:68:LEU:HD12	2:C:101:ARG:O	1.94	0.68
2:C:131:THR:OG1	2:C:135:THR:O	2.12	0.68
3:D:1179:PRO:HD2	3:D:1184:ASP:CA	2.23	0.68
3:D:45:ASN:HA	3:D:52:GLU:OE2	1.93	0.68
5:F:387:VAL:O	5:F:390:ILE:HG23	1.94	0.68
1:H:67:GLU:O	1:H:78:ILE:HB	1.93	0.68
2:I:972:PHE:CE2	2:I:998:LEU:HD11	2.27	0.68
3:J:646:ILE:HD12	3:J:762:ASN:HD21	1.59	0.68
1:A:208:ASN:OD1	1:A:210:THR:HG23	1.94	0.68
2:C:1312:ASN:ND2	2:C:1314:GLN:HE21	1.79	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:243:PRO:HB2	2:C:278:GLU:HG2	1.73	0.68
2:C:145:ILE:CG2	2:C:456:VAL:HG22	2.20	0.68
2:C:590:PRO:HG3	2:C:605:TYR:CE1	2.29	0.68
2:C:616:ILE:HG22	2:C:617:ALA:O	1.94	0.68
2:C:617:ALA:HB3	2:C:653:MET:HA	1.76	0.68
2:C:520:PRO:HG3	2:C:714:VAL:HG11	1.76	0.68
2:C:94:ALA:CB	2:C:129:LEU:HD11	2.24	0.68
3:D:520:ALA:O	3:D:522:GLY:N	2.26	0.68
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.74	0.68
5:F:228:TYR:HA	5:F:252:LEU:HD22	1.76	0.68
5:F:479:THR:O	5:F:482:GLU:N	2.27	0.68
5:F:535:ALA:O	5:F:538:GLU:HB3	1.93	0.68
1:G:191:ARG:CZ	1:G:197:ASP:HA	2.24	0.68
2:I:510:GLN:CD	2:I:534:GLY:HA2	2.14	0.68
2:I:590:PRO:HG3	2:I:605:TYR:CZ	2.28	0.68
3:J:1283:SER:OG	3:J:1284:ARG:N	2.25	0.68
2:I:841:ARG:NH1	3:J:256:ASP:HB3	2.08	0.68
3:J:252:LEU:CD2	3:J:262:THR:HB	2.23	0.68
5:L:264:LYS:HD2	5:L:264:LYS:N	2.09	0.68
2:C:1174:GLU:OE2	2:C:1177:ARG:HD2	1.94	0.68
3:D:1270:GLY:HA3	3:D:1297:LYS:O	1.94	0.68
3:D:148:GLU:OE2	3:D:156:ARG:NE	2.27	0.68
3:D:190:LYS:HD3	3:D:235:GLU:HG2	1.75	0.68
5:F:127:ILE:O	5:F:131:GLN:N	2.19	0.68
1:G:231:PHE:CB	1:H:218:ARG:HB3	2.24	0.68
1:G:218:ARG:HH11	1:H:233:ASP:H	1.42	0.68
2:I:145:ILE:HG21	2:I:456:VAL:HG22	1.75	0.68
2:I:758:ARG:HB2	2:I:833:ILE:HG22	1.75	0.68
1:B:140:ILE:HD12	1:B:141:SER:N	2.09	0.68
2:C:698:PRO:HB3	2:C:1231:TYR:CD2	2.29	0.68
2:C:615:VAL:HG13	2:C:651:ASP:H	1.58	0.68
2:C:70:TYR:OH	2:C:72:SER:HA	1.94	0.68
2:C:813:GLU:HG3	3:D:460:ASP:HA	1.76	0.68
3:D:265:LEU:O	3:D:269:TYR:N	2.20	0.68
3:D:766:GLY:O	3:D:767:LEU:HD12	1.94	0.68
5:F:283:GLN:NE2	5:F:343:LYS:HD2	2.09	0.68
5:F:346:GLN:HA	5:F:349:GLU:OE1	1.94	0.68
1:G:187:VAL:CG1	1:G:201:LEU:HD13	2.24	0.68
1:G:207:THR:HG21	1:G:211:ILE:HG22	1.74	0.68
2:I:198:ILE:HD12	2:I:369:MET:HE3	1.76	0.68
3:J:1356:LEU:HD23	3:J:1357:ILE:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:306:LEU:HB3	3:J:307:LEU:HD23	1.74	0.68
1:A:76:GLU:OE2	1:A:76:GLU:N	2.27	0.67
1:B:151:GLY:O	1:B:177:TYR:N	2.27	0.67
1:B:61:ILE:HG22	1:B:63:GLY:H	1.59	0.67
3:D:127:LEU:O	3:D:127:LEU:HD12	1.94	0.67
3:D:737:ILE:O	3:D:740:LEU:N	2.17	0.67
5:F:460:ILE:O	5:F:463:LEU:N	2.27	0.67
5:F:562:ARG:NH1	5:F:591:GLU:OE2	2.27	0.67
1:G:13:LEU:H	1:G:13:LEU:HD23	1.57	0.67
1:G:228:LEU:HD11	1:H:221:ALA:HB1	1.75	0.67
2:I:633:LEU:N	2:I:633:LEU:HD23	2.10	0.67
3:J:126:LEU:HD12	3:J:127:LEU:N	2.09	0.67
3:J:580:TRP:CZ3	3:J:583:VAL:HG11	2.28	0.67
5:L:139:GLU:OE1	5:L:142:THR:HG21	1.93	0.67
1:A:103:ASN:ND2	1:A:141:SER:HB2	2.08	0.67
1:A:166:ARG:N	1:A:167:PRO:HD2	2.08	0.67
2:C:810:TYR:HE1	2:C:1078:LYS:CD	2.03	0.67
2:C:815:SER:HB3	3:D:461:PHE:HD1	1.58	0.67
2:C:957:LYS:O	2:C:961:SER:OG	2.11	0.67
3:D:203:GLU:O	3:D:206:ASN:N	2.27	0.67
3:D:627:THR:HG23	3:D:628:GLY:N	2.09	0.67
3:D:903:LEU:HB3	3:D:905:ARG:H	1.58	0.67
5:F:136:GLU:OE2	5:F:364:ARG:NH2	2.28	0.67
5:F:295:CYS:HA	5:F:329:LYS:HB3	1.76	0.67
3:J:495:ASN:HD22	3:J:497:GLU:HB2	1.58	0.67
3:J:492:SER:HB3	3:J:499:ILE:HD13	1.74	0.67
5:L:459:THR:O	5:L:463:LEU:HD13	1.94	0.67
5:L:548:LEU:HA	5:L:551:LEU:HD12	1.76	0.67
3:D:1171:GLY:HA2	3:D:1193:TRP:CH2	2.29	0.67
1:B:191:ARG:NH2	3:D:410:ASP:OD2	2.27	0.67
3:D:556:GLU:O	3:D:564:VAL:HB	1.94	0.67
5:F:113:ARG:O	5:F:116:GLU:HB2	1.94	0.67
1:G:151:GLY:N	1:G:177:TYR:HB2	2.08	0.67
1:G:44:ARG:HG3	1:G:183:ILE:CG2	2.23	0.67
2:I:161:LYS:NZ	2:I:161:LYS:H	1.92	0.67
3:J:1365:TYR:O	3:J:1368:ASP:HB3	1.94	0.67
3:J:260:PHE:HB3	5:L:504:PRO:HG3	1.75	0.67
2:I:1308:ILE:HG23	3:J:380:PHE:CE2	2.30	0.67
3:J:460:ASP:O	3:J:461:PHE:HD2	1.77	0.67
2:C:215:TYR:HE2	2:C:422:LYS:HD2	1.58	0.67
2:C:509:SER:O	2:C:511:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:995:ASP:OD1	2:C:996:ARG:NH2	2.27	0.67
3:D:1313:SER:O	3:D:1315:ALA:N	2.27	0.67
3:D:1333:THR:O	3:D:1337:VAL:HG13	1.95	0.67
3:D:317:THR:HA	3:D:324:LEU:HG	1.77	0.67
3:D:653:ILE:O	3:D:656:GLU:N	2.27	0.67
3:D:667:GLN:CA	3:D:672:LEU:HD13	2.23	0.67
5:F:320:ILE:HG21	5:F:331:HIS:CE1	2.28	0.67
2:I:1106:ARG:O	2:I:1108:ASN:ND2	2.27	0.67
2:I:74:ARG:NH1	2:I:97:ARG:HB2	2.09	0.67
2:I:854:ILE:CG2	2:I:855:PRO:HD2	2.24	0.67
3:J:260:PHE:HB3	5:L:504:PRO:CG	2.24	0.67
3:J:391:ALA:HB2	3:J:400:MET:SD	2.35	0.67
5:L:354:THR:O	5:L:358:VAL:HG13	1.93	0.67
1:B:62:ASP:OD2	1:B:140:ILE:HD13	1.94	0.67
2:C:591:TYR:OH	2:C:637:ARG:NH2	2.27	0.67
2:C:736:VAL:CG2	2:C:748:ILE:HA	2.23	0.67
2:C:974:ARG:O	2:C:978:VAL:HG23	1.94	0.67
2:C:812:PHE:CE2	3:D:451:PRO:HB3	2.29	0.67
3:D:725:MET:O	3:D:728:SER:OG	2.12	0.67
1:G:73:GLY:O	1:G:134:THR:HG22	1.93	0.67
1:H:140:ILE:HD11	1:H:142:MET:HE3	1.76	0.67
2:I:388:LEU:HB3	2:I:389:PHE:CD2	2.30	0.67
2:I:487:LEU:HD23	2:I:487:LEU:O	1.93	0.67
3:J:1162:ILE:HG13	3:J:1163:VAL:N	2.09	0.67
3:J:298:MET:O	3:J:301:GLU:HB3	1.94	0.67
2:I:1280:ALA:HB3	3:J:431:ARG:CB	2.23	0.67
2:I:1277:ALA:HA	3:J:431:ARG:HA	1.75	0.67
1:B:285:THR:HG23	1:B:287:VAL:HB	1.76	0.67
1:B:37:HIS:HA	1:B:185:TYR:CE1	2.29	0.67
1:B:98:VAL:HG13	1:B:99:ILE:N	2.09	0.67
2:C:918:LEU:O	2:C:918:LEU:HD12	1.93	0.67
3:D:279:LEU:C	3:D:279:LEU:HD23	2.14	0.67
5:F:295:CYS:HB3	5:F:329:LYS:HB2	1.77	0.67
1:G:191:ARG:HH12	1:G:197:ASP:HA	1.60	0.67
1:H:153:VAL:CG1	1:H:158:ARG:HD3	2.24	0.67
2:I:1124:ILE:HD13	2:I:1202:GLY:HA2	1.75	0.67
2:I:149:LEU:HD12	2:I:452:ARG:O	1.95	0.67
2:I:242:VAL:HB	2:I:245:ARG:HD2	1.76	0.67
3:J:120:LEU:CB	3:J:121:PRO:HD3	2.16	0.67
3:J:268:LEU:O	3:J:271:ARG:HB3	1.94	0.67
3:J:537:TYR:HE2	3:J:631:TYR:CE1	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:498:PRO:HG2	3:J:602:SER:OG	1.95	0.67
2:I:1192:GLU:OE2	3:J:764:ARG:NH1	2.27	0.67
1:A:171:LEU:HD22	1:A:171:LEU:H	1.59	0.67
1:A:91:ARG:HD3	1:A:210:THR:O	1.94	0.67
2:C:1293:VAL:HG13	2:C:1301:ARG:CA	2.23	0.67
2:C:615:VAL:HG11	2:C:649:GLN:O	1.95	0.67
2:C:901:LEU:HD11	2:C:905:ILE:HD11	1.77	0.67
3:D:1352:ILE:HD12	8:D:2004:4C4:C7	2.25	0.67
3:D:796:LEU:HD11	3:D:800:LEU:HD11	1.76	0.67
4:E:56:GLU:CB	4:E:58:LEU:HD13	2.25	0.67
1:G:11:PRO:HB3	1:G:31:LEU:HD23	1.76	0.67
1:H:197:ASP:C	1:H:198:LEU:HD22	2.14	0.67
2:I:1063:GLY:O	3:J:354:VAL:HG11	1.94	0.67
2:I:615:VAL:CG1	2:I:650:VAL:HA	2.24	0.67
2:I:981:ALA:HB1	2:I:1007:LYS:NZ	2.10	0.67
3:J:1163:VAL:CG2	3:J:1175:LEU:HD11	2.25	0.67
3:J:194:LEU:HD22	3:J:224:LEU:CD2	2.24	0.67
4:K:3:ARG:HD3	4:K:5:THR:O	1.95	0.67
1:B:92:VAL:CG1	1:B:95:LYS:HB3	2.25	0.67
2:C:1223:ARG:HB3	2:C:1223:ARG:HH11	1.60	0.67
3:D:152:THR:HB	3:D:172:PHE:CE1	2.29	0.67
3:D:71:LEU:HB2	3:D:90:VAL:HG21	1.75	0.67
3:D:382:TYR:HE2	5:F:532:LEU:HD23	1.59	0.67
1:G:218:ARG:NH1	1:H:231:PHE:O	2.28	0.67
1:H:85:LEU:O	1:H:88:LEU:N	2.24	0.67
2:I:98:VAL:O	2:I:121:GLU:HA	1.94	0.67
2:I:870:ILE:HG22	2:I:944:ARG:HH11	1.60	0.67
3:J:147:ILE:HG13	3:J:177:ASP:HB3	1.75	0.67
3:J:311:ARG:NH2	3:J:1329:THR:HG21	2.10	0.67
3:J:785:ASP:HA	3:J:788:LEU:HD23	1.75	0.67
3:J:867:GLN:O	3:J:870:ASP:N	2.28	0.67
1:A:162:GLU:HG3	1:A:165:GLU:CG	2.20	0.67
1:A:12:ARG:N	1:A:30:PRO:HG2	2.10	0.67
1:B:100:LEU:HD23	1:B:115:ILE:CG2	2.24	0.67
1:B:109:PRO:HB3	1:B:132:HIS:CD2	2.29	0.67
2:C:256:GLU:OE2	2:C:261:VAL:HG22	1.95	0.67
2:C:559:CYS:HG	2:C:662:SER:HG	0.68	0.67
2:C:665:ALA:O	2:C:667:LEU:N	2.28	0.67
3:D:572:THR:HG23	3:D:573:THR:N	2.09	0.67
5:F:275:VAL:HA	5:F:278:ASP:OD2	1.93	0.67
5:F:514:ASP:O	5:F:515:GLU:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:246:LEU:HB3	2:I:269:ILE:HG21	1.75	0.67
3:J:275:ARG:NH1	3:J:298:MET:HB3	2.10	0.67
3:J:432:LEU:HD22	3:J:489:ASN:HB3	1.77	0.67
3:J:698:MET:O	3:J:702:GLN:HB2	1.95	0.67
4:K:44:ASP:HB2	4:K:49:ILE:CG1	2.25	0.67
5:L:483:LEU:HD21	5:L:487:MET:HE3	1.77	0.67
1:A:73:GLY:HA2	2:C:726:TYR:OH	1.93	0.67
2:C:1253:LEU:C	2:C:1253:LEU:HD23	2.16	0.67
2:C:878:THR:O	2:C:920:VAL:HG11	1.95	0.67
3:D:97:VAL:HG11	3:D:101:ARG:NH2	2.10	0.67
3:D:892:PHE:HZ	3:D:1282:TYR:HE1	1.40	0.67
3:D:268:LEU:HD22	3:D:306:LEU:CA	2.23	0.67
2:C:1246:ARG:NH2	3:D:348:ASP:OD1	2.28	0.67
3:D:42:GLU:OE1	3:D:42:GLU:N	2.27	0.67
3:D:79:LYS:HE3	3:D:80:HIS:CA	2.25	0.67
1:G:169:GLY:O	1:G:171:LEU:HD13	1.95	0.67
2:I:59:ILE:HG23	2:I:476:LYS:HE3	1.77	0.67
2:I:59:ILE:HG21	2:I:475:VAL:CG1	2.18	0.67
2:I:720:ARG:HD3	2:I:749:ASP:OD1	1.94	0.67
3:J:320:ASN:OD1	3:J:322:ARG:HB3	1.95	0.67
3:J:903:LEU:HD23	3:J:905:ARG:HG3	1.77	0.67
5:L:387:VAL:CG1	5:L:408:GLY:HA3	2.25	0.67
5:L:574:GLU:O	5:L:577:GLY:N	2.28	0.67
2:C:338:THR:CB	2:C:345:PRO:HB3	2.25	0.66
3:D:171:GLU:HB3	3:D:172:PHE:HD2	1.59	0.66
3:D:530:PRO:HA	3:D:533:ALA:HB3	1.77	0.66
4:E:39:VAL:HG22	4:E:40:PRO:HD2	1.76	0.66
1:G:12:ARG:CG	1:H:230:ALA:HB1	2.25	0.66
2:I:417:SER:OG	2:I:419:ILE:N	2.27	0.66
2:I:510:GLN:C	2:I:511:LEU:HD23	2.14	0.66
2:I:758:ARG:HB2	2:I:833:ILE:HG21	1.77	0.66
2:I:870:ILE:HG22	2:I:944:ARG:NH1	2.09	0.66
2:I:74:ARG:HH12	2:I:97:ARG:CB	2.09	0.66
3:J:493:PRO:HB2	3:J:918:ILE:HD11	1.78	0.66
3:J:537:TYR:CE2	3:J:631:TYR:HE1	2.10	0.66
3:J:910:ASN:HD22	4:K:15:ASN:HA	1.60	0.66
1:B:248:GLU:HG3	1:B:249:PHE:N	2.10	0.66
2:C:745:GLU:HB2	2:C:1017:GLN:HB3	1.77	0.66
2:C:918:LEU:HD12	2:C:918:LEU:C	2.16	0.66
3:D:1348:LYS:HG3	8:D:2004:4C4:N	2.10	0.66
3:D:198:CYS:O	3:D:202:ARG:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:310:GLY:HA2	3:D:314:ARG:HD2	1.76	0.66
3:D:515:ARG:O	3:D:545:HIS:HB3	1.96	0.66
3:D:622:ASP:HB3	3:D:626:TYR:CE2	2.29	0.66
3:D:271:ARG:CD	5:F:400:GLN:HE22	2.08	0.66
1:G:166:ARG:HD2	1:G:166:ARG:C	2.15	0.66
2:I:1302:THR:HG22	5:L:531:PRO:CB	2.25	0.66
2:I:469:VAL:HG23	2:I:470:ARG:H	1.59	0.66
2:I:723:VAL:HG22	2:I:776:PRO:HA	1.77	0.66
2:I:745:GLU:N	2:I:1017:GLN:HG3	2.10	0.66
3:J:1157:ALA:HB1	3:J:1206:ARG:HA	1.77	0.66
3:J:1193:TRP:HB2	3:J:1194:ARG:HH12	1.60	0.66
3:J:559:ALA:O	3:J:561:GLY:N	2.28	0.66
2:C:1010:GLN:O	2:C:1013:GLN:HB2	1.94	0.66
3:D:1151:LYS:O	3:D:1153:PRO:HD3	1.96	0.66
3:D:1157:ALA:O	3:D:1207:GLY:N	2.27	0.66
3:D:1159:ILE:HG13	3:D:1160:SER:O	1.95	0.66
3:D:1174:ARG:HG2	3:D:1189:MET:HG2	1.77	0.66
3:D:368:LEU:CD2	3:D:373:ALA:HB2	2.24	0.66
3:D:527:LEU:HD23	3:D:532:GLU:CG	2.25	0.66
3:D:520:ALA:CB	3:D:546:ALA:HB2	2.22	0.66
5:F:119:ILE:HD12	5:F:122:ARG:HE	1.59	0.66
5:F:585:GLU:CA	5:F:588:ARG:HG3	2.25	0.66
2:I:817:LEU:HD23	2:I:1078:LYS:O	1.96	0.66
2:I:1240:ASP:HB3	3:J:445:LYS:NZ	2.10	0.66
2:I:617:ALA:HB3	2:I:653:MET:CB	2.25	0.66
2:I:746:ALA:CB	2:I:974:ARG:HE	2.07	0.66
3:J:268:LEU:CD1	3:J:324:LEU:HD13	2.19	0.66
3:J:394:ILE:O	3:J:398:LYS:N	2.23	0.66
5:L:122:ARG:NH2	5:L:378:GLU:OE1	2.29	0.66
5:L:372:ALA:O	5:L:376:LYS:HG3	1.96	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:HD11	1.78	0.66
2:C:169:LYS:HE2	2:C:190:PRO:HA	1.77	0.66
4:E:9:ALA:HB2	4:E:55:GLU:CG	2.26	0.66
5:F:390:ILE:CD1	5:F:435:ILE:HG22	2.26	0.66
2:I:4:SER:HB3	2:I:7:GLU:CG	2.24	0.66
2:I:693:LEU:N	2:I:829:THR:O	2.28	0.66
3:J:1167:LYS:NZ	3:J:1170:LYS:HB2	2.10	0.66
3:J:124:ILE:HG12	3:J:237:MET:SD	2.35	0.66
5:L:548:LEU:HA	5:L:551:LEU:CD1	2.24	0.66
2:C:1060:ILE:HG13	2:C:1061:GLN:N	2.09	0.66
2:C:169:LYS:O	2:C:170:VAL:HG22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:272:ARG:O	2:C:276:GLN:HG3	1.95	0.66
3:D:26:SER:CB	3:D:29:MET:HB3	2.26	0.66
3:D:810:THR:HG23	3:D:893:GLY:HA3	1.78	0.66
5:F:119:ILE:CD1	5:F:122:ARG:HE	2.07	0.66
5:F:245:ALA:O	5:F:249:ILE:HG13	1.95	0.66
5:F:295:CYS:SG	5:F:330:LEU:HA	2.36	0.66
2:I:35:PHE:O	2:I:38:PHE:N	2.28	0.66
2:I:478:ARG:NH1	2:I:482:GLY:HA2	2.11	0.66
2:I:673:HIS:HB3	2:I:1109:ILE:HG22	1.78	0.66
2:I:849:GLU:HB2	2:I:851:THR:HG22	1.77	0.66
2:I:897:PRO:CB	5:L:565:ILE:HB	2.25	0.66
2:I:5:TYR:HA	2:I:8:LYS:HG2	1.77	0.66
2:I:927:THR:HG22	2:I:928:VAL:O	1.95	0.66
2:I:944:ARG:HE	2:I:948:ILE:CD1	2.08	0.66
3:D:853:THR:HB	3:J:1375:ALA:C	2.16	0.66
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.24	0.66
1:H:48:LEU:HD22	3:J:539:SER:HB3	1.76	0.66
1:B:205:MET:HG2	1:B:206:GLU:H	1.60	0.66
2:C:147:SER:OG	2:C:455:SER:HB3	1.96	0.66
2:C:15:PHE:HB3	2:C:17:LYS:HZ3	1.57	0.66
2:C:987:GLU:O	2:C:991:LYS:HG3	1.96	0.66
3:D:160:LEU:HD13	3:D:165:TYR:HA	1.77	0.66
3:D:842:ARG:HB3	3:D:882:VAL:CG1	2.26	0.66
2:I:1234:LYS:HE2	2:I:1238:LEU:HD23	1.76	0.66
2:I:435:ILE:O	2:I:438:GLY:N	2.25	0.66
2:I:617:ALA:HB3	2:I:653:MET:HG3	1.78	0.66
3:J:24:LEU:HB2	3:J:232:ASN:CG	2.15	0.66
3:J:377:PHE:HD1	3:J:380:PHE:CD1	2.14	0.66
3:J:80:HIS:CB	3:J:83:VAL:HG11	2.20	0.66
1:A:92:VAL:HG11	1:A:98:VAL:CG1	2.26	0.66
3:D:247:PRO:O	3:D:249:LEU:N	2.29	0.66
3:D:422:LEU:HB2	3:D:469:HIS:HB2	1.77	0.66
3:D:47:ARG:HH12	5:F:496:LYS:HE2	1.61	0.66
3:D:514:THR:O	3:D:595:ALA:HA	1.96	0.66
3:D:656:GLU:O	3:D:659:ALA:HB3	1.96	0.66
5:F:320:ILE:HA	5:F:327:SER:HB3	1.77	0.66
2:I:953:LEU:HA	2:I:1036:ILE:CD1	2.25	0.66
2:I:799:ASN:HA	2:I:1231:TYR:HA	1.78	0.66
2:I:201:ARG:HG3	2:I:201:ARG:HH11	1.60	0.66
2:I:389:PHE:O	2:I:419:ILE:HG22	1.96	0.66
2:I:617:ALA:HB3	2:I:653:MET:HA	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:996:ARG:NH1	2:I:999:GLU:OE2	2.27	0.66
3:J:1279:GLN:HB3	3:J:1281:GLU:OE1	1.95	0.66
1:A:56:VAL:HG22	1:A:173:VAL:CG2	2.25	0.66
1:B:151:GLY:N	1:B:177:TYR:HB2	2.11	0.66
1:B:16:ILE:HD12	1:B:214:GLU:HG3	1.78	0.66
1:B:61:ILE:HG22	1:B:63:GLY:N	2.11	0.66
2:C:417:SER:OG	2:C:419:ILE:O	2.14	0.66
2:C:617:ALA:HB3	2:C:653:MET:CA	2.25	0.66
3:D:1280:VAL:HG13	3:D:1284:ARG:HD2	1.76	0.66
5:F:239:GLY:O	5:F:245:ALA:HB2	1.96	0.66
2:I:918:LEU:HD12	2:I:919:ARG:N	2.10	0.66
3:J:147:ILE:N	3:J:177:ASP:O	2.17	0.66
3:J:88:CYS:O	3:J:90:VAL:N	2.29	0.66
3:J:68:TYR:HA	3:J:92:VAL:HG23	1.77	0.66
3:J:482:ALA:CB	4:K:20:VAL:HG22	2.26	0.66
3:J:392:THR:HB	5:L:606:VAL:HG11	1.77	0.66
1:B:155:ALA:O	1:B:158:ARG:HB3	1.95	0.66
2:C:125:GLY:HA2	2:C:499:SER:HB2	1.77	0.66
3:D:915:ILE:HA	3:D:918:ILE:HG23	1.76	0.66
5:F:130:VAL:CG1	5:F:365:MET:HG3	2.25	0.66
5:F:263:PRO:O	5:F:266:PHE:HB3	1.96	0.66
3:J:132:LEU:CD1	3:J:136:GLU:HG3	2.26	0.66
3:J:210:SER:O	3:J:214:ARG:N	2.25	0.66
3:J:513:MET:HE3	3:J:579:LEU:HD13	1.78	0.66
3:J:814:CYS:HB2	3:J:889:ASP:CB	2.22	0.66
4:K:31:GLN:HB2	4:K:46:THR:HG21	1.77	0.66
2:C:1212:LEU:HD22	2:C:1225:VAL:HG21	1.77	0.66
2:C:560:PRO:CG	3:D:773:PHE:HE2	2.09	0.66
2:C:759:SER:OG	2:C:763:THR:HG23	1.94	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:CD1	2.26	0.66
3:D:490:ILE:O	3:D:491:LEU:HD23	1.97	0.66
3:D:514:THR:HG21	3:D:596:LEU:HD23	1.78	0.66
5:F:605:GLU:O	5:F:608:ARG:HB3	1.96	0.66
1:H:67:GLU:OE2	1:H:171:LEU:HB3	1.96	0.66
2:I:219:GLN:O	2:I:222:ASP:HB3	1.96	0.66
2:I:296:VAL:CB	2:I:336:LEU:HD12	2.25	0.66
2:I:560:PRO:HG2	2:I:660:VAL:HG23	1.77	0.66
2:I:696:ASP:OD2	2:I:827:ARG:NH2	2.29	0.66
3:J:287:ALA:HB1	3:J:288:PRO:HD2	1.78	0.66
3:J:513:MET:CE	3:J:579:LEU:HD13	2.25	0.66
3:J:810:THR:CG2	3:J:893:GLY:HA3	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:123:ILE:O	5:L:127:ILE:HG12	1.96	0.66
5:L:559:LEU:O	5:L:562:ARG:N	2.28	0.66
2:I:373:GLY:O	5:L:99:ARG:HG3	1.95	0.66
1:B:98:VAL:O	1:B:145:LYS:HG3	1.95	0.65
2:C:1146:GLN:HG3	2:C:1160:ASP:OD1	1.96	0.65
2:C:1204:LEU:HB3	2:C:1205:PRO:HD2	1.78	0.65
2:C:1285:TYR:HE1	3:D:1361:THR:HG21	1.59	0.65
2:C:363:LEU:CD2	2:C:382:GLU:HA	2.26	0.65
3:D:1167:LYS:NZ	3:D:1168:GLU:O	2.20	0.65
3:D:130:MET:CE	3:D:135:ILE:HG12	2.26	0.65
3:D:520:ALA:HB1	3:D:543:SER:HB3	1.77	0.65
3:D:805:GLN:C	3:D:807:LEU:H	1.99	0.65
5:F:372:ALA:O	5:F:376:LYS:HG3	1.96	0.65
1:G:45:ARG:HH12	1:H:37:HIS:CB	2.10	0.65
2:I:1217:THR:OG1	2:I:1219:GLU:HG2	1.95	0.65
2:I:404:LYS:NZ	2:I:449:GLY:O	2.29	0.65
3:J:268:LEU:HB3	3:J:306:LEU:HD23	1.76	0.65
3:J:42:GLU:CG	5:L:451:ARG:HG2	2.26	0.65
1:A:104:LYS:HG2	1:A:105:SER:N	2.12	0.65
1:A:56:VAL:HG22	1:A:173:VAL:HG21	1.76	0.65
2:C:436:ARG:HD2	2:C:436:ARG:O	1.95	0.65
2:C:686:GLN:O	2:C:688:GLN:N	2.30	0.65
3:D:1222:ARG:HG2	3:D:1223:LEU:HD22	1.78	0.65
3:D:188:LEU:O	3:D:191:SER:OG	2.13	0.65
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.36	0.65
2:C:550:VAL:HG11	3:D:776:THR:HG22	1.77	0.65
5:F:595:LEU:HD23	5:F:595:LEU:N	2.10	0.65
2:I:1182:ILE:HG22	2:I:1183:ALA:H	1.61	0.65
2:I:720:ARG:HH21	2:I:741:MET:HG3	1.59	0.65
3:J:1163:VAL:HG22	3:J:1175:LEU:HD11	1.78	0.65
3:J:299:LEU:O	3:J:302:ALA:N	2.28	0.65
3:J:490:ILE:HG12	3:J:500:ILE:HG13	1.77	0.65
3:J:584:PRO:HD2	3:J:587:LEU:HD13	1.78	0.65
5:L:251:LYS:O	5:L:255:VAL:HG23	1.96	0.65
1:B:182:ARG:HG3	1:B:182:ARG:HH11	1.60	0.65
1:B:82:LEU:HA	1:B:85:LEU:HD12	1.77	0.65
2:C:1164:PHE:HB2	2:C:1168:GLU:CD	2.16	0.65
2:C:496:LYS:HZ2	2:C:497:PRO:CG	2.06	0.65
2:C:563:THR:HG23	2:C:564:PRO:O	1.96	0.65
2:C:1332:SER:HA	3:D:243:PRO:HG2	1.79	0.65
3:D:599:LYS:HD2	3:D:600:ALA:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1107:MET:HE1	3:D:736:GLN:HG2	1.79	0.65
3:D:824:PRO:HD3	3:D:835:LEU:HD22	1.77	0.65
1:G:165:GLU:OE2	1:G:172:LEU:HD11	1.96	0.65
1:H:38:THR:HG23	1:H:39:LEU:HG	1.78	0.65
2:I:1144:PHE:HE1	2:I:1201:LEU:HD11	1.61	0.65
3:J:755:ILE:HD12	3:J:774:ILE:HG21	1.76	0.65
5:L:482:GLU:O	5:L:485:GLU:HB3	1.95	0.65
1:A:207:THR:CG2	1:A:209:GLY:H	2.07	0.65
1:A:218:ARG:HG3	1:B:231:PHE:O	1.95	0.65
1:A:38:THR:HG22	1:A:39:LEU:HD23	1.79	0.65
1:B:232:VAL:HG12	1:B:233:ASP:H	1.61	0.65
3:D:473:THR:HG23	3:D:476:ALA:CB	2.27	0.65
3:D:599:LYS:HD2	3:D:600:ALA:HB2	1.78	0.65
3:D:871:LEU:C	3:D:871:LEU:HD23	2.17	0.65
3:D:888:CYS:HB2	3:D:898:CYS:CB	2.26	0.65
2:I:1158:LYS:O	2:I:1159:VAL:HG13	1.96	0.65
2:I:755:LYS:O	2:I:757:THR:HG22	1.96	0.65
2:I:943:LYS:O	2:I:946:LEU:N	2.29	0.65
3:J:645:VAL:O	3:J:741:ALA:HB1	1.96	0.65
3:J:827:GLU:OE1	3:J:832:LYS:HD2	1.96	0.65
2:C:1125:GLY:CA	2:C:1179:GLY:HA2	2.26	0.65
2:C:1278:LEU:HD12	2:C:1287:LEU:CB	2.25	0.65
2:C:1336:ASN:HD22	3:D:29:MET:HE3	1.59	0.65
3:D:26:SER:HB3	3:D:29:MET:HB3	1.78	0.65
3:D:514:THR:CG2	3:D:596:LEU:HD23	2.26	0.65
3:D:515:ARG:CZ	3:D:719:PHE:HE2	2.09	0.65
1:G:28:LEU:CD2	1:H:231:PHE:HE1	2.09	0.65
2:I:106:GLU:OE1	2:I:114:VAL:HG22	1.97	0.65
3:J:1159:ILE:HG22	3:J:1177:ILE:HD12	1.76	0.65
3:J:146:VAL:HA	3:J:178:ALA:CB	2.26	0.65
3:J:514:THR:OG1	3:J:596:LEU:HD23	1.97	0.65
3:J:644:MET:CB	3:J:764:ARG:HG3	2.26	0.65
3:J:94:GLN:O	3:J:97:VAL:HG23	1.97	0.65
2:C:91:THR:HB	2:C:138:ILE:O	1.96	0.65
2:C:933:VAL:CG2	2:C:1050:VAL:HG12	2.27	0.65
3:D:1282:TYR:HB3	3:D:1286:LYS:HE3	1.77	0.65
2:C:1287:LEU:HD21	3:D:1351:VAL:HG22	1.77	0.65
3:D:516:ASP:HA	3:D:545:HIS:HB2	1.78	0.65
3:D:660:GLU:O	3:D:664:ILE:HG12	1.95	0.65
4:E:50:ALA:O	4:E:54:ILE:HG12	1.97	0.65
5:F:137:TYR:HB3	5:F:140:ALA:CB	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:418:LYS:O	5:F:430:TYR:HE2	1.78	0.65
5:F:545:HIS:ND1	5:F:545:HIS:O	2.26	0.65
2:I:971:LEU:HD11	2:I:1014:LEU:O	1.96	0.65
2:I:842:ASP:HB2	2:I:1047:LEU:HD21	1.79	0.65
2:I:1274:GLU:OE1	2:I:1274:GLU:N	2.29	0.65
2:I:198:ILE:HD12	2:I:369:MET:CE	2.26	0.65
2:I:620:ASN:ND2	2:I:620:ASN:O	2.30	0.65
3:J:127:LEU:O	3:J:127:LEU:HD12	1.96	0.65
3:J:573:THR:OG1	3:J:574:VAL:N	2.25	0.65
3:J:800:LEU:O	3:J:803:VAL:N	2.23	0.65
5:L:223:GLU:OE2	5:L:258:GLN:NE2	2.29	0.65
5:L:540:LEU:HD13	5:L:607:LEU:CG	2.21	0.65
1:A:152:TYR:HE2	1:A:154:PRO:CB	2.07	0.65
1:A:152:TYR:CE2	1:A:154:PRO:HB3	2.26	0.65
1:B:255:ARG:HH11	1:B:255:ARG:HG3	1.60	0.65
2:C:971:LEU:HD22	2:C:1018:TYR:HD1	1.60	0.65
2:C:216:THR:HG23	2:C:219:GLN:OE1	1.96	0.65
2:C:360:LEU:HD13	2:C:378:ARG:NH2	2.10	0.65
2:C:49:LEU:HD12	2:C:73:TYR:CE2	2.32	0.65
3:D:148:GLU:H	3:D:156:ARG:HG3	1.60	0.65
3:D:620:PHE:CE2	3:D:624:ILE:HD11	2.32	0.65
2:C:1116:HIS:HE1	3:D:641:ILE:H	1.45	0.65
2:I:1030:GLU:OE2	2:I:1034:ARG:NH2	2.29	0.65
2:I:806:PRO:HD3	2:I:1100:PRO:HG2	1.78	0.65
2:I:1160:ASP:OD2	2:I:1163:THR:OG1	2.15	0.65
1:G:41:ASN:ND2	2:I:1216:ARG:O	2.30	0.65
2:I:1293:VAL:HG13	2:I:1301:ARG:CA	2.26	0.65
5:L:134:VAL:HG21	5:L:266:PHE:HE1	1.60	0.65
2:C:674:ASP:OD2	2:C:1070:HIS:ND1	2.28	0.65
2:C:1120:ALA:HB2	2:C:1199:LEU:CD2	2.25	0.65
2:C:1161:LEU:HD11	2:C:1163:THR:O	1.97	0.65
2:C:685:MET:SD	2:C:1073:LYS:HG3	2.37	0.65
3:D:1167:LYS:HD3	3:D:1174:ARG:HD2	1.79	0.65
1:G:124:VAL:CB	1:G:210:THR:HG22	2.27	0.65
1:G:44:ARG:HG3	1:G:183:ILE:HG22	1.78	0.65
1:G:187:VAL:HG12	1:G:201:LEU:HD13	1.78	0.65
2:I:1008:GLN:OE1	2:I:1011:LEU:HD12	1.95	0.65
2:I:1043:ALA:HB1	2:I:1044:PRO:HD2	1.79	0.65
2:I:1131:MET:HB3	2:I:1141:LEU:CD1	2.20	0.65
2:I:1128:ILE:HD12	2:I:1176:LEU:HB3	1.78	0.65
2:I:310:ILE:HG21	2:I:325:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:944:ARG:NE	2:I:948:ILE:HD11	2.08	0.65
3:J:1368:ASP:OD1	3:J:1372:ARG:NH2	2.30	0.65
5:L:121:LYS:O	5:L:124:GLU:N	2.29	0.65
5:L:140:ALA:O	5:L:143:TYR:HB3	1.96	0.65
5:L:343:LYS:HG3	5:L:346:GLN:OE1	1.96	0.65
5:L:120:ALA:HB1	5:L:421:TYR:HB3	1.79	0.65
1:B:41:ASN:HA	1:B:44:ARG:HG3	1.79	0.65
2:C:434:ASP:O	2:C:439:LYS:HG2	1.96	0.65
2:C:91:THR:HG21	2:C:503:LYS:HE3	1.79	0.65
2:C:944:ARG:HG3	2:C:944:ARG:O	1.96	0.65
3:D:1184:ASP:N	3:D:1185:PRO:HD3	2.11	0.65
1:G:17:GLU:O	1:G:25:LYS:N	2.19	0.65
2:I:344:GLY:HA3	2:I:346:TYR:CD1	2.31	0.65
2:I:421:SER:O	2:I:424:ASP:N	2.30	0.65
2:I:732:ILE:HD12	2:I:753:LEU:HD21	1.79	0.65
3:J:1156:LEU:HA	3:J:1210:ILE:HG12	1.79	0.65
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.77	0.65
4:K:26:ARG:NH1	4:K:29:GLN:OE1	2.30	0.65
5:L:111:LEU:HD13	5:L:115:GLY:C	2.18	0.65
1:A:179:PRO:HB3	1:A:208:ASN:HD21	1.61	0.65
1:A:57:THR:HG22	1:A:58:GLU:CG	2.26	0.65
2:C:1326:LEU:HD21	8:D:2004:4C4:C12	2.26	0.65
2:C:384:LEU:HG	2:C:385:PHE:N	2.12	0.65
2:C:5:TYR:HD1	2:C:8:LYS:HD3	1.62	0.65
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.09	0.65
2:C:854:ILE:HG23	2:C:855:PRO:HD2	1.77	0.65
3:D:544:LEU:HD13	3:D:575:GLY:CA	2.27	0.65
3:D:684:ASP:O	3:D:687:ALA:HB3	1.96	0.65
5:F:235:ILE:HG23	5:F:242:HIS:NE2	2.12	0.65
5:F:266:PHE:O	5:F:270:VAL:HG23	1.96	0.65
5:F:346:GLN:HA	5:F:349:GLU:CD	2.18	0.65
5:F:440:THR:HG23	5:F:441:ARG:N	2.11	0.65
5:F:487:MET:HB3	5:F:489:MET:H	1.61	0.65
2:I:1250:SER:HB3	2:I:1259:LEU:O	1.97	0.65
2:I:164:THR:HG21	2:I:171:LEU:HG	1.78	0.65
2:I:62:TYR:CZ	2:I:476:LYS:HB3	2.31	0.65
3:J:416:ILE:HG13	3:J:439:PRO:HG2	1.79	0.65
3:J:352:ARG:HB2	3:J:467:ALA:HA	1.78	0.65
5:L:328:GLU:OE1	5:L:331:HIS:NE2	2.29	0.65
5:L:387:VAL:HG11	5:L:408:GLY:CA	2.26	0.65
1:A:176:CYS:O	1:A:178:SER:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:THR:OG1	1:B:207:THR:O	2.14	0.64
2:C:310:ILE:HD13	2:C:325:LEU:HB3	1.79	0.64
3:D:123:ARG:NH1	3:D:1334:GLU:HG3	2.12	0.64
3:D:235:GLU:N	3:D:235:GLU:OE2	2.27	0.64
3:D:530:PRO:O	3:D:533:ALA:N	2.29	0.64
1:G:77:ASP:OD2	2:I:755:LYS:HE3	1.97	0.64
2:I:331:LYS:HB2	2:I:332:ARG:NH2	2.11	0.64
2:I:705:GLU:CD	2:I:705:GLU:H	1.99	0.64
3:J:623:GLN:O	3:J:627:THR:HG22	1.97	0.64
1:A:107:ILE:HG23	1:A:134:THR:HA	1.78	0.64
1:A:112:ALA:HB2	1:A:130:ILE:HD11	1.80	0.64
2:C:1002:LEU:HG	2:C:1003:THR:N	2.12	0.64
2:C:1142:ARG:CZ	2:C:1161:LEU:HD22	2.27	0.64
2:C:338:THR:HG21	2:C:345:PRO:HB3	1.79	0.64
2:C:478:ARG:NH1	2:C:482:GLY:HA2	2.13	0.64
2:C:964:LEU:O	2:C:967:LEU:N	2.29	0.64
3:D:504:GLN:HG3	3:D:505:ASP:H	1.63	0.64
3:D:661:VAL:HG12	3:D:685:ILE:HD11	1.80	0.64
1:H:115:ILE:HG22	1:H:116:THR:N	2.11	0.64
1:H:9:LEU:CB	1:H:32:GLU:HG2	2.26	0.64
2:I:301:TYR:CE2	2:I:333:ILE:HG23	2.31	0.64
2:I:629:PHE:CD2	2:I:634:VAL:HG11	2.32	0.64
3:J:194:LEU:HD22	3:J:224:LEU:HD21	1.79	0.64
3:J:614:LEU:HB3	3:J:615:LYS:NZ	2.11	0.64
1:B:182:ARG:HG3	1:B:182:ARG:NH1	2.12	0.64
1:B:69:SER:O	1:B:78:ILE:HG13	1.98	0.64
2:C:1331:ARG:HD3	3:D:33:TRP:CE2	2.32	0.64
2:C:898:GLU:N	2:C:898:GLU:OE1	2.19	0.64
3:D:1174:ARG:HA	3:D:1188:GLU:O	1.97	0.64
3:D:803:VAL:HG23	3:D:1313:SER:CA	2.27	0.64
5:F:311:THR:HG22	5:F:344:LEU:HG	1.80	0.64
2:C:1305:TYR:HE2	5:F:532:LEU:CA	2.11	0.64
1:H:88:LEU:HD12	1:H:89:ALA:H	1.62	0.64
2:I:989:LEU:HD13	2:I:1000:LEU:CD1	2.26	0.64
2:I:175:ARG:HG2	2:I:177:ILE:HG13	1.80	0.64
2:I:176:ILE:N	2:I:184:LEU:O	2.30	0.64
2:I:848:GLU:OE1	2:I:886:LYS:NZ	2.25	0.64
3:J:295:GLU:OE1	5:L:406:GLN:HG2	1.98	0.64
5:L:525:ASP:OD1	5:L:526:THR:N	2.30	0.64
2:C:219:GLN:O	2:C:222:ASP:HB3	1.97	0.64
3:D:528:THR:CG2	3:D:532:GLU:HB3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:VAL:O	3:D:578:ILE:HG13	1.97	0.64
3:D:811:GLU:OE1	3:D:890:THR:OG1	2.13	0.64
2:I:1329:GLU:O	2:I:1332:SER:OG	2.11	0.64
3:J:171:GLU:HB3	3:J:172:PHE:CD2	2.32	0.64
3:J:260:PHE:CB	5:L:504:PRO:CG	2.76	0.64
3:J:366:CYS:HB3	3:J:437:PHE:HD1	1.59	0.64
3:J:746:LEU:HG	3:J:758:PRO:CG	2.27	0.64
3:J:825:VAL:HG11	3:J:833:GLU:HB3	1.80	0.64
5:L:124:GLU:HG2	5:L:128:ASN:ND2	2.12	0.64
1:A:207:THR:HG22	1:A:208:ASN:N	2.12	0.64
1:B:232:VAL:HG12	1:B:233:ASP:N	2.13	0.64
1:B:289:LEU:CD2	1:B:295:LEU:HD11	2.27	0.64
1:B:99:ILE:HA	1:B:144:ILE:O	1.97	0.64
2:C:180:ARG:NH2	2:C:465:ARG:HH12	1.95	0.64
2:C:82:VAL:HG22	2:C:92:TYR:CD1	2.33	0.64
2:C:878:THR:HA	2:C:925:SER:CB	2.28	0.64
3:D:460:ASP:O	3:D:461:PHE:HD2	1.80	0.64
3:D:697:MET:HG3	3:D:698:MET:N	2.11	0.64
1:H:15:ASP:O	1:H:26:VAL:HG13	1.97	0.64
1:H:226:GLU:OE1	1:H:226:GLU:HA	1.98	0.64
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.31	0.64
2:I:1304:MET:CE	2:I:1308:ILE:HD11	2.28	0.64
2:I:269:ILE:N	2:I:269:ILE:HD12	2.13	0.64
2:I:61:SER:HG	2:I:66:SER:H	1.40	0.64
2:I:71:VAL:HB	2:I:99:LYS:HB2	1.79	0.64
3:J:1199:PHE:HB2	3:J:1202:GLU:HB2	1.79	0.64
3:J:1280:VAL:HG21	3:J:1304:ARG:NE	2.12	0.64
3:J:825:VAL:C	3:J:826:ILE:HG13	2.17	0.64
5:L:355:ILE:HA	5:L:358:VAL:HG22	1.78	0.64
5:L:456:MET:O	5:L:459:THR:OG1	2.16	0.64
1:B:262:LEU:H	1:B:262:LEU:HD12	1.62	0.64
3:D:474:LEU:HD12	3:D:477:GLN:HE21	1.62	0.64
3:D:888:CYS:HB2	3:D:898:CYS:HB3	1.79	0.64
5:F:494:ILE:O	5:F:497:VAL:N	2.29	0.64
1:G:187:VAL:CG1	1:G:201:LEU:HD22	2.28	0.64
1:G:43:LEU:HD13	1:G:203:ILE:CD1	2.27	0.64
1:G:88:LEU:CD1	1:G:125:LYS:HG3	2.28	0.64
2:I:700:VAL:CG1	2:I:1114:GLU:HG3	2.19	0.64
2:I:301:TYR:OH	2:I:333:ILE:HA	1.97	0.64
3:J:1322:ALA:HA	3:J:1325:PHE:CD2	2.32	0.64
3:J:265:LEU:CD1	3:J:330:MET:HE1	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:526:VAL:HA	3:J:549:LYS:O	1.97	0.64
3:J:835:LEU:HA	3:J:838:ARG:HG3	1.79	0.64
3:J:85:CYS:HB3	3:J:88:CYS:O	1.98	0.64
1:A:159:ILE:HG13	1:A:162:GLU:HB2	1.80	0.64
1:B:156:SER:HA	1:B:157:THR:C	2.17	0.64
1:A:223:ILE:HD11	1:B:8:PHE:HE2	1.62	0.64
3:D:1171:GLY:HA2	3:D:1193:TRP:HH2	1.62	0.64
3:D:184:ALA:O	3:D:188:LEU:N	2.25	0.64
3:D:194:LEU:CD1	3:D:228:VAL:HG22	2.28	0.64
3:D:210:SER:O	3:D:213:LYS:HB2	1.98	0.64
3:D:598:LYS:HA	3:D:601:ILE:CG2	2.27	0.64
3:D:826:ILE:HA	3:D:831:VAL:HA	1.79	0.64
1:H:134:THR:OG1	1:H:135:ASP:OD1	2.15	0.64
2:I:1292:THR:HG22	2:I:1293:VAL:N	2.11	0.64
2:I:151:ARG:NE	2:I:445:ILE:HD11	2.12	0.64
2:I:296:VAL:O	2:I:335:THR:HA	1.98	0.64
2:I:385:PHE:CE2	2:I:390:PHE:CE2	2.85	0.64
2:I:499:SER:O	2:I:503:LYS:HB2	1.98	0.64
2:I:57:PHE:CD1	2:I:70:TYR:HB2	2.33	0.64
2:I:615:VAL:HA	2:I:638:SER:OG	1.97	0.64
2:I:83:GLN:O	2:I:87:ILE:HG13	1.98	0.64
3:J:1155:ILE:O	3:J:1210:ILE:HG12	1.96	0.64
3:J:392:THR:HG21	5:L:606:VAL:HG21	1.78	0.64
3:J:915:ILE:HA	3:J:918:ILE:HG23	1.79	0.64
4:K:71:GLU:HA	4:K:74:GLU:HG3	1.78	0.64
2:C:1160:ASP:HB2	2:C:1161:LEU:HD12	1.80	0.64
2:C:296:VAL:HG13	2:C:315:MET:O	1.97	0.64
3:D:1156:LEU:HD12	3:D:1209:VAL:HA	1.79	0.64
3:D:1197:ASN:HB2	3:D:1212:ASP:OD2	1.98	0.64
3:D:153:ASN:HB2	3:D:172:PHE:CZ	2.33	0.64
3:D:107:LEU:HD12	3:D:240:THR:O	1.98	0.64
4:E:52:ARG:O	4:E:56:GLU:HG2	1.97	0.64
5:F:361:ILE:HG13	5:F:362:ASN:N	2.13	0.64
5:F:505:ILE:HD12	5:F:506:SER:N	2.13	0.64
2:I:870:ILE:CG1	2:I:1050:VAL:HG11	2.27	0.64
2:I:870:ILE:HG12	2:I:1050:VAL:HG11	1.80	0.64
2:I:698:PRO:HB3	2:I:1231:TYR:CD2	2.31	0.64
2:I:26:TYR:OH	2:I:28:LEU:HD12	1.98	0.64
2:I:745:GLU:H	2:I:1017:GLN:HG3	1.62	0.64
2:I:920:VAL:HG13	2:I:921:PRO:HD2	1.80	0.64
3:J:1167:LYS:CB	3:J:1174:ARG:HD3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1329:GLU:HA	3:J:245:LEU:HD11	1.78	0.64
3:J:343:LEU:O	3:J:343:LEU:HD23	1.97	0.64
3:J:71:LEU:HB3	3:J:88:CYS:SG	2.37	0.64
5:L:558:VAL:HG11	5:L:590:ILE:CG2	2.28	0.64
2:C:217:THR:HG23	2:C:351:LEU:HD22	1.80	0.64
3:D:1160:SER:H	3:D:1206:ARG:HB3	1.62	0.64
3:D:1199:PHE:HB2	3:D:1202:GLU:CB	2.28	0.64
3:D:201:LEU:HA	3:D:204:GLU:OE2	1.98	0.64
3:D:849:LEU:HA	3:D:855:ASP:O	1.98	0.64
1:G:36:GLY:C	1:G:187:VAL:HG11	2.17	0.64
2:I:1233:LEU:N	2:I:1233:LEU:HD22	2.13	0.64
2:I:242:VAL:O	2:I:245:ARG:HB2	1.98	0.64
2:I:436:ARG:O	2:I:436:ARG:HD2	1.97	0.64
2:I:572:ILE:O	2:I:573:ASN:HB2	1.97	0.64
2:I:582:ASN:HD22	2:I:586:PHE:HB2	1.62	0.64
2:I:857:VAL:HG21	2:I:862:LEU:HD21	1.79	0.64
3:J:668:PHE:HA	3:J:673:VAL:CG2	2.28	0.64
3:J:890:THR:OG1	3:J:895:CYS:HB3	1.98	0.64
3:J:93:THR:HG22	3:J:94:GLN:H	1.62	0.64
1:A:233:ASP:O	1:A:234:LEU:HG	1.97	0.64
1:A:66:HIS:HD1	1:A:66:HIS:C	2.00	0.64
2:C:1106:ARG:O	2:C:1108:ASN:ND2	2.31	0.64
2:C:1192:GLU:HA	2:C:1195:ILE:CD1	2.26	0.64
2:C:870:ILE:HG22	2:C:944:ARG:HD3	1.80	0.64
3:D:140:TYR:HB3	5:F:100:MET:SD	2.38	0.64
3:D:193:ASP:HB3	3:D:196:GLN:HG2	1.80	0.64
5:F:394:TYR:CG	5:F:439:ILE:HD11	2.32	0.64
5:F:539:SER:OG	5:F:607:LEU:HD11	1.98	0.64
2:C:901:LEU:HB2	5:F:563:PHE:HD2	1.62	0.64
1:G:43:LEU:HD13	1:G:203:ILE:HD11	1.80	0.64
2:I:262:TYR:CZ	2:I:282:VAL:HG21	2.33	0.64
2:I:388:LEU:HB3	2:I:389:PHE:CE2	2.33	0.64
2:I:593:LYS:HE3	2:I:595:THR:HG22	1.79	0.64
2:I:915:ASP:OD1	2:I:917:SER:OG	2.12	0.64
3:J:221:ILE:O	3:J:225:GLU:HG2	1.97	0.64
3:J:674:THR:OG1	3:J:677:GLU:HB2	1.98	0.64
4:K:14:GLY:O	4:K:16:ARG:N	2.31	0.64
5:L:427:PHE:CE1	5:L:431:ALA:HB2	2.33	0.64
2:C:1017:GLN:O	2:C:1021:LEU:HG	1.96	0.63
2:C:1142:ARG:HH22	2:C:1165:SER:HB2	1.63	0.63
2:C:1284:ALA:HB2	3:D:1361:THR:CB	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1305:TYR:CD2	5:F:531:PRO:HB3	2.33	0.63
2:C:228:VAL:HB	2:C:335:THR:OG1	1.98	0.63
2:C:180:ARG:CZ	2:C:465:ARG:HH12	2.11	0.63
2:C:70:TYR:CZ	2:C:72:SER:HA	2.33	0.63
3:D:190:LYS:CA	3:D:235:GLU:HG3	2.28	0.63
5:F:279:ARG:O	5:F:282:THR:HB	1.98	0.63
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.31	0.63
2:I:551:HIS:ND1	2:I:553:THR:OG1	2.30	0.63
2:I:802:VAL:CG2	2:I:1098:LEU:HD13	2.28	0.63
3:J:183:GLU:O	3:J:187:ALA:N	2.20	0.63
3:J:506:VAL:O	3:J:509:GLY:N	2.31	0.63
3:J:670:SER:HB2	3:J:672:LEU:CD1	2.27	0.63
5:L:358:VAL:HA	5:L:361:ILE:HD11	1.80	0.63
1:B:205:MET:HG2	1:B:206:GLU:N	2.12	0.63
1:B:19:VAL:O	1:B:23:HIS:HB3	1.97	0.63
1:B:54:CYS:HB2	1:B:90:VAL:HB	1.79	0.63
2:C:1051:LYS:HB3	2:C:1053:TYR:HE1	1.62	0.63
2:C:1113:LEU:CG	3:D:641:ILE:HD11	2.27	0.63
2:C:1255:THR:HG22	2:C:1257:GLN:HG3	1.81	0.63
2:C:704:MET:O	2:C:707:ALA:N	2.31	0.63
3:D:1145:PHE:O	3:D:1309:ILE:HG12	1.98	0.63
3:D:1193:TRP:HB2	3:D:1194:ARG:NH1	2.14	0.63
3:D:527:LEU:HB3	3:D:532:GLU:HG2	1.81	0.63
1:G:32:GLU:HB2	1:G:35:PHE:HD2	1.63	0.63
1:H:76:GLU:CG	1:H:80:GLU:HG2	2.28	0.63
2:I:111:GLU:CD	2:I:111:GLU:H	2.01	0.63
3:J:627:THR:HG23	3:J:628:GLY:N	2.13	0.63
3:J:644:MET:HB3	3:J:764:ARG:HG3	1.80	0.63
1:A:38:THR:C	1:A:39:LEU:HD23	2.17	0.63
2:C:971:LEU:HD11	2:C:1018:TYR:HB2	1.80	0.63
2:C:209:ILE:CA	2:C:212:ALA:HB3	2.29	0.63
3:D:1229:VAL:O	3:D:1232:TYR:N	2.30	0.63
3:D:171:GLU:HB3	3:D:172:PHE:CE2	2.33	0.63
3:D:193:ASP:HB3	3:D:196:GLN:HG3	1.80	0.63
3:D:902:ASP:O	3:D:903:LEU:HD22	1.98	0.63
3:D:97:VAL:C	3:D:99:ARG:H	2.02	0.63
5:F:304:THR:HG22	5:F:305:LEU:HD12	1.80	0.63
1:H:86:LYS:CD	1:H:174:ASP:HB2	2.28	0.63
2:I:884:VAL:CG1	2:I:1050:VAL:HG21	2.20	0.63
2:I:1080:ASN:HB2	2:I:1085:MET:HE3	1.79	0.63
2:I:1172:LEU:O	2:I:1176:LEU:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1322:SER:OG	2:I:1323:PHE:N	2.29	0.63
3:J:1253:ILE:O	3:J:1257:VAL:HG23	1.99	0.63
3:J:1284:ARG:O	3:J:1284:ARG:NH1	2.32	0.63
3:J:325:LYS:HE3	3:J:330:MET:CG	2.21	0.63
3:J:336:GLY:O	3:J:338:PHE:N	2.27	0.63
2:I:1313:HIS:HB2	3:J:474:LEU:HD22	1.79	0.63
3:J:615:LYS:HE2	3:J:616:PRO:HD3	1.81	0.63
5:L:387:VAL:HA	5:L:390:ILE:HD12	1.79	0.63
1:B:190:ALA:O	1:B:198:LEU:HB2	1.97	0.63
2:C:1201:LEU:O	2:C:1201:LEU:HD12	1.98	0.63
2:C:887:VAL:HB	2:C:913:VAL:CG2	2.29	0.63
2:C:980:VAL:HA	2:C:984:VAL:HA	1.80	0.63
2:C:994:ARG:HD2	2:C:997:TRP:CH2	2.33	0.63
3:D:450:HIS:HE1	3:D:452:LEU:HD12	1.63	0.63
3:D:491:LEU:HB2	3:D:904:ALA:O	1.98	0.63
2:I:1120:ALA:O	2:I:1124:ILE:HG12	1.98	0.63
2:I:1120:ALA:HB2	2:I:1199:LEU:HD23	1.79	0.63
2:I:421:SER:H	2:I:424:ASP:HB2	1.63	0.63
2:I:38:PHE:HB2	2:I:457:GLY:HA2	1.80	0.63
2:I:746:ALA:HB2	2:I:974:ARG:NE	2.11	0.63
3:J:357:VAL:HG22	3:J:461:PHE:CE1	2.33	0.63
3:J:58:CYS:SG	3:J:60:ARG:HB3	2.39	0.63
4:K:24:ALA:O	4:K:27:ALA:N	2.31	0.63
1:B:102:LEU:HD21	1:B:114:ASP:O	1.99	0.63
1:B:134:THR:OG1	1:B:135:ASP:N	2.32	0.63
2:C:810:TYR:CE1	2:C:1078:LYS:CD	2.79	0.63
2:C:516:ASP:OD1	2:C:761:GLN:NE2	2.31	0.63
2:C:756:TYR:N	2:C:756:TYR:HD1	1.86	0.63
2:C:971:LEU:HD13	2:C:1018:TYR:HB2	1.79	0.63
3:D:291:ILE:HD11	5:F:409:ASN:HB3	1.80	0.63
3:D:307:LEU:O	3:D:328:ALA:HB2	1.99	0.63
3:D:425:ARG:HG2	3:D:426:ALA:N	2.07	0.63
3:D:703:THR:O	3:D:705:THR:N	2.30	0.63
2:C:1101:LEU:O	3:D:731:ARG:HD3	1.99	0.63
3:D:805:GLN:HG2	3:D:806:ASP:OD2	1.98	0.63
2:I:1043:ALA:HB1	2:I:1044:PRO:CD	2.28	0.63
2:I:157:PHE:N	2:I:443:ASP:OD2	2.26	0.63
3:J:311:ARG:C	3:J:312:ARG:HG2	2.19	0.63
3:J:495:ASN:C	3:J:497:GLU:H	1.98	0.63
5:L:387:VAL:HG11	5:L:408:GLY:C	2.19	0.63
1:B:78:ILE:HG22	1:B:79:LEU:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1192:GLU:OE2	3:D:764:ARG:NH1	2.23	0.63
3:D:799:ARG:O	3:D:802:ASP:HB2	1.99	0.63
2:I:318:SER:O	2:I:321:LEU:HB2	1.96	0.63
2:I:445:ILE:HG22	2:I:446:ASP:OD1	1.99	0.63
3:J:1234:VAL:CA	3:J:1237:VAL:HG12	2.27	0.63
3:D:1183:SER:CA	3:J:206:ASN:HD21	2.11	0.63
3:J:210:SER:HB2	3:J:213:LYS:CG	2.29	0.63
2:I:1331:ARG:HG2	3:J:33:TRP:CZ3	2.34	0.63
3:J:355:ILE:HG22	3:J:447:ILE:HB	1.80	0.63
3:J:661:VAL:O	3:J:665:GLN:N	2.20	0.63
3:J:664:ILE:HA	3:J:667:GLN:OE1	1.98	0.63
3:J:678:ARG:CG	3:J:679:TYR:N	2.60	0.63
3:J:691:ASP:HA	3:J:694:SER:HB3	1.80	0.63
5:L:240:ARG:CB	5:L:244:THR:HB	2.25	0.63
5:L:227:GLN:CB	5:L:255:VAL:HG21	2.28	0.63
5:L:404:LEU:H	5:L:404:LEU:HD12	1.64	0.63
5:L:497:VAL:HG12	5:L:498:LEU:N	2.13	0.63
1:A:169:GLY:O	1:A:171:LEU:HD22	1.99	0.63
2:C:303:ASP:CG	2:C:306:THR:HG22	2.18	0.63
2:C:468:LEU:O	2:C:471:VAL:N	2.31	0.63
2:C:699:LEU:HG	2:C:799:ASN:OD1	1.99	0.63
2:C:756:TYR:HE1	2:C:766:ASN:ND2	1.96	0.63
2:C:890:LYS:H	2:C:913:VAL:HA	1.63	0.63
2:C:901:LEU:CD1	2:C:905:ILE:HD11	2.28	0.63
2:C:921:PRO:HB2	2:C:924:VAL:CG2	2.28	0.63
3:D:161:THR:HG22	3:D:164:GLN:CD	2.19	0.63
3:D:197:GLU:O	3:D:201:LEU:HG	1.99	0.63
3:D:62:PHE:CD2	3:D:247:PRO:CG	2.81	0.63
3:D:351:GLY:O	3:D:352:ARG:HB3	1.98	0.63
3:D:369:PRO:HG3	3:D:446:ALA:O	1.99	0.63
3:D:45:ASN:OD1	3:D:47:ARG:N	2.31	0.63
4:E:19:LEU:HD12	4:E:19:LEU:O	1.99	0.63
2:C:856:ASN:ND2	5:F:609:SER:O	2.29	0.63
1:G:91:ARG:HD3	1:G:210:THR:O	1.98	0.63
1:H:57:THR:CG2	1:H:158:ARG:HH21	2.11	0.63
2:I:18:ARG:N	2:I:1188:ASP:OD2	2.28	0.63
2:I:1287:LEU:O	2:I:1290:MET:N	2.31	0.63
2:I:529:ARG:O	2:I:530:ILE:HG12	1.98	0.63
2:I:629:PHE:CZ	2:I:650:VAL:HG21	2.34	0.63
2:I:794:LEU:HG	2:I:796:LEU:HD11	1.81	0.63
3:J:1167:LYS:CB	3:J:1174:ARG:HH11	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1206:ARG:NH2	3:J:1223:LEU:O	2.31	0.63
3:J:278:ARG:HA	3:J:281:ARG:NH1	2.13	0.63
3:J:834:PRO:O	3:J:838:ARG:HG2	1.99	0.63
3:D:1372:ARG:HE	3:J:854:ALA:CB	2.11	0.63
1:A:9:LEU:HB2	1:A:32:GLU:HG2	1.80	0.63
2:C:817:LEU:HD21	2:C:1085:MET:CE	2.28	0.63
2:C:806:PRO:HD3	2:C:1100:PRO:HG2	1.81	0.63
2:C:155:VAL:HG23	2:C:175:ARG:O	1.98	0.63
2:C:277:LEU:HA	2:C:280:ASP:HB2	1.80	0.63
2:C:971:LEU:HD23	2:C:972:PHE:N	2.14	0.63
3:D:718:SER:OG	3:D:719:PHE:N	2.31	0.63
3:D:74:LYS:HB3	3:D:75:TYR:CD1	2.34	0.63
5:F:281:ARG:HB2	5:F:281:ARG:CZ	2.29	0.63
5:F:345:GLN:O	5:F:349:GLU:HG3	1.98	0.63
1:G:18:GLN:HA	1:G:24:ALA:CB	2.29	0.63
1:H:47:LEU:O	1:H:180:VAL:HG21	1.98	0.63
1:H:22:THR:O	1:H:207:THR:OG1	2.15	0.63
3:J:101:ARG:O	3:J:246:PRO:HG3	1.98	0.63
3:J:125:GLY:O	3:J:128:LEU:N	2.31	0.63
3:J:62:PHE:CD1	3:J:247:PRO:HD3	2.34	0.63
3:J:364:HIS:HB3	4:K:4:VAL:HG23	1.80	0.63
3:J:260:PHE:HB2	5:L:504:PRO:HG3	1.78	0.63
5:L:542:ALA:O	5:L:546:ASP:HB2	1.98	0.63
1:B:100:LEU:HG	1:B:116:THR:HG23	1.81	0.63
2:C:1233:LEU:HD12	2:C:1233:LEU:N	2.14	0.63
2:C:245:ARG:CZ	2:C:337:PHE:HD2	2.11	0.63
2:C:478:ARG:O	2:C:481:LEU:HD22	1.99	0.63
2:C:490:GLN:CD	5:F:472:GLN:HB3	2.19	0.63
3:D:425:ARG:NE	3:D:426:ALA:HB3	2.13	0.63
3:D:527:LEU:HD23	3:D:532:GLU:HG2	1.80	0.63
3:D:813:ASP:OD1	3:D:883:ARG:NH1	2.31	0.63
2:I:74:ARG:NH1	2:I:121:GLU:OE1	2.32	0.63
2:I:931:VAL:HG22	2:I:1052:VAL:HG13	1.81	0.63
3:J:611:ILE:HG22	3:J:612:LEU:HD12	1.80	0.63
3:J:833:GLU:OE2	3:J:834:PRO:HD2	1.99	0.63
5:L:101:TYR:CE2	5:L:405:ILE:HD11	2.33	0.63
5:L:485:GLU:C	5:L:487:MET:H	2.02	0.63
1:A:235:ARG:N	1:A:235:ARG:HD2	2.14	0.62
1:B:76:GLU:CD	1:B:76:GLU:H	1.99	0.62
2:C:1113:LEU:HD11	3:D:641:ILE:CG1	2.29	0.62
2:C:1122:LYS:HG2	2:C:1229:TYR:CZ	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:325:LEU:HD12	2:C:326:SER:N	2.13	0.62
2:C:670:PHE:CD1	2:C:1184:THR:HG21	2.34	0.62
2:C:718:ALA:HB3	2:C:780:GLY:H	1.64	0.62
2:C:724:VAL:HG11	2:C:727:VAL:HG23	1.80	0.62
3:D:1163:VAL:HG21	3:D:1175:LEU:HD21	1.81	0.62
3:D:62:PHE:O	3:D:101:ARG:HD2	1.99	0.62
3:D:660:GLU:HB3	3:D:685:ILE:CD1	2.29	0.62
5:F:498:LEU:HD22	5:F:498:LEU:H	1.63	0.62
1:G:80:GLU:HG2	1:G:84:ASN:HD21	1.64	0.62
1:H:65:LEU:HD22	1:H:171:LEU:HD21	1.80	0.62
2:I:1287:LEU:HD23	2:I:1288:GLN:CA	2.29	0.62
2:I:214:ASN:HB2	2:I:359:ARG:HD2	1.80	0.62
2:I:76:GLY:C	2:I:95:PRO:HD2	2.19	0.62
3:J:1319:PHE:CE1	3:J:1320:ILE:HG13	2.33	0.62
3:J:435:GLN:HG2	3:J:489:ASN:HD22	1.63	0.62
3:J:511:TYR:HA	3:J:514:THR:HG23	1.80	0.62
5:L:265:GLN:O	5:L:268:TYR:HB3	1.98	0.62
2:I:490:GLN:HE21	5:L:472:GLN:CB	2.12	0.62
5:L:599:ARG:C	5:L:601:PRO:HD3	2.19	0.62
1:B:20:SER:OG	1:B:22:THR:HG22	1.99	0.62
2:C:70:TYR:HA	2:C:100:LEU:HD23	1.80	0.62
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.80	0.62
2:C:229:ILE:HB	2:C:240:GLU:CD	2.20	0.62
2:C:538:LEU:HD12	2:C:538:LEU:N	2.13	0.62
2:C:41:GLN:NE2	2:C:73:TYR:O	2.32	0.62
3:D:1169:THR:O	3:D:1171:GLY:N	2.32	0.62
3:D:1266:ILE:HA	3:D:1302:TYR:HA	1.80	0.62
3:D:198:CYS:O	3:D:201:LEU:N	2.32	0.62
3:D:80:HIS:CB	3:D:83:VAL:HG11	2.27	0.62
1:H:11:PRO:HG3	1:H:31:LEU:CD1	2.30	0.62
2:I:953:LEU:HA	2:I:1036:ILE:HD13	1.79	0.62
2:I:1086:PRO:O	2:I:1094:VAL:HG12	1.99	0.62
2:I:1191:LYS:NZ	2:I:1192:GLU:HB2	2.13	0.62
2:I:1200:LYS:O	2:I:1203:ASP:N	2.22	0.62
2:I:1211:ARG:HB2	2:I:1220:GLN:NE2	2.06	0.62
2:I:1239:VAL:O	2:I:1242:LYS:N	2.32	0.62
2:I:1305:TYR:OH	5:L:532:LEU:HD23	1.99	0.62
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.99	0.62
2:I:720:ARG:NH2	2:I:741:MET:HG3	2.13	0.62
3:J:288:PRO:O	3:J:292:VAL:HG13	1.99	0.62
2:I:1223:ARG:HG3	3:J:635:SER:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:399:ALA:O	2:C:403:MET:HB2	2.00	0.62
2:C:979:LEU:HD11	2:C:1011:LEU:CD1	2.30	0.62
3:D:118:LYS:O	3:D:120:LEU:N	2.32	0.62
3:D:1237:VAL:HG11	3:D:1253:ILE:HD13	1.81	0.62
3:D:1371:ARG:O	3:D:1375:ALA:HB2	1.99	0.62
3:D:214:ARG:O	3:D:218:THR:HG22	1.99	0.62
3:D:548:VAL:HG12	3:D:549:LYS:O	2.00	0.62
3:D:882:VAL:HG12	3:D:883:ARG:N	2.13	0.62
1:G:23:HIS:HE1	1:G:204:GLU:HG3	1.64	0.62
2:I:1131:MET:O	2:I:1135:GLN:N	2.32	0.62
5:L:295:CYS:SG	5:L:330:LEU:HD23	2.38	0.62
1:B:112:ALA:HA	1:B:115:ILE:CD1	2.30	0.62
2:C:122:VAL:HG23	5:F:472:GLN:HG2	1.81	0.62
2:C:720:ARG:HH21	2:C:741:MET:HA	1.64	0.62
2:C:852:ALA:HB2	2:C:869:GLY:HA2	1.81	0.62
3:D:1307:LEU:HD11	3:D:1311:LYS:HG2	1.80	0.62
3:D:430:HIS:O	3:D:432:LEU:N	2.33	0.62
3:D:600:ALA:O	3:D:603:LYS:HG2	1.99	0.62
3:D:820:ILE:O	3:D:882:VAL:N	2.31	0.62
5:F:240:ARG:HB3	5:F:244:THR:HB	1.82	0.62
5:F:297:MET:HE3	5:F:330:LEU:HD21	1.80	0.62
2:I:796:LEU:N	2:I:796:LEU:HD12	2.14	0.62
2:I:932:GLN:HB3	2:I:934:PHE:CE2	2.34	0.62
3:J:403:ARG:HG3	3:J:403:ARG:NH1	2.12	0.62
3:J:580:TRP:HB2	3:J:589:TYR:CE1	2.34	0.62
5:L:387:VAL:HG22	5:L:435:ILE:HD13	1.80	0.62
1:A:50:SER:CB	1:B:8:PHE:HZ	2.07	0.62
2:C:63:SER:C	2:C:65:ASN:H	2.00	0.62
3:D:1160:SER:HB2	3:D:1206:ARG:HG2	1.81	0.62
3:D:1229:VAL:HG13	3:D:1230:THR:H	1.64	0.62
3:D:580:TRP:HH2	3:D:587:LEU:O	1.81	0.62
3:D:60:ARG:HG3	3:D:89:GLY:HA3	1.81	0.62
3:D:801:VAL:O	3:D:805:GLN:HB2	1.99	0.62
5:F:419:PHE:O	5:F:420:GLU:HB2	1.99	0.62
5:F:559:LEU:O	5:F:562:ARG:N	2.33	0.62
1:H:101:THR:HG22	1:H:116:THR:HG21	1.80	0.62
2:I:1073:LYS:CB	3:J:462:ASP:HB2	2.30	0.62
2:I:1223:ARG:CZ	2:I:1223:ARG:HB3	2.30	0.62
2:I:245:ARG:HG2	2:I:337:PHE:HE2	1.60	0.62
2:I:30:ILE:N	2:I:30:ILE:HD12	2.14	0.62
2:I:901:LEU:O	2:I:905:ILE:HG13	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1313:SER:O	3:J:1315:ALA:N	2.32	0.62
3:J:492:SER:HB2	3:J:499:ILE:HD13	1.81	0.62
2:C:927:THR:O	2:C:1054:LEU:HD12	2.00	0.62
2:C:1209:GLN:HB3	2:C:1224:PRO:HB2	1.81	0.62
2:C:1238:LEU:H	2:C:1238:LEU:CD1	1.99	0.62
2:C:209:ILE:O	2:C:213:LEU:N	2.33	0.62
2:C:242:VAL:CG2	2:C:245:ARG:HD2	2.29	0.62
2:C:885:GLY:HA2	2:C:917:SER:HB3	1.80	0.62
3:D:426:ALA:CB	3:D:427:PRO:CD	2.77	0.62
3:D:674:THR:HG23	3:D:677:GLU:HB2	1.81	0.62
3:D:864:LEU:HD23	3:D:864:LEU:N	2.14	0.62
3:D:923:ILE:HA	3:D:1248:ILE:CD1	2.29	0.62
5:F:536:THR:O	5:F:539:SER:N	2.32	0.62
2:I:216:THR:H	2:I:219:GLN:HB2	1.63	0.62
2:I:593:LYS:HA	2:I:652:TYR:CD2	2.34	0.62
2:I:665:ALA:C	2:I:667:LEU:H	2.03	0.62
2:I:892:GLU:O	2:I:892:GLU:HG3	2.00	0.62
3:J:138:VAL:HG11	3:J:145:VAL:CG1	2.29	0.62
1:B:112:ALA:HA	1:B:115:ILE:CG1	2.29	0.62
1:B:146:VAL:HG23	1:B:147:GLN:N	2.15	0.62
1:B:99:ILE:HG13	1:B:144:ILE:C	2.20	0.62
2:C:5:TYR:C	2:C:7:GLU:H	2.01	0.62
2:C:944:ARG:HA	2:C:947:GLU:HG3	1.80	0.62
2:C:985:GLU:HB2	2:C:989:LEU:HB2	1.82	0.62
3:D:198:CYS:C	3:D:202:ARG:HG3	2.20	0.62
3:D:611:ILE:C	3:D:612:LEU:HD12	2.20	0.62
3:D:772:TYR:O	3:D:775:SER:HB3	1.98	0.62
5:F:232:ARG:O	5:F:236:LYS:HG3	2.00	0.62
5:F:575:GLU:HA	5:F:578:LYS:CG	2.29	0.62
5:F:584:ARG:O	5:F:587:ILE:HG22	2.00	0.62
1:G:182:ARG:O	1:G:183:ILE:HD12	2.00	0.62
2:I:115:LYS:HD3	2:I:116:ASP:N	2.14	0.62
2:I:159:SER:OG	2:I:160:ASP:N	2.32	0.62
2:I:316:GLU:OE2	2:I:316:GLU:N	2.22	0.62
2:I:395:TYR:HE2	2:I:397:LEU:CD1	2.12	0.62
3:J:111:THR:HG23	3:J:300:GLN:OE1	1.99	0.62
3:J:1343:GLU:HG3	3:J:1373:ARG:HH22	1.63	0.62
3:J:614:LEU:H	3:J:615:LYS:HZ1	1.48	0.62
1:A:27:THR:C	1:A:28:LEU:HD12	2.19	0.62
1:A:45:ARG:HG2	1:B:38:THR:CB	2.28	0.62
2:C:201:ARG:HG2	2:C:201:ARG:NH1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:312:ALA:HB3	2:C:315:MET:CE	2.30	0.62
2:C:658:GLN:O	2:C:660:VAL:N	2.32	0.62
2:C:577:VAL:HG23	2:C:661:VAL:O	2.00	0.62
3:D:482:ALA:HA	4:E:6:VAL:HG11	1.82	0.62
5:F:540:LEU:O	5:F:544:THR:OG1	2.14	0.62
1:G:124:VAL:HB	1:G:210:THR:HG22	1.82	0.62
1:H:100:LEU:HD21	1:H:121:VAL:HG11	1.81	0.62
2:I:1030:GLU:OE1	2:I:1033:ARG:NH2	2.33	0.62
2:I:1087:TYR:CE1	2:I:1215:GLY:HA2	2.32	0.62
2:I:1285:TYR:CE1	3:J:1361:THR:HG21	2.35	0.62
2:I:119:GLU:CG	2:I:489:PRO:HD2	2.30	0.62
3:J:615:LYS:O	3:J:619:ILE:HG22	2.00	0.62
3:J:647:PRO:HG3	3:J:697:MET:CA	2.29	0.62
3:J:751:ASP:HB3	3:J:753:SER:OG	2.00	0.62
3:J:827:GLU:HB2	3:J:832:LYS:HB2	1.81	0.62
2:C:1293:VAL:HG22	2:C:1300:GLY:CA	2.29	0.62
2:C:260:LYS:HE3	2:C:262:TYR:CD1	2.35	0.62
2:C:42:ASP:O	2:C:44:GLU:N	2.28	0.62
3:D:361:LEU:HD22	3:D:366:CYS:HA	1.80	0.62
3:D:545:HIS:N	3:D:545:HIS:ND1	2.48	0.62
3:D:692:ARG:O	3:D:696:ALA:N	2.32	0.62
2:C:550:VAL:CG1	3:D:777:HIS:HA	2.29	0.62
5:F:235:ILE:HA	5:F:242:HIS:HE1	1.63	0.62
1:H:86:LYS:HD3	1:H:174:ASP:HB2	1.82	0.62
2:I:211:ARG:HH22	2:I:351:LEU:CD2	2.12	0.62
2:I:560:PRO:HD3	2:I:660:VAL:O	2.00	0.62
2:I:629:PHE:CE2	2:I:634:VAL:HG11	2.34	0.62
3:J:161:THR:HG22	3:J:164:GLN:CD	2.19	0.62
3:J:424:ASN:ND2	3:J:467:ALA:HB3	2.15	0.62
3:J:474:LEU:HD13	3:J:477:GLN:HE21	1.65	0.62
3:J:826:ILE:HA	3:J:831:VAL:N	2.15	0.62
5:L:479:THR:OG1	5:L:479:THR:O	2.18	0.62
1:A:60:GLU:HB3	1:A:143:ARG:HB2	1.80	0.62
1:A:164:ASP:OD1	1:A:166:ARG:HB2	1.99	0.62
2:C:1305:TYR:HE2	5:F:532:LEU:N	1.97	0.62
2:C:756:TYR:HE1	2:C:766:ASN:CG	2.03	0.62
2:C:921:PRO:O	2:C:924:VAL:HG22	1.99	0.62
3:D:1157:ALA:CB	3:D:1206:ARG:HA	2.30	0.62
3:D:117:LEU:C	3:D:118:LYS:HG2	2.20	0.62
3:D:923:ILE:HA	3:D:1248:ILE:HD11	1.81	0.62
3:D:205:LEU:HB2	3:D:217:LEU:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:231:THR:HG21	5:F:249:ILE:HA	1.82	0.62
5:F:279:ARG:HA	5:F:282:THR:HB	1.81	0.62
2:C:122:VAL:HG23	5:F:472:GLN:CG	2.30	0.62
1:G:211:ILE:HD13	1:G:212:ASP:H	1.64	0.62
1:G:92:VAL:HA	1:G:120:ASP:O	2.00	0.62
2:I:75:LEU:CD1	2:I:127:ILE:HD11	2.29	0.62
2:I:943:LYS:HE2	2:I:947:GLU:OE1	1.99	0.62
2:I:992:LEU:HB2	2:I:993:PRO:HD2	1.82	0.62
3:J:1137:GLY:N	3:J:1140:ARG:HB3	2.14	0.62
3:J:1352:ILE:N	3:J:1352:ILE:HD12	2.14	0.62
3:J:320:ASN:HD21	3:J:322:ARG:HB3	1.65	0.62
3:J:321:LYS:HG2	3:J:322:ARG:N	2.15	0.62
3:J:606:ASN:O	3:J:610:ARG:HD3	1.98	0.62
5:L:563:PHE:C	5:L:565:ILE:H	2.02	0.62
1:B:27:THR:HA	1:B:202:VAL:HA	1.81	0.61
1:B:285:THR:OG1	1:B:287:VAL:HG23	2.00	0.61
1:B:302:GLU:HA	1:B:305:ASP:OD2	2.00	0.61
1:B:75:GLN:HG2	1:B:76:GLU:N	2.15	0.61
1:B:80:GLU:HG3	1:B:80:GLU:O	2.00	0.61
2:C:1116:HIS:O	2:C:1119:MET:HB3	2.00	0.61
2:C:406:ASN:HD22	2:C:413:GLU:HB2	1.64	0.61
2:C:93:SER:HA	2:C:129:LEU:HD12	1.82	0.61
3:D:339:ARG:CB	3:D:340:GLN:HA	2.30	0.61
5:F:516:ASP:OD2	5:F:516:ASP:N	2.33	0.61
2:I:1145:ILE:HG22	2:I:1146:GLN:N	2.15	0.61
2:I:242:VAL:CB	2:I:245:ARG:HD2	2.30	0.61
1:B:85:LEU:O	1:B:87:GLY:N	2.32	0.61
2:C:802:VAL:HG12	2:C:1228:GLY:O	1.99	0.61
3:D:411:ILE:O	3:D:414:GLU:HB2	2.00	0.61
3:D:599:LYS:HD2	3:D:600:ALA:CB	2.29	0.61
4:E:58:LEU:HD12	4:E:58:LEU:N	2.14	0.61
1:H:192:VAL:O	1:H:195:ARG:N	2.33	0.61
1:H:217:ILE:O	1:H:220:ALA:HB3	2.00	0.61
1:G:218:ARG:CD	1:H:233:ASP:H	2.11	0.61
1:H:89:ALA:HB3	1:H:124:VAL:CG1	2.30	0.61
2:I:1004:ASP:OD1	2:I:1004:ASP:N	2.34	0.61
2:I:807:TRP:NE1	2:I:1086:PRO:HG3	2.15	0.61
2:I:1183:ALA:O	2:I:1185:PRO:HD3	2.00	0.61
2:I:378:ARG:NH1	2:I:382:GLU:OE2	2.33	0.61
2:I:452:ARG:HG2	2:I:453:ILE:N	2.14	0.61
2:I:766:ASN:OD1	2:I:767:GLN:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:902:LEU:HA	2:I:905:ILE:HD12	1.81	0.61
3:J:1172:LYS:HA	3:J:1191:PRO:HA	1.82	0.61
2:I:815:SER:HB3	3:J:461:PHE:CD1	2.35	0.61
5:L:283:GLN:O	5:L:286:LEU:HB3	2.00	0.61
5:L:422:ARG:O	5:L:423:ARG:HG3	2.00	0.61
1:A:45:ARG:HH22	2:C:1216:ARG:HA	1.65	0.61
1:B:92:VAL:HG11	1:B:95:LYS:HB3	1.82	0.61
2:C:666:SER:HA	2:C:1186:VAL:HG21	1.81	0.61
2:C:130:MET:CG	2:C:134:GLY:HA2	2.30	0.61
2:C:397:LEU:HD23	2:C:402:ARG:N	2.14	0.61
2:C:551:HIS:ND1	2:C:553:THR:OG1	2.30	0.61
3:D:16:GLU:HG3	3:D:1369:ARG:NH2	2.14	0.61
3:D:199:GLU:HA	3:D:202:ARG:CD	2.30	0.61
3:D:205:LEU:CD2	3:D:217:LEU:HG	2.27	0.61
3:D:22:ILE:HG12	3:D:23:ALA:N	2.14	0.61
3:D:759:ILE:HD13	3:D:771:GLN:HG2	1.81	0.61
3:D:97:VAL:O	3:D:99:ARG:N	2.34	0.61
5:F:121:LYS:HG2	5:F:421:TYR:CZ	2.35	0.61
5:F:377:LYS:O	5:F:380:VAL:HG12	2.01	0.61
1:G:137:ASN:OD1	1:G:137:ASN:N	2.32	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:HD3	1.80	0.61
2:I:1106:ARG:O	2:I:1108:ASN:N	2.31	0.61
2:I:702:THR:HA	2:I:1184:THR:O	1.99	0.61
2:I:1202:GLY:O	2:I:1203:ASP:HB2	1.98	0.61
2:I:1293:VAL:HG13	2:I:1301:ARG:N	2.16	0.61
2:I:159:SER:O	2:I:160:ASP:HB2	2.00	0.61
2:I:800:MET:HE2	2:I:1096:ILE:HD11	1.81	0.61
3:J:1155:ILE:C	3:J:1156:LEU:HD13	2.21	0.61
2:C:1002:LEU:HG	2:C:1003:THR:H	1.64	0.61
2:C:70:TYR:HA	2:C:100:LEU:CD2	2.30	0.61
2:C:564:PRO:HA	2:C:684:ASN:HD21	1.65	0.61
2:C:883:LEU:CB	2:C:918:LEU:HD11	2.24	0.61
3:D:111:THR:HG23	3:D:300:GLN:OE1	2.00	0.61
3:D:358:GLY:N	3:D:359:PRO:HD3	2.15	0.61
3:D:491:LEU:O	3:D:904:ALA:HA	2.00	0.61
4:E:39:VAL:HG13	4:E:52:ARG:HH21	1.64	0.61
5:F:413:MET:O	5:F:416:VAL:HG12	2.00	0.61
1:G:28:LEU:HD23	1:H:231:PHE:CE1	2.32	0.61
2:I:1111:GLN:O	2:I:1115:THR:OG1	2.18	0.61
2:I:198:ILE:HG22	2:I:199:ASP:CG	2.21	0.61
3:J:426:ALA:HB3	3:J:427:PRO:CD	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:457:TYR:O	3:J:458:ASN:HB3	2.00	0.61
5:L:271:ASN:O	5:L:275:VAL:HG23	2.00	0.61
5:L:524:GLU:HG3	5:L:525:ASP:O	1.99	0.61
1:A:57:THR:CG2	1:A:158:ARG:HH12	2.13	0.61
2:C:1004:ASP:N	2:C:1004:ASP:OD1	2.29	0.61
2:C:1024:GLU:O	2:C:1027:LYS:HG3	2.00	0.61
2:C:481:LEU:N	2:C:481:LEU:HD13	2.16	0.61
2:C:894:GLN:HE22	3:D:77:ARG:NH1	1.96	0.61
3:D:1267:VAL:N	3:D:1301:THR:O	2.27	0.61
3:D:27:PRO:O	3:D:31:ARG:HG3	1.99	0.61
3:D:279:LEU:HD12	3:D:295:GLU:HB3	1.80	0.61
3:D:923:ILE:O	3:D:926:PRO:HD2	1.99	0.61
5:F:508:GLU:OE2	5:F:508:GLU:HA	2.01	0.61
5:F:573:LEU:H	5:F:573:LEU:HD13	1.66	0.61
1:H:53:GLY:HA3	1:H:177:TYR:O	2.01	0.61
2:I:631:GLU:OE1	2:I:631:GLU:N	2.32	0.61
3:J:400:MET:HA	3:J:405:GLU:OE2	2.00	0.61
2:I:1075:VAL:HG23	3:J:463:GLY:N	2.15	0.61
3:J:488:ASN:N	3:J:488:ASN:OD1	2.32	0.61
3:J:618:VAL:O	3:J:621:ALA:N	2.32	0.61
3:J:749:LYS:HB2	3:J:750:PRO:CD	2.30	0.61
5:L:262:VAL:HG12	5:L:264:LYS:HD3	1.82	0.61
1:A:231:PHE:HD2	1:B:43:LEU:HD21	1.63	0.61
1:B:255:ARG:CG	1:B:255:ARG:NH1	2.59	0.61
1:B:14:VAL:HB	1:B:28:LEU:HD13	1.82	0.61
2:C:1145:ILE:HG22	2:C:1146:GLN:N	2.14	0.61
2:C:225:PHE:CZ	2:C:347:ILE:HB	2.36	0.61
2:C:517:GLN:NE2	2:C:760:ASN:H	1.99	0.61
3:D:1322:ALA:HA	3:D:1325:PHE:HD1	1.64	0.61
3:D:343:LEU:HD23	3:D:343:LEU:O	2.00	0.61
3:D:843:VAL:HG11	3:D:897:HIS:O	2.01	0.61
3:D:133:ARG:HH22	5:F:95:THR:HG22	1.64	0.61
1:G:217:ILE:O	1:G:220:ALA:HB3	2.00	0.61
2:I:1116:HIS:HE1	3:J:641:ILE:H	1.44	0.61
2:I:976:ARG:NH2	2:I:990:ASP:OD2	2.33	0.61
3:J:436:ALA:HB3	3:J:485:MET:HA	1.82	0.61
5:L:560:ARG:HA	5:L:565:ILE:HG23	1.83	0.61
1:B:101:THR:O	1:B:116:THR:HG22	2.01	0.61
1:B:286:GLU:HA	1:B:289:LEU:HB2	1.81	0.61
2:C:277:LEU:HD23	2:C:282:VAL:HG21	1.83	0.61
3:D:742:GLY:O	3:D:762:ASN:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:788:LEU:HD12	3:D:791:ALA:HB3	1.81	0.61
2:I:582:ASN:HB3	2:I:586:PHE:N	2.14	0.61
2:I:669:PRO:HB3	2:I:702:THR:HG22	1.81	0.61
3:J:1238:GLN:O	3:J:1242:ARG:N	2.21	0.61
3:J:847:ASP:OD1	3:J:860:ARG:HD2	2.00	0.61
3:J:903:LEU:CB	3:J:905:ARG:HG3	2.30	0.61
1:B:149:GLY:HA3	1:B:177:TYR:CE2	2.36	0.61
2:C:213:LEU:O	2:C:214:ASN:HB3	2.01	0.61
2:C:870:ILE:HG22	2:C:944:ARG:HH11	1.66	0.61
3:D:410:ASP:O	3:D:413:ASP:HB2	2.01	0.61
3:D:473:THR:O	3:D:477:GLN:HG3	2.01	0.61
3:D:805:GLN:HG2	3:D:806:ASP:H	1.65	0.61
5:F:291:CYS:O	5:F:295:CYS:HB2	2.01	0.61
5:F:595:LEU:HD23	5:F:595:LEU:H	1.65	0.61
1:G:201:LEU:HD12	1:G:202:VAL:N	2.15	0.61
1:G:124:VAL:HG11	1:G:210:THR:HG22	1.82	0.61
1:H:65:LEU:O	1:H:66:HIS:ND1	2.34	0.61
2:I:1018:TYR:OH	2:I:1022:LYS:NZ	2.25	0.61
2:I:29:SER:HB2	2:I:30:ILE:HD12	1.82	0.61
2:I:363:LEU:O	2:I:381:ALA:HB1	2.01	0.61
2:I:483:ASP:CB	2:I:486:THR:HG21	2.31	0.61
2:I:50:GLU:OE1	2:I:54:ARG:NE	2.34	0.61
2:I:551:HIS:CG	2:I:552:PRO:HD2	2.35	0.61
3:J:134:ASP:O	3:J:138:VAL:N	2.28	0.61
3:J:194:LEU:O	3:J:197:GLU:N	2.33	0.61
3:J:499:ILE:HG23	3:J:500:ILE:CD1	2.31	0.61
3:J:507:VAL:HG11	3:J:598:LYS:HG3	1.83	0.61
1:B:159:ILE:HG23	1:B:160:HIS:N	2.13	0.61
1:B:153:VAL:HB	1:B:175:ALA:HB3	1.82	0.61
2:C:16:GLY:O	2:C:1156:ARG:HG2	2.00	0.61
2:C:339:ASN:HB3	2:C:343:HIS:O	2.01	0.61
2:C:969:ALA:O	2:C:973:SER:N	2.27	0.61
2:C:97:ARG:NH2	5:F:475:GLY:HA3	2.15	0.61
3:D:197:GLU:O	3:D:201:LEU:N	2.28	0.61
3:D:44:ILE:HB	3:D:50:LYS:O	2.00	0.61
3:D:491:LEU:HB2	3:D:904:ALA:HA	1.82	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:CG	2.31	0.61
2:I:1080:ASN:HB2	2:I:1085:MET:CE	2.31	0.61
2:I:46:GLN:HG3	2:I:47:TYR:O	2.01	0.61
3:J:549:LYS:O	3:J:550:VAL:HG13	2.01	0.61
3:J:591:ILE:HG23	3:J:592:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:71:LEU:O	3:J:71:LEU:HD22	2.01	0.61
3:J:723:TYR:O	3:J:726:ALA:N	2.32	0.61
5:L:343:LYS:HA	5:L:346:GLN:HB3	1.81	0.61
5:L:427:PHE:CZ	5:L:431:ALA:HB2	2.36	0.61
2:C:198:ILE:HG22	2:C:199:ASP:CG	2.22	0.61
2:C:496:LYS:HD2	2:C:497:PRO:N	2.16	0.61
2:C:588:GLU:HG3	2:C:605:TYR:HD1	1.65	0.61
2:C:759:SER:OG	2:C:763:THR:N	2.31	0.61
3:D:1156:LEU:HD12	3:D:1208:ASP:O	2.01	0.61
3:D:1196:LEU:HD22	3:D:1196:LEU:N	2.16	0.61
3:D:651:HIS:HA	3:D:654:ILE:HD12	1.83	0.61
2:C:548:ARG:O	3:D:780:ARG:NH1	2.34	0.61
4:E:26:ARG:NH2	4:E:38:LEU:HD13	2.16	0.61
4:E:30:MET:HE1	4:E:49:ILE:HG22	1.82	0.61
5:F:231:THR:HG23	5:F:249:ILE:CG1	2.30	0.61
2:I:1051:LYS:HB3	2:I:1053:TYR:HE1	1.65	0.61
2:I:1160:ASP:HB2	2:I:1161:LEU:CA	2.31	0.61
2:I:1198:LEU:HD13	2:I:1198:LEU:O	1.99	0.61
2:I:184:LEU:HD12	2:I:185:ASP:H	1.66	0.61
2:I:207:THR:O	2:I:210:LEU:N	2.30	0.61
2:I:564:PRO:HG2	2:I:568:ASN:O	2.01	0.61
3:J:152:THR:HG21	3:J:176:PHE:HB2	1.81	0.61
3:J:267:ASP:HA	3:J:270:ARG:NH2	2.16	0.61
3:J:606:ASN:OD1	3:J:610:ARG:NE	2.34	0.61
3:J:709:ARG:HD2	3:J:710:ASP:N	2.15	0.61
3:J:859:PRO:HG2	3:J:862:THR:CG2	2.30	0.61
1:A:18:GLN:HA	1:A:24:ALA:HB2	1.83	0.60
1:A:39:LEU:O	1:A:43:LEU:HB2	2.01	0.60
1:A:45:ARG:NH2	2:C:1216:ARG:HA	2.16	0.60
1:B:190:ALA:N	1:B:198:LEU:O	2.32	0.60
2:C:1156:ARG:HH11	2:C:1156:ARG:HB3	1.65	0.60
2:C:560:PRO:HD3	2:C:660:VAL:O	2.01	0.60
2:C:91:THR:OG1	2:C:138:ILE:HD12	2.00	0.60
3:D:1194:ARG:N	3:D:1194:ARG:HD2	2.15	0.60
3:D:358:GLY:O	3:D:361:LEU:HD12	2.01	0.60
3:D:795:TYR:O	3:D:799:ARG:HG3	2.01	0.60
1:G:224:LEU:HD22	1:H:228:LEU:HD11	1.81	0.60
2:I:1164:PHE:C	2:I:1166:ASP:H	2.04	0.60
2:I:1214:ASP:HB2	2:I:1221:PHE:CZ	2.36	0.60
2:I:1302:THR:HG22	5:L:531:PRO:HB3	1.83	0.60
3:J:1193:TRP:HB2	3:J:1194:ARG:NH1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1257:VAL:O	3:J:1261:LEU:HD12	2.01	0.60
3:J:1262:ARG:HG3	3:J:1281:GLU:CD	2.21	0.60
3:J:1319:PHE:CD1	3:J:1320:ILE:N	2.69	0.60
3:J:111:THR:HG21	3:J:303:VAL:HG21	1.83	0.60
3:J:45:ASN:HA	3:J:52:GLU:OE1	2.01	0.60
3:J:848:VAL:HB	3:J:857:LEU:CD1	2.31	0.60
3:J:844:THR:OG1	3:J:860:ARG:O	2.14	0.60
5:L:346:GLN:O	5:L:350:GLU:HG3	2.01	0.60
5:L:445:ASP:OD1	5:L:445:ASP:N	2.34	0.60
2:C:1078:LYS:HE2	2:C:1080:ASN:OD1	2.01	0.60
2:C:242:VAL:O	2:C:245:ARG:HB2	2.00	0.60
2:C:338:THR:CG2	2:C:345:PRO:HB3	2.32	0.60
2:C:693:LEU:HD23	2:C:693:LEU:C	2.21	0.60
3:D:317:THR:HG21	3:D:320:ASN:HB3	1.83	0.60
3:D:355:ILE:O	3:D:355:ILE:HG13	2.01	0.60
3:D:53:ARG:CZ	3:D:60:ARG:HD2	2.31	0.60
5:F:354:THR:O	5:F:358:VAL:HG13	2.00	0.60
2:I:1180:MET:HG2	2:I:1181:PRO:HD2	1.81	0.60
2:I:201:ARG:HH11	2:I:201:ARG:HG2	1.65	0.60
2:I:206:ALA:O	2:I:209:ILE:HG22	1.99	0.60
3:J:1323:ALA:HB2	3:J:1331:VAL:HG11	1.83	0.60
3:J:557:LYS:HD3	3:J:611:ILE:HG23	1.83	0.60
3:J:61:ILE:O	3:J:101:ARG:HD2	2.01	0.60
5:L:448:ARG:HD2	5:L:452:ILE:HD12	1.83	0.60
5:L:543:ALA:O	5:L:547:VAL:HG23	2.00	0.60
1:B:152:TYR:HD1	1:B:176:CYS:HA	1.66	0.60
1:B:85:LEU:HD23	1:B:85:LEU:N	2.17	0.60
2:C:1327:LEU:H	2:C:1327:LEU:HD12	1.65	0.60
3:D:1234:VAL:HG23	3:D:1235:ASN:N	2.16	0.60
3:D:1234:VAL:HA	3:D:1237:VAL:CG1	2.29	0.60
3:D:1274:PHE:CE2	3:D:1275:LEU:HB3	2.37	0.60
3:D:1280:VAL:HG13	3:D:1284:ARG:CD	2.30	0.60
3:D:1314:LEU:HD11	3:D:1326:GLN:CB	2.31	0.60
3:D:18:ASP:HB2	3:D:1373:ARG:HH21	1.66	0.60
3:D:357:VAL:HG12	3:D:358:GLY:H	1.65	0.60
5:F:423:ARG:HG2	5:F:425:TYR:HE1	1.65	0.60
1:G:197:ASP:O	1:G:198:LEU:HD23	2.01	0.60
2:I:1301:ARG:O	2:I:1304:MET:HB3	2.01	0.60
2:I:22:LEU:HD22	2:I:23:ASP:N	2.16	0.60
2:I:360:LEU:HA	2:I:363:LEU:HB2	1.83	0.60
2:I:557:ARG:HH21	2:I:608:ALA:CA	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:687:ARG:O	2:I:689:ALA:N	2.31	0.60
2:I:742:TYR:HD2	2:I:743:PRO:HD2	1.65	0.60
3:D:1227:HIS:HB2	3:J:1293:GLU:OE1	2.01	0.60
3:J:772:TYR:O	3:J:775:SER:HB3	2.01	0.60
5:L:494:ILE:O	5:L:497:VAL:N	2.34	0.60
5:L:511:ILE:CG2	5:L:517:SER:HB2	2.31	0.60
5:L:536:THR:OG1	5:L:537:THR:N	2.34	0.60
1:A:36:GLY:HA3	1:A:187:VAL:HG11	1.84	0.60
2:C:560:PRO:HG3	3:D:773:PHE:HE2	1.65	0.60
3:D:1140:ARG:HA	3:D:1143:ASP:OD2	2.00	0.60
3:D:1219:ASP:O	3:D:1222:ARG:N	2.35	0.60
3:D:1323:ALA:HA	3:D:1331:VAL:HG21	1.83	0.60
3:D:379:PRO:O	3:D:382:TYR:N	2.33	0.60
3:D:396:ALA:O	3:D:399:LYS:N	2.34	0.60
3:D:582:ILE:HD11	3:D:623:GLN:HB3	1.84	0.60
3:D:709:ARG:HD2	3:D:710:ASP:N	2.17	0.60
5:F:491:GLU:O	5:F:494:ILE:HB	2.01	0.60
1:G:115:ILE:HG22	1:G:116:THR:N	2.16	0.60
2:I:237:LEU:CG	2:I:292:ILE:HD11	2.31	0.60
3:J:194:LEU:CD2	3:J:224:LEU:HD21	2.31	0.60
3:J:408:VAL:HA	3:J:411:ILE:HG12	1.81	0.60
3:J:450:HIS:HE1	3:J:452:LEU:HD12	1.65	0.60
4:K:42:GLU:C	4:K:44:ASP:H	2.05	0.60
5:L:240:ARG:O	5:L:242:HIS:N	2.34	0.60
5:L:483:LEU:HD23	5:L:487:MET:HG3	1.83	0.60
2:C:1247:SER:HB3	3:D:375:GLU:O	2.00	0.60
2:C:159:SER:O	2:C:160:ASP:HB2	2.00	0.60
2:C:592:ARG:O	2:C:652:TYR:HD2	1.85	0.60
3:D:1165:PHE:CE2	3:D:1175:LEU:HD13	2.37	0.60
3:D:212:THR:HA	3:D:215:LYS:NZ	2.16	0.60
3:D:750:PRO:HA	3:D:777:HIS:NE2	2.16	0.60
5:F:128:ASN:CA	5:F:131:GLN:HB2	2.30	0.60
5:F:400:GLN:O	5:F:403:ASP:HB2	2.01	0.60
5:F:574:GLU:O	5:F:577:GLY:N	2.35	0.60
1:G:12:ARG:H	1:G:30:PRO:CD	2.12	0.60
1:G:90:VAL:N	1:G:210:THR:HG21	2.16	0.60
2:I:101:ARG:HG3	2:I:118:LYS:HG3	1.83	0.60
2:I:1275:VAL:O	2:I:1278:LEU:HB2	2.01	0.60
3:J:225:GLU:HA	3:J:228:VAL:HG23	1.82	0.60
3:J:577:ALA:HA	3:J:589:TYR:OH	2.01	0.60
3:J:661:VAL:HG12	3:J:685:ILE:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:706:VAL:HA	3:J:715:LYS:HA	1.84	0.60
3:J:848:VAL:CG1	3:J:857:LEU:HD11	2.32	0.60
5:L:213:ASP:O	5:L:216:LEU:HB3	2.00	0.60
1:B:67:GLU:OE2	1:B:172:LEU:HD13	2.01	0.60
1:B:76:GLU:HB3	1:B:80:GLU:HG2	1.84	0.60
1:B:9:LEU:HB2	1:B:32:GLU:CG	2.31	0.60
2:C:1276:TRP:HA	2:C:1279:GLU:OE1	2.01	0.60
2:C:90:VAL:HG12	2:C:91:THR:N	2.14	0.60
3:D:1163:VAL:HG22	3:D:1164:SER:H	1.66	0.60
3:D:237:MET:O	3:D:238:ILE:HD13	2.01	0.60
3:D:694:SER:HB2	3:D:738:ARG:CD	2.26	0.60
3:D:848:VAL:HG13	3:D:857:LEU:HB2	1.82	0.60
4:E:27:ALA:O	4:E:30:MET:N	2.30	0.60
1:G:188:GLU:O	1:G:200:LYS:N	2.30	0.60
2:I:395:TYR:HE2	2:I:397:LEU:HD11	1.64	0.60
3:J:1167:LYS:HB3	3:J:1174:ARG:HD3	1.83	0.60
3:J:289:ASP:HA	3:J:292:VAL:CG2	2.31	0.60
3:J:627:THR:HG23	3:J:628:GLY:H	1.66	0.60
3:J:708:ASN:OD1	3:J:708:ASN:N	2.35	0.60
4:K:14:GLY:C	4:K:16:ARG:H	2.05	0.60
3:J:263:SER:HB2	5:L:507:MET:CE	2.32	0.60
1:A:182:ARG:O	1:A:183:ILE:HD12	2.02	0.60
1:A:39:LEU:HD23	1:A:39:LEU:N	2.17	0.60
1:B:149:GLY:HA3	1:B:177:TYR:CZ	2.36	0.60
1:B:61:ILE:CG2	1:B:63:GLY:H	2.15	0.60
2:C:1129:ASN:OD1	2:C:1177:ARG:NH2	2.25	0.60
2:C:39:ILE:O	2:C:40:GLU:HB2	2.01	0.60
3:D:227:PHE:O	3:D:230:SER:HB3	2.00	0.60
3:D:290:ILE:CD1	3:D:290:ILE:H	2.15	0.60
3:D:352:ARG:CB	3:D:467:ALA:HA	2.32	0.60
3:D:749:LYS:HB2	3:D:750:PRO:CD	2.32	0.60
3:J:495:ASN:ND2	3:J:497:GLU:HB2	2.17	0.60
3:D:1371:ARG:HD2	3:J:856:ILE:CG1	2.29	0.60
5:L:137:TYR:CE2	5:L:139:GLU:HB2	2.36	0.60
2:C:1043:ALA:HB1	2:C:1044:PRO:CD	2.32	0.60
2:C:805:MET:HE1	2:C:1221:PHE:CE1	2.37	0.60
2:C:557:ARG:NH1	2:C:611:GLU:OE1	2.34	0.60
3:D:609:TYR:HA	3:D:617:THR:OG1	2.02	0.60
3:D:707:ILE:H	3:D:707:ILE:HD12	1.67	0.60
3:D:824:PRO:CB	3:D:835:LEU:HB2	2.32	0.60
5:F:500:ILE:HG22	5:F:500:ILE:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:ALA:HA	1:G:158:ARG:HG3	1.84	0.60
2:I:145:ILE:CG2	2:I:456:VAL:HG22	2.31	0.60
2:I:289:VAL:HG13	2:I:319:LEU:CD1	2.30	0.60
2:I:411:ARG:HG3	2:I:411:ARG:HH11	1.65	0.60
3:J:245:LEU:HG	3:J:246:PRO:HD2	1.84	0.60
3:J:368:LEU:O	3:J:442:ILE:HB	2.00	0.60
3:J:704:GLU:O	3:J:706:VAL:N	2.34	0.60
3:J:818:GLU:CG	3:J:887:SER:HB2	2.31	0.60
3:J:488:ASN:ND2	4:K:6:VAL:HG11	2.13	0.60
5:L:246:GLN:O	5:L:249:ILE:HB	2.02	0.60
1:B:47:LEU:HB3	1:B:180:VAL:HG11	1.83	0.60
1:B:45:ARG:HB3	1:B:45:ARG:NH1	2.17	0.60
2:C:15:PHE:HE1	2:C:1194:GLU:HB3	1.67	0.60
2:C:1315:MET:HE2	2:C:1317:PRO:HD3	1.84	0.60
2:C:178:PRO:HB3	2:C:395:TYR:CE2	2.37	0.60
2:C:27:LEU:HD12	2:C:711:ASP:HB2	1.83	0.60
2:C:468:LEU:O	2:C:471:VAL:HG12	2.01	0.60
2:C:703:GLY:N	2:C:705:GLU:OE2	2.33	0.60
2:C:1281:TYR:CE2	3:D:431:ARG:HB2	2.36	0.60
3:D:509:GLY:O	3:D:512:TYR:HB3	2.02	0.60
2:I:557:ARG:O	2:I:576:SER:HB2	2.02	0.60
3:J:287:ALA:HB3	3:J:292:VAL:HG12	1.82	0.60
3:J:848:VAL:HG12	3:J:857:LEU:HD11	1.84	0.60
1:B:112:ALA:HB3	1:B:126:PRO:CA	2.13	0.60
2:C:1018:TYR:O	2:C:1021:LEU:N	2.35	0.60
2:C:1104:PRO:HG2	3:D:725:MET:SD	2.42	0.60
2:C:1315:MET:CE	2:C:1317:PRO:HD3	2.31	0.60
2:C:208:ILE:CG2	2:C:362:ALA:HB1	2.32	0.60
2:C:395:TYR:CE2	2:C:420:LEU:HD21	2.36	0.60
2:C:556:GLY:O	2:C:589:THR:HB	2.01	0.60
3:D:1149:ARG:HG2	3:D:1150:PRO:O	2.02	0.60
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.17	0.60
3:D:1319:PHE:C	3:D:1319:PHE:CD1	2.75	0.60
3:D:230:SER:OG	3:D:231:GLY:N	2.32	0.60
3:D:654:ILE:O	3:D:658:GLU:HB2	2.01	0.60
3:D:755:ILE:HD12	3:D:774:ILE:HG21	1.83	0.60
3:D:825:VAL:HG22	3:D:833:GLU:H	1.66	0.60
3:D:884:SER:O	3:D:887:SER:OG	2.17	0.60
3:D:899:TYR:CE1	3:D:915:ILE:HG21	2.37	0.60
4:E:48:VAL:O	4:E:51:LEU:N	2.34	0.60
4:E:25:ARG:HD3	4:E:64:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:ILE:HG12	5:F:330:LEU:HB2	1.82	0.60
1:G:134:THR:HG23	2:I:726:TYR:HE1	1.64	0.60
1:H:101:THR:H	1:H:116:THR:HG21	1.67	0.60
1:H:67:GLU:C	1:H:78:ILE:HD13	2.22	0.60
2:I:1160:ASP:CB	2:I:1161:LEU:CA	2.79	0.60
2:I:1176:LEU:HD23	2:I:1176:LEU:N	2.15	0.60
2:I:1291:LEU:HD11	3:J:1351:VAL:HG13	1.83	0.60
2:I:13:LYS:O	2:I:1183:ALA:N	2.35	0.60
2:I:1259:LEU:HD12	3:J:346:ARG:HH12	1.65	0.60
1:A:57:THR:HG23	1:A:158:ARG:NH2	2.17	0.59
1:B:100:LEU:HD23	1:B:115:ILE:HG22	1.82	0.59
2:C:1182:ILE:HG22	2:C:1183:ALA:N	2.17	0.59
2:C:1286:THR:O	2:C:1290:MET:HB2	2.02	0.59
2:C:1325:VAL:HG12	2:C:1326:LEU:N	2.17	0.59
2:C:237:LEU:O	2:C:238:GLN:HG3	2.01	0.59
2:C:57:PHE:HD1	2:C:70:TYR:CB	2.14	0.59
3:D:537:TYR:O	3:D:540:GLY:N	2.30	0.59
2:I:541:GLU:N	2:I:541:GLU:OE1	2.35	0.59
2:I:756:TYR:CD1	2:I:756:TYR:N	2.69	0.59
3:J:1167:LYS:CE	3:J:1170:LYS:HB2	2.32	0.59
3:J:115:TRP:CE2	3:J:1329:THR:HG23	2.37	0.59
3:J:294:ASN:HB2	5:L:101:TYR:CD1	2.37	0.59
3:J:320:ASN:ND2	3:J:322:ARG:HB3	2.17	0.59
3:J:358:GLY:N	3:J:359:PRO:HD3	2.14	0.59
2:I:1285:TYR:HB2	3:J:479:GLU:CD	2.22	0.59
3:J:522:GLY:O	3:J:525:MET:HG2	2.02	0.59
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.83	0.59
1:B:136:GLU:CD	1:B:137:ASN:H	2.06	0.59
1:B:228:LEU:N	1:B:228:LEU:HD23	2.17	0.59
2:C:745:GLU:N	2:C:1017:GLN:HG3	2.17	0.59
2:C:1164:PHE:N	2:C:1168:GLU:OE1	2.24	0.59
2:C:1191:LYS:HE2	2:C:1192:GLU:HB2	1.82	0.59
2:C:5:TYR:C	2:C:7:GLU:N	2.54	0.59
3:D:1135:THR:HG23	3:D:1140:ARG:HD3	1.84	0.59
3:D:113:HIS:HE1	3:D:115:TRP:HB2	1.60	0.59
3:D:108:ALA:HB1	3:D:279:LEU:CD2	2.31	0.59
3:D:317:THR:CG2	3:D:320:ASN:HB3	2.32	0.59
3:D:342:LEU:O	3:D:343:LEU:C	2.41	0.59
2:C:1271:GLY:HA2	3:D:344:GLY:HA3	1.84	0.59
5:F:137:TYR:HB3	5:F:140:ALA:HB2	1.82	0.59
5:F:380:VAL:HG13	5:F:381:GLU:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:LYS:HG3	1:H:105:SER:N	2.16	0.59
3:J:357:VAL:HA	3:J:461:PHE:CE1	2.37	0.59
3:J:734:ALA:HA	3:J:737:ILE:CG1	2.33	0.59
3:J:920:ALA:O	3:J:923:ILE:HB	2.02	0.59
5:L:505:ILE:HD12	5:L:506:SER:H	1.67	0.59
1:B:154:PRO:O	1:B:174:ASP:HA	2.01	0.59
2:C:685:MET:HE2	2:C:1071:GLY:HA2	1.84	0.59
2:C:1076:ILE:HD12	2:C:1076:ILE:C	2.23	0.59
2:C:1158:LYS:O	2:C:1159:VAL:HG13	2.02	0.59
2:C:1191:LYS:NZ	2:C:1193:ALA:HB2	2.17	0.59
2:C:724:VAL:CG1	2:C:727:VAL:CG2	2.79	0.59
2:C:741:MET:SD	2:C:974:ARG:NH2	2.75	0.59
3:D:1155:ILE:CD1	3:D:1211:SER:HB3	2.33	0.59
3:D:317:THR:N	3:D:322:ARG:O	2.35	0.59
3:D:506:VAL:O	3:D:509:GLY:N	2.35	0.59
3:D:922:SER:O	3:D:1248:ILE:HD11	2.03	0.59
5:F:333:VAL:CG2	5:F:336:GLU:HB2	2.31	0.59
1:H:112:ALA:HA	1:H:130:ILE:CD1	2.32	0.59
2:I:17:LYS:N	2:I:1188:ASP:OD2	2.36	0.59
3:J:905:ARG:HH11	4:K:16:ARG:HB2	1.67	0.59
5:L:227:GLN:HG2	5:L:255:VAL:HG21	1.84	0.59
5:L:292:VAL:HG11	5:L:299:LYS:CE	2.32	0.59
1:B:182:ARG:HG2	1:B:183:ILE:H	1.65	0.59
2:C:1293:VAL:CG1	2:C:1301:ARG:HA	2.29	0.59
2:C:367:TYR:O	2:C:371:ARG:N	2.34	0.59
2:C:202:ARG:HH11	2:C:369:MET:CG	2.15	0.59
2:C:36:GLN:HG3	2:C:40:GLU:OE2	2.02	0.59
2:C:45:GLY:O	2:C:51:ALA:HB2	2.02	0.59
2:C:94:ALA:N	2:C:129:LEU:HD11	2.18	0.59
3:D:1219:ASP:OD1	3:D:1222:ARG:NH2	2.34	0.59
3:D:174:ASP:O	3:D:175:GLU:HG2	2.03	0.59
3:D:215:LYS:CE	3:D:216:LYS:HG3	2.32	0.59
2:C:1272:GLU:CB	3:D:342:LEU:HD12	2.21	0.59
5:F:122:ARG:NH2	5:F:378:GLU:OE1	2.35	0.59
1:G:191:ARG:HH12	1:G:197:ASP:CA	2.15	0.59
1:H:18:GLN:HB3	1:H:24:ALA:CB	2.32	0.59
2:I:1256:GLN:O	2:I:1301:ARG:NH2	2.35	0.59
2:I:273:HIS:HA	2:I:276:GLN:OE1	2.02	0.59
2:I:368:ARG:O	2:I:372:PRO:HB3	2.02	0.59
2:I:62:TYR:C	2:I:64:GLY:H	2.04	0.59
2:I:10:ARG:NH1	2:I:697:LYS:HD3	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1154:ALA:HB1	3:J:1211:SER:O	2.03	0.59
3:J:290:ILE:HD12	3:J:290:ILE:H	1.67	0.59
3:J:536:LEU:HD12	3:J:542:ALA:N	2.17	0.59
5:L:401:PHE:O	5:L:403:ASP:N	2.35	0.59
5:L:498:LEU:N	5:L:498:LEU:HD22	2.16	0.59
1:A:22:THR:O	1:A:207:THR:N	2.31	0.59
1:B:89:ALA:HB1	1:B:124:VAL:H	1.66	0.59
2:C:689:ALA:CB	2:C:1233:LEU:HD23	2.33	0.59
2:C:242:VAL:HB	2:C:245:ARG:HD2	1.85	0.59
2:C:303:ASP:O	2:C:307:GLY:N	2.36	0.59
2:C:817:LEU:HD22	2:C:818:VAL:N	2.17	0.59
3:D:1156:LEU:CA	3:D:1210:ILE:HG12	2.32	0.59
3:D:1252:HIS:C	3:D:1255:VAL:HG13	2.23	0.59
2:I:701:GLY:O	2:I:1184:THR:N	2.34	0.59
2:I:1281:TYR:CE1	3:J:484:MET:HE2	2.37	0.59
2:I:22:LEU:HD22	2:I:23:ASP:H	1.66	0.59
2:I:484:LEU:O	2:I:486:THR:HG22	2.03	0.59
2:I:4:SER:HB3	2:I:7:GLU:HG3	1.83	0.59
2:I:896:THR:HB	2:I:897:PRO:HD2	1.82	0.59
3:J:1252:HIS:O	3:J:1255:VAL:HG13	2.03	0.59
1:A:100:LEU:CD2	1:A:115:ILE:HG21	2.29	0.59
1:A:80:GLU:O	1:A:84:ASN:ND2	2.35	0.59
1:B:182:ARG:NH1	3:D:534:GLU:OE1	2.36	0.59
1:B:278:ILE:O	1:B:281:LEU:N	2.35	0.59
1:A:45:ARG:NH2	2:C:1215:GLY:O	2.35	0.59
2:C:164:THR:HG21	2:C:171:LEU:HD12	1.84	0.59
2:C:338:THR:HB	2:C:345:PRO:HB3	1.84	0.59
5:F:490:PRO:HG2	5:F:493:LYS:CB	2.33	0.59
1:G:195:ARG:HG2	1:G:198:LEU:CG	2.33	0.59
1:G:191:ARG:HH12	1:G:198:LEU:N	1.99	0.59
2:I:810:TYR:CD1	2:I:1078:LYS:HD2	2.36	0.59
2:I:815:SER:CB	3:J:461:PHE:HD1	2.14	0.59
2:I:82:VAL:HA	2:I:92:TYR:HD1	1.68	0.59
3:J:288:PRO:HG2	3:J:291:ILE:HD12	1.84	0.59
5:L:412:LEU:HB2	5:L:435:ILE:CD1	2.24	0.59
3:J:399:LYS:NZ	5:L:609:SER:OG	2.34	0.59
1:A:102:LEU:HB3	1:A:142:MET:HG2	1.83	0.59
2:C:65:ASN:O	2:C:105:TYR:HD2	1.85	0.59
2:C:743:PRO:O	2:C:974:ARG:NH1	2.36	0.59
3:D:1368:ASP:HA	3:D:1371:ARG:HH22	1.67	0.59
3:D:342:LEU:O	3:D:344:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:511:TYR:C	3:D:511:TYR:CD1	2.76	0.59
3:D:572:THR:HG23	3:D:573:THR:O	2.03	0.59
3:D:683:ILE:O	3:D:683:ILE:HG12	2.02	0.59
5:F:242:HIS:C	5:F:246:GLN:HB2	2.22	0.59
1:G:130:ILE:N	1:G:130:ILE:HD12	2.18	0.59
1:G:60:GLU:HG2	1:G:143:ARG:HH21	1.67	0.59
1:H:206:GLU:OE1	3:J:531:LYS:NZ	2.26	0.59
2:I:559:CYS:HG	2:I:662:SER:CB	2.15	0.59
3:J:275:ARG:HH21	5:L:400:GLN:HE21	1.49	0.59
1:A:152:TYR:HD2	1:A:154:PRO:HD3	1.68	0.59
1:B:197:ASP:C	1:B:198:LEU:HD22	2.21	0.59
2:C:1115:THR:CG2	2:C:1228:GLY:HA3	2.32	0.59
2:C:216:THR:O	2:C:220:ILE:HG13	2.03	0.59
3:D:120:LEU:HD13	3:D:121:PRO:N	2.18	0.59
3:D:218:THR:HG21	3:D:1275:LEU:HD21	1.85	0.59
3:D:259:ARG:CZ	5:F:502:LYS:HD3	2.32	0.59
3:D:47:ARG:NH1	5:F:496:LYS:HE2	2.18	0.59
3:D:53:ARG:NH1	3:D:60:ARG:HD2	2.18	0.59
5:F:120:ALA:HA	5:F:123:ILE:HD12	1.85	0.59
5:F:512:GLY:O	5:F:513:ASP:HB3	2.03	0.59
2:I:1042:LEU:CB	2:I:1046:VAL:HG21	2.32	0.59
2:I:122:VAL:HG23	5:L:472:GLN:HG2	1.85	0.59
2:I:1237:HIS:HB3	2:I:1242:LYS:HE3	1.84	0.59
2:I:742:TYR:O	2:I:974:ARG:NH2	2.35	0.59
3:J:684:ASP:O	3:J:687:ALA:N	2.35	0.59
3:J:504:GLN:OE1	3:J:731:ARG:NH1	2.35	0.59
4:K:6:VAL:HG23	4:K:10:VAL:HG23	1.84	0.59
5:L:138:PRO:CD	5:L:353:LEU:HD11	2.33	0.59
1:B:154:PRO:C	1:B:174:ASP:HA	2.24	0.59
1:B:255:ARG:O	1:B:277:TYR:HB3	2.02	0.59
1:B:301:THR:HA	1:B:304:LYS:HE2	1.84	0.59
2:C:1113:LEU:HD11	3:D:641:ILE:HG12	1.83	0.59
2:C:517:GLN:HE21	2:C:759:SER:CA	2.13	0.59
2:C:91:THR:HG21	2:C:503:LYS:CE	2.32	0.59
3:D:37:GLU:HG3	3:D:105:ILE:HA	1.85	0.59
3:D:1314:LEU:CD1	3:D:1326:GLN:CB	2.80	0.59
3:D:30:ILE:HG12	3:D:33:TRP:CZ3	2.37	0.59
3:D:471:PRO:HB3	3:D:476:ALA:HB1	1.85	0.59
3:D:658:GLU:O	3:D:661:VAL:HG22	2.03	0.59
5:F:279:ARG:HH22	5:F:350:GLU:CD	2.05	0.59
5:F:347:ILE:HG22	5:F:351:THR:CG2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:200:ARG:HH11	2:I:200:ARG:HG2	1.67	0.59
2:I:39:ILE:HD12	2:I:75:LEU:HG	1.85	0.59
2:I:882:ILE:HD11	2:I:919:ARG:HH12	1.67	0.59
3:J:1140:ARG:HD2	3:J:1140:ARG:O	2.02	0.59
5:L:381:GLU:O	5:L:384:LEU:HG	2.02	0.59
1:B:63:GLY:HA3	1:B:71:LYS:CE	2.31	0.59
2:C:1018:TYR:CE2	2:C:1022:LYS:HD3	2.38	0.59
2:C:1082:ILE:CD1	2:C:1082:ILE:H	2.08	0.59
2:C:119:GLU:HG3	2:C:488:MET:CB	2.28	0.59
2:C:15:PHE:CE1	2:C:1194:GLU:HB3	2.38	0.59
2:C:551:HIS:H	2:C:554:HIS:HD2	1.49	0.59
2:C:524:ILE:CD1	2:C:712:SER:HB2	2.32	0.59
3:D:1169:THR:HG22	3:D:1169:THR:O	2.02	0.59
2:C:1333:LEU:CD2	3:D:307:LEU:HD22	2.33	0.59
3:D:892:PHE:HZ	3:D:1282:TYR:CE1	2.19	0.59
5:F:444:ALA:HB1	5:F:457:ILE:HG13	1.85	0.59
5:F:552:THR:OG1	5:F:555:GLU:HG3	2.01	0.59
1:G:152:TYR:HB2	2:I:824:GLN:NE2	2.18	0.59
1:H:57:THR:HG21	1:H:158:ARG:HH21	1.68	0.59
2:I:287:VAL:HG23	2:I:288:PRO:O	2.03	0.59
3:J:1159:ILE:HG22	3:J:1177:ILE:HD13	1.85	0.59
3:J:117:LEU:C	3:J:118:LYS:HG2	2.22	0.59
5:L:137:TYR:HD1	5:L:138:PRO:HD2	1.67	0.59
5:L:228:TYR:O	5:L:231:THR:N	2.36	0.59
1:A:172:LEU:N	1:A:172:LEU:HD12	2.18	0.58
1:B:100:LEU:HG	1:B:116:THR:CG2	2.33	0.58
1:B:289:LEU:O	1:B:295:LEU:HD22	2.02	0.58
2:C:1272:GLU:OE2	3:D:341:ASN:HA	2.02	0.58
3:D:130:MET:HE2	3:D:135:ILE:HG12	1.85	0.58
3:D:146:VAL:HG23	3:D:158:GLN:O	2.03	0.58
3:D:215:LYS:O	3:D:219:LYS:HE3	2.03	0.58
3:D:227:PHE:CZ	3:D:234:PRO:HG3	2.37	0.58
3:D:744:ARG:HG3	3:D:744:ARG:O	2.03	0.58
5:F:292:VAL:HG11	5:F:299:LYS:CG	2.33	0.58
5:F:494:ILE:O	5:F:497:VAL:HB	2.03	0.58
1:H:101:THR:CG2	1:H:116:THR:HG21	2.32	0.58
2:I:1088:ASP:OD2	2:I:1092:THR:OG1	2.21	0.58
2:I:1105:SER:HA	3:J:736:GLN:NE2	2.18	0.58
2:I:1124:ILE:O	2:I:1127:LYS:HB2	2.03	0.58
2:I:13:LYS:HD2	2:I:14:ASP:N	2.18	0.58
2:I:519:ASN:HD21	2:I:796:LEU:CD2	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:688:GLN:CB	2:I:1235:LEU:HD22	2.33	0.58
2:I:895:LEU:HD13	2:I:900:LYS:N	2.18	0.58
3:J:1241:TYR:HD2	3:J:1246:VAL:HG12	1.68	0.58
3:J:22:ILE:CD1	3:J:1336:ALA:HB2	2.33	0.58
3:J:279:LEU:HD12	3:J:295:GLU:CG	2.32	0.58
3:J:580:TRP:HH2	3:J:587:LEU:O	1.86	0.58
3:J:616:PRO:O	3:J:620:PHE:HB2	2.03	0.58
3:J:668:PHE:HA	3:J:673:VAL:HG23	1.84	0.58
3:J:746:LEU:HD23	3:J:758:PRO:HG3	1.85	0.58
5:L:287:ILE:CG2	5:L:315:TRP:HH2	2.16	0.58
1:A:100:LEU:HB3	1:A:115:ILE:HG21	1.85	0.58
1:B:79:LEU:O	1:B:82:LEU:HB2	2.03	0.58
2:C:104:ILE:O	2:C:114:VAL:N	2.35	0.58
2:C:1322:SER:OG	2:C:1323:PHE:N	2.36	0.58
2:C:460:ALA:O	2:C:463:GLN:N	2.36	0.58
3:D:117:LEU:CA	3:D:124:ILE:HD12	2.32	0.58
3:D:123:ARG:HH12	3:D:1334:GLU:HG3	1.67	0.58
3:D:24:LEU:HB2	3:D:232:ASN:OD1	2.04	0.58
3:D:872:LEU:HB3	3:D:877:VAL:HG11	1.84	0.58
5:F:563:PHE:O	5:F:565:ILE:N	2.36	0.58
5:F:572:THR:O	5:F:576:VAL:HG23	2.04	0.58
1:G:49:SER:OG	1:G:50:SER:N	2.37	0.58
1:G:80:GLU:O	1:G:84:ASN:ND2	2.36	0.58
2:I:1012:GLU:O	2:I:1016:GLU:HG3	2.02	0.58
2:I:688:GLN:HB2	2:I:1235:LEU:CD2	2.34	0.58
2:I:156:PHE:CE2	2:I:158:ASP:HB2	2.38	0.58
2:I:677:ASN:O	2:I:681:MET:HG3	2.03	0.58
2:I:974:ARG:HB3	2:I:1014:LEU:HD21	1.85	0.58
3:J:502:PRO:HB3	3:J:506:VAL:CG2	2.33	0.58
3:J:545:HIS:CD2	3:J:719:PHE:HZ	2.21	0.58
5:L:108:VAL:HG22	5:L:385:ARG:NH2	2.18	0.58
5:L:292:VAL:HG11	5:L:299:LYS:HE2	1.84	0.58
1:A:43:LEU:CD1	1:A:203:ILE:HD11	2.33	0.58
1:B:124:VAL:CG1	1:B:125:LYS:HG3	2.33	0.58
1:B:156:SER:N	1:B:157:THR:OG1	2.36	0.58
2:C:202:ARG:HH22	2:C:368:ARG:HH22	1.49	0.58
2:C:245:ARG:NH2	2:C:337:PHE:HD2	2.01	0.58
2:C:850:ILE:O	2:C:850:ILE:HG22	2.03	0.58
3:D:1154:ALA:N	3:D:1214:PRO:O	2.30	0.58
3:D:126:LEU:HD12	3:D:127:LEU:N	2.18	0.58
3:D:418:GLU:OE2	4:E:44:ASP:HA	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:436:ALA:HB3	3:D:485:MET:HA	1.85	0.58
3:D:648:GLU:OE2	3:D:649:LYS:HE2	2.03	0.58
3:D:748:ALA:CB	3:D:754:ILE:HA	2.33	0.58
3:D:925:GLU:HB3	3:D:926:PRO:HD3	1.85	0.58
3:D:140:TYR:HD2	5:F:100:MET:HE1	1.69	0.58
5:F:113:ARG:HA	5:F:116:GLU:OE1	2.03	0.58
5:F:231:THR:O	5:F:235:ILE:HG13	2.04	0.58
5:F:238:LYS:HE2	5:F:242:HIS:CE1	2.37	0.58
5:F:537:THR:O	5:F:540:LEU:N	2.33	0.58
1:H:61:ILE:HG23	1:H:142:MET:CE	2.32	0.58
2:I:1144:PHE:HA	2:I:1147:ARG:HG3	1.85	0.58
2:I:531:SER:OG	2:I:533:LEU:HB2	2.03	0.58
2:I:563:THR:HG23	2:I:564:PRO:N	2.17	0.58
2:I:665:ALA:O	2:I:667:LEU:N	2.36	0.58
3:J:62:PHE:O	3:J:101:ARG:HG3	2.03	0.58
3:J:31:ARG:NH2	3:J:106:GLU:OE2	2.28	0.58
3:J:1162:ILE:HG23	3:J:1178:THR:HB	1.85	0.58
3:J:261:ALA:HA	5:L:505:ILE:O	2.03	0.58
3:J:378:LYS:HB3	3:J:379:PRO:HD3	1.85	0.58
3:J:511:TYR:CD1	3:J:511:TYR:C	2.76	0.58
4:K:32:VAL:O	4:K:32:VAL:HG12	2.03	0.58
5:L:491:GLU:O	5:L:494:ILE:HB	2.03	0.58
5:L:584:ARG:O	5:L:587:ILE:HG22	2.03	0.58
1:A:57:THR:O	1:A:173:VAL:HG22	2.03	0.58
2:C:69:GLN:NE2	2:C:101:ARG:HD2	2.16	0.58
2:C:1308:ILE:HG23	3:D:380:PHE:CD2	2.39	0.58
2:C:218:GLU:HG3	2:C:299:LYS:HA	1.85	0.58
2:C:517:GLN:N	2:C:761:GLN:OE1	2.35	0.58
2:C:592:ARG:HA	2:C:603:ILE:HG22	1.83	0.58
2:C:737:ASN:O	2:C:740:GLU:N	2.30	0.58
3:D:215:LYS:HE2	3:D:216:LYS:HG3	1.85	0.58
3:D:339:ARG:CB	3:D:340:GLN:CA	2.80	0.58
3:D:343:LEU:HD13	5:F:515:GLU:OE1	2.03	0.58
3:D:90:VAL:HG12	3:D:91:GLU:O	2.03	0.58
4:E:82:ALA:O	4:E:85:ALA:HB3	2.04	0.58
5:F:228:TYR:HA	5:F:252:LEU:CD2	2.32	0.58
5:F:421:TYR:O	5:F:423:ARG:N	2.32	0.58
5:F:536:THR:OG1	5:F:537:THR:N	2.34	0.58
1:G:14:VAL:HG22	1:G:15:ASP:N	2.18	0.58
1:G:35:PHE:CZ	1:H:50:SER:HB2	2.39	0.58
1:H:76:GLU:HB3	1:H:80:GLU:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:148:GLN:HG2	2:I:149:LEU:N	2.17	0.58
2:I:367:TYR:HD1	2:I:384:LEU:HD22	1.68	0.58
2:I:385:PHE:CD2	2:I:390:PHE:HE2	2.21	0.58
2:I:59:ILE:HG23	2:I:476:LYS:CE	2.33	0.58
3:J:135:ILE:HG23	3:J:185:ILE:CD1	2.32	0.58
3:J:106:GLU:CD	3:J:241:VAL:HG13	2.23	0.58
3:J:24:LEU:HB2	3:J:232:ASN:OD1	2.03	0.58
3:J:421:VAL:HG23	3:J:422:LEU:N	2.19	0.58
3:J:536:LEU:CD1	3:J:541:LEU:HB2	2.30	0.58
3:J:479:GLU:CG	4:K:20:VAL:HG11	2.31	0.58
1:B:60:GLU:C	1:B:61:ILE:HD13	2.24	0.58
2:C:38:PHE:CE1	2:C:49:LEU:HD23	2.38	0.58
2:C:617:ALA:HA	2:C:636:CYS:SG	2.43	0.58
2:C:756:TYR:CD1	2:C:756:TYR:N	2.56	0.58
2:C:80:PHE:HZ	2:C:1038:GLN:HE22	1.49	0.58
2:C:852:ALA:O	2:C:862:LEU:HD13	2.04	0.58
2:C:848:GLU:CD	2:C:888:THR:HG22	2.24	0.58
3:D:112:ALA:O	3:D:300:GLN:NE2	2.22	0.58
3:D:1179:PRO:HD2	3:D:1184:ASP:CB	2.34	0.58
3:D:449:LEU:HD12	3:D:450:HIS:H	1.68	0.58
3:D:425:ARG:HB2	3:D:466:MET:HG2	1.86	0.58
3:D:537:TYR:C	3:D:539:SER:H	2.05	0.58
5:F:377:LYS:O	5:F:381:GLU:HG3	2.04	0.58
5:F:494:ILE:HG22	5:F:498:LEU:CD2	2.34	0.58
1:G:228:LEU:CD2	1:H:224:LEU:HB3	2.33	0.58
2:I:170:VAL:HG21	2:I:172:TYR:CZ	2.39	0.58
2:I:225:PHE:CD2	2:I:336:LEU:HD22	2.37	0.58
2:I:462:ASN:O	2:I:466:VAL:HG23	2.03	0.58
2:I:5:TYR:HA	2:I:8:LYS:CG	2.34	0.58
2:I:697:LYS:HG2	2:I:698:PRO:N	2.19	0.58
2:I:857:VAL:HG21	2:I:862:LEU:CD2	2.33	0.58
2:I:871:VAL:C	2:I:944:ARG:HH12	2.06	0.58
2:I:951:MET:O	2:I:955:GLN:N	2.22	0.58
3:J:1262:ARG:HG2	3:J:1279:GLN:OE1	2.03	0.58
3:J:891:ASP:OD1	3:J:1284:ARG:HG2	2.03	0.58
5:L:242:HIS:C	5:L:246:GLN:HB2	2.24	0.58
1:A:96:ASP:HA	1:A:148:ARG:HH12	1.68	0.58
1:B:40:GLY:HA3	1:B:185:TYR:CD1	2.38	0.58
2:C:1025:PHE:O	2:C:1028:LYS:N	2.37	0.58
2:C:478:ARG:C	2:C:480:SER:H	2.06	0.58
2:C:522:SER:CA	2:C:525:THR:HG22	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:772:SER:OG	2:C:775:GLU:OE1	2.19	0.58
2:C:4:SER:O	2:C:8:LYS:HB3	2.03	0.58
3:D:44:ILE:HD13	3:D:252:LEU:HD12	1.86	0.58
2:C:1222:GLU:OE2	3:D:537:TYR:OH	2.21	0.58
5:F:598:LEU:HB2	5:F:601:PRO:HG3	1.86	0.58
1:G:207:THR:HG22	1:G:208:ASN:H	1.68	0.58
2:I:817:LEU:HD21	2:I:1080:ASN:ND2	2.18	0.58
2:I:551:HIS:CE1	2:I:553:THR:HG1	2.21	0.58
3:J:1167:LYS:HD3	3:J:1174:ARG:NH1	2.17	0.58
3:J:294:ASN:ND2	3:J:298:MET:SD	2.76	0.58
3:J:574:VAL:O	3:J:577:ALA:HB3	2.04	0.58
3:J:844:THR:CG2	3:J:864:LEU:HD21	2.34	0.58
3:J:903:LEU:HD23	3:J:905:ARG:CG	2.34	0.58
1:A:100:LEU:HB3	1:A:115:ILE:CG2	2.33	0.58
2:C:672:GLU:HG3	2:C:1187:PHE:HD2	1.68	0.58
2:C:269:ILE:HD12	2:C:269:ILE:N	2.18	0.58
2:C:50:GLU:OE1	2:C:54:ARG:NE	2.37	0.58
2:C:572:ILE:O	2:C:573:ASN:HB2	2.02	0.58
2:C:901:LEU:HA	5:F:563:PHE:CD2	2.38	0.58
3:D:537:TYR:CE2	3:D:544:LEU:CD2	2.87	0.58
3:D:625:MET:O	3:D:627:THR:N	2.37	0.58
5:F:513:ASP:HA	5:F:516:ASP:HA	1.86	0.58
1:G:107:ILE:HG13	1:G:136:GLU:HA	1.86	0.58
2:I:1042:LEU:N	2:I:1042:LEU:HD23	2.19	0.58
2:I:1121:ALA:HB2	2:I:1182:ILE:HD11	1.86	0.58
2:I:1284:ALA:CB	3:J:1362:GLY:H	2.17	0.58
2:I:285:ILE:HD12	2:I:286:GLU:N	2.19	0.58
2:I:577:VAL:HG23	2:I:661:VAL:O	2.03	0.58
2:I:810:TYR:HE2	3:J:359:PRO:CD	2.07	0.58
3:J:36:GLY:O	3:J:104:HIS:ND1	2.37	0.58
3:J:490:ILE:O	3:J:499:ILE:HG22	2.03	0.58
3:J:902:ASP:OD1	3:J:903:LEU:N	2.37	0.58
5:L:234:THR:HB	5:L:245:ALA:CB	2.33	0.58
5:L:227:GLN:HG2	5:L:252:LEU:HA	1.84	0.58
5:L:359:LYS:O	5:L:362:ASN:HB3	2.04	0.58
1:A:191:ARG:NH1	1:A:197:ASP:HA	2.19	0.58
1:B:104:LYS:HG2	1:B:110:VAL:CG2	2.33	0.58
1:B:301:THR:HA	1:B:304:LYS:NZ	2.17	0.58
2:C:1068:GLY:CA	2:C:1072:ASN:HD21	2.16	0.58
2:C:432:LEU:O	2:C:432:LEU:HD12	2.04	0.58
2:C:5:TYR:CD1	2:C:8:LYS:HD3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:665:ALA:C	2:C:667:LEU:H	2.06	0.58
3:D:1156:LEU:HA	3:D:1208:ASP:O	2.04	0.58
3:D:245:LEU:HG	3:D:246:PRO:CD	2.29	0.58
3:D:70:CYS:SG	3:D:71:LEU:N	2.77	0.58
3:D:925:GLU:OE2	3:D:926:PRO:HG3	2.04	0.58
1:G:124:VAL:CG1	1:G:210:THR:HG22	2.33	0.58
1:H:69:SER:H	1:H:78:ILE:CD1	2.16	0.58
2:I:222:ASP:HA	2:I:227:LYS:NZ	2.19	0.58
2:I:557:ARG:CZ	2:I:608:ALA:HA	2.34	0.58
2:I:601:ASP:OD1	2:I:601:ASP:N	2.36	0.58
3:J:624:ILE:C	3:J:627:THR:HG22	2.25	0.58
3:J:843:VAL:HA	3:J:862:THR:O	2.04	0.58
3:J:916:GLY:O	3:J:919:ALA:HB3	2.04	0.58
5:L:272:SER:O	5:L:275:VAL:HB	2.04	0.58
5:L:483:LEU:CD2	5:L:487:MET:HG3	2.32	0.58
1:B:179:PRO:HB3	1:B:208:ASN:CG	2.24	0.58
1:B:59:VAL:HG12	1:B:60:GLU:O	2.03	0.58
2:C:1024:GLU:HA	2:C:1027:LYS:CG	2.33	0.58
2:C:1111:GLN:HB2	2:C:1230:MET:CE	2.34	0.58
2:C:161:LYS:O	2:C:163:LYS:N	2.36	0.58
2:C:303:ASP:HB3	2:C:306:THR:HG22	1.85	0.58
2:C:490:GLN:HG3	5:F:472:GLN:CB	2.34	0.58
3:D:384:LYS:NZ	3:D:414:GLU:OE1	2.36	0.58
3:D:427:PRO:O	3:D:429:LEU:HD22	2.03	0.58
3:D:705:THR:OG1	3:D:718:SER:HA	2.03	0.58
3:D:825:VAL:HG22	3:D:833:GLU:N	2.19	0.58
3:D:867:GLN:NE2	3:D:867:GLN:N	2.47	0.58
5:F:274:ARG:HA	5:F:277:MET:HB3	1.85	0.58
1:G:57:THR:HG22	1:G:158:ARG:NH2	2.18	0.58
1:H:112:ALA:HA	1:H:130:ILE:HD12	1.86	0.58
2:I:1223:ARG:HH11	2:I:1223:ARG:HB3	1.65	0.58
2:I:464:PHE:O	2:I:467:GLY:N	2.37	0.58
2:I:4:SER:H	2:I:7:GLU:HB2	1.68	0.58
2:I:571:LEU:O	2:I:572:ILE:HD13	2.04	0.58
2:I:744:GLY:O	2:I:746:ALA:N	2.34	0.58
3:J:1168:GLU:OE2	3:J:1169:THR:OG1	2.21	0.58
3:J:1371:ARG:HH22	3:J:1372:ARG:NH2	1.96	0.58
3:J:29:MET:O	3:J:32:SER:HB2	2.04	0.58
3:J:750:PRO:HA	3:J:777:HIS:NE2	2.19	0.58
3:J:97:VAL:HG11	3:J:101:ARG:NH2	2.18	0.58
5:L:267:ASP:N	5:L:267:ASP:OD1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:413:MET:O	5:L:416:VAL:HG12	2.04	0.58
1:B:178:SER:O	1:B:180:VAL:N	2.37	0.58
2:C:971:LEU:HD22	2:C:1018:TYR:CD1	2.38	0.58
2:C:1078:LYS:HG2	2:C:1079:ILE:H	1.66	0.58
5:F:487:MET:HB3	5:F:489:MET:CG	2.32	0.58
1:G:115:ILE:HG22	1:G:116:THR:H	1.69	0.58
2:I:176:ILE:O	2:I:178:PRO:HD3	2.03	0.58
2:I:517:GLN:O	2:I:517:GLN:HG2	2.04	0.58
2:I:687:ARG:C	2:I:689:ALA:H	2.06	0.58
3:J:220:ARG:O	3:J:223:LEU:HB3	2.04	0.58
3:J:339:ARG:HB3	3:J:340:GLN:HG3	1.86	0.58
5:L:113:ARG:HA	5:L:116:GLU:CD	2.24	0.58
5:L:390:ILE:HG21	5:L:436:ARG:HG3	1.86	0.58
2:C:160:ASP:O	2:C:164:THR:OG1	2.22	0.57
2:C:496:LYS:HE3	2:C:497:PRO:HD3	1.86	0.57
3:D:1318:SER:OG	3:D:1349:GLU:OE1	2.22	0.57
3:D:416:ILE:HG23	3:D:439:PRO:HG2	1.86	0.57
3:D:457:TYR:O	3:D:458:ASN:HB3	2.03	0.57
5:F:394:TYR:N	5:F:394:TYR:CD2	2.70	0.57
2:I:115:LYS:CD	2:I:116:ASP:H	2.16	0.57
2:I:168:GLY:O	2:I:170:VAL:N	2.37	0.57
2:I:216:THR:N	2:I:219:GLN:HB2	2.19	0.57
2:I:469:VAL:HG23	2:I:470:ARG:N	2.19	0.57
2:I:978:VAL:O	2:I:981:ALA:HB3	2.03	0.57
3:J:736:GLN:O	3:J:740:LEU:HD13	2.03	0.57
3:J:759:ILE:HD12	3:J:771:GLN:HB3	1.86	0.57
4:K:60:ASN:OD1	4:K:62:GLN:HB3	2.04	0.57
5:L:419:PHE:O	5:L:420:GLU:HB2	2.03	0.57
1:B:153:VAL:HG13	1:B:157:THR:CG2	2.18	0.57
1:B:307:LEU:HD23	1:B:313:SER:O	2.04	0.57
2:C:979:LEU:CD2	2:C:1000:LEU:HD12	2.34	0.57
2:C:1029:LEU:O	2:C:1031:ALA:N	2.37	0.57
2:C:1336:ASN:OD1	2:C:1337:ILE:N	2.37	0.57
2:C:145:ILE:HG13	2:C:511:LEU:O	2.04	0.57
2:C:407:ARG:O	2:C:407:ARG:HD3	2.03	0.57
3:D:513:MET:CE	3:D:579:LEU:HD22	2.34	0.57
3:D:614:LEU:O	3:D:617:THR:N	2.31	0.57
3:D:81:ARG:O	3:D:83:VAL:N	2.37	0.57
1:G:207:THR:HG22	1:G:208:ASN:OD1	2.04	0.57
1:G:228:LEU:HD11	1:H:221:ALA:CB	2.34	0.57
2:I:164:THR:CG2	2:I:171:LEU:HG	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:173:ASN:HA	2:I:186:PHE:O	2.04	0.57
2:I:62:TYR:CE2	2:I:476:LYS:HB3	2.39	0.57
2:I:538:LEU:HD23	2:I:542:ARG:HH12	1.69	0.57
2:I:593:LYS:O	2:I:600:THR:OG1	2.12	0.57
2:I:899:GLU:O	2:I:902:LEU:N	2.37	0.57
3:J:1319:PHE:CD1	3:J:1319:PHE:C	2.78	0.57
3:J:1327:GLU:O	3:J:1330:ARG:N	2.36	0.57
3:J:316:ILE:HB	3:J:321:LYS:O	2.04	0.57
3:J:426:ALA:CB	3:J:427:PRO:HD3	2.28	0.57
3:J:502:PRO:HB3	3:J:506:VAL:HG21	1.86	0.57
3:J:746:LEU:HG	3:J:758:PRO:HG3	1.85	0.57
3:J:850:LYS:HE2	3:J:855:ASP:CB	2.33	0.57
5:L:404:LEU:HD23	5:L:439:ILE:HD12	1.84	0.57
1:A:201:LEU:HD12	1:A:202:VAL:H	1.68	0.57
2:C:169:LYS:HE2	2:C:190:PRO:O	2.03	0.57
2:C:321:LEU:O	2:C:324:LYS:HB2	2.03	0.57
3:D:1159:ILE:CG2	3:D:1177:ILE:HD12	2.26	0.57
3:D:40:LYS:HB3	3:D:42:GLU:OE1	2.03	0.57
3:D:58:CYS:SG	3:D:60:ARG:N	2.76	0.57
3:D:707:ILE:N	3:D:714:GLU:O	2.32	0.57
3:D:79:LYS:HG3	3:D:80:HIS:N	2.19	0.57
3:D:847:ASP:CA	3:D:860:ARG:H	2.17	0.57
4:E:67:ARG:O	4:E:70:GLN:HB3	2.05	0.57
5:F:246:GLN:O	5:F:249:ILE:HB	2.04	0.57
1:G:12:ARG:N	1:G:30:PRO:HD2	2.13	0.57
1:H:48:LEU:HD11	3:J:538:ARG:HB2	1.86	0.57
2:I:1042:LEU:HD12	2:I:1046:VAL:HG23	1.85	0.57
2:I:823:VAL:HG12	2:I:1079:ILE:HD11	1.85	0.57
2:I:1191:LYS:HD3	2:I:1193:ALA:H	1.69	0.57
1:H:37:HIS:NE2	2:I:1216:ARG:HD2	2.18	0.57
2:I:1242:LYS:O	2:I:1244:HIS:ND1	2.36	0.57
2:I:211:ARG:HD3	2:I:357:ASN:O	2.04	0.57
2:I:86:GLN:HG3	2:I:140:GLY:HA2	1.87	0.57
3:J:327:LEU:O	3:J:330:MET:N	2.26	0.57
3:J:372:MET:O	3:J:376:LEU:N	2.37	0.57
3:J:56:LEU:HD21	3:J:269:TYR:HB3	1.84	0.57
3:J:858:VAL:CG1	3:J:872:LEU:HD11	2.34	0.57
3:J:903:LEU:HB3	3:J:905:ARG:N	2.19	0.57
3:J:807:LEU:HD23	3:J:915:ILE:HG13	1.85	0.57
5:L:461:ASN:O	5:L:465:ARG:N	2.30	0.57
1:B:81:ILE:O	1:B:85:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1269:ARG:CB	3:D:343:LEU:HG	2.34	0.57
2:C:63:SER:C	2:C:65:ASN:N	2.58	0.57
2:C:746:ALA:HB1	2:C:974:ARG:HH21	1.70	0.57
2:C:747:GLY:HA2	2:C:970:GLY:O	2.05	0.57
3:D:1313:SER:OG	3:D:1314:LEU:N	2.37	0.57
3:D:265:LEU:HD13	3:D:327:LEU:HD21	1.86	0.57
3:D:93:THR:HG22	3:D:94:GLN:H	1.69	0.57
5:F:389:SER:OG	5:F:390:ILE:N	2.35	0.57
5:F:511:ILE:HG23	5:F:512:GLY:N	2.19	0.57
1:G:97:GLU:HG3	1:G:145:LYS:HE2	1.87	0.57
2:I:151:ARG:CZ	2:I:445:ILE:HD11	2.34	0.57
2:I:152:SER:OG	2:I:153:PRO:O	2.22	0.57
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.05	0.57
2:I:879:GLY:HA2	2:I:921:PRO:O	2.04	0.57
3:J:1262:ARG:CB	3:J:1262:ARG:CZ	2.83	0.57
3:J:1322:ALA:HA	3:J:1325:PHE:CE2	2.39	0.57
3:J:746:LEU:CG	3:J:758:PRO:HG3	2.34	0.57
4:K:36:ASP:HB2	4:K:37:PRO:HD2	1.85	0.57
2:C:850:ILE:HG13	2:C:1048:LYS:HD3	1.85	0.57
2:C:292:ILE:HG22	2:C:292:ILE:O	2.04	0.57
2:C:367:TYR:CD1	2:C:381:ALA:HA	2.35	0.57
2:C:637:ARG:HA	2:C:642:SER:HA	1.85	0.57
2:C:84:GLU:OE1	2:C:1035:LYS:HD2	2.04	0.57
3:D:1259:GLN:HA	3:D:1259:GLN:NE2	2.19	0.57
3:D:655:SER:HA	3:D:658:GLU:CB	2.35	0.57
3:D:843:VAL:CG1	3:D:897:HIS:O	2.52	0.57
5:F:137:TYR:HD2	5:F:140:ALA:HB2	1.66	0.57
1:G:37:HIS:CD2	1:G:187:VAL:HG21	2.40	0.57
2:I:1046:VAL:C	2:I:1047:LEU:HD23	2.25	0.57
2:I:1128:ILE:HD12	2:I:1176:LEU:CB	2.35	0.57
2:I:130:MET:HA	2:I:136:PHE:CD1	2.40	0.57
3:J:1234:VAL:HG23	3:J:1235:ASN:N	2.19	0.57
3:J:1241:TYR:HD1	3:J:1241:TYR:H	1.53	0.57
3:J:265:LEU:HD21	3:J:330:MET:SD	2.44	0.57
3:J:435:GLN:HB2	3:J:457:TYR:OH	2.04	0.57
3:J:903:LEU:HB3	3:J:905:ARG:H	1.68	0.57
5:L:212:ILE:O	5:L:214:PRO:HD3	2.05	0.57
2:C:1210:ILE:O	2:C:1224:PRO:HA	2.04	0.57
2:C:202:ARG:HH11	2:C:369:MET:HG3	1.69	0.57
2:C:599:VAL:CG2	2:C:629:PHE:HE1	2.18	0.57
3:D:242:LEU:HD23	3:D:243:PRO:CD	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:82:LEU:HD23	1:G:82:LEU:N	2.20	0.57
1:H:44:ARG:O	1:H:48:LEU:HB2	2.04	0.57
2:I:477:GLU:O	2:I:480:SER:HB3	2.04	0.57
2:I:532:ALA:HB1	2:I:538:LEU:CD1	2.35	0.57
2:I:599:VAL:CG2	2:I:629:PHE:HE1	2.17	0.57
2:I:729:ALA:O	2:I:755:LYS:HE2	2.04	0.57
2:I:93:SER:OG	2:I:126:GLU:HB3	2.04	0.57
3:J:309:ASN:H	3:J:326:SER:CB	2.17	0.57
2:I:1281:TYR:HE2	3:J:431:ARG:CB	2.18	0.57
3:J:350:SER:HA	3:J:468:VAL:O	2.04	0.57
3:J:521:LYS:HD2	3:J:541:LEU:O	2.04	0.57
3:J:75:TYR:HD1	3:J:75:TYR:N	2.03	0.57
3:J:866:GLU:OE2	3:J:901:ARG:NH2	2.38	0.57
5:L:119:ILE:O	5:L:122:ARG:N	2.38	0.57
1:A:98:VAL:HG21	1:A:121:VAL:HG21	1.86	0.57
2:C:344:GLY:HA3	2:C:346:TYR:CZ	2.39	0.57
2:C:382:GLU:O	2:C:386:GLU:HG2	2.05	0.57
2:C:501:ALA:O	2:C:504:GLU:HB3	2.03	0.57
2:C:857:VAL:HG21	2:C:862:LEU:HD21	1.87	0.57
3:D:198:CYS:HB3	3:D:202:ARG:CZ	2.34	0.57
3:D:348:ASP:HB3	3:D:349:TYR:CD1	2.39	0.57
3:D:474:LEU:CD1	3:D:477:GLN:HE21	2.18	0.57
2:C:1113:LEU:HG	3:D:641:ILE:HD11	1.86	0.57
3:D:788:LEU:CD1	3:D:791:ALA:HB3	2.35	0.57
3:D:903:LEU:HB2	3:D:905:ARG:HG3	1.87	0.57
5:F:476:ARG:HB3	5:F:477:GLU:HG2	1.85	0.57
1:H:16:ILE:HA	1:H:26:VAL:HG22	1.86	0.57
2:I:1017:GLN:O	2:I:1021:LEU:HG	2.04	0.57
2:I:1191:LYS:CE	2:I:1192:GLU:HB2	2.34	0.57
2:I:397:LEU:HB3	2:I:401:GLY:HA3	1.86	0.57
2:I:452:ARG:NH1	2:I:584:TYR:O	2.38	0.57
2:I:616:ILE:HG22	2:I:617:ALA:O	2.04	0.57
2:I:764:CYS:HB2	2:I:833:ILE:HG13	1.87	0.57
2:I:74:ARG:NH2	2:I:97:ARG:HG3	2.19	0.57
3:J:16:GLU:HA	3:J:16:GLU:OE2	2.05	0.57
3:J:557:LYS:HA	3:J:563:LEU:HA	1.86	0.57
3:J:584:PRO:CD	3:J:587:LEU:HD13	2.35	0.57
5:L:117:ILE:HG13	5:L:421:TYR:HB2	1.86	0.57
5:L:387:VAL:HA	5:L:390:ILE:HD11	1.86	0.57
1:B:289:LEU:CB	1:B:300:LEU:HD21	2.34	0.57
2:C:745:GLU:HB2	2:C:1017:GLN:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:CYS:HB3	2:C:831:ILE:HG22	1.85	0.57
2:C:887:VAL:HB	2:C:913:VAL:HG22	1.86	0.57
2:C:942:ASP:O	2:C:945:ALA:HB3	2.05	0.57
3:D:431:ARG:N	3:D:921:GLN:OE1	2.37	0.57
5:F:286:LEU:HD11	5:F:290:LEU:HD11	1.86	0.57
5:F:324:LYS:HG3	5:F:326:TRP:CZ2	2.40	0.57
1:H:95:LYS:HD3	1:H:120:ASP:HB2	1.87	0.57
2:I:10:ARG:NH2	2:I:790:ASP:OD2	2.38	0.57
2:I:31:GLN:NE2	2:I:145:ILE:O	2.37	0.57
2:I:184:LEU:HD12	2:I:185:ASP:N	2.20	0.57
2:I:237:LEU:CD1	2:I:292:ILE:HD11	2.35	0.57
2:I:564:PRO:O	2:I:569:ILE:HG23	2.05	0.57
2:I:810:TYR:HD1	2:I:1078:LYS:HD2	1.69	0.57
3:J:650:LYS:HE2	3:J:654:ILE:HD11	1.86	0.57
3:J:748:ALA:CB	3:J:754:ILE:HA	2.34	0.57
5:L:433:TRP:NE1	5:L:437:GLN:OE1	2.36	0.57
1:A:60:GLU:CG	1:A:143:ARG:HH21	2.18	0.57
1:A:28:LEU:HD12	1:A:28:LEU:N	2.18	0.57
1:B:76:GLU:CA	1:B:80:GLU:HG2	2.35	0.57
2:C:1107:MET:CE	3:D:736:GLN:HG2	2.34	0.57
2:C:1256:GLN:O	2:C:1301:ARG:NH2	2.38	0.57
2:C:1329:GLU:HA	3:D:245:LEU:CD1	2.35	0.57
2:C:130:MET:HG3	2:C:134:GLY:HA2	1.86	0.57
2:C:310:ILE:HG21	2:C:325:LEU:HB3	1.86	0.57
3:D:1199:PHE:HB2	3:D:1202:GLU:HB2	1.87	0.57
3:D:161:THR:HG22	3:D:164:GLN:CG	2.35	0.57
4:E:59:ILE:HG23	4:E:64:LEU:HD21	1.85	0.57
5:F:240:ARG:HD3	5:F:244:THR:CG2	2.34	0.57
5:F:345:GLN:O	5:F:348:GLU:HB2	2.05	0.57
5:F:367:ILE:N	5:F:367:ILE:HD13	2.18	0.57
1:G:191:ARG:HH12	1:G:198:LEU:H	1.53	0.57
1:G:79:LEU:HD13	1:G:83:LEU:HD13	1.87	0.57
2:I:1143:GLU:OE1	2:I:1147:ARG:NH1	2.38	0.57
2:I:1281:TYR:N	2:I:1281:TYR:HD2	2.03	0.57
2:I:1323:PHE:CD1	2:I:1327:LEU:HD11	2.40	0.57
2:I:517:GLN:HE21	2:I:759:SER:CB	2.18	0.57
2:I:569:ILE:O	2:I:571:LEU:N	2.37	0.57
1:G:73:GLY:HA2	2:I:726:TYR:OH	2.04	0.57
2:I:1282:GLY:O	3:J:1360:GLY:HA3	2.05	0.57
3:J:210:SER:O	3:J:214:ARG:HG2	2.05	0.57
3:J:491:LEU:HD22	3:J:497:GLU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:572:THR:HG21	3:J:589:TYR:OH	2.04	0.57
3:J:608:CYS:HG	3:J:620:PHE:HD2	1.51	0.57
3:J:866:GLU:OE1	3:J:866:GLU:N	2.35	0.57
1:A:227:GLN:HG2	1:B:35:PHE:HD2	1.68	0.57
1:B:104:LYS:CG	1:B:110:VAL:HG22	2.34	0.57
1:B:301:THR:OG1	1:B:304:LYS:NZ	2.37	0.57
1:B:69:SER:H	1:B:78:ILE:CD1	2.15	0.57
2:C:1108:ASN:O	2:C:1110:GLY:N	2.38	0.57
2:C:1138:VAL:HG11	2:C:1165:SER:O	2.05	0.57
2:C:201:ARG:HB3	2:C:369:MET:CE	2.35	0.57
3:D:357:VAL:CG2	3:D:461:PHE:CE1	2.78	0.57
3:D:591:ILE:CG2	3:D:592:VAL:HG13	2.31	0.57
5:F:343:LYS:O	5:F:347:ILE:HG13	2.05	0.57
5:F:485:GLU:C	5:F:487:MET:H	2.07	0.57
2:I:1043:ALA:O	2:I:1046:VAL:HG13	2.03	0.57
2:I:1069:ARG:NH2	2:I:1231:TYR:HB3	2.19	0.57
2:I:1285:TYR:HD1	3:J:1361:THR:HG21	1.70	0.57
2:I:390:PHE:CA	2:I:419:ILE:HG21	2.33	0.57
2:I:528:ARG:HD3	2:I:663:VAL:HG21	1.85	0.57
2:I:563:THR:HG21	2:I:569:ILE:HG22	1.86	0.57
2:I:748:ILE:N	2:I:748:ILE:HD13	2.20	0.57
3:J:1159:ILE:HD12	3:J:1160:SER:H	1.70	0.57
3:J:205:LEU:C	3:J:205:LEU:HD13	2.24	0.57
3:J:114:ILE:HB	3:J:304:ASP:OD1	2.05	0.57
3:J:500:ILE:HG22	3:J:500:ILE:O	2.05	0.57
3:J:555:TYR:CE1	3:J:565:ALA:HB2	2.40	0.57
2:I:1223:ARG:HB2	3:J:636:GLY:O	2.05	0.57
5:L:120:ALA:CB	5:L:421:TYR:HB3	2.35	0.57
1:A:56:VAL:CG2	1:A:173:VAL:HG21	2.35	0.56
1:B:256:PRO:O	1:B:258:ASP:N	2.37	0.56
1:B:269:CYS:O	1:B:272:ALA:HB3	2.05	0.56
1:B:278:ILE:C	1:B:280:ASP:H	2.07	0.56
1:B:295:LEU:HD21	1:B:300:LEU:HD23	1.87	0.56
2:C:1305:TYR:OH	5:F:532:LEU:HG	2.05	0.56
2:C:524:ILE:CD1	2:C:712:SER:CB	2.82	0.56
3:D:1259:GLN:HE21	3:D:1262:ARG:NH1	2.03	0.56
3:D:298:MET:O	3:D:301:GLU:HB3	2.04	0.56
3:D:606:ASN:OD1	3:D:610:ARG:NE	2.38	0.56
5:F:141:ILE:O	5:F:144:LEU:HB3	2.05	0.56
2:I:672:GLU:HG2	2:I:1187:PHE:HD2	1.70	0.56
3:J:1321:SER:O	3:J:1324:SER:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:576:ARG:HB3	3:J:592:VAL:O	2.05	0.56
5:L:446:GLN:HG3	5:L:446:GLN:O	2.05	0.56
5:L:476:ARG:C	5:L:477:GLU:HG2	2.25	0.56
5:L:479:THR:O	5:L:482:GLU:N	2.38	0.56
1:A:18:GLN:HG3	1:A:24:ALA:HB2	1.86	0.56
1:A:12:ARG:H	1:A:30:PRO:HD2	1.68	0.56
1:A:54:CYS:HB3	1:A:148:ARG:CA	2.26	0.56
2:C:1128:ILE:HD13	2:C:1145:ILE:HD11	1.86	0.56
2:C:689:ALA:HB2	2:C:1233:LEU:HD23	1.85	0.56
2:C:463:GLN:HE22	2:C:501:ALA:HB1	1.70	0.56
2:C:490:GLN:HG3	5:F:472:GLN:HB3	1.88	0.56
3:D:317:THR:HG23	3:D:318:GLY:O	2.05	0.56
3:D:396:ALA:HB2	5:F:606:VAL:CG1	2.34	0.56
3:D:415:VAL:CG2	3:D:416:ILE:HD13	2.35	0.56
3:D:532:GLU:HG3	3:D:532:GLU:O	2.05	0.56
5:F:374:ARG:HH11	5:F:374:ARG:HG3	1.70	0.56
1:H:196:THR:HG22	1:H:197:ASP:N	2.21	0.56
1:H:124:VAL:HG21	1:H:209:GLY:C	2.26	0.56
1:H:225:ALA:O	1:H:228:LEU:HB2	2.05	0.56
2:I:489:PRO:O	2:I:490:GLN:HB2	2.05	0.56
2:I:53:PHE:CE2	2:I:73:TYR:HB3	2.37	0.56
2:I:57:PHE:HD1	2:I:70:TYR:N	2.02	0.56
3:J:153:ASN:H	3:J:154:LEU:HD12	1.69	0.56
3:J:211:GLU:OE2	3:J:214:ARG:NH1	2.38	0.56
3:J:770:LEU:N	3:J:770:LEU:HD13	2.20	0.56
3:J:74:LYS:HD2	3:J:87:LYS:HZ2	1.68	0.56
5:L:511:ILE:HG23	5:L:512:GLY:N	2.20	0.56
1:A:194:GLN:O	1:A:195:ARG:HB2	2.04	0.56
1:B:53:GLY:HA3	1:B:179:PRO:HD3	1.85	0.56
2:C:268:ARG:NH2	2:C:270:THR:HG21	2.20	0.56
2:C:300:ASP:OD1	2:C:313:ALA:N	2.38	0.56
2:C:215:TYR:CE2	2:C:422:LYS:HD2	2.38	0.56
3:D:1142:ALA:O	3:D:1146:GLU:HB2	2.05	0.56
3:D:199:GLU:O	3:D:203:GLU:HG3	2.05	0.56
3:D:41:PRO:HA	3:D:56:LEU:HD11	1.85	0.56
3:D:612:LEU:N	3:D:612:LEU:HD12	2.20	0.56
3:D:620:PHE:O	3:D:624:ILE:N	2.36	0.56
3:D:672:LEU:H	3:D:672:LEU:HD12	1.69	0.56
3:D:810:THR:OG1	3:D:811:GLU:N	2.38	0.56
5:F:562:ARG:O	5:F:563:PHE:HD1	1.88	0.56
2:I:698:PRO:HG3	2:I:1231:TYR:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:76:GLY:CA	2:I:95:PRO:HD2	2.34	0.56
3:J:101:ARG:HG2	3:J:101:ARG:HH11	1.70	0.56
3:J:1252:HIS:O	3:J:1255:VAL:CG1	2.53	0.56
3:J:34:SER:OG	3:J:36:GLY:O	2.22	0.56
3:J:485:MET:HG3	3:J:486:SER:N	2.20	0.56
5:L:274:ARG:HG2	5:L:365:MET:HE3	1.88	0.56
5:L:297:MET:HG3	5:L:326:TRP:CE3	2.39	0.56
1:A:102:LEU:HD22	1:A:103:ASN:N	2.20	0.56
1:B:264:VAL:O	1:B:267:ALA:HB3	2.06	0.56
1:B:79:LEU:H	1:B:79:LEU:HD23	1.70	0.56
2:C:698:PRO:HB3	2:C:1231:TYR:CZ	2.41	0.56
2:C:1334:GLY:O	3:D:25:ALA:HB2	2.05	0.56
2:C:245:ARG:HG2	2:C:337:PHE:CE2	2.40	0.56
2:C:39:ILE:HD11	2:C:75:LEU:HG	1.86	0.56
2:C:818:VAL:HG22	2:C:1096:ILE:HG12	1.86	0.56
2:C:998:LEU:HD12	2:C:998:LEU:H	1.70	0.56
3:D:316:ILE:O	3:D:324:LEU:HD11	2.05	0.56
3:D:344:GLY:O	3:D:345:LYS:O	2.23	0.56
3:D:750:PRO:O	3:D:752:GLY:N	2.38	0.56
3:D:754:ILE:HG13	3:D:755:ILE:N	2.20	0.56
5:F:107:THR:O	5:F:107:THR:OG1	2.18	0.56
3:D:291:ILE:HG23	5:F:406:GLN:OE1	2.06	0.56
1:G:11:PRO:HD3	1:H:227:GLN:OE1	2.04	0.56
1:H:85:LEU:C	1:H:87:GLY:N	2.57	0.56
1:H:86:LYS:NZ	1:H:174:ASP:OD2	2.37	0.56
2:I:1334:GLY:O	3:J:25:ALA:HB3	2.05	0.56
2:I:510:GLN:NE2	2:I:534:GLY:HA2	2.20	0.56
3:J:1241:TYR:O	3:J:1244:GLN:N	2.36	0.56
3:J:663:GLU:O	3:J:667:GLN:HG3	2.05	0.56
3:J:750:PRO:O	3:J:752:GLY:N	2.39	0.56
5:L:497:VAL:HG12	5:L:498:LEU:HD22	1.87	0.56
1:A:217:ILE:O	1:A:220:ALA:HB3	2.05	0.56
1:B:196:THR:HG22	1:B:197:ASP:CB	2.35	0.56
1:B:224:LEU:C	1:B:224:LEU:HD12	2.26	0.56
3:D:1358:PRO:HB3	3:D:1366:HIS:ND1	2.21	0.56
3:D:674:THR:HG23	3:D:677:GLU:OE1	2.06	0.56
3:D:748:ALA:CA	3:D:754:ILE:HA	2.34	0.56
5:F:121:LYS:HE2	5:F:421:TYR:CE1	2.40	0.56
5:F:439:ILE:O	5:F:443:ILE:HG13	2.05	0.56
5:F:497:VAL:HG12	5:F:498:LEU:N	2.21	0.56
2:I:1305:TYR:CE2	5:L:532:LEU:HA	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:369:MET:O	2:I:372:PRO:HD3	2.05	0.56
2:I:521:LEU:O	2:I:524:ILE:HG22	2.04	0.56
2:I:82:VAL:HG22	2:I:92:TYR:CE1	2.39	0.56
3:J:1209:VAL:C	3:J:1210:ILE:HD13	2.26	0.56
3:J:1332:LEU:H	3:J:1332:LEU:HD22	1.68	0.56
3:J:1332:LEU:H	3:J:1332:LEU:CD2	2.19	0.56
3:J:302:ALA:O	3:J:305:ALA:HB3	2.06	0.56
3:J:322:ARG:CG	3:J:323:PRO:HD2	2.35	0.56
3:J:611:ILE:CG2	3:J:612:LEU:HD12	2.34	0.56
3:J:709:ARG:HD2	3:J:710:ASP:H	1.69	0.56
3:J:781:LYS:HG2	3:J:785:ASP:OD2	2.06	0.56
3:J:865:HIS:HE1	3:J:867:GLN:HB2	1.67	0.56
4:K:71:GLU:O	4:K:75:GLN:HG3	2.05	0.56
5:L:251:LYS:O	5:L:254:GLU:HB2	2.06	0.56
5:L:355:ILE:HA	5:L:358:VAL:CG2	2.35	0.56
5:L:461:ASN:HA	5:L:464:ASN:HB2	1.86	0.56
1:A:117:HIS:CE1	1:A:119:GLY:HA2	2.40	0.56
1:A:27:THR:HG22	1:A:200:LYS:HG3	1.87	0.56
1:B:256:PRO:HA	1:B:277:TYR:HA	1.87	0.56
2:C:1082:ILE:HD12	2:C:1082:ILE:H	1.69	0.56
2:C:1142:ARG:NH2	2:C:1165:SER:CB	2.66	0.56
2:C:624:ASP:OD1	2:C:625:GLU:N	2.25	0.56
2:C:670:PHE:CD2	2:C:1113:LEU:CB	2.87	0.56
5:F:495:ARG:CA	5:F:498:LEU:HD23	2.24	0.56
1:G:124:VAL:HG21	1:G:210:THR:N	2.20	0.56
2:I:1272:GLU:CB	3:J:342:LEU:HG	2.35	0.56
2:I:685:MET:O	2:I:1235:LEU:HD11	2.05	0.56
2:I:669:PRO:CA	2:I:702:THR:HG22	2.36	0.56
3:J:267:ASP:HA	3:J:270:ARG:HH21	1.69	0.56
3:J:37:GLU:O	3:J:39:LYS:HG3	2.06	0.56
3:J:580:TRP:CA	3:J:583:VAL:HG23	2.34	0.56
1:A:71:LYS:HB3	1:A:74:VAL:HG13	1.85	0.56
1:B:151:GLY:H	1:B:177:TYR:CB	2.19	0.56
2:C:1079:ILE:HG23	2:C:1079:ILE:O	2.06	0.56
2:C:263:VAL:HG13	2:C:267:ARG:HB3	1.86	0.56
2:C:312:ALA:HB3	2:C:315:MET:HE3	1.86	0.56
2:C:551:HIS:O	2:C:554:HIS:N	2.33	0.56
2:C:617:ALA:HB3	2:C:653:MET:HG3	1.88	0.56
2:C:893:THR:O	2:C:894:GLN:HB3	2.06	0.56
3:D:1156:LEU:HG	3:D:1224:ARG:HH21	1.71	0.56
3:D:233:LYS:HB3	3:D:235:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:55:GLY:O	3:D:57:PHE:N	2.38	0.56
3:D:872:LEU:HD22	3:D:877:VAL:CG2	2.36	0.56
2:I:1142:ARG:HH11	2:I:1169:VAL:HG21	1.70	0.56
2:I:13:LYS:N	2:I:1181:PRO:O	2.30	0.56
2:I:664:GLY:O	2:I:667:LEU:HB2	2.05	0.56
2:I:737:ASN:HB3	2:I:739:ASP:OD1	2.06	0.56
3:J:1256:ILE:O	3:J:1259:GLN:HB2	2.05	0.56
3:J:368:LEU:HD23	3:J:369:PRO:N	2.20	0.56
4:K:29:GLN:O	4:K:35:LYS:N	2.38	0.56
5:L:102:MET:O	5:L:105:MET:N	2.39	0.56
5:L:106:GLY:O	5:L:108:VAL:N	2.39	0.56
3:J:52:GLU:HG2	5:L:451:ARG:HH11	1.67	0.56
1:B:183:ILE:HG22	1:B:205:MET:CG	2.16	0.56
2:C:1160:ASP:HB2	2:C:1162:SER:H	1.70	0.56
2:C:1340:GLU:HG3	3:D:21:LYS:HB2	1.88	0.56
2:C:28:LEU:HD21	2:C:527:LYS:HD2	1.87	0.56
2:C:685:MET:HE1	2:C:1071:GLY:HA2	1.85	0.56
2:C:758:ARG:HA	2:C:833:ILE:HG21	1.88	0.56
2:C:929:ILE:O	2:C:930:ASP:HB2	2.05	0.56
2:C:1328:LYS:HE2	3:D:102:MET:CG	2.35	0.56
3:D:517:CYS:H	3:D:545:HIS:HB2	1.70	0.56
3:D:704:GLU:O	3:D:706:VAL:N	2.38	0.56
5:F:525:ASP:OD2	5:F:528:LEU:HG	2.06	0.56
1:G:45:ARG:O	1:G:45:ARG:HD3	2.04	0.56
1:G:79:LEU:O	1:G:79:LEU:HD13	2.05	0.56
1:H:74:VAL:HG11	1:H:81:ILE:HD11	1.88	0.56
2:I:1143:GLU:OE1	2:I:1147:ARG:HD3	2.05	0.56
2:I:1296:ASP:OD2	2:I:1321:GLU:N	2.39	0.56
2:I:148:GLN:OE1	2:I:454:ARG:NH1	2.39	0.56
3:J:1348:LYS:O	3:J:1352:ILE:HD13	2.06	0.56
3:J:138:VAL:HG11	3:J:145:VAL:HG11	1.88	0.56
3:J:135:ILE:HG23	3:J:185:ILE:HD12	1.88	0.56
3:J:44:ILE:CD1	3:J:260:PHE:CE2	2.88	0.56
3:J:544:LEU:O	3:J:575:GLY:N	2.38	0.56
3:J:670:SER:HB2	3:J:672:LEU:HD13	1.86	0.56
3:J:44:ILE:HG13	5:L:450:ILE:HG22	1.87	0.56
1:A:190:ALA:O	1:A:191:ARG:NH1	2.39	0.56
2:C:30:ILE:N	2:C:30:ILE:HD12	2.19	0.56
2:C:179:TYR:OH	2:C:458:GLU:OE2	2.19	0.56
2:C:660:VAL:HG22	2:C:661:VAL:CG1	2.36	0.56
1:A:134:THR:HG23	2:C:726:TYR:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:CYS:HB2	2:C:918:LEU:HB3	1.87	0.56
3:D:627:THR:HG23	3:D:628:GLY:H	1.71	0.56
3:D:849:LEU:HD22	3:D:849:LEU:N	2.15	0.56
5:F:117:ILE:HG23	5:F:421:TYR:CD1	2.41	0.56
5:F:347:ILE:HG22	5:F:351:THR:HG23	1.88	0.56
2:I:1131:MET:HE2	2:I:1141:LEU:CD1	2.19	0.56
2:I:538:LEU:HD23	2:I:542:ARG:NH1	2.21	0.56
2:I:70:TYR:CZ	2:I:72:SER:HA	2.41	0.56
2:I:710:VAL:HA	2:I:715:THR:CG2	2.35	0.56
2:I:878:THR:OG1	2:I:879:GLY:N	2.34	0.56
2:I:897:PRO:HB3	5:L:565:ILE:HB	1.87	0.56
3:J:368:LEU:HD23	3:J:369:PRO:O	2.06	0.56
3:J:517:CYS:N	3:J:545:HIS:HB2	2.15	0.56
5:L:462:LYS:O	5:L:466:ILE:N	2.22	0.56
2:C:1164:PHE:HB2	2:C:1168:GLU:OE1	2.06	0.56
2:C:242:VAL:HG23	2:C:245:ARG:HD2	1.87	0.56
2:C:285:ILE:HD12	2:C:286:GLU:O	2.06	0.56
2:C:617:ALA:HB3	2:C:653:MET:CG	2.36	0.56
3:D:34:SER:OG	3:D:103:GLY:HA2	2.06	0.56
3:D:1279:GLN:HB3	3:D:1281:GLU:OE2	2.06	0.56
3:D:325:LYS:HE3	3:D:330:MET:HG2	1.88	0.56
3:D:797:THR:O	3:D:800:LEU:N	2.39	0.56
5:F:268:TYR:O	5:F:271:ASN:HB3	2.06	0.56
2:I:1127:LYS:HE3	2:I:1201:LEU:O	2.06	0.56
2:I:213:LEU:N	2:I:213:LEU:HD23	2.20	0.56
2:I:211:ARG:HH22	2:I:351:LEU:HD21	1.71	0.56
3:J:1199:PHE:HB2	3:J:1202:GLU:CB	2.35	0.56
3:J:734:ALA:HA	3:J:737:ILE:HG12	1.88	0.56
3:J:905:ARG:NH1	4:K:16:ARG:HB2	2.21	0.56
5:L:596:ARG:HA	5:L:596:ARG:HE	1.69	0.56
1:B:286:GLU:OE2	1:B:304:LYS:HD3	2.06	0.56
2:C:1191:LYS:NZ	2:C:1193:ALA:H	2.04	0.56
2:C:637:ARG:HA	2:C:641:GLU:O	2.05	0.56
2:C:720:ARG:NH2	2:C:742:TYR:H	2.04	0.56
3:D:1155:ILE:C	3:D:1156:LEU:HD13	2.26	0.56
3:D:116:PHE:CD1	3:D:1333:THR:HG22	2.41	0.56
3:D:279:LEU:HD12	3:D:295:GLU:CB	2.35	0.56
3:D:495:ASN:O	3:D:495:ASN:ND2	2.39	0.56
3:D:515:ARG:C	3:D:545:HIS:HB3	2.26	0.56
3:D:707:ILE:HD12	3:D:714:GLU:O	2.05	0.56
2:C:680:LEU:HD13	3:D:783:LEU:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:386:LEU:O	5:F:389:SER:OG	2.16	0.56
5:F:484:ALA:HB1	5:F:490:PRO:O	2.06	0.56
1:G:191:ARG:NH1	1:G:198:LEU:H	2.04	0.56
1:G:27:THR:C	1:G:28:LEU:HD12	2.26	0.56
1:G:88:LEU:HD11	1:G:125:LYS:HG3	1.88	0.56
2:I:1182:ILE:HG22	2:I:1183:ALA:N	2.19	0.56
2:I:1259:LEU:HD12	3:J:346:ARG:NH1	2.21	0.56
2:I:12:ARG:HG3	2:I:1181:PRO:CB	2.36	0.56
2:I:231:GLU:OE2	2:I:233:ARG:HD2	2.06	0.56
2:I:810:TYR:CE2	3:J:359:PRO:CD	2.78	0.56
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.33	0.56
3:J:1292:LEU:N	3:J:1292:LEU:HD12	2.21	0.56
3:J:56:LEU:H	3:J:56:LEU:HD12	1.70	0.56
3:J:641:ILE:HA	3:J:644:MET:CE	2.36	0.56
3:J:848:VAL:HB	3:J:857:LEU:HD12	1.88	0.56
1:B:206:GLU:OE1	3:D:531:LYS:NZ	2.24	0.55
1:B:81:ILE:O	1:B:83:LEU:N	2.39	0.55
2:C:817:LEU:HD21	2:C:1085:MET:HE1	1.87	0.55
2:C:1164:PHE:C	2:C:1166:ASP:H	2.08	0.55
2:C:42:ASP:OD1	2:C:44:GLU:HG2	2.06	0.55
2:C:582:ASN:HB3	2:C:586:PHE:H	1.71	0.55
2:C:886:LYS:H	2:C:917:SER:HB3	1.71	0.55
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.88	0.55
3:D:1356:LEU:O	3:D:1366:HIS:HE1	1.89	0.55
3:D:827:GLU:O	3:D:829:GLY:N	2.39	0.55
3:D:847:ASP:OD2	3:D:860:ARG:HG2	2.06	0.55
4:E:48:VAL:O	4:E:51:LEU:HB2	2.05	0.55
5:F:275:VAL:O	5:F:278:ASP:HB2	2.05	0.55
1:G:71:LYS:HB3	1:G:74:VAL:HG13	1.88	0.55
1:H:74:VAL:HG22	1:H:132:HIS:O	2.06	0.55
2:I:385:PHE:HE2	2:I:390:PHE:CE2	2.24	0.55
2:I:593:LYS:HE3	2:I:595:THR:CG2	2.36	0.55
3:J:1155:ILE:O	3:J:1156:LEU:HD13	2.06	0.55
3:J:1257:VAL:HA	3:J:1260:MET:HG3	1.88	0.55
3:J:181:GLY:O	3:J:183:GLU:HG3	2.06	0.55
3:J:295:GLU:O	3:J:298:MET:N	2.39	0.55
3:J:351:GLY:O	3:J:352:ARG:HB3	2.06	0.55
3:J:608:CYS:SG	3:J:620:PHE:HD2	2.29	0.55
3:J:793:SER:O	3:J:797:THR:N	2.37	0.55
3:J:888:CYS:SG	3:J:890:THR:N	2.75	0.55
5:L:595:LEU:O	5:L:598:LEU:HD23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:PRO:HA	1:B:132:HIS:HA	1.87	0.55
1:B:289:LEU:HA	1:B:295:LEU:HD13	1.88	0.55
2:C:870:ILE:HD11	2:C:1050:VAL:HG11	1.88	0.55
2:C:1155:VAL:HG12	2:C:1156:ARG:N	2.19	0.55
2:C:316:GLU:H	2:C:316:GLU:CD	2.10	0.55
2:C:337:PHE:C	2:C:337:PHE:HD1	2.10	0.55
2:C:558:VAL:CG1	2:C:559:CYS:N	2.68	0.55
2:C:841:ARG:HG3	2:C:841:ARG:HH11	1.70	0.55
2:C:1281:TYR:CD2	3:D:431:ARG:HB2	2.40	0.55
3:D:615:LYS:HE2	3:D:616:PRO:CD	2.32	0.55
3:D:795:TYR:HE2	3:D:799:ARG:CD	2.20	0.55
5:F:573:LEU:N	5:F:573:LEU:CD1	2.70	0.55
5:F:96:ASP:OD1	5:F:98:VAL:HG13	2.05	0.55
1:H:13:LEU:HA	1:H:28:LEU:HD12	1.89	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD13	1.86	0.55
2:I:1327:LEU:HD12	2:I:1327:LEU:H	1.72	0.55
2:I:159:SER:HA	2:I:172:TYR:HD1	1.70	0.55
2:I:277:LEU:HA	2:I:280:ASP:HB2	1.87	0.55
2:I:34:SER:O	2:I:457:GLY:HA3	2.07	0.55
2:I:564:PRO:HD3	2:I:572:ILE:HB	1.88	0.55
2:I:802:VAL:HG23	2:I:1098:LEU:HD13	1.87	0.55
3:J:1313:SER:OG	3:J:1314:LEU:N	2.39	0.55
3:J:272:VAL:HG22	3:J:302:ALA:HB1	1.86	0.55
3:J:352:ARG:HB3	3:J:467:ALA:HA	1.89	0.55
2:I:1075:VAL:N	3:J:461:PHE:O	2.32	0.55
3:J:743:MET:HB2	3:J:760:THR:HA	1.88	0.55
3:J:839:VAL:HG13	3:J:882:VAL:HG21	1.89	0.55
4:K:53:GLU:HB3	4:K:59:ILE:CG1	2.30	0.55
1:A:9:LEU:HB2	1:A:32:GLU:CG	2.36	0.55
1:B:54:CYS:SG	1:B:92:VAL:HG23	2.47	0.55
1:B:89:ALA:O	1:B:123:ILE:HD12	2.06	0.55
2:C:1253:LEU:HD13	3:D:253:VAL:CG1	2.36	0.55
2:C:189:ASP:HB3	2:C:195:PHE:CE2	2.41	0.55
3:D:516:ASP:CA	3:D:545:HIS:HB2	2.36	0.55
5:F:574:GLU:OE1	5:F:584:ARG:NH1	2.39	0.55
1:H:9:LEU:HB3	1:H:32:GLU:CG	2.36	0.55
2:I:243:PRO:O	2:I:246:LEU:HD12	2.07	0.55
2:I:413:GLU:OE2	2:I:413:GLU:HA	2.06	0.55
2:I:617:ALA:HB3	2:I:653:MET:CA	2.36	0.55
2:I:903:ARG:O	2:I:907:GLY:N	2.33	0.55
2:I:993:PRO:O	2:I:996:ARG:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1225:GLY:O	3:J:1228:ALA:HB3	2.06	0.55
3:J:193:ASP:CG	3:J:196:GLN:HG2	2.26	0.55
2:I:1281:TYR:HD1	3:J:484:MET:HG2	1.70	0.55
3:J:45:ASN:HB3	3:J:50:LYS:H	1.71	0.55
3:J:518:VAL:HG23	3:J:547:ARG:NH2	2.21	0.55
3:J:803:VAL:HG21	3:J:1312:ALA:HB3	1.87	0.55
5:L:536:THR:O	5:L:539:SER:HB3	2.06	0.55
2:C:253:PHE:CD1	2:C:255:ILE:HG12	2.41	0.55
2:C:176:ILE:HD11	2:C:428:VAL:HG21	1.89	0.55
2:C:522:SER:HA	2:C:525:THR:CG2	2.35	0.55
3:D:450:HIS:HE1	3:D:452:LEU:CD1	2.19	0.55
3:D:506:VAL:HG13	3:D:507:VAL:H	1.72	0.55
3:D:701:LEU:CD1	3:D:723:TYR:HB2	2.37	0.55
2:C:1313:HIS:N	4:E:31:GLN:OE1	2.32	0.55
5:F:419:PHE:CZ	5:F:427:PHE:HD1	2.23	0.55
5:F:575:GLU:HA	5:F:578:LYS:HG3	1.88	0.55
2:I:811:ASN:ND2	2:I:1097:VAL:O	2.39	0.55
2:I:1214:ASP:OD1	2:I:1216:ARG:N	2.28	0.55
2:I:1064:ASP:OD1	2:I:1239:VAL:HG12	2.07	0.55
2:I:145:ILE:O	2:I:145:ILE:HG22	2.06	0.55
2:I:484:LEU:O	2:I:486:THR:N	2.35	0.55
3:J:1358:PRO:HB3	3:J:1366:HIS:CG	2.38	0.55
3:J:279:LEU:HB2	3:J:295:GLU:HG2	1.87	0.55
3:J:295:GLU:O	3:J:298:MET:HB2	2.05	0.55
3:J:37:GLU:HA	3:J:104:HIS:O	2.07	0.55
3:J:357:VAL:HG22	3:J:461:PHE:CD1	2.41	0.55
3:J:513:MET:O	3:J:515:ARG:N	2.36	0.55
3:J:52:GLU:CG	5:L:451:ARG:HH11	2.19	0.55
3:J:720:ASN:O	3:J:724:MET:HG3	2.07	0.55
3:J:74:LYS:HD2	3:J:87:LYS:HZ3	1.71	0.55
3:J:823:THR:C	3:J:835:LEU:HD13	2.27	0.55
3:J:863:LEU:HD11	3:J:901:ARG:HB3	1.89	0.55
4:K:15:ASN:C	4:K:17:PHE:H	2.10	0.55
1:A:135:ASP:O	1:A:138:ALA:N	2.36	0.55
1:B:45:ARG:HB3	1:B:45:ARG:HH11	1.72	0.55
1:B:37:HIS:CD2	2:C:1216:ARG:HD2	2.41	0.55
2:C:1220:GLN:HG2	2:C:1221:PHE:N	2.21	0.55
2:C:337:PHE:CD1	2:C:337:PHE:C	2.78	0.55
2:C:354:ASP:OD2	2:C:356:THR:OG1	2.20	0.55
3:D:382:TYR:CE1	3:D:398:LYS:HA	2.42	0.55
3:D:511:TYR:OH	3:D:515:ARG:NH1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:679:TYR:O	3:D:683:ILE:HG22	2.06	0.55
3:D:751:ASP:HB2	3:D:753:SER:H	1.70	0.55
5:F:274:ARG:O	5:F:277:MET:HB3	2.07	0.55
1:G:219:ARG:HA	1:G:222:THR:HB	1.89	0.55
2:I:1272:GLU:HB2	3:J:342:LEU:HG	1.88	0.55
2:I:62:TYR:C	2:I:64:GLY:N	2.60	0.55
2:I:692:THR:OG1	2:I:798:GLN:NE2	2.36	0.55
2:I:888:THR:O	2:I:913:VAL:HG23	2.06	0.55
3:J:1233:ILE:HG21	3:J:1257:VAL:HG22	1.88	0.55
3:J:132:LEU:HD13	3:J:132:LEU:C	2.25	0.55
3:J:394:ILE:HA	3:J:397:ALA:CB	2.32	0.55
5:L:333:VAL:HG22	5:L:336:GLU:HB2	1.87	0.55
1:A:166:ARG:HD2	1:A:167:PRO:CA	2.36	0.55
1:B:47:LEU:O	1:B:180:VAL:HG21	2.06	0.55
2:C:1160:ASP:HB2	2:C:1162:SER:N	2.21	0.55
2:C:1212:LEU:HD22	2:C:1225:VAL:CG2	2.37	0.55
2:C:1305:TYR:CE2	5:F:532:LEU:N	2.74	0.55
2:C:315:MET:HG2	2:C:316:GLU:OE2	2.06	0.55
2:C:406:ASN:ND2	2:C:413:GLU:HB2	2.22	0.55
2:C:119:GLU:CG	2:C:488:MET:HB3	2.29	0.55
2:C:569:ILE:HG22	2:C:570:GLY:N	2.21	0.55
2:C:12:ARG:NE	2:C:793:GLU:OE1	2.38	0.55
2:C:971:LEU:CD2	2:C:1018:TYR:HD1	2.20	0.55
3:D:108:ALA:HB3	3:D:279:LEU:HD22	1.86	0.55
3:D:1176:VAL:HA	3:D:1186:TYR:O	2.06	0.55
3:D:190:LYS:HA	3:D:235:GLU:CG	2.34	0.55
3:D:537:TYR:CE2	3:D:544:LEU:HD21	2.41	0.55
5:F:316:PHE:O	5:F:320:ILE:HG13	2.07	0.55
5:F:572:THR:CG2	5:F:575:GLU:CB	2.80	0.55
1:H:101:THR:HG23	1:H:116:THR:HB	1.88	0.55
2:I:1144:PHE:O	2:I:1147:ARG:N	2.39	0.55
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.06	0.55
2:I:880:GLY:N	2:I:920:VAL:O	2.38	0.55
3:J:1270:GLY:HA3	3:J:1298:VAL:HG22	1.89	0.55
3:J:339:ARG:CD	3:J:340:GLN:HG3	2.37	0.55
5:L:277:MET:SD	5:L:362:ASN:ND2	2.80	0.55
3:J:274:ASN:OD1	5:L:446:GLN:NE2	2.39	0.55
5:L:519:LEU:C	5:L:519:LEU:HD13	2.26	0.55
1:A:11:PRO:HA	1:A:30:PRO:HG2	1.88	0.55
1:B:258:ASP:O	1:B:261:GLU:HG3	2.06	0.55
1:B:29:GLU:HB3	1:B:200:LYS:CB	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ASP:HB3	2:C:306:THR:HG23	1.84	0.55
2:C:53:PHE:HE2	2:C:73:TYR:HB3	1.72	0.55
2:C:606:LEU:HD23	2:C:611:GLU:HA	1.88	0.55
2:C:555:TYR:CE1	2:C:637:ARG:CZ	2.90	0.55
2:C:848:GLU:OE1	2:C:886:LYS:NZ	2.35	0.55
3:D:1280:VAL:HG21	3:D:1304:ARG:HH21	1.71	0.55
2:C:1284:ALA:HB3	3:D:1361:THR:HB	1.86	0.55
1:B:196:THR:OG1	3:D:443:GLU:HG3	2.06	0.55
3:D:510:LEU:HD13	3:D:628:GLY:HA2	1.89	0.55
3:D:646:ILE:HG23	3:D:741:ALA:O	2.06	0.55
3:D:9:LYS:HG3	3:D:10:ALA:N	2.19	0.55
5:F:439:ILE:O	5:F:442:SER:HB3	2.06	0.55
2:C:97:ARG:HH21	5:F:476:ARG:HE	1.52	0.55
5:F:491:GLU:O	5:F:494:ILE:N	2.39	0.55
1:G:152:TYR:CD1	2:I:824:GLN:HG2	2.41	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD11	1.87	0.55
2:I:106:GLU:HG3	2:I:107:ARG:N	2.22	0.55
2:I:1142:ARG:HD3	2:I:1161:LEU:CD1	2.33	0.55
2:I:799:ASN:HB3	2:I:1231:TYR:HD1	1.72	0.55
2:I:270:THR:HG23	2:I:273:HIS:CE1	2.41	0.55
2:I:502:VAL:O	2:I:505:PHE:HB3	2.05	0.55
2:I:944:ARG:HA	2:I:947:GLU:HG3	1.89	0.55
3:J:1234:VAL:HG12	3:J:1253:ILE:HG21	1.88	0.55
3:J:1262:ARG:HG3	3:J:1281:GLU:OE1	2.07	0.55
3:J:491:LEU:HB2	3:J:904:ALA:CA	2.33	0.55
3:J:690:ASN:HA	3:J:743:MET:SD	2.47	0.55
3:J:85:CYS:SG	3:J:87:LYS:HB2	2.46	0.55
3:J:885:VAL:HG12	3:J:894:VAL:CG1	2.37	0.55
1:A:40:GLY:HA3	1:A:185:TYR:CD2	2.42	0.55
2:C:1052:VAL:C	2:C:1053:TYR:HD1	2.10	0.55
2:C:1185:PRO:HG2	2:C:1188:ASP:O	2.06	0.55
2:C:1191:LYS:CE	2:C:1193:ALA:H	2.20	0.55
2:C:1246:ARG:NH1	2:C:1249:GLY:HA3	2.21	0.55
2:C:131:THR:HB	2:C:133:ASN:H	1.70	0.55
2:C:144:VAL:O	2:C:145:ILE:HD12	2.07	0.55
2:C:478:ARG:HH12	2:C:482:GLY:CA	2.20	0.55
2:C:447:HIS:CE1	2:C:553:THR:HG21	2.41	0.55
2:C:729:ALA:O	2:C:755:LYS:NZ	2.36	0.55
2:C:798:GLN:OE1	2:C:827:ARG:NH2	2.26	0.55
3:D:432:LEU:C	3:D:434:ILE:H	2.09	0.55
3:D:517:CYS:N	3:D:545:HIS:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LYS:HE2	3:D:855:ASP:HB3	1.88	0.55
3:D:888:CYS:SG	3:D:890:THR:CG2	2.89	0.55
5:F:396:ASN:O	5:F:396:ASN:ND2	2.40	0.55
5:F:511:ILE:CG2	5:F:517:SER:HB2	2.37	0.55
2:I:1180:MET:HG2	2:I:1181:PRO:CD	2.36	0.55
2:I:131:THR:OG1	2:I:135:THR:O	2.14	0.55
3:J:83:VAL:HG13	3:J:92:VAL:HG13	1.88	0.55
2:C:1330:ILE:HG23	2:C:1335:ILE:HB	1.88	0.55
2:C:396:ASP:OD1	2:C:398:SER:N	2.24	0.55
3:D:919:ALA:HA	3:D:1252:HIS:ND1	2.21	0.55
3:D:161:THR:CG2	3:D:164:GLN:H	2.19	0.55
3:D:317:THR:HG22	3:D:322:ARG:O	2.07	0.55
3:D:805:GLN:HG2	3:D:806:ASP:N	2.21	0.55
5:F:415:ALA:HB2	5:F:434:TRP:HB2	1.89	0.55
1:G:167:PRO:HB2	1:G:170:ARG:CG	2.32	0.55
1:G:89:ALA:HB1	1:G:210:THR:CG2	2.35	0.55
1:H:88:LEU:HD12	1:H:89:ALA:N	2.21	0.55
2:I:13:LYS:HZ2	2:I:1149:TYR:HA	1.71	0.55
2:I:347:ILE:O	2:I:350:THR:HB	2.07	0.55
2:I:404:LYS:HD3	2:I:586:PHE:CZ	2.31	0.55
3:J:372:MET:O	3:J:376:LEU:HB2	2.07	0.55
3:J:378:LYS:CB	3:J:379:PRO:HD3	2.36	0.55
3:J:42:GLU:HG3	5:L:451:ARG:HG2	1.88	0.55
3:J:491:LEU:HD13	3:J:496:GLY:O	2.05	0.55
3:J:842:ARG:HD3	3:J:882:VAL:CG1	2.32	0.55
4:K:49:ILE:HG12	4:K:52:ARG:HD3	1.89	0.55
2:C:1238:LEU:HD12	2:C:1238:LEU:N	2.21	0.55
2:C:1336:ASN:ND2	3:D:29:MET:CE	2.69	0.55
2:C:81:ASP:OD1	2:C:82:VAL:N	2.40	0.55
2:C:86:GLN:HG3	2:C:140:GLY:O	2.07	0.55
3:D:1234:VAL:CA	3:D:1237:VAL:HG12	2.35	0.55
3:D:1307:LEU:HD11	3:D:1311:LYS:CG	2.36	0.55
3:D:205:LEU:HA	3:D:217:LEU:CD2	2.29	0.55
3:D:399:LYS:HB3	3:D:403:ARG:HH22	1.72	0.55
3:D:809:VAL:HG22	3:D:915:ILE:HD13	1.88	0.55
5:F:135:ALA:HA	5:F:256:PHE:CE2	2.42	0.55
5:F:354:THR:HG23	5:F:357:GLN:H	1.72	0.55
5:F:574:GLU:HB3	5:F:584:ARG:NH2	2.22	0.55
1:H:175:ALA:HB1	1:H:177:TYR:CZ	2.42	0.55
1:G:150:ARG:NH2	1:H:32:GLU:OE1	2.39	0.55
1:H:48:LEU:CD2	3:J:539:SER:HB3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1070:HIS:CD2	2:I:1111:GLN:HB3	2.42	0.55
2:I:669:PRO:CB	2:I:1184:THR:HB	2.37	0.55
2:I:1260:GLY:HA3	2:I:1265:PHE:CA	2.32	0.55
2:I:247:ARG:HG3	2:I:247:ARG:HH11	1.71	0.55
2:I:606:LEU:HD23	2:I:611:GLU:HA	1.89	0.55
2:I:864:LYS:NZ	2:I:877:VAL:HG12	2.20	0.55
2:I:901:LEU:CG	2:I:905:ILE:HD11	2.37	0.55
3:J:290:ILE:N	3:J:290:ILE:HD12	2.22	0.55
5:L:544:THR:OG1	5:L:545:HIS:N	2.39	0.55
1:B:95:LYS:CE	1:B:98:VAL:HG23	2.37	0.54
3:D:1313:SER:C	3:D:1315:ALA:H	2.10	0.54
3:D:450:HIS:CE1	3:D:452:LEU:HD12	2.42	0.54
3:D:425:ARG:NH1	3:D:459:ALA:HA	2.21	0.54
3:D:653:ILE:HA	3:D:656:GLU:CD	2.27	0.54
2:C:1314:GLN:HG2	4:E:28:ARG:NH1	2.22	0.54
5:F:565:ILE:O	5:F:567:MET:HG3	2.07	0.54
5:F:562:ARG:NH2	5:F:573:LEU:HB3	2.21	0.54
1:G:23:HIS:CE1	1:G:204:GLU:HG3	2.41	0.54
1:G:77:ASP:O	1:G:80:GLU:N	2.40	0.54
2:I:1100:PRO:O	2:I:1101:LEU:HD23	2.06	0.54
2:I:1119:MET:HG3	2:I:1204:LEU:HD13	1.88	0.54
2:I:878:THR:HB	2:I:925:SER:OG	2.07	0.54
3:J:1191:PRO:C	3:J:1193:TRP:H	2.08	0.54
3:J:268:LEU:HB3	3:J:306:LEU:CD2	2.36	0.54
3:J:75:TYR:N	3:J:75:TYR:CD1	2.75	0.54
3:J:60:ARG:HA	3:J:89:GLY:O	2.08	0.54
1:A:91:ARG:HH21	1:A:122:GLU:CD	2.11	0.54
1:B:59:VAL:CG2	1:B:144:ILE:HD11	2.37	0.54
1:B:289:LEU:HD23	1:B:295:LEU:CD1	2.37	0.54
2:C:936:ARG:NH2	2:C:1046:VAL:O	2.40	0.54
2:C:1075:VAL:HG23	3:D:461:PHE:O	2.07	0.54
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.36	0.54
2:C:697:LYS:HA	2:C:795:ALA:CB	2.34	0.54
2:C:720:ARG:NH2	2:C:741:MET:HA	2.22	0.54
2:C:803:ALA:HB1	2:C:1227:VAL:HG12	1.88	0.54
3:D:1356:LEU:HD23	3:D:1357:ILE:N	2.21	0.54
3:D:222:LYS:HE2	3:D:1273:ASP:OD2	2.07	0.54
3:D:516:ASP:HA	3:D:545:HIS:CB	2.37	0.54
3:D:670:SER:HB2	3:D:672:LEU:HD11	1.86	0.54
5:F:492:ASP:O	5:F:496:LYS:N	2.25	0.54
1:G:191:ARG:HH22	1:G:197:ASP:CA	2.13	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:195:ARG:HG2	1:G:198:LEU:CD1	2.37	0.54
1:H:134:THR:HG23	1:H:135:ASP:N	2.22	0.54
2:I:303:ASP:O	2:I:307:GLY:N	2.40	0.54
2:I:384:LEU:HG	2:I:385:PHE:N	2.21	0.54
2:I:895:LEU:HD11	2:I:900:LYS:HG3	1.88	0.54
3:J:132:LEU:O	3:J:135:ILE:N	2.39	0.54
3:J:142:GLU:OE2	5:L:100:MET:HG2	2.07	0.54
3:J:652:GLU:O	3:J:656:GLU:HG3	2.06	0.54
3:J:769:VAL:HB	3:J:770:LEU:HD13	1.90	0.54
3:J:847:ASP:CB	3:J:860:ARG:H	2.20	0.54
5:L:448:ARG:HG2	5:L:448:ARG:NH1	2.19	0.54
5:L:474:MET:O	5:L:476:ARG:N	2.40	0.54
1:B:282:VAL:HG21	1:B:316:MET:CE	2.37	0.54
2:C:1333:LEU:HD22	3:D:307:LEU:HD22	1.89	0.54
2:C:201:ARG:NH1	2:C:201:ARG:CG	2.67	0.54
2:C:204:LEU:HD12	2:C:369:MET:HE3	1.90	0.54
2:C:871:VAL:HG22	2:C:872:TYR:N	2.23	0.54
2:C:919:ARG:O	2:C:921:PRO:HD3	2.07	0.54
3:D:115:TRP:NE1	3:D:1329:THR:HG23	2.22	0.54
3:D:1375:ALA:HB1	3:J:853:THR:CB	2.38	0.54
3:D:916:GLY:O	3:D:919:ALA:HB3	2.06	0.54
4:E:58:LEU:O	4:E:59:ILE:HD13	2.06	0.54
5:F:394:TYR:HB2	5:F:404:LEU:HD22	1.90	0.54
5:F:585:GLU:HA	5:F:588:ARG:CG	2.33	0.54
1:G:15:ASP:OD2	1:G:17:GLU:HB2	2.08	0.54
1:G:8:PHE:O	1:G:9:LEU:HB2	2.05	0.54
2:I:175:ARG:NH2	2:I:185:ASP:OD2	2.41	0.54
2:I:555:TYR:OH	2:I:654:ASP:OD1	2.18	0.54
2:I:90:VAL:HG12	2:I:91:THR:H	1.72	0.54
3:J:1163:VAL:HG22	3:J:1164:SER:H	1.72	0.54
3:J:1316:THR:CG2	3:J:1318:SER:HB3	2.37	0.54
3:J:247:PRO:O	3:J:249:LEU:N	2.41	0.54
3:J:368:LEU:HD21	3:J:373:ALA:HB2	1.89	0.54
3:D:1372:ARG:HE	3:J:854:ALA:HB2	1.72	0.54
3:J:903:LEU:CD2	3:J:909:ILE:HD12	2.37	0.54
5:L:266:PHE:O	5:L:270:VAL:HG23	2.07	0.54
1:B:136:GLU:CG	1:B:137:ASN:N	2.68	0.54
1:B:62:ASP:HB3	1:B:142:MET:SD	2.48	0.54
1:B:82:LEU:HD23	1:B:85:LEU:HD12	1.90	0.54
2:C:1066:MET:CE	2:C:1076:ILE:CG2	2.86	0.54
2:C:700:VAL:HG13	2:C:1117:LEU:CD2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1191:LYS:O	2:C:1195:ILE:HG13	2.07	0.54
2:C:197:ARG:HD2	2:C:200:ARG:HA	1.90	0.54
2:C:197:ARG:HD3	2:C:201:ARG:O	2.07	0.54
2:C:617:ALA:CB	2:C:653:MET:HB2	2.36	0.54
2:C:841:ARG:HG3	2:C:841:ARG:NH1	2.23	0.54
3:D:160:LEU:CD1	3:D:165:TYR:HA	2.37	0.54
3:D:473:THR:HG23	3:D:476:ALA:HB2	1.87	0.54
3:D:795:TYR:CD2	3:D:795:TYR:C	2.81	0.54
1:G:224:LEU:C	1:G:224:LEU:HD23	2.26	0.54
2:I:745:GLU:CA	2:I:1017:GLN:HG3	2.36	0.54
2:I:729:ALA:O	2:I:755:LYS:NZ	2.40	0.54
3:J:111:THR:OG1	3:J:299:LEU:HD23	2.07	0.54
2:I:1296:ASP:HB2	3:J:345:LYS:HD3	1.89	0.54
3:J:385:LEU:HD21	3:J:411:ILE:CG1	2.30	0.54
2:I:1075:VAL:CG2	3:J:463:GLY:CA	2.85	0.54
3:J:425:ARG:HH12	3:J:464:ASP:CB	2.20	0.54
3:J:72:CYS:SG	3:J:73:GLY:N	2.81	0.54
3:J:91:GLU:OE1	3:J:93:THR:OG1	2.25	0.54
5:L:119:ILE:CA	5:L:122:ARG:HG3	2.36	0.54
5:L:124:GLU:O	5:L:127:ILE:HB	2.07	0.54
5:L:287:ILE:CG2	5:L:315:TRP:CH2	2.90	0.54
5:L:98:VAL:CB	5:L:402:LEU:HD21	2.35	0.54
2:C:1111:GLN:HB2	2:C:1230:MET:HE1	1.89	0.54
2:C:397:LEU:HB3	2:C:401:GLY:HA3	1.89	0.54
2:C:488:MET:N	2:C:491:ASP:OD2	2.34	0.54
2:C:738:GLU:HA	2:C:741:MET:HE2	1.90	0.54
2:C:817:LEU:C	2:C:817:LEU:HD22	2.27	0.54
2:C:890:LYS:NZ	2:C:891:GLY:O	2.36	0.54
3:D:357:VAL:N	3:D:461:PHE:CE1	2.75	0.54
3:D:781:LYS:O	3:D:784:ALA:HB3	2.07	0.54
5:F:124:GLU:HA	5:F:127:ILE:CG1	2.38	0.54
5:F:290:LEU:O	5:F:294:GLN:HB3	2.07	0.54
5:F:548:LEU:HD23	5:F:548:LEU:N	2.17	0.54
1:G:41:ASN:HD22	1:H:41:ASN:ND2	2.04	0.54
2:I:600:THR:HG21	2:I:602:GLU:HG2	1.89	0.54
2:I:769:PRO:HA	2:I:784:ALA:CB	2.38	0.54
2:I:796:LEU:H	2:I:796:LEU:HD12	1.71	0.54
2:I:954:LYS:O	2:I:957:LYS:HB3	2.06	0.54
3:J:395:LYS:O	3:J:399:LYS:HE3	2.06	0.54
3:J:580:TRP:CH2	3:J:587:LEU:O	2.60	0.54
3:J:609:TYR:OH	3:J:906:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:695:LYS:HD3	3:J:695:LYS:N	2.21	0.54
2:C:377:THR:H	2:C:380:ALA:HB3	1.73	0.54
2:C:550:VAL:HG11	3:D:776:THR:CG2	2.38	0.54
2:C:600:THR:HB	2:C:602:GLU:H	1.72	0.54
2:C:735:LYS:HA	2:C:748:ILE:HG22	1.90	0.54
3:D:425:ARG:CG	3:D:426:ALA:N	2.71	0.54
3:D:428:THR:O	3:D:428:THR:HG22	2.06	0.54
3:D:435:GLN:HB2	3:D:457:TYR:OH	2.08	0.54
3:D:370:LYS:N	3:D:442:ILE:O	2.38	0.54
3:D:746:LEU:N	3:D:746:LEU:HD12	2.22	0.54
3:D:762:ASN:OD1	3:D:765:GLU:HG3	2.08	0.54
5:F:402:LEU:C	5:F:405:ILE:HG23	2.28	0.54
5:F:608:ARG:HH21	5:F:609:SER:HA	1.70	0.54
1:G:44:ARG:HA	1:G:47:LEU:HB2	1.89	0.54
1:H:211:ILE:HD12	1:H:212:ASP:H	1.71	0.54
2:I:12:ARG:HA	2:I:1181:PRO:HB2	1.89	0.54
2:I:1332:SER:O	3:J:243:PRO:HG2	2.07	0.54
2:I:510:GLN:O	2:I:511:LEU:HD23	2.07	0.54
2:I:517:GLN:O	2:I:517:GLN:CG	2.56	0.54
2:I:607:SER:OG	2:I:609:ILE:HG13	2.07	0.54
2:I:519:ASN:HD22	2:I:689:ALA:HB3	1.69	0.54
2:I:835:GLU:C	2:I:836:LEU:HD12	2.27	0.54
3:J:930:LEU:HB2	3:J:1138:LEU:HB2	1.89	0.54
3:J:1241:TYR:HD2	3:J:1246:VAL:CG1	2.21	0.54
3:J:44:ILE:HA	3:J:50:LYS:O	2.07	0.54
3:J:511:TYR:HB2	3:J:596:LEU:O	2.08	0.54
3:J:770:LEU:N	3:J:770:LEU:HD22	2.22	0.54
3:J:805:GLN:C	3:J:807:LEU:H	2.11	0.54
5:L:485:GLU:O	5:L:487:MET:N	2.40	0.54
1:A:45:ARG:HG3	1:A:46:ILE:CD1	2.37	0.54
1:B:284:ARG:HG3	1:B:288:GLU:HG3	1.89	0.54
2:C:1185:PRO:HD2	2:C:1189:GLY:HA2	1.90	0.54
2:C:74:ARG:HH12	2:C:121:GLU:CD	2.11	0.54
2:C:538:LEU:HD12	2:C:538:LEU:H	1.69	0.54
2:C:582:ASN:CB	2:C:586:PHE:H	2.21	0.54
2:C:706:ARG:HH11	2:C:706:ARG:HG2	1.73	0.54
3:D:1186:TYR:HE2	3:D:1188:GLU:HB2	1.72	0.54
3:D:1282:TYR:CB	3:D:1286:LYS:HE3	2.37	0.54
3:D:125:GLY:O	3:D:128:LEU:N	2.40	0.54
3:D:134:ASP:O	3:D:137:ARG:HB3	2.08	0.54
3:D:139:LEU:HD21	3:D:182:ALA:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:215:LYS:O	3:D:219:LYS:HB3	2.07	0.54
5:F:448:ARG:HD3	5:F:450:ILE:O	2.08	0.54
5:F:460:ILE:HG22	5:F:461:ASN:N	2.22	0.54
1:G:96:ASP:OD2	1:G:148:ARG:NH2	2.37	0.54
1:G:167:PRO:CG	1:G:170:ARG:HD2	2.34	0.54
2:I:1287:LEU:O	2:I:1290:MET:HB3	2.08	0.54
2:I:157:PHE:CZ	2:I:431:LYS:HG2	2.43	0.54
2:I:600:THR:HG22	2:I:602:GLU:H	1.72	0.54
2:I:670:PHE:CD2	2:I:1113:LEU:HB3	2.43	0.54
2:I:864:LYS:HZ2	2:I:877:VAL:HG12	1.72	0.54
2:I:5:TYR:HA	2:I:8:LYS:CD	2.36	0.54
3:J:1154:ALA:HA	3:J:1211:SER:OG	2.07	0.54
3:J:215:LYS:HE2	3:J:216:LYS:HG3	1.90	0.54
2:I:1294:LYS:HD3	3:J:472:LEU:HD11	1.90	0.54
3:J:471:PRO:HB3	3:J:476:ALA:HB1	1.89	0.54
2:I:1222:GLU:HG3	3:J:634:ARG:O	2.08	0.54
3:J:857:LEU:CD1	3:J:858:VAL:H	2.16	0.54
4:K:50:ALA:O	4:K:54:ILE:HG12	2.06	0.54
5:L:412:LEU:CA	5:L:435:ILE:HD11	2.38	0.54
2:C:86:GLN:HA	2:C:140:GLY:HA2	1.87	0.54
2:C:237:LEU:HB3	2:C:287:VAL:O	2.07	0.54
2:C:698:PRO:HB3	2:C:1231:TYR:CG	2.43	0.54
3:D:120:LEU:O	3:D:122:SER:N	2.40	0.54
3:D:288:PRO:HG3	5:F:380:VAL:CG1	2.25	0.54
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.88	0.54
2:I:964:LEU:HB2	2:I:1025:PHE:CD2	2.43	0.54
2:I:396:ASP:HA	2:I:418:GLY:O	2.08	0.54
2:I:614:TYR:CD1	2:I:652:TYR:HE1	2.26	0.54
2:I:836:LEU:N	2:I:836:LEU:HD12	2.23	0.54
5:L:502:LYS:HB3	5:L:504:PRO:HB3	1.90	0.54
1:A:171:LEU:HD22	1:A:171:LEU:N	2.23	0.54
1:B:97:GLU:HB3	1:B:145:LYS:HE3	1.89	0.54
1:B:89:ALA:HB3	1:B:124:VAL:H	1.72	0.54
2:C:818:VAL:CG2	2:C:1096:ILE:HG12	2.37	0.54
2:C:208:ILE:HG23	2:C:362:ALA:CB	2.37	0.54
2:C:370:MET:O	2:C:372:PRO:HD3	2.08	0.54
2:C:524:ILE:HD11	2:C:712:SER:N	2.22	0.54
2:C:783:LEU:O	2:C:784:ALA:HB2	2.08	0.54
3:D:253:VAL:HG21	5:F:523:ILE:HD13	1.89	0.54
3:D:527:LEU:HD21	3:D:536:LEU:CD2	2.36	0.54
3:D:562:GLU:OE1	3:D:563:LEU:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:190:ALA:HB2	1:G:200:LYS:HE3	1.88	0.54
1:G:88:LEU:HD12	1:G:89:ALA:N	2.20	0.54
2:I:1212:LEU:HD22	2:I:1225:VAL:HG22	1.90	0.54
2:I:1304:MET:O	2:I:1307:ASN:N	2.40	0.54
2:I:596:ASP:OD2	2:I:597:GLY:N	2.39	0.54
2:I:70:TYR:OH	2:I:72:SER:HA	2.08	0.54
3:J:271:ARG:O	3:J:274:ASN:HB2	2.08	0.54
3:J:378:LYS:O	3:J:381:ILE:HB	2.07	0.54
3:J:527:LEU:HD23	3:J:532:GLU:OE2	2.07	0.54
3:J:608:CYS:SG	3:J:617:THR:HG23	2.47	0.54
3:J:825:VAL:HG22	3:J:832:LYS:N	2.23	0.54
5:L:141:ILE:HD12	5:L:141:ILE:N	2.23	0.54
1:A:178:SER:OG	1:A:180:VAL:HG23	2.08	0.54
1:B:178:SER:O	1:B:178:SER:OG	2.25	0.54
2:C:1128:ILE:O	2:C:1131:MET:N	2.41	0.54
2:C:1268:GLN:NE2	3:D:352:ARG:CD	2.66	0.54
2:C:548:ARG:HG3	2:C:548:ARG:HH11	1.73	0.54
2:C:903:ARG:NH2	2:C:910:ALA:HB2	2.22	0.54
2:C:934:PHE:HD2	2:C:934:PHE:N	2.05	0.54
3:D:418:GLU:O	3:D:420:PRO:HD3	2.08	0.54
3:D:664:ILE:HA	3:D:667:GLN:OE1	2.08	0.54
3:D:806:ASP:HA	3:D:1347:LEU:HD12	1.90	0.54
3:D:848:VAL:CG1	3:D:857:LEU:HB2	2.37	0.54
5:F:240:ARG:CD	5:F:244:THR:HB	2.29	0.54
1:G:41:ASN:HA	1:G:185:TYR:CE1	2.43	0.54
2:I:1281:TYR:CD2	2:I:1281:TYR:N	2.75	0.54
2:I:1294:LYS:O	3:J:348:ASP:HB2	2.08	0.54
2:I:1339:LEU:N	2:I:1339:LEU:HD12	2.23	0.54
2:I:213:LEU:HD11	2:I:425:ILE:HD12	1.90	0.54
2:I:47:TYR:HD2	2:I:461:GLU:OE2	1.91	0.54
2:I:125:GLY:HA2	2:I:499:SER:HB2	1.90	0.54
2:I:637:ARG:HA	2:I:642:SER:HA	1.89	0.54
2:I:74:ARG:CZ	2:I:97:ARG:HG3	2.38	0.54
3:J:1170:LYS:C	3:J:1172:LYS:N	2.61	0.54
3:J:1239:ASP:O	3:J:1243:LEU:CB	2.49	0.54
3:J:527:LEU:N	3:J:550:VAL:HG12	2.18	0.54
3:J:657:ALA:O	3:J:660:GLU:HB2	2.07	0.54
3:J:707:ILE:O	3:J:714:GLU:N	2.28	0.54
5:L:128:ASN:O	5:L:131:GLN:N	2.41	0.54
2:C:1214:ASP:OD1	2:C:1215:GLY:N	2.41	0.53
2:C:1243:MET:SD	3:D:445:LYS:HB3	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:189:ASP:HB3	2:C:195:PHE:HE2	1.72	0.53
2:C:227:LYS:HZ3	2:C:298:ALA:HB1	1.71	0.53
2:C:347:ILE:HG22	2:C:348:SER:N	2.23	0.53
2:C:490:GLN:CG	5:F:472:GLN:HB3	2.38	0.53
2:C:4:SER:HB3	2:C:7:GLU:CG	2.38	0.53
2:C:745:GLU:CD	2:C:1017:GLN:HB3	2.29	0.53
3:D:1233:ILE:O	3:D:1237:VAL:HG12	2.09	0.53
2:C:1284:ALA:HB3	3:D:479:GLU:OE1	2.07	0.53
3:D:810:THR:HG23	3:D:894:VAL:H	1.72	0.53
5:F:297:MET:CE	5:F:330:LEU:HD11	2.38	0.53
3:D:264:ASP:OD2	5:F:506:SER:HB2	2.08	0.53
5:F:545:HIS:C	5:F:545:HIS:ND1	2.61	0.53
1:G:221:ALA:O	1:G:224:LEU:HB3	2.08	0.53
1:G:16:ILE:HG12	1:G:26:VAL:HG23	1.89	0.53
1:G:50:SER:OG	1:H:35:PHE:HZ	1.91	0.53
1:H:136:GLU:CG	1:H:137:ASN:H	2.19	0.53
2:I:1117:LEU:HD23	2:I:1118:GLY:N	2.23	0.53
2:I:545:PHE:O	2:I:548:ARG:N	2.28	0.53
2:I:944:ARG:O	2:I:948:ILE:HD12	2.07	0.53
3:J:1328:THR:O	3:J:1332:LEU:HD23	2.08	0.53
3:J:362:ARG:H	3:J:365:GLN:HE21	1.56	0.53
3:J:42:GLU:HG2	5:L:451:ARG:CZ	2.37	0.53
3:J:674:THR:HG23	3:J:677:GLU:HB2	1.90	0.53
3:J:708:ASN:HA	3:J:712:GLN:O	2.09	0.53
5:L:128:ASN:O	5:L:131:GLN:HB2	2.09	0.53
1:A:13:LEU:HD11	1:A:16:ILE:HD11	1.88	0.53
1:B:156:SER:O	1:B:156:SER:OG	2.24	0.53
2:C:979:LEU:HD23	2:C:1000:LEU:HD12	1.91	0.53
2:C:817:LEU:HD13	2:C:1097:VAL:HB	1.86	0.53
2:C:245:ARG:HG3	2:C:245:ARG:HH11	1.74	0.53
2:C:421:SER:O	2:C:424:ASP:N	2.42	0.53
2:C:569:ILE:HG22	2:C:570:GLY:H	1.72	0.53
2:C:98:VAL:C	2:C:121:GLU:HA	2.28	0.53
3:D:1360:GLY:CA	4:E:17:PHE:CE2	2.90	0.53
3:D:218:THR:HA	3:D:221:ILE:HG22	1.89	0.53
3:D:262:THR:OG1	3:D:263:SER:N	2.42	0.53
5:F:273:MET:O	5:F:277:MET:N	2.40	0.53
5:F:573:LEU:HD13	5:F:573:LEU:N	2.23	0.53
2:I:489:PRO:O	2:I:490:GLN:CB	2.55	0.53
2:I:617:ALA:HB3	2:I:653:MET:CG	2.38	0.53
2:I:685:MET:HE1	2:I:1071:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:897:PRO:HB2	5:L:565:ILE:HB	1.89	0.53
3:J:882:VAL:HG12	3:J:883:ARG:N	2.23	0.53
5:L:213:ASP:HB2	5:L:216:LEU:HB3	1.90	0.53
5:L:230:VAL:O	5:L:234:THR:HG23	2.08	0.53
5:L:561:MET:HG2	5:L:571:TYR:CB	2.37	0.53
1:A:25:LYS:HG2	1:A:204:GLU:HG3	1.89	0.53
1:B:105:SER:OG	1:B:139:SER:HA	2.07	0.53
1:B:11:PRO:O	1:B:12:ARG:HB2	2.08	0.53
2:C:106:GLU:OE1	2:C:114:VAL:HG22	2.09	0.53
2:C:593:LYS:HB3	2:C:602:GLU:HG2	1.87	0.53
2:C:81:ASP:N	2:C:84:GLU:HG3	2.22	0.53
2:C:883:LEU:HD13	2:C:1052:VAL:HG11	1.91	0.53
3:D:1163:VAL:HG22	3:D:1164:SER:N	2.23	0.53
3:D:1252:HIS:CA	3:D:1255:VAL:HG13	2.37	0.53
2:C:1308:ILE:HD12	3:D:380:PHE:CE2	2.43	0.53
3:D:588:PRO:HB2	3:D:590:SER:HG	1.71	0.53
2:I:389:PHE:CD1	2:I:395:TYR:CE1	2.97	0.53
2:I:618:GLN:O	2:I:621:SER:OG	2.22	0.53
3:J:930:LEU:HD12	3:J:1138:LEU:HD13	1.89	0.53
3:J:1157:ALA:HB3	3:J:1206:ARG:CA	2.33	0.53
3:J:1241:TYR:CD1	3:J:1241:TYR:N	2.76	0.53
3:J:1280:VAL:HG11	3:J:1304:ARG:CZ	2.38	0.53
3:J:1309:ILE:O	3:J:1312:ALA:HB3	2.07	0.53
3:J:1319:PHE:HD1	3:J:1319:PHE:C	2.11	0.53
3:J:144:TYR:CE1	3:J:165:TYR:CE1	2.97	0.53
3:J:27:PRO:HB3	3:J:241:VAL:HG23	1.90	0.53
3:J:31:ARG:CZ	3:J:241:VAL:HG21	2.39	0.53
3:J:357:VAL:CG1	3:J:359:PRO:HD3	2.38	0.53
5:L:227:GLN:HG2	5:L:255:VAL:CG2	2.37	0.53
2:C:143:ARG:HH21	2:C:512:SER:C	2.11	0.53
2:C:766:ASN:OD1	2:C:767:GLN:N	2.41	0.53
2:C:879:GLY:N	2:C:925:SER:OG	2.42	0.53
3:D:1149:ARG:CZ	3:D:1153:PRO:CG	2.86	0.53
3:D:1234:VAL:CG2	3:D:1235:ASN:N	2.70	0.53
3:D:795:TYR:CE2	3:D:799:ARG:HD3	2.39	0.53
3:D:915:ILE:CA	3:D:918:ILE:HG23	2.39	0.53
5:F:231:THR:CG2	5:F:249:ILE:HA	2.39	0.53
5:F:248:GLU:HG2	5:F:251:LYS:HD2	1.90	0.53
3:D:295:GLU:OE1	5:F:406:GLN:HG2	2.07	0.53
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.91	0.53
1:G:75:GLN:HA	2:I:729:ALA:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1024:GLU:HA	2:I:1027:LYS:CD	2.37	0.53
2:I:685:MET:HE2	2:I:1071:GLY:HA2	1.88	0.53
2:I:115:LYS:HE2	2:I:116:ASP:OD1	2.08	0.53
2:I:497:PRO:O	2:I:500:ALA:HB3	2.08	0.53
2:I:669:PRO:HB3	2:I:702:THR:CG2	2.39	0.53
2:I:732:ILE:HD11	2:I:769:PRO:HA	1.91	0.53
2:I:870:ILE:CG2	2:I:944:ARG:HD3	2.38	0.53
3:J:1310:THR:HG23	3:J:1311:LYS:N	2.24	0.53
3:J:1352:ILE:CD1	3:J:1352:ILE:N	2.71	0.53
3:J:263:SER:CA	5:L:507:MET:HE2	2.38	0.53
3:J:291:ILE:O	3:J:294:ASN:N	2.40	0.53
3:J:396:ALA:O	3:J:399:LYS:N	2.41	0.53
3:J:475:GLU:OE1	3:J:475:GLU:N	2.36	0.53
3:J:71:LEU:HB2	3:J:90:VAL:HG21	1.88	0.53
3:D:1372:ARG:CZ	3:J:854:ALA:HB3	2.37	0.53
5:L:225:ARG:O	5:L:229:VAL:HG13	2.08	0.53
5:L:270:VAL:HG12	5:L:274:ARG:CZ	2.38	0.53
5:L:414:LYS:HZ1	5:L:434:TRP:HZ3	1.55	0.53
1:A:158:ARG:NH2	1:A:173:VAL:O	2.35	0.53
1:A:187:VAL:CG1	1:A:201:LEU:HD13	2.29	0.53
1:A:61:ILE:HD11	1:A:142:MET:HE2	1.89	0.53
1:B:12:ARG:O	1:B:13:LEU:HB3	2.08	0.53
1:B:62:ASP:HB3	1:B:142:MET:HE2	1.90	0.53
1:B:282:VAL:HG23	1:B:314:LEU:HA	1.90	0.53
2:C:1142:ARG:NH1	2:C:1169:VAL:HG21	2.24	0.53
2:C:1120:ALA:HB1	2:C:1198:LEU:HD12	1.90	0.53
2:C:1200:LYS:O	2:C:1203:ASP:N	2.34	0.53
2:C:142:GLU:N	2:C:760:ASN:HD21	2.05	0.53
2:C:20:GLN:O	2:C:20:GLN:HG3	2.07	0.53
2:C:358:ASP:CG	2:C:361:SER:HB2	2.29	0.53
2:C:139:ASN:HD21	2:C:503:LYS:NZ	2.05	0.53
2:C:81:ASP:O	2:C:84:GLU:HG3	2.08	0.53
2:C:882:ILE:H	2:C:882:ILE:CD1	2.02	0.53
3:D:1309:ILE:O	3:D:1312:ALA:N	2.40	0.53
3:D:22:ILE:HD11	3:D:1336:ALA:HB2	1.91	0.53
3:D:418:GLU:O	3:D:481:ARG:NH2	2.42	0.53
3:D:589:TYR:O	3:D:591:ILE:N	2.42	0.53
3:D:514:THR:OG1	3:D:596:LEU:HD23	2.09	0.53
3:D:706:VAL:CG1	3:D:715:LYS:HB3	2.26	0.53
4:E:19:LEU:C	4:E:19:LEU:HD12	2.28	0.53
5:F:246:GLN:O	5:F:250:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:ARG:HG3	1:H:183:ILE:HD13	1.91	0.53
2:I:1132:LEU:HD11	2:I:1174:GLU:OE2	2.09	0.53
2:I:149:LEU:HD11	2:I:451:ARG:HB3	1.89	0.53
2:I:490:GLN:HG2	2:I:490:GLN:O	2.08	0.53
3:J:1226:VAL:O	3:J:1230:THR:HG22	2.08	0.53
3:J:1316:THR:HG21	3:J:1318:SER:HB3	1.91	0.53
3:J:148:GLU:H	3:J:156:ARG:CG	2.17	0.53
3:J:288:PRO:HG2	3:J:291:ILE:CD1	2.39	0.53
2:I:1116:HIS:HE1	3:J:641:ILE:HB	1.71	0.53
4:K:3:ARG:HA	4:K:3:ARG:HE	1.73	0.53
5:L:508:GLU:HA	5:L:508:GLU:OE2	2.09	0.53
1:A:234:LEU:HD12	1:B:218:ARG:NH1	2.22	0.53
1:B:99:ILE:HG13	1:B:144:ILE:O	2.08	0.53
1:B:201:LEU:HG	1:B:203:ILE:CD1	2.39	0.53
1:B:255:ARG:HG2	1:B:255:ARG:NH1	2.23	0.53
2:C:1006:GLU:H	2:C:1006:GLU:CD	2.12	0.53
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.91	0.53
2:C:1172:LEU:O	2:C:1176:LEU:HG	2.09	0.53
2:C:1210:ILE:HG22	2:C:1211:ARG:N	2.22	0.53
2:C:1338:GLU:OE2	3:D:21:LYS:HE3	2.09	0.53
2:C:17:LYS:N	2:C:1188:ASP:OD2	2.42	0.53
2:C:236:LYS:HB3	2:C:237:LEU:HD23	1.91	0.53
2:C:462:ASN:O	2:C:466:VAL:HG23	2.09	0.53
2:C:465:ARG:O	2:C:468:LEU:N	2.41	0.53
2:C:127:ILE:HG22	2:C:502:VAL:HG21	1.90	0.53
2:C:524:ILE:HD12	2:C:712:SER:CB	2.38	0.53
2:C:896:THR:HB	2:C:897:PRO:HD2	1.90	0.53
3:D:647:PRO:HG3	3:D:697:MET:CA	2.38	0.53
5:F:115:GLY:O	5:F:119:ILE:HG12	2.08	0.53
5:F:495:ARG:HA	5:F:498:LEU:CD2	2.25	0.53
1:G:134:THR:CG2	2:I:726:TYR:CE1	2.91	0.53
1:G:60:GLU:CG	1:G:143:ARG:HH21	2.21	0.53
2:I:1298:VAL:HG13	2:I:1299:ASN:N	2.23	0.53
2:I:17:LYS:O	2:I:17:LYS:HD3	2.08	0.53
2:I:901:LEU:HG	2:I:905:ILE:CD1	2.36	0.53
3:J:308:ASP:CG	3:J:311:ARG:HE	2.09	0.53
3:J:356:THR:HG23	3:J:446:ALA:HB1	1.89	0.53
3:J:400:MET:O	3:J:405:GLU:HG3	2.09	0.53
3:J:572:THR:HG23	3:J:573:THR:O	2.09	0.53
3:J:611:ILE:HB	3:J:612:LEU:HD12	1.91	0.53
2:C:1131:MET:HE1	2:C:1141:LEU:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1254:VAL:HG13	2:C:1255:THR:H	1.72	0.53
2:C:1287:LEU:HD23	2:C:1288:GLN:CA	2.39	0.53
2:C:1305:TYR:CD2	5:F:531:PRO:CB	2.92	0.53
2:C:629:PHE:CE2	2:C:634:VAL:HG11	2.43	0.53
2:C:839:VAL:HG12	2:C:1049:ILE:CG1	2.24	0.53
3:D:1209:VAL:C	3:D:1210:ILE:HD13	2.29	0.53
3:D:1218:HIS:H	3:D:1218:HIS:CD2	2.24	0.53
3:D:152:THR:HB	3:D:172:PHE:CD1	2.43	0.53
3:D:473:THR:HG23	3:D:476:ALA:H	1.73	0.53
3:D:521:LYS:NZ	3:D:540:GLY:O	2.36	0.53
3:D:820:ILE:N	3:D:882:VAL:O	2.42	0.53
3:D:843:VAL:O	3:D:883:ARG:HB2	2.09	0.53
5:F:281:ARG:CB	5:F:281:ARG:CZ	2.87	0.53
5:F:577:GLY:C	5:F:579:GLN:H	2.10	0.53
2:I:1033:ARG:HH11	2:I:1033:ARG:HG2	1.74	0.53
2:I:148:GLN:NE2	2:I:533:LEU:O	2.42	0.53
2:I:161:LYS:HZ3	2:I:161:LYS:H	1.54	0.53
2:I:237:LEU:O	2:I:238:GLN:HG3	2.09	0.53
2:I:445:ILE:HG22	2:I:446:ASP:N	2.24	0.53
2:I:529:ARG:HG2	2:I:530:ILE:H	1.74	0.53
2:I:732:ILE:CD1	2:I:784:ALA:HB2	2.38	0.53
2:I:810:TYR:HE1	2:I:1078:LYS:NZ	1.97	0.53
2:I:798:GLN:HG3	2:I:828:PHE:CE1	2.44	0.53
3:J:1156:LEU:CA	3:J:1210:ILE:HG12	2.38	0.53
3:J:307:LEU:HD23	3:J:307:LEU:N	2.23	0.53
2:I:1281:TYR:HE2	3:J:431:ARG:HB2	1.73	0.53
3:J:479:GLU:OE1	3:J:1361:THR:OG1	2.19	0.53
3:J:548:VAL:HG12	3:J:549:LYS:O	2.08	0.53
3:J:723:TYR:CE1	3:J:727:ASP:HB2	2.43	0.53
3:J:923:ILE:O	3:J:926:PRO:HD2	2.08	0.53
1:A:44:ARG:HE	1:A:183:ILE:HG22	1.74	0.53
1:A:191:ARG:HH12	1:A:197:ASP:HA	1.74	0.53
2:C:1108:ASN:C	2:C:1110:GLY:H	2.12	0.53
2:C:1183:ALA:O	2:C:1185:PRO:HD3	2.09	0.53
2:C:1285:TYR:O	2:C:1288:GLN:N	2.42	0.53
2:C:230:PHE:CE2	2:C:292:ILE:HD11	2.44	0.53
2:C:736:VAL:HG23	2:C:748:ILE:HA	1.90	0.53
3:D:1199:PHE:N	3:D:1199:PHE:CD1	2.77	0.53
3:D:270:ARG:CZ	5:F:449:THR:HG23	2.39	0.53
3:D:491:LEU:CB	3:D:904:ALA:HA	2.38	0.53
3:J:1163:VAL:HG23	3:J:1175:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1170:LYS:HD3	3:J:1189:MET:SD	2.49	0.53
3:J:1343:GLU:HB3	3:J:1373:ARG:HH12	1.74	0.53
2:I:1284:ALA:CB	3:J:1361:THR:HB	2.24	0.53
3:J:423:LEU:HG	3:J:466:MET:HE2	1.90	0.53
3:J:576:ARG:HD3	3:J:594:GLN:O	2.07	0.53
3:J:798:ARG:HG2	3:J:798:ARG:NH1	2.24	0.53
5:L:448:ARG:HH21	5:L:501:ALA:HA	1.74	0.53
5:L:483:LEU:O	5:L:486:ARG:N	2.42	0.53
3:J:263:SER:HB2	5:L:507:MET:HE1	1.91	0.53
1:A:9:LEU:HD23	1:A:9:LEU:N	2.22	0.53
2:C:811:ASN:ND2	2:C:1099:ASN:N	2.57	0.53
2:C:1323:PHE:O	2:C:1326:LEU:N	2.42	0.53
2:C:390:PHE:C	2:C:419:ILE:HG21	2.29	0.53
2:C:725:GLN:OE1	2:C:735:LYS:NZ	2.36	0.53
2:C:745:GLU:CB	2:C:1017:GLN:CB	2.87	0.53
2:C:1328:LYS:HE2	3:D:102:MET:HG3	1.90	0.53
3:D:215:LYS:HD2	3:D:219:LYS:NZ	2.24	0.53
3:D:517:CYS:N	3:D:545:HIS:HB2	2.24	0.53
3:D:674:THR:OG1	3:D:675:ALA:N	2.39	0.53
3:D:853:THR:O	3:D:854:ALA:HB3	2.09	0.53
3:D:848:VAL:N	3:D:858:VAL:O	2.35	0.53
5:F:130:VAL:HA	5:F:133:SER:CB	2.39	0.53
5:F:410:ILE:HG22	5:F:411:GLY:N	2.24	0.53
2:I:208:ILE:HG22	2:I:209:ILE:N	2.23	0.53
2:I:471:VAL:HG12	2:I:472:GLU:N	2.21	0.53
2:I:525:THR:HG21	2:I:687:ARG:CD	2.39	0.53
2:I:817:LEU:HD13	2:I:1097:VAL:HG21	1.90	0.53
2:I:9:LYS:O	2:I:1175:ASN:ND2	2.41	0.53
3:J:1280:VAL:CG1	3:J:1304:ARG:HH21	2.08	0.53
3:J:803:VAL:CG2	3:J:1312:ALA:HB3	2.39	0.53
3:J:193:ASP:O	3:J:197:GLU:HG3	2.09	0.53
3:J:341:ASN:C	3:J:342:LEU:HD23	2.28	0.53
3:J:739:GLN:HB3	3:J:763:PHE:HE2	1.74	0.53
3:J:814:CYS:SG	3:J:815:GLY:N	2.82	0.53
3:J:847:ASP:CB	3:J:856:ILE:HD13	2.38	0.53
1:A:86:LYS:HD3	1:A:176:CYS:SG	2.48	0.53
1:A:213:PRO:O	1:A:216:ALA:HB3	2.08	0.53
1:A:57:THR:HG22	1:A:58:GLU:N	2.23	0.53
1:A:66:HIS:ND1	1:A:66:HIS:C	2.61	0.53
1:B:22:THR:O	1:B:206:GLU:HA	2.08	0.53
1:B:208:ASN:OD1	1:B:209:GLY:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:HIS:HD1	1:B:206:GLU:HG2	1.73	0.53
2:C:1023:HIS:O	2:C:1027:LYS:HG2	2.09	0.53
2:C:1160:ASP:CB	2:C:1161:LEU:CA	2.69	0.53
2:C:1285:TYR:O	2:C:1289:GLU:N	2.30	0.53
2:C:22:LEU:HD22	2:C:23:ASP:H	1.74	0.53
2:C:803:ALA:CB	2:C:1227:VAL:HG12	2.39	0.53
3:D:147:ILE:N	3:D:177:ASP:O	2.35	0.53
3:D:328:ALA:O	3:D:331:ILE:HG12	2.09	0.53
3:D:394:ILE:CG1	3:D:395:LYS:N	2.72	0.53
3:D:74:LYS:HB3	3:D:75:TYR:CE1	2.43	0.53
3:D:788:LEU:O	3:D:791:ALA:N	2.42	0.53
3:D:67:ASP:OD1	3:D:94:GLN:HB3	2.09	0.53
4:E:15:ASN:C	4:E:17:PHE:N	2.62	0.53
1:H:185:TYR:HB2	1:H:201:LEU:HD11	1.91	0.53
1:H:76:GLU:HG2	1:H:80:GLU:HG2	1.90	0.53
2:I:1259:LEU:HG	2:I:1260:GLY:N	2.22	0.53
1:G:134:THR:CB	2:I:773:LEU:HD11	2.39	0.53
2:I:992:LEU:HD23	2:I:992:LEU:H	1.73	0.53
3:J:185:ILE:O	3:J:188:LEU:HB2	2.09	0.53
4:K:39:VAL:CG2	4:K:40:PRO:HD2	2.30	0.53
5:L:113:ARG:O	5:L:116:GLU:HB2	2.08	0.53
5:L:137:TYR:HD2	5:L:140:ALA:HB2	1.74	0.53
5:L:448:ARG:NE	5:L:452:ILE:HD12	2.24	0.53
1:B:100:LEU:O	1:B:143:ARG:HA	2.09	0.52
1:B:37:HIS:CG	2:C:1216:ARG:HD2	2.44	0.52
2:C:1330:ILE:O	2:C:1333:LEU:HB2	2.09	0.52
2:C:297:VAL:HG12	2:C:315:MET:O	2.09	0.52
2:C:143:ARG:HB3	2:C:513:GLN:O	2.09	0.52
2:C:906:PHE:CZ	5:F:605:GLU:HB2	2.43	0.52
2:C:921:PRO:HB2	2:C:924:VAL:HG21	1.90	0.52
3:D:812:ASP:HA	3:D:911:LYS:HE3	1.91	0.52
5:F:320:ILE:HG12	5:F:330:LEU:HD12	1.91	0.52
5:F:348:GLU:HG2	5:F:355:ILE:HG12	1.89	0.52
1:G:88:LEU:CD1	1:G:128:HIS:HD2	2.20	0.52
1:H:66:HIS:HA	1:H:67:GLU:OE1	2.09	0.52
2:I:306:THR:OG1	2:I:308:GLU:HB2	2.08	0.52
2:I:463:GLN:NE2	2:I:501:ALA:O	2.42	0.52
2:I:797:GLY:O	2:I:1231:TYR:OH	2.19	0.52
2:I:810:TYR:HD2	3:J:359:PRO:HG2	1.74	0.52
2:I:869:GLY:C	2:I:870:ILE:HD12	2.30	0.52
3:J:825:VAL:HG13	3:J:833:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:ASP:HB2	1:A:141:SER:O	2.08	0.52
1:B:28:LEU:N	1:B:201:LEU:O	2.42	0.52
2:C:1141:LEU:O	2:C:1144:PHE:N	2.41	0.52
2:C:98:VAL:HG21	2:C:124:MET:HE2	1.88	0.52
2:C:13:LYS:NZ	2:C:1148:ALA:O	2.41	0.52
2:C:685:MET:SD	2:C:1073:LYS:CG	2.97	0.52
2:C:804:PHE:O	3:D:638:SER:HB2	2.10	0.52
2:C:843:THR:N	2:C:846:GLY:O	2.35	0.52
2:C:838:CYS:SG	2:C:884:VAL:HG11	2.49	0.52
2:C:845:LEU:HB2	2:C:889:PRO:HG2	1.90	0.52
2:C:934:PHE:CD2	2:C:934:PHE:N	2.76	0.52
3:D:1136:GLY:HA2	3:D:1140:ARG:HG2	1.92	0.52
3:D:1184:ASP:O	3:D:1186:TYR:N	2.42	0.52
3:D:1280:VAL:HG13	3:D:1284:ARG:NE	2.24	0.52
3:D:1331:VAL:O	3:D:1335:ALA:N	2.42	0.52
3:D:31:ARG:NH2	3:D:241:VAL:HG21	2.24	0.52
3:D:512:TYR:CE1	3:D:635:SER:HB2	2.45	0.52
3:D:516:ASP:OD1	3:D:516:ASP:N	2.41	0.52
3:D:678:ARG:NH1	3:D:679:TYR:HA	2.23	0.52
3:D:797:THR:O	3:D:801:VAL:HG12	2.09	0.52
5:F:545:HIS:C	5:F:545:HIS:HD1	2.12	0.52
2:I:800:MET:HE3	2:I:1096:ILE:HD11	1.91	0.52
2:I:130:MET:CB	2:I:136:PHE:HE1	2.17	0.52
2:I:193:ASN:HD21	2:I:353:VAL:HG21	1.73	0.52
2:I:193:ASN:ND2	2:I:353:VAL:HG21	2.24	0.52
2:I:216:THR:OG1	2:I:219:GLN:N	2.40	0.52
2:I:303:ASP:OD1	2:I:306:THR:HG23	2.10	0.52
2:I:402:ARG:HH12	2:I:424:ASP:CG	2.13	0.52
2:I:850:ILE:HG22	2:I:850:ILE:O	2.09	0.52
2:I:1107:MET:SD	3:J:739:GLN:NE2	2.82	0.52
3:J:905:ARG:CD	4:K:16:ARG:HD2	2.40	0.52
5:L:105:MET:O	5:L:105:MET:HG2	2.09	0.52
3:J:294:ASN:HD22	5:L:406:GLN:CD	2.12	0.52
5:L:558:VAL:HG11	5:L:590:ILE:HG21	1.91	0.52
1:A:228:LEU:HD11	1:B:224:LEU:HG	1.90	0.52
1:B:224:LEU:HD12	1:B:224:LEU:O	2.10	0.52
2:C:1009:ASN:HA	2:C:1012:GLU:HB2	1.92	0.52
2:C:210:LEU:HB3	2:C:220:ILE:HD11	1.91	0.52
2:C:227:LYS:HZ2	2:C:298:ALA:HB1	1.73	0.52
2:C:366:ILE:O	2:C:370:MET:N	2.31	0.52
2:C:531:SER:C	2:C:533:LEU:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:660:VAL:HG22	2:C:661:VAL:HG12	1.91	0.52
2:C:870:ILE:HG21	2:C:944:ARG:HD3	1.86	0.52
3:D:1280:VAL:HG22	3:D:1284:ARG:NE	2.20	0.52
3:D:215:LYS:O	3:D:219:LYS:CB	2.56	0.52
3:D:303:VAL:O	3:D:306:LEU:N	2.42	0.52
3:D:317:THR:HA	3:D:324:LEU:CG	2.38	0.52
3:D:557:LYS:HA	3:D:562:GLU:O	2.09	0.52
3:D:824:PRO:N	3:D:835:LEU:HD13	2.25	0.52
3:D:850:LYS:HG2	3:D:857:LEU:CD1	2.17	0.52
5:F:141:ILE:HD11	5:F:256:PHE:CE1	2.44	0.52
5:F:311:THR:O	5:F:341:LEU:HB3	2.08	0.52
1:G:150:ARG:HD2	1:H:8:PHE:CZ	2.45	0.52
2:I:745:GLU:HA	2:I:1017:GLN:HG3	1.91	0.52
2:I:1172:LEU:HD11	2:I:1176:LEU:HD11	1.91	0.52
2:I:189:ASP:CB	2:I:190:PRO:CD	2.87	0.52
2:I:320:ASP:O	2:I:323:ALA:N	2.42	0.52
2:I:425:ILE:O	2:I:428:VAL:HB	2.09	0.52
2:I:607:SER:HG	2:I:610:GLU:HG3	1.74	0.52
3:J:912:GLY:HA2	3:J:1363:TYR:CD1	2.44	0.52
5:L:358:VAL:HA	5:L:361:ILE:CD1	2.40	0.52
1:A:156:SER:C	1:A:158:ARG:H	2.12	0.52
1:B:217:ILE:HA	1:B:220:ALA:HB3	1.92	0.52
2:C:569:ILE:C	2:C:571:LEU:H	2.03	0.52
2:C:563:THR:HG21	2:C:569:ILE:HG22	1.91	0.52
2:C:623:LEU:HD23	2:C:623:LEU:N	2.25	0.52
2:C:897:PRO:HB3	5:F:563:PHE:O	2.07	0.52
2:C:5:TYR:HA	2:C:8:LYS:HG2	1.91	0.52
3:D:650:LYS:HE2	3:D:654:ILE:HD11	1.91	0.52
3:D:872:LEU:CB	3:D:877:VAL:HG11	2.40	0.52
5:F:130:VAL:HA	5:F:133:SER:HB2	1.90	0.52
5:F:269:LEU:HA	5:F:272:SER:HB3	1.90	0.52
1:G:177:TYR:O	1:G:178:SER:HB2	2.10	0.52
1:H:47:LEU:HD13	1:H:180:VAL:CG1	2.37	0.52
1:H:65:LEU:C	1:H:171:LEU:HD11	2.29	0.52
2:I:797:GLY:HA3	2:I:1233:LEU:HD13	1.91	0.52
2:I:1239:VAL:HG21	3:J:445:LYS:CB	2.40	0.52
2:I:144:VAL:HG12	2:I:145:ILE:N	2.25	0.52
2:I:297:VAL:HA	2:I:334:GLU:O	2.10	0.52
1:G:134:THR:CA	2:I:773:LEU:HD11	2.40	0.52
2:I:963:GLU:O	2:I:967:LEU:HB2	2.08	0.52
3:J:128:LEU:HD21	3:J:189:LEU:CD2	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1290:ARG:HD3	3:J:1294:ALA:HB3	1.91	0.52
3:J:399:LYS:HA	3:J:402:GLU:OE2	2.09	0.52
3:J:629:PHE:O	3:J:632:ALA:HB3	2.08	0.52
3:J:847:ASP:HB2	3:J:856:ILE:HD13	1.91	0.52
3:J:97:VAL:C	3:J:99:ARG:H	2.13	0.52
5:L:130:VAL:O	5:L:134:VAL:HG23	2.09	0.52
1:B:123:ILE:HG22	1:B:126:PRO:CD	2.34	0.52
1:B:273:GLU:CD	1:B:293:PRO:HG2	2.30	0.52
2:C:1053:TYR:N	2:C:1053:TYR:CD1	2.78	0.52
2:C:1182:ILE:HG22	2:C:1183:ALA:H	1.73	0.52
2:C:1199:LEU:HD13	2:C:1205:PRO:O	2.10	0.52
2:C:245:ARG:CZ	2:C:337:PHE:CD2	2.92	0.52
2:C:581:THR:HG22	2:C:585:GLY:HA2	1.91	0.52
3:D:123:ARG:O	3:D:127:LEU:HB3	2.08	0.52
3:D:510:LEU:O	3:D:514:THR:HG22	2.09	0.52
3:D:562:GLU:OE1	3:D:562:GLU:HA	2.09	0.52
3:D:513:MET:HE3	3:D:579:LEU:HD22	1.90	0.52
3:D:609:TYR:HB2	3:D:617:THR:CG2	2.33	0.52
3:D:706:VAL:CG1	3:D:715:LYS:HE2	2.40	0.52
5:F:274:ARG:NH1	5:F:369:GLU:OE2	2.43	0.52
1:H:112:ALA:O	1:H:115:ILE:HG13	2.10	0.52
2:I:1119:MET:HB2	2:I:1228:GLY:CA	2.39	0.52
2:I:688:GLN:O	2:I:1235:LEU:HD22	2.09	0.52
2:I:86:GLN:HG3	2:I:140:GLY:CA	2.40	0.52
2:I:147:SER:OG	2:I:455:SER:HB3	2.10	0.52
2:I:593:LYS:HA	2:I:652:TYR:CE2	2.45	0.52
2:I:74:ARG:O	2:I:96:LEU:HD12	2.09	0.52
2:I:848:GLU:CD	2:I:888:THR:HG22	2.29	0.52
2:I:5:TYR:CA	2:I:8:LYS:HG2	2.38	0.52
3:J:394:ILE:O	3:J:394:ILE:HD12	2.10	0.52
3:J:355:ILE:HD13	3:J:466:MET:SD	2.49	0.52
3:J:927:GLY:O	3:J:930:LEU:HG	2.08	0.52
1:B:97:GLU:HB3	1:B:145:LYS:CE	2.40	0.52
2:C:745:GLU:HB2	2:C:1017:GLN:CG	2.38	0.52
2:C:1053:TYR:HD1	2:C:1053:TYR:N	2.07	0.52
1:A:41:ASN:CB	2:C:1218:GLY:HA3	2.37	0.52
2:C:742:TYR:HD2	2:C:743:PRO:HD2	1.74	0.52
2:C:761:GLN:O	2:C:763:THR:N	2.43	0.52
2:C:796:LEU:HD12	2:C:796:LEU:H	1.74	0.52
2:C:878:THR:OG1	2:C:879:GLY:N	2.40	0.52
3:D:1257:VAL:HG12	3:D:1258:ARG:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1282:TYR:HD2	3:D:1286:LYS:NZ	2.05	0.52
3:D:802:ASP:CG	3:D:1325:PHE:HD2	2.11	0.52
3:D:1348:LYS:HG3	8:D:2004:4C4:C21	2.39	0.52
3:D:153:ASN:HB2	3:D:172:PHE:HZ	1.72	0.52
3:D:365:GLN:HA	3:D:438:GLU:O	2.10	0.52
3:D:514:THR:OG1	3:D:594:GLN:O	2.27	0.52
3:D:684:ASP:O	3:D:687:ALA:N	2.42	0.52
2:C:894:GLN:NE2	3:D:77:ARG:NH1	2.58	0.52
4:E:6:VAL:HG23	4:E:10:VAL:HG23	1.91	0.52
5:F:240:ARG:CB	5:F:244:THR:HB	2.39	0.52
5:F:466:ILE:HD12	5:F:487:MET:CE	2.40	0.52
1:G:11:PRO:HB3	1:G:31:LEU:CD2	2.39	0.52
1:G:124:VAL:HG21	1:G:209:GLY:C	2.30	0.52
1:G:89:ALA:HB1	1:G:210:THR:HG23	1.92	0.52
1:H:84:ASN:O	1:H:128:HIS:HE1	1.93	0.52
2:I:1042:LEU:HD12	2:I:1046:VAL:CG2	2.39	0.52
2:I:115:LYS:HE3	2:I:115:LYS:HA	1.91	0.52
2:I:614:TYR:CE1	2:I:652:TYR:HE1	2.28	0.52
2:I:5:TYR:C	2:I:8:LYS:HG2	2.29	0.52
3:J:1262:ARG:HB2	3:J:1262:ARG:NH1	2.23	0.52
3:J:515:ARG:HG3	3:J:516:ASP:N	2.25	0.52
3:J:748:ALA:CA	3:J:754:ILE:HA	2.38	0.52
3:J:798:ARG:HG2	3:J:798:ARG:HH11	1.72	0.52
3:J:908:ILE:HD13	3:J:909:ILE:O	2.10	0.52
5:L:311:THR:HG21	5:L:348:GLU:OE2	2.10	0.52
3:J:259:ARG:HD3	5:L:502:LYS:HD2	1.92	0.52
1:B:307:LEU:CD2	1:B:314:LEU:HB2	2.37	0.52
1:B:79:LEU:HA	1:B:82:LEU:HB2	1.91	0.52
2:C:1258:PRO:HG2	3:D:346:ARG:C	2.30	0.52
2:C:303:ASP:CB	2:C:306:THR:HG22	2.39	0.52
3:D:1160:SER:HA	3:D:1204:VAL:O	2.10	0.52
3:D:1334:GLU:O	3:D:1337:VAL:HG22	2.10	0.52
3:D:407:VAL:O	3:D:411:ILE:HG12	2.10	0.52
3:D:530:PRO:HA	3:D:533:ALA:HB2	1.91	0.52
3:D:649:LYS:HD2	3:D:652:GLU:OE1	2.10	0.52
5:F:361:ILE:CG1	5:F:362:ASN:N	2.72	0.52
5:F:421:TYR:C	5:F:423:ARG:N	2.61	0.52
1:H:153:VAL:N	1:H:175:ALA:O	2.26	0.52
1:G:45:ARG:HH12	1:H:37:HIS:HB3	1.75	0.52
2:I:1175:ASN:C	2:I:1176:LEU:HD23	2.30	0.52
2:I:1214:ASP:HB2	2:I:1221:PHE:HZ	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:685:MET:HB3	2:I:1235:LEU:HD11	1.91	0.52
2:I:30:ILE:CD1	2:I:30:ILE:N	2.73	0.52
2:I:736:VAL:CG2	2:I:748:ILE:HA	2.39	0.52
2:I:994:ARG:HA	2:I:997:TRP:CE2	2.45	0.52
3:J:1249:ASN:ND2	3:J:1251:LYS:HZ3	2.08	0.52
5:L:270:VAL:HA	5:L:273:MET:HE2	1.91	0.52
5:L:359:LYS:HG3	5:L:360:ASP:N	2.25	0.52
5:L:439:ILE:O	5:L:442:SER:HB3	2.10	0.52
1:A:26:VAL:HG23	1:A:28:LEU:HD11	1.91	0.52
1:A:85:LEU:O	1:A:88:LEU:N	2.38	0.52
2:C:1031:ALA:O	2:C:1034:ARG:N	2.43	0.52
1:A:45:ARG:HE	2:C:1083:GLU:HB3	1.73	0.52
2:C:195:PHE:CD1	2:C:203:LYS:HG2	2.45	0.52
2:C:390:PHE:HA	2:C:419:ILE:HG21	1.91	0.52
2:C:62:TYR:C	2:C:64:GLY:N	2.62	0.52
2:C:724:VAL:CG1	2:C:727:VAL:HG23	2.40	0.52
2:C:742:TYR:HD2	2:C:743:PRO:CD	2.23	0.52
3:D:130:MET:CG	3:D:131:PRO:HD2	2.38	0.52
3:D:421:VAL:HA	3:D:471:PRO:HD3	1.92	0.52
5:F:446:GLN:HG3	5:F:446:GLN:O	2.09	0.52
5:F:462:LYS:HE3	5:F:487:MET:SD	2.50	0.52
2:I:1333:LEU:O	3:J:243:PRO:HG3	2.09	0.52
2:I:247:ARG:CZ	2:I:247:ARG:HB2	2.38	0.52
2:I:600:THR:CG2	2:I:602:GLU:H	2.22	0.52
2:I:516:ASP:CA	2:I:761:GLN:HE22	2.15	0.52
3:J:1146:GLU:OE2	3:J:1146:GLU:HA	2.09	0.52
3:J:119:SER:OG	3:J:1333:THR:HG21	2.10	0.52
3:J:1269:ALA:HB2	3:J:1274:PHE:CD1	2.45	0.52
3:J:172:PHE:N	3:J:172:PHE:CD2	2.76	0.52
3:J:431:ARG:HG3	3:J:432:LEU:HD23	1.91	0.52
3:J:704:GLU:HG3	3:J:704:GLU:O	2.09	0.52
3:J:826:ILE:N	3:J:831:VAL:HA	2.24	0.52
3:J:869:CYS:HA	3:J:872:LEU:HB2	1.92	0.52
4:K:4:VAL:HG13	4:K:5:THR:HG23	1.91	0.52
4:K:66:VAL:HG22	4:K:69:ARG:NH2	2.25	0.52
5:L:130:VAL:HA	5:L:133:SER:CB	2.40	0.52
5:L:388:ILE:O	5:L:392:LYS:HB2	2.10	0.52
5:L:448:ARG:CZ	5:L:452:ILE:HD12	2.39	0.52
1:B:100:LEU:HD11	1:B:118:ASP:CG	2.31	0.52
1:B:212:ASP:HB2	1:B:213:PRO:HD2	1.91	0.52
1:B:303:ILE:O	1:B:305:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1006:GLU:OE2	2:C:1007:LYS:HG3	2.10	0.52
2:C:1247:SER:OG	2:C:1248:THR:N	2.43	0.52
2:C:1319:MET:HG3	2:C:1320:PRO:HD2	1.90	0.52
2:C:671:LEU:O	2:C:674:ASP:N	2.37	0.52
3:D:1162:ILE:HD12	3:D:1163:VAL:N	2.22	0.52
3:D:1323:ALA:HB2	3:D:1331:VAL:CG1	2.37	0.52
3:D:254:PRO:O	3:D:255:LEU:HD13	2.10	0.52
3:D:352:ARG:HB3	3:D:467:ALA:CB	2.40	0.52
3:D:537:TYR:O	3:D:539:SER:N	2.43	0.52
3:D:820:ILE:HG22	3:D:1227:HIS:CE1	2.45	0.52
1:G:218:ARG:HG3	1:H:232:VAL:HA	1.91	0.52
1:H:153:VAL:HG11	1:H:158:ARG:HD3	1.91	0.52
1:H:183:ILE:HD12	1:H:183:ILE:N	2.21	0.52
1:H:37:HIS:CE1	2:I:1216:ARG:HD2	2.45	0.52
2:I:817:LEU:HD21	2:I:1080:ASN:HB2	1.92	0.52
2:I:1242:LYS:O	2:I:1244:HIS:CE1	2.63	0.52
2:I:84:GLU:HA	2:I:87:ILE:HD12	1.91	0.52
3:J:279:LEU:HD23	3:J:279:LEU:C	2.31	0.52
3:J:313:GLY:O	3:J:314:ARG:HG3	2.10	0.52
3:J:313:GLY:C	3:J:314:ARG:HG3	2.31	0.52
3:J:409:TRP:O	3:J:412:LEU:HB3	2.10	0.52
3:J:365:GLN:HA	3:J:438:GLU:H	1.74	0.52
3:J:580:TRP:CE3	3:J:583:VAL:HG21	2.45	0.52
3:J:674:THR:HG23	3:J:677:GLU:CG	2.40	0.52
3:J:722:ILE:O	3:J:725:MET:HB2	2.10	0.52
5:L:288:MET:HG3	5:L:302:PHE:CE2	2.45	0.52
5:L:396:ASN:ND2	5:L:396:ASN:O	2.43	0.52
5:L:532:LEU:HD13	5:L:532:LEU:C	2.30	0.52
1:A:231:PHE:CD2	1:B:43:LEU:HD21	2.44	0.52
1:A:81:ILE:O	1:A:84:ASN:N	2.39	0.52
1:A:90:VAL:HG23	1:A:123:ILE:HD13	1.90	0.52
1:B:100:LEU:HD11	1:B:118:ASP:OD1	2.09	0.52
1:B:46:ILE:CG2	1:B:47:LEU:N	2.68	0.52
2:C:1284:ALA:CB	3:D:1361:THR:CB	2.77	0.52
2:C:1292:THR:HG22	2:C:1293:VAL:N	2.24	0.52
2:C:226:GLU:HB2	2:C:245:ARG:HH22	1.75	0.52
2:C:297:VAL:HB	2:C:317:LEU:HD21	1.92	0.52
2:C:471:VAL:O	2:C:474:ALA:HB3	2.09	0.52
2:C:674:ASP:OD1	2:C:1108:ASN:HB2	2.10	0.52
3:D:26:SER:O	3:D:30:ILE:N	2.43	0.52
2:C:1305:TYR:OH	3:D:379:PRO:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:487:THR:O	3:D:490:ILE:CG2	2.58	0.52
3:D:661:VAL:CG2	3:D:662:ALA:N	2.73	0.52
3:D:679:TYR:C	3:D:679:TYR:CD2	2.84	0.52
3:D:795:TYR:HD2	3:D:795:TYR:C	2.14	0.52
5:F:269:LEU:O	5:F:273:MET:HG3	2.09	0.52
5:F:292:VAL:HG11	5:F:299:LYS:HG2	1.92	0.52
1:G:81:ILE:CA	1:G:84:ASN:HD22	2.18	0.52
2:I:614:TYR:HD1	2:I:652:TYR:CE1	2.28	0.52
3:J:16:GLU:HG3	3:J:17:PHE:CD2	2.37	0.52
3:J:190:LYS:HA	3:J:235:GLU:OE2	2.10	0.52
3:J:269:TYR:O	3:J:271:ARG:N	2.43	0.52
2:I:1073:LYS:HB2	3:J:462:ASP:HB2	1.92	0.52
3:J:528:THR:HG22	3:J:532:GLU:CD	2.31	0.52
3:J:639:VAL:HG12	3:J:725:MET:CE	2.39	0.52
5:L:139:GLU:C	5:L:141:ILE:H	2.09	0.52
5:L:501:ALA:O	5:L:502:LYS:HB2	2.10	0.52
1:A:152:TYR:CD2	1:A:154:PRO:HD3	2.45	0.51
1:B:85:LEU:C	1:B:87:GLY:H	2.13	0.51
2:C:115:LYS:HD3	2:C:116:ASP:N	2.25	0.51
2:C:157:PHE:O	2:C:442:VAL:HB	2.10	0.51
2:C:494:ASN:HD21	2:C:496:LYS:NZ	2.07	0.51
2:C:593:LYS:HE3	2:C:595:THR:CG2	2.40	0.51
2:C:74:ARG:HB3	2:C:74:ARG:HH11	1.74	0.51
1:A:68:TYR:HB3	2:C:756:TYR:HD2	1.75	0.51
2:C:836:LEU:HD12	2:C:836:LEU:N	2.25	0.51
3:D:107:LEU:HD12	3:D:240:THR:C	2.30	0.51
3:D:751:ASP:CB	3:D:753:SER:H	2.23	0.51
3:D:807:LEU:HD23	3:D:915:ILE:HG13	1.93	0.51
5:F:113:ARG:HA	5:F:116:GLU:CD	2.30	0.51
5:F:575:GLU:O	5:F:579:GLN:HG3	2.10	0.51
5:F:99:ARG:NH1	5:F:103:ARG:HB2	2.25	0.51
1:G:66:HIS:CD2	2:I:929:ILE:HG22	2.44	0.51
2:I:1223:ARG:HH11	2:I:1223:ARG:CB	2.24	0.51
2:I:1287:LEU:HD23	2:I:1288:GLN:HA	1.92	0.51
2:I:158:ASP:CG	2:I:159:SER:N	2.64	0.51
2:I:168:GLY:C	2:I:170:VAL:H	2.12	0.51
3:J:1262:ARG:CB	3:J:1262:ARG:NH1	2.74	0.51
3:J:349:TYR:O	3:J:350:SER:HB3	2.08	0.51
2:I:1281:TYR:CD2	3:J:431:ARG:HB2	2.44	0.51
2:I:1075:VAL:HG23	3:J:461:PHE:O	2.10	0.51
3:J:425:ARG:NH1	3:J:464:ASP:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:842:ARG:HB3	3:J:882:VAL:CG1	2.40	0.51
3:J:418:GLU:OE1	4:K:2:ALA:N	2.43	0.51
1:B:311:GLY:O	1:B:312:LEU:HD12	2.10	0.51
2:C:1220:GLN:CG	2:C:1221:PHE:N	2.73	0.51
3:D:114:ILE:HB	3:D:304:ASP:OD1	2.09	0.51
3:D:1280:VAL:HG11	3:D:1304:ARG:NH2	2.25	0.51
3:D:1319:PHE:C	3:D:1319:PHE:HD1	2.14	0.51
3:D:333:GLY:O	3:D:335:GLN:N	2.41	0.51
4:E:68:GLU:C	4:E:70:GLN:H	2.13	0.51
3:D:140:TYR:HD2	5:F:100:MET:CE	2.23	0.51
5:F:408:GLY:HA2	5:F:439:ILE:HG22	1.92	0.51
1:G:33:ARG:HG3	1:G:197:ASP:OD2	2.10	0.51
1:G:187:VAL:HA	1:G:201:LEU:HD13	1.92	0.51
1:G:49:SER:O	1:G:51:MET:N	2.39	0.51
2:I:1120:ALA:HB2	2:I:1199:LEU:CG	2.40	0.51
2:I:795:ALA:HB1	2:I:1231:TYR:OH	2.11	0.51
2:I:130:MET:SD	2:I:134:GLY:HA2	2.49	0.51
2:I:218:GLU:O	2:I:222:ASP:HB2	2.10	0.51
2:I:411:ARG:NH1	2:I:411:ARG:HG3	2.25	0.51
2:I:944:ARG:HG3	2:I:948:ILE:CD1	2.34	0.51
3:J:1149:ARG:NH2	3:J:1153:PRO:HG2	2.25	0.51
2:I:1284:ALA:CB	3:J:1356:LEU:HD21	2.32	0.51
3:J:278:ARG:O	3:J:281:ARG:HB3	2.10	0.51
3:J:583:VAL:CG1	3:J:587:LEU:HD22	2.38	0.51
3:J:875:ASN:C	3:J:877:VAL:H	2.13	0.51
3:J:905:ARG:HH12	4:K:10:VAL:CG1	2.22	0.51
4:K:3:ARG:HE	4:K:3:ARG:CA	2.22	0.51
5:L:247:GLU:O	5:L:251:LYS:HG3	2.10	0.51
5:L:419:PHE:HZ	5:L:427:PHE:HB2	1.75	0.51
1:B:104:LYS:HG2	1:B:110:VAL:HG13	1.93	0.51
1:B:118:ASP:N	1:B:118:ASP:OD1	2.43	0.51
1:B:265:ARG:CZ	1:B:265:ARG:HB2	2.39	0.51
2:C:1132:LEU:HD11	2:C:1174:GLU:OE2	2.11	0.51
2:C:183:TRP:CD1	2:C:183:TRP:N	2.77	0.51
2:C:516:ASP:HA	2:C:761:GLN:OE1	2.10	0.51
2:C:758:ARG:HG2	2:C:759:SER:O	2.11	0.51
2:C:886:LYS:O	2:C:916:SER:N	2.38	0.51
3:D:1142:ALA:O	3:D:1146:GLU:N	2.38	0.51
3:D:1155:ILE:N	3:D:1155:ILE:HD12	2.24	0.51
3:D:362:ARG:O	3:D:364:HIS:N	2.43	0.51
2:C:1281:TYR:CE1	3:D:484:MET:HE3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:618:VAL:HG12	3:D:619:ILE:N	2.25	0.51
3:D:643:ASP:O	3:D:720:ASN:ND2	2.43	0.51
3:D:846:GLU:O	3:D:846:GLU:HG3	2.10	0.51
5:F:485:GLU:O	5:F:487:MET:N	2.32	0.51
1:H:53:GLY:O	1:H:148:ARG:HA	2.09	0.51
2:I:1124:ILE:O	2:I:1128:ILE:HG13	2.09	0.51
2:I:198:ILE:CD1	2:I:369:MET:HE3	2.41	0.51
2:I:498:ILE:O	2:I:502:VAL:HG12	2.10	0.51
3:J:227:PHE:HA	3:J:230:SER:HB3	1.92	0.51
3:J:355:ILE:HD13	3:J:466:MET:CG	2.39	0.51
3:J:599:LYS:HA	3:J:599:LYS:CE	2.21	0.51
1:A:91:ARG:NH2	1:A:122:GLU:OE1	2.43	0.51
1:A:228:LEU:CD1	1:B:224:LEU:HG	2.40	0.51
2:C:92:TYR:HE2	2:C:129:LEU:HB2	1.75	0.51
3:D:1266:ILE:HD11	3:D:1276:GLU:N	2.25	0.51
3:D:1318:SER:OG	3:D:1342:ASP:OD2	2.10	0.51
3:D:299:LEU:O	3:D:302:ALA:N	2.42	0.51
3:D:332:LYS:C	3:D:334:LYS:H	2.12	0.51
3:D:337:ARG:HH22	3:D:1330:ARG:HH12	1.57	0.51
3:D:451:PRO:HG2	3:D:625:MET:SD	2.51	0.51
3:D:809:VAL:HG11	3:D:909:ILE:CG2	2.40	0.51
2:C:904:ALA:O	5:F:595:LEU:HD13	2.10	0.51
1:H:100:LEU:HD12	1:H:100:LEU:N	2.26	0.51
2:I:1211:ARG:HD3	2:I:1213:TYR:OH	2.10	0.51
2:I:428:VAL:HG12	2:I:429:MET:N	2.25	0.51
2:I:512:SER:O	2:I:513:GLN:HG2	2.11	0.51
2:I:697:LYS:HA	2:I:795:ALA:CB	2.38	0.51
3:J:1163:VAL:HG22	3:J:1164:SER:N	2.25	0.51
3:J:1166:GLY:O	3:J:1174:ARG:HB2	2.11	0.51
3:J:1183:SER:C	3:J:1185:PRO:HD3	2.30	0.51
3:J:139:LEU:HB3	3:J:140:TYR:CD1	2.46	0.51
3:J:147:ILE:HG13	3:J:147:ILE:O	2.11	0.51
3:J:148:GLU:N	3:J:156:ARG:HG3	2.19	0.51
5:L:462:LYS:HG2	5:L:466:ILE:HG13	1.92	0.51
5:L:562:ARG:O	5:L:563:PHE:HD1	1.93	0.51
2:I:902:LEU:HD11	5:L:604:SER:HB3	1.90	0.51
1:A:77:ASP:N	1:A:77:ASP:OD1	2.37	0.51
2:C:1126:ASP:O	2:C:1129:ASN:HB3	2.10	0.51
2:C:30:ILE:N	2:C:30:ILE:CD1	2.73	0.51
2:C:62:TYR:C	2:C:64:GLY:H	2.14	0.51
2:C:860:ALA:O	2:C:863:SER:OG	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:972:PHE:CZ	2:C:1018:TYR:HE1	2.28	0.51
3:D:171:GLU:OE1	3:D:172:PHE:HE2	1.93	0.51
2:C:812:PHE:CE2	3:D:451:PRO:CB	2.94	0.51
5:F:561:MET:O	5:F:571:TYR:N	2.34	0.51
1:H:151:GLY:O	1:H:177:TYR:HB2	2.10	0.51
1:H:208:ASN:OD1	1:H:210:THR:HG23	2.11	0.51
1:H:92:VAL:HG13	1:H:120:ASP:O	2.11	0.51
2:I:1191:LYS:HZ1	2:I:1192:GLU:HB2	1.75	0.51
2:I:289:VAL:HG22	2:I:322:LEU:HD12	1.91	0.51
2:I:453:ILE:HD11	2:I:530:ILE:CD1	2.31	0.51
2:I:526:HIS:O	2:I:529:ARG:HB2	2.10	0.51
2:I:796:LEU:HB2	2:I:1233:LEU:HD11	1.93	0.51
3:J:260:PHE:O	5:L:504:PRO:HB2	2.10	0.51
3:J:261:ALA:HB2	5:L:505:ILE:HG23	1.91	0.51
2:I:1295:SER:HB3	3:J:347:VAL:HG23	1.89	0.51
3:J:35:PHE:HD1	3:J:101:ARG:HB3	1.74	0.51
3:J:407:VAL:O	3:J:411:ILE:HG12	2.11	0.51
3:J:43:THR:HG22	3:J:57:PHE:CD2	2.45	0.51
3:J:537:TYR:CE2	3:J:544:LEU:HD22	2.45	0.51
3:J:686:TRP:O	3:J:689:ALA:HB3	2.10	0.51
1:B:140:ILE:HD12	1:B:141:SER:H	1.72	0.51
1:B:145:LYS:HG2	1:B:146:VAL:N	2.25	0.51
2:C:17:LYS:H	2:C:1188:ASP:CG	2.14	0.51
2:C:27:LEU:HD12	2:C:711:ASP:CB	2.41	0.51
2:C:851:THR:OG1	2:C:852:ALA:N	2.43	0.51
2:C:994:ARG:HA	2:C:997:TRP:NE1	2.26	0.51
3:D:1268:ASN:O	3:D:1300:ALA:HB1	2.10	0.51
3:D:313:GLY:C	3:D:314:ARG:CG	2.79	0.51
3:D:653:ILE:HA	3:D:656:GLU:CG	2.41	0.51
3:D:908:ILE:HG12	3:D:909:ILE:N	2.25	0.51
5:F:376:LYS:O	5:F:379:MET:N	2.43	0.51
5:F:585:GLU:OE2	5:F:588:ARG:HD2	2.10	0.51
1:H:127:GLN:O	1:H:127:GLN:HG2	2.10	0.51
1:H:155:ALA:N	1:H:174:ASP:OD1	2.23	0.51
1:H:68:TYR:CD2	1:H:68:TYR:N	2.77	0.51
2:I:1106:ARG:H	2:I:1106:ARG:HD3	1.76	0.51
2:I:634:VAL:O	2:I:645:PHE:N	2.44	0.51
2:I:658:GLN:O	2:I:660:VAL:N	2.43	0.51
2:I:665:ALA:C	2:I:667:LEU:N	2.64	0.51
3:J:1356:LEU:HD23	3:J:1357:ILE:HG13	1.93	0.51
3:J:673:VAL:HB	3:J:677:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:141:ILE:HG13	5:L:256:PHE:CE1	2.45	0.51
5:L:253:SER:O	5:L:257:LYS:HG3	2.10	0.51
5:L:273:MET:O	5:L:276:MET:N	2.44	0.51
1:A:12:ARG:N	1:A:30:PRO:CG	2.74	0.51
1:A:95:LYS:NZ	1:A:118:ASP:OD1	2.43	0.51
1:B:123:ILE:HG23	1:B:125:LYS:H	1.75	0.51
2:C:1301:ARG:O	2:C:1304:MET:N	2.43	0.51
2:C:221:LEU:HD21	2:C:314:ASN:HB2	1.92	0.51
2:C:350:THR:O	2:C:353:VAL:HG23	2.11	0.51
2:C:379:GLU:OE2	2:C:379:GLU:N	2.37	0.51
2:C:453:ILE:O	2:C:453:ILE:HG22	2.11	0.51
2:C:509:SER:C	2:C:511:LEU:N	2.64	0.51
2:C:599:VAL:HG12	2:C:600:THR:O	2.11	0.51
2:C:92:TYR:CD2	2:C:129:LEU:HB2	2.45	0.51
3:D:1238:GLN:O	3:D:1242:ARG:HB2	2.11	0.51
3:D:1275:LEU:HD12	3:D:1276:GLU:N	2.25	0.51
3:D:203:GLU:O	3:D:207:GLU:N	2.43	0.51
3:D:358:GLY:H	3:D:359:PRO:CD	2.21	0.51
3:D:390:LEU:HD21	3:D:407:VAL:CG1	2.40	0.51
3:D:499:ILE:HG23	3:D:500:ILE:HG12	1.93	0.51
1:G:9:LEU:HD23	1:G:10:LYS:N	2.26	0.51
1:G:118:ASP:HB3	1:G:121:VAL:HB	1.93	0.51
2:I:1066:MET:HE3	2:I:1076:ILE:HD12	1.92	0.51
2:I:1080:ASN:CB	2:I:1085:MET:HE3	2.41	0.51
2:I:1116:HIS:HE1	3:J:641:ILE:CB	2.24	0.51
2:I:1323:PHE:O	2:I:1327:LEU:HD12	2.10	0.51
2:I:471:VAL:CG1	2:I:472:GLU:N	2.74	0.51
2:I:599:VAL:HG12	2:I:600:THR:O	2.11	0.51
2:I:655:VAL:N	2:I:659:GLN:OE1	2.37	0.51
2:I:68:LEU:HD12	2:I:69:GLN:H	1.75	0.51
3:J:23:ALA:O	3:J:1336:ALA:HB1	2.11	0.51
3:J:424:ASN:HB2	3:J:433:GLY:O	2.11	0.51
3:J:419:HIS:NE2	3:J:477:GLN:OE1	2.44	0.51
3:J:707:ILE:HG22	3:J:708:ASN:N	2.18	0.51
3:J:847:ASP:HA	3:J:858:VAL:O	2.10	0.51
5:L:398:GLY:O	5:L:399:LEU:HD22	2.11	0.51
1:B:35:PHE:CD1	1:B:35:PHE:N	2.79	0.51
1:B:95:LYS:HB2	1:B:120:ASP:OD1	2.09	0.51
2:C:115:LYS:HE2	2:C:116:ASP:C	2.31	0.51
2:C:210:LEU:HB3	2:C:220:ILE:CD1	2.40	0.51
3:D:518:VAL:HG11	3:D:707:ILE:CD1	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:653:ILE:O	3:D:656:GLU:HB2	2.10	0.51
3:D:840:LEU:HD12	3:D:864:LEU:O	2.11	0.51
1:G:154:PRO:HG2	1:G:157:THR:OG1	2.11	0.51
2:I:17:LYS:NZ	2:I:1154:ASP:OD1	2.43	0.51
2:I:14:ASP:N	2:I:1157:GLN:OE1	2.32	0.51
2:I:1240:ASP:HB3	3:J:445:LYS:HZ2	1.76	0.51
2:I:1254:VAL:O	3:J:99:ARG:NH2	2.40	0.51
2:I:496:LYS:HA	2:I:499:SER:HB3	1.91	0.51
3:J:1249:ASN:OD1	3:J:1251:LYS:HG3	2.11	0.51
3:J:103:GLY:C	3:J:244:VAL:HG13	2.31	0.51
3:J:424:ASN:HD21	3:J:467:ALA:HB3	1.74	0.51
3:J:492:SER:N	3:J:499:ILE:HB	2.26	0.51
3:J:746:LEU:HD12	3:J:746:LEU:N	2.25	0.51
3:J:810:THR:HG23	3:J:894:VAL:H	1.76	0.51
5:L:240:ARG:HD3	5:L:244:THR:CG2	2.41	0.51
5:L:498:LEU:H	5:L:498:LEU:CD2	2.24	0.51
2:C:211:ARG:HH12	2:C:217:THR:CB	2.21	0.51
2:C:887:VAL:HA	2:C:914:LYS:O	2.11	0.51
3:D:1179:PRO:HD2	3:D:1184:ASP:HB3	1.92	0.51
3:D:201:LEU:HD11	3:D:220:ARG:NH1	2.26	0.51
3:D:277:ASN:O	3:D:280:LYS:N	2.43	0.51
3:D:609:TYR:O	3:D:613:GLY:HA2	2.10	0.51
3:D:710:ASP:CG	3:D:711:GLY:N	2.63	0.51
3:D:790:THR:OG1	3:D:928:THR:HG23	2.10	0.51
4:E:46:THR:OG1	4:E:46:THR:O	2.28	0.51
5:F:402:LEU:HA	5:F:405:ILE:HG23	1.93	0.51
1:G:152:TYR:CE1	2:I:824:GLN:HA	2.46	0.51
2:I:744:GLY:HA3	2:I:1013:GLN:OE1	2.11	0.51
2:I:1207:SER:C	2:I:1209:GLN:H	2.14	0.51
2:I:13:LYS:HD2	2:I:14:ASP:H	1.75	0.51
2:I:30:ILE:CD1	2:I:30:ILE:H	2.24	0.51
2:I:540:ARG:HH21	2:I:568:ASN:ND2	2.08	0.51
2:I:615:VAL:HG22	2:I:650:VAL:HG12	1.92	0.51
3:J:1262:ARG:HB2	3:J:1262:ARG:HH11	1.76	0.51
3:J:1343:GLU:O	3:J:1344:LEU:HB2	2.11	0.51
3:J:373:ALA:HA	3:J:376:LEU:HB2	1.92	0.51
3:J:502:PRO:HB2	3:J:507:VAL:HG12	1.93	0.51
4:K:3:ARG:NH2	4:K:4:VAL:HG12	2.25	0.51
5:L:466:ILE:HD12	5:L:487:MET:HE2	1.93	0.51
1:A:90:VAL:HG23	1:A:123:ILE:CD1	2.41	0.51
1:A:38:THR:HG22	1:A:39:LEU:CD2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:ASP:O	1:B:198:LEU:HD13	2.11	0.51
1:B:208:ASN:ND2	1:B:210:THR:HG23	2.25	0.51
1:A:218:ARG:HD3	1:B:232:VAL:O	2.11	0.51
2:C:1029:LEU:CD2	2:C:1030:GLU:N	2.71	0.51
2:C:1142:ARG:HH22	2:C:1165:SER:HA	1.72	0.51
2:C:1330:ILE:HG21	2:C:1337:ILE:HG21	1.93	0.51
2:C:478:ARG:NH1	2:C:482:GLY:CA	2.74	0.51
2:C:486:THR:HG23	2:C:487:LEU:H	1.75	0.51
2:C:498:ILE:O	2:C:502:VAL:HG12	2.10	0.51
2:C:894:GLN:NE2	3:D:77:ARG:HH11	2.08	0.51
3:D:1356:LEU:O	3:D:1366:HIS:CE1	2.64	0.51
3:D:140:TYR:O	3:D:141:PHE:HB2	2.11	0.51
3:D:205:LEU:N	3:D:217:LEU:HD21	2.26	0.51
2:C:560:PRO:CG	3:D:773:PHE:CE2	2.92	0.51
3:D:908:ILE:HG12	3:D:909:ILE:H	1.75	0.51
4:E:59:ILE:CG2	4:E:64:LEU:HD21	2.41	0.51
5:F:124:GLU:CA	5:F:127:ILE:HG12	2.41	0.51
5:F:465:ARG:HE	5:F:468:ARG:HH21	1.58	0.51
1:G:82:LEU:O	1:G:85:LEU:HB2	2.11	0.51
1:G:98:VAL:HG22	1:G:99:ILE:N	2.26	0.51
1:H:158:ARG:HB3	1:H:172:LEU:HD23	1.91	0.51
2:I:1116:HIS:CE1	3:J:641:ILE:CB	2.93	0.51
2:I:4:SER:HB3	2:I:7:GLU:CD	2.30	0.51
2:I:560:PRO:CG	2:I:660:VAL:HG23	2.40	0.51
2:I:932:GLN:O	2:I:933:VAL:HG23	2.11	0.51
2:I:93:SER:OG	2:I:94:ALA:N	2.44	0.51
3:J:107:LEU:HD12	3:J:240:THR:O	2.11	0.51
3:J:134:ASP:HA	3:J:137:ARG:HB3	1.93	0.51
4:K:44:ASP:CB	4:K:49:ILE:HG13	2.39	0.51
4:K:58:LEU:O	4:K:63:ILE:HG12	2.11	0.51
2:C:225:PHE:HZ	2:C:347:ILE:HB	1.72	0.50
2:C:263:VAL:CG1	2:C:267:ARG:HB3	2.41	0.50
2:C:310:ILE:CD1	2:C:325:LEU:HB3	2.41	0.50
2:C:518:ASN:OD1	2:C:518:ASN:N	2.25	0.50
3:D:111:THR:O	3:D:239:LEU:HB2	2.10	0.50
3:D:45:ASN:O	3:D:46:TYR:CB	2.58	0.50
3:D:872:LEU:CD2	3:D:877:VAL:HG21	2.39	0.50
5:F:520:GLY:HA2	5:F:523:ILE:HG13	1.92	0.50
1:G:124:VAL:HG11	1:G:210:THR:CG2	2.41	0.50
2:I:1131:MET:HA	2:I:1134:GLN:HB3	1.93	0.50
2:I:201:ARG:HG3	2:I:201:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:34:SER:OG	2:I:457:GLY:N	2.38	0.50
2:I:669:PRO:CB	2:I:702:THR:HG22	2.41	0.50
3:J:1169:THR:HA	3:J:1192:LYS:HD3	1.92	0.50
3:J:177:ASP:OD2	3:J:179:LYS:NZ	2.44	0.50
3:J:847:ASP:HB2	3:J:856:ILE:CD1	2.41	0.50
5:L:124:GLU:CG	5:L:128:ASN:HD21	2.22	0.50
5:L:303:ILE:O	5:L:307:THR:OG1	2.18	0.50
5:L:492:ASP:HA	5:L:495:ARG:HG3	1.93	0.50
5:L:503:GLU:N	5:L:504:PRO:HA	2.26	0.50
5:L:527:THR:HG23	5:L:528:LEU:N	2.26	0.50
1:A:100:LEU:HD23	1:A:115:ILE:CG2	2.36	0.50
1:A:98:VAL:HG23	1:A:99:ILE:N	2.25	0.50
2:C:1153:ALA:C	2:C:1155:VAL:HG23	2.31	0.50
2:C:1223:ARG:HB3	2:C:1223:ARG:NH1	2.26	0.50
2:C:198:ILE:HG22	2:C:199:ASP:OD1	2.11	0.50
2:C:592:ARG:O	2:C:652:TYR:HA	2.10	0.50
2:C:4:SER:HB3	2:C:7:GLU:OE1	2.11	0.50
2:C:820:GLU:HB2	2:C:1080:ASN:O	2.10	0.50
2:C:892:GLU:CG	2:C:892:GLU:O	2.54	0.50
5:F:470:MET:HE1	5:F:483:LEU:HA	1.94	0.50
1:G:14:VAL:HG13	1:G:15:ASP:N	2.25	0.50
1:H:112:ALA:HB3	1:H:126:PRO:O	2.11	0.50
2:I:303:ASP:N	2:I:308:GLU:O	2.39	0.50
2:I:411:ARG:NH2	2:I:427:ASP:OD2	2.41	0.50
2:I:569:ILE:C	2:I:571:LEU:H	2.12	0.50
2:I:685:MET:HA	2:I:688:GLN:NE2	2.15	0.50
2:I:698:PRO:HA	2:I:1231:TYR:CD1	2.46	0.50
2:I:896:THR:OG1	2:I:899:GLU:HG3	2.12	0.50
2:I:898:GLU:CD	2:I:898:GLU:H	2.02	0.50
2:I:1339:LEU:HD23	3:J:17:PHE:CE1	2.46	0.50
3:J:318:GLY:C	3:J:320:ASN:H	2.13	0.50
3:J:50:LYS:HB3	3:J:51:PRO:HD2	1.92	0.50
3:J:526:VAL:CG1	3:J:549:LYS:HB2	2.41	0.50
3:J:644:MET:HB2	3:J:764:ARG:HG3	1.92	0.50
5:L:213:ASP:HB2	5:L:216:LEU:CB	2.41	0.50
5:L:464:ASN:O	5:L:468:ARG:HG3	2.12	0.50
2:C:102:LEU:HD23	2:C:117:ILE:CG1	2.40	0.50
2:C:187:GLU:O	2:C:194:LEU:HD12	2.11	0.50
2:C:358:ASP:OD2	2:C:361:SER:HB2	2.11	0.50
2:C:507:GLY:O	2:C:508:SER:OG	2.29	0.50
2:C:63:SER:O	2:C:65:ASN:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:74:ARG:CB	2:C:74:ARG:HH11	2.24	0.50
2:C:5:TYR:O	2:C:8:LYS:N	2.44	0.50
3:D:1322:ALA:HA	3:D:1325:PHE:HE1	1.73	0.50
3:D:140:TYR:CD2	5:F:100:MET:HE1	2.47	0.50
3:D:478:LEU:CB	4:E:20:VAL:HG13	2.41	0.50
3:D:883:ARG:HE	3:D:898:CYS:HA	1.77	0.50
5:F:366:SER:HA	5:F:369:GLU:CD	2.32	0.50
5:F:608:ARG:NE	5:F:609:SER:HA	2.27	0.50
2:I:1047:LEU:HD23	2:I:1047:LEU:N	2.26	0.50
2:I:1115:THR:O	2:I:1228:GLY:HA3	2.11	0.50
2:I:1304:MET:HE3	2:I:1308:ILE:HD11	1.93	0.50
2:I:1312:ASN:HD21	2:I:1314:GLN:HE21	1.58	0.50
2:I:18:ARG:HH22	2:I:621:SER:N	2.08	0.50
2:I:32:LEU:HD23	2:I:130:MET:SD	2.51	0.50
2:I:76:GLY:O	2:I:95:PRO:HD2	2.10	0.50
2:I:74:ARG:HH12	2:I:97:ARG:HB2	1.73	0.50
3:J:120:LEU:HD13	3:J:121:PRO:N	2.26	0.50
3:J:1233:ILE:O	3:J:1237:VAL:HG12	2.11	0.50
3:J:599:LYS:HA	3:J:599:LYS:HE2	1.91	0.50
3:J:723:TYR:CD1	3:J:723:TYR:C	2.84	0.50
5:L:262:VAL:CG1	5:L:264:LYS:HD3	2.41	0.50
1:B:124:VAL:HG11	1:B:209:GLY:HA3	1.93	0.50
1:B:46:ILE:HG22	1:B:47:LEU:H	1.74	0.50
1:B:43:LEU:O	1:B:47:LEU:HD12	2.11	0.50
1:B:96:ASP:OD2	1:B:97:GLU:HG3	2.11	0.50
2:C:1144:PHE:HA	2:C:1147:ARG:HG3	1.94	0.50
2:C:1257:GLN:HB3	2:C:1258:PRO:CD	2.39	0.50
2:C:901:LEU:HB2	5:F:563:PHE:CD2	2.44	0.50
3:D:324:LEU:HD12	3:D:324:LEU:H	1.75	0.50
3:D:762:ASN:OD1	3:D:764:ARG:N	2.44	0.50
3:D:923:ILE:HG22	3:D:924:GLY:N	2.23	0.50
5:F:279:ARG:HA	5:F:282:THR:CB	2.40	0.50
5:F:487:MET:CB	5:F:489:MET:H	2.23	0.50
1:H:28:LEU:HD23	1:H:31:LEU:HD21	1.93	0.50
2:I:1141:LEU:O	2:I:1144:PHE:N	2.44	0.50
2:I:20:GLN:HB3	2:I:1156:ARG:HH22	1.75	0.50
2:I:284:LEU:HD12	2:I:285:ILE:H	1.77	0.50
2:I:386:GLU:CA	2:I:390:PHE:HD2	2.21	0.50
2:I:465:ARG:O	2:I:468:LEU:N	2.40	0.50
3:J:544:LEU:O	3:J:574:VAL:HB	2.11	0.50
3:J:611:ILE:CB	3:J:612:LEU:HD12	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:625:MET:O	3:J:627:THR:N	2.44	0.50
3:J:83:VAL:O	3:J:91:GLU:HA	2.11	0.50
5:L:227:GLN:HG3	5:L:252:LEU:CA	2.41	0.50
5:L:251:LYS:HA	5:L:254:GLU:HB2	1.94	0.50
5:L:505:ILE:HD12	5:L:506:SER:N	2.27	0.50
1:B:178:SER:C	1:B:180:VAL:H	2.15	0.50
2:C:745:GLU:OE2	2:C:1017:GLN:HB3	2.11	0.50
2:C:1259:LEU:HD21	5:F:522:PHE:HA	1.93	0.50
2:C:202:ARG:O	2:C:369:MET:HE2	2.12	0.50
2:C:303:ASP:CB	2:C:306:THR:CG2	2.86	0.50
2:C:150:HIS:CD2	2:C:452:ARG:HG2	2.47	0.50
2:C:516:ASP:HA	2:C:761:GLN:CD	2.30	0.50
2:C:705:GLU:HB2	2:C:794:LEU:H	1.75	0.50
2:C:903:ARG:HD2	2:C:908:GLU:H	1.77	0.50
3:D:504:GLN:HG3	3:D:505:ASP:N	2.26	0.50
3:D:530:PRO:C	3:D:533:ALA:H	2.14	0.50
3:D:549:LYS:HG2	3:D:571:ASP:OD1	2.11	0.50
3:D:615:LYS:CE	3:D:616:PRO:HD3	2.37	0.50
3:D:627:THR:CG2	3:D:628:GLY:N	2.75	0.50
3:D:869:CYS:O	3:D:873:GLU:N	2.43	0.50
3:D:809:VAL:HG11	3:D:909:ILE:HG21	1.93	0.50
5:F:105:MET:HG3	5:F:384:LEU:HD12	1.92	0.50
5:F:470:MET:HE3	5:F:482:GLU:OE1	2.11	0.50
1:G:29:GLU:OE1	1:G:200:LYS:HE2	2.11	0.50
1:G:38:THR:HG23	1:H:45:ARG:HB2	1.93	0.50
2:I:339:ASN:OD1	2:I:342:ASP:N	2.43	0.50
2:I:346:TYR:CZ	2:I:436:ARG:HG3	2.46	0.50
2:I:42:ASP:OD2	2:I:46:GLN:HB3	2.10	0.50
2:I:458:GLU:O	2:I:462:ASN:ND2	2.44	0.50
2:I:616:ILE:N	2:I:616:ILE:HD12	2.26	0.50
2:I:698:PRO:HG3	2:I:1231:TYR:CE2	2.46	0.50
3:J:233:LYS:N	3:J:236:TRP:CZ3	2.79	0.50
3:J:666:GLU:O	3:J:670:SER:OG	2.27	0.50
3:J:770:LEU:H	3:J:770:LEU:HD22	1.77	0.50
3:J:804:ALA:O	3:J:806:ASP:N	2.45	0.50
3:J:902:ASP:O	3:J:909:ILE:HD13	2.11	0.50
5:L:136:GLU:OE2	5:L:364:ARG:NH2	2.45	0.50
5:L:343:LYS:HA	5:L:346:GLN:OE1	2.11	0.50
2:C:1131:MET:HE2	2:C:1141:LEU:HD12	1.92	0.50
2:C:268:ARG:HH21	2:C:270:THR:HG21	1.77	0.50
2:C:301:TYR:CE2	2:C:333:ILE:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:339:ASN:N	2:C:343:HIS:O	2.45	0.50
3:D:615:LYS:CB	3:D:616:PRO:HD3	2.41	0.50
3:D:843:VAL:CG2	3:D:861:ASN:HB2	2.41	0.50
5:F:390:ILE:HG12	5:F:391:ALA:N	2.26	0.50
1:H:113:ALA:C	1:H:115:ILE:H	2.14	0.50
2:I:1128:ILE:CD1	2:I:1145:ILE:HD11	2.41	0.50
2:I:1247:SER:OG	2:I:1248:THR:N	2.44	0.50
2:I:414:ILE:HG13	2:I:415:GLU:HG2	1.93	0.50
2:I:656:SER:O	2:I:659:GLN:HG2	2.12	0.50
2:I:939:VAL:HG12	2:I:940:GLU:N	2.27	0.50
3:J:156:ARG:NH2	3:J:188:LEU:O	2.45	0.50
3:J:230:SER:HB2	3:J:1337:VAL:O	2.11	0.50
3:J:252:LEU:CD2	3:J:262:THR:CB	2.88	0.50
3:J:449:LEU:HD12	3:J:450:HIS:H	1.76	0.50
3:J:85:CYS:SG	3:J:87:LYS:N	2.85	0.50
3:J:75:TYR:OH	3:J:86:GLU:OE1	2.20	0.50
5:L:230:VAL:HG22	5:L:248:GLU:OE1	2.12	0.50
5:L:500:ILE:HG22	5:L:500:ILE:O	2.12	0.50
5:L:96:ASP:OD1	5:L:98:VAL:HG13	2.10	0.50
1:A:112:ALA:N	1:A:128:HIS:O	2.41	0.50
1:B:124:VAL:HG12	1:B:125:LYS:HG3	1.93	0.50
1:B:300:LEU:HD13	1:B:300:LEU:O	2.12	0.50
1:B:77:ASP:N	1:B:80:GLU:HB3	2.26	0.50
2:C:1005:GLU:HG2	2:C:1006:GLU:CD	2.32	0.50
2:C:1156:ARG:CB	2:C:1156:ARG:HH11	2.24	0.50
2:C:1325:VAL:O	2:C:1327:LEU:N	2.45	0.50
2:C:176:ILE:HG22	2:C:176:ILE:O	2.11	0.50
2:C:215:TYR:HE2	2:C:422:LYS:CD	2.25	0.50
2:C:61:SER:HB3	2:C:479:LEU:HB3	1.93	0.50
2:C:760:ASN:C	2:C:762:ASN:H	2.15	0.50
2:C:932:GLN:O	2:C:933:VAL:HG23	2.11	0.50
3:D:1172:LYS:HA	3:D:1190:ILE:O	2.12	0.50
2:C:1320:PRO:HB3	3:D:345:LYS:NZ	2.27	0.50
3:D:364:HIS:HB2	3:D:485:MET:CE	2.41	0.50
3:D:824:PRO:HB3	3:D:835:LEU:N	2.27	0.50
4:E:32:VAL:HG12	4:E:32:VAL:O	2.11	0.50
5:F:120:ALA:O	5:F:123:ILE:HB	2.12	0.50
5:F:281:ARG:HA	5:F:284:GLU:HB2	1.93	0.50
5:F:564:GLY:O	5:F:567:MET:N	2.40	0.50
1:G:39:LEU:O	1:G:43:LEU:HB2	2.12	0.50
1:G:81:ILE:HA	1:G:84:ASN:ND2	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:98:VAL:HG22	1:G:99:ILE:H	1.76	0.50
2:I:1109:ILE:O	2:I:1112:ILE:HB	2.11	0.50
2:I:388:LEU:CB	2:I:389:PHE:CD2	2.94	0.50
2:I:548:ARG:NH2	2:I:567:PRO:O	2.45	0.50
2:I:648:ASP:O	2:I:649:GLN:HG2	2.12	0.50
2:I:933:VAL:CG2	2:I:1050:VAL:CG1	2.88	0.50
2:I:994:ARG:HG2	2:I:997:TRP:CZ2	2.47	0.50
3:J:1171:GLY:CA	3:J:1193:TRP:HZ3	2.24	0.50
3:J:1167:LYS:HB2	3:J:1174:ARG:HD3	1.94	0.50
3:J:615:LYS:HG2	4:K:5:THR:OG1	2.11	0.50
4:K:62:GLN:O	4:K:66:VAL:HG23	2.12	0.50
5:L:345:GLN:HA	5:L:348:GLU:OE1	2.12	0.50
5:L:509:THR:CG2	5:L:510:PRO:HD2	2.42	0.50
1:A:172:LEU:HD12	1:A:172:LEU:H	1.77	0.50
2:C:509:SER:C	2:C:511:LEU:H	2.15	0.50
2:C:607:SER:CA	2:C:610:GLU:HG3	2.42	0.50
2:C:621:SER:CB	2:C:634:VAL:HG21	2.39	0.50
2:C:975:ILE:O	2:C:978:VAL:N	2.44	0.50
3:D:18:ASP:CB	3:D:1373:ARG:HH21	2.24	0.50
3:D:411:ILE:O	3:D:414:GLU:N	2.37	0.50
3:D:449:LEU:HD12	3:D:450:HIS:N	2.27	0.50
3:D:518:VAL:CG1	3:D:707:ILE:HD13	2.40	0.50
3:D:739:GLN:O	3:D:763:PHE:HD2	1.94	0.50
3:D:818:GLU:O	3:D:887:SER:HB2	2.12	0.50
5:F:127:ILE:HG22	5:F:131:GLN:HG3	1.94	0.50
2:I:1124:ILE:HD13	2:I:1202:GLY:CA	2.41	0.50
2:I:1240:ASP:N	2:I:1240:ASP:OD1	2.31	0.50
2:I:1325:VAL:HG12	2:I:1326:LEU:N	2.27	0.50
2:I:296:VAL:HG13	2:I:315:MET:O	2.11	0.50
2:I:35:PHE:O	2:I:38:PHE:HB3	2.12	0.50
2:I:486:THR:HG23	2:I:487:LEU:N	2.27	0.50
2:I:510:GLN:OE1	2:I:534:GLY:HA2	2.10	0.50
2:I:512:SER:C	2:I:513:GLN:HG2	2.33	0.50
3:J:1145:PHE:O	3:J:1309:ILE:HG12	2.12	0.50
3:J:1359:ALA:O	3:J:1363:TYR:N	2.45	0.50
2:I:806:PRO:HB3	3:J:505:ASP:OD1	2.11	0.50
3:J:785:ASP:O	3:J:788:LEU:HD23	2.11	0.50
3:D:1371:ARG:HD2	3:J:856:ILE:CD1	2.41	0.50
5:L:507:MET:C	5:L:509:THR:H	2.15	0.50
1:A:41:ASN:O	1:A:43:LEU:N	2.45	0.50
1:B:108:GLY:O	1:B:133:LEU:HD22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:VAL:O	1:B:315:GLY:N	2.45	0.50
1:B:287:VAL:HB	1:B:288:GLU:OE2	2.12	0.50
2:C:148:GLN:HG2	2:C:149:LEU:H	1.76	0.50
2:C:287:VAL:HB	2:C:288:PRO:HD2	1.94	0.50
2:C:486:THR:CG2	2:C:487:LEU:N	2.72	0.50
2:C:959:ASP:C	2:C:963:GLU:HG2	2.31	0.50
3:D:1146:GLU:O	3:D:1147:ALA:HB3	2.11	0.50
3:D:1282:TYR:HB3	3:D:1286:LYS:HZ1	1.74	0.50
3:D:326:SER:O	3:D:327:LEU:C	2.51	0.50
2:C:1314:GLN:HG2	4:E:28:ARG:CZ	2.42	0.50
5:F:279:ARG:O	5:F:283:GLN:HG2	2.12	0.50
3:D:253:VAL:HG21	5:F:523:ILE:CD1	2.41	0.50
1:G:97:GLU:O	1:G:97:GLU:HG2	2.11	0.50
2:I:1325:VAL:O	2:I:1328:LYS:N	2.44	0.50
2:I:342:ASP:O	2:I:437:ASN:HB3	2.12	0.50
2:I:399:ALA:O	2:I:403:MET:N	2.42	0.50
2:I:452:ARG:CG	2:I:453:ILE:N	2.75	0.50
2:I:53:PHE:CD2	2:I:70:TYR:CE1	3.00	0.50
2:I:572:ILE:O	2:I:573:ASN:CB	2.60	0.50
3:J:1165:PHE:HE1	3:J:1200:GLU:HB2	1.76	0.50
3:J:1184:ASP:N	3:J:1185:PRO:CD	2.74	0.50
3:J:197:GLU:O	3:J:201:LEU:HG	2.12	0.50
3:J:217:LEU:C	3:J:217:LEU:HD12	2.32	0.50
3:J:221:ILE:HA	3:J:224:LEU:CB	2.38	0.50
3:J:425:ARG:NH1	3:J:459:ALA:HA	2.26	0.50
3:J:56:LEU:CD2	3:J:269:TYR:HB3	2.42	0.50
3:J:665:GLN:O	3:J:669:GLN:N	2.34	0.50
5:L:283:GLN:O	5:L:287:ILE:HG13	2.11	0.50
5:L:387:VAL:HG13	5:L:435:ILE:CG2	2.40	0.50
5:L:448:ARG:CD	5:L:452:ILE:HD12	2.40	0.50
5:L:564:GLY:O	5:L:567:MET:N	2.41	0.50
1:A:130:ILE:N	1:A:130:ILE:HD12	2.27	0.49
1:A:73:GLY:C	1:A:134:THR:HG22	2.32	0.49
1:A:166:ARG:O	1:A:168:ILE:N	2.45	0.49
1:B:282:VAL:HG21	1:B:316:MET:HE1	1.93	0.49
1:B:82:LEU:C	1:B:85:LEU:HG	2.32	0.49
2:C:1008:GLN:O	2:C:1012:GLU:HB2	2.12	0.49
2:C:1170:MET:CE	2:C:1170:MET:HA	2.41	0.49
2:C:169:LYS:HE2	2:C:190:PRO:CA	2.42	0.49
2:C:5:TYR:HD2	2:C:781:ASP:OD1	1.95	0.49
3:D:1252:HIS:HA	3:D:1255:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1073:LYS:HB2	3:D:462:ASP:HB2	1.93	0.49
3:D:629:PHE:O	3:D:632:ALA:HB3	2.12	0.49
3:D:64:PRO:HG2	3:D:93:THR:H	1.77	0.49
5:F:343:LYS:HA	5:F:346:GLN:HB3	1.94	0.49
1:H:79:LEU:O	1:H:83:LEU:HD13	2.11	0.49
2:I:1113:LEU:HD11	3:J:641:ILE:HG13	1.93	0.49
2:I:1334:GLY:O	3:J:25:ALA:CB	2.60	0.49
2:I:421:SER:O	2:I:424:ASP:HB2	2.12	0.49
2:I:614:TYR:CD2	2:I:614:TYR:N	2.80	0.49
2:I:634:VAL:O	2:I:645:PHE:HB2	2.11	0.49
3:J:820:ILE:HG22	3:J:1227:HIS:ND1	2.27	0.49
3:J:164:GLN:O	3:J:167:ASP:HB3	2.11	0.49
3:J:269:TYR:O	3:J:272:VAL:N	2.43	0.49
3:J:481:ARG:CA	3:J:485:MET:HB2	2.34	0.49
3:J:692:ARG:O	3:J:696:ALA:N	2.44	0.49
1:B:173:VAL:HG12	1:B:174:ASP:O	2.12	0.49
2:C:420:LEU:CD2	2:C:420:LEU:N	2.74	0.49
2:C:529:ARG:HG2	2:C:530:ILE:N	2.22	0.49
2:C:678:ARG:HH21	2:C:1106:ARG:HG2	1.77	0.49
3:D:161:THR:HG23	3:D:164:GLN:H	1.78	0.49
3:D:205:LEU:HD21	3:D:218:THR:HB	1.94	0.49
3:D:507:VAL:HG11	3:D:598:LYS:CB	2.39	0.49
3:D:534:GLU:HA	3:D:578:ILE:HD13	1.94	0.49
2:C:1282:GLY:HA3	4:E:17:PHE:CZ	2.48	0.49
5:F:402:LEU:HA	5:F:405:ILE:CG2	2.42	0.49
2:I:1086:PRO:HA	2:I:1213:TYR:O	2.12	0.49
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.93	0.49
2:I:18:ARG:NH2	2:I:620:ASN:HA	2.26	0.49
2:I:615:VAL:HG23	2:I:636:CYS:HB3	1.94	0.49
3:J:1219:ASP:O	3:J:1222:ARG:N	2.45	0.49
3:J:1319:PHE:HD1	3:J:1320:ILE:N	2.10	0.49
3:J:1333:THR:O	3:J:1337:VAL:HG13	2.12	0.49
3:J:287:ALA:CB	3:J:288:PRO:HD2	2.38	0.49
3:J:320:ASN:CG	3:J:322:ARG:HB3	2.32	0.49
3:J:339:ARG:CB	3:J:340:GLN:CA	2.67	0.49
3:J:390:LEU:HD12	3:J:390:LEU:N	2.27	0.49
3:J:42:GLU:N	3:J:42:GLU:OE1	2.45	0.49
3:J:355:ILE:HG21	3:J:466:MET:HB2	1.93	0.49
3:J:528:THR:O	3:J:551:ARG:HB3	2.12	0.49
3:J:520:ALA:HB3	3:J:546:ALA:CA	2.42	0.49
3:J:632:ALA:O	3:J:635:SER:OG	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:759:ILE:HD13	3:J:771:GLN:HG2	1.93	0.49
3:J:800:LEU:O	3:J:803:VAL:HG12	2.11	0.49
3:J:814:CYS:HB3	3:J:890:THR:OG1	2.12	0.49
3:J:842:ARG:CD	3:J:882:VAL:HG11	2.34	0.49
3:J:901:ARG:CA	3:J:908:ILE:HA	2.40	0.49
3:J:430:HIS:ND1	3:J:925:GLU:HG3	2.27	0.49
4:K:6:VAL:HG23	4:K:10:VAL:CG2	2.42	0.49
1:A:107:ILE:HA	1:A:133:LEU:HB3	1.94	0.49
1:B:9:LEU:CD2	1:B:10:LYS:H	2.25	0.49
1:B:82:LEU:HA	1:B:85:LEU:HD11	1.94	0.49
2:C:1176:LEU:HD13	2:C:1180:MET:HG3	1.95	0.49
2:C:606:LEU:N	2:C:606:LEU:HD12	2.27	0.49
2:C:646:SER:HB3	2:C:649:GLN:CG	2.19	0.49
2:C:928:VAL:HG12	2:C:929:ILE:N	2.26	0.49
3:D:56:LEU:CD2	3:D:269:TYR:HB3	2.43	0.49
3:D:722:ILE:O	3:D:725:MET:HB2	2.11	0.49
5:F:448:ARG:HH11	5:F:448:ARG:HG2	1.77	0.49
1:H:55:ALA:HB1	1:H:176:CYS:SG	2.52	0.49
1:H:81:ILE:O	1:H:84:ASN:N	2.40	0.49
2:I:1117:LEU:HD21	2:I:1182:ILE:HD12	1.93	0.49
2:I:296:VAL:CG1	2:I:336:LEU:HD12	2.42	0.49
2:I:496:LYS:HD2	2:I:497:PRO:HG3	1.93	0.49
2:I:615:VAL:CG2	2:I:650:VAL:HG12	2.41	0.49
2:I:706:ARG:HH12	2:I:782:VAL:HG21	1.77	0.49
2:I:767:GLN:HA	2:I:785:ASP:O	2.12	0.49
3:J:1172:LYS:NZ	3:J:1191:PRO:HG3	2.28	0.49
3:J:147:ILE:O	3:J:177:ASP:HB3	2.13	0.49
3:J:198:CYS:O	3:J:201:LEU:N	2.45	0.49
5:L:343:LYS:CA	5:L:346:GLN:HB3	2.42	0.49
5:L:362:ASN:O	5:L:365:MET:HB3	2.12	0.49
5:L:565:ILE:O	5:L:566:ASP:HB2	2.13	0.49
5:L:573:LEU:H	5:L:573:LEU:CD2	2.24	0.49
1:A:12:ARG:H	1:A:30:PRO:CG	2.25	0.49
1:A:179:PRO:HB3	1:A:208:ASN:CG	2.32	0.49
1:B:265:ARG:CG	1:B:266:SER:N	2.75	0.49
1:B:289:LEU:HD13	1:B:300:LEU:HD21	1.94	0.49
2:C:1291:LEU:O	2:C:1291:LEU:HD12	2.13	0.49
2:C:1334:GLY:O	3:D:25:ALA:CB	2.60	0.49
3:D:279:LEU:HD12	3:D:295:GLU:HG2	1.95	0.49
2:C:1309:VAL:HG12	3:D:379:PRO:HB3	1.94	0.49
3:D:490:ILE:HG12	3:D:490:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:848:VAL:O	3:D:857:LEU:N	2.36	0.49
5:F:372:ALA:O	5:F:375:ALA:HB3	2.12	0.49
5:F:402:LEU:CA	5:F:405:ILE:HG23	2.43	0.49
1:G:48:LEU:O	1:G:180:VAL:HG21	2.12	0.49
1:H:47:LEU:HD22	1:H:180:VAL:CG1	2.42	0.49
1:H:9:LEU:CB	1:H:32:GLU:CG	2.90	0.49
2:I:1223:ARG:NH1	2:I:1223:ARG:CB	2.72	0.49
2:I:160:ASP:H	2:I:161:LYS:NZ	2.11	0.49
2:I:728:ASP:HB3	2:I:731:ARG:H	1.77	0.49
2:I:763:THR:OG1	2:I:764:CYS:N	2.41	0.49
3:J:1146:GLU:OE2	3:J:1309:ILE:HG13	2.12	0.49
3:J:1226:VAL:C	3:J:1228:ALA:H	2.14	0.49
3:J:335:GLN:O	3:J:1328:THR:OG1	2.31	0.49
3:J:509:GLY:HA3	3:J:628:GLY:O	2.12	0.49
2:I:1105:SER:HB2	3:J:731:ARG:HG2	1.94	0.49
3:J:794:GLY:O	3:J:798:ARG:HB2	2.12	0.49
3:J:848:VAL:O	3:J:857:LEU:N	2.43	0.49
4:K:60:ASN:CG	4:K:62:GLN:HB3	2.32	0.49
5:L:137:TYR:CZ	5:L:139:GLU:HB2	2.48	0.49
5:L:343:LYS:O	5:L:346:GLN:HB3	2.11	0.49
1:A:102:LEU:O	1:A:141:SER:HA	2.12	0.49
2:C:1175:ASN:C	2:C:1176:LEU:HD23	2.33	0.49
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.47	0.49
2:C:1285:TYR:C	2:C:1287:LEU:N	2.63	0.49
2:C:519:ASN:OD1	2:C:519:ASN:C	2.50	0.49
2:C:670:PHE:CE2	2:C:1113:LEU:C	2.86	0.49
2:C:756:TYR:CE1	2:C:766:ASN:CG	2.85	0.49
3:D:1138:LEU:O	3:D:1141:VAL:HB	2.11	0.49
3:D:1141:VAL:O	3:D:1144:LEU:N	2.43	0.49
3:D:1249:ASN:OD1	3:D:1250:ASP:N	2.45	0.49
3:D:268:LEU:HD21	3:D:305:ALA:C	2.32	0.49
3:D:79:LYS:O	3:D:81:ARG:N	2.46	0.49
4:E:3:ARG:CZ	4:E:3:ARG:HA	2.42	0.49
5:F:428:SER:O	5:F:430:TYR:N	2.46	0.49
5:F:475:GLY:C	5:F:476:ARG:HD2	2.32	0.49
1:H:64:VAL:C	1:H:66:HIS:H	2.16	0.49
2:I:1170:MET:CE	2:I:1170:MET:HA	2.38	0.49
2:I:247:ARG:NH2	2:I:274:ILE:HD12	2.28	0.49
2:I:614:TYR:CD1	2:I:652:TYR:CE1	3.00	0.49
2:I:839:VAL:O	2:I:886:LYS:HE2	2.12	0.49
2:I:933:VAL:C	2:I:934:PHE:HD2	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:260:PHE:HB3	5:L:504:PRO:HG2	1.93	0.49
3:J:438:GLU:OE2	3:J:481:ARG:NH1	2.43	0.49
3:J:592:VAL:HG23	3:J:592:VAL:O	2.11	0.49
3:J:819:GLY:CA	3:J:882:VAL:O	2.60	0.49
4:K:3:ARG:HH21	4:K:4:VAL:HG12	1.76	0.49
5:L:286:LEU:O	5:L:290:LEU:HG	2.13	0.49
5:L:117:ILE:HG23	5:L:421:TYR:CG	2.48	0.49
5:L:573:LEU:N	5:L:573:LEU:HD22	2.27	0.49
1:A:155:ALA:HB2	1:A:174:ASP:OD1	2.13	0.49
1:A:231:PHE:CD2	1:B:43:LEU:CD2	2.96	0.49
1:A:31:LEU:CD1	1:A:201:LEU:HB2	2.43	0.49
1:A:90:VAL:HG22	1:A:91:ARG:H	1.77	0.49
2:C:1143:GLU:O	2:C:1147:ARG:HG2	2.13	0.49
2:C:484:LEU:O	2:C:486:THR:N	2.39	0.49
2:C:800:MET:HE2	2:C:1096:ILE:HD11	1.95	0.49
2:C:817:LEU:CD2	2:C:1085:MET:HE1	2.42	0.49
3:D:1158:GLU:HB3	3:D:1186:TYR:CE1	2.48	0.49
3:D:262:THR:OG1	3:D:266:ASN:ND2	2.46	0.49
3:D:46:TYR:C	3:D:46:TYR:CD1	2.85	0.49
3:D:678:ARG:O	3:D:682:VAL:HG23	2.12	0.49
3:D:72:CYS:SG	3:D:73:GLY:N	2.85	0.49
3:D:755:ILE:CD1	3:D:774:ILE:HG21	2.43	0.49
5:F:234:THR:O	5:F:245:ALA:HB1	2.13	0.49
3:D:49:PHE:HE1	5:F:500:ILE:HD11	1.78	0.49
1:G:171:LEU:N	1:G:171:LEU:HD13	2.28	0.49
1:H:108:GLY:O	1:H:133:LEU:HB2	2.13	0.49
2:I:700:VAL:HG21	2:I:1114:GLU:CG	2.42	0.49
2:I:1161:LEU:HD12	2:I:1163:THR:OG1	2.12	0.49
2:I:1176:LEU:O	2:I:1179:GLY:N	2.33	0.49
2:I:1210:ILE:HG22	2:I:1211:ARG:O	2.12	0.49
3:J:1263:LYS:CE	3:J:1279:GLN:HE22	2.24	0.49
3:J:130:MET:CE	3:J:135:ILE:HG12	2.43	0.49
2:I:1075:VAL:HG22	3:J:463:GLY:HA2	1.92	0.49
3:J:641:ILE:HA	3:J:644:MET:HE2	1.93	0.49
3:J:718:SER:OG	3:J:719:PHE:N	2.46	0.49
2:I:560:PRO:O	3:J:776:THR:HG21	2.12	0.49
2:I:1279:GLU:O	3:J:914:ALA:HB3	2.11	0.49
4:K:59:ILE:HG23	4:K:64:LEU:HD21	1.94	0.49
1:B:104:LYS:HE2	1:B:110:VAL:HG22	1.94	0.49
1:B:99:ILE:HD12	1:B:145:LYS:HB2	1.94	0.49
1:B:268:ASN:HA	1:B:271:LYS:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1066:MET:HG2	2:C:1233:LEU:O	2.13	0.49
2:C:1134:GLN:C	2:C:1135:GLN:HG2	2.33	0.49
2:C:201:ARG:HB3	2:C:369:MET:HE2	1.95	0.49
2:C:35:PHE:O	2:C:37:LYS:N	2.45	0.49
2:C:521:LEU:HD12	2:C:687:ARG:HB3	1.94	0.49
2:C:903:ARG:HD2	2:C:908:GLU:O	2.12	0.49
3:D:221:ILE:HG23	3:D:222:LYS:N	2.27	0.49
3:D:337:ARG:NH2	3:D:1330:ARG:HH12	2.11	0.49
3:D:785:ASP:O	3:D:788:LEU:N	2.45	0.49
4:E:25:ARG:NH1	4:E:64:LEU:HB2	2.27	0.49
5:F:130:VAL:HG22	5:F:365:MET:CA	2.36	0.49
5:F:324:LYS:HB3	5:F:325:PRO:HD2	1.94	0.49
1:G:110:VAL:HG13	1:G:114:ASP:OD2	2.12	0.49
1:G:23:HIS:HB2	1:G:206:GLU:HA	1.95	0.49
1:H:195:ARG:HB3	1:H:198:LEU:HD21	1.94	0.49
1:H:76:GLU:HB2	1:H:81:ILE:HG12	1.95	0.49
2:I:806:PRO:HD3	2:I:1100:PRO:CD	2.43	0.49
2:I:1283:ALA:O	2:I:1285:TYR:N	2.46	0.49
2:I:130:MET:CG	2:I:134:GLY:HA2	2.43	0.49
2:I:558:VAL:CG1	2:I:559:CYS:N	2.75	0.49
2:I:702:THR:O	2:I:1185:PRO:HA	2.12	0.49
2:I:882:ILE:CD1	2:I:919:ARG:HH12	2.25	0.49
2:I:893:THR:O	2:I:894:GLN:HB3	2.12	0.49
2:I:901:LEU:HD12	2:I:901:LEU:O	2.13	0.49
2:I:921:PRO:HB2	2:I:924:VAL:CG2	2.39	0.49
3:J:1145:PHE:HB3	3:J:1309:ILE:CD1	2.42	0.49
3:J:185:ILE:O	3:J:189:LEU:HG	2.13	0.49
3:J:265:LEU:CD1	3:J:327:LEU:HD21	2.37	0.49
3:J:611:ILE:HB	3:J:612:LEU:CD1	2.41	0.49
4:K:10:VAL:O	4:K:14:GLY:HA2	2.12	0.49
1:B:289:LEU:O	1:B:295:LEU:HD13	2.13	0.49
1:B:59:VAL:HG11	1:B:144:ILE:HD12	1.95	0.49
2:C:102:LEU:HD12	2:C:103:VAL:N	2.27	0.49
2:C:1113:LEU:CD1	3:D:641:ILE:CG1	2.91	0.49
2:C:1146:GLN:O	2:C:1150:ASP:OD2	2.30	0.49
2:C:1336:ASN:HD22	3:D:29:MET:HE1	1.77	0.49
2:C:149:LEU:HD12	2:C:452:ARG:O	2.13	0.49
1:A:134:THR:HG23	2:C:726:TYR:HE1	1.76	0.49
2:C:881:ASP:OD1	2:C:881:ASP:N	2.45	0.49
2:C:918:LEU:C	2:C:918:LEU:CD1	2.81	0.49
3:D:1164:SER:O	3:D:1175:LEU:HD12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1176:VAL:HG22	3:D:1187:GLU:CB	2.41	0.49
3:D:544:LEU:HD13	3:D:575:GLY:HA2	1.94	0.49
3:D:849:LEU:H	3:D:849:LEU:CD2	2.15	0.49
1:G:112:ALA:O	1:G:115:ILE:HG13	2.13	0.49
2:I:1142:ARG:HH12	2:I:1169:VAL:HG21	1.71	0.49
2:I:1170:MET:HE3	2:I:1170:MET:HA	1.95	0.49
2:I:176:ILE:HB	2:I:184:LEU:CB	2.28	0.49
2:I:346:TYR:CE2	2:I:436:ARG:HG3	2.48	0.49
2:I:481:LEU:N	2:I:481:LEU:HD13	2.28	0.49
2:I:680:LEU:HD23	2:I:681:MET:N	2.27	0.49
2:I:74:ARG:NH1	2:I:97:ARG:HG3	2.28	0.49
3:J:146:VAL:HG11	3:J:149:GLY:HA3	1.93	0.49
3:J:223:LEU:O	3:J:226:ALA:HB3	2.13	0.49
3:J:492:SER:HG	3:J:494:ALA:HB3	1.76	0.49
3:J:502:PRO:CA	3:J:506:VAL:HG11	2.42	0.49
3:J:754:ILE:HG13	3:J:755:ILE:N	2.28	0.49
5:L:494:ILE:HG22	5:L:498:LEU:CD2	2.43	0.49
1:B:6:THR:OG1	1:B:7:GLU:N	2.46	0.49
2:C:14:ASP:N	2:C:1157:GLN:OE1	2.45	0.49
2:C:732:ILE:HD13	2:C:783:LEU:HD12	1.94	0.49
2:C:835:GLU:C	2:C:836:LEU:HD12	2.32	0.49
2:C:871:VAL:CG2	2:C:872:TYR:N	2.75	0.49
3:D:201:LEU:HD11	3:D:220:ARG:HH11	1.76	0.49
3:D:313:GLY:C	3:D:314:ARG:HG2	2.33	0.49
3:D:869:CYS:O	3:D:872:LEU:N	2.46	0.49
2:I:700:VAL:HG13	2:I:1117:LEU:HD22	1.95	0.49
2:I:478:ARG:C	2:I:480:SER:H	2.16	0.49
2:I:699:LEU:HD11	2:I:1179:GLY:HA3	1.94	0.49
2:I:723:VAL:HG13	2:I:775:GLU:C	2.33	0.49
2:I:972:PHE:HD1	2:I:994:ARG:HH21	1.60	0.49
3:J:1170:LYS:O	3:J:1170:LYS:HE2	2.13	0.49
3:J:1289:ASN:ND2	3:J:1290:ARG:HH12	2.11	0.49
3:J:354:VAL:HA	3:J:465:GLN:HG2	1.95	0.49
3:J:803:VAL:HG11	3:J:1309:ILE:HG22	1.93	0.49
4:K:7:GLN:NE2	4:K:7:GLN:O	2.43	0.49
5:L:355:ILE:CA	5:L:358:VAL:HG22	2.42	0.49
5:L:494:ILE:O	5:L:497:VAL:HB	2.12	0.49
1:B:262:LEU:HD13	1:B:263:THR:O	2.13	0.49
2:C:1275:VAL:O	2:C:1278:LEU:N	2.44	0.49
2:C:1251:TYR:CE1	2:C:1301:ARG:CZ	2.95	0.49
2:C:563:THR:OG1	2:C:564:PRO:HD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:537:TYR:C	3:D:539:SER:N	2.66	0.49
3:D:58:CYS:SG	3:D:59:ALA:N	2.86	0.49
5:F:316:PHE:CE1	5:F:337:VAL:HG21	2.48	0.49
5:F:311:THR:HG21	5:F:348:GLU:OE2	2.12	0.49
5:F:138:PRO:CD	5:F:353:LEU:HD11	2.43	0.49
1:G:124:VAL:CG1	1:G:125:LYS:HG2	2.42	0.49
2:I:1088:ASP:OD1	2:I:1090:ASN:N	2.46	0.49
2:I:599:VAL:CG2	2:I:629:PHE:CE1	2.95	0.49
3:J:1146:GLU:O	3:J:1147:ALA:HB3	2.13	0.49
3:J:220:ARG:HG2	3:J:224:LEU:HD12	1.94	0.49
3:J:22:ILE:HG12	3:J:23:ALA:H	1.78	0.49
3:J:362:ARG:H	3:J:365:GLN:NE2	2.10	0.49
3:J:403:ARG:NH1	3:J:403:ARG:CG	2.74	0.49
3:J:511:TYR:HD1	3:J:511:TYR:C	2.17	0.49
3:J:813:ASP:HB2	3:J:897:HIS:ND1	2.28	0.49
5:L:414:LYS:NZ	5:L:434:TRP:HZ3	2.11	0.49
5:L:550:GLY:C	5:L:551:LEU:HD23	2.33	0.49
1:B:211:ILE:O	1:B:211:ILE:HG23	2.13	0.48
1:B:296:GLY:O	1:B:300:LEU:HB2	2.13	0.48
2:C:221:LEU:HD23	2:C:351:LEU:CD1	2.43	0.48
2:C:344:GLY:CA	2:C:346:TYR:CE2	2.89	0.48
2:C:882:ILE:HD12	2:C:882:ILE:N	2.11	0.48
3:D:1161:GLY:O	3:D:1177:ILE:HG22	2.13	0.48
3:D:290:ILE:HG23	5:F:104:GLU:OE2	2.13	0.48
3:D:778:GLY:O	3:D:781:LYS:N	2.46	0.48
4:E:8:ASP:O	4:E:11:GLU:HB2	2.13	0.48
5:F:137:TYR:O	5:F:141:ILE:HD13	2.13	0.48
5:F:142:THR:O	5:F:146:GLU:HG3	2.13	0.48
5:F:219:GLU:O	5:F:222:ALA:HB3	2.13	0.48
5:F:524:GLU:HG3	5:F:525:ASP:O	2.13	0.48
5:F:563:PHE:C	5:F:565:ILE:H	2.16	0.48
5:F:600:HIS:N	5:F:601:PRO:HD3	2.28	0.48
1:G:224:LEU:HD22	1:H:228:LEU:CD1	2.43	0.48
1:G:61:ILE:HG22	1:G:62:ASP:N	2.27	0.48
2:I:953:LEU:CA	2:I:1036:ILE:HD13	2.43	0.48
2:I:1222:GLU:OE1	3:J:635:SER:HA	2.13	0.48
2:I:550:VAL:HA	2:I:554:HIS:CD2	2.48	0.48
2:I:57:PHE:CD1	2:I:70:TYR:CB	2.96	0.48
2:I:756:TYR:HD1	2:I:756:TYR:H	1.57	0.48
2:I:770:CYS:SG	2:I:784:ALA:HA	2.53	0.48
2:I:800:MET:HG3	2:I:1096:ILE:CD1	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:816:ILE:HG22	2:I:817:LEU:N	2.28	0.48
3:J:490:ILE:H	3:J:904:ALA:HB1	1.78	0.48
3:J:797:THR:O	3:J:800:LEU:N	2.46	0.48
4:K:78:ALA:O	4:K:80:LEU:HD13	2.13	0.48
5:L:379:MET:HG3	5:L:380:VAL:N	2.28	0.48
1:A:36:GLY:HA3	1:A:187:VAL:CG1	2.42	0.48
1:B:197:ASP:N	1:B:197:ASP:OD1	2.43	0.48
1:B:263:THR:HG22	1:B:302:GLU:CD	2.33	0.48
1:B:75:GLN:HE22	1:B:132:HIS:HB2	1.79	0.48
2:C:1136:GLN:O	2:C:1140:LYS:CG	2.54	0.48
2:C:18:ARG:HG2	2:C:1188:ASP:CG	2.34	0.48
2:C:367:TYR:HD1	2:C:381:ALA:CA	2.22	0.48
2:C:648:ASP:O	2:C:649:GLN:HG2	2.14	0.48
2:C:800:MET:CE	2:C:822:VAL:HG21	2.43	0.48
3:D:1340:LYS:CG	3:D:1341:ARG:H	2.26	0.48
3:D:421:VAL:HG23	3:D:422:LEU:N	2.27	0.48
3:D:518:VAL:HG13	3:D:519:ASN:N	2.28	0.48
3:D:72:CYS:HB3	3:D:88:CYS:SG	2.53	0.48
5:F:108:VAL:HA	5:F:385:ARG:NH2	2.27	0.48
1:H:115:ILE:CG2	1:H:116:THR:H	2.23	0.48
2:I:1070:HIS:HD2	2:I:1111:GLN:HB3	1.78	0.48
2:I:1126:ASP:HA	2:I:1129:ASN:HB3	1.94	0.48
2:I:1130:ALA:O	2:I:1133:LYS:N	2.46	0.48
2:I:92:TYR:CD2	2:I:129:LEU:HB2	2.47	0.48
2:I:310:ILE:CG2	2:I:325:LEU:HD23	2.42	0.48
2:I:794:LEU:HG	2:I:796:LEU:CD1	2.42	0.48
2:I:852:ALA:HB2	2:I:869:GLY:HA2	1.94	0.48
2:I:870:ILE:HG22	2:I:944:ARG:HD3	1.94	0.48
2:I:934:PHE:CD2	2:I:934:PHE:N	2.80	0.48
2:I:74:ARG:NH1	2:I:97:ARG:CB	2.70	0.48
3:J:97:VAL:CG1	3:J:101:ARG:CZ	2.89	0.48
3:J:1249:ASN:HD21	3:J:1251:LYS:NZ	2.12	0.48
3:J:422:LEU:HB2	3:J:469:HIS:HB2	1.96	0.48
3:J:506:VAL:HG13	3:J:507:VAL:H	1.78	0.48
3:J:624:ILE:HA	3:J:627:THR:CG2	2.43	0.48
3:J:773:PHE:O	3:J:776:THR:HB	2.13	0.48
3:J:843:VAL:HG13	3:J:883:ARG:HD3	1.93	0.48
4:K:36:ASP:N	4:K:36:ASP:OD1	2.43	0.48
5:L:270:VAL:HG12	5:L:274:ARG:NH2	2.27	0.48
5:L:288:MET:HA	5:L:302:PHE:CZ	2.48	0.48
5:L:388:ILE:O	5:L:392:LYS:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:555:GLU:O	5:L:558:VAL:HB	2.13	0.48
5:L:584:ARG:O	5:L:587:ILE:N	2.44	0.48
1:B:135:ASP:O	1:B:136:GLU:HB3	2.13	0.48
2:C:1013:GLN:O	2:C:1016:GLU:HB2	2.13	0.48
2:C:1073:LYS:CB	3:D:462:ASP:HB2	2.43	0.48
2:C:1191:LYS:HD3	2:C:1191:LYS:C	2.33	0.48
2:C:1281:TYR:HD2	2:C:1281:TYR:N	2.12	0.48
2:C:194:LEU:HD12	2:C:195:PHE:H	1.78	0.48
2:C:271:ALA:O	2:C:275:ARG:N	2.32	0.48
2:C:490:GLN:O	2:C:492:MET:N	2.46	0.48
2:C:800:MET:HE1	2:C:822:VAL:CG2	2.43	0.48
3:D:882:VAL:CG1	3:D:883:ARG:N	2.75	0.48
3:D:49:PHE:CE1	5:F:500:ILE:HD11	2.48	0.48
5:F:555:GLU:O	5:F:558:VAL:HB	2.13	0.48
1:G:156:SER:HB2	2:I:1059:ARG:HH22	1.78	0.48
1:G:50:SER:OG	1:H:35:PHE:CZ	2.66	0.48
1:H:98:VAL:HG13	1:H:100:LEU:CD1	2.42	0.48
2:I:818:VAL:HG22	2:I:1095:ASP:O	2.13	0.48
2:I:1163:THR:O	2:I:1165:SER:N	2.46	0.48
2:I:670:PHE:H	2:I:1184:THR:HG21	1.77	0.48
2:I:241:LEU:HB3	2:I:283:LYS:O	2.13	0.48
3:J:1155:ILE:H	3:J:1155:ILE:HD12	1.78	0.48
3:J:1226:VAL:HA	3:J:1229:VAL:HG12	1.93	0.48
3:J:1249:ASN:HD21	3:J:1251:LYS:HZ3	1.60	0.48
3:J:1292:LEU:O	3:J:1293:GLU:HB2	2.13	0.48
3:J:242:LEU:HD23	3:J:243:PRO:N	2.28	0.48
3:J:418:GLU:HB3	4:K:48:VAL:CG2	2.39	0.48
3:J:818:GLU:HG2	3:J:887:SER:HB2	1.94	0.48
5:L:227:GLN:HB2	5:L:255:VAL:HG21	1.96	0.48
5:L:441:ARG:O	5:L:441:ARG:HD2	2.13	0.48
1:A:102:LEU:HB3	1:A:142:MET:CG	2.44	0.48
1:A:57:THR:C	1:A:158:ARG:HH22	2.16	0.48
1:B:63:GLY:CA	1:B:71:LYS:HE3	2.41	0.48
2:C:169:LYS:NZ	2:C:192:ASP:OD1	2.39	0.48
2:C:359:ARG:NH1	2:C:378:ARG:HH22	2.12	0.48
3:D:1262:ARG:NH2	3:D:1312:ALA:HB1	2.24	0.48
3:D:257:GLY:O	3:D:259:ARG:N	2.46	0.48
2:C:810:TYR:HD2	3:D:359:PRO:HD2	1.72	0.48
3:D:378:LYS:CB	3:D:379:PRO:HD3	2.42	0.48
3:D:45:ASN:N	3:D:50:LYS:O	2.46	0.48
3:D:580:TRP:O	3:D:583:VAL:HG23	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:655:SER:HA	3:D:658:GLU:HB3	1.94	0.48
3:D:800:LEU:HD12	3:D:800:LEU:N	2.28	0.48
3:D:847:ASP:HA	3:D:858:VAL:O	2.13	0.48
3:D:883:ARG:HB3	3:D:898:CYS:HA	1.96	0.48
4:E:45:LYS:O	4:E:49:ILE:HG13	2.12	0.48
1:G:153:VAL:N	1:G:175:ALA:O	2.36	0.48
2:I:1010:GLN:O	2:I:1013:GLN:HB2	2.12	0.48
2:I:1122:LYS:CB	2:I:1229:TYR:CE1	2.96	0.48
2:I:123:TYR:OH	2:I:126:GLU:HG3	2.13	0.48
2:I:158:ASP:CG	2:I:159:SER:H	2.17	0.48
2:I:338:THR:CG2	2:I:345:PRO:CB	2.79	0.48
2:I:633:LEU:HD23	2:I:633:LEU:H	1.76	0.48
2:I:669:PRO:HA	2:I:702:THR:HG22	1.96	0.48
2:I:82:VAL:CG2	2:I:92:TYR:CE1	2.96	0.48
2:I:996:ARG:HD3	2:I:999:GLU:OE2	2.14	0.48
3:J:1172:LYS:CB	3:J:1189:MET:HB3	2.44	0.48
3:J:1219:ASP:O	3:J:1223:LEU:N	2.39	0.48
3:J:368:LEU:HD23	3:J:368:LEU:C	2.34	0.48
3:J:739:GLN:OE1	3:J:744:ARG:HD2	2.13	0.48
3:J:903:LEU:HB3	3:J:905:ARG:CG	2.44	0.48
3:J:491:LEU:CB	3:J:904:ALA:HA	2.37	0.48
5:L:389:SER:O	5:L:392:LYS:HB3	2.13	0.48
5:L:421:TYR:C	5:L:423:ARG:H	2.17	0.48
1:A:16:ILE:HG23	1:A:26:VAL:HG12	1.95	0.48
1:A:29:GLU:N	1:A:30:PRO:HD3	2.28	0.48
1:B:82:LEU:HD23	1:B:85:LEU:CD1	2.44	0.48
2:C:101:ARG:CZ	2:C:118:LYS:HD2	2.43	0.48
2:C:1138:VAL:O	2:C:1142:ARG:N	2.21	0.48
2:C:1339:LEU:HD12	2:C:1339:LEU:N	2.28	0.48
2:C:211:ARG:HD2	2:C:356:THR:OG1	2.13	0.48
2:C:39:ILE:CD1	2:C:75:LEU:HG	2.43	0.48
2:C:516:ASP:CA	2:C:761:GLN:HE22	2.20	0.48
1:A:152:TYR:HD1	2:C:824:GLN:HG2	1.74	0.48
3:D:336:GLY:HA2	3:D:338:PHE:CA	2.42	0.48
2:C:1305:TYR:CE1	3:D:379:PRO:HG2	2.41	0.48
3:D:597:GLY:HA3	3:D:599:LYS:HG3	1.95	0.48
2:C:549:ASP:OD2	3:D:777:HIS:ND1	2.46	0.48
3:D:833:GLU:OE2	3:D:834:PRO:HD2	2.14	0.48
4:E:9:ALA:HB2	4:E:55:GLU:HG2	1.96	0.48
1:G:100:LEU:HD23	1:G:115:ILE:CG2	2.34	0.48
2:I:1108:ASN:O	2:I:1110:GLY:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1120:ALA:HB2	2:I:1199:LEU:HG	1.95	0.48
2:I:222:ASP:HA	2:I:227:LYS:HZ3	1.79	0.48
2:I:390:PHE:O	2:I:419:ILE:HD12	2.13	0.48
2:I:179:TYR:OH	2:I:458:GLU:OE2	2.17	0.48
2:I:660:VAL:HG11	3:J:769:VAL:HG13	1.95	0.48
2:I:667:LEU:CD2	2:I:704:MET:HB2	2.40	0.48
2:I:840:SER:HA	2:I:886:LYS:HD2	1.95	0.48
3:J:1167:LYS:HZ3	3:J:1170:LYS:HB2	1.77	0.48
3:J:1172:LYS:HZ1	3:J:1191:PRO:HG3	1.77	0.48
3:J:288:PRO:O	3:J:291:ILE:N	2.43	0.48
3:J:492:SER:HB2	3:J:499:ILE:CD1	2.42	0.48
3:J:518:VAL:HG13	3:J:519:ASN:HB3	1.96	0.48
3:J:568:SER:OG	3:J:570:LYS:HG2	2.14	0.48
5:L:121:LYS:HA	5:L:421:TYR:CE2	2.48	0.48
5:L:433:TRP:NE1	5:L:437:GLN:HB2	2.28	0.48
1:A:11:PRO:HA	1:A:30:PRO:CG	2.44	0.48
1:B:102:LEU:C	1:B:141:SER:HA	2.34	0.48
1:B:302:GLU:O	1:B:305:ASP:HB2	2.13	0.48
2:C:18:ARG:O	2:C:1156:ARG:HD2	2.13	0.48
2:C:1253:LEU:O	2:C:1253:LEU:HD23	2.14	0.48
2:C:192:ASP:HB3	2:C:346:TYR:HD1	1.79	0.48
2:C:593:LYS:HE3	2:C:595:THR:HG22	1.96	0.48
2:C:594:VAL:HG12	2:C:596:ASP:O	2.14	0.48
2:C:93:SER:HA	2:C:128:PRO:HA	1.95	0.48
3:D:1307:LEU:HD12	3:D:1308:GLY:H	1.78	0.48
3:D:1337:VAL:HG23	3:D:1338:ALA:N	2.27	0.48
3:D:1344:LEU:O	3:D:1345:ARG:HB2	2.14	0.48
3:D:344:GLY:HA2	8:D:2004:4C4:H22	1.96	0.48
3:D:292:VAL:O	3:D:296:LYS:HG3	2.11	0.48
3:D:363:LEU:CA	3:D:450:HIS:CD2	2.93	0.48
3:D:914:ALA:O	3:D:916:GLY:N	2.46	0.48
5:F:279:ARG:CA	5:F:282:THR:HB	2.43	0.48
2:I:10:ARG:HD3	2:I:1181:PRO:CG	2.40	0.48
2:I:1134:GLN:HG2	2:I:1136:GLN:HG2	1.96	0.48
2:I:1290:MET:HE2	2:I:1294:LYS:CE	2.44	0.48
2:I:587:LEU:HD23	2:I:587:LEU:HA	1.47	0.48
2:I:782:VAL:HG11	2:I:792:GLY:HA2	1.96	0.48
2:I:822:VAL:HG12	2:I:823:VAL:N	2.29	0.48
2:I:78:PRO:HB3	2:I:93:SER:O	2.13	0.48
3:J:1162:ILE:CG1	3:J:1163:VAL:N	2.77	0.48
3:J:1238:GLN:CB	3:J:1242:ARG:HH21	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1346:GLY:HA3	3:J:1349:GLU:CB	2.44	0.48
3:J:1352:ILE:CD1	3:J:1352:ILE:H	2.26	0.48
3:J:367:GLY:O	3:J:448:GLN:N	2.31	0.48
3:J:514:THR:HB	3:J:596:LEU:HD23	1.95	0.48
3:J:552:ILE:C	3:J:552:ILE:HD12	2.33	0.48
3:J:653:ILE:HD13	3:J:692:ARG:HB3	1.96	0.48
3:J:99:ARG:HG3	3:J:249:LEU:HD21	1.95	0.48
5:L:101:TYR:CZ	5:L:405:ILE:HD11	2.48	0.48
1:A:36:GLY:HA2	1:A:201:LEU:HD22	1.95	0.48
1:B:89:ALA:CB	1:B:124:VAL:HB	2.37	0.48
2:C:1021:LEU:HD23	2:C:1021:LEU:N	2.24	0.48
2:C:1066:MET:HE3	2:C:1076:ILE:CG2	2.44	0.48
2:C:1328:LYS:O	2:C:1332:SER:HB3	2.14	0.48
2:C:74:ARG:NH1	2:C:121:GLU:OE2	2.47	0.48
3:D:194:LEU:O	3:D:197:GLU:N	2.46	0.48
3:D:227:PHE:CE2	3:D:234:PRO:HG3	2.49	0.48
3:D:236:TRP:C	3:D:238:ILE:N	2.65	0.48
3:D:291:ILE:O	3:D:294:ASN:N	2.46	0.48
4:E:74:GLU:O	4:E:77:ALA:HB3	2.14	0.48
5:F:297:MET:HE1	5:F:330:LEU:HD11	1.95	0.48
5:F:309:ASN:HA	5:F:356:GLU:OE2	2.14	0.48
2:C:1256:GLN:HE22	5:F:528:LEU:HD23	1.78	0.48
1:G:211:ILE:HD13	1:G:212:ASP:N	2.28	0.48
1:H:101:THR:H	1:H:116:THR:CG2	2.26	0.48
2:I:1087:TYR:N	2:I:1087:TYR:CD1	2.82	0.48
2:I:250:THR:HA	2:I:268:ARG:HA	1.96	0.48
2:I:27:LEU:HA	2:I:528:ARG:NH1	2.28	0.48
2:I:57:PHE:HD1	2:I:69:GLN:C	2.16	0.48
3:J:113:HIS:ND1	3:J:115:TRP:HB2	2.26	0.48
3:J:1241:TYR:CD2	3:J:1246:VAL:CG1	2.97	0.48
3:J:1269:ALA:CB	3:J:1274:PHE:CE1	2.97	0.48
3:J:361:LEU:O	3:J:626:TYR:OH	2.28	0.48
3:J:398:LYS:HG2	3:J:402:GLU:OE2	2.14	0.48
3:J:870:ASP:O	3:J:873:GLU:HB3	2.14	0.48
5:L:227:GLN:CG	5:L:255:VAL:HG21	2.43	0.48
3:J:43:THR:OG1	5:L:449:THR:O	2.26	0.48
1:A:33:ARG:O	1:A:35:PHE:N	2.46	0.48
1:B:273:GLU:CD	1:B:293:PRO:HD2	2.33	0.48
1:B:37:HIS:CE1	2:C:1216:ARG:HD2	2.49	0.48
2:C:102:LEU:HD11	2:C:104:ILE:HD11	1.94	0.48
2:C:1082:ILE:HD12	2:C:1082:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ILE:O	2:C:213:LEU:HD23	2.14	0.48
2:C:260:LYS:HE3	2:C:262:TYR:CE1	2.48	0.48
2:C:143:ARG:HH21	2:C:513:GLN:N	2.12	0.48
2:C:582:ASN:HB3	2:C:586:PHE:N	2.29	0.48
2:C:593:LYS:CG	2:C:595:THR:HG23	2.43	0.48
2:C:755:LYS:HD3	2:C:766:ASN:OD1	2.14	0.48
2:C:873:ILE:HG13	2:C:944:ARG:HH22	1.79	0.48
3:D:1347:LEU:HD12	3:D:1347:LEU:N	2.29	0.48
3:D:317:THR:HA	3:D:324:LEU:HD21	1.96	0.48
3:D:318:GLY:O	3:D:319:SER:HB3	2.13	0.48
3:D:433:GLY:C	3:D:434:ILE:HG13	2.33	0.48
3:D:478:LEU:O	3:D:481:ARG:N	2.45	0.48
3:D:602:SER:O	3:D:605:LEU:HB2	2.13	0.48
3:D:745:GLY:C	3:D:746:LEU:HD12	2.34	0.48
3:D:865:HIS:CE1	3:D:868:TRP:CD1	3.01	0.48
5:F:141:ILE:N	5:F:141:ILE:HD12	2.28	0.48
5:F:278:ASP:O	5:F:282:THR:N	2.45	0.48
5:F:440:THR:HG23	5:F:441:ARG:H	1.76	0.48
5:F:456:MET:HE2	5:F:456:MET:HB3	1.57	0.48
5:F:509:THR:HG23	5:F:510:PRO:O	2.13	0.48
5:F:599:ARG:C	5:F:601:PRO:HD3	2.33	0.48
2:I:1174:GLU:O	2:I:1177:ARG:HG2	2.14	0.48
2:I:1304:MET:HE2	2:I:1308:ILE:HD11	1.95	0.48
2:I:1313:HIS:N	2:I:1313:HIS:ND1	2.62	0.48
2:I:277:LEU:CD2	2:I:282:VAL:HB	2.43	0.48
2:I:302:ILE:HG22	2:I:309:LEU:HA	1.95	0.48
2:I:484:LEU:HB2	2:I:485:ASP:H	1.49	0.48
2:I:516:ASP:HA	2:I:761:GLN:CD	2.34	0.48
2:I:46:GLN:O	2:I:51:ALA:HB2	2.14	0.48
2:I:553:THR:O	2:I:557:ARG:HD2	2.13	0.48
3:J:416:ILE:CG1	3:J:441:LEU:HD21	2.44	0.48
3:J:463:GLY:O	3:J:465:GLN:HG3	2.14	0.48
3:J:74:LYS:C	3:J:75:TYR:HD1	2.16	0.48
3:J:812:ASP:HB2	3:J:911:LYS:CE	2.42	0.48
1:A:31:LEU:HD12	1:A:199:ASP:O	2.13	0.48
1:B:154:PRO:C	1:B:157:THR:HG1	2.18	0.48
1:B:41:ASN:O	1:B:44:ARG:HB2	2.13	0.48
2:C:1006:GLU:N	2:C:1006:GLU:CD	2.67	0.48
1:A:45:ARG:HH22	2:C:1216:ARG:HG2	1.78	0.48
2:C:29:SER:HB2	2:C:30:ILE:HD12	1.95	0.48
2:C:39:ILE:O	2:C:40:GLU:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:465:ARG:O	2:C:468:LEU:HB2	2.13	0.48
2:C:719:LYS:HE3	2:C:751:TYR:CE1	2.48	0.48
3:D:1144:LEU:HD12	3:D:1237:VAL:HA	1.96	0.48
3:D:1251:LYS:HG3	3:D:1251:LYS:HZ3	1.36	0.48
3:D:1351:VAL:C	3:D:1354:GLY:H	2.16	0.48
3:D:403:ARG:HH11	3:D:403:ARG:HG3	1.77	0.48
3:D:429:LEU:HA	3:D:429:LEU:HD13	1.46	0.48
3:D:422:LEU:HD13	3:D:471:PRO:HG3	1.96	0.48
3:D:517:CYS:SG	3:D:518:VAL:N	2.86	0.48
5:F:121:LYS:HE2	5:F:421:TYR:OH	2.14	0.48
5:F:387:VAL:HG21	5:F:409:ASN:OD1	2.13	0.48
5:F:433:TRP:HZ3	5:F:434:TRP:CE2	2.32	0.48
5:F:530:LEU:O	5:F:534:SER:N	2.47	0.48
5:F:584:ARG:O	5:F:587:ILE:N	2.46	0.48
1:G:18:GLN:HA	1:G:24:ALA:HB1	1.95	0.48
2:I:1052:VAL:C	2:I:1053:TYR:HD1	2.16	0.48
2:I:1125:GLY:O	2:I:1128:ILE:N	2.47	0.48
2:I:1156:ARG:HH11	2:I:1156:ARG:HG3	1.79	0.48
2:I:1260:GLY:CA	2:I:1265:PHE:HA	2.36	0.48
2:I:144:VAL:CG1	2:I:145:ILE:N	2.77	0.48
2:I:325:LEU:O	2:I:328:SER:N	2.47	0.48
2:I:387:ASN:O	2:I:394:ARG:HG3	2.14	0.48
2:I:405:PHE:CE2	2:I:409:LEU:CD1	2.97	0.48
2:I:786:GLY:C	2:I:789:THR:HG23	2.34	0.48
3:J:1290:ARG:CZ	3:J:1290:ARG:HB2	2.41	0.48
3:J:375:GLU:OE2	3:J:378:LYS:HD2	2.14	0.48
3:J:382:TYR:CB	3:J:394:ILE:HD13	2.43	0.48
4:K:23:ALA:HB2	4:K:54:ILE:HG13	1.94	0.48
5:L:231:THR:HB	5:L:252:LEU:HD22	1.96	0.48
1:B:103:ASN:HA	1:B:141:SER:CB	2.34	0.48
2:C:1027:LYS:HG3	2:C:1028:LYS:N	2.29	0.48
2:C:1030:GLU:OE1	2:C:1033:ARG:NH2	2.47	0.48
2:C:1337:ILE:HA	3:D:21:LYS:O	2.14	0.48
2:C:159:SER:O	2:C:160:ASP:CB	2.61	0.48
2:C:230:PHE:CE1	2:C:239:MET:HB2	2.48	0.48
2:C:390:PHE:CA	2:C:419:ILE:HG21	2.43	0.48
3:D:1330:ARG:O	3:D:1333:THR:N	2.47	0.48
3:D:16:GLU:HA	3:D:16:GLU:OE2	2.14	0.48
3:D:227:PHE:HE1	3:D:232:ASN:O	1.97	0.48
3:D:318:GLY:O	3:D:320:ASN:N	2.36	0.48
3:D:686:TRP:HA	3:D:686:TRP:CE3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:707:ILE:HD12	3:D:707:ILE:N	2.28	0.48
5:F:274:ARG:HA	5:F:277:MET:CB	2.44	0.48
2:I:1149:TYR:HE2	2:I:1180:MET:SD	2.36	0.48
2:I:1155:VAL:CG2	2:I:1157:GLN:H	2.21	0.48
2:I:119:GLU:HG3	2:I:488:MET:HB3	1.96	0.48
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.76	0.48
2:I:210:LEU:HB3	2:I:220:ILE:HD11	1.95	0.48
2:I:211:ARG:NH2	2:I:351:LEU:CD2	2.77	0.48
2:I:28:LEU:HD22	2:I:527:LYS:HD3	1.96	0.48
2:I:208:ILE:HD11	2:I:356:THR:CG2	2.43	0.48
2:I:174:ALA:CB	2:I:432:LEU:HD13	2.29	0.48
2:I:61:SER:HB3	2:I:66:SER:HB2	1.96	0.48
3:J:227:PHE:CZ	3:J:232:ASN:HB2	2.49	0.48
3:J:392:THR:HG21	5:L:606:VAL:CG2	2.43	0.48
3:J:518:VAL:HG13	3:J:519:ASN:N	2.27	0.48
3:J:536:LEU:HD13	3:J:541:LEU:CB	2.38	0.48
3:J:749:LYS:HB2	3:J:750:PRO:HD3	1.95	0.48
3:J:842:ARG:CZ	3:J:884:SER:HB2	2.44	0.48
5:L:121:LYS:O	5:L:124:GLU:HB3	2.13	0.48
3:J:261:ALA:CB	5:L:505:ILE:HG23	2.43	0.48
2:C:409:LEU:HD22	2:C:427:ASP:HB3	1.96	0.47
2:C:452:ARG:HG3	2:C:453:ILE:N	2.29	0.47
3:D:1243:LEU:O	3:D:1243:LEU:HG	2.12	0.47
3:D:337:ARG:HA	3:D:338:PHE:HA	1.52	0.47
3:D:526:VAL:CG1	3:D:549:LYS:HB2	2.44	0.47
3:D:75:TYR:N	3:D:75:TYR:CD1	2.82	0.47
3:D:810:THR:CG2	3:D:893:GLY:CA	2.83	0.47
1:G:13:LEU:H	1:G:13:LEU:CD2	2.25	0.47
1:G:155:ALA:N	1:G:174:ASP:OD1	2.42	0.47
1:G:218:ARG:HD3	1:H:233:ASP:CA	2.44	0.47
2:I:736:VAL:H	2:I:748:ILE:HG22	1.78	0.47
2:I:866:ASP:OD2	2:I:868:SER:N	2.46	0.47
3:J:1257:VAL:O	3:J:1261:LEU:CD1	2.62	0.47
3:J:23:ALA:HA	3:J:1336:ALA:O	2.13	0.47
3:J:327:LEU:O	3:J:329:ASP:N	2.47	0.47
3:J:392:THR:CB	5:L:606:VAL:HG11	2.42	0.47
3:J:428:THR:O	3:J:428:THR:HG22	2.14	0.47
3:J:452:LEU:O	3:J:500:ILE:HG23	2.14	0.47
3:J:499:ILE:HG22	3:J:500:ILE:HG12	1.96	0.47
3:J:629:PHE:O	3:J:632:ALA:N	2.46	0.47
2:I:1113:LEU:CD1	3:J:641:ILE:HG13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:646:ILE:HD11	3:J:764:ARG:HB3	1.96	0.47
3:J:844:THR:HG21	3:J:858:VAL:HG21	1.95	0.47
5:L:276:MET:O	5:L:280:VAL:HG23	2.14	0.47
5:L:343:LYS:O	5:L:347:ILE:HG13	2.14	0.47
2:I:1302:THR:HG22	5:L:531:PRO:CA	2.45	0.47
2:C:1024:GLU:O	2:C:1024:GLU:HG2	2.14	0.47
2:C:1142:ARG:CZ	2:C:1165:SER:HA	2.44	0.47
2:C:1191:LYS:CE	2:C:1192:GLU:HB2	2.44	0.47
2:C:803:ALA:HB2	2:C:1227:VAL:HB	1.95	0.47
2:C:719:LYS:N	2:C:751:TYR:OH	2.41	0.47
3:D:1140:ARG:O	3:D:1143:ASP:HB2	2.14	0.47
3:D:1145:PHE:HB3	3:D:1309:ILE:CD1	2.43	0.47
3:D:79:LYS:HE3	3:D:80:HIS:N	2.29	0.47
5:F:121:LYS:O	5:F:124:GLU:N	2.47	0.47
5:F:238:LYS:CE	5:F:242:HIS:CE1	2.97	0.47
5:F:248:GLU:HA	5:F:251:LYS:HG3	1.97	0.47
5:F:512:GLY:O	5:F:513:ASP:CB	2.62	0.47
1:G:41:ASN:C	1:G:43:LEU:H	2.18	0.47
1:G:80:GLU:CG	1:G:84:ASN:HD21	2.25	0.47
2:I:1077:SER:O	2:I:1078:LYS:HB2	2.14	0.47
2:I:1156:ARG:HH11	2:I:1156:ARG:CG	2.27	0.47
2:I:848:GLU:CG	2:I:888:THR:HG22	2.43	0.47
3:J:353:SER:OG	3:J:354:VAL:O	2.30	0.47
3:J:481:ARG:HG3	3:J:485:MET:SD	2.54	0.47
3:J:42:GLU:O	3:J:55:GLY:HA3	2.15	0.47
3:J:870:ASP:O	3:J:874:GLU:N	2.44	0.47
3:J:900:GLY:O	3:J:908:ILE:HG12	2.14	0.47
5:L:343:LYS:C	5:L:346:GLN:HB3	2.34	0.47
1:B:10:LYS:HG3	1:B:11:PRO:HD2	1.96	0.47
1:B:154:PRO:HB2	1:B:157:THR:OG1	2.13	0.47
1:B:248:GLU:CG	1:B:249:PHE:N	2.77	0.47
1:B:89:ALA:HB1	1:B:124:VAL:CB	2.37	0.47
2:C:1006:GLU:OE2	2:C:1007:LYS:N	2.47	0.47
2:C:1033:ARG:O	2:C:1036:ILE:HB	2.14	0.47
2:C:1080:ASN:CB	2:C:1085:MET:HE3	2.44	0.47
2:C:1144:PHE:HE1	2:C:1201:LEU:CD1	2.08	0.47
2:C:242:VAL:CB	2:C:245:ARG:HD2	2.43	0.47
2:C:509:SER:O	2:C:512:SER:N	2.24	0.47
2:C:686:GLN:O	2:C:689:ALA:HB2	2.13	0.47
2:C:712:SER:O	2:C:714:VAL:HG22	2.14	0.47
2:C:975:ILE:HG22	2:C:976:ARG:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:35:PHE:CE1	3:D:101:ARG:HB3	2.48	0.47
3:D:1137:GLY:O	3:D:1140:ARG:HB3	2.13	0.47
3:D:184:ALA:O	3:D:187:ALA:HB3	2.13	0.47
2:C:1337:ILE:HA	3:D:22:ILE:HA	1.95	0.47
3:D:245:LEU:HD21	3:D:249:LEU:CD1	2.37	0.47
3:D:508:LEU:HA	3:D:508:LEU:HD12	1.45	0.47
3:D:655:SER:HA	3:D:658:GLU:HB2	1.94	0.47
3:D:679:TYR:HD2	3:D:680:ASN:N	2.13	0.47
3:D:872:LEU:HD22	3:D:877:VAL:CB	2.43	0.47
5:F:137:TYR:HB3	5:F:140:ALA:HB3	1.95	0.47
5:F:343:LYS:HA	5:F:346:GLN:OE1	2.14	0.47
1:G:11:PRO:HB3	1:G:30:PRO:O	2.14	0.47
2:I:1010:GLN:O	2:I:1013:GLN:N	2.47	0.47
2:I:1023:HIS:O	2:I:1026:GLU:HB2	2.13	0.47
2:I:1143:GLU:CD	2:I:1147:ARG:HH11	2.17	0.47
2:I:216:THR:H	2:I:219:GLN:CD	2.17	0.47
2:I:402:ARG:HD2	2:I:406:ASN:ND2	2.29	0.47
2:I:557:ARG:NE	2:I:608:ALA:HA	2.29	0.47
2:I:619:ALA:CB	2:I:657:THR:HA	2.44	0.47
2:I:706:ARG:HG2	2:I:706:ARG:HH11	1.79	0.47
3:J:107:LEU:HD12	3:J:240:THR:C	2.34	0.47
3:J:1160:SER:HB2	3:J:1206:ARG:HG2	1.96	0.47
3:J:153:ASN:HB2	3:J:172:PHE:CE1	2.49	0.47
3:J:227:PHE:HE1	3:J:234:PRO:CD	2.27	0.47
3:J:372:MET:C	3:J:376:LEU:HD12	2.34	0.47
3:J:523:GLU:OE1	3:J:547:ARG:HD2	2.14	0.47
3:J:624:ILE:CA	3:J:627:THR:HG22	2.44	0.47
3:J:848:VAL:HB	3:J:858:VAL:HG13	1.95	0.47
5:L:227:GLN:C	5:L:252:LEU:HD13	2.35	0.47
1:A:102:LEU:HD23	1:A:115:ILE:CA	2.40	0.47
1:B:192:VAL:O	1:B:193:GLU:C	2.51	0.47
1:B:26:VAL:N	1:B:203:ILE:O	2.42	0.47
1:B:248:GLU:HG3	1:B:249:PHE:H	1.77	0.47
1:B:81:ILE:O	1:B:84:ASN:N	2.48	0.47
2:C:272:ARG:HE	2:C:276:GLN:NE2	2.13	0.47
2:C:365:GLU:O	2:C:369:MET:N	2.44	0.47
2:C:398:SER:O	2:C:401:GLY:N	2.48	0.47
2:C:53:PHE:CD2	2:C:70:TYR:CE1	3.02	0.47
2:C:761:GLN:O	2:C:763:THR:HG22	2.14	0.47
2:C:865:LEU:HD23	2:C:865:LEU:HA	1.48	0.47
3:D:1157:ALA:HB1	3:D:1206:ARG:HA	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1196:LEU:HD22	3:D:1196:LEU:H	1.78	0.47
3:D:1372:ARG:HE	3:J:854:ALA:HB3	1.80	0.47
3:D:247:PRO:C	3:D:249:LEU:H	2.17	0.47
3:D:597:GLY:N	3:D:599:LYS:HE2	2.29	0.47
3:D:686:TRP:HB3	3:D:758:PRO:CG	2.44	0.47
5:F:485:GLU:C	5:F:487:MET:N	2.67	0.47
1:G:73:GLY:C	1:G:134:THR:HG22	2.35	0.47
1:G:57:THR:HB	1:G:145:LYS:HD3	1.96	0.47
1:H:31:LEU:N	1:H:31:LEU:HD22	2.30	0.47
2:I:1253:LEU:HD23	2:I:1253:LEU:C	2.34	0.47
2:I:269:ILE:CD1	2:I:269:ILE:N	2.77	0.47
2:I:292:ILE:HB	2:I:322:LEU:HD11	1.95	0.47
2:I:473:ARG:O	2:I:477:GLU:HB2	2.15	0.47
2:I:448:LEU:HD11	2:I:554:HIS:ND1	2.29	0.47
2:I:676:ALA:HA	2:I:679:ALA:HB3	1.97	0.47
2:I:998:LEU:HD12	2:I:998:LEU:H	1.79	0.47
3:J:362:ARG:HB3	3:J:362:ARG:CZ	2.38	0.47
3:J:583:VAL:HG12	3:J:587:LEU:HB2	1.95	0.47
3:J:734:ALA:HA	3:J:737:ILE:HG13	1.96	0.47
3:J:842:ARG:CB	3:J:882:VAL:HG11	2.45	0.47
3:J:867:GLN:O	3:J:869:CYS:N	2.47	0.47
3:J:865:HIS:HE1	3:J:868:TRP:H	1.58	0.47
3:J:929:GLN:O	3:J:1244:GLN:NE2	2.48	0.47
4:K:24:ALA:O	4:K:26:ARG:N	2.48	0.47
3:J:418:GLU:OE1	4:K:2:ALA:HA	2.14	0.47
5:L:562:ARG:C	5:L:563:PHE:HD1	2.17	0.47
1:B:104:LYS:O	1:B:140:ILE:HG23	2.15	0.47
1:B:76:GLU:CB	1:B:80:GLU:HG2	2.44	0.47
1:A:223:ILE:CD1	1:B:8:PHE:CE2	2.96	0.47
2:C:682:GLY:HA2	2:C:1071:GLY:CA	2.44	0.47
2:C:1105:SER:O	2:C:1107:MET:N	2.48	0.47
2:C:1109:ILE:CD1	3:D:644:MET:SD	3.02	0.47
2:C:1149:TYR:HD1	2:C:1159:VAL:CG1	2.24	0.47
2:C:1297:ASP:OD1	2:C:1300:GLY:CA	2.62	0.47
2:C:56:VAL:HG11	2:C:468:LEU:HB3	1.97	0.47
2:C:672:GLU:HG3	2:C:1187:PHE:CD2	2.49	0.47
2:C:750:ILE:HG12	2:C:750:ILE:O	2.09	0.47
3:D:37:GLU:HA	3:D:104:HIS:O	2.14	0.47
3:D:1298:VAL:CB	3:D:1299:GLY:HA3	2.45	0.47
3:D:132:LEU:HD22	3:D:132:LEU:HA	1.49	0.47
2:C:1336:ASN:ND2	3:D:29:MET:HE1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:332:LYS:C	3:D:334:LYS:N	2.67	0.47
2:C:1305:TYR:CZ	3:D:379:PRO:HG3	2.47	0.47
3:D:436:ALA:HB2	3:D:484:MET:HB2	1.96	0.47
3:D:530:PRO:O	3:D:533:ALA:HB3	2.13	0.47
3:D:71:LEU:O	3:D:71:LEU:HD22	2.14	0.47
3:D:782:GLY:O	3:D:786:THR:HG23	2.14	0.47
5:F:423:ARG:HG2	5:F:425:TYR:CE1	2.48	0.47
1:G:133:LEU:HA	1:G:133:LEU:HD13	1.33	0.47
1:G:151:GLY:H	1:G:177:TYR:HB2	1.76	0.47
1:H:182:ARG:O	1:H:205:MET:HG3	2.14	0.47
1:H:92:VAL:HG12	1:H:93:GLN:N	2.29	0.47
1:H:33:ARG:NH1	2:I:1081:PRO:HG3	2.29	0.47
2:I:1111:GLN:HB2	2:I:1230:MET:CE	2.45	0.47
3:J:101:ARG:HG2	3:J:101:ARG:NH1	2.29	0.47
2:I:1339:LEU:HD23	3:J:17:PHE:CD1	2.50	0.47
1:H:80:GLU:HG3	3:J:551:ARG:NH2	2.29	0.47
3:J:64:PRO:HB3	3:J:69:GLU:O	2.15	0.47
3:J:650:LYS:NZ	3:J:765:GLU:OE2	2.47	0.47
5:L:333:VAL:CG2	5:L:336:GLU:HB2	2.44	0.47
5:L:485:GLU:C	5:L:487:MET:N	2.68	0.47
1:B:110:VAL:O	1:B:130:ILE:HD12	2.14	0.47
1:B:35:PHE:HD1	1:B:35:PHE:N	2.11	0.47
1:B:79:LEU:H	1:B:79:LEU:CD2	2.21	0.47
2:C:1214:ASP:OD1	2:C:1214:ASP:C	2.53	0.47
2:C:170:VAL:O	2:C:171:LEU:HD23	2.15	0.47
2:C:271:ALA:O	2:C:275:ARG:HG3	2.14	0.47
2:C:502:VAL:O	2:C:505:PHE:N	2.48	0.47
2:C:90:VAL:CG1	2:C:91:THR:H	2.16	0.47
2:C:950:GLU:O	2:C:953:LEU:HB3	2.15	0.47
3:D:197:GLU:O	3:D:200:GLN:HB2	2.15	0.47
3:D:541:LEU:HA	3:D:541:LEU:HD23	1.30	0.47
5:F:489:MET:HA	5:F:490:PRO:HD2	1.65	0.47
2:C:906:PHE:HZ	5:F:601:PRO:HG2	1.80	0.47
1:H:226:GLU:OE1	1:H:226:GLU:CA	2.61	0.47
1:G:38:THR:CA	1:H:45:ARG:HH11	2.27	0.47
2:I:103:VAL:HG12	2:I:116:ASP:HA	1.97	0.47
2:I:143:ARG:HA	2:I:513:GLN:O	2.14	0.47
2:I:563:THR:CG2	2:I:564:PRO:N	2.78	0.47
3:J:1337:VAL:HG23	3:J:1338:ALA:N	2.30	0.47
3:J:1347:LEU:N	3:J:1347:LEU:HD12	2.30	0.47
3:J:339:ARG:HB3	3:J:340:GLN:HB2	1.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:426:ALA:CB	3:J:427:PRO:CD	2.90	0.47
3:J:592:VAL:HA	3:J:596:LEU:HD21	1.95	0.47
3:J:75:TYR:CD2	3:J:83:VAL:HG21	2.50	0.47
3:J:768:ASN:HD21	3:J:770:LEU:CD2	2.27	0.47
3:J:826:ILE:H	3:J:831:VAL:HA	1.78	0.47
5:L:137:TYR:CD1	5:L:138:PRO:HD2	2.48	0.47
5:L:144:LEU:O	5:L:148:TYR:N	2.41	0.47
5:L:215:GLU:CA	5:L:218:ARG:HD3	2.40	0.47
1:A:114:ASP:OD1	1:A:114:ASP:N	2.47	0.47
1:A:47:LEU:O	1:A:180:VAL:HG11	2.15	0.47
1:A:187:VAL:HG12	1:A:201:LEU:CD1	2.33	0.47
2:C:1166:ASP:O	2:C:1168:GLU:N	2.47	0.47
2:C:1192:GLU:OE2	3:D:764:ARG:HD3	2.15	0.47
2:C:1251:TYR:HB2	5:F:528:LEU:HD21	1.97	0.47
2:C:1323:PHE:CD1	2:C:1327:LEU:HD11	2.49	0.47
2:C:502:VAL:HG13	2:C:503:LYS:H	1.79	0.47
3:D:1241:TYR:CD2	3:D:1246:VAL:HG11	2.50	0.47
3:D:1307:LEU:CD1	3:D:1311:LYS:HB3	2.45	0.47
3:D:1352:ILE:HD11	8:D:2004:4C4:C8	2.40	0.47
3:D:134:ASP:OD2	3:D:159:ILE:HD13	2.14	0.47
3:D:350:SER:HA	3:D:468:VAL:O	2.15	0.47
3:D:490:ILE:O	3:D:498:PRO:HA	2.14	0.47
3:D:506:VAL:HG13	3:D:507:VAL:N	2.29	0.47
3:D:584:PRO:HD2	3:D:587:LEU:HD13	1.95	0.47
3:D:794:GLY:O	3:D:797:THR:N	2.47	0.47
1:H:62:ASP:OD1	1:H:63:GLY:N	2.46	0.47
1:H:64:VAL:HG12	1:H:66:HIS:HB2	1.96	0.47
2:I:1065:LYS:HE2	3:J:462:ASP:O	2.14	0.47
2:I:1213:TYR:CE1	2:I:1220:GLN:HB2	2.49	0.47
2:I:1214:ASP:N	2:I:1221:PHE:CE2	2.83	0.47
2:I:12:ARG:HH11	2:I:701:GLY:HA3	1.80	0.47
2:I:325:LEU:HA	2:I:328:SER:HB3	1.96	0.47
2:I:460:ALA:O	2:I:461:GLU:C	2.53	0.47
2:I:39:ILE:HD12	2:I:75:LEU:CG	2.44	0.47
2:I:5:TYR:HA	2:I:8:LYS:HD3	1.96	0.47
2:I:994:ARG:HD2	2:I:997:TRP:CZ3	2.49	0.47
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.14	0.47
3:J:134:ASP:O	3:J:137:ARG:HB3	2.13	0.47
3:J:224:LEU:O	3:J:226:ALA:N	2.48	0.47
2:I:1336:ASN:ND2	3:J:29:MET:CE	2.78	0.47
3:J:454:CYS:O	3:J:458:ASN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:495:ASN:ND2	3:J:495:ASN:O	2.48	0.47
3:J:660:GLU:HA	3:J:663:GLU:HG3	1.97	0.47
3:J:665:GLN:O	3:J:669:GLN:HG3	2.15	0.47
3:J:843:VAL:O	3:J:883:ARG:HG3	2.14	0.47
3:J:903:LEU:HD23	3:J:905:ARG:CD	2.44	0.47
3:J:905:ARG:NH1	4:K:10:VAL:HG11	2.30	0.47
5:L:238:LYS:HD3	5:L:242:HIS:HE1	1.80	0.47
5:L:384:LEU:HD23	5:L:384:LEU:N	2.30	0.47
5:L:519:LEU:O	5:L:521:ASP:N	2.47	0.47
1:B:127:GLN:O	1:B:127:GLN:HG3	2.14	0.47
1:B:306:VAL:HA	1:B:309:SER:HB3	1.96	0.47
2:C:933:VAL:HG22	2:C:1050:VAL:HG12	1.96	0.47
2:C:571:LEU:HD23	2:C:571:LEU:HA	1.50	0.47
3:D:930:LEU:HD12	3:D:1138:LEU:HD13	1.96	0.47
3:D:912:GLY:HA2	3:D:1363:TYR:CD1	2.50	0.47
3:D:18:ASP:CG	3:D:1373:ARG:HH21	2.18	0.47
3:D:140:TYR:HB2	5:F:100:MET:HE2	1.97	0.47
3:D:198:CYS:HB3	3:D:202:ARG:NH2	2.30	0.47
3:D:204:GLU:HA	3:D:207:GLU:HB2	1.96	0.47
3:D:268:LEU:HB3	3:D:306:LEU:CD2	2.41	0.47
3:D:782:GLY:O	3:D:785:ASP:N	2.48	0.47
3:D:9:LYS:HG3	3:D:10:ALA:C	2.35	0.47
1:G:179:PRO:HA	1:G:208:ASN:ND2	2.30	0.47
1:G:79:LEU:HA	1:G:79:LEU:HD22	1.73	0.47
2:I:614:TYR:HD2	2:I:614:TYR:N	2.13	0.47
2:I:849:GLU:HB2	2:I:851:THR:CG2	2.42	0.47
3:J:1149:ARG:HG2	3:J:1150:PRO:O	2.14	0.47
3:J:161:THR:N	3:J:164:GLN:OE1	2.30	0.47
2:I:1267:GLY:HA3	3:J:347:VAL:O	2.14	0.47
3:J:527:LEU:O	3:J:550:VAL:HG12	2.15	0.47
3:J:537:TYR:O	3:J:539:SER:N	2.48	0.47
3:J:709:ARG:HB3	3:J:714:GLU:OE1	2.15	0.47
5:L:141:ILE:HG13	5:L:256:PHE:HE1	1.80	0.47
5:L:408:GLY:HA2	5:L:439:ILE:HG22	1.97	0.47
1:A:187:VAL:O	1:A:187:VAL:HG23	2.15	0.47
1:A:36:GLY:CA	1:A:187:VAL:HG11	2.44	0.47
1:B:268:ASN:HA	1:B:271:LYS:HB3	1.96	0.47
1:B:299:SER:O	1:B:303:ILE:HG12	2.14	0.47
1:B:29:GLU:HB2	1:B:30:PRO:HA	1.96	0.47
2:C:168:GLY:O	2:C:170:VAL:N	2.43	0.47
2:C:461:GLU:O	2:C:464:PHE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:478:ARG:NH1	2:C:482:GLY:N	2.63	0.47
2:C:463:GLN:HE22	2:C:501:ALA:CB	2.27	0.47
2:C:785:ASP:OD2	2:C:791:LEU:N	2.39	0.47
2:C:691:PRO:HB3	2:C:788:SER:OG	2.15	0.47
3:D:1280:VAL:HG21	3:D:1304:ARG:NH2	2.30	0.47
3:D:165:TYR:O	3:D:169:LEU:N	2.48	0.47
3:D:176:PHE:C	3:D:176:PHE:CD2	2.88	0.47
3:D:216:LYS:HA	3:D:219:LYS:HZ1	1.78	0.47
3:D:283:LEU:O	3:D:286:ALA:N	2.38	0.47
3:D:442:ILE:HD13	3:D:442:ILE:HA	1.54	0.47
3:D:860:ARG:HG3	3:D:860:ARG:HH11	1.80	0.47
5:F:476:ARG:C	5:F:477:GLU:HG2	2.35	0.47
5:F:511:ILE:HG23	5:F:512:GLY:H	1.80	0.47
1:G:83:LEU:CD1	1:G:83:LEU:N	2.78	0.47
2:I:198:ILE:HG22	2:I:199:ASP:OD1	2.15	0.47
2:I:607:SER:N	2:I:610:GLU:OE1	2.38	0.47
2:I:555:TYR:CD1	2:I:637:ARG:NH2	2.83	0.47
2:I:729:ALA:O	2:I:755:LYS:CE	2.63	0.47
2:I:768:MET:O	2:I:784:ALA:HB1	2.14	0.47
3:J:1226:VAL:C	3:J:1228:ALA:N	2.68	0.47
3:J:265:LEU:HD11	3:J:330:MET:CE	2.20	0.47
3:J:270:ARG:CZ	5:L:449:THR:CG2	2.91	0.47
3:J:306:LEU:HA	3:J:306:LEU:HD23	1.69	0.47
3:J:377:PHE:HD1	3:J:380:PHE:HD1	1.58	0.47
3:J:425:ARG:HD2	3:J:458:ASN:O	2.15	0.47
2:I:804:PHE:O	3:J:638:SER:HB2	2.14	0.47
3:J:857:LEU:CD1	3:J:858:VAL:HG13	2.44	0.47
5:L:238:LYS:HA	5:L:238:LYS:HD3	1.74	0.47
1:A:154:PRO:HG2	1:A:157:THR:OG1	2.15	0.47
1:A:182:ARG:NH1	1:A:206:GLU:OE1	2.48	0.47
1:A:39:LEU:O	1:A:40:GLY:C	2.53	0.47
1:A:89:ALA:HB3	1:A:125:LYS:HD3	1.96	0.47
1:B:55:ALA:HB2	1:B:176:CYS:O	2.15	0.47
2:C:107:ARG:HA	2:C:108:GLU:HA	1.30	0.47
2:C:61:SER:OG	2:C:66:SER:O	2.23	0.47
2:C:724:VAL:HG23	2:C:775:GLU:O	2.15	0.47
2:C:730:SER:O	2:C:753:LEU:HB2	2.15	0.47
2:C:756:TYR:CE1	2:C:766:ASN:ND2	2.80	0.47
2:C:950:GLU:HA	2:C:953:LEU:HB3	1.97	0.47
3:D:97:VAL:CG1	3:D:101:ARG:CZ	2.84	0.47
3:D:1204:VAL:O	3:D:1204:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1223:LEU:HD22	3:D:1223:LEU:N	2.30	0.47
3:D:26:SER:HG	3:D:29:MET:H	1.58	0.47
3:D:361:LEU:CD2	3:D:366:CYS:HA	2.43	0.47
3:D:657:ALA:O	3:D:661:VAL:HG13	2.14	0.47
2:C:1104:PRO:CG	3:D:725:MET:SD	3.02	0.47
5:F:108:VAL:HG23	5:F:109:GLU:H	1.79	0.47
5:F:402:LEU:H	5:F:402:LEU:CD2	2.27	0.47
5:F:562:ARG:C	5:F:563:PHE:CD1	2.89	0.47
1:G:38:THR:HA	1:H:45:ARG:HH11	1.80	0.47
1:G:79:LEU:HD13	1:G:83:LEU:CD1	2.45	0.47
1:H:43:LEU:HA	1:H:43:LEU:HD12	1.28	0.47
2:I:1151:LEU:C	2:I:1151:LEU:HD13	2.36	0.47
2:I:452:ARG:HH11	2:I:452:ARG:CG	2.12	0.47
2:I:559:CYS:SG	2:I:662:SER:N	2.88	0.47
2:I:797:GLY:HA3	2:I:1232:MET:O	2.15	0.47
3:J:1236:GLU:O	3:J:1239:ASP:HB2	2.15	0.47
3:J:210:SER:HB2	3:J:213:LYS:HG3	1.96	0.47
3:J:339:ARG:HD2	3:J:340:GLN:HG3	1.96	0.47
3:J:578:ILE:O	3:J:581:MET:HB2	2.15	0.47
3:J:698:MET:O	3:J:702:GLN:CB	2.61	0.47
3:J:844:THR:HG23	3:J:864:LEU:CD2	2.41	0.47
3:J:862:THR:O	3:J:864:LEU:HD23	2.15	0.47
5:L:111:LEU:HD23	5:L:111:LEU:HA	1.62	0.47
5:L:254:GLU:OE1	5:L:254:GLU:HA	2.15	0.47
5:L:289:LYS:HE2	5:L:289:LYS:HB3	1.72	0.47
5:L:448:ARG:CD	5:L:450:ILE:HG13	2.34	0.47
1:A:166:ARG:C	1:A:166:ARG:HD2	2.35	0.47
1:A:195:ARG:HD2	1:A:196:THR:H	1.80	0.47
1:A:48:LEU:HD23	1:A:48:LEU:HA	1.53	0.47
1:B:246:LYS:HB3	1:B:246:LYS:HE3	1.62	0.47
1:B:62:ASP:HB3	1:B:142:MET:CE	2.45	0.47
1:B:85:LEU:C	1:B:87:GLY:N	2.68	0.47
2:C:100:LEU:HD23	2:C:100:LEU:HA	1.73	0.47
2:C:332:ARG:C	2:C:333:ILE:HD12	2.35	0.47
2:C:759:SER:CB	2:C:763:THR:HG23	2.44	0.47
2:C:819:SER:C	2:C:821:ARG:N	2.68	0.47
3:D:1225:GLY:O	3:D:1229:VAL:HG12	2.15	0.47
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.97	0.47
3:D:56:LEU:HD23	3:D:269:TYR:HB3	1.96	0.47
3:D:35:PHE:CE1	3:D:101:ARG:CD	2.92	0.47
3:D:385:LEU:HD21	3:D:411:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:527:LEU:HD22	3:D:533:ALA:HA	1.96	0.47
3:D:674:THR:OG1	3:D:677:GLU:HB2	2.15	0.47
3:D:795:TYR:HA	3:D:798:ARG:CZ	2.45	0.47
3:D:817:HIS:O	3:D:845:ALA:HB1	2.15	0.47
3:D:847:ASP:HA	3:D:860:ARG:H	1.78	0.47
4:E:9:ALA:HB2	4:E:55:GLU:HG3	1.96	0.47
5:F:230:VAL:HG13	5:F:231:THR:N	2.30	0.47
5:F:240:ARG:O	5:F:242:HIS:N	2.48	0.47
5:F:548:LEU:HA	5:F:551:LEU:HD12	1.97	0.47
1:H:101:THR:HG23	1:H:116:THR:CB	2.44	0.47
2:I:670:PHE:CE2	2:I:1113:LEU:HB3	2.49	0.47
2:I:1128:ILE:HD13	2:I:1145:ILE:HD11	1.96	0.47
2:I:1210:ILE:HG22	2:I:1211:ARG:H	1.77	0.47
2:I:1234:LYS:HE2	2:I:1238:LEU:CD2	2.42	0.47
2:I:1280:ALA:HB3	3:J:431:ARG:HB2	1.97	0.47
2:I:525:THR:HG21	2:I:687:ARG:HD3	1.98	0.47
3:J:1167:LYS:HD3	3:J:1174:ARG:HD2	1.96	0.47
3:J:155:GLU:HB2	3:J:158:GLN:HB2	1.96	0.47
3:J:474:LEU:HA	3:J:474:LEU:HD13	1.61	0.47
3:J:648:GLU:HG3	3:J:649:LYS:N	2.29	0.47
3:J:824:PRO:HD3	3:J:835:LEU:HD22	1.96	0.47
5:L:264:LYS:HD2	5:L:264:LYS:H	1.79	0.47
1:A:108:GLY:HA2	1:A:109:PRO:HD3	1.59	0.46
1:B:52:PRO:CD	1:B:150:ARG:HG2	2.44	0.46
1:B:63:GLY:N	1:B:71:LYS:HZ1	2.13	0.46
2:C:1088:ASP:OD2	2:C:1092:THR:OG1	2.34	0.46
2:C:1191:LYS:HZ2	2:C:1193:ALA:HB2	1.80	0.46
2:C:830:THR:HG22	2:C:1234:LYS:NZ	2.31	0.46
2:C:1327:LEU:N	2:C:1327:LEU:HD12	2.28	0.46
2:C:268:ARG:HH21	2:C:270:THR:CG2	2.28	0.46
2:C:285:ILE:CD1	2:C:287:VAL:HG12	2.43	0.46
3:D:34:SER:HB2	3:D:103:GLY:O	2.15	0.46
2:C:1335:ILE:HD12	3:D:1336:ALA:CB	2.45	0.46
3:D:256:ASP:C	3:D:258:GLY:H	2.18	0.46
3:D:487:THR:OG1	3:D:488:ASN:OD1	2.30	0.46
3:D:491:LEU:O	3:D:904:ALA:CB	2.64	0.46
3:D:842:ARG:NH2	3:D:884:SER:CB	2.77	0.46
5:F:286:LEU:O	5:F:290:LEU:HG	2.14	0.46
5:F:379:MET:HE2	5:F:379:MET:O	2.15	0.46
5:F:108:VAL:HA	5:F:385:ARG:NH1	2.30	0.46
1:G:90:VAL:HG22	1:G:91:ARG:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:102:LEU:HD22	1:H:103:ASN:N	2.30	0.46
1:H:16:ILE:HG23	1:H:16:ILE:O	2.15	0.46
1:H:47:LEU:HD12	1:H:183:ILE:HG21	1.96	0.46
1:H:69:SER:H	1:H:78:ILE:HD12	1.78	0.46
2:I:1243:MET:SD	3:J:445:LYS:HG2	2.55	0.46
2:I:540:ARG:HE	2:I:568:ASN:HB3	1.80	0.46
2:I:600:THR:HG22	2:I:601:ASP:N	2.30	0.46
2:I:638:SER:O	2:I:640:GLY:N	2.43	0.46
2:I:688:GLN:C	2:I:1235:LEU:HD22	2.35	0.46
2:I:692:THR:HG23	2:I:694:ARG:O	2.14	0.46
2:I:693:LEU:C	2:I:693:LEU:HD23	2.35	0.46
2:I:769:PRO:HA	2:I:784:ALA:HB2	1.97	0.46
3:J:1169:THR:O	3:J:1169:THR:HG22	2.15	0.46
3:J:1191:PRO:C	3:J:1193:TRP:N	2.68	0.46
3:J:1238:GLN:HB2	3:J:1242:ARG:HH21	1.80	0.46
3:J:891:ASP:CG	3:J:1284:ARG:HG2	2.35	0.46
5:L:143:TYR:CE1	5:L:147:GLN:HG3	2.50	0.46
5:L:312:SER:OG	5:L:313:ASP:N	2.49	0.46
5:L:297:MET:HG3	5:L:326:TRP:CZ3	2.50	0.46
1:A:102:LEU:HD11	1:A:110:VAL:HG11	1.97	0.46
1:A:13:LEU:HG	1:A:13:LEU:O	2.15	0.46
1:A:36:GLY:CA	1:A:201:LEU:HD22	2.46	0.46
1:B:116:THR:O	1:B:116:THR:HG23	2.15	0.46
1:B:264:VAL:HA	1:B:267:ALA:CB	2.45	0.46
2:C:1118:GLY:O	2:C:1121:ALA:HB3	2.14	0.46
2:C:1160:ASP:CB	2:C:1161:LEU:HD12	2.43	0.46
2:C:176:ILE:HB	2:C:184:LEU:HB3	1.95	0.46
2:C:180:ARG:CZ	2:C:465:ARG:NH1	2.77	0.46
2:C:563:THR:HG21	2:C:569:ILE:CG2	2.45	0.46
2:C:857:VAL:HG23	2:C:861:ALA:HB3	1.97	0.46
2:C:989:LEU:HD12	2:C:989:LEU:O	2.15	0.46
3:D:1146:GLU:HB3	3:D:1148:ARG:HG3	1.98	0.46
3:D:18:ASP:CB	3:D:1373:ARG:NH2	2.72	0.46
3:D:227:PHE:C	3:D:227:PHE:CD1	2.87	0.46
3:D:279:LEU:HD23	3:D:280:LYS:N	2.29	0.46
3:D:322:ARG:CG	3:D:323:PRO:HD2	2.42	0.46
3:D:265:LEU:HD11	3:D:330:MET:SD	2.55	0.46
3:D:802:ASP:O	3:D:1325:PHE:CE2	2.68	0.46
5:F:117:ILE:O	5:F:120:ALA:N	2.48	0.46
5:F:398:GLY:O	5:F:447:ALA:HB1	2.15	0.46
1:G:166:ARG:NH1	1:G:167:PRO:HA	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:25:LYS:HE3	1:H:202:VAL:CG1	2.45	0.46
2:I:933:VAL:HG22	2:I:1050:VAL:CG1	2.45	0.46
2:I:230:PHE:CD1	2:I:239:MET:HB2	2.51	0.46
2:I:289:VAL:HG22	2:I:322:LEU:CD1	2.45	0.46
2:I:289:VAL:CG1	2:I:319:LEU:HD11	2.38	0.46
2:I:490:GLN:HG3	5:L:472:GLN:HB3	1.97	0.46
2:I:517:GLN:NE2	2:I:759:SER:HA	2.30	0.46
2:I:28:LEU:CD2	2:I:527:LYS:HD2	2.46	0.46
3:J:24:LEU:HD23	3:J:1337:VAL:HA	1.96	0.46
3:J:146:VAL:CG1	3:J:149:GLY:CA	2.93	0.46
3:J:150:GLY:O	3:J:152:THR:N	2.48	0.46
3:J:357:VAL:HG22	3:J:461:PHE:HE1	1.79	0.46
3:J:362:ARG:N	3:J:365:GLN:HE21	2.12	0.46
3:J:37:GLU:HG3	3:J:105:ILE:HA	1.97	0.46
2:I:1289:GLU:OE2	3:J:472:LEU:HB2	2.15	0.46
3:J:514:THR:HG1	3:J:595:ALA:C	2.17	0.46
3:J:536:LEU:O	3:J:539:SER:OG	2.33	0.46
3:J:53:ARG:HA	3:J:54:ASP:HA	1.63	0.46
3:J:686:TRP:O	3:J:689:ALA:N	2.49	0.46
3:J:742:GLY:O	3:J:762:ASN:HB3	2.15	0.46
3:J:770:LEU:O	3:J:774:ILE:HG13	2.16	0.46
3:J:809:VAL:HG12	3:J:911:LYS:HA	1.96	0.46
4:K:51:LEU:O	4:K:54:ILE:N	2.48	0.46
4:K:53:GLU:OE1	4:K:59:ILE:HG13	2.14	0.46
5:L:348:GLU:OE2	5:L:355:ILE:HG12	2.15	0.46
2:C:1211:ARG:O	2:C:1211:ARG:HG3	2.16	0.46
2:C:1217:THR:OG1	2:C:1219:GLU:CG	2.51	0.46
2:C:1237:HIS:N	2:C:1237:HIS:ND1	2.64	0.46
2:C:312:ALA:HB3	2:C:315:MET:HE1	1.96	0.46
2:C:487:LEU:C	2:C:487:LEU:HD23	2.35	0.46
2:C:147:SER:O	2:C:530:ILE:HA	2.15	0.46
2:C:558:VAL:O	2:C:576:SER:OG	2.34	0.46
2:C:633:LEU:N	2:C:633:LEU:HD23	2.30	0.46
2:C:673:HIS:HB3	2:C:1109:ILE:CG2	2.44	0.46
2:C:757:THR:OG1	2:C:758:ARG:N	2.47	0.46
2:C:994:ARG:HA	2:C:997:TRP:CE2	2.50	0.46
3:D:115:TRP:HB3	3:D:1333:THR:HG23	1.98	0.46
3:D:1171:GLY:O	3:D:1193:TRP:CZ3	2.68	0.46
3:D:278:ARG:O	3:D:281:ARG:HB3	2.14	0.46
3:D:339:ARG:CB	3:D:340:GLN:CB	2.93	0.46
3:D:353:SER:O	3:D:465:GLN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:544:LEU:HD13	3:D:575:GLY:HA3	1.95	0.46
3:D:77:ARG:C	3:D:79:LYS:N	2.67	0.46
3:D:880:VAL:HG12	3:D:882:VAL:CG2	2.45	0.46
1:H:60:GLU:HG3	1:H:143:ARG:O	2.15	0.46
1:H:67:GLU:HA	1:H:78:ILE:HG21	1.98	0.46
2:I:160:ASP:HB3	2:I:164:THR:CG2	2.44	0.46
2:I:298:ALA:HB3	2:I:334:GLU:HB3	1.98	0.46
2:I:318:SER:H	2:I:321:LEU:CD1	2.22	0.46
2:I:520:PRO:O	2:I:523:GLU:HB2	2.14	0.46
2:I:844:LYS:HG2	2:I:844:LYS:H	1.39	0.46
2:I:865:LEU:HD13	2:I:869:GLY:HA2	1.97	0.46
3:J:139:LEU:HD23	3:J:139:LEU:HA	1.70	0.46
2:I:1239:VAL:HG21	3:J:445:LYS:HB2	1.97	0.46
3:J:449:LEU:HA	3:J:449:LEU:HD12	1.20	0.46
3:J:820:ILE:O	3:J:881:LYS:HA	2.15	0.46
4:K:77:ALA:C	4:K:79:GLU:H	2.19	0.46
4:K:7:GLN:NE2	4:K:11:GLU:HG2	2.31	0.46
5:L:453:PRO:HB2	5:L:456:MET:HB2	1.96	0.46
5:L:460:ILE:O	5:L:463:LEU:HB2	2.15	0.46
1:A:152:TYR:CD1	2:C:824:GLN:CG	2.96	0.46
1:A:166:ARG:O	1:A:167:PRO:C	2.53	0.46
2:C:106:GLU:O	2:C:109:ALA:HB2	2.14	0.46
2:C:805:MET:CE	2:C:1221:PHE:CE1	2.98	0.46
2:C:641:GLU:OE2	3:D:749:LYS:NZ	2.39	0.46
2:C:665:ALA:C	2:C:667:LEU:N	2.67	0.46
2:C:901:LEU:HD12	2:C:901:LEU:O	2.15	0.46
2:C:903:ARG:CZ	2:C:910:ALA:HB2	2.45	0.46
2:C:971:LEU:HD11	2:C:1014:LEU:O	2.15	0.46
3:D:34:SER:HB2	3:D:104:HIS:HB3	1.97	0.46
3:D:1350:ASN:OD1	3:D:1355:ARG:HD2	2.14	0.46
3:D:221:ILE:O	3:D:224:LEU:N	2.48	0.46
3:D:506:VAL:HG23	3:D:628:GLY:CA	2.36	0.46
3:D:544:LEU:O	3:D:575:GLY:N	2.42	0.46
3:D:573:THR:OG1	3:D:574:VAL:N	2.47	0.46
3:D:597:GLY:H	3:D:599:LYS:HE2	1.80	0.46
3:D:63:GLY:CA	3:D:98:ARG:HG3	2.45	0.46
5:F:576:VAL:C	5:F:577:GLY:O	2.51	0.46
1:G:103:ASN:OD1	1:G:141:SER:HB2	2.16	0.46
1:H:107:ILE:HG13	1:H:107:ILE:H	1.42	0.46
1:H:59:VAL:HG22	1:H:144:ILE:HB	1.96	0.46
2:I:1082:ILE:HD12	2:I:1082:ILE:N	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1281:TYR:HE1	3:J:484:MET:HE2	1.80	0.46
2:I:386:GLU:O	2:I:390:PHE:HB2	2.16	0.46
2:I:529:ARG:C	2:I:530:ILE:HG12	2.36	0.46
2:I:849:GLU:HB3	2:I:851:THR:HG22	1.95	0.46
3:J:1155:ILE:N	3:J:1155:ILE:HD12	2.31	0.46
3:J:1241:TYR:N	3:J:1241:TYR:HD1	2.11	0.46
3:J:1313:SER:C	3:J:1315:ALA:H	2.18	0.46
3:J:288:PRO:HG2	3:J:291:ILE:CG1	2.45	0.46
2:I:810:TYR:CD2	3:J:359:PRO:HG2	2.50	0.46
3:J:814:CYS:SG	3:J:889:ASP:HB3	2.55	0.46
3:J:843:VAL:HG11	3:J:897:HIS:O	2.16	0.46
5:L:344:LEU:HG	5:L:355:ILE:HG13	1.97	0.46
1:B:186:ASN:O	1:B:201:LEU:HD12	2.16	0.46
2:C:1120:ALA:CB	2:C:1198:LEU:HD12	2.45	0.46
2:C:1069:ARG:NH2	2:C:1231:TYR:HB3	2.31	0.46
2:C:1274:GLU:N	2:C:1274:GLU:OE1	2.47	0.46
2:C:180:ARG:HG2	2:C:181:GLY:N	2.30	0.46
2:C:243:PRO:CB	2:C:278:GLU:CG	2.86	0.46
2:C:342:ASP:HB3	2:C:343:HIS:CD2	2.51	0.46
2:C:53:PHE:CE1	2:C:464:PHE:HE2	2.33	0.46
3:D:256:ASP:C	3:D:258:GLY:N	2.69	0.46
3:D:294:ASN:ND2	5:F:406:GLN:NE2	2.64	0.46
3:D:449:LEU:HD12	3:D:449:LEU:HA	1.29	0.46
3:D:695:LYS:HA	3:D:695:LYS:HD3	1.52	0.46
3:D:747:MET:HA	3:D:747:MET:HE3	1.98	0.46
5:F:105:MET:O	5:F:105:MET:HG2	2.15	0.46
1:H:125:LYS:HD3	1:H:128:HIS:HB2	1.96	0.46
2:I:1144:PHE:HE1	2:I:1201:LEU:CD1	2.28	0.46
2:I:1164:PHE:C	2:I:1166:ASP:N	2.67	0.46
2:I:1238:LEU:HD12	2:I:1238:LEU:N	2.18	0.46
2:I:117:ILE:HD12	2:I:488:MET:HG2	1.97	0.46
2:I:670:PHE:HA	2:I:672:GLU:OE2	2.15	0.46
2:I:750:ILE:HG12	2:I:750:ILE:O	2.11	0.46
3:J:1240:VAL:O	3:J:1243:LEU:HB3	2.15	0.46
3:J:134:ASP:HA	3:J:137:ARG:CB	2.45	0.46
3:J:390:LEU:HD12	3:J:390:LEU:H	1.80	0.46
3:J:572:THR:CG2	3:J:573:THR:N	2.78	0.46
3:J:666:GLU:HA	3:J:669:GLN:HB2	1.98	0.46
3:J:739:GLN:HB3	3:J:763:PHE:CE2	2.50	0.46
2:I:673:HIS:CE1	3:J:766:GLY:HA2	2.50	0.46
5:L:343:LYS:HB2	5:L:343:LYS:HE3	1.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LEU:HD22	1:A:103:ASN:H	1.80	0.46
1:B:224:LEU:O	1:B:227:GLN:N	2.47	0.46
2:C:103:VAL:C	2:C:104:ILE:HD12	2.35	0.46
2:C:1272:GLU:HB2	3:D:342:LEU:CD1	2.27	0.46
2:C:157:PHE:C	2:C:442:VAL:HG12	2.36	0.46
2:C:195:PHE:CD1	2:C:203:LYS:CD	2.99	0.46
2:C:22:LEU:HD13	2:C:22:LEU:C	2.36	0.46
2:C:243:PRO:CB	2:C:278:GLU:HG3	2.35	0.46
2:C:289:VAL:HG22	2:C:289:VAL:O	2.15	0.46
2:C:530:ILE:O	2:C:572:ILE:O	2.34	0.46
3:D:1162:ILE:HG23	3:D:1178:THR:O	2.15	0.46
2:C:1323:PHE:HD2	3:D:1352:ILE:HG22	1.79	0.46
3:D:130:MET:HE1	3:D:135:ILE:HG12	1.97	0.46
3:D:146:VAL:O	3:D:147:ILE:HG23	2.16	0.46
3:D:232:ASN:HA	3:D:236:TRP:HZ3	1.80	0.46
2:C:1258:PRO:HB2	3:D:346:ARG:HB3	1.98	0.46
3:D:412:LEU:HD23	3:D:412:LEU:C	2.35	0.46
3:D:478:LEU:HD21	4:E:47:THR:HG23	1.96	0.46
3:D:515:ARG:HG3	3:D:516:ASP:H	1.78	0.46
3:D:570:LYS:HE2	3:D:589:TYR:HB3	1.97	0.46
3:D:589:TYR:C	3:D:591:ILE:H	2.18	0.46
2:C:1109:ILE:HD11	3:D:644:MET:SD	2.55	0.46
3:D:678:ARG:O	3:D:681:LYS:HB3	2.15	0.46
3:D:814:CYS:N	3:D:895:CYS:CB	2.77	0.46
5:F:238:LYS:HA	5:F:238:LYS:HD3	1.75	0.46
5:F:279:ARG:C	5:F:282:THR:HB	2.36	0.46
5:F:343:LYS:HB2	5:F:343:LYS:HE3	1.37	0.46
5:F:575:GLU:N	5:F:578:LYS:HE3	2.31	0.46
5:F:587:ILE:HD12	5:F:590:ILE:CB	2.40	0.46
1:G:108:GLY:HA2	1:G:109:PRO:HD3	1.68	0.46
1:H:89:ALA:HB3	1:H:124:VAL:HG12	1.97	0.46
1:H:95:LYS:NZ	1:H:98:VAL:HG23	2.31	0.46
2:I:545:PHE:CE2	2:I:549:ASP:HB2	2.50	0.46
2:I:839:VAL:HG23	2:I:839:VAL:O	2.16	0.46
2:I:994:ARG:HA	2:I:997:TRP:CD2	2.51	0.46
3:J:1330:ARG:HG2	3:J:1330:ARG:NH1	2.31	0.46
3:J:1344:LEU:HD11	3:J:1355:ARG:NH1	2.30	0.46
3:J:99:ARG:HG3	3:J:249:LEU:CD2	2.45	0.46
3:J:252:LEU:HD23	3:J:262:THR:OG1	2.15	0.46
3:J:382:TYR:CG	3:J:394:ILE:HD13	2.50	0.46
3:J:41:PRO:HD2	3:J:42:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:499:ILE:HD12	3:J:499:ILE:HA	1.58	0.46
3:J:613:GLY:O	3:J:616:PRO:HD2	2.15	0.46
3:J:762:ASN:OD1	3:J:765:GLU:HG3	2.15	0.46
5:L:224:LEU:HA	5:L:255:VAL:CG1	2.40	0.46
5:L:366:SER:O	5:L:369:GLU:HB2	2.16	0.46
5:L:517:SER:C	5:L:518:HIS:HD1	2.17	0.46
5:L:540:LEU:HD12	5:L:540:LEU:HA	1.11	0.46
1:A:86:LYS:O	1:A:86:LYS:HG2	2.15	0.46
1:B:101:THR:O	1:B:116:THR:CG2	2.64	0.46
1:B:202:VAL:O	1:B:203:ILE:HD12	2.15	0.46
1:B:292:THR:O	1:B:294:ASN:N	2.48	0.46
2:C:1259:LEU:HG	2:C:1260:GLY:N	2.30	0.46
2:C:1287:LEU:HD22	3:D:1357:ILE:HD11	1.98	0.46
2:C:388:LEU:HA	2:C:388:LEU:HD23	1.64	0.46
2:C:796:LEU:HD12	2:C:796:LEU:N	2.30	0.46
2:C:903:ARG:O	2:C:905:ILE:N	2.48	0.46
2:C:960:LEU:HD11	2:C:1028:LYS:NZ	2.31	0.46
3:D:1157:ALA:HB3	3:D:1206:ARG:HA	1.96	0.46
3:D:211:GLU:OE2	3:D:214:ARG:NH1	2.49	0.46
3:D:279:LEU:CB	3:D:295:GLU:HG2	2.43	0.46
3:D:603:LYS:O	3:D:607:THR:OG1	2.30	0.46
3:D:620:PHE:O	3:D:624:ILE:HG13	2.16	0.46
3:D:80:HIS:HB3	3:D:83:VAL:CG1	2.31	0.46
4:E:25:ARG:HH11	4:E:64:LEU:HD12	1.81	0.46
5:F:144:LEU:O	5:F:144:LEU:HD12	2.16	0.46
1:G:64:VAL:HG11	1:G:78:ILE:HG13	1.97	0.46
2:I:804:PHE:CE1	2:I:1098:LEU:HD23	2.51	0.46
2:I:1134:GLN:C	2:I:1135:GLN:HG2	2.35	0.46
2:I:131:THR:HG22	2:I:132:ASP:H	1.81	0.46
2:I:136:PHE:CE2	2:I:506:PHE:HE2	2.34	0.46
2:I:531:SER:C	2:I:533:LEU:H	2.19	0.46
2:I:534:GLY:HA3	2:I:535:PRO:HD2	1.66	0.46
2:I:972:PHE:HE2	2:I:998:LEU:HD11	1.76	0.46
3:J:1233:ILE:HG21	3:J:1257:VAL:CG2	2.45	0.46
3:J:1251:LYS:HZ3	3:J:1251:LYS:HG3	1.56	0.46
3:J:1285:VAL:HG12	3:J:1286:LYS:HD3	1.97	0.46
3:J:1298:VAL:HG22	3:J:1298:VAL:O	2.15	0.46
3:J:132:LEU:HD22	3:J:132:LEU:HA	1.62	0.46
3:J:368:LEU:HA	3:J:369:PRO:HD3	1.72	0.46
3:J:810:THR:CG2	3:J:894:VAL:H	2.28	0.46
3:J:921:GLN:O	3:J:924:GLY:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:276:MET:SD	5:L:347:ILE:HG23	2.56	0.46
3:J:291:ILE:HG23	5:L:406:GLN:NE2	2.31	0.46
5:L:511:ILE:HG23	5:L:512:GLY:H	1.80	0.46
5:L:557:LYS:O	5:L:561:MET:HE3	2.16	0.46
1:A:57:THR:HG22	1:A:58:GLU:HG3	1.98	0.46
1:B:97:GLU:HB3	1:B:145:LYS:HZ1	1.80	0.46
2:C:306:THR:OG1	2:C:308:GLU:HB2	2.16	0.46
2:C:314:ASN:ND2	2:C:314:ASN:O	2.48	0.46
2:C:494:ASN:HD21	2:C:496:LYS:HZ2	1.63	0.46
2:C:521:LEU:HD22	2:C:521:LEU:HA	1.51	0.46
2:C:543:ALA:HB1	2:C:547:VAL:HG22	1.97	0.46
2:C:817:LEU:HD21	2:C:1085:MET:HE2	1.96	0.46
2:C:822:VAL:HG12	2:C:823:VAL:N	2.31	0.46
2:C:870:ILE:CG2	2:C:871:VAL:N	2.79	0.46
2:C:898:GLU:H	2:C:898:GLU:CD	2.11	0.46
2:C:942:ASP:O	2:C:946:LEU:HD12	2.16	0.46
3:D:1171:GLY:O	3:D:1193:TRP:HZ3	1.99	0.46
3:D:1184:ASP:N	3:D:1185:PRO:CD	2.76	0.46
3:D:1352:ILE:CD1	8:D:2004:4C4:C7	2.93	0.46
3:D:549:LYS:HG2	3:D:571:ASP:CG	2.36	0.46
3:D:567:THR:CG2	3:D:568:SER:N	2.79	0.46
3:D:850:LYS:HG3	3:D:855:ASP:CB	2.46	0.46
3:D:866:GLU:O	3:D:869:CYS:HB2	2.15	0.46
3:D:71:LEU:CB	3:D:90:VAL:HG21	2.46	0.46
5:F:134:VAL:C	5:F:136:GLU:N	2.68	0.46
5:F:606:VAL:C	5:F:608:ARG:H	2.18	0.46
1:G:127:GLN:H	1:G:127:GLN:CD	2.18	0.46
1:G:152:TYR:HA	1:G:175:ALA:O	2.16	0.46
1:G:219:ARG:O	1:G:222:THR:HB	2.15	0.46
1:G:28:LEU:HD12	1:G:28:LEU:N	2.31	0.46
1:H:47:LEU:HD12	1:H:183:ILE:CG2	2.45	0.46
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.98	0.46
2:I:1120:ALA:HA	2:I:1204:LEU:HD12	1.97	0.46
2:I:174:ALA:O	2:I:186:PHE:N	2.44	0.46
2:I:179:TYR:CD1	2:I:179:TYR:O	2.69	0.46
2:I:272:ARG:O	2:I:276:GLN:HG3	2.15	0.46
2:I:297:VAL:HG12	2:I:315:MET:O	2.16	0.46
2:I:399:ALA:O	2:I:403:MET:HB2	2.16	0.46
2:I:45:GLY:O	2:I:51:ALA:HB2	2.16	0.46
2:I:739:ASP:OD1	2:I:739:ASP:N	2.47	0.46
2:I:798:GLN:HG3	2:I:828:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:799:ASN:C	2:I:799:ASN:HD22	2.16	0.46
2:I:885:GLY:HA2	2:I:917:SER:CB	2.42	0.46
3:J:1167:LYS:HD3	3:J:1174:ARG:HH11	1.80	0.46
3:J:1332:LEU:N	3:J:1332:LEU:HD22	2.29	0.46
3:J:147:ILE:HG22	3:J:188:LEU:HG	1.98	0.46
3:J:154:LEU:N	3:J:154:LEU:HD12	2.31	0.46
3:D:1183:SER:HA	3:J:206:ASN:HD21	1.81	0.46
2:I:1104:PRO:HB2	3:J:732:GLY:HA2	1.97	0.46
3:J:903:LEU:CD2	3:J:905:ARG:HG3	2.46	0.46
3:J:812:ASP:HB2	3:J:911:LYS:HE3	1.97	0.46
3:J:917:VAL:O	3:J:920:ALA:N	2.49	0.46
4:K:58:LEU:CD1	4:K:59:ILE:HG12	2.46	0.46
4:K:56:GLU:HB2	4:K:58:LEU:HG	1.98	0.46
5:L:223:GLU:O	5:L:226:ALA:HB3	2.16	0.46
1:A:46:ILE:N	1:A:46:ILE:HD13	2.31	0.46
1:A:78:ILE:O	1:A:81:ILE:N	2.49	0.46
1:B:101:THR:HA	1:B:143:ARG:HA	1.97	0.46
1:B:38:THR:HG23	1:B:39:LEU:N	2.31	0.46
1:B:82:LEU:HA	1:B:82:LEU:HD23	1.60	0.46
2:C:1043:ALA:O	2:C:1046:VAL:CG1	2.64	0.46
2:C:1078:LYS:CG	2:C:1079:ILE:N	2.78	0.46
2:C:1146:GLN:C	2:C:1146:GLN:HE21	2.13	0.46
2:C:698:PRO:HA	2:C:1231:TYR:CD1	2.51	0.46
2:C:169:LYS:CE	2:C:190:PRO:HA	2.44	0.46
2:C:325:LEU:O	2:C:330:HIS:HB2	2.15	0.46
2:C:358:ASP:OD1	2:C:360:LEU:N	2.48	0.46
2:C:363:LEU:O	2:C:381:ALA:HB1	2.15	0.46
2:C:582:ASN:CB	2:C:586:PHE:N	2.79	0.46
2:C:562:GLU:OE2	2:C:662:SER:HB2	2.15	0.46
2:C:809:GLY:HA2	3:D:629:PHE:CE1	2.51	0.46
3:D:1172:LYS:HZ1	3:D:1191:PRO:HG3	1.80	0.46
3:D:1321:SER:C	3:D:1325:PHE:CE1	2.89	0.46
3:D:224:LEU:H	3:D:224:LEU:HD12	1.81	0.46
3:D:24:LEU:HD22	3:D:24:LEU:N	2.31	0.46
3:D:697:MET:O	3:D:701:LEU:N	2.28	0.46
3:D:824:PRO:HB3	3:D:835:LEU:CB	2.44	0.46
3:D:856:ILE:O	3:D:856:ILE:HG22	2.16	0.46
5:F:433:TRP:HZ3	5:F:434:TRP:CZ2	2.33	0.46
1:G:102:LEU:HB3	1:G:142:MET:HG2	1.97	0.46
1:H:136:GLU:CD	1:H:137:ASN:H	2.19	0.46
2:I:1043:ALA:C	2:I:1046:VAL:HG13	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1080:ASN:OD1	2:I:1081:PRO:HD3	2.16	0.46
2:I:1142:ARG:HH12	2:I:1165:SER:CA	2.14	0.46
2:I:1328:LYS:O	3:J:245:LEU:HD12	2.16	0.46
2:I:14:ASP:OD1	2:I:15:PHE:N	2.49	0.46
2:I:210:LEU:CB	2:I:220:ILE:HD11	2.46	0.46
3:J:1318:SER:CA	3:J:1342:ASP:OD2	2.60	0.46
3:J:527:LEU:N	3:J:527:LEU:HD12	2.30	0.46
3:J:707:ILE:CG2	3:J:708:ASN:H	2.16	0.46
3:J:478:LEU:CD1	4:K:24:ALA:HA	2.46	0.46
4:K:58:LEU:HD12	4:K:59:ILE:HG12	1.97	0.46
5:L:462:LYS:HE3	5:L:487:MET:HE1	1.96	0.46
1:A:153:VAL:HB	1:A:175:ALA:HB3	1.98	0.46
1:A:56:VAL:HG23	1:A:57:THR:N	2.31	0.46
1:B:101:THR:HA	1:B:142:MET:C	2.37	0.46
1:B:107:ILE:HG12	1:B:135:ASP:CA	2.32	0.46
1:B:88:LEU:HD13	1:B:88:LEU:HA	1.82	0.46
2:C:1033:ARG:NH1	2:C:1033:ARG:CG	2.79	0.46
2:C:1066:MET:HE1	2:C:1076:ILE:CG2	2.45	0.46
2:C:15:PHE:CD2	2:C:1190:ALA:HB2	2.50	0.46
2:C:478:ARG:HH12	2:C:482:GLY:N	2.13	0.46
3:D:1238:GLN:HB3	3:D:1242:ARG:NH2	2.24	0.46
3:D:31:ARG:CZ	3:D:241:VAL:HG21	2.45	0.46
3:D:279:LEU:HB2	3:D:295:GLU:CG	2.43	0.46
3:D:289:ASP:O	3:D:293:ARG:HG3	2.16	0.46
3:D:423:LEU:CD1	3:D:468:VAL:CG1	2.93	0.46
3:D:514:THR:OG1	3:D:596:LEU:CD2	2.63	0.46
3:D:648:GLU:HG3	3:D:649:LYS:HG2	1.98	0.46
3:D:825:VAL:HG21	3:D:832:LYS:HB3	1.98	0.46
3:D:833:GLU:HA	3:D:834:PRO:HD3	1.84	0.46
5:F:244:THR:O	5:F:247:GLU:HB2	2.16	0.46
5:F:387:VAL:HG11	5:F:409:ASN:OD1	2.16	0.46
3:D:270:ARG:HH21	5:F:449:THR:HG23	1.77	0.46
1:G:155:ALA:H	1:G:174:ASP:CG	2.19	0.46
1:G:19:VAL:HG22	1:G:20:SER:N	2.30	0.46
1:G:231:PHE:HB2	1:H:218:ARG:HD3	1.97	0.46
1:H:133:LEU:HD21	1:H:140:ILE:HG22	1.98	0.46
1:H:15:ASP:HB3	1:H:27:THR:OG1	2.16	0.46
1:H:153:VAL:CG2	1:H:177:TYR:HE2	2.29	0.46
2:I:1100:PRO:C	2:I:1101:LEU:HD23	2.37	0.46
2:I:159:SER:HA	2:I:172:TYR:CD1	2.49	0.46
2:I:599:VAL:HG21	2:I:623:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1137:GLY:O	3:J:1140:ARG:HB3	2.16	0.46
3:J:127:LEU:HD12	3:J:127:LEU:C	2.35	0.46
3:J:737:ILE:O	3:J:740:LEU:N	2.22	0.46
3:D:1375:ALA:CB	3:J:853:THR:HG21	2.45	0.46
3:J:812:ASP:CB	3:J:911:LYS:HE3	2.46	0.46
5:L:366:SER:HB3	5:L:367:ILE:HD13	1.98	0.46
5:L:572:THR:OG1	5:L:574:GLU:HG2	2.16	0.46
1:B:223:ILE:O	1:B:227:GLN:HG2	2.16	0.45
2:C:1142:ARG:NH2	2:C:1165:SER:HA	2.29	0.45
2:C:1331:ARG:HA	2:C:1335:ILE:O	2.16	0.45
2:C:150:HIS:CE1	2:C:454:ARG:CD	2.98	0.45
2:C:169:LYS:HG2	2:C:170:VAL:O	2.15	0.45
2:C:385:PHE:CE2	2:C:390:PHE:HE2	2.34	0.45
2:C:706:ARG:HG3	2:C:793:GLU:CG	2.39	0.45
2:C:822:VAL:HG23	2:C:1095:ASP:HB3	1.98	0.45
2:C:867:GLU:HG3	2:C:867:GLU:H	1.53	0.45
2:C:82:VAL:HG22	2:C:92:TYR:CE1	2.51	0.45
2:C:974:ARG:HD2	2:C:1014:LEU:HD21	1.98	0.45
3:D:193:ASP:O	3:D:196:GLN:HB2	2.16	0.45
3:D:197:GLU:C	3:D:201:LEU:HG	2.35	0.45
3:D:510:LEU:HD12	3:D:510:LEU:HA	1.49	0.45
3:D:515:ARG:CZ	3:D:719:PHE:CE2	2.96	0.45
3:D:81:ARG:HG2	3:D:81:ARG:H	1.48	0.45
4:E:68:GLU:C	4:E:70:GLN:N	2.69	0.45
5:F:306:PHE:CZ	5:F:310:GLU:HA	2.51	0.45
1:G:14:VAL:CG1	1:G:27:THR:HB	2.38	0.45
1:H:19:VAL:O	1:H:20:SER:HB3	2.16	0.45
1:H:89:ALA:HB1	1:H:210:THR:CG2	2.46	0.45
2:I:805:MET:HA	2:I:1100:PRO:HG3	1.98	0.45
2:I:1209:GLN:HB3	2:I:1224:PRO:HB2	1.98	0.45
2:I:262:TYR:HE1	2:I:280:ASP:OD2	1.98	0.45
3:J:117:LEU:HD23	3:J:118:LYS:HD3	1.98	0.45
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.81	0.45
3:J:1374:ALA:O	3:J:1375:ALA:HB2	2.17	0.45
3:J:419:HIS:CE1	3:J:477:GLN:OE1	2.69	0.45
3:J:536:LEU:HD12	3:J:542:ALA:H	1.80	0.45
3:J:674:THR:CB	3:J:677:GLU:HB2	2.46	0.45
3:J:903:LEU:HD21	3:J:909:ILE:HD12	1.98	0.45
5:L:353:LEU:HB2	5:L:358:VAL:CG1	2.46	0.45
1:B:100:LEU:HD11	1:B:118:ASP:OD2	2.17	0.45
1:B:151:GLY:CA	1:B:177:TYR:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:208:ASN:HD21	1:B:210:THR:CG2	2.30	0.45
2:C:815:SER:CB	2:C:1077:SER:OG	2.59	0.45
2:C:1156:ARG:CB	2:C:1156:ARG:NH1	2.79	0.45
2:C:1210:ILE:O	2:C:1224:PRO:CA	2.64	0.45
2:C:1122:LYS:CG	2:C:1229:TYR:CE1	2.95	0.45
2:C:247:ARG:HB2	2:C:274:ILE:CD1	2.46	0.45
2:C:277:LEU:CA	2:C:280:ASP:HB2	2.45	0.45
2:C:279:LYS:HE3	2:C:279:LYS:HB3	1.76	0.45
2:C:404:LYS:HD2	2:C:404:LYS:HA	1.49	0.45
2:C:421:SER:O	2:C:424:ASP:HB2	2.16	0.45
2:C:714:VAL:HG23	2:C:715:THR:N	2.32	0.45
3:D:23:ALA:HA	3:D:1336:ALA:O	2.16	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:H	1.81	0.45
3:D:202:ARG:O	3:D:205:LEU:HB3	2.16	0.45
2:C:1291:LEU:HB2	3:D:345:LYS:HD2	1.97	0.45
3:D:375:GLU:OE2	3:D:378:LYS:HD2	2.16	0.45
4:E:59:ILE:HG23	4:E:64:LEU:CD2	2.46	0.45
5:F:519:LEU:HD13	5:F:519:LEU:C	2.36	0.45
3:D:399:LYS:NZ	5:F:609:SER:HB2	2.31	0.45
1:H:137:ASN:O	1:H:138:ALA:HB3	2.16	0.45
2:I:834:GLN:HE21	2:I:1056:VAL:HG21	1.82	0.45
2:I:189:ASP:CB	2:I:190:PRO:HD2	2.47	0.45
2:I:295:LYS:O	2:I:317:LEU:HG	2.16	0.45
2:I:371:ARG:O	2:I:374:GLU:HG3	2.15	0.45
2:I:375:PRO:HA	2:I:376:PRO:HD3	1.88	0.45
2:I:389:PHE:CD1	2:I:395:TYR:HE1	2.34	0.45
2:I:43:PRO:O	2:I:44:GLU:HB3	2.15	0.45
2:I:150:HIS:NE2	2:I:452:ARG:HD3	2.30	0.45
2:I:540:ARG:NH2	2:I:568:ASN:ND2	2.65	0.45
2:I:551:HIS:HD1	2:I:553:THR:HG1	1.60	0.45
2:I:896:THR:OG1	2:I:899:GLU:OE2	2.24	0.45
3:J:146:VAL:HG11	3:J:155:GLU:O	2.16	0.45
3:J:181:GLY:O	3:J:183:GLU:N	2.48	0.45
3:J:184:ALA:O	3:J:187:ALA:HB3	2.16	0.45
3:J:106:GLU:OE2	3:J:241:VAL:HG13	2.17	0.45
3:J:396:ALA:O	3:J:400:MET:HG3	2.16	0.45
2:I:1101:LEU:HD13	3:J:730:ALA:HB1	1.98	0.45
3:J:903:LEU:HD11	3:J:909:ILE:HD11	1.98	0.45
5:L:362:ASN:O	5:L:365:MET:HE2	2.16	0.45
5:L:573:LEU:N	5:L:573:LEU:CD2	2.80	0.45
5:L:601:PRO:C	5:L:603:ARG:H	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:162:GLU:HG2	1:A:165:GLU:H	1.82	0.45
1:B:10:LYS:CG	1:B:11:PRO:HD2	2.46	0.45
1:B:59:VAL:HG21	1:B:144:ILE:HD11	1.96	0.45
1:B:44:ARG:O	1:B:46:ILE:N	2.49	0.45
2:C:1222:GLU:O	2:C:1223:ARG:HB2	2.17	0.45
2:C:515:MET:HE3	2:C:517:GLN:HB2	1.97	0.45
2:C:593:LYS:HG3	2:C:595:THR:HG23	1.98	0.45
2:C:614:TYR:CE1	2:C:652:TYR:HE1	2.35	0.45
3:D:1175:LEU:N	3:D:1188:GLU:O	2.42	0.45
3:D:1226:VAL:C	3:D:1228:ALA:H	2.20	0.45
3:D:299:LEU:O	3:D:301:GLU:N	2.49	0.45
3:D:674:THR:CG2	3:D:677:GLU:HB2	2.46	0.45
3:D:825:VAL:HG12	3:D:838:ARG:HH11	1.81	0.45
3:D:822:MET:SD	3:D:838:ARG:HB3	2.57	0.45
5:F:289:LYS:HE2	5:F:289:LYS:HB3	1.80	0.45
5:F:595:LEU:O	5:F:598:LEU:HD23	2.15	0.45
1:G:49:SER:HB3	2:I:1083:GLU:CD	2.37	0.45
1:H:58:GLU:OE2	1:H:145:LYS:HD3	2.17	0.45
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.97	0.45
1:H:61:ILE:HG12	1:H:171:LEU:HD12	1.97	0.45
1:H:89:ALA:HB1	1:H:210:THR:HG22	1.98	0.45
2:I:1152:GLY:O	2:I:1153:ALA:HB2	2.16	0.45
2:I:1122:LYS:HG2	2:I:1229:TYR:CE1	2.51	0.45
2:I:1293:VAL:HG22	2:I:1300:GLY:HA3	1.98	0.45
2:I:189:ASP:HB2	2:I:190:PRO:CD	2.46	0.45
2:I:194:LEU:HD12	2:I:195:PHE:H	1.81	0.45
2:I:18:ARG:HA	2:I:19:PRO:HD3	1.65	0.45
2:I:32:LEU:HD23	2:I:32:LEU:HA	1.56	0.45
2:I:582:ASN:HB2	2:I:586:PHE:O	2.16	0.45
2:I:782:VAL:HG11	2:I:792:GLY:CA	2.47	0.45
2:I:807:TRP:O	2:I:808:ASN:HB2	2.15	0.45
3:J:1174:ARG:HG2	3:J:1189:MET:HG2	1.98	0.45
3:J:1288:ALA:C	3:J:1290:ARG:H	2.20	0.45
3:J:508:LEU:HG	3:J:508:LEU:O	2.14	0.45
3:J:568:SER:OG	3:J:570:LYS:NZ	2.47	0.45
3:J:660:GLU:O	3:J:664:ILE:HG12	2.16	0.45
3:J:810:THR:OG1	3:J:811:GLU:N	2.47	0.45
3:J:825:VAL:HG22	3:J:832:LYS:H	1.81	0.45
3:J:842:ARG:NH2	3:J:884:SER:HB2	2.31	0.45
3:J:872:LEU:HA	3:J:872:LEU:HD23	1.80	0.45
5:L:224:LEU:O	5:L:228:TYR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:353:LEU:HB2	5:L:358:VAL:HG12	1.98	0.45
5:L:414:LYS:HE3	5:L:434:TRP:CE3	2.51	0.45
5:L:491:GLU:O	5:L:494:ILE:N	2.50	0.45
5:L:552:THR:C	5:L:554:ARG:N	2.69	0.45
1:A:207:THR:CG2	1:A:208:ASN:N	2.79	0.45
1:B:125:LYS:O	1:B:128:HIS:CB	2.65	0.45
1:B:59:VAL:HG22	1:B:144:ILE:HD11	1.98	0.45
1:B:301:THR:C	1:B:303:ILE:N	2.69	0.45
2:C:979:LEU:CD1	2:C:1011:LEU:HD11	2.44	0.45
2:C:1036:ILE:HG22	2:C:1037:THR:N	2.31	0.45
2:C:1235:LEU:HD23	2:C:1235:LEU:HA	0.98	0.45
2:C:1293:VAL:HG13	2:C:1301:ARG:N	2.31	0.45
2:C:195:PHE:CG	2:C:203:LYS:HD3	2.52	0.45
2:C:322:LEU:HD23	2:C:322:LEU:HA	1.51	0.45
2:C:480:SER:CB	2:C:481:LEU:HD13	2.47	0.45
2:C:519:ASN:O	2:C:522:SER:HB3	2.16	0.45
2:C:598:VAL:HG13	2:C:627:GLY:O	2.16	0.45
2:C:557:ARG:HE	2:C:608:ALA:HA	1.81	0.45
2:C:706:ARG:NH1	2:C:706:ARG:HG2	2.32	0.45
3:D:185:ILE:HA	3:D:188:LEU:HB2	1.97	0.45
3:D:227:PHE:HD1	3:D:227:PHE:C	2.20	0.45
3:D:385:LEU:HA	3:D:385:LEU:HD23	1.68	0.45
3:D:552:ILE:HD12	3:D:552:ILE:C	2.37	0.45
3:D:85:CYS:SG	3:D:87:LYS:N	2.90	0.45
3:D:97:VAL:O	3:D:100:GLU:N	2.23	0.45
4:E:38:LEU:HD22	4:E:59:ILE:HD11	1.97	0.45
4:E:88:GLU:CA	4:E:88:GLU:OE2	2.63	0.45
5:F:105:MET:C	5:F:105:MET:HE3	2.37	0.45
5:F:227:GLN:HG3	5:F:252:LEU:HB2	1.98	0.45
5:F:355:ILE:O	5:F:358:VAL:HG22	2.16	0.45
5:F:445:ASP:HB2	5:F:451:ARG:NH2	2.32	0.45
5:F:562:ARG:CZ	5:F:573:LEU:CB	2.85	0.45
5:F:595:LEU:N	5:F:595:LEU:CD2	2.76	0.45
1:G:13:LEU:HG	1:G:13:LEU:O	2.17	0.45
1:G:155:ALA:CA	1:G:158:ARG:HG3	2.47	0.45
2:I:3:TYR:CE2	2:I:1158:LYS:HE2	2.52	0.45
2:I:1220:GLN:HG2	2:I:1221:PHE:N	2.31	0.45
2:I:124:MET:HG3	2:I:124:MET:O	2.16	0.45
2:I:545:PHE:CD1	2:I:548:ARG:HB2	2.51	0.45
2:I:559:CYS:HA	2:I:560:PRO:HD3	1.71	0.45
2:I:540:ARG:HE	2:I:568:ASN:CG	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:567:PRO:HD2	2:I:568:ASN:H	1.81	0.45
2:I:739:ASP:OD2	2:I:740:GLU:HG3	2.16	0.45
2:I:790:ASP:N	2:I:793:GLU:O	2.49	0.45
3:J:102:MET:HB3	3:J:244:VAL:O	2.15	0.45
3:J:132:LEU:HD11	3:J:136:GLU:CG	2.37	0.45
3:J:341:ASN:OD1	3:J:342:LEU:N	2.48	0.45
3:J:54:ASP:HB3	3:J:60:ARG:HH11	1.82	0.45
3:J:645:VAL:O	3:J:741:ALA:CB	2.64	0.45
3:J:709:ARG:HG3	3:J:710:ASP:OD2	2.17	0.45
3:J:260:PHE:C	5:L:504:PRO:HG2	2.36	0.45
5:L:552:THR:O	5:L:555:GLU:N	2.49	0.45
1:A:56:VAL:CG2	1:A:57:THR:N	2.78	0.45
1:B:292:THR:HB	1:B:295:LEU:HB3	1.96	0.45
1:B:89:ALA:CB	1:B:124:VAL:N	2.79	0.45
2:C:1101:LEU:HD23	2:C:1101:LEU:HA	1.58	0.45
2:C:1121:ALA:HB2	2:C:1182:ILE:CD1	2.46	0.45
2:C:1222:GLU:O	2:C:1223:ARG:CB	2.64	0.45
2:C:155:VAL:HG23	2:C:176:ILE:CG1	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:CA	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:HA	1.98	0.45
2:C:614:TYR:CD1	2:C:652:TYR:CE1	3.05	0.45
2:C:820:GLU:O	2:C:823:VAL:HG13	2.17	0.45
2:C:967:LEU:HD12	2:C:967:LEU:HA	1.13	0.45
2:C:975:ILE:O	2:C:978:VAL:HB	2.16	0.45
3:D:1187:GLU:HG3	3:D:1187:GLU:O	2.15	0.45
3:D:1226:VAL:HA	3:D:1229:VAL:HG12	1.99	0.45
3:D:128:LEU:C	3:D:130:MET:N	2.70	0.45
3:D:1353:VAL:HG22	3:D:1353:VAL:O	2.16	0.45
3:D:139:LEU:HA	3:D:139:LEU:HD23	1.46	0.45
3:D:253:VAL:O	3:D:260:PHE:HD2	2.00	0.45
3:D:573:THR:HG23	3:D:576:ARG:HG3	1.99	0.45
3:D:644:MET:HE3	3:D:644:MET:HB2	1.81	0.45
3:D:672:LEU:N	3:D:672:LEU:HD12	2.32	0.45
3:D:679:TYR:CD2	3:D:680:ASN:N	2.84	0.45
3:D:890:THR:HG21	3:D:894:VAL:CA	2.47	0.45
5:F:295:CYS:HA	5:F:329:LYS:CB	2.47	0.45
5:F:394:TYR:HB2	5:F:404:LEU:CD2	2.47	0.45
5:F:392:LYS:O	5:F:395:THR:CG2	2.65	0.45
5:F:587:ILE:CD1	5:F:590:ILE:HB	2.41	0.45
1:G:61:ILE:HG23	1:G:142:MET:HB3	1.98	0.45
1:H:81:ILE:HA	1:H:84:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:981:ALA:O	2:I:1002:LEU:HD11	2.16	0.45
2:I:1024:GLU:O	2:I:1027:LYS:HG3	2.17	0.45
2:I:1053:TYR:N	2:I:1053:TYR:CD1	2.84	0.45
2:I:1077:SER:HB3	3:J:356:THR:OG1	2.16	0.45
2:I:1326:LEU:HD11	3:J:331:ILE:HG23	1.98	0.45
2:I:1329:GLU:HA	3:J:245:LEU:HD12	1.95	0.45
2:I:190:PRO:C	2:I:192:ASP:H	2.20	0.45
2:I:198:ILE:O	2:I:201:ARG:HB2	2.17	0.45
2:I:262:TYR:O	2:I:263:VAL:HG23	2.16	0.45
2:I:582:ASN:HB2	2:I:586:PHE:C	2.37	0.45
2:I:614:TYR:C	2:I:638:SER:HG	2.12	0.45
2:I:519:ASN:ND2	2:I:796:LEU:HD23	2.16	0.45
3:J:355:ILE:HG12	3:J:464:ASP:O	2.17	0.45
5:L:477:GLU:HA	5:L:478:PRO:HD3	1.70	0.45
5:L:595:LEU:HD23	5:L:595:LEU:H	1.82	0.45
1:A:153:VAL:O	1:A:175:ALA:N	2.47	0.45
1:B:175:ALA:HB1	1:B:177:TYR:CZ	2.52	0.45
1:B:212:ASP:HB2	1:B:213:PRO:CD	2.47	0.45
2:C:243:PRO:O	2:C:246:LEU:HD12	2.17	0.45
2:C:243:PRO:HG2	2:C:278:GLU:HA	1.99	0.45
2:C:27:LEU:HA	2:C:528:ARG:HH12	1.81	0.45
2:C:857:VAL:CG2	2:C:862:LEU:HD21	2.46	0.45
2:C:896:THR:CB	2:C:897:PRO:HD2	2.46	0.45
2:C:959:ASP:O	2:C:962:GLU:HB2	2.16	0.45
3:D:1165:PHE:CD2	3:D:1175:LEU:CD1	2.96	0.45
3:D:120:LEU:HA	3:D:120:LEU:HD22	1.46	0.45
3:D:1310:THR:HG23	3:D:1311:LYS:N	2.32	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:O	2.17	0.45
3:D:314:ARG:HB3	3:D:314:ARG:NH1	2.31	0.45
2:C:1281:TYR:HD2	3:D:431:ARG:HD2	1.77	0.45
3:D:615:LYS:HG3	3:D:615:LYS:H	1.45	0.45
4:E:50:ALA:O	4:E:53:GLU:HB2	2.17	0.45
5:F:124:GLU:O	5:F:128:ASN:ND2	2.47	0.45
5:F:141:ILE:O	5:F:144:LEU:N	2.50	0.45
5:F:121:LYS:HE2	5:F:421:TYR:CZ	2.51	0.45
5:F:487:MET:C	5:F:489:MET:H	2.20	0.45
1:G:167:PRO:O	1:G:170:ARG:HB2	2.17	0.45
1:G:224:LEU:O	1:G:224:LEU:HD23	2.17	0.45
1:G:41:ASN:HB2	2:I:1218:GLY:HA3	1.99	0.45
1:H:224:LEU:HD12	1:H:224:LEU:C	2.33	0.45
2:I:1294:LYS:HD3	3:J:472:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1323:PHE:CE1	2:I:1327:LEU:HD11	2.51	0.45
2:I:159:SER:O	2:I:160:ASP:CB	2.63	0.45
2:I:600:THR:HG22	2:I:601:ASP:H	1.81	0.45
2:I:676:ALA:HA	2:I:679:ALA:CB	2.47	0.45
2:I:82:VAL:HG22	2:I:92:TYR:CD1	2.52	0.45
3:J:1322:ALA:HA	3:J:1325:PHE:HD2	1.77	0.45
3:J:408:VAL:HG23	3:J:409:TRP:N	2.32	0.45
3:J:515:ARG:HG3	3:J:516:ASP:H	1.82	0.45
3:J:551:ARG:HA	3:J:568:SER:O	2.17	0.45
3:J:674:THR:CG2	3:J:677:GLU:HB2	2.47	0.45
3:J:808:VAL:O	3:J:810:THR:N	2.49	0.45
4:K:10:VAL:HA	4:K:13:ILE:O	2.16	0.45
5:L:459:THR:O	5:L:463:LEU:HD22	2.16	0.45
1:A:208:ASN:CG	1:A:210:THR:HG23	2.36	0.45
1:B:130:ILE:O	1:B:131:CYS:HB3	2.17	0.45
1:B:19:VAL:O	1:B:20:SER:HB3	2.17	0.45
1:B:208:ASN:OD1	1:B:210:THR:N	2.50	0.45
1:B:268:ASN:CG	1:B:271:LYS:HE2	2.37	0.45
1:B:63:GLY:HA3	1:B:71:LYS:NZ	2.31	0.45
2:C:1193:ALA:O	2:C:1196:LYS:N	2.50	0.45
2:C:801:ARG:HD2	2:C:1229:TYR:OH	2.17	0.45
2:C:1280:ALA:HB3	3:D:431:ARG:CB	2.36	0.45
2:C:129:LEU:N	2:C:129:LEU:HD12	2.31	0.45
2:C:262:TYR:OH	2:C:282:VAL:HG21	2.16	0.45
2:C:32:LEU:HD23	2:C:32:LEU:HA	1.07	0.45
2:C:359:ARG:HH12	2:C:378:ARG:HH22	1.65	0.45
2:C:480:SER:OG	2:C:481:LEU:HD13	2.17	0.45
2:C:743:PRO:HG2	2:C:744:GLY:H	1.81	0.45
3:D:1216:ALA:HB3	3:D:1219:ASP:OD2	2.16	0.45
3:D:1280:VAL:CG1	3:D:1284:ARG:HE	2.30	0.45
3:D:1307:LEU:HD12	3:D:1308:GLY:N	2.31	0.45
3:D:1321:SER:C	3:D:1325:PHE:HE1	2.19	0.45
3:D:726:ALA:HA	3:D:731:ARG:O	2.17	0.45
4:E:15:ASN:HB3	4:E:18:ASP:H	1.82	0.45
5:F:295:CYS:CB	5:F:329:LYS:HB2	2.46	0.45
5:F:547:VAL:HG12	5:F:548:LEU:HD23	1.99	0.45
1:G:67:GLU:HG3	1:G:68:TYR:CE2	2.52	0.45
2:I:989:LEU:CD1	2:I:1000:LEU:HD12	2.44	0.45
2:I:1211:ARG:HE	2:I:1220:GLN:HE22	1.63	0.45
2:I:1281:TYR:HE2	3:J:431:ARG:C	2.20	0.45
2:I:397:LEU:O	2:I:398:SER:OG	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:673:HIS:ND1	3:J:765:GLU:O	2.50	0.45
2:I:849:GLU:C	2:I:851:THR:H	2.20	0.45
3:J:1293:GLU:HB3	3:J:1294:ALA:H	1.39	0.45
3:J:1308:GLY:O	3:J:1311:LYS:N	2.50	0.45
3:J:377:PHE:O	3:J:378:LYS:C	2.55	0.45
3:J:385:LEU:HD23	3:J:385:LEU:HA	1.53	0.45
2:I:1075:VAL:HG21	3:J:463:GLY:HA2	1.96	0.45
3:J:610:ARG:HG3	3:J:866:GLU:OE2	2.16	0.45
5:L:243:ALA:O	5:L:246:GLN:HB3	2.17	0.45
5:L:374:ARG:HH11	5:L:374:ARG:HG3	1.82	0.45
5:L:592:ALA:O	5:L:596:ARG:HG2	2.17	0.45
1:B:50:SER:O	1:B:51:MET:HB2	2.16	0.45
1:B:70:THR:OG1	1:B:71:LYS:N	2.49	0.45
2:C:1041:ASP:C	2:C:1042:LEU:HD23	2.37	0.45
2:C:1070:HIS:CD2	2:C:1111:GLN:HA	2.52	0.45
2:C:397:LEU:O	2:C:398:SER:OG	2.18	0.45
2:C:471:VAL:O	2:C:475:VAL:HG23	2.16	0.45
2:C:484:LEU:O	2:C:486:THR:HG22	2.17	0.45
2:C:593:LYS:CA	2:C:652:TYR:CE2	2.97	0.45
2:C:616:ILE:HD12	2:C:616:ILE:N	2.32	0.45
2:C:858:GLY:O	2:C:861:ALA:HB3	2.17	0.45
3:D:155:GLU:HB2	3:D:158:GLN:HB2	1.99	0.45
3:D:473:THR:OG1	3:D:475:GLU:N	2.50	0.45
3:D:537:TYR:CE2	3:D:544:LEU:HD23	2.51	0.45
3:D:579:LEU:HA	3:D:579:LEU:HD12	1.49	0.45
3:D:87:LYS:N	3:D:87:LYS:HD2	2.32	0.45
3:D:903:LEU:C	3:D:905:ARG:N	2.68	0.45
3:D:97:VAL:C	3:D:99:ARG:N	2.69	0.45
5:F:365:MET:O	5:F:369:GLU:N	2.35	0.45
5:F:401:PHE:O	5:F:403:ASP:N	2.50	0.45
3:D:259:ARG:NH1	5:F:502:LYS:HD3	2.32	0.45
5:F:532:LEU:O	5:F:536:THR:CG2	2.61	0.45
5:F:562:ARG:C	5:F:563:PHE:HD1	2.20	0.45
5:F:608:ARG:HG2	5:F:609:SER:N	2.32	0.45
1:G:41:ASN:C	1:G:43:LEU:N	2.70	0.45
1:G:57:THR:HG21	1:G:147:GLN:OE1	2.16	0.45
1:H:121:VAL:HG12	1:H:121:VAL:O	2.16	0.45
2:I:672:GLU:CG	2:I:1187:PHE:HD2	2.30	0.45
2:I:1120:ALA:CB	2:I:1199:LEU:HD23	2.46	0.45
2:I:1213:TYR:CD1	2:I:1220:GLN:HA	2.50	0.45
2:I:130:MET:HA	2:I:136:PHE:HD1	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:468:LEU:O	2:I:471:VAL:N	2.46	0.45
2:I:59:ILE:CD1	2:I:472:GLU:HG3	2.42	0.45
2:I:486:THR:HG23	2:I:487:LEU:H	1.82	0.45
2:I:49:LEU:HD12	2:I:73:TYR:CE2	2.52	0.45
2:I:796:LEU:HB2	2:I:1233:LEU:CD1	2.47	0.45
2:I:811:ASN:O	2:I:1099:ASN:HB2	2.16	0.45
2:I:827:ARG:HB2	2:I:827:ARG:HE	1.41	0.45
2:I:841:ARG:NH1	2:I:841:ARG:HG3	2.32	0.45
2:I:99:LYS:O	2:I:100:LEU:HD23	2.16	0.45
3:J:885:VAL:O	3:J:1258:ARG:HD2	2.17	0.45
3:J:1283:SER:O	3:J:1286:LYS:N	2.47	0.45
3:J:156:ARG:NH1	3:J:157:GLN:HE21	2.10	0.45
3:J:215:LYS:CE	3:J:216:LYS:HG3	2.46	0.45
3:J:252:LEU:HA	3:J:252:LEU:HD23	1.30	0.45
3:J:519:ASN:CG	3:J:709:ARG:HD3	2.37	0.45
3:J:71:LEU:C	3:J:71:LEU:HD13	2.38	0.45
2:I:550:VAL:HG11	3:J:776:THR:HG22	1.98	0.45
3:J:859:PRO:CG	3:J:862:THR:HG21	2.42	0.45
3:J:885:VAL:HG12	3:J:894:VAL:HG11	1.98	0.45
3:J:262:THR:O	5:L:506:SER:HA	2.16	0.45
5:L:587:ILE:O	5:L:590:ILE:HB	2.17	0.45
1:A:118:ASP:OD2	1:A:120:ASP:N	2.48	0.45
1:A:166:ARG:HD2	1:A:167:PRO:HA	1.98	0.45
1:B:92:VAL:HG12	1:B:95:LYS:HB3	1.98	0.45
2:C:1211:ARG:O	2:C:1212:LEU:HD12	2.17	0.45
2:C:510:GLN:OE1	2:C:534:GLY:HA2	2.16	0.45
2:C:524:ILE:HD11	2:C:712:SER:CB	2.46	0.45
2:C:92:TYR:HB2	2:C:137:VAL:HB	1.99	0.45
3:D:1280:VAL:HG13	3:D:1284:ARG:HE	1.82	0.45
2:C:1285:TYR:CE1	3:D:1361:THR:HG21	2.44	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:C8	2.94	0.45
3:D:386:GLU:OE1	3:D:394:ILE:HG22	2.17	0.45
2:C:1240:ASP:HB2	3:D:445:LYS:NZ	2.32	0.45
3:D:819:GLY:HA3	3:D:882:VAL:O	2.17	0.45
4:E:36:ASP:CB	4:E:37:PRO:HD2	2.40	0.45
5:F:460:ILE:CG2	5:F:464:ASN:HD22	2.30	0.45
1:G:182:ARG:C	1:G:183:ILE:HD12	2.37	0.45
1:G:46:ILE:HD11	1:H:38:THR:HG21	1.98	0.45
1:H:185:TYR:HA	1:H:203:ILE:HD12	1.98	0.45
2:I:1054:LEU:HD12	2:I:1054:LEU:HA	1.76	0.45
2:I:202:ARG:HB2	2:I:202:ARG:HH11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:841:ARG:HH11	2:I:841:ARG:HG3	1.82	0.45
2:I:852:ALA:HB2	2:I:869:GLY:CA	2.47	0.45
2:I:905:ILE:HG22	2:I:906:PHE:CD1	2.51	0.45
3:J:833:GLU:HB2	3:J:1242:ARG:HD2	1.98	0.45
3:J:261:ALA:HB2	5:L:505:ILE:CG2	2.47	0.45
3:J:263:SER:HB2	5:L:507:MET:HE2	1.98	0.45
3:J:277:ASN:O	3:J:280:LYS:N	2.50	0.45
3:J:325:LYS:CE	3:J:330:MET:CG	2.87	0.45
3:J:441:LEU:HD13	3:J:441:LEU:HA	1.57	0.45
3:J:363:LEU:HD12	3:J:450:HIS:CE1	2.52	0.45
3:J:81:ARG:HG3	3:J:82:GLY:H	1.80	0.45
3:J:903:LEU:CD1	3:J:909:ILE:CD1	2.95	0.45
3:J:918:ILE:HA	3:J:921:GLN:HG3	1.99	0.45
5:L:367:ILE:HD13	5:L:367:ILE:H	1.81	0.45
5:L:538:GLU:HA	5:L:541:ARG:HG3	1.98	0.45
5:L:595:LEU:N	5:L:595:LEU:HD23	2.32	0.45
1:B:172:LEU:N	1:B:172:LEU:HD12	2.32	0.45
2:C:1083:GLU:H	2:C:1083:GLU:HG3	1.38	0.45
2:C:1293:VAL:HG13	2:C:1300:GLY:C	2.38	0.45
2:C:402:ARG:HH12	2:C:424:ASP:CG	2.20	0.45
2:C:617:ALA:H	2:C:653:MET:HA	1.82	0.45
2:C:680:LEU:HD23	2:C:681:MET:N	2.32	0.45
3:D:1157:ALA:HB3	3:D:1207:GLY:H	1.78	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:H6	2.43	0.45
3:D:227:PHE:CE1	3:D:232:ASN:HB2	2.52	0.45
3:D:112:ALA:N	3:D:300:GLN:OE1	2.27	0.45
2:C:1240:ASP:HB2	3:D:445:LYS:HZ3	1.82	0.45
3:D:595:ALA:O	3:D:596:LEU:HB2	2.16	0.45
3:D:627:THR:CG2	3:D:628:GLY:H	2.29	0.45
3:D:776:THR:O	3:D:777:HIS:C	2.55	0.45
4:E:44:ASP:O	4:E:49:ILE:HG13	2.17	0.45
5:F:384:LEU:HA	5:F:384:LEU:HD23	1.38	0.45
5:F:507:MET:HB2	5:F:507:MET:HE2	1.41	0.45
2:C:901:LEU:HD13	5:F:563:PHE:CE2	2.52	0.45
2:I:1041:ASP:C	2:I:1042:LEU:HD23	2.38	0.45
2:I:346:TYR:OH	2:I:436:ARG:NH1	2.50	0.45
2:I:60:GLN:O	2:I:476:LYS:HE2	2.17	0.45
2:I:673:HIS:O	2:I:1109:ILE:HG22	2.17	0.45
2:I:693:LEU:O	2:I:693:LEU:HD23	2.16	0.45
3:J:1143:ASP:OD1	3:J:1143:ASP:N	2.50	0.45
3:J:1158:GLU:HB3	3:J:1186:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1215:GLU:N	3:J:1215:GLU:OE2	2.50	0.45
3:J:140:TYR:O	3:J:141:PHE:HB2	2.17	0.45
3:J:159:ILE:C	3:J:160:LEU:HD23	2.37	0.45
3:J:749:LYS:CB	3:J:750:PRO:CD	2.95	0.45
3:J:74:LYS:HB3	3:J:75:TYR:CD1	2.52	0.45
5:L:339:ARG:HE	5:L:339:ARG:HB3	1.53	0.45
5:L:345:GLN:O	5:L:348:GLU:HB2	2.16	0.45
5:L:439:ILE:CG1	5:L:440:THR:N	2.77	0.45
5:L:503:GLU:N	5:L:504:PRO:CA	2.80	0.45
5:L:522:PHE:N	5:L:522:PHE:HD1	2.14	0.45
5:L:99:ARG:NH1	5:L:103:ARG:HD2	2.31	0.45
1:A:60:GLU:CD	1:A:143:ARG:HH21	2.21	0.44
1:A:19:VAL:O	1:A:19:VAL:CG2	2.64	0.44
1:B:136:GLU:HG2	1:B:137:ASN:N	2.32	0.44
2:C:1013:GLN:HA	2:C:1016:GLU:CD	2.37	0.44
2:C:1312:ASN:HA	4:E:31:GLN:OE1	2.17	0.44
2:C:1319:MET:HA	2:C:1320:PRO:HD3	1.82	0.44
2:C:165:HIS:HB3	2:C:167:SER:OG	2.16	0.44
2:C:194:LEU:HB3	2:C:206:ALA:HB2	1.99	0.44
2:C:575:LEU:HA	2:C:575:LEU:HD12	1.42	0.44
2:C:670:PHE:HE2	2:C:1113:LEU:O	2.00	0.44
2:C:524:ILE:HD12	2:C:712:SER:HB2	1.96	0.44
2:C:800:MET:CE	2:C:822:VAL:CG2	2.95	0.44
2:C:971:LEU:HD23	2:C:972:PHE:CD2	2.52	0.44
3:D:1282:TYR:O	3:D:1286:LYS:HD2	2.17	0.44
3:D:317:THR:HG21	3:D:320:ASN:OD1	2.17	0.44
3:D:327:LEU:HD23	3:D:327:LEU:N	2.29	0.44
3:D:441:LEU:HD22	3:D:441:LEU:N	2.31	0.44
3:D:583:VAL:HG12	3:D:584:PRO:HD2	1.99	0.44
3:D:585:LYS:O	3:D:587:LEU:N	2.47	0.44
3:D:802:ASP:CG	3:D:1325:PHE:CD2	2.90	0.44
5:F:130:VAL:HG13	5:F:365:MET:CG	2.40	0.44
3:D:42:GLU:CG	5:F:451:ARG:HG3	2.40	0.44
5:F:514:ASP:OD2	5:F:514:ASP:N	2.51	0.44
5:F:589:GLN:OE1	5:F:589:GLN:HA	2.17	0.44
1:G:172:LEU:HD12	1:G:172:LEU:N	2.32	0.44
1:H:57:THR:HG23	1:H:158:ARG:HH21	1.81	0.44
2:I:1029:LEU:HD23	2:I:1030:GLU:N	2.32	0.44
2:I:1213:TYR:HE1	2:I:1220:GLN:HB2	1.82	0.44
2:I:252:SER:O	2:I:253:PHE:HB3	2.18	0.44
2:I:292:ILE:HG21	2:I:322:LEU:HD21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:149:LEU:CD2	2:I:451:ARG:NH1	2.80	0.44
2:I:117:ILE:CD1	2:I:488:MET:HG2	2.48	0.44
2:I:522:SER:HB2	2:I:687:ARG:CB	2.43	0.44
2:I:628:HIS:ND1	2:I:628:HIS:N	2.63	0.44
3:J:1167:LYS:HE2	3:J:1170:LYS:HB2	1.98	0.44
3:J:132:LEU:O	3:J:133:ARG:C	2.55	0.44
2:I:841:ARG:CZ	3:J:256:ASP:HB3	2.46	0.44
3:J:322:ARG:HG3	3:J:323:PRO:CD	2.42	0.44
3:J:430:HIS:HA	3:J:921:GLN:HB3	1.99	0.44
3:J:544:LEU:HD13	3:J:544:LEU:HA	1.59	0.44
3:J:505:ASP:CB	3:J:629:PHE:HE1	2.25	0.44
3:J:834:PRO:O	3:J:838:ARG:CG	2.65	0.44
5:L:372:ALA:O	5:L:375:ALA:HB3	2.18	0.44
5:L:514:ASP:HB3	5:L:517:SER:H	1.83	0.44
5:L:521:ASP:C	5:L:522:PHE:HD1	2.19	0.44
1:A:64:VAL:HG11	1:A:78:ILE:HD11	2.00	0.44
1:A:90:VAL:HG22	1:A:91:ARG:N	2.32	0.44
2:C:1259:LEU:HD12	2:C:1260:GLY:H	1.82	0.44
2:C:16:GLY:HA2	2:C:1188:ASP:CG	2.37	0.44
2:C:378:ARG:CZ	2:C:382:GLU:OE2	2.66	0.44
2:C:59:ILE:CD1	2:C:472:GLU:HA	2.46	0.44
2:C:615:VAL:HG13	2:C:650:VAL:HA	1.99	0.44
2:C:657:THR:OG1	2:C:1187:PHE:HB2	2.18	0.44
2:C:834:GLN:HE21	2:C:1056:VAL:CG2	2.21	0.44
3:D:1157:ALA:HB3	3:D:1206:ARG:CA	2.47	0.44
3:D:160:LEU:HB3	3:D:164:GLN:HB2	1.98	0.44
3:D:199:GLU:HG2	3:D:202:ARG:HE	1.81	0.44
3:D:915:ILE:HA	3:D:918:ILE:CG2	2.44	0.44
5:F:215:GLU:CA	5:F:218:ARG:HD3	2.36	0.44
5:F:561:MET:HG2	5:F:571:TYR:CG	2.52	0.44
5:F:608:ARG:NE	5:F:609:SER:CA	2.80	0.44
1:H:51:MET:HB3	1:H:178:SER:HA	1.99	0.44
2:I:1105:SER:O	2:I:1107:MET:HG3	2.17	0.44
2:I:1341:ASP:HB3	2:I:1342:GLU:H	1.46	0.44
2:I:161:LYS:HZ2	2:I:161:LYS:H	1.63	0.44
2:I:157:PHE:CD1	2:I:174:ALA:HB2	2.52	0.44
2:I:262:TYR:OH	2:I:282:VAL:HG21	2.17	0.44
2:I:92:TYR:HD2	2:I:129:LEU:HB2	1.83	0.44
3:J:1353:VAL:O	3:J:1353:VAL:HG22	2.16	0.44
3:J:222:LYS:HA	3:J:222:LYS:HD3	1.73	0.44
3:J:318:GLY:O	3:J:320:ASN:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:357:VAL:HG12	3:J:359:PRO:HD3	1.99	0.44
3:J:499:ILE:CG2	3:J:500:ILE:HG12	2.47	0.44
3:J:515:ARG:O	3:J:573:THR:HG21	2.17	0.44
3:J:507:VAL:HG11	3:J:598:LYS:CG	2.45	0.44
3:J:672:LEU:HD12	3:J:672:LEU:H	1.81	0.44
3:J:725:MET:O	3:J:728:SER:OG	2.34	0.44
3:J:825:VAL:HG21	3:J:832:LYS:HB3	1.99	0.44
3:J:918:ILE:O	3:J:922:SER:OG	2.22	0.44
4:K:6:VAL:HG23	4:K:6:VAL:O	2.16	0.44
5:L:117:ILE:CG1	5:L:421:TYR:HB2	2.45	0.44
5:L:123:ILE:HG12	5:L:375:ALA:HB3	1.99	0.44
5:L:141:ILE:CG2	5:L:224:LEU:HD21	2.48	0.44
5:L:277:MET:O	5:L:280:VAL:HB	2.17	0.44
5:L:462:LYS:HE3	5:L:487:MET:SD	2.57	0.44
1:A:223:ILE:O	1:A:226:GLU:N	2.50	0.44
1:A:41:ASN:HD21	2:C:1216:ARG:C	2.18	0.44
1:A:79:LEU:C	1:A:79:LEU:HD13	2.37	0.44
1:B:62:ASP:CG	1:B:140:ILE:HD13	2.37	0.44
1:B:179:PRO:HB3	1:B:208:ASN:ND2	2.33	0.44
1:B:290:LEU:O	1:B:291:LYS:HD3	2.17	0.44
2:C:1232:MET:HB3	2:C:1232:MET:HE3	1.72	0.44
2:C:1255:THR:CG2	2:C:1257:GLN:HG3	2.44	0.44
2:C:161:LYS:HG2	2:C:161:LYS:H	1.43	0.44
2:C:324:LYS:HA	2:C:327:GLN:HG3	2.00	0.44
2:C:60:GLN:HB3	2:C:67:GLU:HG3	1.99	0.44
2:C:741:MET:HG2	2:C:974:ARG:NH2	2.32	0.44
2:C:831:ILE:HG23	2:C:832:HIS:N	2.31	0.44
2:C:995:ASP:O	2:C:998:LEU:CD1	2.65	0.44
3:D:1280:VAL:O	3:D:1284:ARG:HD2	2.16	0.44
3:D:1372:ARG:NE	3:J:854:ALA:HB3	2.33	0.44
3:D:355:ILE:HG12	3:D:464:ASP:O	2.17	0.44
3:D:432:LEU:C	3:D:434:ILE:N	2.68	0.44
3:D:627:THR:O	3:D:630:ALA:N	2.51	0.44
3:D:858:VAL:HA	3:D:859:PRO:HD3	1.70	0.44
5:F:463:LEU:CD1	5:F:463:LEU:N	2.80	0.44
2:I:1053:TYR:N	2:I:1053:TYR:HD1	2.14	0.44
2:I:1198:LEU:HD22	2:I:1198:LEU:HA	1.46	0.44
2:I:242:VAL:H	2:I:245:ARG:HD2	1.82	0.44
2:I:421:SER:N	2:I:424:ASP:HB2	2.32	0.44
2:I:805:MET:HE1	2:I:1221:PHE:CD1	2.53	0.44
2:I:813:GLU:HA	2:I:813:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:865:LEU:CD2	2:I:870:ILE:C	2.85	0.44
3:J:1167:LYS:CG	3:J:1174:ARG:HH11	2.31	0.44
3:J:146:VAL:CG1	3:J:149:GLY:HA3	2.47	0.44
3:J:19:ALA:HB2	3:J:1373:ARG:HH22	1.83	0.44
5:L:230:VAL:HG13	5:L:231:THR:N	2.33	0.44
5:L:522:PHE:CD1	5:L:522:PHE:N	2.86	0.44
5:L:559:LEU:HA	5:L:559:LEU:HD23	1.80	0.44
1:A:79:LEU:HA	1:A:79:LEU:HD22	1.72	0.44
1:B:125:LYS:O	1:B:128:HIS:HB2	2.17	0.44
1:B:257:VAL:HB	1:B:260:LEU:HD12	1.98	0.44
2:C:1007:LYS:O	2:C:1010:GLN:N	2.50	0.44
2:C:93:SER:OG	2:C:126:GLU:HB3	2.17	0.44
2:C:273:HIS:HA	2:C:276:GLN:OE1	2.17	0.44
2:C:447:HIS:CG	2:C:553:THR:HG21	2.52	0.44
2:C:470:ARG:CB	2:C:473:ARG:NH1	2.80	0.44
2:C:535:PRO:C	2:C:537:GLY:H	2.20	0.44
2:C:656:SER:OG	2:C:657:THR:N	2.51	0.44
2:C:832:HIS:O	2:C:1056:VAL:N	2.46	0.44
3:D:1151:LYS:HE3	3:D:1151:LYS:HB3	1.75	0.44
3:D:152:THR:OG1	3:D:154:LEU:HD12	2.18	0.44
3:D:244:VAL:HA	3:D:269:TYR:OH	2.17	0.44
3:D:333:GLY:HA3	8:D:2004:4C4:H7	1.99	0.44
3:D:674:THR:N	3:D:677:GLU:OE1	2.48	0.44
3:D:686:TRP:HB3	3:D:758:PRO:HG3	1.98	0.44
3:D:77:ARG:HD2	3:D:78:LEU:H	1.81	0.44
5:F:126:GLY:O	5:F:130:VAL:HG23	2.17	0.44
5:F:550:GLY:O	5:F:551:LEU:HD23	2.17	0.44
2:I:1211:ARG:O	2:I:1212:LEU:HD12	2.16	0.44
2:I:1239:VAL:CG2	3:J:445:LYS:HB3	2.47	0.44
2:I:233:ARG:HH12	2:I:332:ARG:HH22	1.66	0.44
2:I:18:ARG:NH1	2:I:621:SER:H	2.16	0.44
2:I:865:LEU:HD22	2:I:869:GLY:C	2.37	0.44
2:I:944:ARG:O	2:I:944:ARG:HG3	2.17	0.44
3:J:26:SER:OG	3:J:29:MET:N	2.23	0.44
3:J:515:ARG:HG2	3:J:719:PHE:HE2	1.83	0.44
3:J:543:SER:O	3:J:574:VAL:HG21	2.18	0.44
3:J:914:ALA:O	3:J:918:ILE:HG22	2.18	0.44
4:K:42:GLU:C	4:K:44:ASP:N	2.70	0.44
4:K:68:GLU:O	4:K:71:GLU:N	2.50	0.44
5:L:250:LEU:O	5:L:254:GLU:N	2.45	0.44
5:L:268:TYR:O	5:L:271:ASN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:365:MET:HG2	5:L:366:SER:N	2.31	0.44
5:L:411:GLY:C	5:L:435:ILE:HG12	2.38	0.44
5:L:483:LEU:HD21	5:L:487:MET:CE	2.44	0.44
5:L:600:HIS:N	5:L:601:PRO:HD3	2.33	0.44
1:B:183:ILE:CG2	1:B:205:MET:HG3	2.17	0.44
2:C:1033:ARG:NH1	2:C:1033:ARG:HG2	2.23	0.44
2:C:1077:SER:O	2:C:1078:LYS:HB2	2.18	0.44
2:C:1281:TYR:CD2	2:C:1281:TYR:N	2.85	0.44
2:C:207:THR:O	2:C:210:LEU:N	2.30	0.44
2:C:280:ASP:HB3	2:C:282:VAL:HG23	2.00	0.44
2:C:302:ILE:C	2:C:310:ILE:HG13	2.38	0.44
2:C:421:SER:N	2:C:424:ASP:HB2	2.28	0.44
2:C:592:ARG:C	2:C:652:TYR:HD2	2.21	0.44
2:C:854:ILE:HG22	2:C:855:PRO:CD	2.44	0.44
2:C:890:LYS:HE2	2:C:891:GLY:H	1.82	0.44
2:C:93:SER:OG	2:C:126:GLU:OE1	2.36	0.44
3:D:1344:LEU:HD13	3:D:1350:ASN:OD1	2.18	0.44
3:D:1348:LYS:O	3:D:1351:VAL:N	2.50	0.44
3:D:140:TYR:CD2	5:F:100:MET:CE	3.00	0.44
4:E:58:LEU:CD1	4:E:58:LEU:N	2.79	0.44
5:F:234:THR:HB	5:F:245:ALA:CA	2.47	0.44
5:F:290:LEU:C	5:F:294:GLN:HB3	2.38	0.44
5:F:505:ILE:CD1	5:F:506:SER:N	2.81	0.44
5:F:571:TYR:HB3	5:F:576:VAL:HG22	2.00	0.44
5:F:562:ARG:NE	5:F:573:LEU:HB3	2.31	0.44
1:H:39:LEU:O	1:H:40:GLY:C	2.56	0.44
2:I:1084:ASP:N	2:I:1084:ASP:OD1	2.46	0.44
2:I:1085:MET:HA	2:I:1086:PRO:HD3	1.83	0.44
2:I:185:ASP:O	2:I:196:VAL:HG23	2.17	0.44
2:I:322:LEU:HD23	2:I:322:LEU:HA	1.47	0.44
2:I:325:LEU:C	2:I:328:SER:H	2.21	0.44
2:I:354:ASP:HA	2:I:355:PRO:HD2	1.60	0.44
2:I:44:GLU:HA	2:I:54:ARG:HH12	1.82	0.44
2:I:754:THR:O	2:I:767:GLN:HB2	2.18	0.44
2:I:809:GLY:HA2	3:J:629:PHE:CD1	2.52	0.44
3:J:70:CYS:HB3	3:J:75:TYR:HB2	1.99	0.44
3:J:819:GLY:HA2	3:J:882:VAL:O	2.18	0.44
3:J:882:VAL:CG1	3:J:883:ARG:N	2.80	0.44
4:K:10:VAL:HG13	4:K:16:ARG:HA	1.99	0.44
5:L:226:ALA:O	5:L:229:VAL:HG22	2.18	0.44
1:A:37:HIS:NE2	1:A:187:VAL:CG2	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:GLU:HB3	1:B:80:GLU:CG	2.48	0.44
2:C:1024:GLU:HA	2:C:1027:LYS:HG2	2.00	0.44
2:C:1066:MET:N	2:C:1074:GLY:O	2.40	0.44
2:C:1109:ILE:HD12	2:C:1109:ILE:HA	1.83	0.44
2:C:16:GLY:HA2	2:C:1188:ASP:O	2.18	0.44
2:C:18:ARG:N	2:C:1188:ASP:OD2	2.50	0.44
2:C:245:ARG:CG	2:C:245:ARG:HH11	2.30	0.44
2:C:52:ALA:HB2	2:C:461:GLU:HG3	1.99	0.44
2:C:844:LYS:H	2:C:844:LYS:HG2	1.10	0.44
3:D:1193:TRP:C	3:D:1194:ARG:HD2	2.37	0.44
3:D:1198:VAL:HG22	3:D:1199:PHE:N	2.33	0.44
3:D:212:THR:HA	3:D:215:LYS:HZ3	1.81	0.44
3:D:424:ASN:CB	3:D:434:ILE:HG12	2.34	0.44
3:D:38:VAL:HG13	3:D:55:GLY:HA2	1.99	0.44
3:D:573:THR:HG23	3:D:576:ARG:CG	2.47	0.44
3:D:580:TRP:HA	3:D:583:VAL:CG2	2.47	0.44
3:D:514:THR:OG1	3:D:595:ALA:HA	2.18	0.44
3:D:892:PHE:CE1	3:D:1281:GLU:HG2	2.53	0.44
5:F:228:TYR:O	5:F:231:THR:N	2.49	0.44
5:F:343:LYS:O	5:F:346:GLN:HB3	2.17	0.44
5:F:484:ALA:HB2	5:F:494:ILE:CD1	2.37	0.44
5:F:543:ALA:HA	5:F:546:ASP:HB2	2.00	0.44
2:C:901:LEU:CD1	5:F:563:PHE:HE2	2.31	0.44
5:F:561:MET:CG	5:F:571:TYR:CD2	3.01	0.44
5:F:562:ARG:NE	5:F:573:LEU:HG	2.31	0.44
1:G:166:ARG:O	1:G:167:PRO:C	2.56	0.44
1:G:213:PRO:O	1:G:216:ALA:HB3	2.18	0.44
1:G:75:GLN:N	1:G:76:GLU:OE2	2.50	0.44
1:H:13:LEU:O	1:H:13:LEU:HD12	2.17	0.44
1:H:25:LYS:HE3	1:H:202:VAL:HG11	1.99	0.44
2:I:1328:LYS:HD3	2:I:1328:LYS:HA	1.87	0.44
2:I:248:GLY:O	2:I:249:GLU:HG3	2.17	0.44
2:I:298:ALA:HB3	2:I:334:GLU:CB	2.48	0.44
2:I:388:LEU:HA	2:I:388:LEU:HD23	1.54	0.44
2:I:895:LEU:HD13	2:I:900:LYS:CA	2.48	0.44
2:I:731:ARG:NH1	2:I:962:GLU:OE1	2.51	0.44
3:J:185:ILE:HD13	3:J:188:LEU:HD12	2.00	0.44
3:J:195:GLU:HA	3:J:198:CYS:SG	2.58	0.44
3:J:397:ALA:O	3:J:401:VAL:HG13	2.18	0.44
3:J:492:SER:OG	3:J:495:ASN:N	2.49	0.44
3:J:499:ILE:O	3:J:500:ILE:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:525:MET:C	3:J:548:VAL:HG13	2.38	0.44
3:J:583:VAL:CG1	3:J:587:LEU:HB2	2.47	0.44
3:J:674:THR:OG1	3:J:675:ALA:N	2.50	0.44
3:J:842:ARG:NH1	3:J:884:SER:HB2	2.32	0.44
3:J:905:ARG:HD3	4:K:16:ARG:HD2	2.00	0.44
5:L:152:GLU:O	5:L:152:GLU:HG2	2.17	0.44
5:L:380:VAL:HG13	5:L:381:GLU:N	2.32	0.44
2:C:1025:PHE:CD1	2:C:1026:GLU:N	2.86	0.44
2:C:670:PHE:HD1	2:C:1184:THR:HG21	1.81	0.44
2:C:184:LEU:HD12	2:C:185:ASP:N	2.33	0.44
2:C:367:TYR:CE1	2:C:380:ALA:HB1	2.52	0.44
2:C:521:LEU:O	2:C:525:THR:N	2.50	0.44
2:C:727:VAL:HG13	2:C:732:ILE:HG12	1.98	0.44
2:C:788:SER:HB3	2:C:796:LEU:HA	1.99	0.44
2:C:924:VAL:HG12	2:C:1058:ARG:NH2	2.32	0.44
3:D:574:VAL:O	3:D:577:ALA:HB3	2.17	0.44
3:D:59:ALA:HA	3:D:63:GLY:O	2.18	0.44
3:D:806:ASP:HA	3:D:1347:LEU:HD13	1.95	0.44
2:C:1321:GLU:HG2	3:D:99:ARG:HH12	1.81	0.44
5:F:380:VAL:CG1	5:F:381:GLU:N	2.81	0.44
5:F:561:MET:HG3	5:F:571:TYR:HD2	1.82	0.44
5:F:608:ARG:CG	5:F:609:SER:N	2.80	0.44
2:I:1079:ILE:HG23	2:I:1079:ILE:O	2.17	0.44
2:I:1329:GLU:O	2:I:1332:SER:N	2.44	0.44
2:I:131:THR:HG22	2:I:132:ASP:N	2.33	0.44
2:I:317:LEU:HA	2:I:321:LEU:HD13	1.98	0.44
2:I:332:ARG:O	2:I:333:ILE:HG13	2.18	0.44
2:I:301:TYR:HE2	2:I:333:ILE:HG23	1.77	0.44
2:I:487:LEU:C	2:I:487:LEU:HD23	2.37	0.44
2:I:609:ILE:H	2:I:609:ILE:HG12	1.50	0.44
3:J:1173:ARG:N	3:J:1190:ILE:O	2.50	0.44
3:J:1317:GLU:HG2	3:J:1317:GLU:H	1.45	0.44
3:J:145:VAL:O	3:J:178:ALA:HA	2.18	0.44
3:J:859:PRO:O	3:J:862:THR:HG23	2.18	0.44
5:L:143:TYR:HE1	5:L:265:GLN:OE1	2.01	0.44
5:L:297:MET:HE3	5:L:297:MET:HB2	1.90	0.44
5:L:389:SER:OG	5:L:390:ILE:N	2.49	0.44
5:L:448:ARG:HD3	5:L:450:ILE:O	2.18	0.44
5:L:471:LEU:HD23	5:L:471:LEU:HA	1.44	0.44
5:L:587:ILE:HD12	5:L:587:ILE:HA	1.76	0.44
1:A:40:GLY:C	1:A:185:TYR:CE1	2.92	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:GLY:HA3	1:A:185:TYR:CE2	2.53	0.44
1:A:61:ILE:HG23	1:A:61:ILE:HD13	1.60	0.44
1:B:282:VAL:HG22	1:B:316:MET:HG3	2.00	0.44
2:C:1120:ALA:O	2:C:1124:ILE:HG12	2.18	0.44
2:C:118:LYS:O	2:C:119:GLU:C	2.54	0.44
2:C:1065:LYS:HG2	2:C:1235:LEU:HB2	2.00	0.44
2:C:198:ILE:O	2:C:201:ARG:HB2	2.18	0.44
2:C:406:ASN:HB3	2:C:413:GLU:O	2.17	0.44
2:C:478:ARG:HH11	2:C:481:LEU:HD23	1.82	0.44
2:C:517:GLN:O	2:C:517:GLN:HG2	2.18	0.44
2:C:553:THR:HG1	2:C:553:THR:H	1.41	0.44
3:D:1138:LEU:HD12	3:D:1138:LEU:HA	1.56	0.44
3:D:1264:ALA:O	3:D:1278:GLU:N	2.50	0.44
3:D:22:ILE:HG21	3:D:1319:PHE:CE2	2.53	0.44
3:D:252:LEU:HD21	3:D:262:THR:HB	1.93	0.44
3:D:672:LEU:H	3:D:672:LEU:CD1	2.31	0.44
5:F:395:THR:O	5:F:396:ASN:C	2.57	0.44
1:G:121:VAL:HG12	1:G:121:VAL:O	2.18	0.44
1:G:228:LEU:C	1:G:230:ALA:N	2.71	0.44
1:H:178:SER:HA	1:H:179:PRO:HD3	1.70	0.44
1:H:38:THR:HG23	1:H:39:LEU:CG	2.47	0.44
2:I:1033:ARG:O	2:I:1036:ILE:HB	2.18	0.44
2:I:800:MET:O	2:I:1229:TYR:HD2	2.01	0.44
2:I:614:TYR:HD1	2:I:652:TYR:CD1	2.35	0.44
2:I:559:CYS:CB	2:I:662:SER:HB3	2.48	0.44
2:I:692:THR:OG1	2:I:693:LEU:N	2.49	0.44
2:I:696:ASP:OD2	2:I:798:GLN:HA	2.18	0.44
2:I:838:CYS:HB3	2:I:1050:VAL:HG23	2.00	0.44
2:I:964:LEU:HD22	2:I:1025:PHE:CG	2.53	0.44
3:J:1167:LYS:HB2	3:J:1174:ARG:NH1	2.27	0.44
3:J:171:GLU:HB3	3:J:172:PHE:CE2	2.52	0.44
3:J:521:LYS:HB3	3:J:541:LEU:O	2.18	0.44
3:J:513:MET:HE1	3:J:579:LEU:HD13	2.00	0.44
3:J:674:THR:HG23	3:J:677:GLU:CB	2.48	0.44
3:J:762:ASN:OD1	3:J:764:ARG:N	2.49	0.44
3:J:69:GLU:HG3	3:J:76:LYS:HA	1.99	0.44
3:J:905:ARG:NH1	4:K:10:VAL:CG1	2.81	0.44
5:L:108:VAL:HG12	5:L:110:LEU:HG	2.00	0.44
5:L:558:VAL:HG11	5:L:590:ILE:HG22	2.00	0.44
1:A:233:ASP:C	1:A:234:LEU:HG	2.37	0.44
1:B:266:SER:HA	1:B:269:CYS:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:289:LEU:CA	1:B:295:LEU:HD13	2.47	0.44
1:A:45:ARG:NH1	1:B:37:HIS:HB2	2.25	0.44
1:B:9:LEU:HB2	1:B:32:GLU:OE1	2.17	0.44
2:C:105:TYR:CD2	2:C:105:TYR:N	2.85	0.44
2:C:1096:ILE:HG22	2:C:1097:VAL:N	2.33	0.44
2:C:1125:GLY:HA3	2:C:1179:GLY:CA	2.43	0.44
2:C:10:ARG:HD3	2:C:1181:PRO:HG2	1.99	0.44
2:C:129:LEU:O	2:C:136:PHE:HD1	2.01	0.44
2:C:280:ASP:CB	2:C:282:VAL:HG23	2.48	0.44
2:C:377:THR:O	2:C:380:ALA:HB3	2.18	0.44
2:C:478:ARG:C	2:C:480:SER:N	2.70	0.44
2:C:582:ASN:HB3	2:C:585:GLY:CA	2.48	0.44
2:C:704:MET:O	2:C:708:VAL:N	2.44	0.44
2:C:936:ARG:NH1	5:F:495:ARG:NE	2.66	0.44
3:D:1328:THR:O	3:D:1331:VAL:N	2.51	0.44
3:D:133:ARG:HH22	5:F:95:THR:CG2	2.28	0.44
3:D:139:LEU:C	3:D:141:PHE:H	2.20	0.44
3:D:804:ALA:O	3:D:805:GLN:HB3	2.18	0.44
5:F:295:CYS:O	5:F:329:LYS:HG3	2.18	0.44
5:F:438:ALA:O	5:F:442:SER:CB	2.65	0.44
2:I:1116:HIS:HE1	3:J:641:ILE:N	2.13	0.44
2:I:128:PRO:HG2	2:I:506:PHE:CE1	2.52	0.44
2:I:194:LEU:C	2:I:195:PHE:CD2	2.92	0.44
2:I:428:VAL:O	2:I:431:LYS:HB3	2.17	0.44
2:I:478:ARG:HH12	2:I:482:GLY:HA2	1.83	0.44
2:I:18:ARG:CZ	2:I:620:ASN:HA	2.48	0.44
2:I:18:ARG:HH12	2:I:621:SER:H	1.64	0.44
2:I:815:SER:HG	3:J:461:PHE:HD1	1.65	0.44
3:J:1216:ALA:HB3	3:J:1219:ASP:OD2	2.18	0.44
3:J:1266:ILE:HD12	3:J:1274:PHE:HA	2.00	0.44
3:J:188:LEU:O	3:J:191:SER:OG	2.30	0.44
3:J:610:ARG:HG2	3:J:866:GLU:CG	2.43	0.44
3:J:819:GLY:HA3	3:J:882:VAL:O	2.18	0.44
5:L:147:GLN:HE22	5:L:150:ARG:NH1	2.16	0.44
5:L:390:ILE:H	5:L:390:ILE:HG13	1.20	0.44
5:L:577:GLY:O	5:L:581:ASP:N	2.51	0.44
5:L:598:LEU:O	5:L:598:LEU:HD12	2.17	0.44
1:A:54:CYS:SG	1:A:148:ARG:HG3	2.58	0.43
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.98	0.43
1:B:59:VAL:CG1	1:B:144:ILE:HD12	2.48	0.43
2:C:119:GLU:HB2	2:C:489:PRO:CD	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1212:LEU:C	2:C:1221:PHE:HD2	2.21	0.43
2:C:1217:THR:OG1	2:C:1219:GLU:N	2.38	0.43
2:C:1301:ARG:O	2:C:1304:MET:HB3	2.18	0.43
2:C:468:LEU:HD23	2:C:468:LEU:HA	1.24	0.43
2:C:556:GLY:HA2	2:C:659:GLN:O	2.17	0.43
2:C:714:VAL:HG23	2:C:715:THR:H	1.82	0.43
2:C:728:ASP:C	2:C:730:SER:N	2.69	0.43
2:C:746:ALA:CB	2:C:974:ARG:NH2	2.81	0.43
2:C:901:LEU:HG	2:C:905:ILE:HD11	1.99	0.43
3:D:1155:ILE:HD11	3:D:1211:SER:HB3	2.00	0.43
3:D:115:TRP:CZ2	3:D:1329:THR:HG23	2.53	0.43
3:D:1357:ILE:H	3:D:1357:ILE:HG12	1.49	0.43
3:D:378:LYS:HB3	3:D:379:PRO:CD	2.45	0.43
3:D:796:LEU:CD1	3:D:800:LEU:HD11	2.44	0.43
5:F:105:MET:HB3	5:F:105:MET:HE2	1.87	0.43
3:D:291:ILE:CD1	5:F:409:ASN:HB3	2.47	0.43
2:I:1117:LEU:O	2:I:1120:ALA:N	2.51	0.43
2:I:1209:GLN:HA	2:I:1225:VAL:O	2.18	0.43
2:I:298:ALA:N	2:I:334:GLU:O	2.42	0.43
2:I:337:PHE:C	2:I:337:PHE:HD1	2.21	0.43
2:I:377:THR:HG22	2:I:379:GLU:OE2	2.17	0.43
2:I:405:PHE:CE2	2:I:409:LEU:HD13	2.52	0.43
2:I:697:LYS:HE2	2:I:697:LYS:HB3	1.53	0.43
2:I:857:VAL:HG23	2:I:861:ALA:HB3	2.00	0.43
2:I:950:GLU:O	2:I:953:LEU:HB3	2.18	0.43
3:J:1268:ASN:HA	3:J:1274:PHE:CZ	2.53	0.43
3:J:42:GLU:HG2	5:L:451:ARG:CG	2.47	0.43
3:J:450:HIS:HE1	3:J:452:LEU:CD1	2.29	0.43
3:J:580:TRP:HB2	3:J:589:TYR:HE1	1.79	0.43
3:J:614:LEU:O	3:J:617:THR:CB	2.66	0.43
3:J:697:MET:HG3	3:J:698:MET:N	2.33	0.43
3:J:615:LYS:HD3	4:K:7:GLN:HB3	2.00	0.43
5:L:258:GLN:HB2	5:L:259:PHE:HD1	1.83	0.43
5:L:412:LEU:O	5:L:415:ALA:N	2.51	0.43
5:L:439:ILE:O	5:L:443:ILE:HG13	2.18	0.43
1:A:227:GLN:HB3	1:B:39:LEU:HD11	1.99	0.43
1:B:254:LEU:HD23	1:B:254:LEU:HA	1.74	0.43
1:B:92:VAL:HG12	1:B:95:LYS:CB	2.48	0.43
2:C:182:SER:O	2:C:395:TYR:HE1	2.00	0.43
2:C:204:LEU:HD11	2:C:369:MET:CB	2.48	0.43
2:C:288:PRO:HG2	2:C:291:TYR:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:48:GLY:N	2:C:461:GLU:OE1	2.51	0.43
2:C:558:VAL:HG12	2:C:559:CYS:N	2.33	0.43
2:C:557:ARG:NH2	2:C:608:ALA:O	2.50	0.43
2:C:629:PHE:CD2	2:C:634:VAL:HG11	2.54	0.43
2:C:728:ASP:C	2:C:730:SER:H	2.21	0.43
2:C:814:ASP:OD2	2:C:1106:ARG:NH1	2.51	0.43
3:D:1250:ASP:N	3:D:1250:ASP:OD2	2.51	0.43
3:D:1314:LEU:HD13	3:D:1326:GLN:CB	2.48	0.43
3:D:140:TYR:O	3:D:297:ARG:HD3	2.18	0.43
3:D:317:THR:CG2	3:D:320:ASN:CB	2.96	0.43
3:D:369:PRO:HA	3:D:442:ILE:HG22	2.00	0.43
2:C:815:SER:CB	3:D:461:PHE:HD1	2.28	0.43
2:C:812:PHE:HZ	3:D:503:SER:CB	2.31	0.43
3:D:567:THR:HG22	3:D:568:SER:N	2.33	0.43
2:C:1276:TRP:CE2	3:D:801:VAL:HG21	2.53	0.43
4:E:68:GLU:O	4:E:70:GLN:N	2.51	0.43
5:F:143:TYR:CE1	5:F:147:GLN:HG3	2.54	0.43
5:F:484:ALA:CB	5:F:494:ILE:HD12	2.38	0.43
1:G:182:ARG:HG2	1:G:183:ILE:N	2.31	0.43
1:H:103:ASN:ND2	1:H:103:ASN:O	2.51	0.43
1:H:215:GLU:HA	1:H:218:ARG:HG3	2.00	0.43
2:I:1106:ARG:CD	2:I:1106:ARG:N	2.80	0.43
2:I:1214:ASP:OD2	2:I:1216:ARG:NE	2.50	0.43
2:I:157:PHE:HD1	2:I:174:ALA:HB2	1.83	0.43
2:I:310:ILE:CD1	2:I:325:LEU:HB3	2.48	0.43
2:I:374:GLU:HA	2:I:375:PRO:HD3	1.72	0.43
2:I:559:CYS:SG	2:I:662:SER:CB	3.06	0.43
2:I:755:LYS:NZ	2:I:767:GLN:O	2.39	0.43
2:I:814:ASP:O	2:I:816:ILE:HG13	2.18	0.43
2:I:972:PHE:CZ	2:I:998:LEU:HD11	2.53	0.43
3:J:1152:GLU:HA	3:J:1153:PRO:HD3	1.83	0.43
3:J:1252:HIS:O	3:J:1255:VAL:N	2.50	0.43
3:J:288:PRO:HG2	3:J:291:ILE:HG13	1.99	0.43
3:J:306:LEU:HD22	3:J:306:LEU:O	2.19	0.43
3:J:770:LEU:H	3:J:770:LEU:CD1	2.20	0.43
3:J:868:TRP:CE3	3:J:868:TRP:HA	2.53	0.43
1:A:56:VAL:CG2	1:A:173:VAL:CG2	2.96	0.43
1:A:79:LEU:HD13	1:A:79:LEU:O	2.17	0.43
2:C:1289:GLU:HG3	2:C:1290:MET:N	2.28	0.43
2:C:169:LYS:C	2:C:170:VAL:HG13	2.38	0.43
2:C:210:LEU:CB	2:C:220:ILE:CD1	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:39:ILE:O	2:C:39:ILE:HG23	2.18	0.43
2:C:452:ARG:NH1	2:C:584:TYR:O	2.51	0.43
2:C:845:LEU:HD23	2:C:845:LEU:N	2.33	0.43
2:C:848:GLU:HG2	2:C:888:THR:HA	2.00	0.43
3:D:165:TYR:CE2	3:D:178:ALA:HB3	2.53	0.43
3:D:394:ILE:O	3:D:397:ALA:N	2.51	0.43
4:E:6:VAL:HG23	4:E:6:VAL:O	2.18	0.43
4:E:86:ILE:HD13	4:E:86:ILE:N	2.33	0.43
5:F:291:CYS:HG	5:F:315:TRP:HH2	1.62	0.43
5:F:433:TRP:CZ3	5:F:434:TRP:CE2	3.06	0.43
5:F:530:LEU:HB3	5:F:533:ASP:HB2	1.95	0.43
1:G:100:LEU:HD12	1:G:100:LEU:N	2.33	0.43
1:G:83:LEU:HD12	1:G:83:LEU:N	2.32	0.43
1:H:153:VAL:HG21	1:H:158:ARG:NH1	2.33	0.43
1:H:192:VAL:HG13	1:H:193:GLU:N	2.33	0.43
1:H:197:ASP:O	1:H:198:LEU:HD22	2.18	0.43
1:H:211:ILE:HD12	1:H:212:ASP:N	2.34	0.43
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.39	0.43
2:I:377:THR:O	2:I:380:ALA:HB3	2.18	0.43
2:I:404:LYS:HA	2:I:404:LYS:HD2	1.72	0.43
2:I:511:LEU:HD23	2:I:511:LEU:N	2.31	0.43
2:I:81:ASP:OD2	2:I:84:GLU:HG3	2.18	0.43
2:I:5:TYR:CD1	2:I:8:LYS:HD3	2.37	0.43
3:J:1269:ALA:HB3	3:J:1274:PHE:CE1	2.53	0.43
3:J:214:ARG:HD2	3:J:214:ARG:HH11	1.62	0.43
3:J:449:LEU:CD2	3:J:466:MET:SD	3.06	0.43
3:J:501:VAL:HG22	3:J:502:PRO:O	2.18	0.43
3:J:502:PRO:HB3	3:J:506:VAL:CG1	2.49	0.43
3:J:511:TYR:HE2	3:J:727:ASP:HB3	1.83	0.43
3:J:595:ALA:O	3:J:596:LEU:HB2	2.18	0.43
3:J:639:VAL:CG1	3:J:725:MET:HE3	2.49	0.43
5:L:252:LEU:O	5:L:255:VAL:HB	2.19	0.43
5:L:585:GLU:HA	5:L:588:ARG:CG	2.48	0.43
1:A:60:GLU:HB3	1:A:143:ARG:HE	1.83	0.43
1:A:54:CYS:HB3	1:A:148:ARG:HG3	1.99	0.43
1:A:41:ASN:C	1:A:43:LEU:N	2.70	0.43
1:A:96:ASP:HA	1:A:148:ARG:NH1	2.33	0.43
1:B:197:ASP:N	1:B:198:LEU:HD22	2.34	0.43
2:C:1113:LEU:N	2:C:1113:LEU:HD12	2.33	0.43
2:C:1124:ILE:HG21	2:C:1180:MET:HE3	1.96	0.43
2:C:1130:ALA:O	2:C:1133:LYS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1214:ASP:OD1	2:C:1216:ARG:HG3	2.19	0.43
2:C:131:THR:HG22	2:C:132:ASP:H	1.84	0.43
2:C:204:LEU:HA	2:C:205:PRO:HD3	1.81	0.43
2:C:590:PRO:HG3	2:C:605:TYR:OH	2.17	0.43
2:C:644:LEU:C	2:C:645:PHE:HD1	2.22	0.43
2:C:870:ILE:HG22	2:C:944:ARG:NH1	2.31	0.43
3:D:1139:PRO:O	3:D:1142:ALA:N	2.51	0.43
3:D:1257:VAL:O	3:D:1260:MET:N	2.47	0.43
3:D:198:CYS:HA	3:D:201:LEU:HB2	2.00	0.43
3:D:307:LEU:HD23	3:D:307:LEU:HA	1.30	0.43
3:D:473:THR:CG2	3:D:476:ALA:HB2	2.48	0.43
3:D:653:ILE:HA	3:D:656:GLU:HG3	1.99	0.43
3:D:670:SER:HB2	3:D:672:LEU:HD12	1.94	0.43
3:D:795:TYR:O	3:D:795:TYR:HD2	2.01	0.43
5:F:102:MET:O	5:F:105:MET:N	2.51	0.43
5:F:347:ILE:HG22	5:F:351:THR:HG21	1.99	0.43
5:F:108:VAL:HA	5:F:385:ARG:CZ	2.48	0.43
5:F:586:ARG:HA	5:F:586:ARG:HD2	1.80	0.43
1:G:228:LEU:HD22	1:H:224:LEU:HD23	2.00	0.43
1:H:47:LEU:HA	1:H:47:LEU:HD23	1.55	0.43
2:I:221:LEU:HD21	2:I:351:LEU:CD1	2.48	0.43
2:I:564:PRO:HG3	2:I:572:ILE:HG13	2.00	0.43
3:J:1141:VAL:HG22	3:J:1240:VAL:HG21	2.00	0.43
3:J:1257:VAL:O	3:J:1260:MET:HG3	2.19	0.43
3:J:411:ILE:O	3:J:414:GLU:HB2	2.18	0.43
3:J:511:TYR:CE2	3:J:727:ASP:HB3	2.54	0.43
3:J:793:SER:O	3:J:796:LEU:N	2.51	0.43
3:J:907:HIS:N	3:J:907:HIS:ND1	2.67	0.43
3:J:931:THR:O	3:J:1137:GLY:HA3	2.19	0.43
5:L:223:GLU:HG2	5:L:255:VAL:HG13	2.00	0.43
5:L:412:LEU:N	5:L:435:ILE:CG1	2.78	0.43
5:L:494:ILE:HG22	5:L:498:LEU:HD23	2.01	0.43
1:A:57:THR:HG23	1:A:158:ARG:HH22	1.82	0.43
1:A:61:ILE:CG2	1:A:62:ASP:N	2.81	0.43
1:A:96:ASP:OD2	1:A:148:ARG:NH1	2.51	0.43
1:A:225:ALA:HB2	1:B:228:LEU:HD12	2.00	0.43
1:A:44:ARG:NH1	2:C:1087:TYR:CD1	2.86	0.43
2:C:1092:THR:HA	2:C:1093:PRO:HD3	1.90	0.43
2:C:10:ARG:NH2	2:C:790:ASP:OD2	2.51	0.43
2:C:303:ASP:OD1	2:C:305:SER:HB3	2.17	0.43
2:C:469:VAL:O	2:C:472:GLU:HB3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:521:LEU:HD13	2:C:521:LEU:C	2.38	0.43
2:C:884:VAL:O	2:C:917:SER:CB	2.67	0.43
3:D:126:LEU:HD12	3:D:127:LEU:H	1.83	0.43
3:D:199:GLU:O	3:D:202:ARG:HB2	2.19	0.43
3:D:412:LEU:HD23	3:D:413:ASP:N	2.33	0.43
3:D:420:PRO:HB3	3:D:437:PHE:O	2.19	0.43
3:D:491:LEU:HB2	3:D:904:ALA:CA	2.47	0.43
3:D:536:LEU:HA	3:D:536:LEU:HD13	1.54	0.43
3:D:544:LEU:CD1	3:D:575:GLY:HA3	2.49	0.43
3:D:822:MET:O	3:D:879:ALA:HA	2.18	0.43
4:E:29:GLN:O	4:E:35:LYS:N	2.47	0.43
4:E:36:ASP:HB2	4:E:37:PRO:HD3	1.95	0.43
5:F:253:SER:O	5:F:257:LYS:HG3	2.19	0.43
5:F:291:CYS:SG	5:F:315:TRP:HH2	2.42	0.43
1:H:76:GLU:HG3	1:H:80:GLU:CD	2.39	0.43
2:I:1158:LYS:HG3	2:I:1159:VAL:N	2.32	0.43
2:I:145:ILE:HD12	2:I:145:ILE:HA	1.63	0.43
2:I:149:LEU:HA	2:I:149:LEU:HD12	1.78	0.43
2:I:199:ASP:OD1	2:I:199:ASP:N	2.47	0.43
2:I:479:LEU:HA	2:I:479:LEU:HD23	1.39	0.43
2:I:673:HIS:HB3	2:I:1109:ILE:HG21	1.99	0.43
3:J:1169:THR:HG22	3:J:1193:TRP:CH2	2.53	0.43
3:J:1160:SER:N	3:J:1206:ARG:HB3	2.33	0.43
3:J:271:ARG:HB2	3:J:271:ARG:HE	1.04	0.43
2:I:1277:ALA:CA	3:J:431:ARG:HA	2.46	0.43
2:I:1239:VAL:HG21	3:J:445:LYS:O	2.19	0.43
3:J:367:GLY:HA3	3:J:448:GLN:HB2	2.01	0.43
3:J:638:SER:OG	3:J:639:VAL:N	2.52	0.43
3:J:888:CYS:SG	3:J:889:ASP:N	2.91	0.43
4:K:49:ILE:HA	4:K:52:ARG:CD	2.31	0.43
5:L:99:ARG:O	5:L:102:MET:HB2	2.19	0.43
5:L:130:VAL:HA	5:L:133:SER:HB3	2.01	0.43
1:A:44:ARG:CZ	2:C:1087:TYR:CD1	3.02	0.43
1:B:158:ARG:HD2	1:B:158:ARG:HA	1.76	0.43
1:B:290:LEU:HD12	1:B:290:LEU:HA	1.56	0.43
2:C:1128:ILE:CD1	2:C:1145:ILE:HD11	2.47	0.43
2:C:38:PHE:CE1	2:C:49:LEU:CD2	3.02	0.43
2:C:460:ALA:O	2:C:461:GLU:C	2.56	0.43
2:C:97:ARG:NH2	5:F:475:GLY:CA	2.81	0.43
3:D:1167:LYS:HZ1	3:D:1170:LYS:HB2	1.81	0.43
3:D:1225:GLY:O	3:D:1228:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1283:SER:O	3:D:1287:ILE:HG12	2.18	0.43
3:D:1319:PHE:CD1	3:D:1320:ILE:N	2.86	0.43
3:D:245:LEU:CG	3:D:249:LEU:HD12	2.48	0.43
3:D:314:ARG:HH11	3:D:314:ARG:HB3	1.82	0.43
3:D:441:LEU:HA	3:D:441:LEU:HD13	1.27	0.43
3:D:451:PRO:O	3:D:454:CYS:HB2	2.19	0.43
3:D:460:ASP:O	3:D:461:PHE:CD2	2.67	0.43
3:D:587:LEU:HA	3:D:588:PRO:HD2	1.76	0.43
3:D:79:LYS:CG	3:D:80:HIS:N	2.80	0.43
3:D:872:LEU:HD23	3:D:872:LEU:HA	1.73	0.43
5:F:419:PHE:HD1	5:F:430:TYR:CD2	2.37	0.43
1:H:175:ALA:HB1	1:H:177:TYR:CE2	2.54	0.43
1:H:211:ILE:HG13	1:H:216:ALA:HB2	2.01	0.43
2:I:14:ASP:OD1	2:I:1185:PRO:HG3	2.18	0.43
2:I:805:MET:HE2	2:I:1221:PHE:CE1	2.53	0.43
2:I:163:LYS:HE3	2:I:163:LYS:HB3	1.77	0.43
2:I:209:ILE:HA	2:I:212:ALA:HB3	2.01	0.43
2:I:262:TYR:CE1	2:I:282:VAL:HG21	2.54	0.43
2:I:852:ALA:O	2:I:854:ILE:HG13	2.18	0.43
2:I:920:VAL:CG1	2:I:921:PRO:HD2	2.47	0.43
3:J:699:ASP:HA	3:J:702:GLN:HE22	1.82	0.43
3:J:739:GLN:O	3:J:763:PHE:HD2	2.01	0.43
3:D:1372:ARG:HG3	3:J:853:THR:HB	2.01	0.43
5:L:264:LYS:CD	5:L:264:LYS:N	2.81	0.43
5:L:367:ILE:CD1	5:L:367:ILE:N	2.74	0.43
5:L:448:ARG:NH2	5:L:501:ALA:HA	2.33	0.43
5:L:572:THR:HG23	5:L:575:GLU:CB	2.49	0.43
2:I:908:GLU:CD	5:L:608:ARG:HD2	2.39	0.43
5:L:99:ARG:HH12	5:L:103:ARG:HD2	1.83	0.43
1:A:195:ARG:CG	1:A:196:THR:H	2.31	0.43
1:A:61:ILE:CG2	1:A:64:VAL:CG2	2.75	0.43
1:B:106:GLY:O	1:B:133:LEU:HB3	2.19	0.43
2:C:1143:GLU:OE2	2:C:1144:PHE:N	2.52	0.43
2:C:1164:PHE:HD1	2:C:1164:PHE:HA	1.65	0.43
2:C:148:GLN:HG2	2:C:149:LEU:N	2.34	0.43
2:C:210:LEU:CB	2:C:220:ILE:HD11	2.49	0.43
2:C:338:THR:HG21	2:C:345:PRO:CB	2.46	0.43
2:C:28:LEU:CD2	2:C:527:LYS:HD2	2.49	0.43
2:C:148:GLN:HA	2:C:531:SER:O	2.18	0.43
2:C:524:ILE:HD12	2:C:712:SER:HB3	2.00	0.43
2:C:761:GLN:C	2:C:763:THR:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:895:LEU:HD12	2:C:895:LEU:C	2.39	0.43
3:D:123:ARG:HA	3:D:123:ARG:HD3	1.68	0.43
3:D:1307:LEU:HD11	3:D:1311:LYS:HB3	2.00	0.43
3:D:1328:THR:O	3:D:1329:THR:C	2.57	0.43
3:D:218:THR:O	3:D:221:ILE:HG22	2.19	0.43
3:D:294:ASN:HB2	5:F:101:TYR:HD1	1.84	0.43
3:D:622:ASP:HB3	3:D:626:TYR:HE2	1.78	0.43
3:D:81:ARG:HA	3:D:92:VAL:HG22	2.00	0.43
5:F:281:ARG:HB3	5:F:281:ARG:NH1	2.34	0.43
1:G:45:ARG:NH1	1:H:38:THR:N	2.66	0.43
1:H:116:THR:HG23	1:H:116:THR:O	2.19	0.43
1:H:172:LEU:HD12	1:H:172:LEU:N	2.33	0.43
1:H:47:LEU:HD22	1:H:180:VAL:HG11	1.99	0.43
2:I:1048:LYS:O	2:I:1049:ILE:HG13	2.18	0.43
2:I:701:GLY:C	2:I:1183:ALA:HA	2.39	0.43
2:I:1119:MET:CE	2:I:1204:LEU:HD13	2.48	0.43
2:I:1205:PRO:HB2	2:I:1207:SER:OG	2.19	0.43
2:I:337:PHE:C	2:I:337:PHE:CD1	2.92	0.43
2:I:35:PHE:CD2	2:I:130:MET:HB3	2.53	0.43
2:I:624:ASP:C	2:I:625:GLU:HG2	2.38	0.43
3:J:148:GLU:C	3:J:150:GLY:N	2.71	0.43
3:J:334:LYS:O	3:J:1328:THR:OG1	2.30	0.43
3:J:510:LEU:HA	3:J:510:LEU:HD12	1.41	0.43
3:J:537:TYR:C	3:J:539:SER:N	2.72	0.43
3:J:525:MET:O	3:J:548:VAL:HG13	2.18	0.43
3:J:514:THR:CA	3:J:576:ARG:HG2	2.46	0.43
3:J:876:SER:O	3:J:877:VAL:C	2.57	0.43
5:L:228:TYR:CE2	5:L:232:ARG:HB2	2.53	0.43
5:L:253:SER:HA	5:L:256:PHE:HB3	2.01	0.43
5:L:463:LEU:HD12	5:L:487:MET:CE	2.48	0.43
1:A:155:ALA:N	1:A:174:ASP:OD1	2.40	0.43
1:A:185:TYR:HB3	1:A:203:ILE:HG12	2.00	0.43
1:B:62:ASP:H	1:B:142:MET:CE	2.31	0.43
2:C:1021:LEU:O	2:C:1022:LYS:C	2.56	0.43
2:C:1072:ASN:OD1	2:C:1072:ASN:N	2.50	0.43
2:C:138:ILE:CG2	2:C:139:ASN:N	2.81	0.43
2:C:901:LEU:CG	2:C:905:ILE:HD11	2.49	0.43
2:C:933:VAL:C	2:C:934:PHE:HD2	2.22	0.43
3:D:1183:SER:HA	3:J:206:ASN:ND2	2.34	0.43
3:D:1321:SER:O	3:D:1325:PHE:CE1	2.72	0.43
3:D:420:PRO:O	3:D:471:PRO:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:513:MET:CE	3:D:579:LEU:HD13	2.49	0.43
3:D:599:LYS:HG3	3:D:599:LYS:H	1.61	0.43
4:E:38:LEU:N	4:E:38:LEU:HD12	2.34	0.43
5:F:345:GLN:HA	5:F:348:GLU:OE1	2.18	0.43
5:F:466:ILE:HD12	5:F:487:MET:HE2	1.99	0.43
5:F:572:THR:C	5:F:574:GLU:N	2.72	0.43
1:G:228:LEU:O	1:G:228:LEU:HD12	2.18	0.43
2:I:1098:LEU:N	2:I:1098:LEU:HD12	2.33	0.43
2:I:1239:VAL:HG13	2:I:1240:ASP:H	1.84	0.43
2:I:1293:VAL:HG13	2:I:1300:GLY:C	2.38	0.43
2:I:447:HIS:C	2:I:449:GLY:H	2.21	0.43
2:I:499:SER:O	2:I:503:LYS:CB	2.66	0.43
2:I:575:LEU:HD12	2:I:575:LEU:HA	1.44	0.43
2:I:555:TYR:CE1	2:I:637:ARG:CZ	3.02	0.43
2:I:65:ASN:O	2:I:105:TYR:HD2	2.01	0.43
2:I:732:ILE:CD1	2:I:753:LEU:HD21	2.47	0.43
2:I:850:ILE:HG21	2:I:870:ILE:HD11	1.99	0.43
2:I:953:LEU:C	2:I:953:LEU:HD12	2.38	0.43
3:J:164:GLN:O	3:J:168:ALA:N	2.39	0.43
3:J:269:TYR:C	3:J:271:ARG:N	2.71	0.43
3:J:426:ALA:O	3:J:428:THR:N	2.52	0.43
3:J:584:PRO:HG2	3:J:587:LEU:CD1	2.48	0.43
3:J:514:THR:OG1	3:J:595:ALA:O	2.34	0.43
3:J:909:ILE:HD12	3:J:909:ILE:HA	1.62	0.43
5:L:275:VAL:HA	5:L:278:ASP:OD2	2.19	0.43
1:B:232:VAL:O	1:B:233:ASP:HB2	2.19	0.43
1:B:23:HIS:ND1	1:B:206:GLU:HG2	2.34	0.43
1:B:89:ALA:HB3	1:B:124:VAL:N	2.34	0.43
2:C:478:ARG:NH2	2:C:482:GLY:HA2	2.34	0.43
2:C:672:GLU:CD	2:C:672:GLU:H	2.22	0.43
3:D:1163:VAL:HG23	3:D:1175:LEU:HD21	1.93	0.43
3:D:22:ILE:CG2	3:D:1319:PHE:CE2	3.02	0.43
3:D:253:VAL:HA	3:D:254:PRO:HD3	1.90	0.43
3:D:284:ASP:OD1	3:D:284:ASP:N	2.49	0.43
3:D:426:ALA:HB3	3:D:427:PRO:CD	2.48	0.43
3:D:514:THR:HG21	3:D:596:LEU:CB	2.42	0.43
3:D:583:VAL:HA	3:D:584:PRO:HD3	1.90	0.43
3:D:604:MET:HB2	3:D:604:MET:HE3	1.81	0.43
3:D:661:VAL:HG23	3:D:662:ALA:N	2.33	0.43
3:D:912:GLY:O	3:D:1359:ALA:HB1	2.18	0.43
5:F:128:ASN:O	5:F:131:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:562:ARG:CZ	5:F:573:LEU:HG	2.49	0.43
1:H:10:LYS:HA	1:H:11:PRO:HD3	1.77	0.43
1:H:79:LEU:CA	1:H:82:LEU:HG	2.45	0.43
2:I:1204:LEU:HB3	2:I:1205:PRO:HD2	2.01	0.43
2:I:801:ARG:HB2	2:I:1229:TYR:CE2	2.54	0.43
2:I:1285:TYR:HB2	3:J:479:GLU:OE1	2.18	0.43
2:I:1330:ILE:CG2	2:I:1335:ILE:HB	2.49	0.43
2:I:173:ASN:CA	2:I:186:PHE:O	2.67	0.43
2:I:463:GLN:NE2	2:I:501:ALA:C	2.72	0.43
2:I:496:LYS:HD2	2:I:497:PRO:CD	2.48	0.43
2:I:4:SER:N	2:I:7:GLU:HB2	2.31	0.43
2:I:903:ARG:NE	2:I:910:ALA:HB2	2.34	0.43
3:J:1343:GLU:CG	3:J:1373:ARG:NH2	2.78	0.43
3:J:138:VAL:HG11	3:J:145:VAL:HG12	1.99	0.43
3:J:141:PHE:CB	3:J:293:ARG:HD3	2.49	0.43
3:J:252:LEU:HD23	3:J:262:THR:HG1	1.82	0.43
3:J:279:LEU:CB	3:J:295:GLU:HG2	2.49	0.43
3:J:416:ILE:HG12	3:J:441:LEU:CD2	2.48	0.43
3:J:816:THR:OG1	3:J:818:GLU:HB2	2.19	0.43
5:L:130:VAL:O	5:L:134:VAL:N	2.49	0.43
5:L:377:LYS:O	5:L:381:GLU:CG	2.62	0.43
5:L:453:PRO:CB	5:L:455:HIS:CE1	2.98	0.43
1:A:50:SER:HA	1:A:150:ARG:HD2	2.01	0.43
1:A:36:GLY:C	1:A:187:VAL:HG11	2.40	0.43
1:B:10:LYS:HE3	1:B:10:LYS:HB2	1.81	0.43
2:C:1112:ILE:HD11	3:D:639:VAL:CG2	2.49	0.43
2:C:1120:ALA:CB	2:C:1199:LEU:HD23	2.39	0.43
2:C:427:ASP:O	2:C:430:LYS:HB2	2.19	0.43
2:C:59:ILE:HD11	2:C:472:GLU:HA	2.01	0.43
2:C:143:ARG:NH2	2:C:512:SER:OG	2.52	0.43
2:C:566:GLY:HA3	2:C:567:PRO:HD3	1.62	0.43
2:C:671:LEU:HD23	2:C:1186:VAL:CG1	2.49	0.43
2:C:677:ASN:O	2:C:681:MET:HG3	2.19	0.43
2:C:680:LEU:HD23	2:C:680:LEU:C	2.39	0.43
2:C:884:VAL:O	2:C:917:SER:HB2	2.18	0.43
2:C:82:VAL:CG2	2:C:92:TYR:CE1	3.02	0.43
2:C:976:ARG:NH2	2:C:990:ASP:OD2	2.52	0.43
3:D:1158:GLU:HG3	3:D:1186:TYR:CZ	2.54	0.43
3:D:1226:VAL:C	3:D:1228:ALA:N	2.72	0.43
3:D:1297:LYS:N	3:D:1298:VAL:HA	2.33	0.43
3:D:22:ILE:CD1	3:D:1336:ALA:HB2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:24:LEU:HA	3:D:24:LEU:HD13	1.36	0.43
3:D:289:ASP:HA	3:D:292:VAL:CG1	2.40	0.43
3:D:316:ILE:HG13	3:D:317:THR:O	2.18	0.43
3:D:842:ARG:HH22	3:D:884:SER:HB2	1.84	0.43
3:D:903:LEU:HD22	3:D:909:ILE:HD12	1.96	0.43
5:F:574:GLU:C	5:F:578:LYS:HE3	2.40	0.43
1:G:44:ARG:HG3	1:G:183:ILE:HG21	1.98	0.43
1:G:77:ASP:OD1	2:I:729:ALA:HB1	2.19	0.43
1:H:224:LEU:O	1:H:224:LEU:HD12	2.18	0.43
2:I:1156:ARG:NH1	2:I:1156:ARG:HG3	2.34	0.43
1:H:37:HIS:CG	2:I:1216:ARG:HD2	2.52	0.43
2:I:1278:LEU:HD12	2:I:1287:LEU:HB2	2.00	0.43
2:I:127:ILE:O	2:I:127:ILE:HG13	2.19	0.43
2:I:137:VAL:O	2:I:138:ILE:HD12	2.18	0.43
2:I:202:ARG:NH1	2:I:202:ARG:HB2	2.34	0.43
2:I:211:ARG:HD3	2:I:357:ASN:C	2.38	0.43
2:I:285:ILE:HD12	2:I:286:GLU:O	2.19	0.43
2:I:478:ARG:C	2:I:480:SER:N	2.72	0.43
2:I:62:TYR:OH	2:I:476:LYS:HB2	2.19	0.43
2:I:629:PHE:HE2	2:I:650:VAL:HG21	1.78	0.43
2:I:855:PRO:C	2:I:856:ASN:CG	2.78	0.43
2:I:80:PHE:HB2	2:I:85:CYS:SG	2.59	0.43
3:J:326:SER:O	3:J:329:ASP:HB2	2.19	0.43
3:J:461:PHE:C	3:J:463:GLY:H	2.22	0.43
3:J:591:ILE:HG23	3:J:592:VAL:CG1	2.46	0.43
3:J:686:TRP:CE3	3:J:686:TRP:HA	2.54	0.43
3:J:847:ASP:CA	3:J:860:ARG:H	2.32	0.43
4:K:58:LEU:O	4:K:63:ILE:HG21	2.18	0.43
5:L:135:ALA:HA	5:L:256:PHE:CD2	2.54	0.43
5:L:311:THR:O	5:L:341:LEU:HB3	2.19	0.43
5:L:287:ILE:HG21	5:L:315:TRP:CH2	2.53	0.43
1:A:156:SER:C	1:A:158:ARG:N	2.71	0.42
1:B:104:LYS:HG2	1:B:110:VAL:CG1	2.49	0.42
1:B:145:LYS:CG	1:B:146:VAL:N	2.81	0.42
1:B:16:ILE:CD1	1:B:214:GLU:HG3	2.48	0.42
1:B:304:LYS:HE3	1:B:304:LYS:HB2	1.39	0.42
2:C:1029:LEU:O	2:C:1032:LYS:N	2.51	0.42
2:C:811:ASN:HD22	2:C:1099:ASN:N	2.15	0.42
2:C:1164:PHE:HB2	2:C:1168:GLU:CG	2.48	0.42
2:C:209:ILE:C	2:C:212:ALA:HB3	2.39	0.42
2:C:319:LEU:O	2:C:319:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:ALA:HB2	2:C:432:LEU:HD22	2.01	0.42
2:C:572:ILE:O	2:C:573:ASN:CB	2.62	0.42
1:A:83:LEU:HB3	2:C:694:ARG:HH21	1.84	0.42
2:C:696:ASP:O	2:C:697:LYS:HB3	2.19	0.42
2:C:805:MET:O	2:C:805:MET:HG3	2.18	0.42
3:D:1143:ASP:OD1	3:D:1143:ASP:N	2.52	0.42
3:D:1156:LEU:HG	3:D:1224:ARG:NH2	2.32	0.42
3:D:1250:ASP:O	3:D:1251:LYS:C	2.57	0.42
3:D:193:ASP:CB	3:D:196:GLN:HG2	2.46	0.42
3:D:62:PHE:CG	3:D:247:PRO:CD	3.02	0.42
3:D:262:THR:N	5:F:507:MET:HG3	2.34	0.42
3:D:285:LEU:N	3:D:285:LEU:HD12	2.34	0.42
3:D:580:TRP:HA	3:D:583:VAL:HG23	2.01	0.42
3:D:704:GLU:O	3:D:704:GLU:HG3	2.19	0.42
3:D:706:VAL:HG12	3:D:715:LYS:HE2	2.01	0.42
3:D:795:TYR:O	3:D:795:TYR:CD2	2.72	0.42
3:D:97:VAL:HB	3:D:101:ARG:HG3	2.01	0.42
5:F:440:THR:CG2	5:F:441:ARG:N	2.79	0.42
5:F:488:LEU:O	5:F:488:LEU:HD23	2.19	0.42
1:H:153:VAL:HG21	1:H:177:TYR:HE2	1.84	0.42
2:I:154:GLY:HA3	2:I:404:LYS:HB2	2.01	0.42
2:I:558:VAL:HG12	2:I:559:CYS:N	2.33	0.42
2:I:606:LEU:HD23	2:I:611:GLU:CA	2.49	0.42
2:I:681:MET:O	2:I:685:MET:HG3	2.19	0.42
1:G:152:TYR:CZ	2:I:824:GLN:HA	2.54	0.42
2:I:82:VAL:O	2:I:86:GLN:N	2.51	0.42
3:J:137:ARG:HD3	3:J:143:SER:OG	2.18	0.42
2:I:1290:MET:O	3:J:347:VAL:HG21	2.19	0.42
3:J:378:LYS:HA	3:J:381:ILE:HD12	2.00	0.42
2:I:1289:GLU:OE2	3:J:473:THR:HG22	2.18	0.42
3:J:491:LEU:O	3:J:492:SER:C	2.58	0.42
3:J:523:GLU:OE2	3:J:547:ARG:HD2	2.19	0.42
3:J:594:GLN:HB2	3:J:595:ALA:H	1.63	0.42
2:I:809:GLY:HA2	3:J:629:PHE:CE1	2.54	0.42
3:J:868:TRP:O	3:J:872:LEU:HB2	2.19	0.42
3:J:814:CYS:SG	3:J:888:CYS:SG	3.16	0.42
3:J:866:GLU:CD	3:J:901:ARG:HH22	2.22	0.42
3:J:809:VAL:CG1	3:J:911:LYS:HA	2.48	0.42
5:L:130:VAL:HA	5:L:133:SER:HB2	1.99	0.42
1:A:108:GLY:O	1:A:133:LEU:HB2	2.19	0.42
2:C:1109:ILE:HD11	3:D:644:MET:CE	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1180:MET:HA	2:C:1181:PRO:HD3	1.49	0.42
2:C:209:ILE:HG12	2:C:209:ILE:O	2.17	0.42
2:C:318:SER:OG	2:C:320:ASP:OD2	2.25	0.42
2:C:364:VAL:O	2:C:367:TYR:N	2.51	0.42
2:C:638:SER:HB3	2:C:639:LYS:H	1.70	0.42
2:C:670:PHE:HE2	2:C:1113:LEU:C	2.23	0.42
2:C:761:GLN:C	2:C:763:THR:N	2.72	0.42
2:C:775:GLU:HA	2:C:776:PRO:HD3	1.73	0.42
2:C:842:ASP:HB2	2:C:1045:GLY:O	2.20	0.42
2:C:994:ARG:HG2	2:C:997:TRP:CZ2	2.54	0.42
3:D:1173:ARG:NH2	3:D:1192:LYS:HB3	2.34	0.42
3:D:1280:VAL:HG21	3:D:1304:ARG:CZ	2.49	0.42
3:D:1285:VAL:O	3:D:1288:ALA:HB3	2.19	0.42
3:D:1328:THR:HG22	3:D:1329:THR:N	2.34	0.42
3:D:1340:LYS:HG2	3:D:1341:ARG:N	2.34	0.42
3:D:268:LEU:CD2	3:D:305:ALA:C	2.87	0.42
3:D:278:ARG:NH1	3:D:298:MET:HE1	2.34	0.42
3:D:425:ARG:HH11	3:D:459:ALA:HB2	1.83	0.42
3:D:491:LEU:O	3:D:904:ALA:CA	2.67	0.42
3:D:514:THR:HA	3:D:576:ARG:HG2	2.00	0.42
3:D:750:PRO:C	3:D:752:GLY:N	2.72	0.42
3:D:751:ASP:HB3	3:D:753:SER:HB3	2.00	0.42
3:D:812:ASP:CA	3:D:911:LYS:HE3	2.49	0.42
4:E:39:VAL:HG13	4:E:40:PRO:N	2.34	0.42
2:I:548:ARG:O	3:J:780:ARG:NH1	2.47	0.42
2:I:633:LEU:CD2	2:I:633:LEU:N	2.79	0.42
2:I:732:ILE:HG21	2:I:783:LEU:HD12	2.01	0.42
2:I:816:ILE:CG2	2:I:817:LEU:N	2.83	0.42
2:I:908:GLU:OE2	5:L:608:ARG:HD2	2.19	0.42
2:I:971:LEU:O	2:I:1014:LEU:HD23	2.19	0.42
3:J:130:MET:HE2	3:J:135:ILE:HG12	2.00	0.42
3:J:24:LEU:HD21	3:J:1337:VAL:HG12	2.01	0.42
3:J:309:ASN:N	3:J:326:SER:OG	2.47	0.42
3:J:363:LEU:C	3:J:365:GLN:H	2.21	0.42
3:J:423:LEU:HD11	3:J:447:ILE:HD13	2.00	0.42
3:J:71:LEU:C	3:J:71:LEU:HD22	2.38	0.42
3:J:903:LEU:HD22	3:J:909:ILE:HD12	2.01	0.42
5:L:123:ILE:C	5:L:127:ILE:HG12	2.38	0.42
5:L:324:LYS:HB2	5:L:327:SER:OG	2.19	0.42
5:L:470:MET:HB3	5:L:470:MET:HE2	1.75	0.42
1:A:155:ALA:CB	1:A:174:ASP:OD1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:16:ILE:HG12	1:B:16:ILE:O	2.19	0.42
1:B:77:ASP:OD1	1:B:77:ASP:N	2.50	0.42
2:C:979:LEU:HD21	2:C:1000:LEU:HD12	2.00	0.42
2:C:1148:ALA:C	2:C:1150:ASP:N	2.73	0.42
2:C:1159:VAL:HB	2:C:1160:ASP:H	1.55	0.42
2:C:1233:LEU:N	2:C:1233:LEU:CD1	2.82	0.42
2:C:184:LEU:HD12	2:C:185:ASP:H	1.84	0.42
2:C:230:PHE:CZ	2:C:292:ILE:HD11	2.54	0.42
2:C:325:LEU:HB2	2:C:330:HIS:CD2	2.54	0.42
2:C:484:LEU:HB2	2:C:485:ASP:H	1.44	0.42
3:D:37:GLU:CB	3:D:104:HIS:CE1	2.98	0.42
3:D:117:LEU:HG	3:D:117:LEU:O	2.20	0.42
3:D:1219:ASP:HA	3:D:1222:ARG:HH21	1.84	0.42
3:D:1262:ARG:HH22	3:D:1312:ALA:CB	2.26	0.42
3:D:1145:PHE:HB2	3:D:1309:ILE:HD11	2.00	0.42
3:D:1368:ASP:HA	3:D:1371:ARG:NH2	2.32	0.42
3:D:144:TYR:CE2	3:D:180:MET:SD	3.12	0.42
3:D:265:LEU:HA	3:D:265:LEU:HD23	1.65	0.42
3:D:291:ILE:O	3:D:294:ASN:HB3	2.20	0.42
2:C:1308:ILE:CG2	3:D:380:PHE:CD2	3.02	0.42
3:D:795:TYR:CE2	3:D:799:ARG:CD	3.02	0.42
3:D:84:ILE:HD12	3:D:85:CYS:O	2.19	0.42
5:F:339:ARG:HE	5:F:339:ARG:HB3	1.57	0.42
5:F:574:GLU:HA	5:F:574:GLU:OE2	2.19	0.42
1:G:123:ILE:HD13	1:G:123:ILE:N	2.35	0.42
1:G:166:ARG:O	1:G:166:ARG:HD2	2.18	0.42
1:G:29:GLU:CD	1:G:200:LYS:HE2	2.38	0.42
1:H:144:ILE:HG13	1:H:145:LYS:N	2.34	0.42
2:I:170:VAL:HG21	2:I:172:TYR:OH	2.19	0.42
2:I:356:THR:HG21	2:I:362:ALA:HA	2.02	0.42
2:I:368:ARG:O	2:I:372:PRO:CB	2.67	0.42
2:I:35:PHE:O	2:I:38:PHE:CB	2.67	0.42
2:I:845:LEU:N	2:I:845:LEU:HD23	2.34	0.42
2:I:927:THR:O	2:I:1055:ALA:N	2.33	0.42
3:J:120:LEU:CB	3:J:121:PRO:CD	2.82	0.42
3:J:1284:ARG:NH1	3:J:1288:ALA:HB2	2.22	0.42
3:J:1307:LEU:HA	3:J:1307:LEU:HD12	1.54	0.42
3:J:152:THR:OG1	3:J:153:ASN:N	2.49	0.42
3:J:238:ILE:HD13	3:J:238:ILE:HA	1.71	0.42
2:I:1075:VAL:CG2	3:J:463:GLY:N	2.82	0.42
3:J:490:ILE:O	3:J:490:ILE:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:544:LEU:HD12	3:J:575:GLY:HA2	2.01	0.42
4:K:20:VAL:O	4:K:24:ALA:HB2	2.18	0.42
5:L:227:GLN:C	5:L:230:VAL:HG12	2.40	0.42
5:L:227:GLN:O	5:L:230:VAL:HG12	2.19	0.42
5:L:410:ILE:HG22	5:L:411:GLY:N	2.34	0.42
5:L:418:LYS:O	5:L:430:TYR:HE2	2.02	0.42
2:C:1137:GLU:HG2	2:C:1137:GLU:O	2.19	0.42
2:C:1148:ALA:C	2:C:1150:ASP:H	2.22	0.42
2:C:189:ASP:OD1	2:C:193:ASN:HB2	2.20	0.42
2:C:268:ARG:O	2:C:270:THR:HG23	2.19	0.42
2:C:484:LEU:HD12	2:C:486:THR:HB	2.01	0.42
2:C:569:ILE:C	2:C:571:LEU:N	2.70	0.42
2:C:70:TYR:CZ	2:C:72:SER:CA	3.02	0.42
3:D:1363:TYR:C	3:D:1363:TYR:CD2	2.92	0.42
3:D:232:ASN:HA	3:D:236:TRP:CZ3	2.54	0.42
3:D:423:LEU:HD12	3:D:468:VAL:CG1	2.29	0.42
3:D:453:VAL:O	3:D:454:CYS:C	2.58	0.42
3:D:491:LEU:HA	3:D:491:LEU:HD23	1.40	0.42
3:D:534:GLU:O	3:D:537:TYR:N	2.45	0.42
3:D:653:ILE:O	3:D:654:ILE:C	2.58	0.42
3:D:907:HIS:N	3:D:907:HIS:ND1	2.67	0.42
4:E:42:GLU:C	4:E:44:ASP:H	2.23	0.42
5:F:233:ASP:C	5:F:235:ILE:H	2.23	0.42
5:F:466:ILE:HD12	5:F:487:MET:HE1	2.01	0.42
1:G:15:ASP:O	1:G:27:THR:N	2.38	0.42
1:H:47:LEU:HD13	1:H:205:MET:SD	2.59	0.42
2:I:1092:THR:HA	2:I:1093:PRO:HD3	1.83	0.42
2:I:1230:MET:HG2	2:I:1232:MET:HG3	2.02	0.42
2:I:130:MET:HE2	2:I:136:PHE:CE1	2.54	0.42
2:I:325:LEU:HA	2:I:328:SER:CB	2.50	0.42
2:I:395:TYR:CE2	2:I:397:LEU:CD1	2.98	0.42
2:I:558:VAL:C	2:I:576:SER:OG	2.58	0.42
2:I:62:TYR:CZ	2:I:476:LYS:CB	2.99	0.42
2:I:769:PRO:HA	2:I:784:ALA:HB1	2.01	0.42
2:I:800:MET:HG3	2:I:1096:ILE:HD11	2.00	0.42
2:I:877:VAL:HG21	2:I:883:LEU:HD21	2.01	0.42
3:J:120:LEU:HD22	3:J:120:LEU:C	2.39	0.42
3:J:322:ARG:CZ	3:J:322:ARG:HB2	2.49	0.42
3:J:333:GLY:O	3:J:335:GLN:N	2.52	0.42
3:J:398:LYS:O	3:J:401:VAL:HG22	2.20	0.42
3:J:438:GLU:OE2	3:J:481:ARG:NH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:50:LYS:HB3	3:J:51:PRO:CD	2.49	0.42
3:J:526:VAL:HG13	3:J:549:LYS:HB2	2.00	0.42
3:J:683:ILE:HG12	3:J:683:ILE:O	2.16	0.42
3:J:740:LEU:N	3:J:740:LEU:CD1	2.81	0.42
3:J:766:GLY:O	3:J:767:LEU:HD12	2.20	0.42
4:K:63:ILE:O	4:K:66:VAL:HB	2.20	0.42
5:L:118:ASP:O	5:L:122:ARG:HG3	2.20	0.42
5:L:509:THR:HB	5:L:519:LEU:HB2	2.01	0.42
2:I:1302:THR:HG22	5:L:531:PRO:HA	2.01	0.42
5:L:604:SER:O	5:L:607:LEU:N	2.52	0.42
1:A:168:ILE:H	1:A:168:ILE:HG12	1.61	0.42
1:A:35:PHE:HD1	1:A:35:PHE:HA	1.51	0.42
2:C:1029:LEU:O	2:C:1030:GLU:C	2.58	0.42
2:C:1103:VAL:O	2:C:1104:PRO:C	2.57	0.42
2:C:1138:VAL:HG23	2:C:1139:ALA:N	2.35	0.42
2:C:1191:LYS:HZ3	2:C:1193:ALA:CA	2.31	0.42
2:C:1341:ASP:CG	2:C:1342:GLU:H	2.21	0.42
2:C:244:GLU:HB2	2:C:278:GLU:OE2	2.19	0.42
2:C:221:LEU:HD11	2:C:314:ASN:HB2	2.02	0.42
2:C:5:TYR:HA	2:C:5:TYR:HD1	1.60	0.42
2:C:960:LEU:HD22	2:C:960:LEU:N	2.34	0.42
3:D:9:LYS:HE2	3:D:11:GLN:CA	2.49	0.42
3:D:1309:ILE:O	3:D:1312:ALA:HB3	2.19	0.42
3:D:483:LEU:HD23	3:D:483:LEU:N	2.34	0.42
3:D:64:PRO:HB3	3:D:69:GLU:O	2.19	0.42
3:D:83:VAL:CG2	3:D:84:ILE:N	2.83	0.42
4:E:81:GLN:HA	4:E:84:THR:OG1	2.18	0.42
5:F:268:TYR:O	5:F:272:SER:N	2.37	0.42
5:F:572:THR:C	5:F:574:GLU:H	2.23	0.42
1:G:35:PHE:CZ	1:H:50:SER:CB	3.01	0.42
2:I:1023:HIS:O	2:I:1026:GLU:N	2.52	0.42
2:I:1082:ILE:O	2:I:1085:MET:HB2	2.19	0.42
2:I:74:ARG:C	2:I:75:LEU:HD22	2.40	0.42
3:J:293:ARG:O	3:J:296:LYS:N	2.52	0.42
2:I:1305:TYR:HE1	3:J:379:PRO:HG3	1.81	0.42
1:H:191:ARG:NH2	3:J:413:ASP:OD2	2.52	0.42
3:J:363:LEU:HA	3:J:450:HIS:CD2	2.54	0.42
3:J:573:THR:O	3:J:577:ALA:HB2	2.19	0.42
3:J:53:ARG:CZ	3:J:60:ARG:HD2	2.50	0.42
2:I:1276:TRP:CE2	3:J:801:VAL:HG21	2.54	0.42
3:J:919:ALA:HB2	3:J:1255:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:377:LYS:O	5:L:380:VAL:HG12	2.19	0.42
2:I:495:ALA:HB3	5:L:471:LEU:HD13	2.01	0.42
1:A:118:ASP:HB3	1:A:121:VAL:HB	2.01	0.42
1:A:33:ARG:C	1:A:35:PHE:N	2.72	0.42
1:A:41:ASN:C	1:A:43:LEU:H	2.23	0.42
1:B:88:LEU:CD1	1:B:89:ALA:N	2.68	0.42
2:C:1080:ASN:HB2	2:C:1085:MET:HE3	2.01	0.42
2:C:1176:LEU:HD23	2:C:1176:LEU:N	2.19	0.42
2:C:672:GLU:CG	2:C:1187:PHE:HD2	2.31	0.42
2:C:1254:VAL:HG22	2:C:1255:THR:N	2.35	0.42
2:C:448:LEU:HD11	2:C:554:HIS:CE1	2.54	0.42
2:C:478:ARG:CZ	2:C:482:GLY:HA2	2.49	0.42
2:C:903:ARG:HH21	2:C:910:ALA:HA	1.83	0.42
2:C:952:GLN:O	2:C:956:ALA:N	2.36	0.42
3:D:1340:LYS:CG	3:D:1341:ARG:N	2.82	0.42
3:D:377:PHE:HD1	3:D:380:PHE:CD1	2.37	0.42
3:D:491:LEU:HD13	3:D:496:GLY:O	2.19	0.42
3:D:554:GLU:OE2	3:D:588:PRO:HA	2.20	0.42
3:D:814:CYS:N	3:D:895:CYS:HB2	2.34	0.42
5:F:130:VAL:O	5:F:134:VAL:HG23	2.20	0.42
5:F:383:ASN:OD1	5:F:427:PHE:HE2	2.02	0.42
5:F:448:ARG:HD2	5:F:452:ILE:CG2	2.49	0.42
5:F:456:MET:O	5:F:460:ILE:HD12	2.19	0.42
5:F:534:SER:O	5:F:537:THR:HB	2.18	0.42
5:F:567:MET:HE2	5:F:567:MET:HB2	1.92	0.42
5:F:577:GLY:C	5:F:579:GLN:N	2.71	0.42
1:G:26:VAL:HG22	1:G:27:THR:N	2.34	0.42
1:G:60:GLU:HG2	1:G:143:ARG:NH2	2.33	0.42
1:H:135:ASP:OD1	1:H:135:ASP:N	2.52	0.42
1:H:56:VAL:HG22	1:H:144:ILE:HD12	2.02	0.42
2:I:1116:HIS:CD2	2:I:1226:THR:CG2	3.03	0.42
2:I:189:ASP:HB2	2:I:190:PRO:HD2	2.02	0.42
2:I:277:LEU:HD23	2:I:282:VAL:CB	2.45	0.42
2:I:238:GLN:HA	2:I:285:ILE:O	2.19	0.42
2:I:327:GLN:NE2	2:I:328:SER:HB3	2.34	0.42
2:I:369:MET:SD	2:I:370:MET:N	2.93	0.42
2:I:37:LYS:HD3	2:I:37:LYS:HA	1.64	0.42
2:I:498:ILE:CD1	2:I:498:ILE:N	2.82	0.42
2:I:525:THR:HG21	2:I:687:ARG:HD2	2.01	0.42
2:I:671:LEU:HD12	2:I:674:ASP:HB2	2.01	0.42
2:I:680:LEU:HD23	2:I:680:LEU:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:74:ARG:NH1	2:I:74:ARG:HB3	2.35	0.42
2:I:791:LEU:HD23	2:I:791:LEU:HA	1.49	0.42
2:I:693:LEU:HB2	2:I:829:THR:O	2.20	0.42
3:J:285:LEU:HD12	3:J:285:LEU:N	2.35	0.42
3:J:537:TYR:C	3:J:539:SER:H	2.23	0.42
3:J:672:LEU:N	3:J:672:LEU:HD12	2.35	0.42
3:J:860:ARG:HB3	3:J:861:ASN:H	1.59	0.42
5:L:539:SER:O	5:L:542:ALA:HB3	2.19	0.42
1:A:68:TYR:HB3	2:C:756:TYR:CD2	2.54	0.42
1:B:123:ILE:HA	1:B:123:ILE:HD12	1.72	0.42
1:B:256:PRO:C	1:B:258:ASP:H	2.23	0.42
2:C:1073:LYS:HB2	3:D:462:ASP:CB	2.49	0.42
2:C:1180:MET:O	2:C:1182:ILE:HG13	2.18	0.42
2:C:1210:ILE:CG2	2:C:1211:ARG:N	2.82	0.42
2:C:174:ALA:N	2:C:186:PHE:O	2.41	0.42
2:C:230:PHE:CD1	2:C:239:MET:HB2	2.54	0.42
2:C:339:ASN:O	2:C:345:PRO:HD3	2.19	0.42
2:C:385:PHE:CE2	2:C:390:PHE:CE2	3.08	0.42
2:C:198:ILE:HD13	2:C:388:LEU:HD13	2.02	0.42
2:C:468:LEU:O	2:C:469:VAL:C	2.57	0.42
2:C:587:LEU:HD23	2:C:587:LEU:HA	1.50	0.42
2:C:753:LEU:HD12	2:C:753:LEU:HA	1.31	0.42
2:C:805:MET:HE2	2:C:805:MET:HB2	1.74	0.42
3:D:1231:ARG:CB	3:D:1231:ARG:CZ	2.97	0.42
3:D:15:GLU:O	3:D:17:PHE:N	2.43	0.42
3:D:368:LEU:HD23	3:D:369:PRO:N	2.35	0.42
3:D:499:ILE:O	3:D:500:ILE:HD13	2.19	0.42
3:D:537:TYR:CZ	3:D:544:LEU:HD23	2.54	0.42
3:D:572:THR:HG21	3:D:589:TYR:OH	2.19	0.42
5:F:133:SER:HA	5:F:136:GLU:OE2	2.19	0.42
5:F:121:LYS:HG2	5:F:421:TYR:OH	2.19	0.42
5:F:470:MET:HE2	5:F:483:LEU:HD12	2.02	0.42
5:F:487:MET:C	5:F:489:MET:N	2.70	0.42
3:D:263:SER:HB2	5:F:507:MET:HE1	2.02	0.42
5:F:540:LEU:HD12	5:F:540:LEU:HA	1.13	0.42
5:F:542:ALA:O	5:F:546:ASP:N	2.42	0.42
1:G:133:LEU:HD12	1:G:138:ALA:CB	2.49	0.42
1:G:60:GLU:CD	1:G:143:ARG:HH21	2.23	0.42
1:H:153:VAL:HA	1:H:154:PRO:HD3	1.45	0.42
2:I:100:LEU:HA	2:I:100:LEU:HD23	1.82	0.42
2:I:521:LEU:O	2:I:525:THR:HB	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:866:ASP:HA	2:I:872:TYR:OH	2.20	0.42
3:J:1146:GLU:HG2	3:J:1148:ARG:CZ	2.49	0.42
3:J:1261:LEU:HD12	3:J:1261:LEU:N	2.35	0.42
3:J:290:ILE:CD1	3:J:290:ILE:H	2.33	0.42
2:I:1336:ASN:ND2	3:J:29:MET:HE3	2.35	0.42
3:J:324:LEU:HD12	3:J:324:LEU:C	2.39	0.42
3:J:369:PRO:HG3	3:J:446:ALA:O	2.19	0.42
3:J:490:ILE:HG12	3:J:500:ILE:HG12	2.00	0.42
3:J:536:LEU:CD1	3:J:541:LEU:CB	2.97	0.42
3:J:615:LYS:HG3	3:J:615:LYS:H	1.53	0.42
4:K:30:MET:CE	4:K:46:THR:HB	2.48	0.42
5:L:240:ARG:HB3	5:L:244:THR:CB	2.34	0.42
1:A:54:CYS:HB2	1:A:147:GLN:O	2.19	0.42
1:B:102:LEU:H	1:B:142:MET:N	2.18	0.42
2:C:820:GLU:N	2:C:1080:ASN:O	2.39	0.42
2:C:14:ASP:HA	2:C:1183:ALA:HB3	2.01	0.42
2:C:191:LYS:HB3	2:C:191:LYS:HE2	1.87	0.42
2:C:28:LEU:O	2:C:29:SER:C	2.57	0.42
2:C:835:GLU:HG2	2:C:835:GLU:O	2.18	0.42
2:C:746:ALA:CB	2:C:974:ARG:NE	2.83	0.42
2:C:979:LEU:HD23	2:C:1000:LEU:CD1	2.49	0.42
3:D:1146:GLU:OE2	3:D:1309:ILE:HG13	2.20	0.42
3:D:128:LEU:HD21	3:D:189:LEU:HD21	1.95	0.42
3:D:133:ARG:HA	3:D:133:ARG:HD2	1.77	0.42
3:D:217:LEU:O	3:D:220:ARG:N	2.53	0.42
3:D:42:GLU:HG3	5:F:451:ARG:CD	2.48	0.42
5:F:254:GLU:OE1	5:F:254:GLU:HA	2.19	0.42
1:G:166:ARG:O	1:G:168:ILE:HG23	2.19	0.42
1:G:42:ALA:HA	1:G:45:ARG:HB3	2.01	0.42
2:I:1049:ILE:CG2	2:I:1050:VAL:N	2.81	0.42
2:I:107:ARG:HA	2:I:108:GLU:HA	1.91	0.42
1:H:41:ASN:CG	2:I:1217:THR:HA	2.40	0.42
2:I:16:GLY:HA2	2:I:1188:ASP:O	2.20	0.42
2:I:247:ARG:HG3	2:I:248:GLY:N	2.34	0.42
2:I:395:TYR:CE2	2:I:420:LEU:HD21	2.54	0.42
2:I:607:SER:OG	2:I:609:ILE:CG1	2.67	0.42
2:I:623:LEU:C	2:I:623:LEU:HD12	2.39	0.42
2:I:706:ARG:O	2:I:709:ALA:N	2.52	0.42
2:I:867:GLU:OE2	2:I:943:LYS:HD3	2.20	0.42
3:J:190:LYS:HB2	3:J:190:LYS:HE2	1.78	0.42
3:J:262:THR:C	5:L:507:MET:HG3	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:343:LEU:O	3:J:343:LEU:CG	2.67	0.42
3:J:358:GLY:N	3:J:359:PRO:CD	2.83	0.42
3:J:381:ILE:O	3:J:385:LEU:HG	2.20	0.42
3:J:357:VAL:CA	3:J:461:PHE:CE1	3.03	0.42
3:J:85:CYS:SG	3:J:88:CYS:N	2.90	0.42
3:J:903:LEU:HB3	3:J:905:ARG:HG3	2.02	0.42
5:L:399:LEU:HD13	5:L:399:LEU:HA	1.71	0.42
5:L:390:ILE:CG2	5:L:436:ARG:HG3	2.48	0.42
1:A:112:ALA:O	1:A:115:ILE:HG13	2.19	0.42
1:B:110:VAL:HG23	1:B:133:LEU:CD1	2.50	0.42
1:B:135:ASP:OD2	1:B:136:GLU:HB2	2.19	0.42
1:B:59:VAL:CG2	1:B:144:ILE:CD1	2.98	0.42
2:C:87:ILE:HG23	2:C:1053:TYR:OH	2.20	0.42
2:C:1087:TYR:C	2:C:1087:TYR:CD2	2.93	0.42
2:C:1108:ASN:C	2:C:1110:GLY:N	2.73	0.42
2:C:1287:LEU:HD23	2:C:1288:GLN:HA	2.01	0.42
2:C:130:MET:HG2	2:C:131:THR:O	2.19	0.42
2:C:252:SER:O	2:C:253:PHE:HB3	2.20	0.42
2:C:464:PHE:O	2:C:465:ARG:C	2.57	0.42
2:C:742:TYR:CD2	2:C:743:PRO:HD2	2.53	0.42
2:C:74:ARG:NH1	2:C:74:ARG:CB	2.78	0.42
2:C:801:ARG:O	2:C:1094:VAL:HG23	2.20	0.42
2:C:804:PHE:HB3	2:C:1100:PRO:HB3	2.02	0.42
2:C:843:THR:C	2:C:846:GLY:H	2.23	0.42
2:C:853:ASP:C	2:C:854:ILE:HG13	2.40	0.42
2:C:996:ARG:HA	2:C:996:ARG:HD3	1.42	0.42
3:D:1252:HIS:HA	3:D:1255:VAL:CG1	2.50	0.42
3:D:1262:ARG:NH2	3:D:1312:ALA:O	2.52	0.42
3:D:169:LEU:HA	3:D:169:LEU:HD23	1.70	0.42
2:C:1281:TYR:CE2	3:D:431:ARG:O	2.73	0.42
3:D:432:LEU:HD13	3:D:456:ALA:HB1	2.02	0.42
3:D:363:LEU:HD11	3:D:500:ILE:HG21	2.01	0.42
3:D:589:TYR:C	3:D:591:ILE:N	2.73	0.42
3:D:605:LEU:HA	3:D:605:LEU:HD23	1.66	0.42
3:D:750:PRO:C	3:D:752:GLY:H	2.23	0.42
3:D:98:ARG:O	3:D:248:ASP:N	2.49	0.42
4:E:25:ARG:HD3	4:E:64:LEU:CD1	2.48	0.42
5:F:133:SER:OG	5:F:361:ILE:O	2.38	0.42
1:G:133:LEU:HD12	1:G:138:ALA:HB3	2.01	0.42
2:I:1216:ARG:HE	2:I:1216:ARG:HB2	1.70	0.42
2:I:1253:LEU:O	2:I:1253:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:287:VAL:HG23	2:I:288:PRO:N	2.34	0.42
2:I:756:TYR:N	2:I:756:TYR:HD1	2.13	0.42
2:I:778:GLU:HG3	2:I:779:ARG:N	2.35	0.42
2:I:871:VAL:CG2	2:I:872:TYR:N	2.83	0.42
2:I:969:ALA:O	2:I:973:SER:N	2.46	0.42
3:J:1144:LEU:O	3:J:1147:ALA:N	2.53	0.42
3:J:123:ARG:HD3	3:J:123:ARG:HA	1.90	0.42
3:J:128:LEU:C	3:J:130:MET:N	2.71	0.42
3:J:802:ASP:CG	3:J:1325:PHE:HD1	2.23	0.42
3:J:183:GLU:H	3:J:183:GLU:HG2	1.37	0.42
3:J:279:LEU:HD12	3:J:295:GLU:HG3	2.02	0.42
3:J:343:LEU:CD2	3:J:343:LEU:O	2.67	0.42
3:J:460:ASP:C	3:J:461:PHE:HD2	2.22	0.42
3:J:473:THR:HG23	3:J:475:GLU:HB2	2.01	0.42
3:J:615:LYS:NZ	4:K:7:GLN:CG	2.72	0.42
4:K:36:ASP:HB2	4:K:37:PRO:CD	2.48	0.42
5:L:121:LYS:HA	5:L:421:TYR:HE2	1.82	0.42
5:L:433:TRP:O	5:L:437:GLN:CB	2.68	0.42
5:L:517:SER:O	5:L:518:HIS:ND1	2.34	0.42
2:I:901:LEU:HB2	5:L:563:PHE:HD2	1.85	0.42
1:A:61:ILE:CD1	1:A:142:MET:HE2	2.50	0.42
1:A:211:ILE:HD13	1:A:211:ILE:HA	1.80	0.42
1:B:201:LEU:HG	1:B:203:ILE:HD11	2.01	0.42
1:B:282:VAL:HA	1:B:314:LEU:HD12	2.01	0.42
1:B:286:GLU:CD	1:B:304:LYS:HD3	2.41	0.42
2:C:145:ILE:HG13	2:C:512:SER:HA	2.00	0.42
2:C:194:LEU:HD12	2:C:194:LEU:HA	1.64	0.42
2:C:634:VAL:HG22	2:C:635:THR:N	2.35	0.42
2:C:658:GLN:C	2:C:660:VAL:H	2.23	0.42
2:C:72:SER:OG	2:C:73:TYR:N	2.52	0.42
2:C:785:ASP:HB3	2:C:789:THR:O	2.20	0.42
2:C:802:VAL:HG22	2:C:803:ALA:N	2.35	0.42
3:D:197:GLU:OE1	3:D:220:ARG:NH1	2.53	0.42
3:D:225:GLU:O	3:D:229:GLN:HB2	2.20	0.42
3:D:22:ILE:HG12	3:D:23:ALA:H	1.83	0.42
3:D:575:GLY:O	3:D:578:ILE:N	2.53	0.42
3:D:704:GLU:O	3:D:706:VAL:HG22	2.20	0.42
3:D:759:ILE:CD1	3:D:771:GLN:HA	2.50	0.42
5:F:331:HIS:C	5:F:333:VAL:H	2.23	0.42
5:F:347:ILE:CG2	5:F:351:THR:HG23	2.49	0.42
5:F:486:ARG:C	5:F:487:MET:HG2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:224:LEU:CD2	1:G:224:LEU:C	2.88	0.42
1:G:231:PHE:HB3	1:H:218:ARG:HA	2.00	0.42
1:G:96:ASP:OD2	1:G:148:ARG:NE	2.52	0.42
1:H:192:VAL:HG12	1:H:195:ARG:CG	2.49	0.42
2:I:1253:LEU:CD1	3:J:253:VAL:HG11	2.50	0.42
2:I:1305:TYR:CE2	5:L:532:LEU:HD23	2.55	0.42
2:I:216:THR:O	2:I:220:ILE:HG13	2.20	0.42
2:I:245:ARG:HG2	2:I:337:PHE:CZ	2.53	0.42
2:I:288:PRO:C	2:I:290:GLU:H	2.22	0.42
2:I:320:ASP:O	2:I:323:ALA:HB3	2.20	0.42
2:I:27:LEU:HB2	2:I:524:ILE:HD11	2.01	0.42
2:I:699:LEU:HD23	2:I:699:LEU:HA	1.13	0.42
2:I:790:ASP:O	2:I:793:GLU:N	2.42	0.42
2:I:802:VAL:CG2	2:I:1098:LEU:CD1	2.96	0.42
2:I:927:THR:HB	2:I:1055:ALA:HB3	2.01	0.42
3:J:123:ARG:HH12	3:J:1334:GLU:HG3	1.84	0.42
3:J:227:PHE:CE2	3:J:232:ASN:CB	2.95	0.42
3:J:288:PRO:C	3:J:290:ILE:N	2.73	0.42
3:J:457:TYR:O	3:J:458:ASN:CB	2.66	0.42
3:J:735:ALA:O	3:J:738:ARG:HB3	2.20	0.42
3:J:641:ILE:HD13	3:J:764:ARG:NE	2.35	0.42
3:J:847:ASP:N	3:J:860:ARG:HA	2.35	0.42
3:J:888:CYS:SG	3:J:890:THR:CB	3.08	0.42
5:L:296:LYS:HA	5:L:296:LYS:HD2	1.88	0.42
5:L:489:MET:HA	5:L:490:PRO:HD2	1.75	0.42
5:L:525:ASP:OD1	5:L:527:THR:N	2.50	0.42
5:L:587:ILE:CG2	5:L:588:ARG:N	2.83	0.42
1:A:129:VAL:O	1:A:129:VAL:HG13	2.20	0.41
1:A:61:ILE:HD12	1:A:61:ILE:HG21	1.70	0.41
1:A:75:GLN:O	2:C:729:ALA:HB2	2.20	0.41
1:A:92:VAL:HG12	1:A:121:VAL:CG2	2.42	0.41
1:B:143:ARG:HG3	1:B:143:ARG:H	1.63	0.41
1:B:156:SER:H	1:B:157:THR:HG1	1.64	0.41
2:C:1021:LEU:HD23	2:C:1021:LEU:HA	1.67	0.41
2:C:1144:PHE:O	2:C:1147:ARG:N	2.43	0.41
2:C:1278:LEU:HB3	2:C:1283:ALA:HB3	2.02	0.41
2:C:155:VAL:CG2	2:C:176:ILE:HG12	2.50	0.41
2:C:163:LYS:HB3	2:C:163:LYS:HE3	1.87	0.41
2:C:209:ILE:O	2:C:212:ALA:HB3	2.20	0.41
2:C:327:GLN:NE2	2:C:328:SER:HB3	2.35	0.41
2:C:328:SER:OG	2:C:330:HIS:CD2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:487:LEU:HD23	2:C:487:LEU:O	2.19	0.41
2:C:572:ILE:HD13	2:C:572:ILE:HA	1.79	0.41
2:C:631:GLU:OE1	2:C:631:GLU:N	2.53	0.41
2:C:865:LEU:CD2	2:C:870:ILE:C	2.88	0.41
2:C:94:ALA:HA	2:C:95:PRO:HD3	1.54	0.41
3:D:1233:ILE:HG21	3:D:1257:VAL:HG23	2.02	0.41
3:D:194:LEU:C	3:D:196:GLN:N	2.73	0.41
3:D:550:VAL:CG2	3:D:572:THR:HG22	2.50	0.41
3:D:513:MET:SD	3:D:631:TYR:CD2	3.13	0.41
3:D:848:VAL:HG12	3:D:858:VAL:N	2.17	0.41
3:D:88:CYS:O	3:D:90:VAL:HG23	2.20	0.41
5:F:119:ILE:HG22	5:F:123:ILE:HG13	2.02	0.41
5:F:227:GLN:HG3	5:F:252:LEU:HD13	2.02	0.41
5:F:463:LEU:HG	5:F:483:LEU:HD21	2.00	0.41
1:G:89:ALA:C	1:G:210:THR:HG21	2.40	0.41
1:H:43:LEU:O	1:H:46:ILE:N	2.47	0.41
1:H:76:GLU:HB2	1:H:81:ILE:CG1	2.50	0.41
2:I:1155:VAL:HG23	2:I:1156:ARG:N	2.34	0.41
2:I:1111:GLN:HB2	2:I:1230:MET:HE1	2.02	0.41
2:I:1330:ILE:HG23	2:I:1335:ILE:HB	2.02	0.41
2:I:556:GLY:HA2	2:I:659:GLN:O	2.20	0.41
2:I:68:LEU:HD12	2:I:69:GLN:N	2.35	0.41
2:I:720:ARG:NH1	2:I:749:ASP:OD2	2.42	0.41
2:I:801:ARG:HA	2:I:1229:TYR:CE2	2.55	0.41
2:I:802:VAL:HG23	2:I:1098:LEU:CD1	2.50	0.41
2:I:871:VAL:HG22	2:I:872:TYR:N	2.35	0.41
2:I:74:ARG:HH22	2:I:97:ARG:HG3	1.85	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.35	0.41
3:J:1155:ILE:C	3:J:1210:ILE:HG12	2.39	0.41
3:J:449:LEU:HD12	3:J:450:HIS:N	2.34	0.41
3:J:450:HIS:HE1	3:J:452:LEU:CG	2.33	0.41
2:I:1073:LYS:HB3	3:J:462:ASP:HB2	2.02	0.41
3:J:502:PRO:HA	3:J:506:VAL:HG11	2.01	0.41
3:J:557:LYS:HA	3:J:562:GLU:O	2.20	0.41
3:J:733:SER:HG	3:J:736:GLN:CD	2.24	0.41
3:J:877:VAL:CG1	3:J:877:VAL:O	2.68	0.41
3:J:67:ASP:OD1	3:J:94:GLN:HB3	2.20	0.41
5:L:346:GLN:HG2	5:L:350:GLU:OE2	2.20	0.41
5:L:563:PHE:O	5:L:565:ILE:HG22	2.20	0.41
1:A:11:PRO:HB3	1:A:31:LEU:HD23	2.01	0.41
1:A:148:ARG:CZ	1:A:148:ARG:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:LEU:HD12	1:A:201:LEU:HA	1.61	0.41
1:B:152:TYR:CD1	1:B:176:CYS:HA	2.51	0.41
1:B:6:THR:HG1	1:B:7:GLU:CD	2.23	0.41
2:C:1151:LEU:HD23	2:C:1151:LEU:C	2.40	0.41
2:C:199:ASP:OD1	2:C:199:ASP:N	2.51	0.41
2:C:323:ALA:O	2:C:327:GLN:HG3	2.20	0.41
2:C:363:LEU:HD21	2:C:382:GLU:HA	2.01	0.41
2:C:534:GLY:HA3	2:C:535:PRO:HD2	1.48	0.41
2:C:615:VAL:HG13	2:C:651:ASP:N	2.31	0.41
2:C:68:LEU:HA	2:C:68:LEU:HD12	1.64	0.41
2:C:12:ARG:NH1	2:C:701:GLY:H	2.18	0.41
2:C:720:ARG:HH22	2:C:742:TYR:H	1.68	0.41
2:C:142:GLU:H	2:C:760:ASN:HD21	1.68	0.41
2:C:768:MET:HA	2:C:769:PRO:HD3	1.91	0.41
2:C:746:ALA:CB	2:C:974:ARG:HH21	2.34	0.41
3:D:1184:ASP:OD2	3:D:1184:ASP:N	2.48	0.41
3:D:1196:LEU:N	3:D:1196:LEU:HD13	2.36	0.41
2:C:1279:GLU:OE2	8:D:2004:4C4:H31	2.20	0.41
3:D:239:LEU:HA	3:D:239:LEU:HD23	1.72	0.41
3:D:252:LEU:HA	3:D:252:LEU:HD23	1.48	0.41
3:D:271:ARG:NE	5:F:400:GLN:HE22	2.16	0.41
3:D:355:ILE:HG22	3:D:447:ILE:HB	2.02	0.41
3:D:436:ALA:HB3	3:D:485:MET:CA	2.49	0.41
3:D:528:THR:HG23	3:D:529:GLY:H	1.85	0.41
3:D:667:GLN:O	3:D:672:LEU:HD13	2.21	0.41
3:D:720:ASN:HD21	3:D:722:ILE:HG22	1.85	0.41
2:C:680:LEU:HD13	3:D:783:LEU:HD11	2.02	0.41
3:D:8:LEU:C	3:D:8:LEU:HD23	2.41	0.41
2:C:901:LEU:CA	5:F:563:PHE:CD2	3.03	0.41
1:G:178:SER:OG	1:G:180:VAL:CG2	2.69	0.41
1:G:67:GLU:H	1:G:67:GLU:HG2	1.46	0.41
1:H:228:LEU:HA	1:H:228:LEU:HD23	1.92	0.41
1:H:39:LEU:N	1:H:39:LEU:HD23	2.32	0.41
2:I:1279:GLU:O	3:J:914:ALA:CB	2.69	0.41
2:I:30:ILE:HD12	2:I:30:ILE:H	1.83	0.41
2:I:563:THR:CG2	2:I:564:PRO:O	2.68	0.41
2:I:593:LYS:HG3	2:I:595:THR:HG23	2.02	0.41
2:I:18:ARG:NH2	2:I:621:SER:N	2.68	0.41
2:I:681:MET:O	2:I:685:MET:HE2	2.20	0.41
2:I:692:THR:CG2	2:I:694:ARG:O	2.68	0.41
2:I:840:SER:HA	2:I:848:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1167:LYS:CE	3:J:1174:ARG:HD2	2.50	0.41
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.20	0.41
3:J:622:ASP:O	3:J:625:MET:N	2.53	0.41
3:J:93:THR:HG22	3:J:94:GLN:N	2.31	0.41
5:L:248:GLU:O	5:L:252:LEU:HB2	2.19	0.41
1:A:142:MET:HB3	1:A:142:MET:HE2	1.94	0.41
1:B:208:ASN:OD1	1:B:210:THR:HG23	2.20	0.41
1:B:211:ILE:HD12	1:B:211:ILE:HA	1.71	0.41
1:B:99:ILE:O	1:B:99:ILE:HG23	2.20	0.41
2:C:155:VAL:HG23	2:C:176:ILE:HG13	2.02	0.41
2:C:211:ARG:HH12	2:C:217:THR:CA	2.34	0.41
2:C:230:PHE:HB2	2:C:333:ILE:O	2.19	0.41
2:C:463:GLN:O	2:C:466:VAL:HB	2.20	0.41
2:C:483:ASP:CB	2:C:486:THR:CG2	2.81	0.41
2:C:525:THR:CG2	2:C:687:ARG:HD2	2.40	0.41
2:C:830:THR:CG2	2:C:1234:LYS:NZ	2.83	0.41
2:C:896:THR:O	2:C:900:LYS:HB2	2.20	0.41
2:C:933:VAL:HG22	2:C:1050:VAL:CG1	2.50	0.41
2:C:971:LEU:HD13	2:C:1018:TYR:CB	2.48	0.41
3:D:111:THR:CG2	3:D:303:VAL:HG21	2.47	0.41
3:D:399:LYS:HB3	3:D:403:ARG:NH2	2.33	0.41
3:D:418:GLU:HG3	4:E:45:LYS:H	1.84	0.41
3:D:646:ILE:HG12	3:D:646:ILE:H	1.57	0.41
3:D:759:ILE:HD11	3:D:771:GLN:O	2.19	0.41
3:D:800:LEU:O	3:D:803:VAL:HG12	2.20	0.41
5:F:235:ILE:HG23	5:F:242:HIS:CE1	2.54	0.41
1:G:77:ASP:OD1	1:G:77:ASP:N	2.53	0.41
1:H:104:LYS:HE2	1:H:105:SER:O	2.21	0.41
1:H:133:LEU:HA	1:H:133:LEU:HD12	1.58	0.41
1:H:72:GLU:OE2	1:H:72:GLU:CA	2.67	0.41
2:I:27:LEU:HA	2:I:27:LEU:HD23	1.58	0.41
2:I:303:ASP:CG	2:I:306:THR:HG23	2.39	0.41
2:I:39:ILE:HD12	2:I:75:LEU:CD2	2.51	0.41
2:I:865:LEU:HD22	2:I:870:ILE:C	2.41	0.41
2:I:974:ARG:HD2	2:I:1014:LEU:HD21	2.02	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:CD	2.98	0.41
3:J:265:LEU:O	3:J:268:LEU:HB2	2.20	0.41
3:J:515:ARG:CG	3:J:516:ASP:N	2.84	0.41
3:J:57:PHE:CD2	3:J:57:PHE:N	2.87	0.41
3:J:606:ASN:OD1	3:J:610:ARG:NH2	2.53	0.41
3:J:804:ALA:HA	3:J:1259:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:390:ILE:O	5:L:393:LYS:HB2	2.20	0.41
1:B:108:GLY:O	1:B:133:LEU:HD13	2.20	0.41
1:B:281:LEU:O	1:B:283:GLN:N	2.53	0.41
2:C:69:GLN:HG3	2:C:101:ARG:HB3	2.01	0.41
2:C:1193:ALA:O	2:C:1195:ILE:N	2.54	0.41
2:C:18:ARG:HA	2:C:19:PRO:HD3	1.78	0.41
2:C:331:LYS:H	2:C:331:LYS:HG2	1.64	0.41
2:C:593:LYS:HB2	2:C:652:TYR:HE2	1.86	0.41
2:C:686:GLN:C	2:C:688:GLN:H	2.23	0.41
2:C:794:LEU:HD12	2:C:795:ALA:N	2.34	0.41
3:D:1330:ARG:O	3:D:1331:VAL:C	2.59	0.41
3:D:1323:ALA:CA	3:D:1331:VAL:HG21	2.50	0.41
3:D:160:LEU:HD13	3:D:165:TYR:CA	2.47	0.41
3:D:166:LEU:HA	3:D:166:LEU:HD12	1.58	0.41
3:D:261:ALA:HB2	5:F:505:ILE:HG23	2.01	0.41
3:D:412:LEU:O	3:D:415:VAL:N	2.53	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:HB2	1.83	0.41
3:D:475:GLU:O	3:D:478:LEU:N	2.39	0.41
3:D:429:LEU:HG	3:D:925:GLU:HG2	2.03	0.41
5:F:119:ILE:HD13	5:F:122:ARG:HE	1.85	0.41
5:F:129:GLN:HG3	5:F:364:ARG:HG2	2.02	0.41
5:F:393:LYS:NZ	5:F:436:ARG:NH2	2.69	0.41
5:F:462:LYS:CE	5:F:487:MET:SD	3.08	0.41
3:D:261:ALA:HA	5:F:505:ILE:O	2.20	0.41
5:F:601:PRO:C	5:F:603:ARG:H	2.23	0.41
1:G:219:ARG:HA	1:G:222:THR:CB	2.49	0.41
1:H:60:GLU:C	1:H:61:ILE:HD13	2.41	0.41
1:H:89:ALA:HB3	1:H:124:VAL:HG11	2.01	0.41
2:I:1099:ASN:OD1	2:I:1100:PRO:HD2	2.20	0.41
2:I:1259:LEU:HD12	2:I:1259:LEU:HA	1.56	0.41
2:I:189:ASP:OD2	2:I:190:PRO:HD2	2.19	0.41
2:I:606:LEU:CD2	2:I:611:GLU:HA	2.50	0.41
2:I:556:GLY:HA2	2:I:660:VAL:HA	2.03	0.41
2:I:798:GLN:CB	2:I:828:PHE:CE1	2.85	0.41
3:J:1149:ARG:NH2	3:J:1153:PRO:CG	2.83	0.41
3:J:1156:LEU:HA	3:J:1208:ASP:O	2.19	0.41
3:J:1171:GLY:HA2	3:J:1193:TRP:HZ3	1.84	0.41
3:J:1266:ILE:HD12	3:J:1274:PHE:CA	2.50	0.41
3:J:128:LEU:HD23	3:J:192:MET:CE	2.50	0.41
3:J:140:TYR:CD1	3:J:140:TYR:N	2.87	0.41
3:J:144:TYR:CD2	3:J:180:MET:HE3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:410:ASP:O	3:J:411:ILE:C	2.59	0.41
3:J:537:TYR:CE2	3:J:631:TYR:CE1	2.97	0.41
3:J:833:GLU:HA	3:J:834:PRO:HD3	1.84	0.41
3:J:864:LEU:N	3:J:864:LEU:HD23	2.35	0.41
5:L:496:LYS:HE2	5:L:496:LYS:HB3	1.62	0.41
1:A:154:PRO:HD2	1:A:157:THR:OG1	2.20	0.41
2:C:1133:LYS:C	2:C:1135:GLN:H	2.23	0.41
2:C:1136:GLN:O	2:C:1137:GLU:CB	2.69	0.41
2:C:1291:LEU:H	2:C:1291:LEU:HG	1.69	0.41
2:C:357:ASN:HD22	2:C:358:ASP:N	2.18	0.41
2:C:47:TYR:OH	2:C:398:SER:HB2	2.20	0.41
2:C:705:GLU:CD	2:C:705:GLU:H	2.24	0.41
2:C:813:GLU:OE1	2:C:813:GLU:HA	2.18	0.41
3:D:1144:LEU:HA	3:D:1144:LEU:HD23	1.56	0.41
3:D:1241:TYR:HD2	3:D:1246:VAL:CG1	2.34	0.41
3:D:1341:ARG:HD3	3:D:1343:GLU:OE2	2.21	0.41
3:D:646:ILE:HA	3:D:647:PRO:HD3	1.93	0.41
3:D:667:GLN:HA	3:D:672:LEU:CD1	2.37	0.41
3:D:674:THR:HG23	3:D:677:GLU:CB	2.48	0.41
3:D:759:ILE:HG23	3:D:771:GLN:HG2	2.03	0.41
3:D:918:ILE:HA	3:D:921:GLN:HG3	2.01	0.41
5:F:112:THR:O	5:F:114:GLU:N	2.54	0.41
5:F:137:TYR:O	5:F:140:ALA:HB3	2.21	0.41
5:F:346:GLN:O	5:F:350:GLU:HG3	2.21	0.41
1:G:118:ASP:HB3	1:G:121:VAL:CG2	2.50	0.41
1:G:166:ARG:N	1:G:167:PRO:HD2	2.35	0.41
1:G:184:ALA:HB2	2:I:1091:GLY:CA	2.50	0.41
1:G:56:VAL:HG22	1:G:57:THR:N	2.36	0.41
1:G:61:ILE:HG22	1:G:62:ASP:H	1.86	0.41
1:G:77:ASP:O	1:G:78:ILE:C	2.58	0.41
1:G:86:LYS:HE3	1:G:86:LYS:HB2	1.79	0.41
1:H:35:PHE:HA	1:H:38:THR:HG22	2.02	0.41
2:I:1209:GLN:HG2	2:I:1225:VAL:C	2.41	0.41
2:I:221:LEU:O	2:I:224:PHE:N	2.37	0.41
2:I:409:LEU:HD22	2:I:427:ASP:HB3	2.02	0.41
2:I:49:LEU:O	2:I:50:GLU:C	2.57	0.41
2:I:538:LEU:CD1	2:I:538:LEU:H	2.16	0.41
2:I:697:LYS:HA	2:I:698:PRO:HD3	1.85	0.41
2:I:4:SER:N	2:I:7:GLU:OE1	2.54	0.41
2:I:820:GLU:HA	2:I:1079:ILE:HD11	2.01	0.41
2:I:883:LEU:HA	2:I:883:LEU:HD23	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:870:ILE:HG13	2:I:884:VAL:HG22	2.01	0.41
3:J:1173:ARG:HB2	3:J:1192:LYS:HD2	2.01	0.41
3:J:1279:GLN:OE1	3:J:1279:GLN:HA	2.20	0.41
3:J:1293:GLU:O	3:J:1294:ALA:C	2.59	0.41
3:J:327:LEU:HA	3:J:327:LEU:HD23	1.63	0.41
3:J:429:LEU:HD13	3:J:429:LEU:HA	1.69	0.41
5:L:116:GLU:HB3	5:L:117:ILE:HD12	2.02	0.41
5:L:117:ILE:HA	5:L:120:ALA:CB	2.49	0.41
5:L:292:VAL:HG11	5:L:299:LYS:HE3	2.01	0.41
1:A:159:ILE:O	1:A:159:ILE:HG12	2.20	0.41
1:A:60:GLU:OE1	1:A:170:ARG:NH2	2.54	0.41
1:A:91:ARG:NH1	1:A:212:ASP:OD1	2.52	0.41
1:B:142:MET:CG	1:B:143:ARG:N	2.83	0.41
1:B:224:LEU:HA	1:B:224:LEU:HD13	1.86	0.41
2:C:1028:LYS:HB3	2:C:1028:LYS:HE2	1.90	0.41
2:C:1138:VAL:HG23	2:C:1139:ALA:H	1.85	0.41
2:C:103:VAL:HG12	2:C:116:ASP:HB2	2.02	0.41
2:C:1193:ALA:C	2:C:1195:ILE:N	2.73	0.41
2:C:1223:ARG:HA	2:C:1224:PRO:HD3	1.77	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:CB	2.34	0.41
2:C:1293:VAL:CG1	2:C:1304:MET:CB	2.94	0.41
2:C:131:THR:H	2:C:131:THR:HG1	1.59	0.41
2:C:202:ARG:NH1	2:C:369:MET:HG3	2.35	0.41
2:C:94:ALA:N	2:C:129:LEU:CD1	2.83	0.41
2:C:960:LEU:HA	2:C:963:GLU:CG	2.43	0.41
3:D:1140:ARG:NH2	3:D:1144:LEU:HD21	2.35	0.41
3:D:121:PRO:O	3:D:123:ARG:NE	2.53	0.41
3:D:215:LYS:HD2	3:D:219:LYS:HZ1	1.86	0.41
3:D:252:LEU:HD21	3:D:262:THR:CG2	2.50	0.41
3:D:276:ASN:O	3:D:279:LEU:HB3	2.20	0.41
3:D:457:TYR:O	3:D:458:ASN:CB	2.67	0.41
3:D:490:ILE:HA	3:D:500:ILE:HG12	2.03	0.41
3:D:654:ILE:O	3:D:658:GLU:N	2.47	0.41
3:D:680:ASN:O	3:D:684:ASP:OD1	2.38	0.41
3:D:811:GLU:HB2	3:D:890:THR:OG1	2.21	0.41
5:F:530:LEU:HA	5:F:530:LEU:HD22	1.40	0.41
1:G:154:PRO:HA	1:G:174:ASP:OD1	2.21	0.41
1:H:73:GLY:HA2	1:H:134:THR:CG2	2.51	0.41
2:I:1106:ARG:H	2:I:1106:ARG:CD	2.32	0.41
2:I:1239:VAL:HG13	2:I:1240:ASP:N	2.35	0.41
2:I:1317:PRO:HG2	2:I:1318:GLY:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:157:PHE:CD1	2:I:174:ALA:CB	3.03	0.41
2:I:174:ALA:N	2:I:186:PHE:O	2.53	0.41
2:I:517:GLN:HG2	2:I:759:SER:HB2	2.02	0.41
2:I:836:LEU:HB3	2:I:918:LEU:HD21	2.03	0.41
3:J:1167:LYS:HB3	3:J:1174:ARG:CD	2.51	0.41
3:J:1210:ILE:HD13	3:J:1210:ILE:N	2.35	0.41
3:J:1262:ARG:O	3:J:1279:GLN:HA	2.20	0.41
3:J:334:LYS:HA	3:J:1328:THR:CG2	2.41	0.41
3:J:42:GLU:CG	5:L:451:ARG:CG	2.98	0.41
3:J:480:ALA:O	3:J:485:MET:N	2.53	0.41
3:J:512:TYR:CD2	3:J:635:SER:HB2	2.56	0.41
3:J:813:ASP:HA	3:J:895:CYS:HB2	2.03	0.41
5:L:129:GLN:O	5:L:132:CYS:HB2	2.21	0.41
5:L:139:GLU:CA	5:L:142:THR:HG22	2.50	0.41
5:L:312:SER:OG	5:L:314:THR:HG23	2.20	0.41
5:L:371:LYS:O	5:L:374:ARG:HB3	2.21	0.41
5:L:518:HIS:N	5:L:521:ASP:OD2	2.53	0.41
1:A:190:ALA:CB	1:A:200:LYS:N	2.78	0.41
1:B:248:GLU:CG	1:B:249:PHE:H	2.34	0.41
2:C:1259:LEU:HA	2:C:1259:LEU:HD12	1.66	0.41
2:C:12:ARG:HG3	2:C:1181:PRO:HB2	2.02	0.41
2:C:1333:LEU:HD23	2:C:1333:LEU:HA	1.81	0.41
2:C:303:ASP:N	2:C:310:ILE:HG13	2.36	0.41
2:C:478:ARG:HH22	2:C:482:GLY:HA2	1.85	0.41
2:C:47:TYR:CD2	2:C:461:GLU:OE2	2.74	0.41
2:C:690:VAL:HG11	2:C:830:THR:OG1	2.21	0.41
2:C:690:VAL:HG13	2:C:691:PRO:N	2.36	0.41
2:C:10:ARG:NH1	2:C:697:LYS:HD3	2.36	0.41
3:D:120:LEU:HD13	3:D:120:LEU:C	2.41	0.41
3:D:265:LEU:HD13	3:D:327:LEU:CD2	2.49	0.41
3:D:369:PRO:O	3:D:370:LYS:C	2.59	0.41
3:D:47:ARG:HH12	5:F:496:LYS:CE	2.29	0.41
2:C:906:PHE:CZ	5:F:601:PRO:HG2	2.56	0.41
1:G:130:ILE:CD1	1:G:130:ILE:N	2.83	0.41
1:H:45:ARG:O	1:H:49:SER:HB2	2.20	0.41
2:I:807:TRP:CZ2	2:I:1084:ASP:O	2.74	0.41
2:I:1192:GLU:CA	2:I:1195:ILE:HD12	2.39	0.41
2:I:1214:ASP:C	2:I:1214:ASP:OD1	2.59	0.41
2:I:204:LEU:HA	2:I:204:LEU:HD23	1.70	0.41
2:I:471:VAL:O	2:I:474:ALA:N	2.53	0.41
2:I:5:TYR:C	2:I:7:GLU:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:658:GLN:O	2:I:661:VAL:HG22	2.21	0.41
2:I:517:GLN:HE21	2:I:759:SER:HA	1.86	0.41
3:J:1172:LYS:HA	3:J:1190:ILE:O	2.20	0.41
3:J:126:LEU:HD12	3:J:127:LEU:H	1.84	0.41
3:J:1280:VAL:HG11	3:J:1304:ARG:NE	2.36	0.41
3:J:334:LYS:C	3:J:1328:THR:HG1	2.23	0.41
3:J:188:LEU:HA	3:J:188:LEU:HD23	1.61	0.41
3:J:313:GLY:C	3:J:314:ARG:CG	2.88	0.41
3:J:372:MET:O	3:J:376:LEU:CB	2.69	0.41
3:J:422:LEU:CD1	3:J:422:LEU:N	2.84	0.41
3:J:615:LYS:CB	4:K:5:THR:HG21	2.51	0.41
3:J:896:ALA:O	3:J:899:TYR:HB3	2.21	0.41
3:J:918:ILE:O	3:J:918:ILE:HG12	2.21	0.41
5:L:115:GLY:HA2	5:L:118:ASP:HB3	2.02	0.41
5:L:124:GLU:HA	5:L:127:ILE:HG12	2.03	0.41
5:L:433:TRP:O	5:L:437:GLN:N	2.37	0.41
5:L:544:THR:HG1	5:L:545:HIS:H	1.68	0.41
5:L:584:ARG:C	5:L:586:ARG:N	2.74	0.41
1:A:123:ILE:HD13	1:A:123:ILE:HA	1.60	0.41
1:A:51:MET:HE1	1:A:216:ALA:HB1	2.02	0.41
1:B:10:LYS:HA	1:B:11:PRO:HD2	1.65	0.41
1:B:192:VAL:CB	1:B:195:ARG:HG3	2.44	0.41
1:B:281:LEU:HA	1:B:281:LEU:HD12	1.71	0.41
1:B:311:GLY:C	1:B:312:LEU:HD12	2.41	0.41
1:B:95:LYS:HE2	1:B:98:VAL:HG23	2.02	0.41
2:C:1287:LEU:O	2:C:1290:MET:N	2.53	0.41
2:C:1305:TYR:HE2	5:F:532:LEU:HA	1.85	0.41
2:C:247:ARG:HB2	2:C:274:ILE:HD11	2.03	0.41
2:C:516:ASP:C	2:C:518:ASN:OD1	2.58	0.41
2:C:660:VAL:HG22	2:C:661:VAL:HG13	2.02	0.41
2:C:778:GLU:N	2:C:781:ASP:OD1	2.35	0.41
2:C:817:LEU:HD23	2:C:1080:ASN:ND2	2.11	0.41
2:C:746:ALA:CB	2:C:974:ARG:HE	2.34	0.41
3:D:1237:VAL:HG13	3:D:1238:GLN:N	2.35	0.41
3:D:1328:THR:O	3:D:1330:ARG:N	2.53	0.41
3:D:1332:LEU:HD12	3:D:1332:LEU:HA	1.66	0.41
3:D:221:ILE:HA	3:D:224:LEU:HD13	2.03	0.41
3:D:336:GLY:HA2	3:D:337:ARG:HA	1.56	0.41
2:C:1269:ARG:CB	3:D:343:LEU:CD1	2.99	0.41
3:D:412:LEU:O	3:D:415:VAL:HG22	2.19	0.41
4:E:41:GLU:C	4:E:43:ASN:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:251:LYS:O	5:F:254:GLU:HB2	2.21	0.41
5:F:482:GLU:O	5:F:485:GLU:HB3	2.20	0.41
5:F:580:PHE:O	5:F:581:ASP:HB3	2.21	0.41
1:G:85:LEU:N	1:G:85:LEU:HD23	2.35	0.41
1:H:53:GLY:N	1:H:149:GLY:O	2.46	0.41
1:H:210:THR:OG1	1:H:211:ILE:N	2.54	0.41
2:I:106:GLU:CG	2:I:107:ARG:N	2.84	0.41
2:I:10:ARG:HD2	2:I:10:ARG:O	2.21	0.41
2:I:314:ASN:O	2:I:314:ASN:ND2	2.53	0.41
2:I:145:ILE:HG12	2:I:456:VAL:HG13	2.02	0.41
2:I:519:ASN:C	2:I:519:ASN:OD1	2.58	0.41
2:I:698:PRO:HB3	2:I:1231:TYR:CD1	2.52	0.41
2:I:865:LEU:HD22	2:I:870:ILE:N	2.36	0.41
2:I:890:LYS:HD2	2:I:891:GLY:N	2.35	0.41
3:J:1191:PRO:HB2	3:J:1194:ARG:HH11	1.85	0.41
3:J:1241:TYR:C	3:J:1244:GLN:H	2.19	0.41
3:J:802:ASP:CG	3:J:1325:PHE:CD1	2.94	0.41
3:J:1356:LEU:O	3:J:1366:HIS:CE1	2.74	0.41
3:J:146:VAL:HG12	3:J:147:ILE:N	2.36	0.41
3:J:252:LEU:HD23	3:J:262:THR:CB	2.51	0.41
2:I:1272:GLU:HB3	3:J:342:LEU:HG	2.00	0.41
3:J:394:ILE:C	3:J:394:ILE:HD12	2.41	0.41
3:J:423:LEU:HD11	3:J:447:ILE:CD1	2.51	0.41
3:J:624:ILE:HA	3:J:627:THR:HG22	2.02	0.41
3:J:709:ARG:C	3:J:711:GLY:N	2.73	0.41
5:L:394:TYR:CD2	5:L:439:ILE:HD11	2.54	0.41
5:L:537:THR:O	5:L:540:LEU:N	2.50	0.41
1:A:224:LEU:C	1:A:224:LEU:CD1	2.90	0.41
1:B:208:ASN:CG	1:B:210:THR:HG23	2.41	0.41
1:B:247:PRO:HA	1:B:248:GLU:HA	1.83	0.41
1:A:231:PHE:CE2	1:B:43:LEU:CD2	3.04	0.41
2:C:1005:GLU:HG2	2:C:1006:GLU:OE2	2.21	0.41
2:C:1068:GLY:HA3	2:C:1072:ASN:ND2	2.26	0.41
2:C:1148:ALA:O	2:C:1150:ASP:N	2.53	0.41
2:C:1236:ASN:CG	2:C:1236:ASN:O	2.59	0.41
2:C:1260:GLY:HA2	2:C:1265:PHE:HA	2.02	0.41
2:C:1315:MET:HE1	2:C:1317:PRO:HD3	2.03	0.41
2:C:1336:ASN:C	2:C:1336:ASN:OD1	2.59	0.41
2:C:302:ILE:HB	2:C:308:GLU:O	2.21	0.41
2:C:471:VAL:CG1	2:C:472:GLU:N	2.84	0.41
2:C:829:THR:HG22	2:C:830:THR:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:978:VAL:CG1	2:C:1011:LEU:HD21	2.51	0.41
3:D:1239:ASP:O	3:D:1243:LEU:HB2	2.21	0.41
3:D:1366:HIS:O	3:D:1369:ARG:N	2.48	0.41
3:D:1348:LYS:NZ	8:D:2004:4C4:O4	2.33	0.41
2:C:1335:ILE:HG21	3:D:22:ILE:HD11	2.03	0.41
3:D:352:ARG:HB3	3:D:467:ALA:HA	2.00	0.41
3:D:478:LEU:HD23	3:D:478:LEU:HA	1.54	0.41
3:D:500:ILE:HA	3:D:500:ILE:HD13	1.76	0.41
4:E:39:VAL:CG1	4:E:52:ARG:HH21	2.32	0.41
5:F:148:TYR:CD1	5:F:221:PHE:CZ	3.09	0.41
5:F:498:LEU:H	5:F:498:LEU:CD2	2.31	0.41
3:D:259:ARG:CD	5:F:504:PRO:HB2	2.51	0.41
1:G:178:SER:HA	1:G:179:PRO:HD3	1.70	0.41
1:G:207:THR:HG22	1:G:208:ASN:N	2.32	0.41
1:G:73:GLY:HA2	1:G:134:THR:CG2	2.51	0.41
1:H:101:THR:CA	1:H:143:ARG:HG2	2.45	0.41
1:H:192:VAL:HB	1:H:195:ARG:HB2	2.02	0.41
1:H:79:LEU:H	1:H:79:LEU:CD2	2.22	0.41
2:I:953:LEU:HD13	2:I:1033:ARG:HG3	2.03	0.41
2:I:1257:GLN:HA	2:I:1258:PRO:HD3	1.79	0.41
2:I:137:VAL:CG1	2:I:140:GLY:H	2.33	0.41
2:I:184:LEU:HD12	2:I:184:LEU:HA	1.16	0.41
2:I:397:LEU:N	2:I:397:LEU:CD1	2.84	0.41
2:I:557:ARG:HH21	2:I:607:SER:C	2.23	0.41
2:I:692:THR:H	2:I:692:THR:HG22	1.62	0.41
2:I:704:MET:O	2:I:707:ALA:N	2.53	0.41
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.86	0.41
2:I:796:LEU:N	2:I:796:LEU:CD1	2.82	0.41
2:I:82:VAL:O	2:I:85:CYS:HB2	2.20	0.41
3:J:1171:GLY:O	3:J:1191:PRO:HA	2.20	0.41
3:J:1241:TYR:CE2	3:J:1248:ILE:CD1	3.03	0.41
3:J:322:ARG:NH1	3:J:322:ARG:CB	2.84	0.41
3:J:432:LEU:C	3:J:434:ILE:H	2.23	0.41
3:J:492:SER:OG	3:J:495:ASN:OD1	2.24	0.41
3:J:641:ILE:CG2	3:J:642:ASP:N	2.84	0.41
3:J:890:THR:HG1	3:J:895:CYS:HB3	1.86	0.41
3:J:903:LEU:CB	3:J:905:ARG:O	2.69	0.41
5:L:123:ILE:HG22	5:L:127:ILE:HD11	2.02	0.41
1:B:91:ARG:HE	1:B:91:ARG:HB2	1.59	0.41
2:C:1038:GLN:CG	2:C:1038:GLN:O	2.68	0.41
2:C:74:ARG:NH1	2:C:121:GLU:CD	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1290:MET:HE2	2:C:1290:MET:HA	2.03	0.41
2:C:209:ILE:HA	2:C:212:ALA:CB	2.42	0.41
2:C:27:LEU:CA	2:C:528:ARG:HH12	2.34	0.41
2:C:383:SER:HA	2:C:386:GLU:HG2	2.03	0.41
2:C:452:ARG:HB2	2:C:586:PHE:CE2	2.56	0.41
2:C:551:HIS:CG	2:C:552:PRO:HD2	2.56	0.41
2:C:555:TYR:OH	2:C:618:GLN:NE2	2.44	0.41
2:C:726:TYR:CZ	2:C:728:ASP:HB2	2.55	0.41
2:C:726:TYR:OH	2:C:728:ASP:OD2	2.28	0.41
3:D:1135:THR:CG2	3:D:1140:ARG:HD3	2.49	0.41
3:D:1251:LYS:O	3:D:1255:VAL:CG1	2.69	0.41
3:D:309:ASN:H	3:D:326:SER:CB	2.34	0.41
3:D:415:VAL:CG2	3:D:416:ILE:N	2.83	0.41
3:D:522:GLY:O	3:D:523:GLU:C	2.59	0.41
3:D:659:ALA:O	3:D:660:GLU:C	2.59	0.41
3:D:749:LYS:CB	3:D:750:PRO:CD	2.95	0.41
3:D:883:ARG:NE	3:D:898:CYS:SG	2.93	0.41
2:C:1279:GLU:O	3:D:914:ALA:HB3	2.21	0.41
5:F:454:VAL:O	5:F:455:HIS:C	2.59	0.41
5:F:513:ASP:HA	5:F:516:ASP:CA	2.50	0.41
1:G:124:VAL:HG12	1:G:125:LYS:HG2	2.03	0.41
1:G:233:ASP:C	1:H:13:LEU:HD11	2.41	0.41
2:I:122:VAL:HG23	5:L:472:GLN:CG	2.51	0.41
2:I:295:LYS:HA	2:I:295:LYS:HD3	1.91	0.41
2:I:156:PHE:HE1	2:I:445:ILE:N	2.19	0.41
2:I:671:LEU:HA	2:I:671:LEU:HD12	1.75	0.41
2:I:919:ARG:NH1	2:I:919:ARG:HB3	2.35	0.41
3:J:1263:LYS:HE2	3:J:1279:GLN:NE2	2.31	0.41
3:J:1347:LEU:O	3:J:1350:ASN:N	2.46	0.41
3:J:1370:MET:HE1	3:J:1373:ARG:HH11	1.84	0.41
3:J:232:ASN:CA	3:J:236:TRP:CZ3	3.00	0.41
3:J:357:VAL:HB	3:J:358:GLY:H	1.47	0.41
3:J:358:GLY:H	3:J:359:PRO:CD	2.27	0.41
3:J:438:GLU:HA	3:J:439:PRO:HD3	1.84	0.41
3:J:514:THR:O	3:J:595:ALA:HA	2.20	0.41
3:J:930:LEU:HD23	3:J:1244:GLN:HG3	2.02	0.41
5:L:287:ILE:HD13	5:L:341:LEU:HD21	2.02	0.41
5:L:357:GLN:O	5:L:361:ILE:HG12	2.20	0.41
5:L:123:ILE:HG12	5:L:375:ALA:CB	2.51	0.41
3:J:263:SER:HA	5:L:507:MET:HE2	2.03	0.41
2:I:902:LEU:CD1	5:L:604:SER:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:LEU:HD13	1:A:201:LEU:HB2	2.03	0.41
1:B:201:LEU:HD12	1:B:201:LEU:HA	1.75	0.41
1:B:224:LEU:O	1:B:227:GLN:CB	2.65	0.41
1:B:264:VAL:HA	1:B:267:ALA:HB2	2.02	0.41
1:B:303:ILE:C	1:B:305:ASP:N	2.74	0.41
2:C:1018:TYR:C	2:C:1018:TYR:CD2	2.94	0.41
2:C:972:PHE:CE2	2:C:1018:TYR:HE1	2.39	0.41
2:C:820:GLU:CB	2:C:1080:ASN:O	2.68	0.41
2:C:1196:LYS:HB3	2:C:1206:THR:HG23	2.02	0.41
2:C:122:VAL:HG22	2:C:123:TYR:O	2.21	0.41
2:C:830:THR:HG22	2:C:1234:LYS:HZ1	1.85	0.41
2:C:1237:HIS:HB3	2:C:1242:LYS:CE	2.50	0.41
2:C:195:PHE:CD1	2:C:203:LYS:HD3	2.56	0.41
2:C:324:LYS:C	2:C:327:GLN:HG3	2.41	0.41
2:C:489:PRO:O	2:C:490:GLN:HB2	2.21	0.41
2:C:805:MET:HE1	3:D:633:ALA:O	2.21	0.41
2:C:820:GLU:O	2:C:824:GLN:HG3	2.22	0.41
2:C:828:PHE:HZ	2:C:1232:MET:O	2.03	0.41
3:D:1251:LYS:O	3:D:1255:VAL:HG12	2.21	0.41
3:D:103:GLY:CA	3:D:244:VAL:HG13	2.51	0.41
3:D:303:VAL:O	3:D:306:LEU:CB	2.69	0.41
3:D:536:LEU:HD12	3:D:541:LEU:HB2	2.03	0.41
3:D:59:ALA:O	3:D:60:ARG:C	2.58	0.41
3:D:501:VAL:CG2	3:D:602:SER:HB2	2.51	0.41
5:F:463:LEU:CD1	5:F:487:MET:HE3	2.51	0.41
5:F:462:LYS:NZ	5:F:487:MET:SD	2.93	0.41
1:G:121:VAL:CG1	1:G:123:ILE:CD1	2.98	0.41
2:I:1180:MET:HA	2:I:1181:PRO:HD3	1.77	0.41
2:I:327:GLN:CD	2:I:328:SER:N	2.75	0.41
2:I:314:ASN:ND2	2:I:352:ARG:NH1	2.69	0.41
2:I:588:GLU:HB3	2:I:607:SER:HA	2.03	0.41
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.51	0.41
2:I:994:ARG:HA	2:I:997:TRP:CG	2.56	0.41
2:I:994:ARG:HA	2:I:997:TRP:CD1	2.56	0.41
3:J:120:LEU:HD13	3:J:121:PRO:CD	2.51	0.41
3:J:159:ILE:O	3:J:160:LEU:HD23	2.20	0.41
3:J:227:PHE:HE1	3:J:234:PRO:N	2.19	0.41
3:J:327:LEU:C	3:J:329:ASP:N	2.75	0.41
3:J:371:LYS:O	3:J:374:LEU:HB3	2.20	0.41
3:J:398:LYS:O	3:J:402:GLU:HB2	2.21	0.41
3:J:476:ALA:HA	3:J:479:GLU:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:432:LEU:CD2	3:J:489:ASN:HB3	2.47	0.41
3:J:40:LYS:O	3:J:55:GLY:HA2	2.21	0.41
3:J:563:LEU:H	3:J:563:LEU:CD1	2.22	0.41
3:J:627:THR:CG2	3:J:628:GLY:N	2.82	0.41
3:J:712:GLN:HG2	3:J:712:GLN:H	1.67	0.41
3:J:826:ILE:O	3:J:828:GLY:N	2.54	0.41
3:J:842:ARG:NH2	3:J:884:SER:HA	2.36	0.41
3:J:903:LEU:CB	3:J:905:ARG:CG	2.96	0.41
3:J:903:LEU:HD13	3:J:909:ILE:CD1	2.51	0.41
4:K:14:GLY:C	4:K:16:ARG:N	2.70	0.41
4:K:32:VAL:C	4:K:34:GLY:H	2.24	0.41
4:K:7:GLN:O	4:K:11:GLU:N	2.50	0.41
5:L:348:GLU:CG	5:L:355:ILE:HG12	2.51	0.41
5:L:544:THR:C	5:L:546:ASP:N	2.73	0.41
1:A:33:ARG:C	1:A:35:PHE:H	2.24	0.40
1:B:106:GLY:O	1:B:133:LEU:HD23	2.21	0.40
1:B:11:PRO:O	1:B:12:ARG:CB	2.69	0.40
1:B:31:LEU:HB2	1:B:199:ASP:O	2.21	0.40
2:C:296:VAL:CB	2:C:336:LEU:HD12	2.39	0.40
2:C:390:PHE:HA	2:C:419:ILE:CG2	2.51	0.40
2:C:393:ASP:OD1	2:C:394:ARG:HD3	2.21	0.40
2:C:59:ILE:HD11	2:C:472:GLU:HB2	2.02	0.40
2:C:625:GLU:HB3	2:C:626:GLU:OE2	2.21	0.40
2:C:800:MET:HE1	2:C:822:VAL:HG22	2.02	0.40
2:C:894:GLN:HA	2:C:894:GLN:OE1	2.21	0.40
3:D:1241:TYR:HD2	3:D:1246:VAL:HG11	1.85	0.40
3:D:1261:LEU:HD13	3:D:1304:ARG:NH1	2.35	0.40
3:D:198:CYS:HB3	3:D:221:ILE:HD11	2.03	0.40
3:D:37:GLU:HG2	3:D:38:VAL:O	2.22	0.40
3:D:510:LEU:O	3:D:511:TYR:C	2.58	0.40
3:D:515:ARG:HG3	3:D:516:ASP:N	2.35	0.40
3:D:527:LEU:HD23	3:D:532:GLU:HG3	2.02	0.40
3:D:640:GLY:O	3:D:641:ILE:C	2.58	0.40
3:D:519:ASN:CG	3:D:709:ARG:HD3	2.42	0.40
3:D:749:LYS:HB2	3:D:750:PRO:HD2	2.01	0.40
3:D:867:GLN:O	3:D:870:ASP:N	2.54	0.40
3:D:880:VAL:HG12	3:D:882:VAL:HG23	2.02	0.40
3:D:915:ILE:H	3:D:915:ILE:HG12	1.64	0.40
5:F:416:VAL:HG13	5:F:417:ASP:OD1	2.21	0.40
5:F:428:SER:C	5:F:430:TYR:H	2.25	0.40
5:F:505:ILE:CG1	5:F:506:SER:N	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:159:ILE:HG23	1:G:159:ILE:O	2.22	0.40
1:G:31:LEU:HA	1:G:31:LEU:HD23	1.86	0.40
1:G:45:ARG:HG3	1:G:46:ILE:CD1	2.45	0.40
1:G:79:LEU:CD1	1:G:83:LEU:CD2	2.99	0.40
1:H:18:GLN:HA	1:H:24:ALA:HA	2.01	0.40
1:H:59:VAL:HG12	1:H:61:ILE:HD13	2.03	0.40
2:I:14:ASP:OD2	2:I:1156:ARG:HD3	2.21	0.40
2:I:656:SER:OG	2:I:657:THR:N	2.55	0.40
2:I:705:GLU:O	2:I:794:LEU:N	2.53	0.40
2:I:782:VAL:HG21	2:I:792:GLY:HA3	2.03	0.40
2:I:817:LEU:HD13	2:I:1097:VAL:CG2	2.50	0.40
2:I:974:ARG:HB3	2:I:1014:LEU:CD2	2.49	0.40
3:J:1308:GLY:O	3:J:1309:ILE:C	2.59	0.40
3:J:1356:LEU:HD22	3:J:1357:ILE:O	2.21	0.40
3:J:450:HIS:CE1	3:J:452:LEU:HG	2.57	0.40
3:J:518:VAL:HB	3:J:707:ILE:HD13	2.03	0.40
3:J:754:ILE:HG22	3:J:754:ILE:H	1.52	0.40
2:I:673:HIS:CE1	3:J:765:GLU:C	2.94	0.40
3:J:783:LEU:O	3:J:787:ALA:HB2	2.21	0.40
3:J:931:THR:O	3:J:931:THR:HG22	2.20	0.40
4:K:22:VAL:HG12	4:K:54:ILE:CD1	2.51	0.40
5:L:124:GLU:HA	5:L:127:ILE:CG1	2.51	0.40
5:L:274:ARG:O	5:L:278:ASP:N	2.51	0.40
5:L:324:LYS:HB3	5:L:325:PRO:HD2	2.03	0.40
1:A:82:LEU:HD13	1:A:173:VAL:CG1	2.52	0.40
1:A:37:HIS:CD2	1:A:187:VAL:CG2	3.03	0.40
1:B:133:LEU:CD1	1:B:133:LEU:N	2.85	0.40
2:C:1099:ASN:OD1	2:C:1101:LEU:HB2	2.21	0.40
2:C:1198:LEU:HA	2:C:1198:LEU:HD22	1.83	0.40
2:C:1315:MET:HE1	2:C:1317:PRO:HB3	2.03	0.40
2:C:138:ILE:HG22	2:C:139:ASN:N	2.35	0.40
2:C:59:ILE:CD1	2:C:475:VAL:CG2	2.93	0.40
2:C:602:GLU:HG3	2:C:602:GLU:O	2.20	0.40
3:D:1171:GLY:HA2	3:D:1193:TRP:CZ3	2.57	0.40
3:D:1164:SER:OG	3:D:1176:VAL:O	2.33	0.40
3:D:1284:ARG:HA	3:D:1287:ILE:HD11	2.03	0.40
3:D:14:THR:CG2	3:D:15:GLU:N	2.83	0.40
3:D:101:ARG:O	3:D:246:PRO:HG3	2.20	0.40
3:D:294:ASN:HA	3:D:297:ARG:NH2	2.36	0.40
3:D:494:ALA:HB3	3:D:495:ASN:OD1	2.21	0.40
3:D:678:ARG:O	3:D:679:TYR:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:814:CYS:H	3:D:895:CYS:HB2	1.82	0.40
3:D:94:GLN:NE2	3:D:96:LYS:HB2	2.36	0.40
5:F:361:ILE:CG1	5:F:362:ASN:H	2.34	0.40
1:G:196:THR:OG1	1:G:197:ASP:N	2.55	0.40
1:G:218:ARG:HD3	1:H:233:ASP:C	2.42	0.40
2:I:104:ILE:O	2:I:114:VAL:N	2.45	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:CB	2.34	0.40
2:I:13:LYS:HD2	2:I:1157:GLN:OE1	2.22	0.40
2:I:494:ASN:OD1	2:I:497:PRO:HD3	2.21	0.40
2:I:564:PRO:CD	2:I:572:ILE:HB	2.51	0.40
2:I:653:MET:HG2	2:I:654:ASP:N	2.36	0.40
2:I:744:GLY:CA	2:I:1013:GLN:HB3	2.51	0.40
2:I:903:ARG:HE	2:I:910:ALA:HB2	1.86	0.40
2:I:91:THR:HB	2:I:138:ILE:O	2.21	0.40
3:J:1269:ALA:HB2	3:J:1274:PHE:CE1	2.56	0.40
3:J:1327:GLU:O	3:J:1328:THR:C	2.60	0.40
3:J:1359:ALA:O	3:J:1360:GLY:C	2.59	0.40
3:J:691:ASP:O	3:J:694:SER:HB3	2.21	0.40
3:J:848:VAL:HB	3:J:857:LEU:HD11	2.03	0.40
3:D:1371:ARG:HE	3:J:854:ALA:HA	1.85	0.40
3:J:885:VAL:HG12	3:J:894:VAL:HG13	2.03	0.40
3:J:812:ASP:O	3:J:895:CYS:HB2	2.21	0.40
5:L:116:GLU:CB	5:L:117:ILE:HD12	2.50	0.40
5:L:139:GLU:C	5:L:141:ILE:N	2.70	0.40
5:L:381:GLU:HA	5:L:384:LEU:HD11	2.03	0.40
5:L:392:LYS:O	5:L:395:THR:HG23	2.21	0.40
5:L:448:ARG:HD2	5:L:452:ILE:HB	2.03	0.40
5:L:479:THR:HG1	5:L:482:GLU:HB2	1.86	0.40
5:L:507:MET:HE2	5:L:507:MET:HB2	1.78	0.40
1:A:60:GLU:N	1:A:143:ARG:O	2.50	0.40
1:A:152:TYR:HD1	2:C:824:GLN:CD	2.24	0.40
1:A:124:VAL:HG21	1:A:209:GLY:C	2.41	0.40
1:A:23:HIS:HA	1:A:206:GLU:HA	2.03	0.40
1:B:55:ALA:HB2	1:B:176:CYS:C	2.40	0.40
1:B:215:GLU:HG2	1:B:216:ALA:H	1.87	0.40
1:B:54:CYS:SG	1:B:148:ARG:HG3	2.62	0.40
2:C:1164:PHE:C	2:C:1166:ASP:N	2.70	0.40
2:C:1064:ASP:OD1	2:C:1239:VAL:HG12	2.22	0.40
2:C:543:ALA:HB1	2:C:547:VAL:CG2	2.52	0.40
2:C:811:ASN:HB2	2:C:815:SER:O	2.20	0.40
3:D:1159:ILE:HD12	3:D:1160:SER:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1156:LEU:CD1	3:D:1209:VAL:HA	2.48	0.40
3:D:1237:VAL:HG13	3:D:1238:GLN:HG2	2.03	0.40
3:D:212:THR:HA	3:D:215:LYS:HZ1	1.85	0.40
3:D:425:ARG:HH11	3:D:459:ALA:CB	2.35	0.40
3:D:501:VAL:HG22	3:D:502:PRO:N	2.36	0.40
3:D:58:CYS:SG	3:D:60:ARG:CB	3.06	0.40
3:D:703:THR:C	3:D:705:THR:N	2.74	0.40
3:D:753:SER:OG	3:D:753:SER:O	2.39	0.40
3:D:79:LYS:O	3:D:81:ARG:HG2	2.21	0.40
5:F:249:ILE:O	5:F:253:SER:OG	2.39	0.40
5:F:419:PHE:CD1	5:F:430:TYR:CD2	3.09	0.40
5:F:412:LEU:HB2	5:F:435:ILE:HD11	2.03	0.40
5:F:484:ALA:HA	5:F:494:ILE:HD11	2.04	0.40
5:F:500:ILE:CG2	5:F:500:ILE:O	2.68	0.40
5:F:598:LEU:CA	5:F:601:PRO:HG3	2.51	0.40
2:I:1099:ASN:HA	2:I:1100:PRO:HD3	1.73	0.40
2:I:1145:ILE:CG2	2:I:1146:GLN:N	2.77	0.40
2:I:690:VAL:HG23	2:I:1236:ASN:HB3	2.02	0.40
2:I:155:VAL:HG23	2:I:176:ILE:HG12	2.02	0.40
2:I:209:ILE:O	2:I:209:ILE:HG12	2.21	0.40
2:I:540:ARG:HE	2:I:568:ASN:CB	2.34	0.40
2:I:592:ARG:O	2:I:652:TYR:HD2	2.04	0.40
2:I:728:ASP:C	2:I:730:SER:N	2.75	0.40
2:I:850:ILE:HD13	2:I:886:LYS:HB2	2.02	0.40
2:I:858:GLY:O	2:I:861:ALA:N	2.49	0.40
2:I:964:LEU:HA	2:I:964:LEU:HD12	1.86	0.40
3:J:1238:GLN:NE2	3:J:1248:ILE:O	2.44	0.40
3:J:1264:ALA:CB	3:J:1280:VAL:HG22	2.50	0.40
3:J:24:LEU:CD2	3:J:1337:VAL:HA	2.52	0.40
3:J:403:ARG:O	3:J:404:GLU:HB2	2.22	0.40
3:J:474:LEU:O	3:J:475:GLU:C	2.58	0.40
3:J:868:TRP:HE3	3:J:868:TRP:HA	1.87	0.40
4:K:17:PHE:O	4:K:19:LEU:N	2.53	0.40
5:L:340:ALA:O	5:L:344:LEU:HB2	2.22	0.40
5:L:387:VAL:CG2	5:L:435:ILE:HD13	2.49	0.40
5:L:601:PRO:C	5:L:603:ARG:N	2.74	0.40
1:A:110:VAL:HG21	1:A:140:ILE:HD11	2.03	0.40
1:B:81:ILE:CD1	1:B:131:CYS:HB3	2.52	0.40
1:B:149:GLY:O	1:B:177:TYR:HB3	2.22	0.40
1:B:192:VAL:HG23	1:B:198:LEU:HD23	2.03	0.40
1:B:215:GLU:O	1:B:218:ARG:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:LEU:HG	1:B:315:GLY:N	2.36	0.40
2:C:1080:ASN:HB2	2:C:1085:MET:CE	2.52	0.40
2:C:1132:LEU:HD22	2:C:1177:ARG:CZ	2.50	0.40
2:C:1210:ILE:HD12	2:C:1227:VAL:HG22	2.04	0.40
2:C:1287:LEU:HD23	2:C:1287:LEU:C	2.40	0.40
2:C:1293:VAL:O	2:C:1293:VAL:HG12	2.21	0.40
2:C:403:MET:HA	2:C:414:ILE:O	2.21	0.40
2:C:402:ARG:NH2	2:C:424:ASP:OD2	2.46	0.40
2:C:513:GLN:HE21	2:C:513:GLN:HB3	1.59	0.40
2:C:452:ARG:HB2	2:C:586:PHE:CD2	2.57	0.40
2:C:607:SER:O	2:C:608:ALA:C	2.59	0.40
2:C:631:GLU:HB3	2:C:633:LEU:H	1.87	0.40
2:C:746:ALA:HB2	2:C:974:ARG:CZ	2.52	0.40
3:D:1262:ARG:NH2	3:D:1312:ALA:C	2.74	0.40
3:D:1322:ALA:CA	3:D:1325:PHE:CE1	2.97	0.40
3:D:474:LEU:HA	3:D:474:LEU:HD12	1.07	0.40
3:D:71:LEU:HB3	3:D:88:CYS:SG	2.61	0.40
3:D:679:TYR:OH	3:D:754:ILE:HG23	2.21	0.40
3:D:919:ALA:O	3:D:920:ALA:C	2.59	0.40
4:E:36:ASP:CB	4:E:37:PRO:CD	2.81	0.40
5:F:387:VAL:HG22	5:F:435:ILE:CD1	2.51	0.40
2:I:1122:LYS:CB	2:I:1229:TYR:HE1	2.35	0.40
2:I:1254:VAL:HG22	2:I:1255:THR:N	2.35	0.40
2:I:1285:TYR:O	2:I:1287:LEU:N	2.54	0.40
2:I:12:ARG:NH1	2:I:701:GLY:HA3	2.37	0.40
2:I:157:PHE:CE1	2:I:174:ALA:HB1	2.57	0.40
2:I:210:LEU:HD23	2:I:210:LEU:HA	1.63	0.40
2:I:582:ASN:ND2	2:I:586:PHE:HB2	2.31	0.40
2:I:74:ARG:HH12	2:I:97:ARG:CG	2.34	0.40
2:I:819:SER:C	2:I:821:ARG:N	2.74	0.40
2:I:881:ASP:N	2:I:881:ASP:OD1	2.55	0.40
2:I:882:ILE:HD12	2:I:882:ILE:N	2.35	0.40
2:I:976:ARG:NH2	2:I:986:ALA:O	2.51	0.40
3:J:139:LEU:HB3	3:J:140:TYR:CE1	2.56	0.40
3:J:145:VAL:C	3:J:178:ALA:HB1	2.42	0.40
3:J:169:LEU:HD23	3:J:169:LEU:HA	1.74	0.40
3:J:181:GLY:O	3:J:182:ALA:C	2.59	0.40
3:J:506:VAL:HG22	3:J:507:VAL:N	2.36	0.40
3:J:543:SER:OG	3:J:545:HIS:ND1	2.54	0.40
3:J:793:SER:HA	3:J:796:LEU:HB3	2.03	0.40
3:J:836:ARG:NH2	3:J:870:ASP:OD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:94:GLN:HG3	3:J:94:GLN:H	1.73	0.40
5:L:231:THR:HG21	5:L:249:ILE:HA	2.03	0.40
5:L:360:ASP:O	5:L:363:ARG:HB3	2.21	0.40
5:L:389:SER:O	5:L:392:LYS:CB	2.69	0.40
5:L:461:ASN:O	5:L:465:ARG:CB	2.70	0.40
5:L:498:LEU:HA	5:L:498:LEU:HD13	1.61	0.40
1:A:22:THR:O	1:A:206:GLU:HA	2.21	0.40
1:A:38:THR:HA	1:B:45:ARG:HD3	2.04	0.40
1:B:182:ARG:CG	1:B:182:ARG:HH11	2.29	0.40
1:B:85:LEU:H	1:B:85:LEU:HD23	1.84	0.40
2:C:1099:ASN:HA	2:C:1100:PRO:HD3	1.35	0.40
2:C:1172:LEU:HD22	2:C:1172:LEU:O	2.22	0.40
2:C:1319:MET:HG3	2:C:1320:PRO:CD	2.52	0.40
2:C:180:ARG:CG	2:C:181:GLY:N	2.85	0.40
2:C:211:ARG:NH2	2:C:351:LEU:CD2	2.85	0.40
2:C:324:LYS:CA	2:C:327:GLN:HG3	2.52	0.40
2:C:665:ALA:O	2:C:668:ILE:N	2.47	0.40
2:C:685:MET:O	2:C:1235:LEU:HD11	2.22	0.40
2:C:720:ARG:HB2	2:C:736:VAL:HG13	2.03	0.40
2:C:843:THR:O	2:C:846:GLY:N	2.55	0.40
2:C:873:ILE:H	2:C:873:ILE:HG13	1.77	0.40
3:D:1220:ILE:O	3:D:1224:ARG:N	2.55	0.40
3:D:1231:ARG:HB3	3:D:1231:ARG:CZ	2.52	0.40
3:D:1249:ASN:OD1	3:D:1249:ASN:C	2.59	0.40
3:D:1262:ARG:HH11	3:D:1262:ARG:HB2	1.86	0.40
3:D:215:LYS:O	3:D:219:LYS:HB2	2.20	0.40
2:C:1272:GLU:HB2	3:D:342:LEU:HB2	2.03	0.40
3:D:53:ARG:NH1	3:D:60:ARG:CD	2.85	0.40
3:D:697:MET:HG3	3:D:698:MET:H	1.83	0.40
3:D:821:MET:HE3	3:D:879:ALA:HB1	2.04	0.40
4:E:63:ILE:H	4:E:63:ILE:HD12	1.87	0.40
5:F:147:GLN:HA	5:F:150:ARG:HB2	2.03	0.40
5:F:400:GLN:HG2	5:F:400:GLN:H	1.65	0.40
5:F:482:GLU:O	5:F:485:GLU:CB	2.70	0.40
5:F:555:GLU:O	5:F:558:VAL:N	2.47	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:HB3	1.87	0.40
1:H:74:VAL:HG12	1:H:76:GLU:H	1.86	0.40
2:I:175:ARG:HB2	2:I:175:ARG:HE	1.74	0.40
2:I:237:LEU:HA	2:I:237:LEU:HD13	1.54	0.40
2:I:397:LEU:O	2:I:398:SER:CB	2.70	0.40
2:I:400:VAL:H	2:I:400:VAL:HG23	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:463:GLN:NE2	2:I:501:ALA:HB1	2.36	0.40
2:I:617:ALA:CB	2:I:653:MET:HA	2.50	0.40
2:I:520:PRO:CG	2:I:714:VAL:HG21	2.51	0.40
2:I:804:PHE:CE1	2:I:1098:LEU:CD2	3.05	0.40
3:J:1138:LEU:O	3:J:1141:VAL:HB	2.22	0.40
3:J:1289:ASN:CG	3:J:1290:ARG:HH12	2.25	0.40
3:J:22:ILE:HD11	3:J:1336:ALA:HB2	2.03	0.40
3:J:57:PHE:CE1	3:J:252:LEU:HB2	2.56	0.40
5:L:385:ARG:O	5:L:388:ILE:HB	2.22	0.40
5:L:502:LYS:HB3	5:L:504:PRO:CB	2.51	0.40
5:L:549:ALA:C	5:L:551:LEU:H	2.25	0.40

All (2) 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)
3:D:170:GLU:OE1	3:J:165:TYR:OH[3_444]	2.04	0.16
2:C:44:GLU:OE1	5:F:599:ARG:NE[4_445]	2.09	0.11

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/329 (69%)	179 (79%)	35 (15%)	13 (6%)	1	21
1	B	283/329 (86%)	167 (59%)	60 (21%)	56 (20%)	0	2
1	G	225/329 (68%)	177 (79%)	40 (18%)	8 (4%)	3	29
1	H	212/329 (64%)	170 (80%)	35 (16%)	7 (3%)	4	31
2	C	1338/1342 (100%)	1019 (76%)	256 (19%)	63 (5%)	2	24
2	I	1338/1342 (100%)	1031 (77%)	261 (20%)	46 (3%)	3	30
3	D	1162/1407 (83%)	850 (73%)	234 (20%)	78 (7%)	1	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	J	1151/1407 (82%)	851 (74%)	232 (20%)	68 (6%)	1	20
4	E	87/91 (96%)	69 (79%)	14 (16%)	4 (5%)	2	24
4	K	77/91 (85%)	61 (79%)	13 (17%)	3 (4%)	3	27
5	F	454/613 (74%)	342 (75%)	89 (20%)	23 (5%)	2	23
5	L	454/613 (74%)	336 (74%)	94 (21%)	24 (5%)	2	22
All	All	7008/8222 (85%)	5252 (75%)	1363 (19%)	393 (6%)	2	21

All (393) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	136	GLU
1	A	162	GLU
1	B	11	PRO
1	B	12	ARG
1	B	44	ARG
1	B	45	ARG
1	B	82	LEU
1	B	121	VAL
1	B	156	SER
1	B	158	ARG
1	B	214	GLU
1	B	215	GLU
1	B	216	ALA
1	B	229	GLU
1	B	272	ALA
1	B	273	GLU
1	B	276	HIS
1	B	298	LYS
1	B	305	ASP
2	C	36	GLN
2	C	40	GLU
2	C	160	ASP
2	C	162	GLY
2	C	169	LYS
2	C	170	VAL
2	C	298	ALA
2	C	417	SER
2	C	482	GLY
2	C	484	LEU
2	C	490	GLN

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Mol	Chain	Res	Type
2	C	510	GLN
2	C	647	ARG
2	C	714	VAL
2	C	1030	GLU
2	C	1107	MET
2	C	1159	VAL
2	C	1165	SER
2	C	1317	PRO
3	D	10	ALA
3	D	46	TYR
3	D	49	PHE
3	D	89	GLY
3	D	119	SER
3	D	120	LEU
3	D	248	ASP
3	D	334	LYS
3	D	335	GLN
3	D	343	LEU
3	D	345	LYS
3	D	426	ALA
3	D	496	GLY
3	D	521	LYS
3	D	590	SER
3	D	614	LEU
3	D	660	GLU
3	D	705	THR
3	D	745	GLY
3	D	751	ASP
3	D	776	THR
3	D	777	HIS
3	D	804	ALA
3	D	806	ASP
3	D	826	ILE
3	D	828	GLY
3	D	831	VAL
3	D	850	LYS
3	D	899	TYR
3	D	1169	THR
3	D	1293	GLU
3	D	1294	ALA
4	E	25	ARG
4	E	33	GLY

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Mol	Chain	Res	Type
5	F	107	THR
5	F	108	VAL
5	F	113	ARG
5	F	241	SER
5	F	422	ARG
5	F	475	GLY
5	F	486	ARG
5	F	490	PRO
5	F	513	ASP
5	F	582	VAL
5	F	601	PRO
1	G	162	GLU
1	G	177	TYR
1	G	229	GLU
1	G	232	VAL
1	H	11	PRO
1	H	193	GLU
2	I	160	ASP
2	I	162	GLY
2	I	164	THR
2	I	169	LYS
2	I	170	VAL
2	I	298	ALA
2	I	482	GLY
2	I	490	GLN
2	I	688	GLN
2	I	1073	LYS
2	I	1107	MET
2	I	1151	LEU
2	I	1153	ALA
2	I	1159	VAL
2	I	1165	SER
2	I	1245	ALA
2	I	1283	ALA
2	I	1317	PRO
3	J	17	PHE
3	J	49	PHE
3	J	120	LEU
3	J	151	MET
3	J	182	ALA
3	J	334	LYS
3	J	335	GLN

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Mol	Chain	Res	Type
3	J	343	LEU
3	J	345	LYS
3	J	357	VAL
3	J	426	ALA
3	J	496	GLY
3	J	503	SER
3	J	614	LEU
3	J	710	ASP
3	J	745	GLY
3	J	751	ASP
3	J	769	VAL
3	J	804	ALA
3	J	828	GLY
3	J	831	VAL
3	J	850	LYS
3	J	868	TRP
3	J	899	TYR
3	J	1294	ALA
3	J	1326	GLN
4	K	15	ASN
4	K	25	ARG
4	K	33	GLY
5	L	107	THR
5	L	108	VAL
5	L	113	ARG
5	L	241	SER
5	L	475	GLY
5	L	490	PRO
5	L	513	ASP
5	L	564	GLY
5	L	582	VAL
5	L	601	PRO
1	A	30	PRO
1	A	157	THR
1	A	177	TYR
1	A	196	THR
1	B	16	ILE
1	B	36	GLY
1	B	46	ILE
1	B	78	ILE
1	B	86	LYS
1	B	93	GLN

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Mol	Chain	Res	Type
1	B	135	ASP
1	B	154	PRO
1	B	159	ILE
1	B	179	PRO
1	B	226	GLU
1	B	228	LEU
1	B	232	VAL
1	B	251	PRO
1	B	257	VAL
1	B	279	GLY
1	B	281	LEU
1	B	293	PRO
2	C	164	THR
2	C	276	GLN
2	C	491	ASP
2	C	596	ASP
2	C	666	SER
2	C	687	ARG
2	C	756	TYR
2	C	820	GLU
2	C	907	GLY
2	C	1029	LEU
2	C	1106	ARG
2	C	1109	ILE
2	C	1151	LEU
2	C	1245	ALA
3	D	16	GLU
3	D	300	GLN
3	D	328	ALA
3	D	336	GLY
3	D	417	ARG
3	D	431	ARG
3	D	503	SER
3	D	523	GLU
3	D	559	ALA
3	D	584	PRO
3	D	626	TYR
3	D	710	ASP
3	D	1297	LYS
3	D	1314	LEU
5	F	401	PHE
5	F	516	ASP

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Mol	Chain	Res	Type
5	F	564	GLY
1	G	14	VAL
1	G	167	PRO
2	I	36	GLN
2	I	276	GLN
2	I	484	LEU
2	I	523	GLU
2	I	756	TYR
2	I	1154	ASP
2	I	1247	SER
3	J	46	TYR
3	J	80	HIS
3	J	89	GLY
3	J	248	ASP
3	J	270	ARG
3	J	328	ALA
3	J	349	TYR
3	J	428	THR
3	J	584	PRO
3	J	626	TYR
3	J	660	GLU
3	J	705	THR
3	J	1314	LEU
5	L	139	GLU
5	L	401	PHE
5	L	402	LEU
5	L	422	ARG
5	L	476	ARG
5	L	486	ARG
1	A	62	ASP
1	A	134	THR
1	A	167	PRO
1	B	20	SER
1	B	138	ALA
1	B	157	THR
1	B	193	GLU
1	B	213	PRO
2	C	299	LYS
2	C	745	GLU
2	C	812	PHE
2	C	1207	SER
2	C	1295	SER

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Mol	Chain	Res	Type
3	D	17	PHE
3	D	151	MET
3	D	182	ALA
3	D	196	GLN
3	D	352	ARG
3	D	428	THR
3	D	538	ARG
3	D	877	VAL
3	D	1281	GLU
1	H	229	GLU
2	I	573	ASN
2	I	666	SER
2	I	1059	ARG
2	I	1192	GLU
3	J	300	GLN
3	J	523	GLU
3	J	538	ARG
3	J	560	ASN
3	J	696	ALA
3	J	801	VAL
3	J	809	VAL
3	J	1297	LYS
3	J	1349	GLU
5	L	140	ALA
5	L	544	THR
5	L	560	ARG
1	A	195	ARG
1	B	49	SER
1	B	85	LEU
1	B	136	GLU
1	B	219	ARG
1	B	261	GLU
1	B	304	LYS
2	C	465	ARG
2	C	485	ASP
2	C	541	GLU
2	C	600	THR
2	C	686	GLN
2	C	1043	ALA
2	C	1256	GLN
3	D	98	ARG
3	D	341	ASN

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Mol	Chain	Res	Type
3	D	358	GLY
3	D	696	ALA
3	D	809	VAL
3	D	868	TRP
3	D	1289	ASN
5	F	502	LYS
5	F	581	ASP
1	H	20	SER
1	H	138	ALA
2	I	698	PRO
2	I	812	PHE
2	I	813	GLU
2	I	1256	GLN
2	I	1261	GLY
3	J	322	ARG
3	J	352	ARG
3	J	429	LEU
3	J	559	ALA
3	J	712	GLN
3	J	721	SER
3	J	877	VAL
3	J	1284	ARG
3	J	1328	THR
5	L	116	GLU
5	L	504	PRO
1	A	14	VAL
1	B	37	HIS
1	B	99	ILE
1	B	313	SER
2	C	15	PHE
2	C	120	GLN
2	C	508	SER
2	C	608	ALA
2	C	696	ASP
2	C	897	PRO
2	C	1192	GLU
2	C	1326	LEU
3	D	13	LYS
3	D	79	LYS
3	D	232	ASN
3	D	270	ARG
3	D	322	ARG

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Mol	Chain	Res	Type
3	D	704	GLU
3	D	769	VAL
3	D	851	PRO
3	D	1157	ALA
4	E	69	ARG
5	F	428	SER
5	F	578	LYS
2	I	159	SER
2	I	572	ILE
2	I	907	GLY
2	I	1286	THR
3	J	454	CYS
3	J	618	VAL
3	J	1169	THR
5	L	575	GLU
5	L	581	ASP
1	B	144	ILE
1	B	178	SER
1	B	217	ILE
1	B	247	PRO
2	C	342	ASP
2	C	398	SER
2	C	460	ALA
2	C	464	PHE
2	C	697	LYS
3	D	80	HIS
3	D	618	VAL
3	D	650	LYS
3	D	694	SER
4	E	16	ARG
5	F	116	GLU
5	F	519	LEU
1	G	62	ASP
1	G	156	SER
1	H	41	ASN
2	I	237	LEU
2	I	596	ASP
2	I	1164	PHE
3	J	87	LYS
3	J	417	ARG
3	J	749	LYS
3	J	1361	THR

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Mol	Chain	Res	Type
5	L	502	LYS
1	B	74	VAL
3	D	439	PRO
3	J	344	GLY
2	C	208	ILE
2	C	570	GLY
2	C	983	GLY
2	C	1103	VAL
2	I	530	ILE
2	I	921	PRO
2	I	983	GLY
3	J	829	GLY
3	J	851	PRO
1	B	119	GLY
3	D	357	VAL
5	F	505	ILE
3	J	1360	GLY
1	A	78	ILE
1	B	98	VAL
2	C	905	ILE
3	D	303	VAL
5	F	127	ILE
2	I	552	PRO
1	A	29	GLU
1	H	107	ILE
2	I	524	ILE
5	F	504	PRO

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 X-ray entries followed by that with respect to entries of similar resolution.

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	197/286 (69%)	164 (83%)	33 (17%)	2	14
1	B	250/286 (87%)	169 (68%)	81 (32%)	0	2
1	G	193/286 (68%)	171 (89%)	22 (11%)	5	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	183/286 (64%)	149 (81%)	34 (19%)	1	11
2	C	1154/1157 (100%)	982 (85%)	172 (15%)	3	18
2	I	1151/1157 (100%)	987 (86%)	164 (14%)	3	20
3	D	963/1168 (82%)	768 (80%)	195 (20%)	1	9
3	J	965/1168 (83%)	780 (81%)	185 (19%)	1	10
4	E	72/75 (96%)	65 (90%)	7 (10%)	8	33
4	K	67/75 (89%)	60 (90%)	7 (10%)	7	30
5	F	406/540 (75%)	346 (85%)	60 (15%)	3	18
5	L	385/540 (71%)	339 (88%)	46 (12%)	5	25
All	All	5986/7024 (85%)	4980 (83%)	1006 (17%)	2	14

All (1006) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	8	PHE
1	A	11	PRO
1	A	12	ARG
1	A	19	VAL
1	A	26	VAL
1	A	27	THR
1	A	35	PHE
1	A	44	ARG
1	A	56	VAL
1	A	61	ILE
1	A	64	VAL
1	A	66	HIS
1	A	67	GLU
1	A	70	THR
1	A	71	LYS
1	A	75	GLN
1	A	77	ASP
1	A	97	GLU
1	A	111	THR
1	A	116	THR
1	A	133	LEU
1	A	137	ASN
1	A	157	THR
1	A	171	LEU

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Mol	Chain	Res	Type
1	A	180	VAL
1	A	192	VAL
1	A	197	ASP
1	A	210	THR
1	A	211	ILE
1	A	224	LEU
1	A	227	GLN
1	A	234	LEU
1	B	8	PHE
1	B	9	LEU
1	B	10	LYS
1	B	13	LEU
1	B	14	VAL
1	B	15	ASP
1	B	16	ILE
1	B	17	GLU
1	B	21	SER
1	B	27	THR
1	B	33	ARG
1	B	35	PHE
1	B	44	ARG
1	B	48	LEU
1	B	60	GLU
1	B	61	ILE
1	B	64	VAL
1	B	66	HIS
1	B	67	GLU
1	B	72	GLU
1	B	76	GLU
1	B	77	ASP
1	B	79	LEU
1	B	81	ILE
1	B	82	LEU
1	B	85	LEU
1	B	88	LEU
1	B	90	VAL
1	B	91	ARG
1	B	92	VAL
1	B	98	VAL
1	B	100	LEU
1	B	101	THR
1	B	102	LEU

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Mol	Chain	Res	Type
1	B	105	SER
1	B	118	ASP
1	B	120	ASP
1	B	121	VAL
1	B	123	ILE
1	B	124	VAL
1	B	129	VAL
1	B	133	LEU
1	B	134	THR
1	B	137	ASN
1	B	143	ARG
1	B	147	GLN
1	B	156	SER
1	B	157	THR
1	B	180	VAL
1	B	182	ARG
1	B	186	ASN
1	B	187	VAL
1	B	191	ARG
1	B	195	ARG
1	B	196	THR
1	B	200	LYS
1	B	203	ILE
1	B	205	MET
1	B	206	GLU
1	B	214	GLU
1	B	218	ARG
1	B	223	ILE
1	B	224	LEU
1	B	226	GLU
1	B	249	PHE
1	B	252	ILE
1	B	253	LEU
1	B	255	ARG
1	B	262	LEU
1	B	263	THR
1	B	265	ARG
1	B	273	GLU
1	B	277	TYR
1	B	284	ARG
1	B	285	THR
1	B	286	GLU

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Mol	Chain	Res	Type
1	B	293	PRO
1	B	295	LEU
1	B	304	LYS
1	B	306	VAL
1	B	310	ARG
2	C	11	ILE
2	C	46	GLN
2	C	81	ASP
2	C	84	GLU
2	C	93	SER
2	C	103	VAL
2	C	113	THR
2	C	115	LYS
2	C	117	ILE
2	C	118	LYS
2	C	119	GLU
2	C	122	VAL
2	C	131	THR
2	C	138	ILE
2	C	145	ILE
2	C	146	VAL
2	C	150	HIS
2	C	152	SER
2	C	161	LYS
2	C	164	THR
2	C	165	HIS
2	C	167	SER
2	C	170	VAL
2	C	182	SER
2	C	185	ASP
2	C	201	ARG
2	C	208	ILE
2	C	213	LEU
2	C	239	MET
2	C	285	ILE
2	C	287	VAL
2	C	306	THR
2	C	309	LEU
2	C	316	GLU
2	C	319	LEU
2	C	325	LEU
2	C	337	PHE

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Mol	Chain	Res	Type
2	C	357	ASN
2	C	363	LEU
2	C	369	MET
2	C	377	THR
2	C	384	LEU
2	C	412	GLU
2	C	419	ILE
2	C	420	LEU
2	C	423	ASP
2	C	443	ASP
2	C	451	ARG
2	C	463	GLN
2	C	481	LEU
2	C	484	LEU
2	C	487	LEU
2	C	496	LYS
2	C	502	VAL
2	C	518	ASN
2	C	519	ASN
2	C	524	ILE
2	C	539	THR
2	C	540	ARG
2	C	542	ARG
2	C	550	VAL
2	C	553	THR
2	C	563	THR
2	C	600	THR
2	C	609	ILE
2	C	623	LEU
2	C	635	THR
2	C	638	SER
2	C	657	THR
2	C	662	SER
2	C	667	LEU
2	C	672	GLU
2	C	674	ASP
2	C	687	ARG
2	C	690	VAL
2	C	692	THR
2	C	697	LYS
2	C	700	VAL
2	C	714	VAL

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Mol	Chain	Res	Type
2	C	736	VAL
2	C	739	ASP
2	C	748	ILE
2	C	749	ASP
2	C	750	ILE
2	C	753	LEU
2	C	756	TYR
2	C	757	THR
2	C	763	THR
2	C	765	ILE
2	C	773	LEU
2	C	783	LEU
2	C	789	THR
2	C	790	ASP
2	C	799	ASN
2	C	800	MET
2	C	813	GLU
2	C	814	ASP
2	C	817	LEU
2	C	823	VAL
2	C	831	ILE
2	C	838	CYS
2	C	844	LYS
2	C	851	THR
2	C	857	VAL
2	C	863	SER
2	C	867	GLU
2	C	878	THR
2	C	881	ASP
2	C	882	ILE
2	C	890	LYS
2	C	892	GLU
2	C	902	LEU
2	C	911	SER
2	C	918	LEU
2	C	919	ARG
2	C	921	PRO
2	C	922	ASN
2	C	934	PHE
2	C	944	ARG
2	C	951	MET
2	C	963	GLU

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Mol	Chain	Res	Type
2	C	992	LEU
2	C	1004	ASP
2	C	1006	GLU
2	C	1018	TYR
2	C	1036	ILE
2	C	1037	THR
2	C	1040	ASP
2	C	1044	PRO
2	C	1046	VAL
2	C	1050	VAL
2	C	1054	LEU
2	C	1056	VAL
2	C	1059	ARG
2	C	1060	ILE
2	C	1082	ILE
2	C	1084	ASP
2	C	1087	TYR
2	C	1094	VAL
2	C	1137	GLU
2	C	1145	ILE
2	C	1146	GLN
2	C	1154	ASP
2	C	1156	ARG
2	C	1159	VAL
2	C	1162	SER
2	C	1163	THR
2	C	1164	PHE
2	C	1198	LEU
2	C	1207	SER
2	C	1211	ARG
2	C	1223	ARG
2	C	1226	THR
2	C	1233	LEU
2	C	1236	ASN
2	C	1237	HIS
2	C	1238	LEU
2	C	1239	VAL
2	C	1248	THR
2	C	1252	SER
2	C	1254	VAL
2	C	1255	THR
2	C	1264	GLN

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Mol	Chain	Res	Type
2	C	1279	GLU
2	C	1281	TYR
2	C	1295	SER
2	C	1299	ASN
2	C	1301	ARG
2	C	1325	VAL
2	C	1332	SER
2	C	1337	ILE
2	C	1342	GLU
3	D	9	LYS
3	D	11	GLN
3	D	13	LYS
3	D	26	SER
3	D	27	PRO
3	D	29	MET
3	D	43	THR
3	D	44	ILE
3	D	46	TYR
3	D	47	ARG
3	D	52	GLU
3	D	54	ASP
3	D	66	LYS
3	D	70	CYS
3	D	79	LYS
3	D	83	VAL
3	D	96	LYS
3	D	97	VAL
3	D	109	SER
3	D	111	THR
3	D	115	TRP
3	D	118	LYS
3	D	120	LEU
3	D	124	ILE
3	D	132	LEU
3	D	154	LEU
3	D	169	LEU
3	D	172	PHE
3	D	176	PHE
3	D	177	ASP
3	D	183	GLU
3	D	195	GLU
3	D	217	LEU

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Mol	Chain	Res	Type
3	D	218	THR
3	D	222	LYS
3	D	227	PHE
3	D	229	GLN
3	D	230	SER
3	D	241	VAL
3	D	242	LEU
3	D	244	VAL
3	D	245	LEU
3	D	247	PRO
3	D	248	ASP
3	D	252	LEU
3	D	255	LEU
3	D	256	ASP
3	D	262	THR
3	D	268	LEU
3	D	284	ASP
3	D	289	ASP
3	D	292	VAL
3	D	306	LEU
3	D	314	ARG
3	D	320	ASN
3	D	324	LEU
3	D	334	LYS
3	D	338	PHE
3	D	347	VAL
3	D	350	SER
3	D	356	THR
3	D	363	LEU
3	D	368	LEU
3	D	374	LEU
3	D	394	ILE
3	D	402	GLU
3	D	408	VAL
3	D	418	GLU
3	D	424	ASN
3	D	425	ARG
3	D	429	LEU
3	D	430	HIS
3	D	442	ILE
3	D	473	THR
3	D	474	LEU

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Mol	Chain	Res	Type
3	D	484	MET
3	D	487	THR
3	D	490	ILE
3	D	492	SER
3	D	502	PRO
3	D	505	ASP
3	D	510	LEU
3	D	511	TYR
3	D	514	THR
3	D	523	GLU
3	D	525	MET
3	D	526	VAL
3	D	528	THR
3	D	532	GLU
3	D	536	LEU
3	D	544	LEU
3	D	545	HIS
3	D	550	VAL
3	D	553	THR
3	D	558	ASP
3	D	560	ASN
3	D	563	LEU
3	D	572	THR
3	D	573	THR
3	D	582	ILE
3	D	583	VAL
3	D	594	GLN
3	D	598	LYS
3	D	599	LYS
3	D	602	SER
3	D	607	THR
3	D	615	LYS
3	D	639	VAL
3	D	646	ILE
3	D	660	GLU
3	D	661	VAL
3	D	674	THR
3	D	683	ILE
3	D	684	ASP
3	D	698	MET
3	D	701	LEU
3	D	705	THR

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Mol	Chain	Res	Type
3	D	707	ILE
3	D	708	ASN
3	D	710	ASP
3	D	712	GLN
3	D	717	VAL
3	D	720	ASN
3	D	740	LEU
3	D	744	ARG
3	D	746	LEU
3	D	755	ILE
3	D	757	THR
3	D	764	ARG
3	D	770	LEU
3	D	772	TYR
3	D	774	ILE
3	D	786	THR
3	D	795	TYR
3	D	801	VAL
3	D	803	VAL
3	D	806	ASP
3	D	808	VAL
3	D	810	THR
3	D	823	THR
3	D	825	VAL
3	D	830	ASP
3	D	831	VAL
3	D	833	GLU
3	D	838	ARG
3	D	847	ASP
3	D	849	LEU
3	D	853	THR
3	D	856	ILE
3	D	867	GLN
3	D	877	VAL
3	D	886	VAL
3	D	891	ASP
3	D	901	ARG
3	D	903	LEU
3	D	908	ILE
3	D	913	GLU
3	D	918	ILE
3	D	922	SER

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Mol	Chain	Res	Type
3	D	929	GLN
3	D	1155	ILE
3	D	1156	LEU
3	D	1160	SER
3	D	1162	ILE
3	D	1170	LYS
3	D	1173	ARG
3	D	1177	ILE
3	D	1183	SER
3	D	1186	TYR
3	D	1194	ARG
3	D	1199	PHE
3	D	1209	VAL
3	D	1221	LEU
3	D	1229	VAL
3	D	1231	ARG
3	D	1235	ASN
3	D	1242	ARG
3	D	1250	ASP
3	D	1261	LEU
3	D	1266	ILE
3	D	1272	SER
3	D	1273	ASP
3	D	1278	GLU
3	D	1280	VAL
3	D	1284	ARG
3	D	1289	ASN
3	D	1306	LEU
3	D	1309	ILE
3	D	1314	LEU
3	D	1319	PHE
3	D	1321	SER
3	D	1332	LEU
3	D	1349	GLU
3	D	1356	LEU
3	D	1366	HIS
4	E	3	ARG
4	E	18	ASP
4	E	21	LEU
4	E	31	GLN
4	E	39	VAL
4	E	46	THR

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Mol	Chain	Res	Type
4	E	84	THR
5	F	96	ASP
5	F	98	VAL
5	F	104	GLU
5	F	105	MET
5	F	108	VAL
5	F	253	SER
5	F	260	ARG
5	F	267	ASP
5	F	310	GLU
5	F	313	ASP
5	F	354	THR
5	F	359	LYS
5	F	360	ASP
5	F	374	ARG
5	F	379	MET
5	F	390	ILE
5	F	395	THR
5	F	399	LEU
5	F	401	PHE
5	F	405	ILE
5	F	406	GLN
5	F	439	ILE
5	F	448	ARG
5	F	449	THR
5	F	450	ILE
5	F	470	MET
5	F	471	LEU
5	F	497	VAL
5	F	506	SER
5	F	509	THR
5	F	516	ASP
5	F	517	SER
5	F	526	THR
5	F	527	THR
5	F	528	LEU
5	F	529	GLU
5	F	530	LEU
5	F	531	PRO
5	F	532	LEU
5	F	533	ASP
5	F	534	SER

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Mol	Chain	Res	Type
5	F	539	SER
5	F	545	HIS
5	F	546	ASP
5	F	552	THR
5	F	562	ARG
5	F	565	ILE
5	F	567	MET
5	F	569	THR
5	F	570	ASP
5	F	572	THR
5	F	573	LEU
5	F	580	PHE
5	F	582	VAL
5	F	583	THR
5	F	587	ILE
5	F	595	LEU
5	F	600	HIS
5	F	607	LEU
5	F	608	ARG
1	G	19	VAL
1	G	23	HIS
1	G	27	THR
1	G	29	GLU
1	G	64	VAL
1	G	66	HIS
1	G	71	LYS
1	G	79	LEU
1	G	90	VAL
1	G	124	VAL
1	G	131	CYS
1	G	133	LEU
1	G	137	ASN
1	G	139	SER
1	G	140	ILE
1	G	157	THR
1	G	171	LEU
1	G	180	VAL
1	G	197	ASP
1	G	207	THR
1	G	211	ILE
1	G	228	LEU
1	H	18	GLN

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Mol	Chain	Res	Type
1	H	22	THR
1	H	38	THR
1	H	43	LEU
1	H	45	ARG
1	H	48	LEU
1	H	49	SER
1	H	51	MET
1	H	54	CYS
1	H	65	LEU
1	H	68	TYR
1	H	72	GLU
1	H	79	LEU
1	H	90	VAL
1	H	95	LYS
1	H	102	LEU
1	H	103	ASN
1	H	118	ASP
1	H	131	CYS
1	H	133	LEU
1	H	135	ASP
1	H	139	SER
1	H	144	ILE
1	H	157	THR
1	H	178	SER
1	H	180	VAL
1	H	183	ILE
1	H	186	ASN
1	H	192	VAL
1	H	197	ASP
1	H	198	LEU
1	H	203	ILE
1	H	212	ASP
1	H	226	GLU
2	I	11	ILE
2	I	17	LYS
2	I	20	GLN
2	I	23	ASP
2	I	30	ILE
2	I	60	GLN
2	I	65	ASN
2	I	81	ASP
2	I	87	ILE

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Mol	Chain	Res	Type
2	I	90	VAL
2	I	93	SER
2	I	115	LYS
2	I	116	ASP
2	I	118	LYS
2	I	122	VAL
2	I	129	LEU
2	I	131	THR
2	I	132	ASP
2	I	135	THR
2	I	138	ILE
2	I	143	ARG
2	I	145	ILE
2	I	146	VAL
2	I	150	HIS
2	I	152	SER
2	I	156	PHE
2	I	161	LYS
2	I	165	HIS
2	I	167	SER
2	I	182	SER
2	I	185	ASP
2	I	189	ASP
2	I	197	ARG
2	I	201	ARG
2	I	208	ILE
2	I	223	LEU
2	I	229	ILE
2	I	239	MET
2	I	285	ILE
2	I	287	VAL
2	I	302	ILE
2	I	316	GLU
2	I	317	LEU
2	I	325	LEU
2	I	337	PHE
2	I	357	ASN
2	I	369	MET
2	I	377	THR
2	I	393	ASP
2	I	400	VAL
2	I	419	ILE

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Mol	Chain	Res	Type
2	I	442	VAL
2	I	443	ASP
2	I	445	ILE
2	I	452	ARG
2	I	453	ILE
2	I	456	VAL
2	I	463	GLN
2	I	471	VAL
2	I	481	LEU
2	I	484	LEU
2	I	487	LEU
2	I	492	MET
2	I	493	ILE
2	I	496	LYS
2	I	502	VAL
2	I	509	SER
2	I	513	GLN
2	I	518	ASN
2	I	519	ASN
2	I	521	LEU
2	I	524	ILE
2	I	538	LEU
2	I	550	VAL
2	I	553	THR
2	I	563	THR
2	I	587	LEU
2	I	600	THR
2	I	601	ASP
2	I	609	ILE
2	I	635	THR
2	I	638	SER
2	I	657	THR
2	I	663	VAL
2	I	672	GLU
2	I	681	MET
2	I	687	ARG
2	I	692	THR
2	I	697	LYS
2	I	705	GLU
2	I	714	VAL
2	I	739	ASP
2	I	742	TYR

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Mol	Chain	Res	Type
2	I	748	ILE
2	I	749	ASP
2	I	750	ILE
2	I	756	TYR
2	I	757	THR
2	I	763	THR
2	I	765	ILE
2	I	773	LEU
2	I	789	THR
2	I	790	ASP
2	I	791	LEU
2	I	799	ASN
2	I	814	ASP
2	I	817	LEU
2	I	823	VAL
2	I	851	THR
2	I	856	ASN
2	I	857	VAL
2	I	866	ASP
2	I	868	SER
2	I	878	THR
2	I	881	ASP
2	I	917	SER
2	I	918	LEU
2	I	922	ASN
2	I	944	ARG
2	I	992	LEU
2	I	1004	ASP
2	I	1006	GLU
2	I	1037	THR
2	I	1040	ASP
2	I	1042	LEU
2	I	1050	VAL
2	I	1054	LEU
2	I	1058	ARG
2	I	1059	ARG
2	I	1072	ASN
2	I	1076	ILE
2	I	1077	SER
2	I	1078	LYS
2	I	1084	ASP
2	I	1087	TYR

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Mol	Chain	Res	Type
2	I	1105	SER
2	I	1106	ARG
2	I	1109	ILE
2	I	1115	THR
2	I	1137	GLU
2	I	1145	ILE
2	I	1146	GLN
2	I	1154	ASP
2	I	1156	ARG
2	I	1159	VAL
2	I	1163	THR
2	I	1164	PHE
2	I	1203	ASP
2	I	1207	SER
2	I	1211	ARG
2	I	1214	ASP
2	I	1237	HIS
2	I	1238	LEU
2	I	1239	VAL
2	I	1240	ASP
2	I	1248	THR
2	I	1252	SER
2	I	1254	VAL
2	I	1278	LEU
2	I	1281	TYR
2	I	1295	SER
2	I	1313	HIS
2	I	1325	VAL
2	I	1342	GLU
3	J	18	ASP
3	J	26	SER
3	J	43	THR
3	J	44	ILE
3	J	46	TYR
3	J	47	ARG
3	J	52	GLU
3	J	54	ASP
3	J	70	CYS
3	J	75	TYR
3	J	83	VAL
3	J	95	THR
3	J	109	SER

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Mol	Chain	Res	Type
3	J	111	THR
3	J	118	LYS
3	J	120	LEU
3	J	139	LEU
3	J	154	LEU
3	J	169	LEU
3	J	172	PHE
3	J	176	PHE
3	J	177	ASP
3	J	183	GLU
3	J	217	LEU
3	J	222	LYS
3	J	224	LEU
3	J	229	GLN
3	J	230	SER
3	J	241	VAL
3	J	242	LEU
3	J	244	VAL
3	J	245	LEU
3	J	248	ASP
3	J	252	LEU
3	J	256	ASP
3	J	268	LEU
3	J	289	ASP
3	J	292	VAL
3	J	306	LEU
3	J	312	ARG
3	J	314	ARG
3	J	324	LEU
3	J	331	ILE
3	J	334	LYS
3	J	342	LEU
3	J	347	VAL
3	J	353	SER
3	J	356	THR
3	J	363	LEU
3	J	368	LEU
3	J	376	LEU
3	J	394	ILE
3	J	402	GLU
3	J	407	VAL
3	J	416	ILE

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Mol	Chain	Res	Type
3	J	424	ASN
3	J	429	LEU
3	J	430	HIS
3	J	442	ILE
3	J	447	ILE
3	J	453	VAL
3	J	460	ASP
3	J	474	LEU
3	J	484	MET
3	J	485	MET
3	J	486	SER
3	J	488	ASN
3	J	490	ILE
3	J	492	SER
3	J	505	ASP
3	J	510	LEU
3	J	511	TYR
3	J	514	THR
3	J	525	MET
3	J	528	THR
3	J	536	LEU
3	J	544	LEU
3	J	545	HIS
3	J	550	VAL
3	J	563	LEU
3	J	567	THR
3	J	569	LEU
3	J	572	THR
3	J	573	THR
3	J	592	VAL
3	J	594	GLN
3	J	599	LYS
3	J	602	SER
3	J	605	LEU
3	J	607	THR
3	J	610	ARG
3	J	615	LYS
3	J	617	THR
3	J	620	PHE
3	J	634	ARG
3	J	641	ILE
3	J	646	ILE

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Mol	Chain	Res	Type
3	J	651	HIS
3	J	660	GLU
3	J	674	THR
3	J	678	ARG
3	J	682	VAL
3	J	683	ILE
3	J	697	MET
3	J	698	MET
3	J	701	LEU
3	J	705	THR
3	J	707	ILE
3	J	708	ASN
3	J	712	GLN
3	J	720	ASN
3	J	740	LEU
3	J	744	ARG
3	J	746	LEU
3	J	754	ILE
3	J	757	THR
3	J	770	LEU
3	J	772	TYR
3	J	774	ILE
3	J	786	THR
3	J	788	LEU
3	J	792	ASN
3	J	797	THR
3	J	801	VAL
3	J	808	VAL
3	J	810	THR
3	J	823	THR
3	J	825	VAL
3	J	830	ASP
3	J	847	ASP
3	J	849	LEU
3	J	853	THR
3	J	856	ILE
3	J	857	LEU
3	J	864	LEU
3	J	867	GLN
3	J	868	TRP
3	J	885	VAL
3	J	886	VAL

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Mol	Chain	Res	Type
3	J	903	LEU
3	J	908	ILE
3	J	913	GLU
3	J	918	ILE
3	J	922	SER
3	J	1146	GLU
3	J	1155	ILE
3	J	1156	LEU
3	J	1162	ILE
3	J	1170	LYS
3	J	1173	ARG
3	J	1177	ILE
3	J	1183	SER
3	J	1186	TYR
3	J	1194	ARG
3	J	1200	GLU
3	J	1209	VAL
3	J	1217	PRO
3	J	1221	LEU
3	J	1229	VAL
3	J	1231	ARG
3	J	1241	TYR
3	J	1242	ARG
3	J	1255	VAL
3	J	1266	ILE
3	J	1272	SER
3	J	1273	ASP
3	J	1274	PHE
3	J	1283	SER
3	J	1287	ILE
3	J	1289	ASN
3	J	1290	ARG
3	J	1293	GLU
3	J	1306	LEU
3	J	1307	LEU
3	J	1309	ILE
3	J	1317	GLU
3	J	1319	PHE
3	J	1321	SER
3	J	1324	SER
3	J	1325	PHE
3	J	1328	THR

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Mol	Chain	Res	Type
3	J	1332	LEU
3	J	1333	THR
3	J	1357	ILE
3	J	1366	HIS
4	K	3	ARG
4	K	13	ILE
4	K	21	LEU
4	K	36	ASP
4	K	39	VAL
4	K	46	THR
4	K	58	LEU
5	L	98	VAL
5	L	104	GLU
5	L	136	GLU
5	L	253	SER
5	L	260	ARG
5	L	266	PHE
5	L	267	ASP
5	L	313	ASP
5	L	360	ASP
5	L	367	ILE
5	L	390	ILE
5	L	399	LEU
5	L	401	PHE
5	L	405	ILE
5	L	406	GLN
5	L	410	ILE
5	L	429	THR
5	L	439	ILE
5	L	445	ASP
5	L	448	ARG
5	L	449	THR
5	L	450	ILE
5	L	452	ILE
5	L	464	ASN
5	L	465	ARG
5	L	470	MET
5	L	479	THR
5	L	497	VAL
5	L	502	LYS
5	L	513	ASP
5	L	517	SER

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Mol	Chain	Res	Type
5	L	518	HIS
5	L	528	LEU
5	L	529	GLU
5	L	530	LEU
5	L	533	ASP
5	L	536	THR
5	L	552	THR
5	L	565	ILE
5	L	573	LEU
5	L	574	GLU
5	L	583	THR
5	L	587	ILE
5	L	595	LEU
5	L	601	PRO
5	L	607	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (114) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	ASN
1	A	103	ASN
1	A	132	HIS
1	A	227	GLN
1	B	132	HIS
1	B	147	GLN
1	B	268	ASN
2	C	46	GLN
2	C	69	GLN
2	C	139	ASN
2	C	276	GLN
2	C	357	ASN
2	C	463	GLN
2	C	494	ASN
2	C	513	GLN
2	C	517	GLN
2	C	554	HIS
2	C	568	ASN
2	C	684	ASN
2	C	832	HIS
2	C	834	GLN
2	C	922	ASN
2	C	1108	ASN

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Mol	Chain	Res	Type
2	C	1111	GLN
2	C	1134	GLN
2	C	1146	GLN
2	C	1209	GLN
2	C	1256	GLN
2	C	1268	GLN
2	C	1314	GLN
3	D	94	GLN
3	D	157	GLN
3	D	200	GLN
3	D	294	ASN
3	D	365	GLN
3	D	430	HIS
3	D	435	GLN
3	D	450	HIS
3	D	465	GLN
3	D	477	GLN
3	D	594	GLN
3	D	702	GLN
3	D	716	GLN
3	D	805	GLN
3	D	861	ASN
3	D	867	GLN
3	D	929	GLN
3	D	1227	HIS
3	D	1259	GLN
5	F	147	GLN
5	F	283	GLN
5	F	317	ASN
5	F	331	HIS
5	F	345	GLN
5	F	400	GLN
5	F	464	ASN
1	G	41	ASN
1	G	84	ASN
1	G	128	HIS
1	H	103	ASN
1	H	128	HIS
2	I	139	ASN
2	I	330	HIS
2	I	357	ASN
2	I	462	ASN

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Mol	Chain	Res	Type
2	I	490	GLN
2	I	526	HIS
2	I	554	HIS
2	I	604	HIS
2	I	688	GLN
2	I	832	HIS
2	I	834	GLN
2	I	1070	HIS
2	I	1108	ASN
2	I	1111	GLN
2	I	1116	HIS
2	I	1146	GLN
2	I	1209	GLN
2	I	1220	GLN
2	I	1268	GLN
2	I	1314	GLN
2	I	1324	ASN
3	J	157	GLN
3	J	200	GLN
3	J	206	ASN
3	J	294	ASN
3	J	335	GLN
3	J	365	GLN
3	J	424	ASN
3	J	430	HIS
3	J	450	HIS
3	J	465	GLN
3	J	489	ASN
3	J	669	GLN
3	J	702	GLN
3	J	716	GLN
3	J	805	GLN
3	J	861	ASN
3	J	865	HIS
3	J	910	ASN
3	J	1218	HIS
3	J	1235	ASN
3	J	1268	ASN
3	J	1279	GLN
3	J	1295	ASN
3	J	1366	HIS
5	L	128	ASN

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Mol	Chain	Res	Type
5	L	147	GLN
5	L	242	HIS
5	L	357	GLN
5	L	400	GLN
5	L	406	GLN
5	L	446	GLN
5	L	469	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 7 ligands modelled in this entry, 6 are monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	4C4	D	2004	-	27,31,31	1.35	2 (7%)	30,40,40	1.18	4 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	4C4	D	2004	-	-	10/29/31/31	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	2004	4C4	C1-C2	-5.63	1.39	1.50
8	D	2004	4C4	O5-C15	2.12	1.38	1.35

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	D	2004	4C4	O5-C15-C14	2.67	122.29	119.70
8	D	2004	4C4	C13-C14-C15	-2.59	118.94	122.17
8	D	2004	4C4	O1-C2-C1	2.32	125.33	119.91
8	D	2004	4C4	C4-C3-C2	2.01	119.22	115.53

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	D	2004	4C4	C14-C15-C16-C17
8	D	2004	4C4	C17-C16-C18-C19
8	D	2004	4C4	O4-C22-O3-C23
8	D	2004	4C4	N-C22-O3-C23
8	D	2004	4C4	C15-C16-C18-C19
8	D	2004	4C4	C16-C18-C19-C20
8	D	2004	4C4	C11-C10-C9-C7
8	D	2004	4C4	C18-C19-C20-C21
8	D	2004	4C4	C20-C21-N-C22
8	D	2004	4C4	C-C1-C2-O1

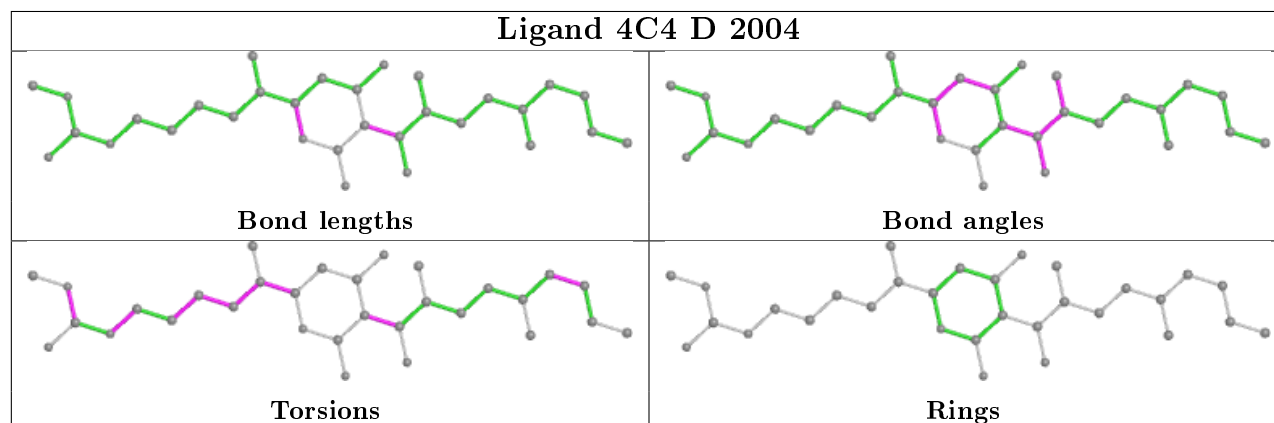
There are no ring outliers.

1 monomer is involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	D	2004	4C4	17	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/329 (69%)	-0.33	1 (0%) 92 88	85, 130, 177, 246	0
1	B	289/329 (87%)	-0.20	8 (2%) 53 43	100, 194, 249, 268	0
1	G	227/329 (68%)	-0.19	4 (1%) 68 61	184, 217, 237, 248	0
1	H	216/329 (65%)	0.43	22 (10%) 6 6	179, 244, 274, 286	0
2	C	1340/1342 (99%)	-0.31	4 (0%) 94 91	75, 125, 228, 303	0
2	I	1340/1342 (99%)	-0.20	30 (2%) 62 53	124, 163, 252, 431	0
3	D	1166/1407 (82%)	-0.30	7 (0%) 89 85	84, 126, 211, 261	0
3	J	1155/1407 (82%)	-0.22	20 (1%) 70 62	122, 169, 233, 316	0
4	E	89/91 (97%)	-0.28	0 100 100	118, 140, 168, 177	0
4	K	79/91 (86%)	0.51	7 (8%) 9 7	223, 285, 342, 352	0
5	F	458/613 (74%)	-0.09	24 (5%) 27 23	115, 176, 321, 349	0
5	L	458/613 (74%)	-0.03	21 (4%) 32 27	153, 197, 350, 376	0
All	All	7046/8222 (85%)	-0.20	148 (2%) 63 55	75, 159, 278, 431	0

All (148) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	L	319	ALA	7.3
5	L	315	TRP	6.8
5	F	305	LEU	6.3
1	H	24	ALA	6.2
5	F	304	THR	6.1
5	L	321	ALA	5.7
5	L	314	THR	5.3
5	L	318	ALA	5.3
2	I	982	GLY	5.2
5	L	322	MET	4.9
5	F	301	ASN	4.6

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Mol	Chain	Res	Type	RSRZ
3	J	1186	TYR	4.5
2	I	980	VAL	4.4
2	I	979	LEU	4.3
1	H	13	LEU	4.3
5	F	259	PHE	4.3
1	H	12	ARG	4.2
3	D	1201	GLY	4.2
3	J	1196	LEU	4.2
1	H	28	LEU	4.1
3	J	1175	LEU	4.1
5	F	300	LYS	4.1
1	H	27	THR	4.1
5	F	219	GLU	4.0
2	I	970	GLY	4.0
5	F	325	PRO	4.0
5	L	305	LEU	3.9
3	J	1296	GLY	3.9
4	K	56	GLU	3.8
3	J	1299	GLY	3.8
5	L	316	PHE	3.8
5	L	320	ILE	3.8
1	H	51	MET	3.7
2	C	248	GLY	3.7
5	F	288	MET	3.6
5	L	294	GLN	3.6
3	J	1198	VAL	3.6
2	I	1011	LEU	3.6
1	H	98	VAL	3.6
2	I	983	GLY	3.5
2	I	998	LEU	3.5
5	L	146	GLU	3.5
1	H	121	VAL	3.4
5	L	293	GLU	3.4
2	I	1006	GLU	3.3
2	I	1005	GLU	3.3
2	I	995	ASP	3.3
4	K	58	LEU	3.3
5	F	315	TRP	3.2
3	J	1375	ALA	3.2
5	L	135	ALA	3.1
5	L	291	CYS	3.1
1	H	148	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
3	J	1187	GLU	3.1
2	I	977	ALA	3.1
3	J	1202	GLU	3.1
3	J	1188	GLU	3.0
1	B	317	ARG	3.0
2	I	981	ALA	3.0
5	L	312	SER	3.0
2	I	1007	LYS	3.0
2	I	101	ARG	3.0
1	G	202	VAL	3.0
2	C	317	LEU	3.0
1	B	260	LEU	3.0
3	D	1198	VAL	2.9
1	B	98	VAL	2.9
1	H	72	GLU	2.9
2	I	988	LYS	2.9
2	I	969	ALA	2.9
3	D	1202	GLU	2.9
1	G	90	VAL	2.9
1	H	50	SER	2.9
5	F	111	LEU	2.8
5	F	314	THR	2.8
4	K	57	GLY	2.8
2	I	734	ILE	2.7
4	K	75	GLN	2.7
1	G	95	LYS	2.7
5	F	220	LYS	2.7
2	I	733	VAL	2.7
5	F	255	VAL	2.6
5	F	287	ILE	2.6
5	F	299	LYS	2.6
2	I	1000	LEU	2.6
5	F	319	ALA	2.6
3	J	1197	ASN	2.6
1	H	52	PRO	2.6
1	H	186	ASN	2.5
3	J	882	VAL	2.5
3	D	1200	GLU	2.5
3	J	1306	LEU	2.5
5	F	258	GLN	2.5
2	I	1018	TYR	2.4
1	H	146	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	H	180	VAL	2.4
3	D	1173	ARG	2.4
2	I	978	VAL	2.4
2	I	100	LEU	2.4
3	J	208	THR	2.4
1	H	207	THR	2.4
3	J	1165	PHE	2.4
1	A	205	MET	2.4
1	H	201	LEU	2.3
2	I	1004	ASP	2.3
1	H	179	PRO	2.3
2	I	230	PHE	2.3
1	B	316	MET	2.3
3	D	1161	GLY	2.3
2	I	976	ARG	2.3
1	B	262	LEU	2.3
5	L	337	VAL	2.3
5	F	302	PHE	2.2
2	I	1015	ALA	2.2
1	B	257	VAL	2.2
5	F	303	ILE	2.2
1	H	172	LEU	2.2
3	J	337	ARG	2.2
2	C	1022	LYS	2.2
5	F	256	PHE	2.2
3	D	1204	VAL	2.2
5	L	154	GLU	2.2
5	F	222	ALA	2.2
3	J	1168	GLU	2.2
2	C	266	GLY	2.2
4	K	54	ILE	2.1
5	L	317	ASN	2.1
2	I	975	ILE	2.1
4	K	78	ALA	2.1
1	G	198	LEU	2.1
5	F	296	LYS	2.1
3	J	1199	PHE	2.1
1	H	144	ILE	2.1
2	I	725	GLN	2.1
1	B	57	THR	2.1
1	B	58	GLU	2.1
5	F	152	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	J	1201	GLY	2.1
1	H	100	LEU	2.0
2	I	231	GLU	2.0
5	L	284	GLU	2.0
1	H	29	GLU	2.0
2	I	987	GLU	2.0
5	L	288	MET	2.0
3	J	1177	ILE	2.0
5	F	298	PRO	2.0
4	K	55	GLU	2.0
5	L	242	HIS	2.0

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

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

6.3 Carbohydrates [i](#)

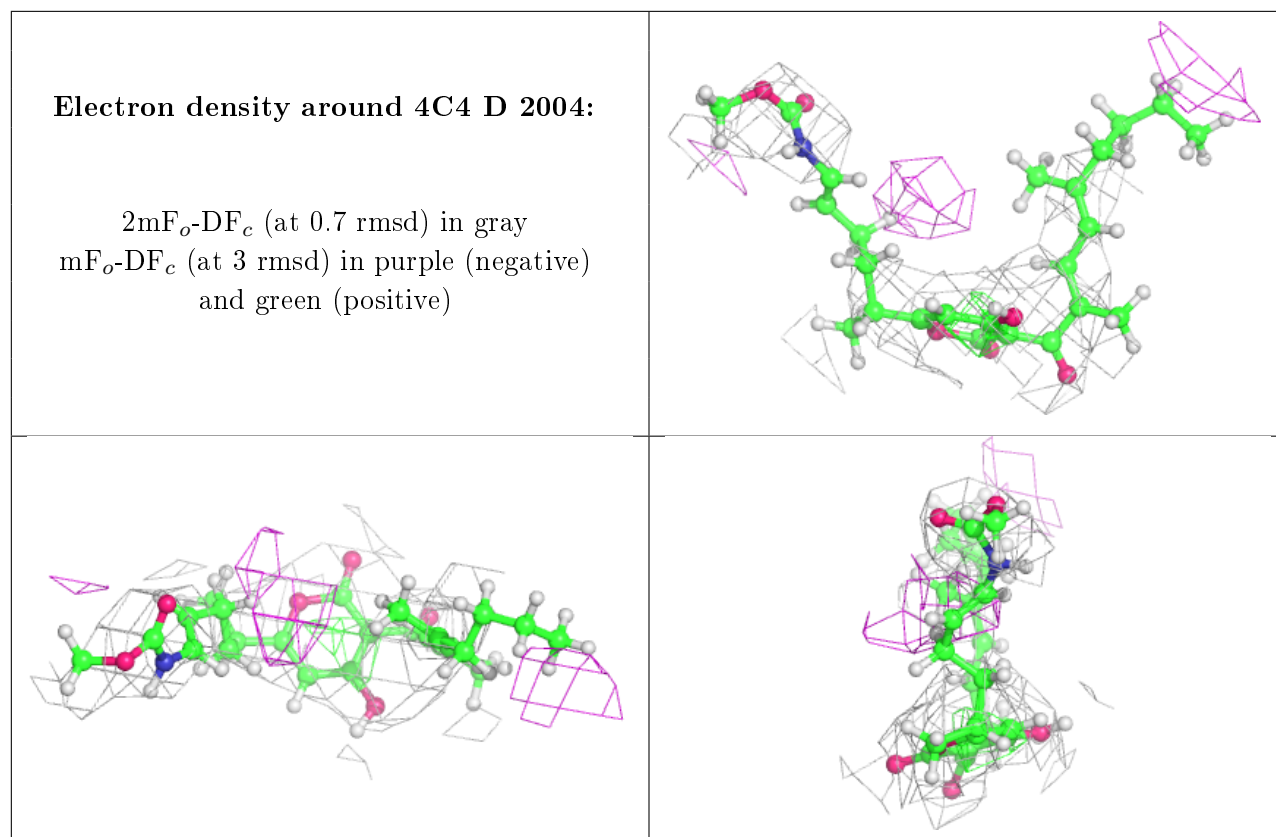
There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
8	4C4	D	2004	31/31	0.89	0.43	128,154,155,155	0
7	ZN	J	2003	1/1	0.92	0.14	130,130,130,130	0
6	MG	J	2001	1/1	0.95	0.26	127,127,127,127	0
6	MG	D	2001	1/1	0.98	0.42	126,126,126,126	0
7	ZN	D	2003	1/1	0.99	0.23	125,125,125,125	0
7	ZN	D	2002	1/1	0.99	0.08	126,126,126,126	0
7	ZN	J	2002	1/1	0.99	0.04	143,143,143,143	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers [i](#)

There are no such residues in this entry.