Full wwPDB X-ray Structure Validation Report ⓘ

Aug 23, 2023 – 06:49 AM EDT

PDB ID	:	3DXJ
Title	:	Crystal structure of thermus thermophilus rna polymerase holoenzyme in complex with the antibiotic myxopyronin
Authors	:	Das, K.; Arnold, E.
Deposited on	:	2008-07-24
Resolution	:	3.00 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 types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

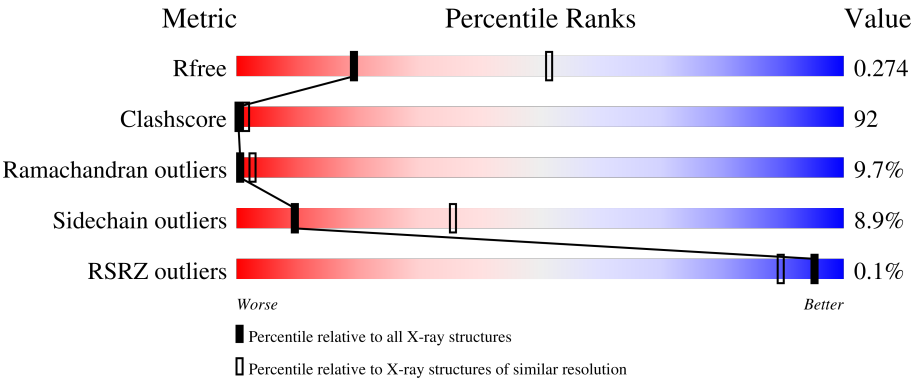
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 3.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 of 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 <=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	315	15% 51% 6% 27%
1	B	315	16% 52% 9% · 23%
1	K	315	17% 50% 6% 27%
1	L	315	15% 55% 7% 23%
2	C	1119	18% 70% 12% ·

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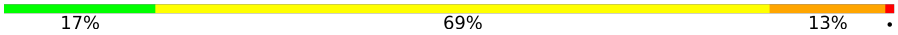
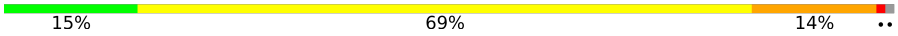
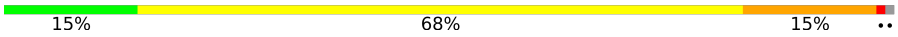
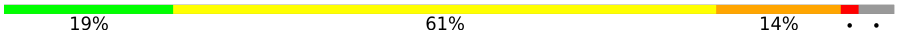
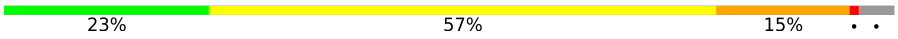
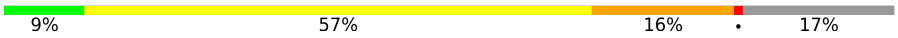
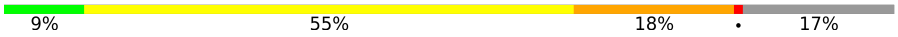
Mol	Chain	Length	Quality of chain
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
10	NE6	D	1529	X	-	-	-
10	NE6	N	1528	X	-	-	-

2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 56149 atoms, of which 0 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; CHAIN A, B, K, L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	231	Total	C	N	O	S	0	0	0
			1816	1159	315	339	3			
1	B	243	Total	C	N	O	S	0	0	0
			1902	1212	328	359	3			
1	K	231	Total	C	N	O	S	0	0	0
			1816	1159	315	339	3			
1	L	243	Total	C	N	O	S	0	0	0
			1902	1212	328	359	3			

- Molecule 2 is a protein called BACTERIAL RNA POLYMERASE BETA SUBUNIT; CHAIN C, M.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

- Molecule 3 is a protein called BACTERIAL RNA POLYMERASE BETA-PRIME SUBUNIT; CHAIN D, N.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1504	Total	C	N	O	S	0	0	0
			11864	7518	2091	2219	36			
3	N	1504	Total	C	N	O	S	0	0	0
			11864	7518	2091	2219	36			

- Molecule 4 is a protein called BACTERIAL RNA POLYMERASE OMEGA SUBUNIT; CHAIN E, O.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

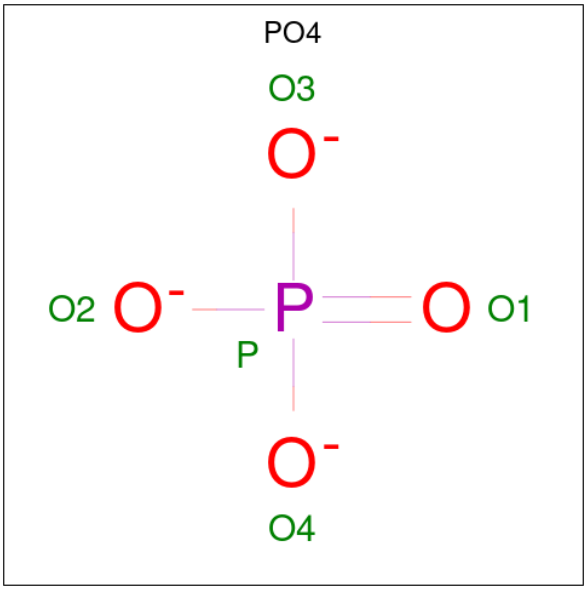
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	61	GLU	VAL	variant	UNP Q8RQE7
E	92	ILE	LEU	variant	UNP Q8RQE7
E	95	GLY	VAL	variant	UNP Q8RQE7
O	61	GLU	VAL	variant	UNP Q8RQE7
O	92	ILE	LEU	variant	UNP Q8RQE7
O	95	GLY	VAL	variant	UNP Q8RQE7

- Molecule 5 is a protein called RNA polymerase pricipal sigma factor (RpoD); CHAIN F, P.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	349	Total	C	N	O	S	0	0	0
			2829	1785	513	527	4			
5	P	349	Total	C	N	O	S	0	0	0
			2829	1785	513	527	4			

- Molecule 6 is PHOSPHATE ION (three-letter code: PO4) (formula: O_4P).

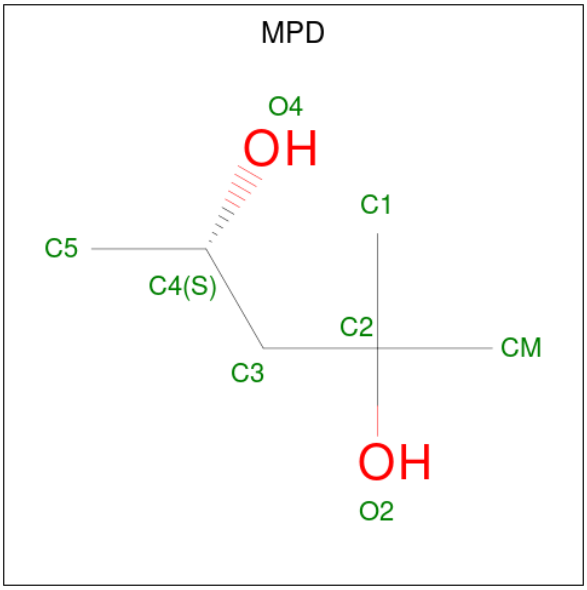


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total O P 5 4 1	0	0
6	D	1	Total O P 5 4 1	0	0

- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	B	1	Total Mg 1 1	0	0
7	D	1	Total Mg 1 1	0	0
7	N	1	Total Mg 1 1	0	0

- Molecule 8 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).

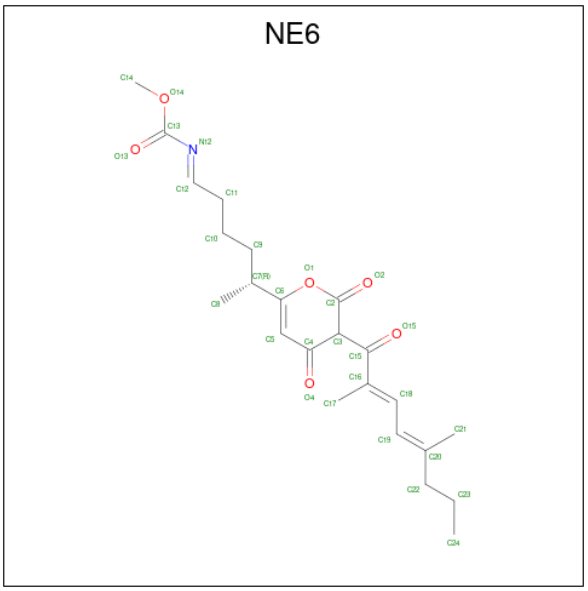


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	C	1	Total C O 8 6 2	0	0
8	C	1	Total C O 8 6 2	0	0
8	M	1	Total C O 8 6 2	0	0

- Molecule 9 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	D	2	Total Zn 2 2	0	0
9	N	2	Total Zn 2 2	0	0

- Molecule 10 is methyl [(1E,5R)-5-{(3S)-3-[(2E,4E)-2,5-dimethylocta-2,4-dienoyl]-2,4-dioxo-3,4-dihydro-2H-pyran-6-yl}hexylidene]carbamate (three-letter code: NE6) (formula: $C_{23}H_{31}NO_6$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	D	1	Total C N O 30 23 1 6	0	0
10	N	1	Total C N O 30 23 1 6	0	0

- Molecule 11 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	A	1	Total O 1 1	0	0
11	B	1	Total O 1 1	0	0
11	C	7	Total O 7 7	0	0
11	D	10	Total O 10 10	0	0
11	F	1	Total O 1 1	0	0

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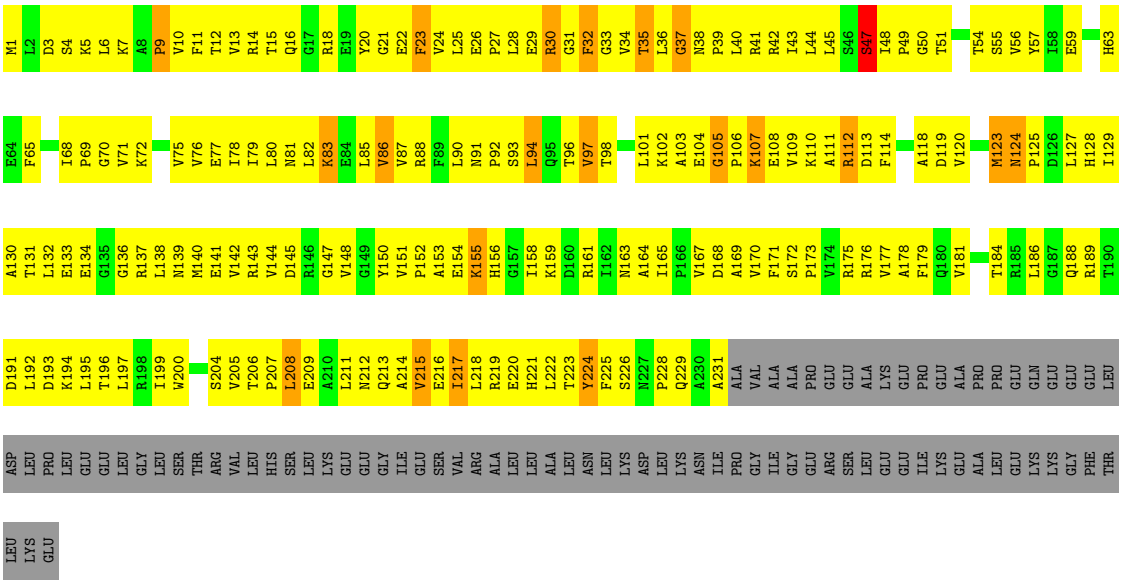
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
11	M	5	Total O 5 5	0	0
11	N	4	Total O 4 4	0	0
11	O	1	Total O 1 1	0	0

3 Residue-property plots (i)

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

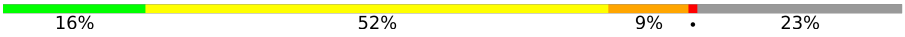
• Molecule 1: DNA-directed RNA polymerase subunit alpha; CHAIN A, B, K, L

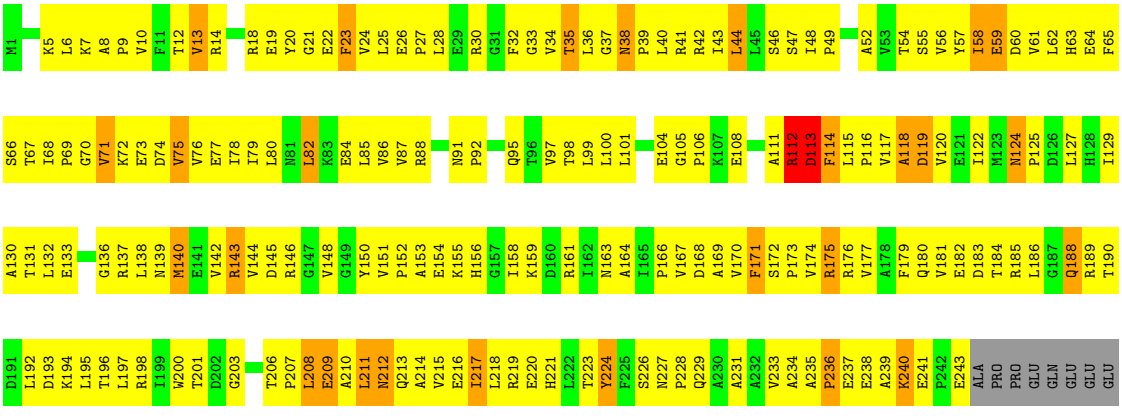
Chain A:

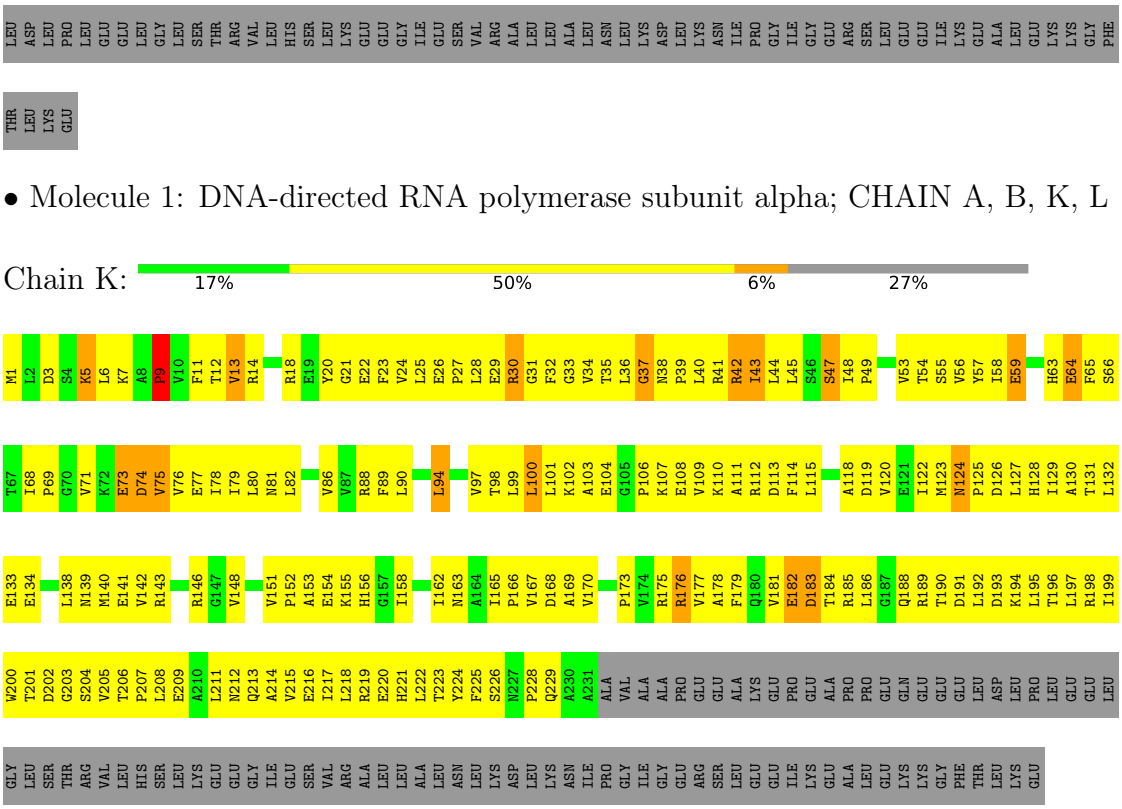


• Molecule 1: DNA-directed RNA polymerase subunit alpha; CHAIN A, B, K, L

Chain B:





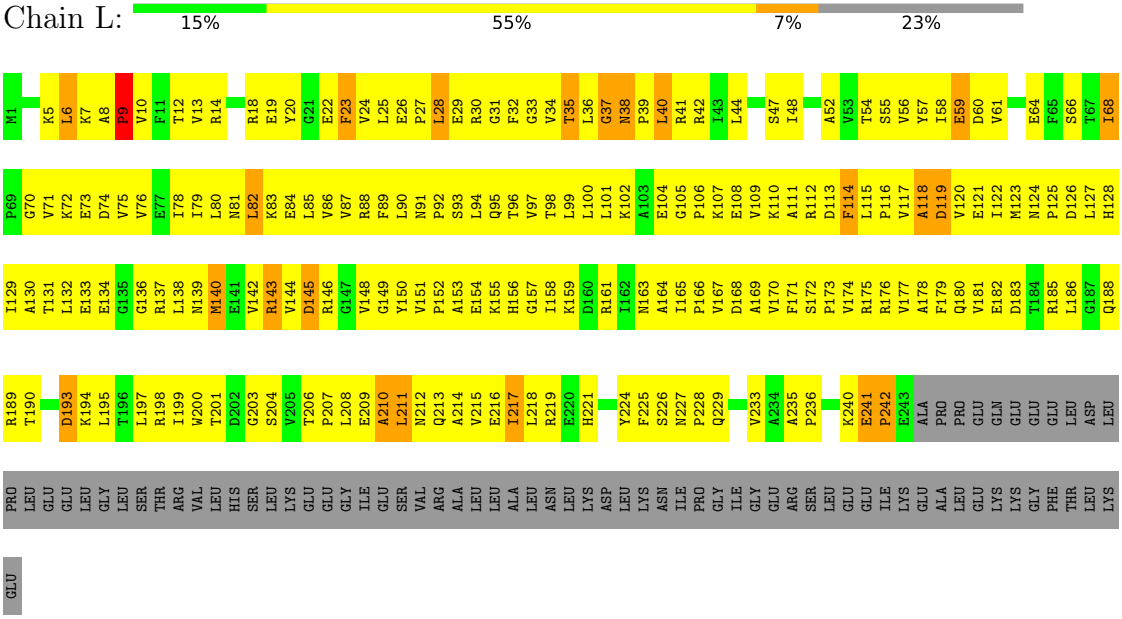


• Molecule 1: DNA-directed RNA polymerase subunit alpha; CHAIN A, B, K, L

Chain K:

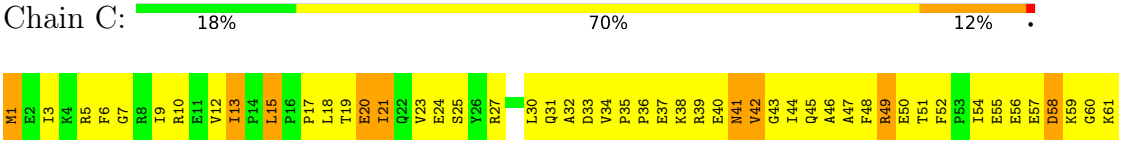
• Molecule 1: DNA-directed RNA polymerase subunit alpha; CHAIN A, B, K, L

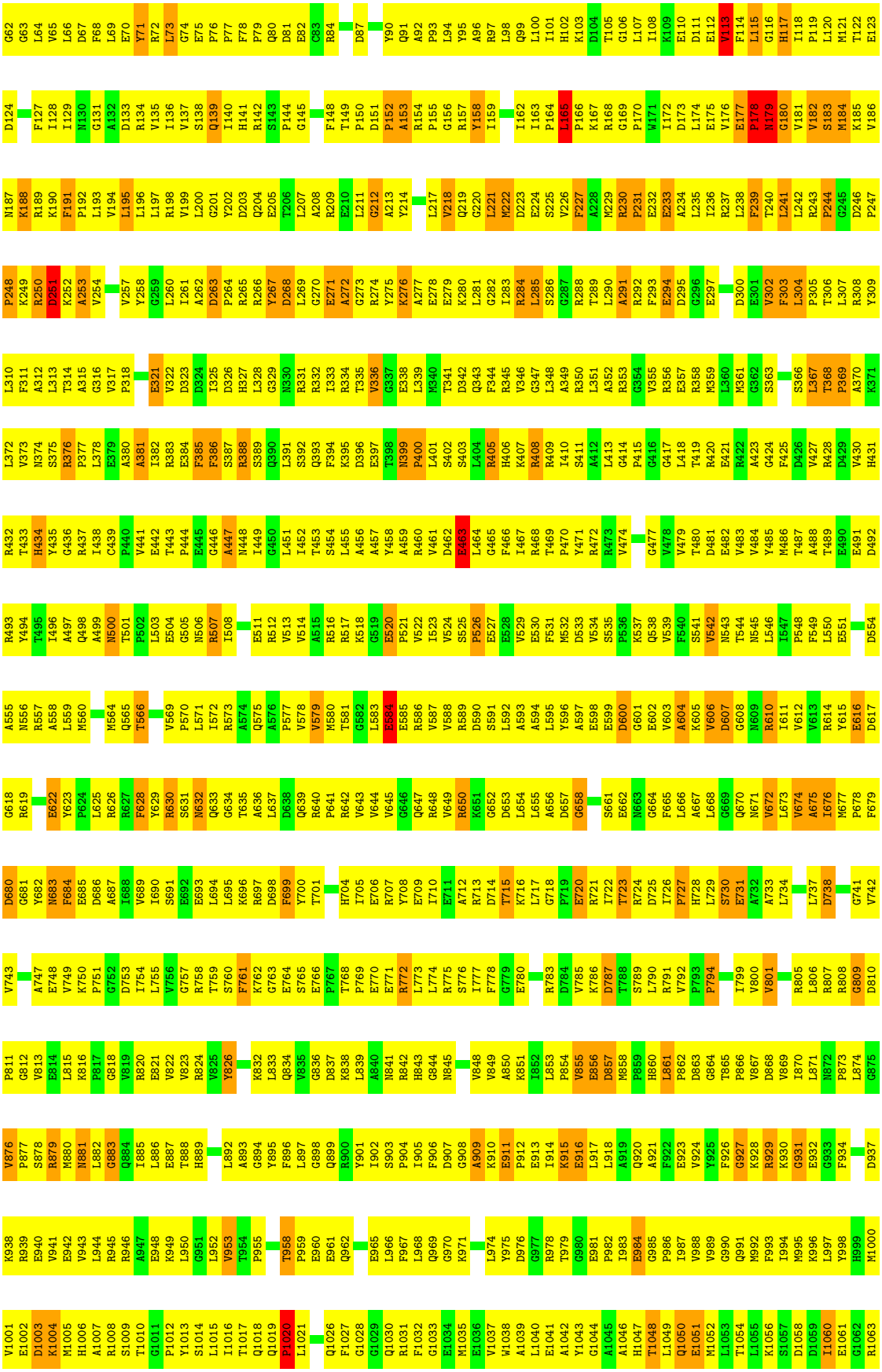
Chain L:

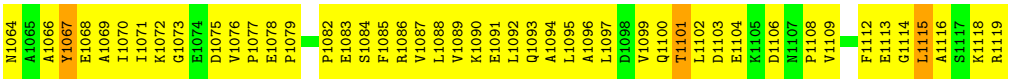


• Molecule 2: BACTERIAL RNA POLYMERASE BETA SUBUNIT; CHAIN C, M

Chain C:

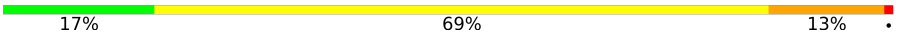


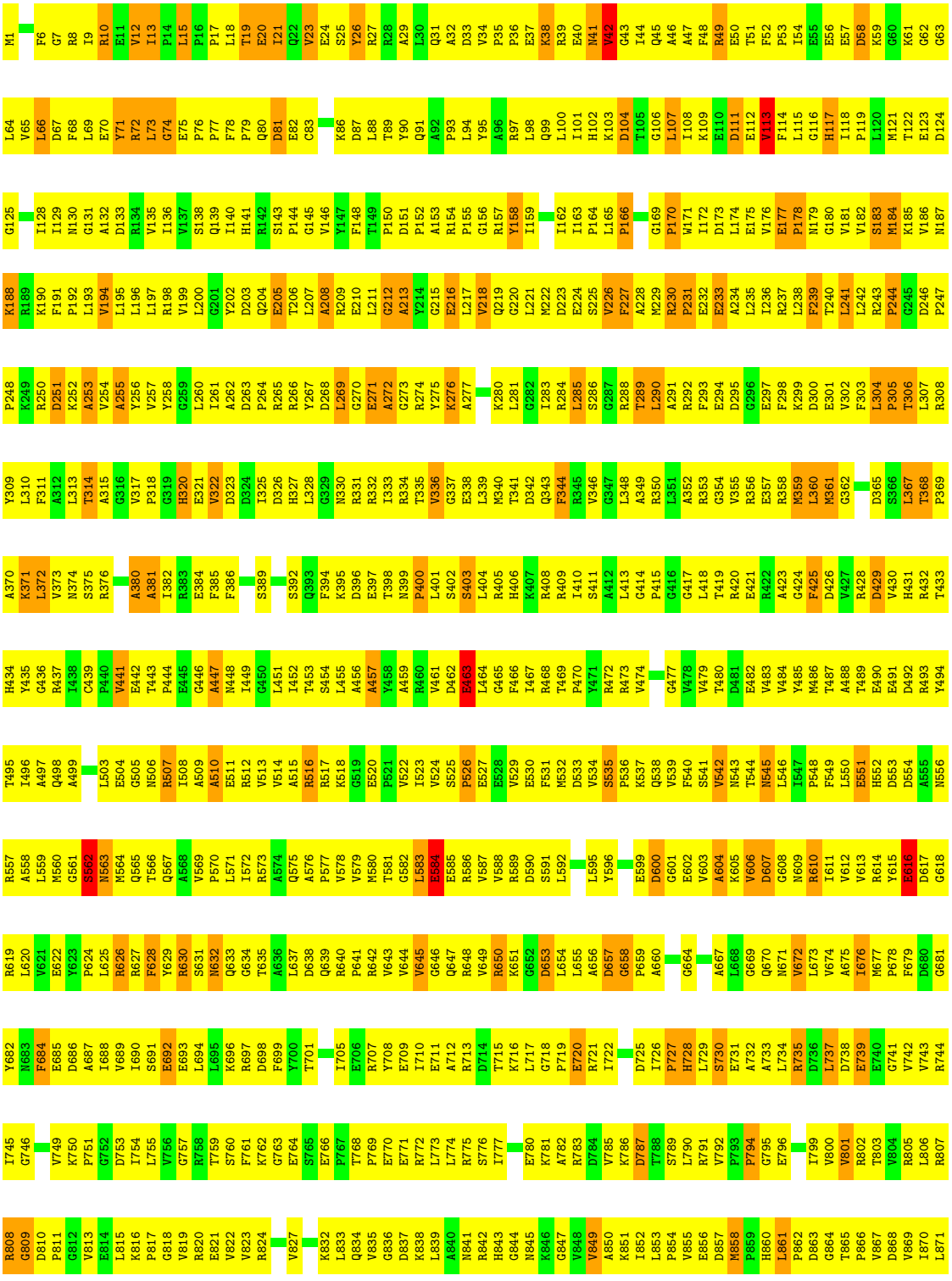


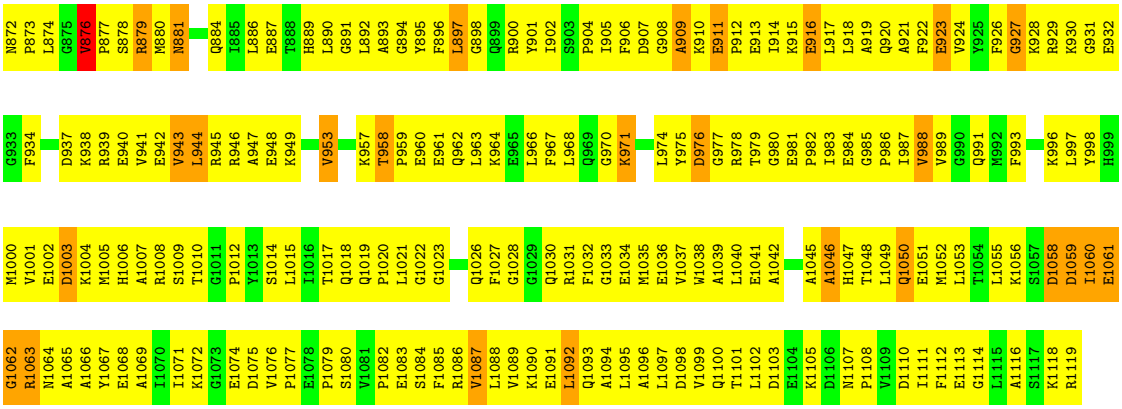


• Molecule 2: BACTERIAL RNA POLYMERASE BETA SUBUNIT; CHAIN C, M

Chain M:

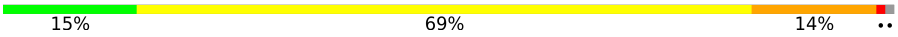


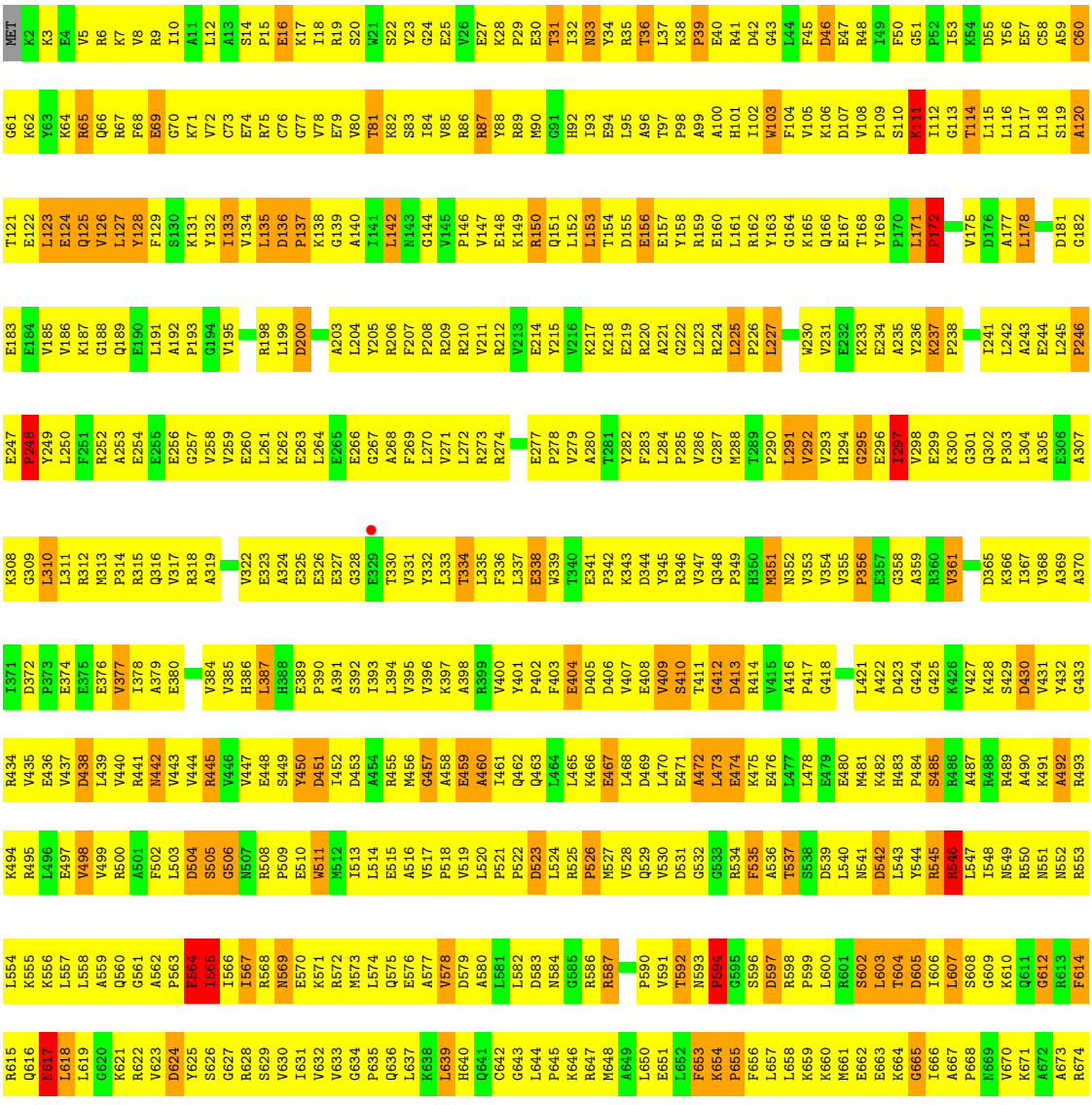


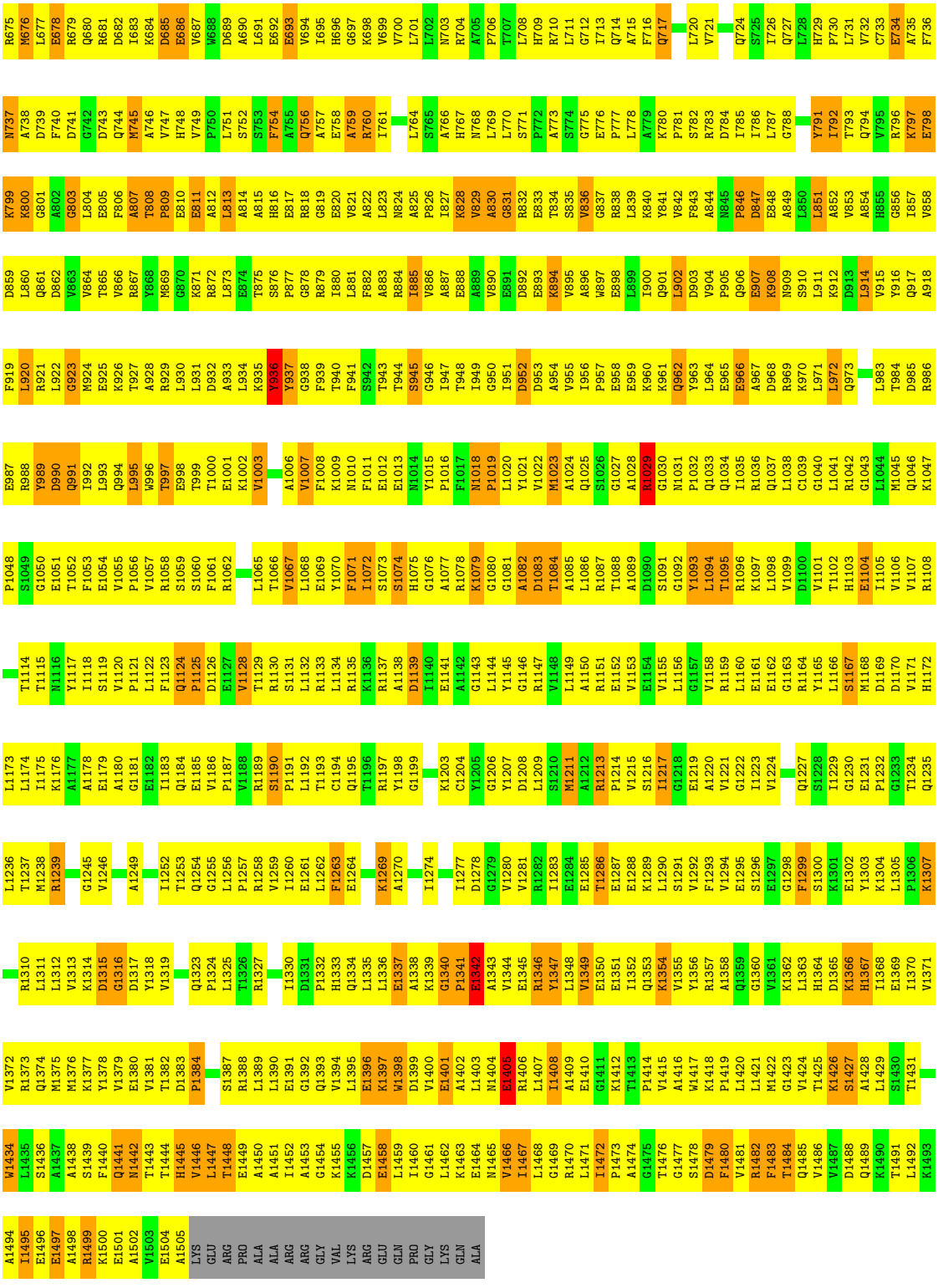


• Molecule 3: BACTERIAL RNA POLYMERASE BETA-PRIME SUBUNIT; CHAIN D, N

Chain D:

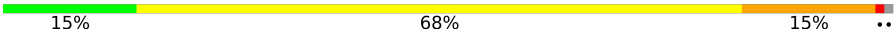


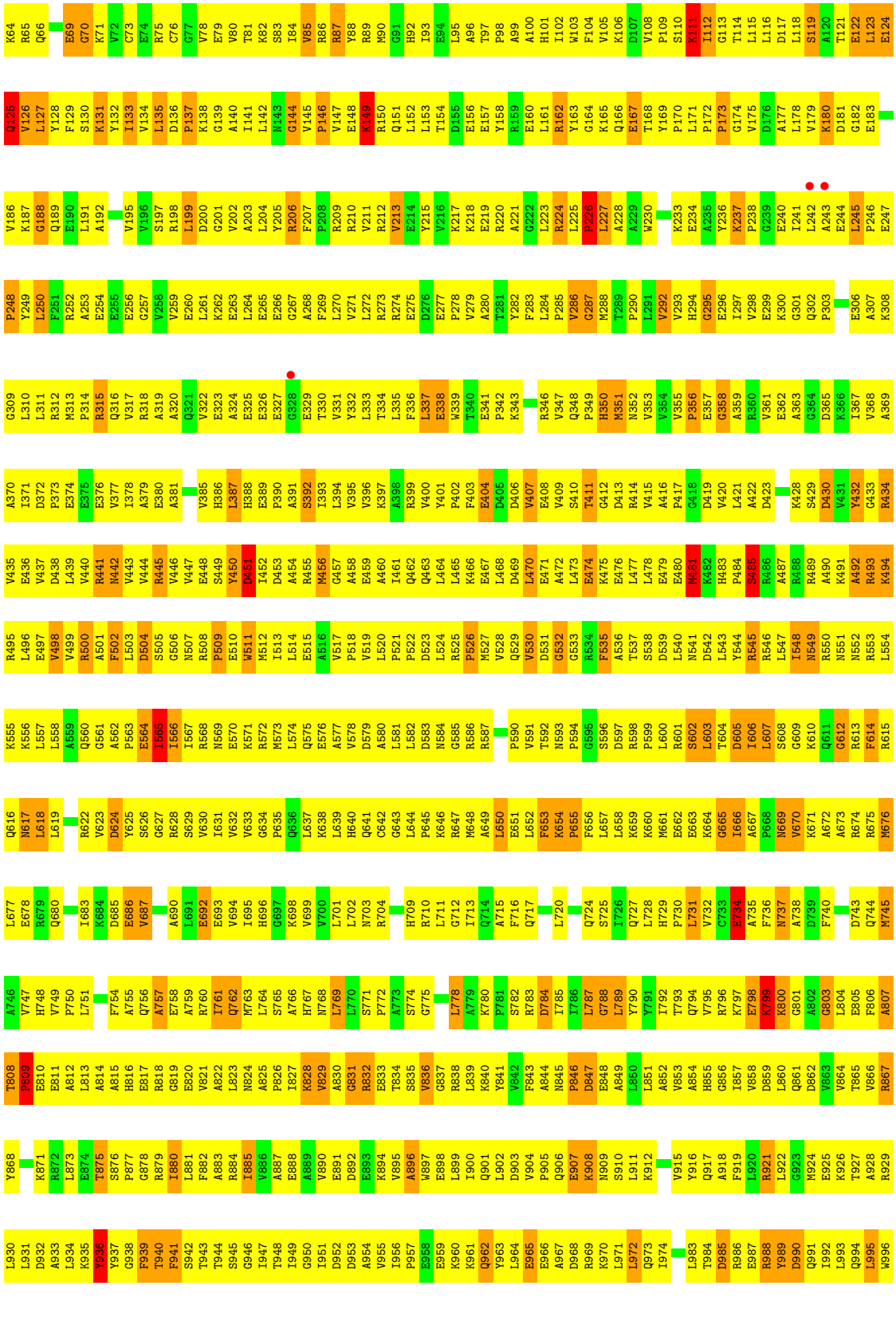


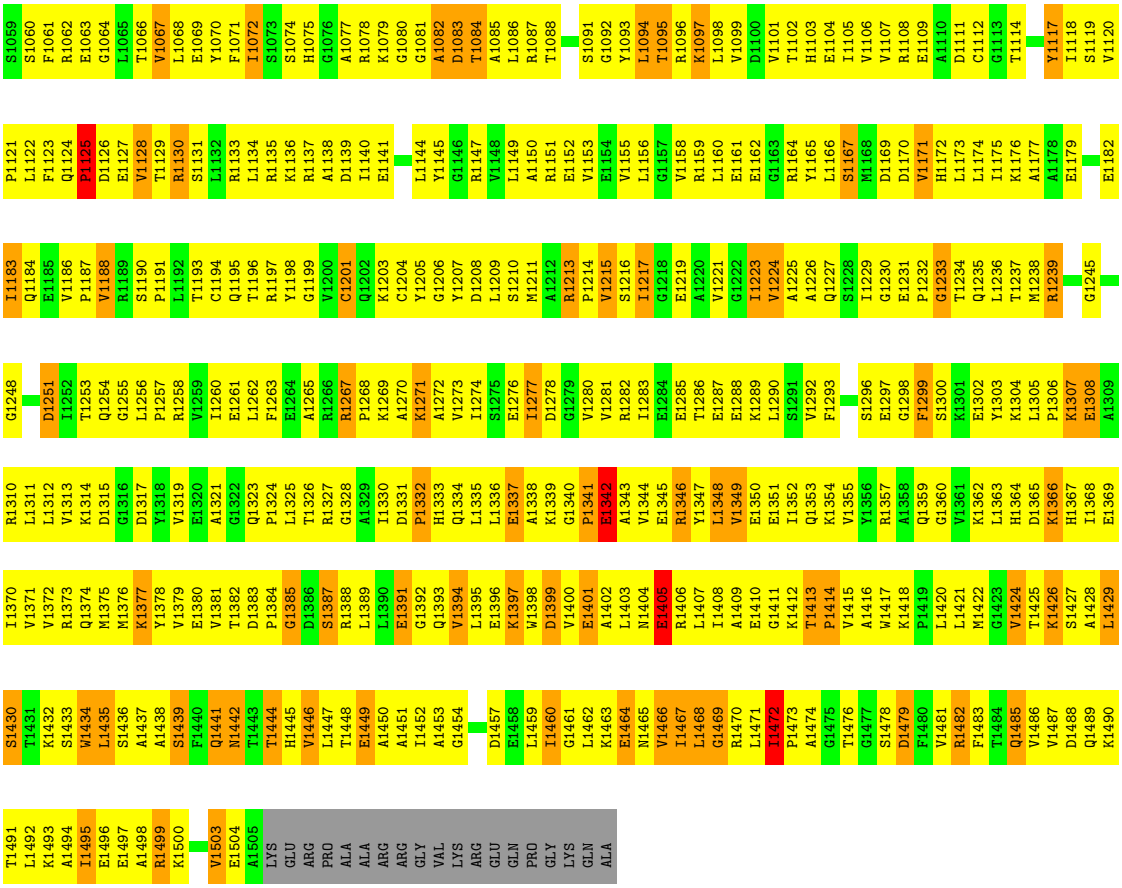


• Molecule 3: BACTERIAL RNA POLYMERASE BETA-PRIME SUBUNIT; CHAIN D, N

Chain N:

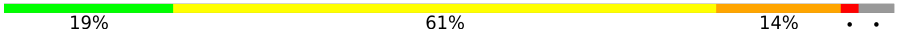


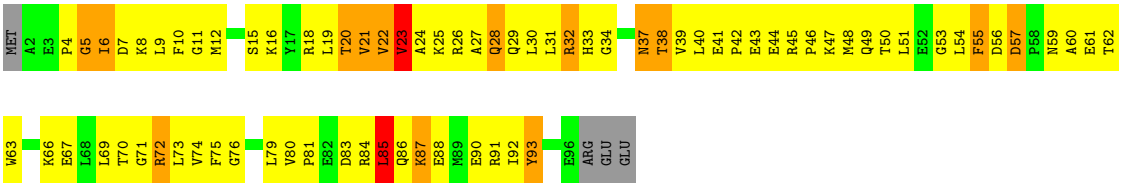




• Molecule 4: BACTERIAL RNA POLYMERASE OMEGA SUBUNIT; CHAIN E, O

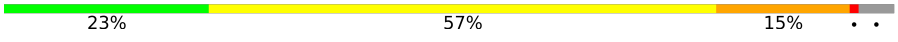
Chain E:

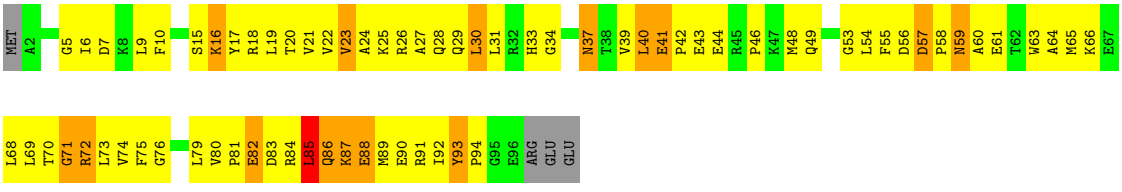




• Molecule 4: BACTERIAL RNA POLYMERASE OMEGA SUBUNIT; CHAIN E, O

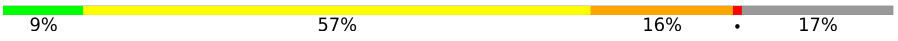
Chain O:

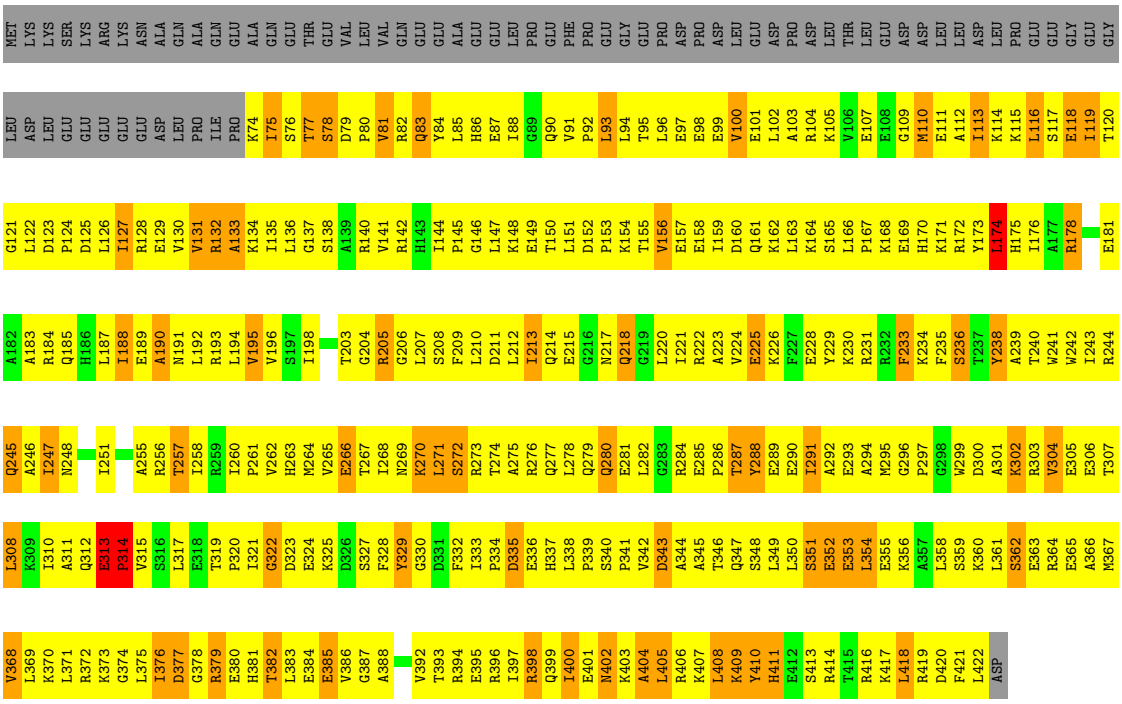




• Molecule 5: RNA polymerase pricipal sigma factor (RpoD); CHAIN F, P

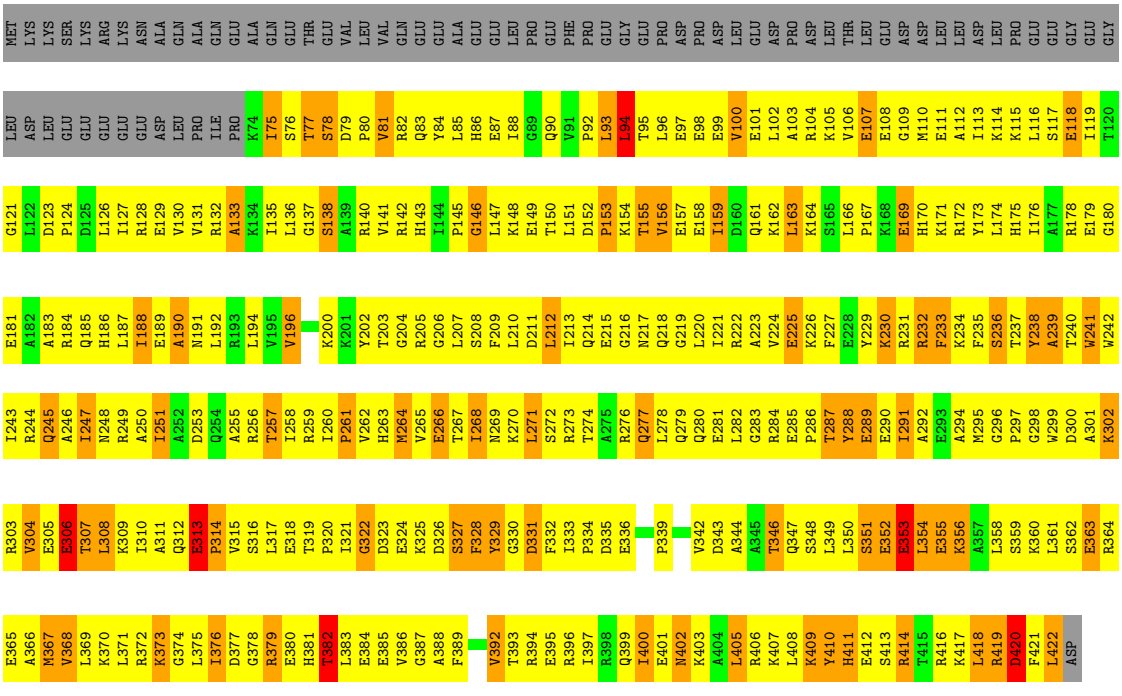
Chain F:





• Molecule 5: RNA polymerase pricipal sigma factor (RpoD); CHAIN F, P

Chain P:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α, β, γ	235.09Å 235.09Å 250.88Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	50.00 – 3.00 46.80 – 3.00	Depositor EDS
% Data completeness (in resolution range)	96.3 (50.00-3.00) 96.0 (46.80-3.00)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.52 (at 3.01Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.235 , 0.289 0.221 , 0.274	Depositor DCC
R_{free} test set	2351 reflections (0.79%)	wwPDB-VP
Wilson B-factor (Å^2)	83.8	Xtriage
Anisotropy	0.053	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 46.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.44$, $< L^2 > = 0.27$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.047 for h,-h-k,-l 0.047 for -k,-h,-l	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	56149	wwPDB-VP
Average B, all atoms (Å^2)	81.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.60% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: MPD, PO4, ZN, MG, NE6

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	0.43	0/1848	0.73	0/2512
1	B	0.39	0/1936	0.68	0/2633
1	K	0.43	0/1848	0.72	1/2512 (0.0%)
1	L	0.41	0/1936	0.70	0/2633
2	C	0.43	0/8997	0.73	8/12164 (0.1%)
2	M	0.43	0/8997	0.73	3/12164 (0.0%)
3	D	0.44	0/12073	0.77	11/16324 (0.1%)
3	N	0.46	2/12073 (0.0%)	0.76	9/16324 (0.1%)
4	E	0.40	0/783	0.69	0/1054
4	O	0.41	0/783	0.65	0/1054
5	F	0.40	0/2874	0.72	1/3866 (0.0%)
5	P	0.40	0/2874	0.69	1/3866 (0.0%)
All	All	0.43	2/57022 (0.0%)	0.74	34/77106 (0.0%)

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
3	N	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	58	CYS	CB-SG	-5.87	1.72	1.81
3	N	60	CYS	CB-SG	-5.42	1.73	1.81

All (34) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	831	GLY	N-CA-C	-12.95	80.74	113.10
3	N	831	GLY	N-CA-C	-11.03	85.51	113.10
2	C	177	GLU	N-CA-C	-8.93	86.88	111.00
5	F	313	GLU	N-CA-C	8.15	133.01	111.00
2	M	58	ASP	N-CA-C	-8.08	89.18	111.00
3	D	803	GLY	N-CA-C	-7.75	93.74	113.10
2	M	177	GLU	N-CA-C	-7.54	90.65	111.00
3	N	803	GLY	N-CA-C	-7.53	94.27	113.10
5	P	313	GLU	N-CA-C	7.14	130.27	111.00
2	C	58	ASP	N-CA-C	-6.66	93.03	111.00
3	D	1128	VAL	N-CA-C	-6.34	93.87	111.00
2	C	177	GLU	C-N-CD	-6.19	106.98	120.60
3	D	798	GLU	N-CA-C	6.16	127.63	111.00
3	N	1128	VAL	N-CA-C	-6.03	94.72	111.00
3	D	799	LYS	N-CA-C	5.89	126.90	111.00
3	N	1125	PRO	N-CA-C	5.87	127.37	112.10
3	N	199	LEU	CA-CB-CG	-5.65	102.30	115.30
3	D	131	LYS	N-CA-C	5.54	125.95	111.00
3	N	799	LYS	N-CA-C	5.35	125.44	111.00
2	C	182	VAL	N-CA-C	-5.29	96.72	111.00
3	D	807	ALA	N-CA-C	-5.28	96.74	111.00
2	M	1092	LEU	CA-CB-CG	-5.27	103.19	115.30
3	D	410	SER	N-CA-C	5.23	125.13	111.00
3	N	798	GLU	N-CA-C	5.20	125.04	111.00
3	N	807	ALA	N-CA-C	-5.19	96.99	111.00
3	D	830	ALA	N-CA-C	5.17	124.96	111.00
2	C	675	ALA	N-CA-C	-5.10	97.23	111.00
3	N	144	GLY	N-CA-C	-5.09	100.37	113.10
2	C	165	LEU	N-CA-C	5.08	124.72	111.00
2	C	178	PRO	N-CA-C	5.06	125.26	112.10
3	D	717	GLN	N-CA-C	-5.06	97.35	111.00
1	K	47	SER	N-CA-C	5.03	124.57	111.00
2	C	9	ILE	N-CA-C	-5.02	97.44	111.00
3	D	1286	THR	N-CA-C	-5.00	97.50	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	N	1117	TYR	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1816	0	1871	279	0
1	B	1902	0	1951	321	0
1	K	1816	0	1871	296	0
1	L	1902	0	1951	318	0
2	C	8829	0	8933	1694	0
2	M	8829	0	8933	1598	0
3	D	11864	0	12094	2489	0
3	N	11864	0	12094	2441	0
4	E	769	0	775	163	0
4	O	769	0	775	123	0
5	F	2829	0	2914	587	0
5	P	2829	0	2914	671	0
6	A	5	0	0	0	0
6	D	5	0	0	1	0
7	B	1	0	0	0	0
7	D	1	0	0	0	0
7	N	1	0	0	0	0
8	C	16	0	26	0	0
8	M	8	0	13	0	0
9	D	2	0	0	0	0
9	N	2	0	0	0	0
10	D	30	0	30	8	0
10	N	30	0	30	7	0
11	A	1	0	0	1	0
11	B	1	0	0	1	0
11	C	7	0	0	2	0
11	D	10	0	0	0	0
11	F	1	0	0	1	0
11	M	5	0	0	1	0
11	N	4	0	0	0	0
11	O	1	0	0	0	0
All	All	56149	0	57175	10419	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 92.

All (10419) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:283:ILE:HG22	2:M:284:ARG:H	1.03	1.17
3:D:416:ALA:HB2	3:D:432:TYR:HA	1.19	1.17
3:D:1489:GLN:HA	3:D:1492:LEU:HG	1.23	1.17
3:N:272:LEU:HD12	3:N:280:ALA:HB3	1.23	1.16
1:A:14:ARG:HB2	1:B:233:VAL:HA	1.27	1.16
3:N:322:VAL:HA	3:N:335:LEU:HG	1.20	1.16
2:C:178:PRO:O	2:C:220:GLY:HA2	1.40	1.15
3:D:237:LYS:HB3	3:D:238:PRO:HD2	1.25	1.15
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.18	1.15
2:M:264:PRO:HB2	2:M:289:THR:HG21	1.24	1.15
3:N:416:ALA:HB2	3:N:432:TYR:HA	1.16	1.15
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.24	1.15
3:D:297:ILE:HD13	3:D:298:VAL:HG23	1.24	1.14
2:C:267:TYR:HB2	2:C:272:ALA:HB2	1.25	1.14
3:D:353:VAL:HA	3:D:368:VAL:HG22	1.17	1.14
3:N:421:LEU:HG	3:N:428:LYS:HA	1.20	1.14
3:D:258:VAL:HB	3:D:273:ARG:HB2	1.15	1.14
2:M:72:ARG:HG2	2:M:95:TYR:HB2	1.27	1.13
3:N:353:VAL:HA	3:N:368:VAL:HG22	1.22	1.13
3:D:249:TYR:HB3	3:D:307:ALA:HB3	1.14	1.13
3:N:244:GLU:O	3:N:246:PRO:HD3	1.49	1.13
3:D:931:LEU:HA	3:D:934:LEU:HD12	1.30	1.12
2:C:580:MET:HB3	2:C:584:GLU:OE2	1.50	1.12
5:P:418:LEU:H	5:P:418:LEU:HD12	1.08	1.12
3:N:1494:ALA:HA	3:N:1497:GLU:HG2	1.16	1.12
3:D:274:ARG:HB3	3:D:279:VAL:HG21	1.26	1.11
1:B:137:ARG:HH12	1:B:139:ASN:HB2	1.07	1.11
2:M:15:LEU:H	2:M:15:LEU:HD12	1.02	1.11
3:D:368:VAL:HB	3:D:377:VAL:HG21	1.33	1.11
3:D:534:ARG:NH2	5:F:313:GLU:HB2	1.66	1.11
1:B:206:THR:HB	1:B:209:GLU:HG3	1.32	1.10
1:L:76:VAL:HA	1:L:79:ILE:HD12	1.33	1.10
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.26	1.10
3:D:119:SER:HB3	3:D:123:LEU:H	1.13	1.10
3:D:188:GLY:H	3:D:198:ARG:HA	0.99	1.10
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.24	1.10
3:D:804:LEU:HB2	3:D:809:PRO:HG3	1.11	1.10
3:D:1217:ILE:H	3:D:1217:ILE:HD12	1.15	1.10
2:C:31:GLN:HG2	2:C:35:PRO:HB3	1.25	1.10
2:C:72:ARG:HG2	2:C:95:TYR:HB2	1.31	1.09
5:F:413:SER:HA	5:F:416:ARG:CZ	1.81	1.09
3:N:548:ILE:HG22	3:N:552:ASN:HD21	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:VAL:HB	1:B:42:ARG:HH12	1.02	1.09
2:C:59:LYS:H	2:C:59:LYS:HD2	1.18	1.09
3:D:530:VAL:HG23	3:D:531:ASP:H	1.10	1.09
3:D:658:LEU:HA	3:D:661:MET:HE3	1.25	1.09
2:M:230:ARG:HE	2:M:233:GLU:HG2	1.06	1.09
2:M:650:ARG:HE	2:M:650:ARG:N	1.50	1.09
3:N:237:LYS:HB3	3:N:238:PRO:HD2	1.28	1.09
1:A:206:THR:HB	1:A:209:GLU:HG3	1.33	1.09
2:C:115:LEU:HD11	2:C:373:VAL:CG1	1.83	1.08
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.35	1.08
3:N:227:LEU:HA	3:N:331:VAL:HG23	1.18	1.08
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.30	1.08
2:M:192:PRO:O	2:M:195:LEU:HG	1.53	1.08
5:P:302:LYS:HD2	5:P:303:ARG:N	1.68	1.08
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.34	1.08
3:D:33:ASN:HD21	3:D:35:ARG:HG2	0.91	1.08
3:N:245:LEU:HA	3:N:309:GLY:H	1.19	1.07
3:N:675:ARG:HH22	5:P:420:ASP:HB3	1.11	1.07
5:P:368:VAL:HG23	5:P:369:LEU:H	1.12	1.07
2:C:230:ARG:HG2	2:C:233:GLU:HG3	1.35	1.07
1:K:12:THR:HA	1:L:229:GLN:HB3	1.29	1.07
2:M:762:LYS:HG2	2:M:763:GLY:H	1.19	1.07
2:C:776:SER:HA	2:C:780:GLU:HB2	1.10	1.07
3:N:36:THR:HB	3:N:38:LYS:HG2	1.36	1.07
3:N:407:VAL:HG22	3:N:408:GLU:H	1.17	1.07
3:D:356:PRO:HB3	3:D:440:VAL:HB	1.37	1.07
5:F:280:GLN:HG3	5:F:281:GLU:H	1.09	1.07
3:N:361:VAL:HG13	3:N:365:ASP:HB3	1.28	1.07
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.36	1.06
5:F:210:LEU:HA	5:F:213:ILE:HD12	1.23	1.06
2:C:368:THR:HB	2:C:369:PRO:HD3	1.37	1.06
3:D:182:GLY:HA2	3:D:203:ALA:HB3	1.31	1.06
3:N:567:ILE:HG22	3:N:571:LYS:HE3	1.37	1.06
3:D:812:ALA:HA	3:D:816:HIS:HB2	1.37	1.06
1:A:14:ARG:HD2	1:B:234:ALA:H	1.14	1.06
3:N:1286:THR:HG22	3:N:1288:GLU:H	1.10	1.05
4:O:41:GLU:HB2	4:O:42:PRO:HD2	1.35	1.05
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.38	1.05
3:D:1152:GLU:N	3:D:1162:GLU:HB3	1.72	1.05
3:N:266:GLU:HB3	3:N:286:VAL:CG2	1.87	1.05
3:N:1217:ILE:HD12	3:N:1217:ILE:H	1.21	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	1.39	1.05
5:P:278:LEU:HB2	5:P:286:PRO:HG3	1.36	1.05
3:D:47:GLU:HB2	3:D:51:GLY:O	1.57	1.05
3:N:133:ILE:HG23	3:N:456:MET:HE1	1.39	1.05
2:M:772:ARG:HE	5:P:373:LYS:HG3	1.17	1.05
3:D:227:LEU:HA	3:D:331:VAL:HG23	1.06	1.04
3:D:437:VAL:HG11	5:F:175:HIS:HB3	1.37	1.04
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.07	1.04
2:C:192:PRO:HB2	2:C:195:LEU:HD21	1.40	1.04
2:C:195:LEU:H	2:C:195:LEU:HD23	1.22	1.04
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.57	1.04
3:D:253:ALA:H	3:D:301:GLY:HA3	1.21	1.04
3:D:1101:VAL:HG21	3:D:1424:VAL:HB	1.36	1.04
2:M:650:ARG:H	2:M:650:ARG:NE	1.55	1.04
2:C:776:SER:CA	2:C:780:GLU:HB2	1.86	1.04
3:D:33:ASN:ND2	3:D:35:ARG:HG2	1.73	1.04
2:C:100:LEU:HD23	2:C:368:THR:HA	1.05	1.03
1:B:179:PHE:HB3	1:B:197:LEU:HD13	1.40	1.03
2:C:15:LEU:HD12	2:C:15:LEU:H	1.19	1.03
3:D:804:LEU:HB2	3:D:809:PRO:CG	1.89	1.03
1:L:101:LEU:HD13	1:L:114:PHE:HA	1.40	1.03
2:M:197:LEU:HB3	2:M:207:LEU:HD13	1.41	1.03
2:C:166:PRO:HG2	2:C:169:GLY:HA3	1.39	1.03
3:D:951:ILE:HD11	3:D:1062:ARG:HG3	1.41	1.03
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.35	1.03
1:L:104:GLU:HB3	1:L:137:ARG:HG3	1.41	1.03
2:M:6:PHE:HB3	2:M:908:GLY:HA2	1.41	1.03
3:N:1267:ARG:NH1	3:N:1267:ARG:HB2	1.73	1.03
2:C:1115:LEU:HB3	3:D:85:VAL:HG23	1.39	1.03
3:N:121:THR:HG23	3:N:122:GLU:H	1.19	1.02
3:N:142:LEU:HB3	3:N:146:PRO:HA	1.38	1.02
1:B:188:GLN:HG2	1:B:189:ARG:H	1.18	1.02
3:D:820:GLU:HG3	3:D:836:VAL:HG11	1.40	1.02
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.19	1.02
2:M:274:ARG:HH21	2:M:284:ARG:HB3	1.22	1.02
3:N:417:PRO:HB3	3:N:430:ASP:HA	1.38	1.02
3:N:965:GLU:HG3	3:N:969:ARG:HH21	1.20	1.02
5:P:136:LEU:HB3	5:P:140:ARG:HD3	1.36	1.02
3:D:534:ARG:HH21	5:F:313:GLU:HB2	1.18	1.02
3:D:660:LYS:HG3	3:D:694:VAL:HG22	1.37	1.02
1:B:101:LEU:HD13	1:B:114:PHE:HA	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:65:VAL:O	2:C:100:LEU:HA	1.56	1.02
2:C:988:VAL:HG12	3:D:948:THR:HB	1.42	1.02
3:D:295:GLY:HA2	3:D:302:GLN:HB3	1.37	1.02
3:D:433:GLY:HA2	3:D:449:SER:H	1.20	1.02
2:M:108:ILE:HB	2:M:368:THR:HG21	1.40	1.02
3:D:1128:VAL:CG2	3:D:1131:SER:HB3	1.88	1.02
3:D:1171:VAL:HA	3:D:1174:LEU:HD12	1.42	1.02
2:M:1101:THR:HB	3:N:5:VAL:HG21	1.37	1.02
3:N:60:CYS:SG	3:N:62:LYS:HG2	1.99	1.02
2:C:904:PRO:HB2	2:C:907:ASP:HB3	1.42	1.01
3:D:554:LEU:HA	3:D:557:LEU:HD12	1.40	1.01
2:C:195:LEU:HB2	2:C:238:LEU:HD21	1.41	1.01
3:D:127:LEU:HD23	3:D:128:TYR:N	1.76	1.01
3:D:411:THR:HB	3:D:437:VAL:HB	1.39	1.01
3:N:490:ALA:HA	3:N:493:ARG:HE	1.25	1.01
2:C:910:LYS:HG3	2:C:912:PRO:HD2	1.39	1.01
3:D:534:ARG:HE	5:F:314:PRO:HA	1.26	1.01
2:M:751:PRO:HB3	2:M:794:PRO:HA	1.42	1.01
3:N:1033:GLN:H	3:N:1033:GLN:CD	1.63	1.01
2:C:41:ASN:HA	2:C:45:GLN:HB3	1.42	1.00
2:C:283:ILE:HG22	2:C:284:ARG:H	1.20	1.00
2:C:542:VAL:HG23	2:C:543:ASN:H	1.24	1.00
3:D:284:LEU:HD12	3:D:290:PRO:HB3	1.43	1.00
3:D:355:VAL:HG11	3:D:385:VAL:HG21	1.41	1.00
3:N:253:ALA:H	3:N:301:GLY:HA3	1.26	1.00
3:N:411:THR:HG21	5:P:179:GLU:HG3	1.40	1.00
3:D:440:VAL:HG23	3:D:441:ARG:H	1.26	1.00
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.26	1.00
1:K:188:GLN:HG3	1:K:189:ARG:H	1.23	1.00
2:M:260:LEU:HD13	2:M:291:ALA:HB2	1.41	1.00
2:M:580:MET:HB3	2:M:584:GLU:CD	1.81	1.00
3:N:147:VAL:HG22	3:N:148:GLU:H	1.23	1.00
2:M:175:GLU:HG2	2:M:176:VAL:H	1.24	1.00
2:M:230:ARG:NH2	2:M:237:ARG:HH22	1.58	1.00
3:N:1098:LEU:H	3:N:1098:LEU:HD12	1.24	1.00
2:C:1115:LEU:HD13	3:D:85:VAL:HB	1.44	0.99
2:M:194:VAL:HA	2:M:197:LEU:HG	1.44	0.99
2:M:413:LEU:HA	2:M:419:THR:HG21	1.40	0.99
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.44	0.99
3:N:118:LEU:HA	3:N:123:LEU:HD12	1.40	0.99
3:D:206:ARG:HE	3:D:394:LEU:HB2	1.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:470:PRO:HG3	2:M:485:TYR:CZ	1.97	0.99
3:N:843:PHE:HE2	3:N:864:VAL:HG11	1.26	0.99
3:D:249:TYR:CE1	3:D:330:THR:HG21	1.97	0.99
2:M:230:ARG:HH21	2:M:237:ARG:NH2	1.58	0.99
2:C:100:LEU:CD2	2:C:368:THR:HA	1.93	0.99
5:F:418:LEU:H	5:F:418:LEU:HD12	1.27	0.99
2:M:186:VAL:HG13	2:M:187:ASN:H	1.28	0.99
1:L:161:ARG:HB2	1:L:164:ALA:HB2	1.45	0.99
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.42	0.99
3:D:361:VAL:HG13	3:D:379:ALA:HB1	1.44	0.99
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.41	0.99
2:C:694:LEU:HD21	2:C:868:ASP:HB3	1.44	0.99
2:C:737:LEU:HA	2:C:743:VAL:HA	1.45	0.99
3:N:254:GLU:O	3:N:299:GLU:HB2	1.61	0.99
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.24	0.99
1:L:241:GLU:H	1:L:242:PRO:HD2	1.27	0.99
2:M:301:GLU:HA	2:M:304:LEU:HD22	1.41	0.99
3:N:826:PRO:O	3:N:829:VAL:HG22	1.63	0.99
1:B:104:GLU:HB3	1:B:137:ARG:HG3	1.41	0.98
3:D:206:ARG:HH21	3:D:394:LEU:HD13	1.24	0.98
3:D:257:GLY:HA2	3:D:274:ARG:HA	1.43	0.98
2:M:542:VAL:HG23	2:M:543:ASN:H	1.26	0.98
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.45	0.98
3:N:274:ARG:HB3	3:N:279:VAL:HG21	1.45	0.98
2:C:56:GLU:OE2	2:C:356:ARG:HA	1.61	0.98
2:M:243:ARG:HG3	2:M:244:PRO:HA	1.44	0.98
3:D:1161:GLU:HG3	3:D:1164:ARG:HB2	1.43	0.98
1:A:41:ARG:HA	1:A:44:LEU:HD12	1.45	0.98
2:C:257:VAL:HA	2:C:261:ILE:HD12	1.39	0.98
5:P:75:ILE:HG13	5:P:76:SER:H	1.27	0.97
3:D:227:LEU:HD11	3:D:326:GLU:HA	1.46	0.97
3:N:584:ASN:OD1	3:N:590:PRO:HD2	1.61	0.97
4:E:40:LEU:HD12	4:E:41:GLU:H	1.30	0.97
2:M:226:VAL:HG23	2:M:227:PHE:HD1	1.30	0.97
5:F:81:VAL:HG23	5:F:82:ARG:H	1.28	0.97
1:L:73:GLU:HG3	1:L:130:ALA:HB1	1.47	0.97
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.44	0.97
2:M:690:ILE:HG22	2:M:852:ILE:HG23	1.46	0.97
3:N:1171:VAL:HA	3:N:1174:LEU:HD12	1.45	0.97
5:P:208:SER:HB3	5:P:211:ASP:OD2	1.65	0.97
2:M:1056:LYS:HE2	3:N:625:TYR:HB2	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:343:ASP:HB3	5:P:347:GLN:HE22	1.30	0.97
1:B:76:VAL:HA	1:B:79:ILE:HD12	1.44	0.96
3:D:1277:ILE:HG22	3:D:1278:ASP:H	1.29	0.96
5:F:385:GLU:HA	5:F:388:ALA:HB3	1.42	0.96
2:C:238:LEU:O	2:C:241:LEU:HG	1.64	0.96
3:D:227:LEU:HA	3:D:331:VAL:CG2	1.94	0.96
2:M:257:VAL:HA	2:M:261:ILE:HD12	1.46	0.96
2:M:600:ASP:HB3	2:M:650:ARG:HA	1.45	0.96
2:C:650:ARG:H	2:C:650:ARG:NE	1.63	0.96
3:N:133:ILE:HB	3:N:454:ALA:HB1	1.46	0.96
2:C:267:TYR:HB2	2:C:272:ALA:CB	1.95	0.96
2:C:363:SER:HB2	2:C:366:SER:HB3	1.43	0.96
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.28	0.96
1:B:185:ARG:HA	1:B:190:THR:HA	1.47	0.96
3:D:137:PRO:HD2	3:D:453:ASP:HB3	1.48	0.96
3:D:843:PHE:HE2	3:D:864:VAL:HG11	1.29	0.96
2:C:625:LEU:HD11	2:C:639:GLN:HB2	1.45	0.96
3:D:245:LEU:H	3:D:309:GLY:CA	1.77	0.96
2:C:926:PHE:HE2	2:C:960:GLU:HG3	1.31	0.96
2:M:59:LYS:N	2:M:59:LYS:HD2	1.81	0.95
3:N:249:TYR:HB3	3:N:307:ALA:HB3	1.46	0.95
5:P:368:VAL:HG23	5:P:369:LEU:HG	1.47	0.95
1:L:206:THR:HB	1:L:209:GLU:HG3	1.47	0.95
2:C:650:ARG:HE	2:C:650:ARG:N	1.63	0.95
3:D:139:GLY:O	3:D:147:VAL:HB	1.65	0.95
3:N:22:SER:HA	3:N:90:MET:O	1.66	0.95
2:M:839:LEU:HD23	2:M:996:LYS:HA	1.45	0.95
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.47	0.95
3:N:1267:ARG:HH21	3:N:1271:LYS:HZ1	0.99	0.95
3:N:1341:PRO:HG2	3:N:1342:GLU:OE2	1.67	0.95
2:C:881:ASN:H	2:C:881:ASN:HD22	0.98	0.95
3:D:223:LEU:O	3:D:332:TYR:HA	1.67	0.95
3:N:542:ASP:O	3:N:546:ARG:HG2	1.66	0.95
3:N:827:ILE:HA	3:N:836:VAL:HB	1.48	0.95
2:M:93:PRO:HA	2:M:117:HIS:HB3	1.49	0.95
3:N:485:SER:O	3:N:489:ARG:HD3	1.66	0.95
2:M:21:ILE:H	2:M:21:ILE:HD12	1.29	0.95
3:N:217:LYS:HB2	3:N:339:TRP:HE1	1.30	0.95
3:D:543:LEU:HA	3:D:546:ARG:HD3	1.47	0.95
2:M:368:THR:H	2:M:369:PRO:CD	1.80	0.94
3:D:30:GLU:HB3	3:D:40:GLU:HG2	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:417:PRO:HB2	3:D:428:LYS:HG2	1.49	0.94
3:D:248:PRO:HA	3:D:308:LYS:HZ3	1.31	0.94
3:D:249:TYR:CB	3:D:307:ALA:HB3	1.97	0.94
5:F:215:GLU:O	5:F:218:GLN:HG3	1.67	0.94
2:M:474:VAL:HG12	2:M:530:GLU:O	1.66	0.94
3:D:408:GLU:OE2	3:D:421:LEU:HG	1.68	0.94
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.49	0.94
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.46	0.94
2:C:31:GLN:HG2	2:C:35:PRO:CB	1.97	0.94
2:C:38:LYS:HG3	2:C:39:ARG:H	1.32	0.94
3:D:147:VAL:HG22	3:D:148:GLU:H	1.32	0.94
3:D:187:LYS:HG3	3:D:198:ARG:HG3	1.50	0.94
3:D:485:SER:O	3:D:489:ARG:HD3	1.67	0.94
3:N:349:PRO:HB2	5:P:232:ARG:HH22	1.32	0.94
1:A:76:VAL:HA	1:A:79:ILE:HD12	1.49	0.94
5:F:392:VAL:HG11	5:F:396:ARG:HD3	1.49	0.94
1:L:235:ALA:HB3	1:L:236:PRO:HD3	1.50	0.94
3:D:421:LEU:HD23	3:D:427:VAL:HG12	1.47	0.94
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.48	0.94
3:D:1353:GLN:O	3:D:1357:ARG:HG2	1.68	0.94
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.50	0.93
1:K:110:LYS:HB2	1:K:112:ARG:HG2	1.48	0.93
3:N:127:LEU:HD23	3:N:128:TYR:N	1.83	0.93
3:D:188:GLY:N	3:D:198:ARG:HA	1.82	0.93
2:M:230:ARG:NE	2:M:233:GLU:HG2	1.83	0.93
3:N:15:PRO:HA	3:N:18:ILE:HD12	1.50	0.93
2:M:1058:ASP:OD2	2:M:1084:SER:HB3	1.69	0.93
2:M:31:GLN:HG2	2:M:35:PRO:HB3	1.48	0.93
2:C:503:LEU:HD12	2:C:508:ILE:HA	1.50	0.93
2:M:1047:HIS:O	2:M:1051:GLU:HG2	1.68	0.93
3:N:906:GLN:HB3	3:N:911:LEU:HD21	1.47	0.93
2:C:21:ILE:H	2:C:21:ILE:HD12	1.30	0.93
3:D:543:LEU:O	3:D:546:ARG:HG3	1.67	0.93
5:F:379:ARG:HD3	5:F:380:GLU:HB2	1.50	0.93
5:F:282:LEU:HG	5:F:284:ARG:HG2	1.49	0.93
3:N:931:LEU:HA	3:N:934:LEU:HD12	1.49	0.93
2:C:654:LEU:HD12	2:C:655:LEU:H	1.33	0.92
2:C:751:PRO:HB3	2:C:794:PRO:HA	1.51	0.92
3:N:535:PHE:O	5:P:314:PRO:HB2	1.69	0.92
2:C:182:VAL:HB	2:C:193:LEU:H	1.34	0.92
2:M:397:GLU:H	2:M:633:GLN:HE21	1.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:ARG:HB3	1:B:112:ARG:NH1	1.84	0.92
2:C:115:LEU:HD11	2:C:373:VAL:HG12	1.49	0.92
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.48	0.92
3:D:128:TYR:HD1	3:D:457:GLY:HA2	1.35	0.92
3:D:954:ALA:HB3	3:D:1062:ARG:HD2	1.52	0.92
1:K:122:ILE:HG22	1:K:124:ASN:H	1.30	0.92
3:D:1172:HIS:HA	3:D:1175:ILE:HD12	1.48	0.92
3:N:348:GLN:H	3:N:351:MET:HE2	1.30	0.92
3:N:699:VAL:HG12	3:N:717:GLN:HG2	1.49	0.92
3:N:1498:ALA:HB3	4:O:84:ARG:CZ	2.00	0.92
1:B:41:ARG:HA	1:B:44:LEU:HD12	1.49	0.92
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.52	0.92
3:D:1128:VAL:HG21	3:D:1131:SER:HB3	1.48	0.92
2:M:1101:THR:HB	3:N:5:VAL:CG2	1.99	0.92
2:C:166:PRO:HG2	2:C:169:GLY:CA	2.00	0.92
3:N:358:GLY:HA2	3:N:385:VAL:HB	1.51	0.92
3:N:553:ARG:HH12	5:P:211:ASP:HA	1.33	0.92
2:M:503:LEU:HD12	2:M:508:ILE:HA	1.50	0.92
3:N:297:ILE:HG23	3:N:298:VAL:H	1.35	0.92
3:N:806:PHE:HA	3:N:809:PRO:HD2	1.49	0.92
3:D:118:LEU:HA	3:D:123:LEU:HD12	1.52	0.92
3:D:1405:GLU:O	3:D:1412:LYS:HA	1.70	0.92
1:K:152:PRO:HG2	1:K:155:LYS:HB2	1.50	0.92
3:N:82:LYS:HB2	3:N:84:ILE:HG22	1.50	0.92
3:N:131:LYS:HA	3:N:456:MET:HG3	1.52	0.92
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.51	0.91
1:L:137:ARG:HH12	1:L:139:ASN:HB2	1.33	0.91
2:M:325:ILE:H	2:M:325:ILE:HD12	1.34	0.91
2:M:1058:ASP:O	2:M:1083:GLU:HG2	1.70	0.91
3:D:253:ALA:H	3:D:301:GLY:CA	1.84	0.91
3:D:930:LEU:HG	3:D:934:LEU:HD11	1.53	0.91
3:N:138:LYS:HB3	3:N:450:TYR:OH	1.67	0.91
3:N:368:VAL:HB	3:N:377:VAL:HG21	1.50	0.91
3:N:565:ILE:HG23	3:N:566:ILE:H	1.33	0.91
2:C:1104:GLU:HA	3:D:7:LYS:NZ	1.86	0.91
1:L:197:LEU:HD12	1:L:198:ARG:H	1.33	0.91
3:N:408:GLU:HB3	3:N:422:ALA:HB2	1.50	0.91
2:C:305:PRO:HA	2:C:308:ARG:NE	1.86	0.91
3:D:313:MET:SD	3:D:314:PRO:HD2	2.10	0.91
2:M:185:LYS:HG2	2:M:190:LYS:HD3	1.50	0.91
1:L:233:VAL:O	1:L:236:PRO:HD2	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:238:LEU:O	2:M:241:LEU:HG	1.71	0.91
2:M:264:PRO:HB2	2:M:289:THR:CG2	2.01	0.91
3:N:800:LYS:HD2	3:N:800:LYS:C	1.91	0.91
1:A:34:VAL:HB	1:B:42:ARG:NH1	1.85	0.91
2:C:317:VAL:N	2:C:318:PRO:HD3	1.85	0.91
3:N:1345:GLU:HA	3:N:1348:LEU:HD12	1.51	0.91
2:C:72:ARG:CG	2:C:95:TYR:HB2	2.01	0.91
3:D:133:ILE:HG23	3:D:456:MET:HG3	1.50	0.91
3:D:245:LEU:H	3:D:309:GLY:HA2	1.34	0.91
3:D:610:LYS:NZ	3:D:1442:ASN:H	1.68	0.91
4:E:37:ASN:HD22	4:E:37:ASN:N	1.69	0.91
5:F:189:GLU:HA	5:F:192:LEU:HG	1.50	0.91
2:M:628:PHE:HD1	2:M:628:PHE:H	1.17	0.91
5:P:343:ASP:HB3	5:P:347:GLN:NE2	1.86	0.91
3:D:417:PRO:HB3	3:D:430:ASP:N	1.85	0.91
3:N:484:PRO:O	3:N:489:ARG:HB2	1.71	0.91
2:C:910:LYS:HG2	2:C:913:GLU:HG3	1.50	0.90
3:D:137:PRO:CD	3:D:453:ASP:HB3	2.01	0.90
1:K:76:VAL:HA	1:K:79:ILE:HD12	1.52	0.90
3:D:416:ALA:HB2	3:D:432:TYR:CA	2.00	0.90
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	1.70	0.90
2:C:150:PRO:HA	2:C:158:TYR:CB	1.98	0.90
2:C:186:VAL:HG23	2:C:187:ASN:H	1.33	0.90
2:C:759:THR:HB	2:C:785:VAL:HG12	1.53	0.90
1:K:206:THR:HB	1:K:209:GLU:HG3	1.52	0.90
2:M:585:GLU:O	2:M:588:VAL:HG22	1.71	0.90
2:C:776:SER:HA	2:C:780:GLU:CB	2.00	0.90
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.01	0.90
2:C:415:PRO:HB2	2:C:418:LEU:HB2	1.51	0.90
3:D:1489:GLN:HA	3:D:1492:LEU:CG	2.01	0.90
2:M:679:PHE:HA	3:N:943:THR:HG23	1.52	0.90
1:B:212:ASN:O	1:B:215:VAL:HG22	1.72	0.90
1:B:235:ALA:HB3	1:B:236:PRO:HD3	1.53	0.90
3:D:243:ALA:HB3	3:D:311:LEU:HD12	1.52	0.90
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.00	0.90
2:C:115:LEU:HD11	2:C:373:VAL:HG11	1.53	0.90
1:L:36:LEU:O	1:L:39:PRO:HD2	1.72	0.90
1:L:58:ILE:HG12	1:L:140:MET:CB	2.02	0.90
2:M:15:LEU:HD12	2:M:15:LEU:N	1.87	0.90
3:N:147:VAL:HG22	3:N:148:GLU:N	1.86	0.90
3:N:217:LYS:HB2	3:N:339:TRP:NE1	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:241:ILE:HD13	3:N:310:LEU:HD22	1.52	0.90
5:P:367:MET:HB2	5:P:371:LEU:HG	1.53	0.90
1:A:226:SER:O	1:A:228:PRO:HD3	1.72	0.90
3:D:367:ILE:HB	3:D:377:VAL:HG12	1.53	0.90
2:M:15:LEU:H	2:M:15:LEU:CD1	1.78	0.90
3:N:52:PRO:O	3:N:86:ARG:HD2	1.71	0.90
3:N:219:GLU:HG2	3:N:220:ARG:H	1.35	0.90
5:F:265:VAL:HA	5:F:268:ILE:HD12	1.54	0.90
3:N:249:TYR:CB	3:N:307:ALA:HB3	2.01	0.90
3:N:322:VAL:HA	3:N:335:LEU:CG	2.01	0.90
2:C:290:LEU:HD22	2:C:302:VAL:HG21	1.51	0.90
3:D:368:VAL:HB	3:D:377:VAL:CG2	2.01	0.90
2:M:958:THR:HG23	2:M:961:GLU:HB2	1.53	0.90
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.53	0.89
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.02	0.89
1:L:143:ARG:HD3	1:L:144:VAL:N	1.85	0.89
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.53	0.89
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.55	0.89
4:E:41:GLU:HB2	4:E:42:PRO:HD2	1.53	0.89
3:N:410:SER:HB3	5:P:175:HIS:ND1	1.88	0.89
2:C:59:LYS:HD2	2:C:59:LYS:N	1.88	0.89
5:P:321:ILE:HG13	5:P:332:PHE:CE1	2.08	0.89
1:A:86:VAL:HG12	1:A:124:ASN:HD21	1.35	0.89
2:C:516:ARG:HA	2:C:520:GLU:O	1.72	0.89
3:D:266:GLU:HB2	3:D:314:PRO:HG3	1.55	0.89
2:M:230:ARG:O	2:M:233:GLU:HG3	1.70	0.89
5:P:413:SER:HA	5:P:416:ARG:CZ	2.03	0.89
2:C:151:ASP:H	2:C:158:TYR:HA	1.38	0.89
3:D:387:LEU:H	3:D:387:LEU:HD12	1.36	0.89
1:K:9:PRO:HG3	1:K:27:PRO:O	1.70	0.89
5:P:265:VAL:HA	5:P:268:ILE:HD12	1.54	0.89
3:D:227:LEU:CA	3:D:331:VAL:HG23	2.01	0.89
3:D:811:GLU:O	3:D:815:ALA:HB3	1.72	0.89
3:N:322:VAL:CA	3:N:335:LEU:HG	2.03	0.89
1:B:161:ARG:HB2	1:B:164:ALA:HB2	1.55	0.89
2:C:150:PRO:CA	2:C:158:TYR:HB3	1.98	0.89
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.54	0.89
3:D:230:TRP:HE1	3:D:233:LYS:HG3	1.37	0.89
2:M:41:ASN:HA	2:M:45:GLN:HB3	1.55	0.89
2:C:504:GLU:O	2:C:507:ARG:HD2	1.72	0.89
2:M:267:TYR:HB2	2:M:272:ALA:HB3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:79:GLU:HG2	3:D:80:VAL:N	1.88	0.89
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.53	0.89
2:C:325:ILE:HD12	2:C:325:ILE:H	1.38	0.89
2:M:698:ASP:HA	2:M:832:LYS:HE3	1.53	0.89
3:N:285:PRO:HB2	3:N:312:ARG:O	1.72	0.89
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.35	0.89
3:D:1407:LEU:O	3:D:1410:GLU:HG2	1.73	0.88
5:F:101:GLU:HA	5:F:104:ARG:NH1	1.87	0.88
2:M:283:ILE:CG2	2:M:284:ARG:H	1.86	0.88
3:N:826:PRO:HD2	3:N:829:VAL:HG11	1.55	0.88
2:M:958:THR:HG23	2:M:961:GLU:CB	2.02	0.88
5:F:368:VAL:HG23	5:F:369:LEU:H	1.39	0.88
2:M:283:ILE:HG22	2:M:284:ARG:N	1.86	0.88
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.03	0.88
3:N:1267:ARG:HE	3:N:1271:LYS:HZ2	1.19	0.88
3:D:79:GLU:HG2	3:D:80:VAL:H	1.37	0.88
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.73	0.88
2:C:626:ARG:HG3	2:C:629:TYR:HD1	1.37	0.88
3:D:530:VAL:HG23	3:D:531:ASP:N	1.88	0.88
3:D:584:ASN:OD1	3:D:590:PRO:HD2	1.73	0.88
2:C:23:VAL:HA	2:C:121:MET:CE	2.04	0.88
2:C:269:LEU:HD12	2:C:288:ARG:HB3	1.55	0.88
2:C:304:LEU:HB3	2:C:305:PRO:CD	2.03	0.88
3:D:237:LYS:HB3	3:D:238:PRO:CD	2.03	0.88
2:M:44:ILE:HG23	2:M:344:PHE:HE1	1.37	0.88
2:M:413:LEU:HA	2:M:419:THR:CG2	2.02	0.88
2:M:781:LYS:HA	2:M:781:LYS:HE2	1.53	0.88
3:N:845:ASN:HB2	3:N:848:GLU:HB2	1.56	0.88
2:C:762:LYS:HG2	2:C:763:GLY:H	1.39	0.88
3:D:238:PRO:HB3	3:D:317:VAL:O	1.73	0.88
2:M:603:VAL:HG23	2:M:647:GLN:O	1.74	0.88
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.08	0.88
3:N:1495:ILE:O	3:N:1499:ARG:HB2	1.72	0.88
2:C:157:ARG:HG3	2:C:158:TYR:H	1.39	0.88
3:D:260:GLU:HB2	3:D:271:VAL:HB	1.55	0.88
1:L:58:ILE:HG23	1:L:139:ASN:O	1.74	0.88
3:N:416:ALA:HB2	3:N:432:TYR:CA	2.02	0.88
3:D:806:PHE:HA	3:D:809:PRO:HD2	1.53	0.88
3:D:249:TYR:HB3	3:D:307:ALA:CB	2.00	0.88
2:M:38:LYS:HG3	2:M:39:ARG:H	1.37	0.88
2:M:277:ALA:HB1	2:M:281:LEU:HD12	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:592:THR:HG23	3:N:600:LEU:HD21	1.56	0.88
3:N:805:GLU:HA	3:N:831:GLY:HA2	1.55	0.88
2:C:185:LYS:HG2	2:C:190:LYS:HD3	1.54	0.87
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.55	0.87
3:N:79:GLU:HG2	3:N:80:VAL:H	1.38	0.87
1:B:32:PHE:HA	1:B:35:THR:HB	1.56	0.87
2:C:401:LEU:HD11	2:C:543:ASN:HB3	1.55	0.87
3:D:552:ASN:HA	3:D:555:LYS:HD2	1.54	0.87
5:F:261:PRO:O	5:F:264:MET:HB2	1.74	0.87
2:M:317:VAL:N	2:M:318:PRO:HD3	1.89	0.87
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.53	0.87
5:F:280:GLN:HG3	5:F:281:GLU:N	1.87	0.87
3:N:349:PRO:HB2	5:P:232:ARG:NH2	1.88	0.87
3:N:864:VAL:HG12	3:N:865:THR:H	1.38	0.87
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.38	0.87
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.54	0.87
3:D:223:LEU:HG	3:D:224:ARG:H	1.37	0.87
1:K:152:PRO:HB2	1:K:154:GLU:OE1	1.73	0.87
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.56	0.87
3:N:227:LEU:HA	3:N:331:VAL:CG2	2.03	0.87
5:F:80:PRO:HA	5:F:83:GLN:HE21	1.39	0.87
5:F:263:HIS:HA	5:F:266:GLU:OE2	1.73	0.87
2:C:186:VAL:HG23	2:C:187:ASN:N	1.86	0.87
3:D:1031:ASN:H	3:D:1034:GLN:NE2	1.72	0.87
2:M:776:SER:HB3	5:P:379:ARG:HH22	1.38	0.87
2:C:603:VAL:HG23	2:C:647:GLN:O	1.75	0.87
4:E:37:ASN:ND2	4:E:37:ASN:H	1.70	0.87
1:L:106:PRO:HA	1:L:133:GLU:HA	1.54	0.87
3:N:119:SER:H	3:N:123:LEU:CG	1.87	0.87
3:N:1213:ARG:HG2	3:N:1213:ARG:HH11	1.40	0.87
5:P:373:LYS:HD2	5:P:374:GLY:N	1.90	0.87
3:D:548:ILE:HG22	3:D:552:ASN:HD21	1.38	0.87
3:D:1307:LYS:HE3	3:D:1307:LYS:H	1.38	0.87
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.05	0.87
3:D:1494:ALA:HB1	4:E:88:GLU:HB3	1.57	0.87
2:M:250:ARG:CB	2:M:253:ALA:HB2	2.05	0.87
3:N:288:MET:HE1	3:N:307:ALA:HB2	1.56	0.87
3:N:553:ARG:HH11	5:P:214:GLN:HB2	1.40	0.87
1:B:58:ILE:HG12	1:B:139:ASN:O	1.75	0.86
1:B:188:GLN:HG2	1:B:189:ARG:N	1.90	0.86
3:D:433:GLY:HA2	3:D:449:SER:N	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:108:GLU:HG3	1:L:131:THR:HG22	1.57	0.86
2:M:694:LEU:HD21	2:M:868:ASP:HB3	1.54	0.86
3:N:1353:GLN:O	3:N:1357:ARG:HG2	1.74	0.86
3:D:127:LEU:HD22	3:D:461:ILE:HD11	1.57	0.86
3:N:237:LYS:HB3	3:N:238:PRO:CD	2.04	0.86
3:D:259:VAL:HA	3:D:270:LEU:HD11	1.54	0.86
2:M:302:VAL:O	2:M:305:PRO:HD2	1.74	0.86
3:N:843:PHE:CE2	3:N:864:VAL:HG11	2.10	0.86
3:N:1312:LEU:HB3	3:N:1325:LEU:O	1.75	0.86
3:D:188:GLY:H	3:D:198:ARG:CA	1.86	0.86
2:M:368:THR:H	2:M:369:PRO:HD3	1.40	0.86
3:N:257:GLY:HA2	3:N:274:ARG:HA	1.56	0.86
2:C:243:ARG:HG3	2:C:244:PRO:HA	1.55	0.86
3:D:417:PRO:HB3	3:D:430:ASP:HA	1.58	0.86
3:N:356:PRO:HB3	3:N:440:VAL:HB	1.58	0.86
5:P:352:GLU:HA	5:P:355:GLU:OE2	1.74	0.86
5:F:289:GLU:CD	5:F:289:GLU:H	1.79	0.86
2:M:1085:PHE:O	2:M:1088:LEU:HB3	1.75	0.86
3:N:808:THR:H	3:N:809:PRO:CD	1.88	0.86
2:M:1005:MET:HG2	3:N:629:SER:HB2	1.57	0.86
3:N:10:ILE:O	3:N:1454:GLY:HA2	1.75	0.86
3:N:411:THR:HG21	5:P:179:GLU:CG	2.04	0.86
5:P:282:LEU:HG	5:P:284:ARG:CG	2.03	0.86
2:C:93:PRO:HG3	2:C:117:HIS:HD2	1.40	0.86
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.55	0.86
3:D:210:ARG:HB2	3:D:389:GLU:HG3	1.54	0.86
3:D:438:ASP:OD1	3:D:440:VAL:HG22	1.75	0.86
3:N:243:ALA:HB3	3:N:311:LEU:HD12	1.57	0.86
3:N:1099:VAL:HG12	10:N:1528:NE6:H14	1.58	0.86
2:M:226:VAL:HG23	2:M:227:PHE:CD1	2.10	0.86
3:N:1406:ARG:HD3	3:N:1412:LYS:NZ	1.90	0.86
2:C:23:VAL:HA	2:C:121:MET:HE1	1.58	0.86
2:C:605:LYS:HB3	2:C:610:ARG:NH2	1.88	0.86
3:N:1267:ARG:HB2	3:N:1267:ARG:HH11	1.41	0.86
2:M:1051:GLU:HG3	2:M:1052:MET:H	1.40	0.85
3:N:1341:PRO:O	3:N:1344:VAL:HG12	1.74	0.85
3:D:1029:ARG:HH11	3:D:1029:ARG:HG3	1.40	0.85
3:N:441:ARG:HG3	3:N:443:VAL:HG23	1.59	0.85
1:A:138:LEU:HD12	1:A:139:ASN:H	1.41	0.85
3:D:295:GLY:CA	3:D:302:GLN:HB3	2.06	0.85
3:D:348:GLN:H	3:D:351:MET:HE2	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:521:PRO:HD2	3:D:524:LEU:HD12	1.57	0.85
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.57	0.85
2:M:1088:LEU:HA	2:M:1091:GLU:OE1	1.76	0.85
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.58	0.85
2:M:878:SER:HA	3:N:1034:GLN:OE1	1.76	0.85
3:N:1404:ASN:HA	3:N:1408:ILE:HB	1.56	0.85
5:P:138:SER:O	5:P:141:VAL:HG22	1.76	0.85
5:P:367:MET:HB3	5:P:370:LYS:HE2	1.58	0.85
2:C:881:ASN:H	2:C:881:ASN:ND2	1.75	0.85
2:C:1064:ASN:HA	5:F:341:PRO:HB3	1.56	0.85
3:D:95:LEU:HB2	3:D:515:GLU:HA	1.58	0.85
3:D:658:LEU:CA	3:D:661:MET:HE3	2.06	0.85
3:D:1489:GLN:CA	3:D:1492:LEU:HG	2.06	0.85
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.76	0.85
1:B:106:PRO:HA	1:B:133:GLU:HA	1.58	0.85
3:D:367:ILE:HB	3:D:377:VAL:CG1	2.06	0.85
2:M:230:ARG:HG2	2:M:233:GLU:CG	2.07	0.85
2:M:649:VAL:HA	2:M:650:ARG:HH21	1.41	0.85
3:N:1400:VAL:HG12	3:N:1404:ASN:HD21	1.42	0.85
1:B:36:LEU:O	1:B:39:PRO:HD2	1.77	0.85
2:C:737:LEU:HD12	2:C:743:VAL:N	1.91	0.85
3:N:106:LYS:HA	3:N:106:LYS:HE2	1.58	0.85
2:C:1071:ILE:O	3:D:659:LYS:HD3	1.76	0.85
3:D:352:ASN:C	3:D:368:VAL:HG13	1.97	0.85
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.58	0.85
2:M:146:VAL:HG22	2:M:162:ILE:HG12	1.58	0.85
2:C:640:ARG:HD2	2:C:642:ARG:HH22	1.41	0.84
1:K:90:LEU:HD12	1:K:119:ASP:HA	1.58	0.84
2:M:264:PRO:CB	2:M:289:THR:HG21	2.06	0.84
2:M:448:ASN:HA	2:M:451:LEU:HD12	1.59	0.84
3:N:826:PRO:HB2	3:N:829:VAL:HG13	1.57	0.84
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.74	0.84
3:D:261:LEU:HA	3:D:269:PHE:O	1.76	0.84
3:D:417:PRO:HB3	3:D:430:ASP:CA	2.07	0.84
5:F:355:GLU:HA	5:F:358:LEU:HB3	1.56	0.84
3:N:565:ILE:HD13	5:P:192:LEU:HD13	1.58	0.84
3:N:168:THR:HG21	5:P:93:LEU:HD22	1.59	0.84
3:N:806:PHE:CG	3:N:809:PRO:HB2	2.12	0.84
3:N:135:LEU:HD21	3:N:153:LEU:HB2	1.59	0.84
3:N:819:GLY:CA	3:N:824:ASN:HD22	1.90	0.84
5:P:101:GLU:HA	5:P:104:ARG:NH1	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:406:ASP:HB2	3:D:424:GLY:N	1.91	0.84
5:F:87:GLU:O	5:F:90:GLN:HB2	1.77	0.84
2:M:373:VAL:HG12	2:M:374:ASN:H	1.41	0.84
3:N:137:PRO:HG2	3:N:138:LYS:H	1.40	0.84
1:B:137:ARG:NH1	1:B:139:ASN:HB2	1.91	0.84
2:C:370:ALA:HA	2:C:373:VAL:HG23	1.60	0.84
2:C:535:SER:O	2:C:538:GLN:HG2	1.76	0.84
3:D:57:GLU:HG3	3:D:64:LYS:HA	1.59	0.84
2:M:1092:LEU:HA	2:M:1095:LEU:HD12	1.58	0.84
3:N:1494:ALA:CA	3:N:1497:GLU:HG2	2.04	0.84
5:P:373:LYS:HB3	5:P:373:LYS:NZ	1.90	0.84
2:C:71:TYR:H	2:C:71:TYR:HD2	1.26	0.84
2:C:233:GLU:CD	2:C:234:ALA:H	1.80	0.84
1:K:111:ALA:HA	1:K:129:ILE:HD11	1.59	0.84
2:M:535:SER:O	2:M:538:GLN:HG2	1.77	0.84
2:M:881:ASN:HD22	2:M:881:ASN:H	1.20	0.84
2:C:193:LEU:HD12	2:C:196:LEU:HD12	1.57	0.84
1:K:100:LEU:HB3	1:K:115:LEU:HD12	1.57	0.84
2:M:194:VAL:HA	2:M:197:LEU:CG	2.07	0.84
3:N:133:ILE:HD13	3:N:133:ILE:H	1.42	0.84
3:N:562:ALA:HB3	3:N:567:ILE:HD11	1.59	0.84
3:N:771:SER:HB2	3:N:778:LEU:HD22	1.60	0.84
2:C:186:VAL:CG2	2:C:187:ASN:H	1.89	0.84
2:C:643:VAL:HG23	2:C:647:GLN:NE2	1.93	0.84
2:M:41:ASN:C	2:M:41:ASN:HD22	1.81	0.84
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.13	0.83
2:M:175:GLU:HG2	2:M:176:VAL:N	1.93	0.83
3:N:322:VAL:HG23	3:N:335:LEU:HD11	1.60	0.83
3:N:510:GLU:O	3:N:513:ILE:HG22	1.78	0.83
1:B:175:ARG:HG3	1:B:201:THR:O	1.78	0.83
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.60	0.83
3:D:569:ASN:O	3:D:572:ARG:HB3	1.79	0.83
2:M:762:LYS:HG2	2:M:763:GLY:N	1.93	0.83
3:N:141:ILE:HB	3:N:450:TYR:HD2	1.41	0.83
3:N:368:VAL:HB	3:N:377:VAL:CG2	2.07	0.83
3:N:420:VAL:O	3:N:421:LEU:HD23	1.77	0.83
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.42	0.83
1:B:108:GLU:HG3	1:B:131:THR:HG22	1.61	0.83
2:C:44:ILE:HG23	2:C:344:PHE:HE1	1.40	0.83
2:M:285:LEU:HG	2:M:286:SER:N	1.92	0.83
2:M:1102:LEU:N	3:N:5:VAL:HG13	1.94	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:323:GLU:O	3:N:333:LEU:HA	1.78	0.83
2:C:175:GLU:O	2:C:176:VAL:HG13	1.79	0.83
2:C:1100:GLN:HG3	2:C:1102:LEU:HD21	1.60	0.83
3:D:206:ARG:HB2	3:D:392:SER:O	1.78	0.83
3:D:706:PRO:HB2	3:D:708:LEU:HD21	1.58	0.83
3:N:295:GLY:HA2	3:N:302:GLN:HB3	1.59	0.83
3:N:543:LEU:O	3:N:546:ARG:HG3	1.77	0.83
1:B:9:PRO:HG3	1:B:27:PRO:O	1.79	0.83
2:C:881:ASN:HD22	2:C:881:ASN:N	1.73	0.83
2:M:1100:GLN:HG3	2:M:1102:LEU:HD21	1.60	0.83
3:N:119:SER:H	3:N:123:LEU:HG	1.43	0.83
3:N:882:PHE:HA	3:N:885:ILE:HD12	1.60	0.83
1:L:179:PHE:HB3	1:L:197:LEU:HD13	1.61	0.83
2:M:91:GLN:HB2	2:M:118:ILE:O	1.78	0.83
2:M:334:ARG:HA	2:M:338:GLU:OE1	1.77	0.83
3:N:1147:ARG:HB2	3:N:1166:LEU:HD12	1.60	0.83
1:B:185:ARG:HH22	3:D:692:GLU:HG3	1.41	0.83
3:D:820:GLU:HG2	3:D:825:ALA:O	1.79	0.83
2:M:631:SER:HB3	2:M:635:THR:H	1.42	0.83
3:N:167:GLU:O	3:N:394:LEU:HD12	1.77	0.83
3:D:209:ARG:O	3:D:346:ARG:HA	1.79	0.83
3:N:192:ALA:HB3	3:N:195:VAL:HG23	1.60	0.83
3:N:407:VAL:HG22	3:N:408:GLU:N	1.92	0.83
5:P:305:GLU:HG3	5:P:309:LYS:HE3	1.59	0.83
3:N:207:PHE:O	3:N:390:PRO:HA	1.78	0.83
5:P:329:TYR:CD1	5:P:333:ILE:HD11	2.14	0.83
2:C:266:ARG:HD2	2:C:273:GLY:H	1.43	0.82
3:D:259:VAL:HG11	3:D:293:VAL:HA	1.61	0.82
3:D:565:ILE:HG12	3:D:566:ILE:N	1.92	0.82
3:N:124:GLU:HG3	3:N:128:TYR:CE2	2.13	0.82
3:N:675:ARG:HH22	5:P:420:ASP:CB	1.92	0.82
2:C:197:LEU:HD11	2:C:221:LEU:HD11	1.61	0.82
3:D:408:GLU:HG3	3:D:421:LEU:C	2.00	0.82
5:F:171:LYS:O	5:F:174:LEU:HB3	1.80	0.82
3:N:1069:GLU:HA	3:N:1072:ILE:HD12	1.60	0.82
1:A:5:LYS:NZ	1:A:192:LEU:HD22	1.93	0.82
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.61	0.82
3:D:317:VAL:HG23	3:D:338:GLU:O	1.79	0.82
5:F:207:LEU:HB3	5:F:212:LEU:HD21	1.60	0.82
1:A:14:ARG:HD2	1:B:234:ALA:N	1.94	0.82
3:D:142:LEU:HB3	3:D:146:PRO:HA	1.58	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:575:GLN:O	3:D:578:VAL:HB	1.78	0.82
3:N:154:THR:HG22	3:N:157:GLU:CG	2.08	0.82
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.80	0.82
5:P:280:GLN:HG3	5:P:281:GLU:H	1.45	0.82
5:P:418:LEU:HD12	5:P:418:LEU:N	1.93	0.82
2:C:517:ARG:HB2	2:C:520:GLU:HB2	1.61	0.82
3:D:119:SER:H	3:D:123:LEU:HD12	1.44	0.82
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.61	0.82
3:D:1378:TYR:HB2	3:D:1422:MET:HE3	1.61	0.82
3:D:1388:ARG:NH2	3:D:1390:LEU:HD23	1.94	0.82
1:K:42:ARG:NH1	1:L:34:VAL:HB	1.95	0.82
1:L:91:ASN:HB3	1:L:94:LEU:HG	1.61	0.82
1:L:212:ASN:O	1:L:215:VAL:HG22	1.80	0.82
3:D:147:VAL:HG22	3:D:148:GLU:N	1.94	0.82
3:D:207:PHE:O	3:D:390:PRO:HA	1.79	0.82
3:D:353:VAL:CA	3:D:368:VAL:HG22	2.06	0.82
1:K:102:LYS:HG2	1:K:139:ASN:OD1	1.79	0.82
2:M:609:ASN:O	2:M:625:LEU:HB3	1.80	0.82
3:N:16:GLU:CD	3:N:16:GLU:H	1.83	0.82
2:C:1102:LEU:HD11	3:D:9:ARG:HD2	1.62	0.82
3:D:884:ARG:O	3:D:888:GLU:HG2	1.78	0.82
3:D:1094:LEU:HD23	3:D:1230:GLY:HA2	1.62	0.82
5:F:413:SER:HB3	5:F:414:ARG:HH21	1.43	0.82
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	1.80	0.82
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.15	0.82
2:C:477:GLY:HA2	2:C:508:ILE:HD12	1.61	0.82
3:D:295:GLY:HA2	3:D:302:GLN:CB	2.10	0.82
3:D:355:VAL:CG1	3:D:385:VAL:HG21	2.08	0.82
3:D:1238:MET:HE2	3:D:1239:ARG:HB3	1.59	0.82
3:N:60:CYS:HB2	3:N:62:LYS:HE2	1.61	0.82
3:N:658:LEU:HA	3:N:661:MET:HE3	1.61	0.82
2:C:227:PHE:HA	2:C:237:ARG:HH12	1.43	0.82
3:D:1397:LYS:HB2	3:D:1398:TRP:CZ3	2.15	0.82
5:F:278:LEU:CB	5:F:286:PRO:HG3	2.10	0.82
3:N:772:PRO:HG3	3:N:1210:SER:HB3	1.62	0.82
5:P:102:LEU:CD1	5:P:183:ALA:HB1	2.09	0.82
2:C:1085:PHE:O	2:C:1088:LEU:HB3	1.80	0.82
2:M:328:LEU:HD12	2:M:437:ARG:HD2	1.61	0.82
2:M:809:GLY:C	2:M:811:PRO:HD2	1.98	0.82
2:C:1012:PRO:HD3	2:C:1026:GLN:HG2	1.62	0.81
3:D:241:ILE:HA	3:D:312:ARG:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.61	0.81
2:M:51:THR:HG21	2:M:348:LEU:HG	1.59	0.81
2:M:194:VAL:HG22	2:M:221:LEU:HG	1.59	0.81
5:P:353:GLU:O	5:P:356:LYS:HB2	1.79	0.81
2:C:166:PRO:CG	2:C:169:GLY:HA3	2.10	0.81
2:C:841:ASN:ND2	2:C:845:ASN:HB3	1.95	0.81
3:D:806:PHE:CG	3:D:809:PRO:HB2	2.15	0.81
3:D:1213:ARG:HB2	3:D:1214:PRO:HD2	1.62	0.81
2:M:1037:VAL:O	2:M:1041:GLU:HG3	1.79	0.81
3:N:127:LEU:HD22	3:N:461:ILE:HD11	1.60	0.81
3:N:207:PHE:CZ	5:P:98:GLU:HG3	2.14	0.81
3:N:433:GLY:HA3	3:N:447:VAL:O	1.80	0.81
3:N:1472:ILE:CG2	3:N:1474:ALA:H	1.92	0.81
5:P:368:VAL:HG23	5:P:369:LEU:N	1.94	0.81
1:B:138:LEU:HD12	1:B:139:ASN:H	1.46	0.81
3:D:135:LEU:HD23	3:D:135:LEU:N	1.95	0.81
3:D:149:LYS:HE3	3:D:150:ARG:HE	1.43	0.81
3:D:264:LEU:HD22	3:D:316:GLN:NE2	1.96	0.81
5:F:371:LEU:HA	5:F:375:LEU:HG	1.62	0.81
1:K:100:LEU:HD23	1:K:101:LEU:H	1.44	0.81
2:M:322:VAL:HG12	2:M:323:ASP:H	1.45	0.81
3:N:141:ILE:HB	3:N:450:TYR:CD2	2.15	0.81
3:N:252:ARG:HE	3:N:300:LYS:HA	1.44	0.81
3:N:292:VAL:HG23	3:N:293:VAL:H	1.45	0.81
3:N:458:ALA:HB1	3:N:513:ILE:HD11	1.60	0.81
3:N:610:LYS:HZ1	3:N:1442:ASN:H	1.26	0.81
5:P:274:THR:O	5:P:278:LEU:HG	1.79	0.81
5:P:418:LEU:H	5:P:418:LEU:CD1	1.85	0.81
2:C:958:THR:HG23	2:C:961:GLU:HB3	1.63	0.81
3:N:402:PRO:HG3	3:N:443:VAL:HG22	1.61	0.81
3:N:494:LYS:HA	3:N:1388:ARG:HH12	1.45	0.81
3:N:820:GLU:HG2	3:N:825:ALA:O	1.81	0.81
2:C:542:VAL:HG23	2:C:543:ASN:N	1.94	0.81
3:D:225:LEU:HB3	3:D:226:PRO:CD	2.11	0.81
1:L:206:THR:HB	1:L:209:GLU:CG	2.09	0.81
2:M:230:ARG:HG2	2:M:233:GLU:HG3	1.62	0.81
2:M:397:GLU:N	2:M:633:GLN:HE21	1.78	0.81
5:P:370:LYS:HG3	5:P:371:LEU:N	1.94	0.81
5:P:402:ASN:HB3	5:P:406:ARG:CZ	2.10	0.81
2:C:115:LEU:HB2	2:C:375:SER:HB3	1.62	0.81
2:C:194:VAL:HA	2:C:197:LEU:HG	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:525:ARG:N	3:D:526:PRO:HD3	1.95	0.81
3:D:1495:ILE:HG13	4:E:84:ARG:NH1	1.95	0.81
2:M:164:PRO:HD3	2:M:266:ARG:NH2	1.94	0.81
3:N:119:SER:HB3	3:N:123:LEU:H	1.45	0.81
3:N:1152:GLU:N	3:N:1162:GLU:HB3	1.96	0.81
1:A:78:ILE:O	1:A:81:ASN:HB2	1.81	0.81
2:C:69:LEU:HD23	2:C:70:GLU:HG3	1.62	0.81
3:D:30:GLU:CB	3:D:40:GLU:HG2	2.09	0.81
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.61	0.81
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.10	0.81
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.61	0.81
2:C:101:ILE:HG22	2:C:102:HIS:N	1.95	0.81
2:C:149:THR:HG23	2:C:159:ILE:HG13	1.63	0.81
2:C:876:VAL:H	2:C:877:PRO:HD2	1.45	0.81
3:D:1311:LEU:HD12	3:D:1312:LEU:H	1.46	0.81
3:N:133:ILE:HG23	3:N:456:MET:CE	2.11	0.81
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.21	0.81
3:N:1130:ARG:HH22	3:N:1323:GLN:HE22	1.27	0.81
5:P:282:LEU:HG	5:P:284:ARG:HG2	1.63	0.81
5:P:417:LYS:HB2	5:P:418:LEU:HD12	1.62	0.81
3:D:411:THR:HA	3:D:435:VAL:HG12	1.62	0.81
2:M:198:ARG:HH21	2:M:231:PRO:HD3	1.46	0.81
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.62	0.81
3:N:483:HIS:HB2	3:N:484:PRO:HD2	1.61	0.81
2:C:226:VAL:HG23	2:C:227:PHE:HD1	1.46	0.81
3:D:387:LEU:HD12	3:D:387:LEU:N	1.96	0.81
3:D:988:ARG:HG2	3:D:992:ILE:HD11	1.62	0.81
3:D:1151:ARG:C	3:D:1162:GLU:HB3	2.01	0.81
3:N:796:ARG:HE	3:N:861:GLN:HB2	1.45	0.81
3:N:1267:ARG:HH21	3:N:1271:LYS:NZ	1.78	0.81
2:C:21:ILE:H	2:C:21:ILE:CD1	1.93	0.80
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.10	0.80
2:C:810:ASP:N	2:C:811:PRO:HD2	1.96	0.80
3:D:562:ALA:HB3	3:D:567:ILE:HD11	1.63	0.80
5:P:152:ASP:O	5:P:156:VAL:HG21	1.82	0.80
5:P:288:TYR:O	5:P:291:ILE:HG23	1.81	0.80
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.63	0.80
2:C:626:ARG:HG3	2:C:629:TYR:CD1	2.17	0.80
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.62	0.80
3:N:433:GLY:HA2	3:N:449:SER:N	1.97	0.80
3:N:458:ALA:CB	3:N:513:ILE:HD11	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:217:ASN:O	5:P:220:LEU:HB3	1.81	0.80
2:C:346:VAL:HG23	2:C:347:GLY:H	1.46	0.80
2:C:632:ASN:HB3	2:C:633:GLN:NE2	1.96	0.80
2:C:666:LEU:HD11	2:C:668:LEU:HG	1.63	0.80
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.61	0.80
1:K:12:THR:HG22	1:L:229:GLN:HG2	1.63	0.80
2:M:23:VAL:HG23	2:M:24:GLU:H	1.46	0.80
2:C:162:ILE:HD12	2:C:172:ILE:HD12	1.64	0.80
2:C:492:ASP:HB3	2:C:518:LYS:HE3	1.62	0.80
3:D:113:GLY:C	3:D:115:LEU:H	1.83	0.80
2:M:631:SER:HB3	2:M:635:THR:N	1.95	0.80
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.62	0.80
2:C:801:VAL:HG22	2:C:826:TYR:O	1.81	0.80
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.80	0.80
3:D:1031:ASN:H	3:D:1034:GLN:HE21	1.29	0.80
5:F:378:GLY:HA3	5:F:381:HIS:CE1	2.15	0.80
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.62	0.80
2:M:904:PRO:HB2	2:M:907:ASP:HB3	1.63	0.80
3:N:25:GLU:OE1	3:N:27:GLU:HG2	1.81	0.80
3:N:1048:PRO:HG3	3:N:1075:HIS:HD2	1.45	0.80
3:N:1490:LYS:HD2	4:O:39:VAL:HG13	1.63	0.80
3:D:149:LYS:HG3	3:D:150:ARG:HG2	1.63	0.80
3:D:272:LEU:HD12	3:D:282:TYR:HE1	1.47	0.80
3:D:582:LEU:O	3:D:603:LEU:HB2	1.82	0.80
1:K:86:VAL:HG12	1:K:124:ASN:HD21	1.46	0.80
2:M:772:ARG:NE	5:P:373:LYS:HG3	1.95	0.80
3:N:174:GLY:HA2	3:N:389:GLU:HG2	1.63	0.80
3:N:408:GLU:HB3	3:N:422:ALA:CB	2.10	0.80
3:N:847:ASP:O	3:N:851:LEU:HG	1.82	0.80
4:O:7:ASP:HA	4:O:10:PHE:HD1	1.47	0.80
3:D:244:GLU:HA	3:D:309:GLY:O	1.82	0.80
3:D:245:LEU:N	3:D:309:GLY:HA2	1.95	0.80
5:P:111:GLU:HG3	5:P:114:LYS:HZ2	1.46	0.80
2:C:303:PHE:H	2:C:303:PHE:HD1	1.26	0.80
5:F:278:LEU:HB2	5:F:286:PRO:HG3	1.64	0.80
2:M:108:ILE:CB	2:M:368:THR:HG21	2.11	0.80
2:M:415:PRO:HB2	2:M:418:LEU:HB2	1.64	0.80
3:N:238:PRO:HB3	3:N:317:VAL:O	1.81	0.80
3:N:1381:VAL:HG13	3:N:1389:LEU:O	1.81	0.80
2:C:341:THR:O	2:C:344:PHE:HB3	1.82	0.80
3:D:128:TYR:HA	3:D:457:GLY:HA2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:OE1	3:D:1423:GLY:HA3	1.81	0.80
5:F:81:VAL:HG23	5:F:82:ARG:N	1.96	0.80
3:N:141:ILE:HD12	3:N:450:TYR:HB3	1.63	0.80
3:N:153:LEU:HD11	3:N:157:GLU:HB3	1.64	0.80
3:N:261:LEU:HA	3:N:269:PHE:O	1.81	0.80
3:N:268:ALA:HB3	3:N:290:PRO:HG3	1.63	0.80
3:N:325:GLU:HG2	3:N:332:TYR:HB3	1.62	0.80
2:C:101:ILE:HG23	2:C:107:LEU:HD23	1.63	0.80
2:C:274:ARG:HH21	2:C:284:ARG:HB3	1.47	0.80
3:N:445:ARG:H	3:N:445:ARG:HD2	1.47	0.80
3:N:1486:VAL:HG22	4:O:75:PHE:CB	2.12	0.80
1:B:97:VAL:HG12	1:B:98:THR:H	1.47	0.79
1:B:237:GLU:OE2	1:B:239:ALA:HB2	1.82	0.79
2:C:101:ILE:HG22	2:C:102:HIS:H	1.46	0.79
3:D:33:ASN:HD21	3:D:35:ARG:CG	1.85	0.79
3:D:1083:ASP:HB2	3:D:1239:ARG:NH2	1.96	0.79
1:K:45:LEU:HD21	1:K:177:VAL:HB	1.62	0.79
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.61	0.79
3:N:1494:ALA:HA	3:N:1497:GLU:CG	2.07	0.79
5:P:253:ASP:HA	5:P:259:ARG:NH1	1.97	0.79
5:F:372:ARG:HG3	5:F:378:GLY:O	1.82	0.79
1:L:28:LEU:HB3	1:L:193:ASP:HB2	1.61	0.79
2:M:23:VAL:HA	2:M:121:MET:HE1	1.64	0.79
2:M:98:LEU:HD11	2:M:113:VAL:HG21	1.64	0.79
2:M:654:LEU:HD12	2:M:655:LEU:H	1.45	0.79
3:N:400:VAL:HG23	3:N:443:VAL:HG13	1.62	0.79
5:P:94:LEU:HG	5:P:190:ALA:HB1	1.64	0.79
5:P:219:GLY:HA3	5:P:246:ALA:HB2	1.64	0.79
2:C:230:ARG:HG2	2:C:233:GLU:CG	2.10	0.79
5:F:270:LYS:HE3	5:F:295:MET:SD	2.22	0.79
1:K:35:THR:O	1:K:39:PRO:HG2	1.83	0.79
3:N:1170:ASP:O	3:N:1173:LEU:HB3	1.83	0.79
2:C:290:LEU:CD2	2:C:302:VAL:HG21	2.12	0.79
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.16	0.79
3:D:230:TRP:NE1	3:D:233:LYS:HG3	1.98	0.79
3:N:837:GLY:HA2	3:N:841:TYR:HD1	1.45	0.79
2:C:197:LEU:HB3	2:C:207:LEU:HD13	1.64	0.79
2:C:382:ILE:O	2:C:385:PHE:HB3	1.81	0.79
3:D:207:PHE:HB2	3:D:391:ALA:HB3	1.64	0.79
2:M:72:ARG:O	2:M:94:LEU:HD12	1.81	0.79
3:N:158:TYR:CE1	3:N:454:ALA:HB3	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:100:LEU:HD23	2:C:368:THR:CA	2.01	0.79
2:C:571:LEU:HD22	2:C:701:THR:H	1.47	0.79
3:D:154:THR:HG22	3:D:157:GLU:CG	2.12	0.79
3:D:1394:VAL:HB	3:D:1397:LYS:HE2	1.65	0.79
2:M:292:ARG:HG2	2:M:297:GLU:O	1.83	0.79
3:N:441:ARG:HG3	3:N:443:VAL:CG2	2.13	0.79
3:N:806:PHE:HA	3:N:809:PRO:CD	2.11	0.79
3:D:412:GLY:H	3:D:435:VAL:HB	1.47	0.79
3:D:1405:GLU:OE2	3:D:1407:LEU:HG	1.83	0.79
3:D:1472:ILE:HD13	3:D:1473:PRO:HD2	1.65	0.79
2:M:543:ASN:HA	2:M:546:LEU:HD12	1.64	0.79
1:L:112:ARG:NH1	1:L:125:PRO:HB2	1.98	0.79
2:M:72:ARG:CG	2:M:95:TYR:HB2	2.12	0.79
2:M:165:LEU:O	2:M:165:LEU:HD23	1.83	0.79
2:M:479:VAL:H	2:M:506:ASN:HB3	1.47	0.79
3:N:147:VAL:CG2	3:N:148:GLU:H	1.94	0.79
3:N:675:ARG:NH2	5:P:420:ASP:HB3	1.95	0.79
3:N:693:GLU:HA	4:O:48:MET:HE3	1.64	0.79
5:P:333:ILE:N	5:P:333:ILE:HD12	1.97	0.79
1:A:15:THR:HB	1:A:21:GLY:HA3	1.65	0.79
2:C:414:GLY:H	2:C:419:THR:HG21	1.47	0.79
3:D:14:SER:HB2	3:D:17:LYS:H	1.48	0.79
3:D:535:PHE:O	5:F:314:PRO:HB2	1.83	0.79
5:F:396:ARG:HA	5:F:399:GLN:HE21	1.46	0.79
3:N:387:LEU:H	3:N:387:LEU:HD12	1.48	0.79
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.65	0.79
3:D:799:LYS:HB3	3:D:800:LYS:CE	2.13	0.79
3:D:1232:PRO:O	3:D:1235:GLN:HG2	1.82	0.79
1:L:219:ARG:HG2	1:L:219:ARG:HH11	1.48	0.79
2:M:197:LEU:HB3	2:M:207:LEU:CD1	2.11	0.79
3:N:227:LEU:HD11	3:N:327:GLU:H	1.47	0.79
3:D:1183:ILE:HG13	3:D:1184:GLN:N	1.97	0.78
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.82	0.78
1:K:206:THR:HB	1:K:209:GLU:CG	2.12	0.78
2:M:715:THR:HG22	2:M:717:LEU:H	1.48	0.78
2:M:737:LEU:HA	2:M:743:VAL:HA	1.64	0.78
2:C:47:ALA:HA	2:C:50:GLU:OE2	1.83	0.78
2:C:720:GLU:HB3	2:C:760:SER:HB3	1.63	0.78
3:D:82:LYS:HB2	3:D:84:ILE:HG22	1.65	0.78
3:D:658:LEU:HD23	3:D:661:MET:HE1	1.66	0.78
3:D:1307:LYS:H	3:D:1307:LYS:CE	1.95	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:676:MET:HG3	3:N:677:LEU:HD23	1.65	0.78
2:C:1:MET:HB2	2:C:899:GLN:HA	1.65	0.78
2:C:949:LYS:HZ2	3:D:796:ARG:HH12	1.32	0.78
2:M:512:ARG:HD2	2:M:523:ILE:HG12	1.65	0.78
3:D:98:PRO:HA	3:D:514:LEU:O	1.83	0.78
3:D:162:ARG:NH1	3:D:434:ARG:HH22	1.82	0.78
1:L:58:ILE:HG12	1:L:140:MET:HB3	1.65	0.78
3:N:288:MET:CE	3:N:307:ALA:HB2	2.13	0.78
3:N:416:ALA:CB	3:N:432:TYR:HA	2.08	0.78
3:N:711:LEU:HB3	3:N:735:ALA:HB1	1.65	0.78
3:N:841:TYR:HB2	3:N:864:VAL:HG13	1.64	0.78
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.65	0.78
5:P:173:TYR:HA	5:P:176:ILE:HD12	1.63	0.78
3:D:537:THR:O	5:F:317:LEU:HG	1.82	0.78
3:D:843:PHE:CE2	3:D:864:VAL:HG11	2.16	0.78
2:M:290:LEU:HD22	2:M:302:VAL:HG21	1.64	0.78
2:M:773:LEU:HG	2:M:774:LEU:N	1.99	0.78
3:N:433:GLY:CA	3:N:449:SER:H	1.96	0.78
3:D:252:ARG:CZ	3:D:300:LYS:HG2	2.14	0.78
5:F:234:LYS:HE2	5:F:236:SER:HB3	1.64	0.78
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.63	0.78
2:M:265:ARG:HB2	2:M:267:TYR:O	1.84	0.78
2:M:834:GLN:HG3	2:M:837:ASP:OD2	1.84	0.78
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.64	0.78
1:B:13:VAL:HG22	1:B:14:ARG:H	1.49	0.78
2:C:689:VAL:HG22	2:C:870:ILE:HB	1.66	0.78
3:D:542:ASP:O	3:D:546:ARG:HG2	1.83	0.78
3:D:799:LYS:HB3	3:D:800:LYS:HE3	1.66	0.78
5:F:90:GLN:O	5:F:92:PRO:HD3	1.83	0.78
2:M:208:ALA:HB2	2:M:221:LEU:HD22	1.63	0.78
2:M:600:ASP:CB	2:M:650:ARG:HA	2.14	0.78
2:M:755:LEU:HD21	2:M:792:VAL:HG22	1.66	0.78
3:N:610:LYS:NZ	3:N:1442:ASN:H	1.80	0.78
2:C:367:LEU:HG	2:C:372:LEU:HD21	1.64	0.78
2:C:649:VAL:HA	2:C:650:ARG:HH21	1.49	0.78
2:M:1071:ILE:O	3:N:659:LYS:HD3	1.83	0.78
3:N:135:LEU:O	3:N:150:ARG:HA	1.84	0.78
3:N:230:TRP:HE1	3:N:233:LYS:HG3	1.49	0.78
5:P:209:PHE:CD2	5:P:213:ILE:HD11	2.18	0.78
2:C:15:LEU:HD12	2:C:15:LEU:N	1.99	0.78
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:49:GLN:HA	4:E:53:GLY:O	1.83	0.78
3:N:238:PRO:HG3	3:N:318:ARG:HG2	1.66	0.78
3:N:526:PRO:O	3:N:537:THR:HG22	1.84	0.78
3:N:858:VAL:HG12	3:N:859:ASP:N	1.99	0.78
5:P:264:MET:HE2	5:P:264:MET:HA	1.65	0.78
5:P:353:GLU:HA	5:P:356:LYS:HD2	1.66	0.78
1:L:111:ALA:HB3	1:L:125:PRO:HA	1.65	0.78
1:L:241:GLU:N	1:L:242:PRO:HD2	1.99	0.78
2:M:1031:ARG:HB2	3:N:622:ARG:HH12	1.48	0.78
3:N:85:VAL:HG21	3:N:89:ARG:CZ	2.14	0.78
3:N:782:SER:H	3:N:785:ILE:HD12	1.48	0.78
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	1.97	0.78
3:D:225:LEU:HD11	3:D:242:LEU:HD11	1.64	0.77
3:D:225:LEU:HD12	3:D:333:LEU:HD11	1.65	0.77
3:D:417:PRO:HA	3:D:429:SER:O	1.83	0.77
3:D:808:THR:H	3:D:809:PRO:HD2	1.50	0.77
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.66	0.77
2:C:600:ASP:HB3	2:C:650:ARG:HA	1.66	0.77
2:C:606:VAL:HG12	2:C:611:ILE:HG23	1.66	0.77
3:D:421:LEU:HD23	3:D:427:VAL:CG1	2.14	0.77
4:E:76:GLY:HA3	4:E:79:LEU:HD21	1.65	0.77
2:M:21:ILE:H	2:M:21:ILE:CD1	1.96	0.77
2:C:91:GLN:HA	2:C:120:LEU:HG	1.65	0.77
2:C:575:GLN:N	2:C:667:ALA:HB1	1.99	0.77
3:D:36:THR:HB	3:D:38:LYS:HG2	1.65	0.77
3:D:258:VAL:HB	3:D:273:ARG:CB	2.07	0.77
3:D:827:ILE:HA	3:D:836:VAL:HB	1.64	0.77
3:D:989:TYR:HA	3:D:992:ILE:HD12	1.66	0.77
3:D:1380:GLU:HG2	3:D:1381:VAL:H	1.48	0.77
1:L:78:ILE:HG22	1:L:82:LEU:HD21	1.66	0.77
2:M:773:LEU:HD23	5:P:354:LEU:HD22	1.67	0.77
2:M:837:ASP:O	2:M:849:VAL:HG23	1.83	0.77
3:N:352:ASN:C	3:N:368:VAL:HG13	2.05	0.77
3:N:1286:THR:HG22	3:N:1288:GLU:N	1.95	0.77
3:N:1496:GLU:HA	3:N:1499:ARG:HB3	1.67	0.77
1:B:13:VAL:HG22	1:B:14:ARG:N	1.99	0.77
2:C:21:ILE:HD12	2:C:21:ILE:N	1.98	0.77
2:C:266:ARG:HB2	2:C:272:ALA:HB3	1.65	0.77
2:C:413:LEU:HA	2:C:419:THR:HG21	1.65	0.77
3:D:804:LEU:O	3:D:805:GLU:HG2	1.83	0.77
3:D:945:SER:OG	3:D:947:ILE:HG22	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1102:LEU:H	3:N:5:VAL:HG13	1.48	0.77
3:N:387:LEU:HD12	3:N:387:LEU:N	2.00	0.77
3:N:407:VAL:CG2	3:N:408:GLU:H	1.96	0.77
5:P:156:VAL:HG23	5:P:157:GLU:OE1	1.84	0.77
1:A:211:LEU:O	1:A:215:VAL:HG23	1.85	0.77
2:C:141:HIS:CE1	2:C:332:ARG:HB3	2.19	0.77
2:C:605:LYS:HB3	2:C:610:ARG:HH21	1.48	0.77
3:D:853:VAL:HG13	3:D:858:VAL:O	1.85	0.77
5:F:350:LEU:HG	5:F:354:LEU:HD11	1.66	0.77
5:F:368:VAL:HG23	5:F:369:LEU:N	2.00	0.77
2:M:516:ARG:HA	2:M:520:GLU:O	1.84	0.77
3:N:241:ILE:HA	3:N:312:ARG:HA	1.64	0.77
3:N:800:LYS:HD2	3:N:801:GLY:N	1.99	0.77
3:N:1048:PRO:HG3	3:N:1075:HIS:CD2	2.20	0.77
4:O:40:LEU:HD13	4:O:72:ARG:HH12	1.49	0.77
2:C:759:THR:HB	2:C:785:VAL:CG1	2.13	0.77
3:D:841:TYR:HB2	3:D:864:VAL:HG13	1.65	0.77
4:E:61:GLU:H	4:E:61:GLU:CD	1.87	0.77
1:K:14:ARG:HD2	1:L:233:VAL:HA	1.64	0.77
2:M:397:GLU:H	2:M:633:GLN:NE2	1.80	0.77
3:N:433:GLY:HA2	3:N:449:SER:H	1.48	0.77
3:N:476:GLU:O	3:N:479:GLU:HB2	1.84	0.77
5:P:367:MET:HB2	5:P:371:LEU:CG	2.15	0.77
1:B:153:ALA:HA	1:B:156:HIS:CE1	2.19	0.77
3:D:1048:PRO:HG3	3:D:1075:HIS:HD2	1.48	0.77
1:L:181:VAL:HG22	1:L:195:LEU:HD13	1.67	0.77
3:N:921:ARG:NH1	3:N:921:ARG:HB3	1.99	0.77
1:A:154:GLU:H	1:A:154:GLU:CD	1.88	0.77
1:B:104:GLU:HA	1:B:132:LEU:HD13	1.66	0.77
3:D:1380:GLU:HG2	3:D:1381:VAL:N	1.99	0.77
2:M:325:ILE:HD12	2:M:325:ILE:N	1.98	0.77
2:M:625:LEU:HD11	2:M:639:GLN:HB2	1.66	0.77
3:N:297:ILE:HG12	3:N:298:VAL:HG23	1.67	0.77
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.65	0.77
2:M:74:GLY:O	2:M:76:PRO:HD3	1.84	0.77
3:N:815:ALA:HA	3:N:818:ARG:HD2	1.67	0.77
5:P:102:LEU:HD12	5:P:183:ALA:HB1	1.67	0.77
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.00	0.77
2:C:413:LEU:HA	2:C:419:THR:CG2	2.13	0.77
3:D:1286:THR:HG22	3:D:1288:GLU:H	1.49	0.77
1:K:86:VAL:HG13	1:K:123:MET:HB2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:355:VAL:HA	2:M:358:ARG:HG3	1.67	0.77
2:M:580:MET:HB3	2:M:584:GLU:OE2	1.84	0.77
2:M:1051:GLU:HG3	2:M:1052:MET:N	1.99	0.77
3:N:490:ALA:HA	3:N:493:ARG:NE	2.00	0.77
3:N:548:ILE:HG22	3:N:552:ASN:ND2	1.96	0.77
3:N:734:GLU:OE1	3:N:734:GLU:HA	1.85	0.77
3:N:1472:ILE:HG23	3:N:1474:ALA:H	1.50	0.77
5:P:333:ILE:HD12	5:P:333:ILE:H	1.48	0.77
2:C:1051:GLU:HG3	2:C:1052:MET:N	1.98	0.76
3:D:440:VAL:HG23	3:D:441:ARG:N	1.99	0.76
3:N:761:ILE:HG22	3:N:762:GLN:N	1.98	0.76
1:B:58:ILE:CG2	1:B:61:VAL:HB	2.15	0.76
1:B:152:PRO:HG2	1:B:155:LYS:CB	2.16	0.76
3:D:793:THR:HG21	3:D:906:GLN:HG2	1.68	0.76
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.19	0.76
2:M:93:PRO:CA	2:M:117:HIS:HB3	2.15	0.76
2:M:193:LEU:HG	2:M:197:LEU:HD21	1.67	0.76
2:M:194:VAL:CA	2:M:197:LEU:HG	2.13	0.76
2:M:780:GLU:HG2	5:P:379:ARG:NH2	2.00	0.76
3:N:119:SER:HB3	3:N:123:LEU:HG	1.67	0.76
3:N:612:GLY:O	3:N:615:ARG:HG2	1.85	0.76
3:N:646:LYS:HG2	3:N:720:LEU:HB3	1.66	0.76
3:N:1041:LEU:CD1	3:N:1058:ARG:HA	2.15	0.76
3:N:1380:GLU:HG2	3:N:1381:VAL:H	1.48	0.76
4:O:7:ASP:HA	4:O:10:PHE:CD1	2.20	0.76
2:C:100:LEU:HD21	2:C:367:LEU:HD23	1.67	0.76
2:C:184:MET:HG3	2:C:193:LEU:HD13	1.66	0.76
2:C:264:PRO:HB2	2:C:289:THR:HG21	1.66	0.76
3:D:140:ALA:N	3:D:450:TYR:CE2	2.52	0.76
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.65	0.76
2:M:37:GLU:HG2	2:M:71:TYR:CE2	2.20	0.76
3:N:160:GLU:CD	3:N:165:LYS:HE2	2.06	0.76
3:N:367:ILE:HB	3:N:377:VAL:CG1	2.14	0.76
3:N:1253:THR:HG22	3:N:1254:GLN:H	1.46	0.76
1:A:152:PRO:HG2	1:A:155:LYS:HB2	1.67	0.76
1:B:206:THR:HB	1:B:209:GLU:CG	2.13	0.76
2:C:309:TYR:CE2	2:C:321:GLU:HG3	2.20	0.76
2:C:631:SER:HB3	2:C:635:THR:N	2.00	0.76
3:D:253:ALA:N	3:D:301:GLY:HA3	2.00	0.76
3:D:1213:ARG:HG2	3:D:1213:ARG:HH11	1.50	0.76
5:F:156:VAL:HG23	5:F:157:GLU:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:353:GLU:O	5:F:356:LYS:HB2	1.84	0.76
2:M:101:ILE:HG22	2:M:102:HIS:N	2.01	0.76
3:N:119:SER:H	3:N:123:LEU:HB2	1.50	0.76
3:N:253:ALA:N	3:N:301:GLY:HA3	1.99	0.76
3:N:421:LEU:HG	3:N:428:LYS:CA	2.10	0.76
3:N:671:LYS:HA	3:N:674:ARG:HB2	1.64	0.76
1:B:32:PHE:HA	1:B:35:THR:CB	2.14	0.76
2:C:468:ARG:HA	2:C:486:MET:O	1.85	0.76
2:C:988:VAL:HG12	3:D:948:THR:CB	2.14	0.76
3:D:1345:GLU:O	3:D:1349:VAL:HG23	1.85	0.76
4:E:46:PRO:HB2	4:E:57:ASP:HB3	1.66	0.76
2:M:1100:GLN:O	3:N:8:VAL:HA	1.85	0.76
3:N:219:GLU:O	3:N:337:LEU:HG	1.84	0.76
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.66	0.76
3:D:1114:THR:HB	3:D:1195:GLN:HG3	1.68	0.76
5:F:276:ARG:O	5:F:280:GLN:HG2	1.85	0.76
5:F:353:GLU:HG3	5:F:356:LYS:HD2	1.67	0.76
2:M:385:PHE:CD1	2:M:389:SER:HB2	2.21	0.76
2:M:428:ARG:NE	2:M:451:LEU:HD21	2.01	0.76
2:C:17:PRO:HB2	2:C:20:GLU:HB2	1.68	0.76
2:C:167:LYS:HE2	2:C:168:ARG:HE	1.50	0.76
3:D:119:SER:HB3	3:D:123:LEU:HG	1.66	0.76
3:D:361:VAL:CG1	3:D:379:ALA:HB1	2.16	0.76
3:D:1099:VAL:HG12	10:D:1529:NE6:C14	2.16	0.76
3:D:1216:SER:HB2	4:E:15:SER:HA	1.68	0.76
5:F:380:GLU:HA	5:F:385:GLU:OE1	1.84	0.76
3:N:165:LYS:O	3:N:396:VAL:HA	1.84	0.76
3:N:285:PRO:HB3	3:N:313:MET:SD	2.25	0.76
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.67	0.76
2:C:958:THR:HG23	2:C:961:GLU:CB	2.15	0.76
2:C:1064:ASN:HA	5:F:341:PRO:CB	2.15	0.76
3:D:322:VAL:HA	3:D:335:LEU:HG	1.66	0.76
3:D:801:GLY:HA2	3:D:830:ALA:O	1.86	0.76
4:E:6:ILE:HG13	4:E:10:PHE:CE1	2.20	0.76
5:F:261:PRO:HD2	5:F:264:MET:HG3	1.66	0.76
5:F:302:LYS:HD2	5:F:303:ARG:N	2.00	0.76
1:L:18:ARG:HH12	1:L:88:ARG:HH22	1.30	0.76
1:L:150:TYR:OH	1:L:168:ASP:HB3	1.85	0.76
1:L:176:ARG:HG2	1:L:177:VAL:N	2.01	0.76
3:N:553:ARG:NH1	5:P:214:GLN:HB2	2.00	0.76
2:C:84:ARG:HA	2:C:131:GLY:HA2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:226:VAL:HG23	2:C:227:PHE:CD1	2.20	0.76
2:C:285:LEU:HG	2:C:286:SER:N	2.00	0.76
3:D:65:ARG:CG	3:D:67:ARG:HG2	2.16	0.76
3:D:875:THR:HG22	3:D:876:SER:H	1.51	0.76
3:D:931:LEU:CA	3:D:934:LEU:HD12	2.13	0.76
3:D:960:LYS:HE3	3:D:964:LEU:HD11	1.67	0.76
3:D:1211:MET:HB2	3:D:1213:ARG:HH11	1.51	0.76
3:D:1398:TRP:N	3:D:1398:TRP:HE3	1.84	0.76
3:D:1480:PHE:CD2	3:D:1481:VAL:HG23	2.20	0.76
3:N:409:VAL:HG12	3:N:413:ASP:OD2	1.84	0.76
3:N:1119:SER:HA	3:N:1186:VAL:O	1.86	0.76
5:P:242:TRP:HA	5:P:245:GLN:HG2	1.66	0.76
1:A:228:PRO:O	1:A:229:GLN:HG3	1.85	0.76
1:B:104:GLU:HB3	1:B:137:ARG:CG	2.13	0.76
1:B:112:ARG:HH12	1:B:125:PRO:HB2	1.49	0.76
2:C:1067:TYR:CE2	5:F:342:VAL:HA	2.21	0.76
3:D:191:LEU:HD23	3:D:195:VAL:HG11	1.67	0.76
3:D:992:ILE:O	3:D:995:LEU:HB3	1.85	0.76
5:F:113:ILE:HD13	5:F:128:ARG:HB3	1.66	0.76
3:N:406:ASP:HB2	3:N:423:ASP:HA	1.67	0.76
3:N:566:ILE:HG22	5:P:84:TYR:OH	1.85	0.76
3:N:1105:ILE:HD11	3:N:1374:GLN:CD	2.05	0.76
3:N:1161:GLU:HG3	3:N:1164:ARG:HB2	1.68	0.76
4:O:46:PRO:CB	4:O:57:ASP:HB3	2.15	0.76
2:C:195:LEU:HD23	2:C:195:LEU:N	1.97	0.75
2:C:599:GLU:HB3	2:C:615:TYR:CD2	2.21	0.75
3:D:192:ALA:HB3	3:D:195:VAL:HG23	1.68	0.75
2:M:431:HIS:CE1	2:M:432:ARG:HG2	2.21	0.75
2:M:807:ARG:NH1	2:M:807:ARG:HB3	2.01	0.75
3:N:57:GLU:HG3	3:N:64:LYS:HG2	1.68	0.75
3:N:329:GLU:HG2	3:N:330:THR:HG23	1.68	0.75
3:N:530:VAL:HG23	3:N:531:ASP:H	1.49	0.75
3:N:793:THR:O	3:N:905:PRO:HA	1.87	0.75
2:C:396:ASP:O	2:C:403:SER:HA	1.86	0.75
2:C:607:ASP:HB3	2:C:610:ARG:HH12	1.51	0.75
3:D:206:ARG:NH2	3:D:394:LEU:HD13	2.01	0.75
3:D:438:ASP:HB3	3:D:443:VAL:O	1.85	0.75
4:E:46:PRO:CB	4:E:57:ASP:HB3	2.15	0.75
2:M:443:THR:OG1	2:M:444:PRO:HD2	1.86	0.75
2:M:691:SER:HB2	2:M:858:MET:SD	2.26	0.75
3:N:318:ARG:HB2	3:N:338:GLU:OE2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:400:VAL:HG23	3:N:443:VAL:CG1	2.16	0.75
3:N:711:LEU:HD22	3:N:778:LEU:HD23	1.68	0.75
3:N:1208:ASP:O	3:N:1209:LEU:HB2	1.87	0.75
4:O:40:LEU:HD12	4:O:41:GLU:N	2.00	0.75
1:B:5:LYS:C	1:B:7:LYS:H	1.89	0.75
3:D:567:ILE:HG22	3:D:571:LYS:HE3	1.68	0.75
3:D:675:ARG:O	3:D:678:GLU:HG2	1.85	0.75
1:K:1:MET:H1	1:K:6:LEU:HD13	1.49	0.75
3:N:122:GLU:O	3:N:126:VAL:HB	1.87	0.75
3:N:244:GLU:HG2	3:N:245:LEU:H	1.50	0.75
3:N:1117:TYR:C	3:N:1193:THR:HG21	2.07	0.75
5:P:416:ARG:NH1	5:P:419:ARG:HD3	2.00	0.75
1:B:76:VAL:HA	1:B:79:ILE:CD1	2.15	0.75
2:C:189:ARG:NH2	2:C:242:LEU:HA	2.02	0.75
2:C:762:LYS:HG2	2:C:763:GLY:N	1.99	0.75
3:D:808:THR:H	3:D:809:PRO:CD	2.00	0.75
3:D:1404:ASN:HA	3:D:1408:ILE:HB	1.67	0.75
1:K:186:LEU:C	1:K:188:GLN:H	1.90	0.75
3:N:323:GLU:HB2	3:N:334:THR:HB	1.68	0.75
3:N:417:PRO:HA	3:N:429:SER:O	1.85	0.75
3:N:819:GLY:HA2	3:N:824:ASN:HD22	1.50	0.75
1:A:132:LEU:HD13	1:A:136:GLY:O	1.86	0.75
2:C:185:LYS:HA	2:C:190:LYS:HB3	1.68	0.75
2:C:266:ARG:HH11	2:C:266:ARG:HG3	1.52	0.75
2:C:349:ALA:O	2:C:353:ARG:HG3	1.85	0.75
2:C:1014:SER:HA	2:C:1021:LEU:HD22	1.68	0.75
3:D:610:LYS:HZ1	3:D:1442:ASN:H	1.33	0.75
5:F:349:LEU:HA	5:F:352:GLU:OE2	1.86	0.75
2:M:873:PRO:O	2:M:876:VAL:HG23	1.85	0.75
3:N:769:LEU:N	3:N:769:LEU:HD12	2.01	0.75
3:N:1476:THR:HB	4:O:21:VAL:HG23	1.69	0.75
2:C:57:GLU:HG3	2:C:62:GLY:O	1.86	0.75
2:C:358:ARG:HD2	2:C:372:LEU:HA	1.68	0.75
3:D:1119:SER:HA	3:D:1186:VAL:O	1.87	0.75
2:M:401:LEU:HD11	2:M:543:ASN:HB3	1.67	0.75
2:M:834:GLN:N	2:M:837:ASP:OD2	2.20	0.75
3:N:676:MET:HG3	3:N:677:LEU:CD2	2.17	0.75
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.68	0.75
2:C:93:PRO:N	2:C:117:HIS:HB3	2.01	0.75
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.17	0.75
3:D:1281:VAL:HG23	3:D:1317:ASP:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:122:THR:HB	2:M:124:ASP:OD1	1.86	0.75
2:M:300:ASP:O	2:M:304:LEU:HD13	1.86	0.75
2:M:425:PHE:HE2	3:N:1239:ARG:HH21	1.34	0.75
3:N:1335:LEU:CD2	3:N:1344:VAL:HA	2.16	0.75
4:O:76:GLY:HA3	4:O:79:LEU:HD21	1.68	0.75
2:C:15:LEU:H	2:C:15:LEU:CD1	1.95	0.75
2:C:91:GLN:HB2	2:C:118:ILE:O	1.87	0.75
2:C:325:ILE:HD12	2:C:325:ILE:N	2.01	0.75
3:D:358:GLY:HA2	3:D:385:VAL:HB	1.67	0.75
1:K:195:LEU:HD12	1:K:196:THR:H	1.50	0.75
1:L:208:LEU:HG	1:L:209:GLU:N	1.99	0.75
2:M:101:ILE:HG22	2:M:102:HIS:H	1.52	0.75
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.69	0.75
2:M:939:ARG:HD2	2:M:982:PRO:HD3	1.69	0.75
3:N:284:LEU:HD13	3:N:288:MET:HG3	1.67	0.75
3:N:365:ASP:O	3:N:379:ALA:HB2	1.87	0.75
3:N:808:THR:H	3:N:809:PRO:HD2	1.50	0.75
3:N:1335:LEU:HD23	3:N:1344:VAL:HA	1.68	0.75
2:C:431:HIS:CE1	2:C:432:ARG:HG2	2.22	0.75
3:D:1001:GLU:HA	3:D:1001:GLU:OE2	1.87	0.75
3:D:1496:GLU:OE2	3:D:1500:LYS:HB2	1.87	0.75
2:M:737:LEU:HD11	2:M:741:GLY:O	1.86	0.75
3:N:1424:VAL:HG23	3:N:1425:THR:H	1.51	0.75
1:A:138:LEU:HD21	1:A:140:MET:HE3	1.68	0.74
2:C:709:GLU:HG2	2:C:824:ARG:HG2	1.66	0.74
2:C:984:GLU:OE1	3:D:945:SER:HA	1.86	0.74
3:D:112:ILE:O	3:D:115:LEU:HB3	1.87	0.74
3:D:548:ILE:HG22	3:D:552:ASN:ND2	2.00	0.74
3:D:567:ILE:HG21	5:F:140:ARG:HH12	1.52	0.74
3:D:1339:LYS:HB3	3:D:1343:ALA:HB2	1.69	0.74
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.02	0.74
2:M:304:LEU:CB	2:M:305:PRO:HD3	2.17	0.74
3:N:135:LEU:HD12	3:N:148:GLU:HB2	1.67	0.74
3:N:1085:ALA:HA	3:N:1088:THR:HG22	1.69	0.74
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.68	0.74
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.52	0.74
1:A:178:ALA:HB2	2:C:864:GLY:HA3	1.69	0.74
2:C:101:ILE:HA	2:C:106:GLY:O	1.87	0.74
3:D:411:THR:HB	3:D:437:VAL:CB	2.16	0.74
3:D:523:ASP:HA	3:D:526:PRO:HG3	1.68	0.74
3:D:811:GLU:HB2	3:D:816:HIS:CE1	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:115:LYS:O	5:F:119:ILE:HG13	1.87	0.74
5:F:123:ASP:O	5:F:126:LEU:HB3	1.87	0.74
1:L:58:ILE:HG12	1:L:140:MET:HB2	1.68	0.74
1:L:101:LEU:HB3	1:L:140:MET:SD	2.27	0.74
3:N:775:GLY:HA2	3:N:1209:LEU:O	1.87	0.74
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.87	0.74
1:A:5:LYS:HZ1	1:A:192:LEU:HD22	1.50	0.74
2:C:264:PRO:C	2:C:289:THR:HG21	2.08	0.74
2:C:344:PHE:O	2:C:348:LEU:HB2	1.85	0.74
3:D:119:SER:H	3:D:123:LEU:CD1	2.00	0.74
5:F:386:VAL:HG23	5:F:387:GLY:N	2.03	0.74
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.01	0.74
3:N:252:ARG:HG3	3:N:300:LYS:C	2.08	0.74
3:N:264:LEU:HD12	3:N:267:GLY:HA3	1.67	0.74
3:N:1394:VAL:HG21	3:N:1397:LYS:HZ1	1.52	0.74
5:P:113:ILE:HA	5:P:116:LEU:HD12	1.69	0.74
2:C:31:GLN:O	2:C:35:PRO:HB2	1.88	0.74
2:C:300:ASP:OD2	2:C:302:VAL:HB	1.87	0.74
3:D:16:GLU:H	3:D:16:GLU:CD	1.91	0.74
3:D:82:LYS:CB	3:D:84:ILE:HG22	2.18	0.74
5:F:155:THR:HA	5:F:158:GLU:OE2	1.87	0.74
2:M:194:VAL:HA	2:M:197:LEU:CD1	2.16	0.74
2:M:626:ARG:HG3	2:M:629:TYR:HD1	1.52	0.74
3:N:1098:LEU:H	3:N:1098:LEU:CD1	2.00	0.74
3:D:700:VAL:O	3:D:715:ALA:HA	1.87	0.74
5:F:321:ILE:HG13	5:F:332:PHE:CE1	2.22	0.74
1:L:100:LEU:HD12	1:L:140:MET:O	1.88	0.74
2:M:199:VAL:HG21	2:M:238:LEU:HD11	1.70	0.74
3:N:1381:VAL:HG12	3:N:1391:GLU:O	1.87	0.74
1:A:91:ASN:HD21	1:A:93:SER:HB2	1.53	0.74
1:B:68:ILE:HG13	1:B:71:VAL:O	1.87	0.74
2:C:353:ARG:HG2	2:C:353:ARG:HH11	1.52	0.74
3:D:119:SER:HB3	3:D:123:LEU:N	1.98	0.74
1:L:55:SER:HB2	1:L:165:ILE:O	1.88	0.74
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.23	0.74
2:M:163:ILE:O	2:M:266:ARG:HG3	1.87	0.74
2:M:325:ILE:H	2:M:325:ILE:CD1	2.00	0.74
2:M:439:CYS:HB2	2:M:541:SER:HB3	1.69	0.74
3:N:119:SER:H	3:N:123:LEU:CB	2.01	0.74
3:N:812:ALA:HA	3:N:816:HIS:HB2	1.69	0.74
3:N:1201:CYS:SG	3:N:1203:LYS:HB2	2.28	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:81:VAL:HG23	5:P:82:ARG:H	1.52	0.74
3:D:119:SER:CB	3:D:123:LEU:HG	2.18	0.74
3:D:241:ILE:HG13	3:D:312:ARG:NH1	2.02	0.74
3:D:534:ARG:NE	5:F:314:PRO:HA	2.02	0.74
3:D:1394:VAL:HB	3:D:1397:LYS:CE	2.16	0.74
5:F:157:GLU:HA	5:F:160:ASP:OD2	1.88	0.74
2:M:575:GLN:HG3	2:M:670:GLN:HG2	1.69	0.74
2:M:1055:LEU:HD11	2:M:1079:PRO:HG3	1.70	0.74
3:N:192:ALA:HB3	3:N:195:VAL:CG2	2.17	0.74
3:N:252:ARG:NH2	3:N:300:LYS:HG2	2.03	0.74
3:N:432:TYR:O	3:N:448:GLU:HA	1.86	0.74
3:N:890:VAL:HG23	3:N:892:ASP:H	1.52	0.74
3:N:1290:LEU:HD23	3:N:1307:LYS:HA	1.68	0.74
2:C:115:LEU:HD23	2:C:115:LEU:H	1.53	0.74
2:C:325:ILE:H	2:C:325:ILE:CD1	2.01	0.74
2:C:678:PRO:O	3:D:943:THR:HA	1.87	0.74
3:D:65:ARG:HG3	3:D:67:ARG:HG2	1.68	0.74
3:D:864:VAL:HG12	3:D:865:THR:N	2.01	0.74
3:D:1269:LYS:HE2	3:D:1270:ALA:H	1.53	0.74
4:E:7:ASP:HA	4:E:10:PHE:HD1	1.51	0.74
2:M:764:GLU:O	2:M:766:GLU:HG3	1.87	0.74
3:N:371:ILE:HD13	5:P:232:ARG:HD3	1.70	0.74
3:N:1080:GLY:O	3:N:1084:THR:HG22	1.88	0.74
2:C:232:GLU:HA	2:C:235:LEU:HD13	1.69	0.74
2:C:278:GLU:OE2	2:C:284:ARG:HG2	1.87	0.74
2:C:889:HIS:HE1	3:D:951:ILE:H	1.36	0.74
3:D:610:LYS:NZ	3:D:1441:GLN:HG3	2.02	0.74
3:D:1029:ARG:HG3	3:D:1029:ARG:NH1	2.01	0.74
5:F:192:LEU:O	5:F:195:VAL:HB	1.88	0.74
5:P:271:LEU:HD11	5:P:307:THR:HG21	1.70	0.74
2:C:712:ALA:O	2:C:820:ARG:HG3	1.87	0.74
2:C:918:LEU:HD12	2:C:968:LEU:HA	1.70	0.74
3:D:119:SER:H	3:D:123:LEU:CG	2.00	0.74
3:D:519:VAL:HA	3:D:544:TYR:OH	1.87	0.74
5:F:386:VAL:HG23	5:F:387:GLY:H	1.53	0.74
2:M:628:PHE:HD1	2:M:628:PHE:N	1.85	0.74
3:N:133:ILE:CD1	3:N:456:MET:HE1	2.19	0.73
3:N:1267:ARG:NH2	3:N:1271:LYS:HZ1	1.82	0.73
2:C:674:VAL:HG21	2:C:871:LEU:HD12	1.70	0.73
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.70	0.73
3:D:191:LEU:HD23	3:D:195:VAL:CG1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1066:THR:HB	3:D:1069:GLU:H	1.51	0.73
3:D:1311:LEU:HD21	3:D:1313:VAL:O	1.86	0.73
1:L:18:ARG:HH12	1:L:88:ARG:NH2	1.86	0.73
2:M:276:LYS:HB3	2:M:280:LYS:NZ	2.03	0.73
3:N:810:GLU:O	3:N:813:LEU:HG	1.87	0.73
3:N:1406:ARG:HB3	3:N:1412:LYS:HE2	1.70	0.73
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.51	0.73
5:P:392:VAL:HG11	5:P:396:ARG:HD3	1.69	0.73
2:C:913:GLU:O	2:C:916:GLU:HB3	1.89	0.73
3:D:249:TYR:HE1	3:D:330:THR:HG21	1.53	0.73
4:E:31:LEU:HD21	4:E:60:ALA:HB2	1.69	0.73
1:K:64:GLU:HG3	1:K:76:VAL:HG22	1.70	0.73
2:C:1005:MET:HG2	3:D:629:SER:HB2	1.71	0.73
2:M:673:LEU:HD21	2:M:895:TYR:CE1	2.23	0.73
3:N:990:ASP:HA	3:N:993:LEU:HD12	1.70	0.73
2:C:91:GLN:HB2	2:C:118:ILE:C	2.07	0.73
2:C:1037:VAL:O	2:C:1041:GLU:HG3	1.88	0.73
3:D:227:LEU:HD11	3:D:327:GLU:H	1.51	0.73
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.70	0.73
3:N:701:LEU:HB2	3:N:748:HIS:HB2	1.68	0.73
3:N:853:VAL:HG13	3:N:858:VAL:O	1.88	0.73
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.04	0.73
1:B:112:ARG:HB3	1:B:112:ARG:HH11	1.54	0.73
1:B:153:ALA:HA	1:B:156:HIS:HE1	1.51	0.73
2:C:55:GLU:HG2	2:C:57:GLU:H	1.53	0.73
2:C:425:PHE:HZ	3:D:1239:ARG:HH21	1.35	0.73
3:D:269:PHE:HD1	3:D:283:PHE:HB2	1.53	0.73
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.18	0.73
2:M:836:GLY:H	2:M:849:VAL:HB	1.53	0.73
3:N:86:ARG:HB3	3:N:523:ASP:OD2	1.89	0.73
3:N:478:LEU:O	3:N:481:MET:HB3	1.89	0.73
3:N:551:ASN:O	3:N:554:LEU:HB3	1.88	0.73
2:C:261:ILE:O	2:C:264:PRO:HD2	1.88	0.73
2:C:439:CYS:HB2	2:C:541:SER:HB2	1.69	0.73
3:D:490:ALA:O	3:D:494:LYS:HG2	1.88	0.73
3:D:806:PHE:H	3:D:809:PRO:HG2	1.53	0.73
5:F:245:GLN:HA	5:F:245:GLN:HE21	1.54	0.73
2:M:15:LEU:HD13	2:M:586:ARG:HH11	1.53	0.73
2:M:136:ILE:HD13	2:M:392:SER:HA	1.71	0.73
2:M:479:VAL:HG23	2:M:506:ASN:O	1.87	0.73
2:M:861:LEU:HB3	2:M:862:PRO:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:N	3:N:123:LEU:HG	2.02	0.73
3:N:260:GLU:HB2	3:N:271:VAL:HB	1.71	0.73
3:N:266:GLU:HB3	3:N:286:VAL:HG23	1.71	0.73
3:N:462:GLN:HG3	3:N:513:ILE:HG21	1.68	0.73
3:N:618:LEU:HD22	5:P:326:ASP:HB2	1.70	0.73
5:P:235:PHE:O	5:P:238:TYR:HB3	1.88	0.73
2:C:334:ARG:HH11	2:C:418:LEU:CD1	2.01	0.73
3:D:48:ARG:HA	3:D:78:VAL:HG22	1.69	0.73
3:D:285:PRO:HB2	3:D:312:ARG:O	1.88	0.73
5:F:159:ILE:O	5:F:162:LYS:HB2	1.88	0.73
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.52	0.73
3:N:139:GLY:C	3:N:147:VAL:HB	2.08	0.73
3:N:399:ARG:HB3	3:N:401:TYR:HE1	1.51	0.73
5:P:416:ARG:HD2	5:P:419:ARG:HG2	1.71	0.73
1:A:206:THR:HG22	1:A:208:LEU:HB3	1.71	0.73
3:D:28:LYS:HG2	3:D:42:ASP:HB3	1.71	0.73
3:D:806:PHE:HA	3:D:809:PRO:CD	2.18	0.73
3:D:1208:ASP:O	3:D:1209:LEU:HB2	1.89	0.73
5:F:383:LEU:HD11	5:F:394:ARG:NH1	2.04	0.73
2:M:626:ARG:HG3	2:M:629:TYR:CD1	2.24	0.73
2:M:986:PRO:O	2:M:987:ILE:HD13	1.88	0.73
3:N:284:LEU:HD22	3:N:288:MET:HG2	1.71	0.73
3:N:1495:ILE:HG23	3:N:1496:GLU:N	2.03	0.73
5:P:181:GLU:OE2	5:P:184:ARG:HD3	1.89	0.73
5:P:383:LEU:CD2	5:P:394:ARG:HD3	2.19	0.73
1:B:138:LEU:HD12	1:B:139:ASN:N	2.04	0.73
2:C:93:PRO:CA	2:C:117:HIS:HB3	2.19	0.73
2:C:987:ILE:HA	3:D:948:THR:HG21	1.70	0.73
2:C:1008:ARG:NH1	3:D:624:ASP:OD1	2.22	0.73
3:D:983:LEU:HD22	3:D:987:GLU:HB3	1.71	0.73
4:E:40:LEU:HD12	4:E:41:GLU:N	2.01	0.73
2:M:21:ILE:HD12	2:M:21:ILE:N	2.02	0.73
2:M:234:ALA:O	2:M:238:LEU:HG	1.89	0.73
2:M:413:LEU:CA	2:M:419:THR:HG21	2.19	0.73
3:N:182:GLY:HA2	3:N:203:ALA:HB3	1.71	0.73
3:N:301:GLY:C	3:N:303:PRO:HD2	2.09	0.73
3:N:984:THR:HG22	3:N:987:GLU:CG	2.18	0.73
5:P:111:GLU:HA	5:P:114:LYS:CD	2.18	0.73
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.70	0.73
1:A:13:VAL:O	1:B:231:ALA:HB3	1.89	0.72
2:C:176:VAL:HG12	2:C:183:SER:H	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.71	0.72
3:D:283:PHE:O	3:D:284:LEU:HD23	1.89	0.72
5:F:142:ARG:HD2	5:F:145:PRO:HA	1.71	0.72
1:L:80:LEU:HB3	3:N:844:ALA:HB2	1.69	0.72
2:M:293:PHE:HD1	2:M:294:GLU:HG3	1.52	0.72
3:N:121:THR:HG23	3:N:122:GLU:N	2.01	0.72
3:N:1085:ALA:HA	3:N:1088:THR:CG2	2.19	0.72
5:P:355:GLU:O	5:P:358:LEU:HB3	1.88	0.72
5:P:422:LEU:N	5:P:422:LEU:HD23	2.04	0.72
1:A:1:MET:H1	1:A:6:LEU:HB2	1.54	0.72
3:D:1041:LEU:HG	3:D:1043:GLY:N	2.03	0.72
3:D:1238:MET:CE	3:D:1239:ARG:HB3	2.19	0.72
5:F:267:THR:O	5:F:270:LYS:HB3	1.89	0.72
2:M:289:THR:C	2:M:290:LEU:HD23	2.09	0.72
2:M:606:VAL:HG12	2:M:611:ILE:HG23	1.70	0.72
2:M:896:PHE:C	2:M:898:GLY:H	1.89	0.72
3:N:410:SER:HB2	5:P:178:ARG:HG3	1.71	0.72
3:N:500:ARG:O	3:N:504:ASP:HB2	1.88	0.72
3:N:1380:GLU:HG2	3:N:1381:VAL:N	2.04	0.72
5:P:282:LEU:HG	5:P:284:ARG:HG3	1.71	0.72
2:C:93:PRO:HG3	2:C:117:HIS:CD2	2.23	0.72
2:C:180:GLY:HA2	2:C:223:ASP:OD2	1.89	0.72
2:C:1104:GLU:HA	3:D:7:LYS:HZ2	1.50	0.72
3:D:100:ALA:HB3	3:D:128:TYR:CE2	2.23	0.72
3:D:108:VAL:HA	3:D:109:PRO:C	2.07	0.72
3:D:499:VAL:O	3:D:503:LEU:N	2.22	0.72
3:D:530:VAL:CG2	3:D:531:ASP:H	1.94	0.72
2:M:281:LEU:HB3	2:M:305:PRO:HB3	1.71	0.72
3:N:241:ILE:HG12	3:N:312:ARG:HG3	1.70	0.72
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.71	0.72
3:N:806:PHE:CD1	3:N:809:PRO:HB2	2.24	0.72
2:C:112:GLU:O	2:C:113:VAL:HG13	1.89	0.72
3:D:351:MET:HG3	3:D:370:ALA:HB2	1.71	0.72
3:D:972:LEU:H	3:D:972:LEU:CD2	2.02	0.72
1:K:118:ALA:O	1:K:120:VAL:HG23	1.88	0.72
2:M:628:PHE:N	2:M:628:PHE:CD1	2.57	0.72
2:M:1067:TYR:O	2:M:1071:ILE:HG12	1.89	0.72
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.18	0.72
3:N:361:VAL:CG1	3:N:365:ASP:HB3	2.14	0.72
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.04	0.72
3:N:1197:ARG:HG2	3:N:1198:TYR:CE2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:VAL:HG12	1:B:98:THR:N	2.04	0.72
2:C:334:ARG:HB2	2:C:339:LEU:HD21	1.72	0.72
5:F:169:GLU:O	5:F:172:ARG:HG2	1.90	0.72
5:F:181:GLU:O	5:F:184:ARG:HB3	1.90	0.72
5:F:382:THR:O	5:F:386:VAL:HG13	1.89	0.72
2:M:599:GLU:HB3	2:M:615:TYR:CD2	2.24	0.72
2:M:1100:GLN:HG3	2:M:1102:LEU:CD2	2.19	0.72
3:N:1130:ARG:NH2	3:N:1323:GLN:HE22	1.87	0.72
1:B:74:ASP:O	1:B:77:GLU:HB3	1.89	0.72
3:D:192:ALA:HB3	3:D:195:VAL:CG2	2.19	0.72
3:D:245:LEU:H	3:D:309:GLY:N	1.87	0.72
3:D:248:PRO:HB3	3:D:308:LYS:HZ1	1.53	0.72
4:E:6:ILE:HG23	4:E:7:ASP:N	2.04	0.72
2:M:101:ILE:HG12	2:M:107:LEU:HA	1.70	0.72
3:N:804:LEU:O	3:N:809:PRO:HG2	1.90	0.72
5:P:280:GLN:HG3	5:P:281:GLU:N	2.05	0.72
1:A:152:PRO:HB2	1:A:154:GLU:OE1	1.89	0.72
1:B:74:ASP:HB3	1:B:77:GLU:HB2	1.70	0.72
3:D:355:VAL:CG2	3:D:367:ILE:HG23	2.20	0.72
3:D:1083:ASP:HB2	3:D:1239:ARG:HH22	1.52	0.72
3:D:1172:HIS:O	3:D:1175:ILE:HB	1.88	0.72
5:F:402:ASN:HB3	5:F:406:ARG:CZ	2.19	0.72
1:K:182:GLU:HG3	1:K:194:LYS:HD3	1.70	0.72
2:M:512:ARG:HG3	2:M:523:ILE:HD11	1.71	0.72
2:M:676:ILE:HG12	2:M:873:PRO:HG3	1.72	0.72
2:M:881:ASN:HD22	2:M:881:ASN:N	1.85	0.72
2:M:1007:ALA:CB	3:N:648:MET:HG3	2.18	0.72
3:N:274:ARG:HE	3:N:279:VAL:HG11	1.55	0.72
2:C:631:SER:HA	2:C:637:LEU:HD11	1.71	0.72
2:C:841:ASN:HD21	2:C:845:ASN:HB3	1.54	0.72
2:C:1063:ARG:O	2:C:1066:ALA:HB3	1.89	0.72
3:D:30:GLU:HB3	3:D:40:GLU:CG	2.20	0.72
3:D:358:GLY:HA2	3:D:385:VAL:O	1.89	0.72
3:D:368:VAL:H	3:D:377:VAL:HB	1.55	0.72
3:D:441:ARG:O	3:D:441:ARG:HG2	1.90	0.72
3:D:462:GLN:HG3	3:D:513:ILE:HG21	1.70	0.72
3:D:803:GLY:C	3:D:805:GLU:H	1.92	0.72
5:F:208:SER:O	5:F:212:LEU:HG	1.90	0.72
5:F:351:SER:HA	5:F:354:LEU:HD12	1.72	0.72
2:M:224:GLU:HB3	2:M:227:PHE:HB2	1.72	0.72
3:N:525:ARG:HG2	3:N:525:ARG:HH11	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1001:GLU:OE2	3:N:1001:GLU:HA	1.88	0.72
3:N:1114:THR:HB	3:N:1195:GLN:CD	2.10	0.72
5:P:213:ILE:HG22	5:P:217:ASN:HD21	1.55	0.72
2:C:182:VAL:HG22	2:C:220:GLY:O	1.89	0.72
3:D:1479:ASP:HA	3:D:1482:ARG:HE	1.55	0.72
3:D:1500:LYS:C	3:D:1502:ALA:H	1.92	0.72
5:F:265:VAL:HG12	5:F:269:ASN:HD21	1.52	0.72
1:K:176:ARG:CZ	2:M:865:THR:HG22	2.20	0.72
3:N:297:ILE:HG23	3:N:298:VAL:N	2.05	0.72
1:A:9:PRO:HG3	1:A:27:PRO:O	1.89	0.72
2:C:204:GLN:O	2:C:209:ARG:HD3	1.89	0.72
3:D:154:THR:HG22	3:D:157:GLU:CD	2.10	0.72
3:D:204:LEU:O	3:D:393:ILE:HG23	1.90	0.72
3:D:927:THR:O	3:D:930:LEU:HB3	1.90	0.72
5:F:274:THR:O	5:F:278:LEU:HG	1.90	0.72
1:K:5:LYS:HE3	1:K:29:GLU:OE1	1.90	0.72
2:M:309:TYR:CE2	2:M:321:GLU:HG3	2.25	0.72
3:N:89:ARG:HG2	3:N:89:ARG:HH11	1.55	0.72
3:N:367:ILE:HB	3:N:377:VAL:HG12	1.71	0.72
3:N:1074:SER:O	3:N:1077:ALA:HB3	1.90	0.72
1:B:112:ARG:NH1	1:B:125:PRO:HB2	2.05	0.71
2:C:654:LEU:O	2:C:655:LEU:HD23	1.89	0.71
2:C:679:PHE:HA	3:D:943:THR:HG23	1.72	0.71
3:D:140:ALA:H	3:D:450:TYR:HE2	1.33	0.71
3:D:187:LYS:HA	3:D:198:ARG:O	1.89	0.71
3:D:704:ARG:HB2	3:D:745:MET:SD	2.29	0.71
3:D:916:TYR:CE2	3:D:920:LEU:HD11	2.25	0.71
3:D:1428:ALA:O	3:D:1431:THR:HG23	1.90	0.71
1:K:49:PRO:HA	1:K:148:VAL:HG12	1.72	0.71
3:N:563:PRO:O	3:N:566:ILE:HG12	1.90	0.71
3:N:828:LYS:N	3:N:828:LYS:HD3	2.05	0.71
3:D:181:ASP:C	3:D:183:GLU:H	1.93	0.71
3:D:827:ILE:HG23	3:D:837:GLY:HA3	1.72	0.71
3:D:1499:ARG:HH11	3:D:1499:ARG:HG3	1.54	0.71
1:K:12:THR:HG22	1:L:229:GLN:CG	2.20	0.71
1:K:189:ARG:HB3	1:K:192:LEU:HD21	1.72	0.71
2:M:398:THR:CA	2:M:633:GLN:HG3	2.21	0.71
2:M:810:ASP:N	2:M:811:PRO:HD2	2.05	0.71
3:N:128:TYR:HA	3:N:457:GLY:HA2	1.71	0.71
3:N:149:LYS:HD3	3:N:149:LYS:N	2.05	0.71
3:N:463:GLN:HB3	3:N:467:GLU:OE2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1159:ARG:C	3:N:1160:LEU:HD23	2.11	0.71
3:N:1405:GLU:OE1	3:N:1406:ARG:HG3	1.91	0.71
3:N:1461:GLY:O	3:N:1473:PRO:HG2	1.89	0.71
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.24	0.71
2:C:328:LEU:HG	2:C:433:THR:OG1	1.89	0.71
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.72	0.71
3:D:1066:THR:H	3:D:1069:GLU:HB2	1.55	0.71
5:F:158:GLU:O	5:F:162:LYS:HG3	1.89	0.71
5:F:208:SER:HB3	5:F:211:ASP:OD2	1.90	0.71
1:K:5:LYS:HE3	1:K:29:GLU:CD	2.11	0.71
3:N:224:ARG:HB3	3:N:249:TYR:HH	1.55	0.71
3:N:992:ILE:O	3:N:995:LEU:HB3	1.90	0.71
4:O:41:GLU:CB	4:O:42:PRO:HD2	2.19	0.71
2:C:211:LEU:C	2:C:213:ALA:H	1.89	0.71
2:C:368:THR:CB	2:C:369:PRO:HD3	2.19	0.71
2:M:274:ARG:NH2	2:M:284:ARG:HB3	2.02	0.71
2:M:463:GLU:CD	2:M:463:GLU:N	2.43	0.71
3:N:807:ALA:HA	3:N:833:GLU:CG	2.21	0.71
1:A:111:ALA:HA	1:A:129:ILE:HD11	1.72	0.71
2:C:346:VAL:HG23	2:C:347:GLY:N	2.04	0.71
2:C:595:LEU:O	2:C:654:LEU:HD12	1.89	0.71
3:D:85:VAL:HG21	3:D:89:ARG:NE	2.06	0.71
3:D:127:LEU:HD23	3:D:128:TYR:CA	2.19	0.71
3:D:887:ALA:HB1	3:D:893:GLU:HA	1.72	0.71
3:D:1217:ILE:H	3:D:1217:ILE:CD1	1.93	0.71
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.55	0.71
2:M:976:ASP:OD2	2:M:978:ARG:HB2	1.91	0.71
3:N:357:GLU:CD	3:N:357:GLU:H	1.94	0.71
4:O:40:LEU:HD13	4:O:72:ARG:NH1	2.04	0.71
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.21	0.71
2:C:760:SER:O	2:C:785:VAL:HA	1.90	0.71
2:C:1060:ILE:O	2:C:1063:ARG:HG2	1.91	0.71
3:D:250:LEU:HD11	3:D:304:LEU:HD22	1.71	0.71
3:N:48:ARG:HA	3:N:78:VAL:HG22	1.70	0.71
3:N:274:ARG:HB3	3:N:279:VAL:CG2	2.20	0.71
3:N:806:PHE:CA	3:N:809:PRO:HD2	2.20	0.71
3:N:1149:LEU:HD23	3:N:1161:GLU:O	1.90	0.71
3:N:1495:ILE:HG23	3:N:1496:GLU:H	1.55	0.71
1:A:206:THR:CG2	1:A:208:LEU:HB3	2.20	0.71
2:C:208:ALA:HB2	2:C:221:LEU:CD2	2.21	0.71
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:221:ALA:O	3:D:334:THR:HA	1.91	0.71
3:D:408:GLU:CD	3:D:422:ALA:HB2	2.11	0.71
3:D:699:VAL:HG12	3:D:717:GLN:HG2	1.71	0.71
3:D:826:PRO:HD2	3:D:829:VAL:HG21	1.71	0.71
2:M:304:LEU:HB3	2:M:305:PRO:CD	2.17	0.71
3:N:209:ARG:HA	3:N:347:VAL:HB	1.71	0.71
3:N:272:LEU:HD12	3:N:280:ALA:CB	2.13	0.71
5:P:78:SER:C	5:P:80:PRO:HD3	2.11	0.71
5:P:90:GLN:O	5:P:92:PRO:HD3	1.90	0.71
5:P:264:MET:HA	5:P:264:MET:CE	2.19	0.71
3:D:120:ALA:HA	3:D:124:GLU:OE2	1.90	0.71
3:D:508:ARG:HB3	3:D:510:GLU:OE1	1.90	0.71
5:F:409:LYS:HD2	5:F:410:TYR:N	2.05	0.71
1:L:61:VAL:HG23	1:L:163:ASN:HB3	1.72	0.71
2:M:199:VAL:HG21	2:M:238:LEU:CD1	2.20	0.71
2:M:480:THR:HG22	2:M:482:GLU:H	1.56	0.71
3:N:224:ARG:HB3	3:N:249:TYR:OH	1.90	0.71
1:A:224:TYR:CD2	1:A:224:TYR:N	2.59	0.71
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.71	0.71
2:C:31:GLN:HA	2:C:35:PRO:HG2	1.70	0.71
2:C:302:VAL:O	2:C:305:PRO:HD2	1.91	0.71
2:C:305:PRO:HA	2:C:308:ARG:HE	1.53	0.71
2:C:1043:TYR:CE1	3:D:710:ARG:HB2	2.26	0.71
3:D:138:LYS:HB3	3:D:450:TYR:OH	1.91	0.71
3:D:252:ARG:HG3	3:D:300:LYS:HA	1.73	0.71
3:D:284:LEU:HB3	3:D:288:MET:HB3	1.72	0.71
3:D:407:VAL:HG22	3:D:408:GLU:H	1.56	0.71
3:D:1152:GLU:HG2	3:D:1153:VAL:N	2.05	0.71
3:D:1155:VAL:HG12	3:D:1156:LEU:HG	1.73	0.71
3:D:1378:TYR:HB2	3:D:1422:MET:CE	2.20	0.71
3:D:1486:VAL:HG21	4:E:22:VAL:HG13	1.73	0.71
5:F:81:VAL:CG2	5:F:82:ARG:H	2.03	0.71
5:F:214:GLN:O	5:F:217:ASN:HB2	1.91	0.71
1:L:47:SER:O	1:L:48:ILE:HD12	1.91	0.71
2:M:537:LYS:HA	2:M:545:ASN:OD1	1.91	0.71
3:N:307:ALA:HB1	3:N:311:LEU:HD11	1.72	0.71
3:N:1217:ILE:H	3:N:1217:ILE:CD1	1.96	0.71
5:P:295:MET:HG3	5:P:299:TRP:CE2	2.26	0.71
1:A:49:PRO:HA	1:A:148:VAL:HG12	1.70	0.71
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.20	0.71
3:D:358:GLY:CA	3:D:385:VAL:HB	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:406:ASP:HB2	3:D:423:ASP:HA	1.73	0.71
3:D:680:GLN:HA	3:D:683:ILE:CD1	2.21	0.71
3:D:1388:ARG:HH21	3:D:1390:LEU:HD23	1.52	0.71
3:N:563:PRO:O	3:N:567:ILE:HG12	1.91	0.71
5:P:81:VAL:HG23	5:P:82:ARG:N	2.05	0.71
1:B:19:GLU:HA	1:B:201:THR:OG1	1.91	0.70
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.73	0.70
3:D:610:LYS:HZ1	3:D:1441:GLN:HG3	1.54	0.70
3:D:777:PRO:O	3:D:780:LYS:HD3	1.91	0.70
5:F:101:GLU:O	5:F:105:LYS:HG3	1.90	0.70
2:M:175:GLU:HB3	2:M:185:LYS:HE3	1.73	0.70
2:M:889:HIS:HD1	2:M:970:GLY:HA3	1.55	0.70
3:N:153:LEU:CD1	3:N:157:GLU:HB3	2.21	0.70
3:N:237:LYS:CB	3:N:238:PRO:HD2	2.16	0.70
3:N:591:VAL:HG12	3:N:599:PRO:HA	1.71	0.70
5:P:151:LEU:HD13	5:P:154:LYS:HD2	1.72	0.70
5:P:210:LEU:CA	5:P:213:ILE:HD12	2.19	0.70
5:P:373:LYS:HB3	5:P:373:LYS:HZ2	1.56	0.70
1:B:5:LYS:C	1:B:7:LYS:N	2.42	0.70
2:C:266:ARG:HD2	2:C:273:GLY:N	2.06	0.70
3:D:1153:VAL:HB	3:D:1160:LEU:HB2	1.72	0.70
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.54	0.70
2:M:100:LEU:HD23	2:M:368:THR:HG23	1.73	0.70
3:N:119:SER:CB	3:N:123:LEU:HG	2.20	0.70
3:N:135:LEU:N	3:N:135:LEU:HD23	2.07	0.70
3:N:632:VAL:O	3:N:728:LEU:N	2.22	0.70
5:P:175:HIS:O	5:P:178:ARG:HB2	1.91	0.70
5:P:383:LEU:O	5:P:386:VAL:HG22	1.90	0.70
1:A:195:LEU:HD12	1:A:196:THR:N	2.05	0.70
2:C:192:PRO:O	2:C:195:LEU:HG	1.91	0.70
2:C:839:LEU:HD23	2:C:996:LYS:HA	1.73	0.70
3:D:800:LYS:HE3	3:D:826:PRO:CD	2.20	0.70
3:D:1496:GLU:HA	3:D:1499:ARG:HB3	1.73	0.70
5:F:94:LEU:HG	5:F:190:ALA:HB1	1.74	0.70
1:K:9:PRO:HG2	1:K:28:LEU:HD21	1.73	0.70
3:N:191:LEU:HD23	3:N:195:VAL:CG1	2.22	0.70
3:N:490:ALA:O	3:N:494:LYS:HG2	1.90	0.70
3:N:563:PRO:HD2	3:N:566:ILE:HD11	1.72	0.70
5:P:214:GLN:CA	5:P:217:ASN:HD22	2.03	0.70
2:C:37:GLU:HG2	2:C:71:TYR:HE2	1.56	0.70
3:D:185:VAL:HA	3:D:189:GLN:NE2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:807:ALA:HA	3:D:833:GLU:HG2	1.73	0.70
2:M:89:THR:HA	2:M:128:ILE:O	1.91	0.70
2:M:299:LYS:HE2	2:M:301:GLU:HG3	1.73	0.70
2:M:643:VAL:HG23	2:M:647:GLN:CD	2.12	0.70
3:N:82:LYS:CB	3:N:84:ILE:HG22	2.22	0.70
3:N:178:LEU:HG	3:N:181:ASP:HB2	1.71	0.70
3:N:327:GLU:HG3	3:N:327:GLU:O	1.91	0.70
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.06	0.70
3:N:1155:VAL:HG12	3:N:1156:LEU:HG	1.72	0.70
3:N:1496:GLU:OE2	3:N:1500:LYS:HG3	1.91	0.70
1:B:5:LYS:HE2	1:B:189:ARG:NH1	2.05	0.70
2:C:503:LEU:HG	2:C:504:GLU:H	1.57	0.70
2:C:640:ARG:HD2	2:C:642:ARG:NH2	2.05	0.70
2:C:892:LEU:O	2:C:895:TYR:HB3	1.91	0.70
3:D:118:LEU:HD22	3:D:123:LEU:HB3	1.72	0.70
3:D:864:VAL:HG12	3:D:865:THR:H	1.56	0.70
2:M:15:LEU:HD13	2:M:586:ARG:NH1	2.07	0.70
2:M:50:GLU:C	2:M:52:PHE:H	1.93	0.70
2:M:398:THR:HA	2:M:633:GLN:HG3	1.72	0.70
2:M:808:ARG:HG2	2:M:820:ARG:O	1.91	0.70
3:N:441:ARG:NE	3:N:441:ARG:O	2.24	0.70
3:N:800:LYS:O	3:N:830:ALA:HB3	1.91	0.70
3:N:1307:LYS:H	3:N:1307:LYS:HE3	1.55	0.70
5:P:260:ILE:HG13	5:P:261:PRO:HD2	1.72	0.70
2:C:175:GLU:O	2:C:183:SER:HB2	1.91	0.70
2:C:185:LYS:HE2	2:C:190:LYS:HZ2	1.57	0.70
2:C:283:ILE:HG22	2:C:284:ARG:N	2.01	0.70
2:C:904:PRO:HD2	2:C:908:GLY:CA	2.21	0.70
3:D:676:MET:HG3	3:D:677:LEU:HD23	1.73	0.70
4:E:88:GLU:O	4:E:92:ILE:HG13	1.91	0.70
5:F:207:LEU:HB3	5:F:212:LEU:CD2	2.20	0.70
5:F:306:GLU:O	5:F:310:ILE:HG13	1.92	0.70
2:M:261:ILE:HG22	2:M:262:ALA:N	2.07	0.70
3:N:206:ARG:HG2	3:N:392:SER:O	1.90	0.70
5:P:289:GLU:CD	5:P:289:GLU:H	1.95	0.70
2:C:257:VAL:HA	2:C:261:ILE:CD1	2.19	0.70
2:C:626:ARG:HG3	2:C:626:ARG:HH11	1.55	0.70
3:D:833:GLU:H	3:D:833:GLU:CD	1.93	0.70
2:M:334:ARG:HB2	2:M:339:LEU:HD21	1.74	0.70
2:M:693:GLU:HG3	2:M:697:ARG:NH1	2.07	0.70
3:N:142:LEU:HD13	3:N:144:GLY:N	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.92	0.70
3:N:966:GLU:O	3:N:969:ARG:HG2	1.92	0.70
1:A:76:VAL:HG12	1:A:80:LEU:HD21	1.73	0.70
2:C:910:LYS:HG2	2:C:913:GLU:CG	2.21	0.70
3:D:264:LEU:HD22	3:D:316:GLN:HE21	1.57	0.70
3:D:690:ALA:O	3:D:693:GLU:HB3	1.92	0.70
3:D:1074:SER:O	3:D:1077:ALA:HB3	1.92	0.70
5:F:288:TYR:HB3	5:F:301:ALA:HA	1.73	0.70
2:M:75:GLU:O	2:M:77:PRO:HD3	1.91	0.70
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.73	0.70
3:N:209:ARG:NH2	3:N:391:ALA:HA	2.07	0.70
3:N:525:ARG:N	3:N:526:PRO:HD3	2.05	0.70
3:N:820:GLU:HG3	3:N:836:VAL:HG11	1.74	0.70
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.26	0.70
3:N:932:ASP:O	3:N:935:LYS:HB3	1.92	0.70
3:N:1481:VAL:HG13	4:O:18:ARG:HA	1.73	0.70
4:O:6:ILE:HG13	4:O:10:PHE:CE1	2.27	0.70
5:P:219:GLY:CA	5:P:246:ALA:HB2	2.22	0.70
5:P:234:LYS:HE2	5:P:236:SER:HB3	1.74	0.70
2:C:115:LEU:CD1	2:C:373:VAL:HG12	2.21	0.70
2:C:1103:ASP:O	3:D:7:LYS:HD2	1.92	0.70
3:D:408:GLU:HG3	3:D:421:LEU:O	1.92	0.70
5:F:234:LYS:HE2	5:F:236:SER:CB	2.21	0.70
5:P:330:GLY:HA2	5:P:333:ILE:HD13	1.72	0.70
2:C:151:ASP:H	2:C:158:TYR:CA	2.05	0.70
2:C:266:ARG:HG3	2:C:266:ARG:NH1	2.07	0.70
2:C:808:ARG:HG2	2:C:815:LEU:HD12	1.73	0.70
3:D:147:VAL:CG2	3:D:148:GLU:H	2.05	0.70
3:D:1173:LEU:O	3:D:1176:LYS:HB3	1.92	0.70
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.73	0.70
3:N:47:GLU:HB2	3:N:51:GLY:O	1.91	0.70
3:N:245:LEU:HD23	3:N:309:GLY:N	2.05	0.70
4:O:46:PRO:HB2	4:O:57:ASP:HB3	1.74	0.70
3:D:760:ARG:NH1	4:E:61:GLU:HB2	2.07	0.69
3:D:761:ILE:HD12	4:E:20:THR:HG23	1.73	0.69
3:D:805:GLU:HA	3:D:831:GLY:HA2	1.72	0.69
5:F:189:GLU:HA	5:F:192:LEU:CG	2.20	0.69
5:F:210:LEU:CA	5:F:213:ILE:HD12	2.12	0.69
5:F:214:GLN:CA	5:F:217:ASN:HD22	2.04	0.69
1:L:197:LEU:HD12	1:L:198:ARG:N	2.06	0.69
2:M:948:GLU:HB3	2:M:953:VAL:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:32:ILE:HG22	3:N:33:ASN:O	1.91	0.69
3:N:325:GLU:CG	3:N:332:TYR:HB3	2.21	0.69
3:N:998:GLU:O	3:N:1001:GLU:HB3	1.91	0.69
5:P:329:TYR:HD1	5:P:333:ILE:HD11	1.55	0.69
2:C:676:ILE:O	3:D:948:THR:HG22	1.91	0.69
2:C:861:LEU:N	2:C:861:LEU:HD23	2.07	0.69
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.73	0.69
5:P:184:ARG:HG2	5:P:188:ILE:HD11	1.73	0.69
2:C:737:LEU:HD12	2:C:742:VAL:C	2.11	0.69
2:C:939:ARG:NH2	2:C:981:GLU:HG2	2.07	0.69
5:F:288:TYR:HB2	5:F:289:GLU:OE2	1.91	0.69
1:K:101:LEU:HD12	1:K:102:LYS:H	1.57	0.69
2:M:41:ASN:ND2	2:M:46:ALA:HB2	2.07	0.69
3:N:419:ASP:O	3:N:428:LYS:HE2	1.91	0.69
3:N:1081:GLY:O	3:N:1084:THR:HG23	1.92	0.69
5:P:322:GLY:O	5:P:324:GLU:HG3	1.91	0.69
5:P:386:VAL:HG23	5:P:387:GLY:N	2.07	0.69
1:B:185:ARG:NH2	3:D:692:GLU:HG3	2.08	0.69
2:C:182:VAL:HG21	2:C:194:VAL:HG23	1.75	0.69
3:D:135:LEU:HD12	3:D:148:GLU:O	1.92	0.69
5:F:115:LYS:HA	5:F:118:GLU:OE2	1.92	0.69
2:M:71:TYR:H	2:M:71:TYR:HD2	1.40	0.69
2:M:177:GLU:O	2:M:181:VAL:HB	1.93	0.69
2:M:448:ASN:HB3	2:M:452:ILE:HD12	1.75	0.69
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.74	0.69
3:N:1381:VAL:HG11	3:N:1391:GLU:HB2	1.75	0.69
5:P:312:GLN:HA	5:P:312:GLN:OE1	1.92	0.69
1:A:11:PHE:O	1:B:229:GLN:HB3	1.92	0.69
1:B:86:VAL:HG12	1:B:124:ASN:HD21	1.57	0.69
3:D:212:ARG:HA	3:D:343:LYS:O	1.92	0.69
3:D:322:VAL:HG23	3:D:335:LEU:HD11	1.74	0.69
3:D:1472:ILE:HD13	3:D:1473:PRO:CD	2.23	0.69
1:K:29:GLU:OE1	1:K:29:GLU:HA	1.91	0.69
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.21	0.69
1:L:185:ARG:HA	1:L:190:THR:HA	1.72	0.69
2:M:368:THR:N	2:M:369:PRO:CD	2.55	0.69
2:M:373:VAL:HG12	2:M:374:ASN:N	2.07	0.69
3:N:658:LEU:HD23	3:N:661:MET:HE1	1.73	0.69
3:N:1288:GLU:O	3:N:1307:LYS:HD3	1.92	0.69
5:P:220:LEU:O	5:P:224:VAL:HG23	1.93	0.69
1:A:70:GLY:H	2:C:607:ASP:HB2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:GLY:O	1:B:136:GLY:HA3	1.92	0.69
2:C:492:ASP:HA	2:C:518:LYS:HB3	1.74	0.69
3:D:103:TRP:HZ2	3:D:604:THR:HG23	1.58	0.69
3:D:225:LEU:HB3	3:D:226:PRO:HD2	1.73	0.69
1:K:183:ASP:OD2	2:M:938:LYS:HE3	1.92	0.69
1:L:58:ILE:HB	1:L:61:VAL:HG11	1.75	0.69
1:L:206:THR:HB	1:L:209:GLU:CD	2.12	0.69
2:M:419:THR:O	2:M:420:ARG:HG3	1.93	0.69
3:N:545:ARG:NE	5:P:257:THR:HA	2.07	0.69
3:N:1122:LEU:O	3:N:1135:ARG:HG3	1.91	0.69
3:N:1396:GLU:O	3:N:1398:TRP:N	2.23	0.69
5:P:75:ILE:HG13	5:P:76:SER:N	2.04	0.69
5:P:373:LYS:HB2	5:P:378:GLY:C	2.13	0.69
2:C:101:ILE:CG2	2:C:102:HIS:H	2.06	0.69
3:D:1038:LEU:HA	3:D:1061:PHE:HB2	1.75	0.69
5:F:321:ILE:HB	5:F:327:SER:OG	1.93	0.69
1:L:9:PRO:HG3	1:L:27:PRO:O	1.93	0.69
1:L:92:PRO:C	1:L:146:ARG:HH22	1.96	0.69
1:L:161:ARG:H	1:L:164:ALA:CB	2.06	0.69
2:M:139:GLN:O	2:M:333:ILE:HD12	1.92	0.69
2:M:599:GLU:HA	2:M:651:LYS:HB2	1.74	0.69
3:N:173:PRO:HA	3:N:209:ARG:NH1	2.07	0.69
3:N:324:ALA:HB1	3:N:331:VAL:HG11	1.74	0.69
3:N:529:GLN:HB2	3:N:535:PHE:CD2	2.28	0.69
3:N:1267:ARG:HE	3:N:1271:LYS:NZ	1.90	0.69
1:A:33:GLY:O	1:A:195:LEU:HD22	1.92	0.69
1:A:69:PRO:HA	2:C:607:ASP:OD1	1.93	0.69
1:B:5:LYS:HD3	1:B:7:LYS:HD2	1.72	0.69
1:B:217:ILE:HG22	1:B:221:HIS:CD2	2.27	0.69
2:C:260:LEU:HD13	2:C:291:ALA:HB2	1.75	0.69
2:C:334:ARG:HH11	2:C:418:LEU:HD11	1.58	0.69
2:C:414:GLY:N	2:C:419:THR:HG21	2.08	0.69
2:C:443:THR:O	2:C:559:LEU:HD11	1.92	0.69
2:C:949:LYS:NZ	3:D:796:ARG:HH12	1.90	0.69
3:D:60:CYS:HB2	3:D:62:LYS:HE2	1.75	0.69
3:D:353:VAL:HA	3:D:368:VAL:CG2	2.10	0.69
3:D:819:GLY:HA2	3:D:824:ASN:HD22	1.56	0.69
3:D:1229:ILE:O	3:D:1232:PRO:HD2	1.93	0.69
3:D:1494:ALA:HB1	4:E:88:GLU:CB	2.22	0.69
5:F:365:GLU:HA	5:F:368:VAL:HG13	1.72	0.69
2:M:182:VAL:HB	2:M:193:LEU:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:232:GLU:HA	2:M:235:LEU:HD13	1.72	0.69
2:M:408:ARG:HG2	2:M:455:LEU:HB3	1.75	0.69
2:M:553:ASP:HA	2:M:881:ASN:HA	1.74	0.69
2:M:672:VAL:O	2:M:991:GLN:HA	1.93	0.69
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.33	0.69
3:N:241:ILE:CD1	3:N:310:LEU:HD22	2.23	0.69
3:N:358:GLY:CA	3:N:385:VAL:HB	2.23	0.69
3:N:522:PRO:N	3:N:525:ARG:HH12	1.91	0.69
3:N:660:LYS:HD2	3:N:693:GLU:OE2	1.91	0.69
3:N:680:GLN:HA	3:N:683:ILE:HD12	1.74	0.69
3:N:769:LEU:N	3:N:769:LEU:CD1	2.56	0.69
3:N:807:ALA:HA	3:N:833:GLU:HG2	1.74	0.69
3:N:1118:ILE:CD1	3:N:1190:SER:HB2	2.22	0.69
3:N:1127:GLU:HG3	3:N:1128:VAL:H	1.58	0.69
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.92	0.69
3:N:1196:THR:HB	3:N:1199:GLY:O	1.91	0.69
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.23	0.69
5:P:123:ASP:O	5:P:126:LEU:HB3	1.93	0.69
1:B:152:PRO:HG2	1:B:155:LYS:HB2	1.73	0.69
2:C:197:LEU:HB3	2:C:207:LEU:CD1	2.22	0.69
2:C:276:LYS:HA	2:C:280:LYS:HE3	1.74	0.69
2:C:949:LYS:NZ	3:D:796:ARG:NH1	2.40	0.69
3:D:61:GLY:O	3:D:64:LYS:HE3	1.92	0.69
3:D:65:ARG:HG3	3:D:67:ARG:H	1.58	0.69
3:D:1344:VAL:HG13	3:D:1345:GLU:N	2.07	0.69
1:L:5:LYS:HZ3	1:L:189:ARG:CZ	2.06	0.69
2:M:178:PRO:O	2:M:220:GLY:HA2	1.93	0.69
2:M:575:GLN:HE21	2:M:670:GLN:HB3	1.58	0.69
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.74	0.69
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.28	0.69
3:N:367:ILE:HG22	3:N:368:VAL:HG23	1.74	0.69
3:N:845:ASN:HB2	3:N:848:GLU:CB	2.22	0.69
5:P:276:ARG:O	5:P:280:GLN:HG2	1.91	0.69
5:P:321:ILE:HG13	5:P:332:PHE:HE1	1.56	0.69
2:C:72:ARG:O	2:C:94:LEU:HD12	1.93	0.69
2:C:926:PHE:CE2	2:C:960:GLU:HG3	2.21	0.69
3:D:119:SER:N	3:D:123:LEU:HD12	2.07	0.69
3:D:264:LEU:HB2	3:D:267:GLY:N	2.07	0.69
3:D:527:MET:SD	3:D:537:THR:HG23	2.34	0.69
3:D:916:TYR:CZ	3:D:920:LEU:HD11	2.28	0.69
3:D:930:LEU:O	3:D:934:LEU:HG	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.75	0.69
2:M:41:ASN:HD22	2:M:46:ALA:HB2	1.58	0.69
2:M:230:ARG:HE	2:M:233:GLU:CG	1.95	0.69
2:M:327:HIS:HB3	2:M:330:ASN:HD22	1.58	0.69
2:M:439:CYS:CB	2:M:541:SER:HB3	2.22	0.69
2:M:774:LEU:HD13	2:M:775:ARG:N	2.07	0.69
3:N:647:ARG:O	3:N:650:LEU:HB3	1.92	0.69
3:N:858:VAL:HG12	3:N:859:ASP:H	1.55	0.69
3:N:1405:GLU:CD	3:N:1406:ARG:H	1.96	0.69
5:P:159:ILE:HG22	5:P:163:LEU:HD11	1.74	0.69
5:P:321:ILE:HD11	5:P:329:TYR:N	2.08	0.69
1:B:10:VAL:HG22	1:B:26:GLU:O	1.93	0.68
2:C:3:ILE:O	2:C:3:ILE:HG13	1.93	0.68
2:C:512:ARG:HH11	2:C:524:VAL:HA	1.58	0.68
5:F:291:ILE:HA	5:F:294:ALA:HB3	1.75	0.68
1:L:112:ARG:NH1	1:L:112:ARG:HB3	2.08	0.68
2:M:722:ILE:HD11	2:M:805:ARG:NH2	2.08	0.68
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.08	0.68
2:M:1096:ALA:O	2:M:1097:LEU:HD23	1.93	0.68
3:N:127:LEU:CD2	3:N:461:ILE:HD11	2.22	0.68
3:N:298:VAL:HB	3:N:300:LYS:HE3	1.75	0.68
3:N:673:ALA:HA	3:N:676:MET:HB3	1.74	0.68
3:N:1114:THR:HG21	3:N:1193:THR:O	1.93	0.68
1:B:143:ARG:HD3	1:B:144:VAL:N	2.09	0.68
2:C:145:GLY:HA3	2:C:276:LYS:HD2	1.74	0.68
2:C:164:PRO:HD2	2:C:170:PRO:O	1.92	0.68
2:C:1009:SER:HB3	3:D:651:GLU:OE2	1.93	0.68
2:C:1101:THR:O	2:C:1102:LEU:HD23	1.93	0.68
3:D:640:HIS:HB2	3:D:764:LEU:HD11	1.76	0.68
3:D:1367:HIS:HA	3:D:1370:ILE:HD12	1.74	0.68
5:F:364:ARG:O	5:F:368:VAL:HG13	1.93	0.68
2:M:230:ARG:HD3	2:M:230:ARG:N	2.08	0.68
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.92	0.68
2:C:139:GLN:O	2:C:333:ILE:HD12	1.93	0.68
2:C:269:LEU:HA	2:C:288:ARG:HB2	1.75	0.68
2:C:438:ILE:HG23	2:C:453:THR:OG1	1.94	0.68
3:D:107:ASP:O	3:D:110:SER:HA	1.94	0.68
3:D:127:LEU:HD23	3:D:128:TYR:H	1.56	0.68
3:D:680:GLN:HA	3:D:683:ILE:HD12	1.75	0.68
3:D:907:GLU:O	3:D:911:LEU:HG	1.93	0.68
5:F:373:LYS:HD3	5:F:379:ARG:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:LYS:NZ	1:K:28:LEU:C	2.47	0.68
2:M:144:PRO:HB3	2:M:163:ILE:O	1.93	0.68
2:M:260:LEU:HD12	2:M:288:ARG:HG2	1.75	0.68
2:M:299:LYS:HE2	2:M:301:GLU:CG	2.23	0.68
2:M:739:GLU:OE1	2:M:739:GLU:HA	1.93	0.68
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.74	0.68
2:M:904:PRO:HD2	2:M:908:GLY:CA	2.23	0.68
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.75	0.68
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.75	0.68
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.74	0.68
3:N:990:ASP:HA	3:N:993:LEU:CD1	2.23	0.68
2:C:54:ILE:HD13	2:C:355:VAL:HG11	1.75	0.68
2:C:289:THR:HG22	2:C:290:LEU:HG	1.75	0.68
2:C:304:LEU:CB	2:C:305:PRO:HD3	2.16	0.68
3:D:210:ARG:HB2	3:D:389:GLU:CG	2.24	0.68
3:D:794:GLN:OE1	3:D:794:GLN:HA	1.93	0.68
3:D:1099:VAL:HG12	10:D:1529:NE6:H14B	1.75	0.68
4:E:19:LEU:O	4:E:23:VAL:HG23	1.93	0.68
1:L:85:LEU:HD12	1:L:86:VAL:H	1.57	0.68
2:M:292:ARG:HE	2:M:295:ASP:CB	2.05	0.68
3:N:583:ASP:HB2	3:N:604:THR:OG1	1.93	0.68
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.76	0.68
3:N:1311:LEU:HD12	3:N:1312:LEU:H	1.57	0.68
2:C:409:ARG:NH2	2:C:452:ILE:HG21	2.07	0.68
2:C:471:TYR:CZ	2:C:496:ILE:HD13	2.28	0.68
2:C:690:ILE:HG23	2:C:694:LEU:HD12	1.75	0.68
2:C:773:LEU:HG	2:C:774:LEU:N	2.07	0.68
3:D:227:LEU:CD1	3:D:326:GLU:HA	2.21	0.68
1:K:12:THR:CA	1:L:229:GLN:HB3	2.16	0.68
3:N:188:GLY:H	3:N:198:ARG:HA	1.57	0.68
3:N:260:GLU:OE1	3:N:273:ARG:HG3	1.93	0.68
3:N:864:VAL:HG12	3:N:865:THR:N	2.07	0.68
3:N:1041:LEU:HD11	3:N:1058:ARG:HA	1.76	0.68
3:N:1126:ASP:CG	3:N:1129:THR:HA	2.13	0.68
3:N:1460:ILE:HG13	3:N:1461:GLY:H	1.57	0.68
1:B:100:LEU:HD12	1:B:140:MET:O	1.94	0.68
2:C:178:PRO:O	2:C:180:GLY:N	2.26	0.68
2:C:545:ASN:O	2:C:581:THR:HG21	1.93	0.68
3:D:546:ARG:HH21	3:D:577:ALA:HA	1.57	0.68
3:D:548:ILE:CG2	3:D:552:ASN:HD21	2.07	0.68
3:D:812:ALA:O	3:D:814:ALA:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1122:LEU:O	3:D:1134:LEU:HD12	1.94	0.68
2:M:72:ARG:HG2	2:M:95:TYR:CB	2.17	0.68
3:N:8:VAL:HG13	3:N:1434:TRP:CH2	2.29	0.68
3:N:29:PRO:HG3	3:N:548:ILE:HB	1.76	0.68
3:N:96:ALA:HB3	3:N:554:LEU:CD2	2.24	0.68
3:N:132:TYR:N	3:N:456:MET:HE3	2.09	0.68
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.24	0.68
3:N:1009:LYS:O	3:N:1013:GLU:HG2	1.93	0.68
5:P:78:SER:O	5:P:80:PRO:HD3	1.94	0.68
2:C:205:GLU:N	2:C:209:ARG:HH11	1.92	0.68
2:C:454:SER:HB3	2:C:541:SER:HB2	1.76	0.68
2:C:1058:ASP:OD2	2:C:1084:SER:HB3	1.93	0.68
3:D:301:GLY:C	3:D:303:PRO:HD2	2.14	0.68
3:D:407:VAL:HG22	3:D:408:GLU:N	2.09	0.68
2:M:380:ALA:O	2:M:384:GLU:N	2.26	0.68
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.24	0.68
2:M:889:HIS:ND1	2:M:970:GLY:HA3	2.08	0.68
3:N:400:VAL:HG22	3:N:402:PRO:HD3	1.74	0.68
3:N:701:LEU:O	3:N:702:LEU:HD23	1.94	0.68
1:B:58:ILE:HD13	1:B:60:ASP:H	1.58	0.68
2:C:153:ALA:O	2:C:155:PRO:HD3	1.94	0.68
2:C:768:THR:HG22	2:C:770:GLU:H	1.58	0.68
3:D:554:LEU:CA	3:D:557:LEU:HD12	2.20	0.68
3:D:1216:SER:CB	4:E:16:LYS:H	2.06	0.68
5:F:118:GLU:C	5:F:120:THR:H	1.97	0.68
1:K:68:ILE:HG23	1:K:69:PRO:HD2	1.76	0.68
1:L:28:LEU:HD11	1:L:36:LEU:HD12	1.74	0.68
2:M:773:LEU:HD11	2:M:777:ILE:HD11	1.76	0.68
2:M:964:LYS:O	2:M:968:LEU:HG	1.94	0.68
3:N:142:LEU:HB3	3:N:146:PRO:CA	2.21	0.68
3:N:181:ASP:C	3:N:183:GLU:H	1.97	0.68
5:P:142:ARG:CD	5:P:145:PRO:HA	2.24	0.68
2:C:264:PRO:HB2	2:C:289:THR:CG2	2.23	0.68
2:C:1006:HIS:HA	2:C:1027:PHE:CZ	2.29	0.68
2:C:1046:ALA:CB	3:D:1472:ILE:HB	2.24	0.68
3:D:204:LEU:HD12	3:D:205:TYR:H	1.58	0.68
3:D:482:LYS:HA	3:D:489:ARG:HD2	1.75	0.68
3:D:796:ARG:C	3:D:797:LYS:HG2	2.13	0.68
5:F:265:VAL:CA	5:F:268:ILE:HD12	2.23	0.68
5:F:292:ALA:O	5:F:299:TRP:HB2	1.93	0.68
2:M:230:ARG:HG2	2:M:233:GLU:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:341:THR:O	2:M:344:PHE:HB3	1.93	0.68
3:N:837:GLY:HA2	3:N:841:TYR:CD1	2.29	0.68
2:C:59:LYS:H	2:C:59:LYS:CD	2.01	0.68
2:C:774:LEU:HD11	5:F:422:LEU:HD23	1.76	0.68
3:D:128:TYR:CE2	3:D:575:GLN:NE2	2.62	0.68
5:F:107:GLU:OE1	5:F:230:LYS:HE3	1.94	0.68
5:F:173:TYR:HA	5:F:176:ILE:HD12	1.76	0.68
2:M:12:VAL:HG23	2:M:13:ILE:HG23	1.76	0.68
2:M:1014:SER:HB3	2:M:1017:THR:OG1	1.94	0.68
3:N:812:ALA:CB	3:N:816:HIS:HB2	2.24	0.68
3:N:819:GLY:HA2	3:N:822:ALA:HB3	1.76	0.68
3:N:965:GLU:HG3	3:N:969:ARG:NH2	2.01	0.68
5:P:300:ASP:O	5:P:304:VAL:HG23	1.93	0.68
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.09	0.67
3:D:154:THR:O	3:D:157:GLU:HB2	1.94	0.67
3:D:186:VAL:HG12	3:D:187:LYS:N	2.08	0.67
3:D:237:LYS:CB	3:D:238:PRO:HD2	2.16	0.67
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.75	0.67
3:D:1080:GLY:O	3:D:1084:THR:HG22	1.93	0.67
1:K:138:LEU:HD12	1:K:139:ASN:H	1.59	0.67
2:M:203:ASP:HB2	2:M:228:ALA:O	1.94	0.67
2:M:1007:ALA:HA	3:N:627:GLY:HA2	1.75	0.67
3:N:219:GLU:HB3	3:N:337:LEU:HD12	1.76	0.67
3:N:693:GLU:HA	4:O:48:MET:CE	2.23	0.67
3:N:983:LEU:HD22	3:N:987:GLU:HB3	1.76	0.67
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	1.92	0.67
3:N:1498:ALA:HB3	4:O:84:ARG:NE	2.09	0.67
2:C:313:LEU:C	2:C:315:ALA:H	1.98	0.67
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.25	0.67
3:D:629:SER:C	3:D:744:GLN:HG2	2.15	0.67
2:M:66:LEU:HA	2:M:99:GLN:O	1.94	0.67
2:M:254:VAL:HB	2:M:258:TYR:CZ	2.29	0.67
2:M:690:ILE:O	2:M:853:LEU:N	2.21	0.67
3:N:82:LYS:H	3:N:82:LYS:HD2	1.59	0.67
3:N:85:VAL:HG22	3:N:89:ARG:HG3	1.75	0.67
3:N:130:SER:N	3:N:568:ARG:NH2	2.43	0.67
3:N:287:GLY:HA3	3:N:311:LEU:HA	1.76	0.67
3:N:623:VAL:CG1	3:N:624:ASP:N	2.57	0.67
3:N:1496:GLU:HA	3:N:1499:ARG:CB	2.23	0.67
2:C:194:VAL:HG22	2:C:221:LEU:HG	1.75	0.67
2:C:694:LEU:HD21	2:C:868:ASP:CB	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:135:LEU:HD23	3:D:135:LEU:H	1.57	0.67
3:D:238:PRO:HB3	3:D:317:VAL:C	2.14	0.67
3:D:906:GLN:HB3	3:D:911:LEU:HD21	1.77	0.67
3:D:947:ILE:HG23	3:D:947:ILE:O	1.93	0.67
3:D:1016:PRO:HA	3:D:1021:TYR:CD1	2.29	0.67
5:F:126:LEU:O	5:F:129:GLU:HB3	1.93	0.67
2:M:205:GLU:O	2:M:209:ARG:HB2	1.95	0.67
3:N:223:LEU:O	3:N:332:TYR:HA	1.94	0.67
3:N:230:TRP:CZ2	3:N:233:LYS:HE3	2.28	0.67
5:P:407:LYS:O	5:P:411:HIS:HB3	1.94	0.67
2:C:710:ILE:HG22	2:C:823:VAL:HB	1.75	0.67
2:C:1104:GLU:H	2:C:1104:GLU:CD	1.98	0.67
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.77	0.67
3:D:534:ARG:HH21	5:F:313:GLU:CB	2.00	0.67
3:D:806:PHE:CA	3:D:809:PRO:HD2	2.24	0.67
3:D:1015:TYR:N	3:D:1016:PRO:HD3	2.09	0.67
1:L:213:GLN:O	1:L:217:ILE:HG13	1.95	0.67
1:L:226:SER:O	1:L:228:PRO:HD3	1.93	0.67
2:M:958:THR:CG2	2:M:961:GLU:HB2	2.22	0.67
3:N:352:ASN:O	3:N:368:VAL:HG13	1.93	0.67
3:N:371:ILE:HG13	3:N:372:ASP:H	1.57	0.67
3:N:401:TYR:O	3:N:444:VAL:HG22	1.95	0.67
3:N:931:LEU:CA	3:N:934:LEU:HD12	2.23	0.67
5:P:419:ARG:O	5:P:421:PHE:N	2.27	0.67
2:C:37:GLU:HG2	2:C:71:TYR:CE2	2.29	0.67
2:C:1038:TRP:CH2	3:D:1096:ARG:HA	2.29	0.67
3:D:133:ILE:HG22	3:D:455:ARG:O	1.95	0.67
3:D:440:VAL:CG2	3:D:441:ARG:H	2.05	0.67
3:D:631:ILE:HG12	3:D:743:ASP:O	1.95	0.67
3:D:1337:GLU:OE1	3:D:1337:GLU:N	2.26	0.67
5:F:413:SER:CB	5:F:414:ARG:HH21	2.07	0.67
2:M:94:LEU:O	2:M:114:PHE:HA	1.94	0.67
2:M:95:TYR:CG	2:M:114:PHE:HB3	2.29	0.67
2:M:773:LEU:CD2	5:P:354:LEU:HD22	2.24	0.67
3:N:1029:ARG:HH11	3:N:1029:ARG:HG3	1.58	0.67
3:N:1397:LYS:HZ3	3:N:1432:LYS:HD2	1.58	0.67
5:P:159:ILE:O	5:P:162:LYS:HB2	1.95	0.67
2:C:175:GLU:C	2:C:183:SER:HB2	2.15	0.67
2:C:876:VAL:HA	2:C:881:ASN:HD21	1.60	0.67
3:D:105:VAL:HA	3:D:110:SER:OG	1.94	0.67
3:D:258:VAL:CB	3:D:273:ARG:HB2	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:260:GLU:H	3:D:270:LEU:HD12	1.58	0.67
3:D:563:PRO:O	3:D:566:ILE:HG12	1.95	0.67
3:D:654:LYS:HE2	3:D:658:LEU:HD11	1.75	0.67
3:D:1498:ALA:HB2	4:E:87:LYS:NZ	2.10	0.67
4:E:7:ASP:HA	4:E:10:PHE:CD1	2.30	0.67
5:F:314:PRO:HG2	5:F:315:VAL:H	1.60	0.67
1:K:188:GLN:HG3	1:K:189:ARG:N	2.05	0.67
1:L:32:PHE:HA	1:L:35:THR:HB	1.76	0.67
1:L:68:ILE:HD12	1:L:71:VAL:CG1	2.24	0.67
2:M:37:GLU:HG2	2:M:71:TYR:HE2	1.58	0.67
2:M:918:LEU:HD12	2:M:968:LEU:HA	1.76	0.67
2:M:1102:LEU:O	3:N:5:VAL:HA	1.93	0.67
3:N:438:ASP:HA	3:N:445:ARG:NH2	2.09	0.67
3:N:572:ARG:HH12	5:P:84:TYR:N	1.93	0.67
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.77	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.77	0.67
5:P:77:THR:C	5:P:79:ASP:H	1.97	0.67
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.77	0.67
3:D:60:CYS:SG	3:D:76:CYS:HB3	2.34	0.67
3:D:109:PRO:HB2	3:D:114:THR:OG1	1.93	0.67
3:D:563:PRO:HD2	3:D:566:ILE:HD11	1.77	0.67
3:D:1033:GLN:O	3:D:1037:GLN:HG3	1.93	0.67
2:M:254:VAL:HB	2:M:258:TYR:CE1	2.29	0.67
2:M:397:GLU:N	2:M:633:GLN:NE2	2.39	0.67
3:N:421:LEU:CG	3:N:428:LYS:HA	2.13	0.67
5:P:333:ILE:H	5:P:333:ILE:CD1	2.08	0.67
1:A:118:ALA:O	1:A:120:VAL:HG23	1.95	0.67
3:D:234:GLU:C	3:D:236:TYR:H	1.98	0.67
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.10	0.67
3:D:1383:ASP:HB3	3:D:1416:ALA:N	2.05	0.67
4:E:70:THR:C	4:E:72:ARG:H	1.98	0.67
1:K:41:ARG:HG2	1:K:45:LEU:HD11	1.77	0.67
3:N:79:GLU:HG2	3:N:80:VAL:N	2.09	0.67
3:N:249:TYR:CE1	3:N:330:THR:HG21	2.29	0.67
3:N:593:ASN:HB3	3:N:594:PRO:HD3	1.77	0.67
3:N:1069:GLU:HA	3:N:1072:ILE:CD1	2.25	0.67
3:N:1106:VAL:HG13	3:N:1219:GLU:O	1.95	0.67
3:N:1337:GLU:OE1	3:N:1337:GLU:N	2.27	0.67
1:B:208:LEU:HG	1:B:209:GLU:N	2.09	0.67
2:C:79:PRO:HG2	2:C:82:GLU:CB	2.25	0.67
2:C:474:VAL:HG12	2:C:530:GLU:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:762:LYS:HB2	2:C:786:LYS:HD2	1.77	0.67
2:C:857:ASP:CB	2:C:978:ARG:HG2	2.25	0.67
3:D:217:LYS:HB2	3:D:339:TRP:NE1	2.09	0.67
3:D:297:ILE:HD13	3:D:298:VAL:CG2	2.16	0.67
3:D:334:THR:C	3:D:335:LEU:HD12	2.15	0.67
3:D:1398:TRP:N	3:D:1398:TRP:CE3	2.61	0.67
4:E:6:ILE:HG23	4:E:7:ASP:H	1.60	0.67
4:E:8:LYS:O	4:E:12:MET:HG3	1.95	0.67
2:M:670:GLN:O	2:M:672:VAL:HG12	1.95	0.67
3:N:1033:GLN:CD	3:N:1033:GLN:N	2.41	0.67
3:D:408:GLU:HA	3:D:421:LEU:O	1.94	0.67
1:K:41:ARG:O	1:K:45:LEU:HG	1.95	0.67
2:M:605:LYS:HB3	2:M:610:ARG:NH2	2.10	0.67
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.10	0.67
2:C:1089:VAL:HA	2:C:1092:LEU:HD12	1.77	0.66
3:D:127:LEU:CD2	3:D:128:TYR:N	2.57	0.66
3:D:430:ASP:N	3:D:430:ASP:OD1	2.28	0.66
3:D:520:LEU:HD23	3:D:525:ARG:HB3	1.77	0.66
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.76	0.66
3:D:819:GLY:CA	3:D:824:ASN:HD22	2.08	0.66
5:F:385:GLU:HA	5:F:388:ALA:CB	2.23	0.66
3:N:141:ILE:HD12	3:N:450:TYR:H	1.59	0.66
3:N:264:LEU:HD22	3:N:316:GLN:HE21	1.60	0.66
3:N:711:LEU:HD22	3:N:778:LEU:CD2	2.25	0.66
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.94	0.66
2:C:93:PRO:HA	2:C:117:HIS:HB3	1.77	0.66
3:D:14:SER:HB2	3:D:17:LYS:HB2	1.77	0.66
3:D:317:VAL:HG23	3:D:338:GLU:C	2.16	0.66
3:D:592:THR:HG21	3:D:598:ARG:HH12	1.59	0.66
3:D:644:LEU:C	3:D:721:VAL:HG22	2.16	0.66
5:F:340:SER:OG	5:F:342:VAL:HB	1.95	0.66
1:K:199:ILE:HB	1:K:207:PRO:HB3	1.76	0.66
2:M:577:PRO:HA	2:M:671:ASN:OD1	1.96	0.66
3:N:262:LYS:O	3:N:268:ALA:HA	1.95	0.66
3:N:1031:ASN:CG	3:N:1034:GLN:HG3	2.14	0.66
3:N:1098:LEU:HD12	3:N:1098:LEU:N	2.04	0.66
3:N:1269:LYS:C	3:N:1271:LYS:H	1.97	0.66
3:N:1424:VAL:HG23	3:N:1425:THR:N	2.09	0.66
1:A:10:VAL:N	1:A:26:GLU:O	2.28	0.66
1:A:42:ARG:NH1	1:B:34:VAL:HB	2.10	0.66
2:C:200:LEU:HD22	2:C:300:ASP:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:219:GLN:C	2:C:221:LEU:H	1.98	0.66
2:C:367:LEU:CG	2:C:372:LEU:HD21	2.26	0.66
3:D:245:LEU:N	3:D:246:PRO:HD3	2.09	0.66
3:D:1083:ASP:HB2	3:D:1239:ARG:CZ	2.25	0.66
5:F:164:LYS:HA	5:F:171:LYS:HE3	1.76	0.66
5:F:321:ILE:HG22	5:F:322:GLY:N	2.09	0.66
5:F:347:GLN:O	5:F:350:LEU:HB3	1.96	0.66
3:N:128:TYR:H	3:N:128:TYR:HD2	1.42	0.66
3:N:323:GLU:CD	3:N:334:THR:HB	2.15	0.66
3:N:1112:CYS:H	3:N:1201:CYS:CB	2.07	0.66
3:N:1237:THR:O	3:N:1255:GLY:HA3	1.96	0.66
3:N:1489:GLN:HA	3:N:1492:LEU:HD12	1.76	0.66
5:P:83:GLN:O	5:P:86:HIS:ND1	2.26	0.66
2:C:402:SER:HA	2:C:566:THR:HG23	1.77	0.66
2:C:415:PRO:HB2	2:C:418:LEU:CB	2.23	0.66
3:D:264:LEU:HD12	3:D:267:GLY:HA3	1.76	0.66
3:D:736:PHE:O	3:D:738:ALA:N	2.29	0.66
5:F:104:ARG:HG3	5:F:105:LYS:N	2.09	0.66
2:M:349:ALA:O	2:M:353:ARG:HG3	1.95	0.66
2:M:498:GLN:HB2	2:M:514:VAL:HG23	1.76	0.66
2:M:511:GLU:O	2:M:525:SER:HA	1.96	0.66
3:N:206:ARG:HG3	3:N:207:PHE:N	2.11	0.66
3:N:253:ALA:H	3:N:301:GLY:CA	2.05	0.66
3:N:828:LYS:HD3	3:N:828:LYS:H	1.60	0.66
3:N:1384:PRO:HB3	3:N:1387:SER:O	1.95	0.66
1:B:30:ARG:HA	1:B:193:ASP:OD1	1.95	0.66
2:C:20:GLU:O	2:C:23:VAL:HG22	1.96	0.66
2:C:230:ARG:O	2:C:233:GLU:HG3	1.95	0.66
3:D:175:VAL:CG1	3:D:192:ALA:HB1	2.25	0.66
3:D:342:PRO:O	3:D:343:LYS:HG3	1.95	0.66
3:D:367:ILE:HG22	3:D:368:VAL:HG23	1.78	0.66
3:D:629:SER:HA	3:D:744:GLN:HE21	1.59	0.66
3:D:1094:LEU:HD21	3:D:1229:ILE:HG22	1.78	0.66
5:F:279:GLN:HA	5:F:284:ARG:O	1.96	0.66
5:F:396:ARG:HA	5:F:399:GLN:NE2	2.09	0.66
3:N:98:PRO:HA	3:N:514:LEU:O	1.96	0.66
3:N:252:ARG:CZ	3:N:300:LYS:HG2	2.26	0.66
3:N:455:ARG:HB2	3:N:460:ALA:HB2	1.76	0.66
3:N:1103:HIS:CD2	3:N:1462:LEU:H	2.13	0.66
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.10	0.66
2:C:110:GLU:CD	2:C:369:PRO:HB3	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:186:VAL:CG2	2:C:187:ASN:N	2.50	0.66
2:C:195:LEU:CB	2:C:238:LEU:HD21	2.23	0.66
2:C:292:ARG:HE	2:C:295:ASP:HB3	1.60	0.66
2:C:988:VAL:CG1	3:D:948:THR:HB	2.23	0.66
3:D:661:MET:SD	3:D:673:ALA:HB1	2.35	0.66
3:D:1107:VAL:HG21	3:D:1219:GLU:HB3	1.77	0.66
3:D:1121:PRO:HD3	3:D:1346:ARG:HH21	1.61	0.66
3:D:1171:VAL:HG12	3:D:1175:ILE:HD11	1.75	0.66
2:M:290:LEU:CD2	2:M:302:VAL:HG21	2.26	0.66
2:M:909:ALA:HB1	2:M:914:ILE:CD1	2.24	0.66
3:N:876:SER:OG	3:N:879:ARG:HG2	1.95	0.66
3:N:939:PHE:O	3:N:942:SER:N	2.29	0.66
3:N:1406:ARG:HD3	3:N:1412:LYS:HZ3	1.57	0.66
4:O:46:PRO:O	4:O:56:ASP:HA	1.96	0.66
2:C:867:VAL:HG23	2:C:868:ASP:N	2.09	0.66
3:D:250:LEU:HD11	3:D:304:LEU:CD2	2.25	0.66
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.11	0.66
5:F:365:GLU:O	5:F:368:VAL:HG22	1.94	0.66
1:L:124:ASN:ND2	1:L:127:LEU:HD22	2.11	0.66
2:M:87:ASP:HA	2:M:131:GLY:HA3	1.76	0.66
3:N:99:ALA:O	3:N:514:LEU:N	2.28	0.66
3:N:154:THR:HG22	3:N:157:GLU:HG3	1.76	0.66
3:N:244:GLU:O	3:N:246:PRO:CD	2.38	0.66
3:N:568:ARG:HA	3:N:571:LYS:HD2	1.78	0.66
3:N:812:ALA:CA	3:N:816:HIS:HB2	2.26	0.66
3:N:989:TYR:HA	3:N:992:ILE:HD12	1.77	0.66
2:C:136:ILE:HD13	2:C:392:SER:HA	1.76	0.66
2:C:162:ILE:HD12	2:C:172:ILE:CD1	2.26	0.66
3:D:82:LYS:H	3:D:82:LYS:HD2	1.61	0.66
3:D:83:SER:OG	5:F:337:HIS:NE2	2.29	0.66
3:D:175:VAL:HG13	3:D:193:PRO:HD2	1.76	0.66
3:D:219:GLU:HG2	3:D:220:ARG:H	1.59	0.66
3:D:327:GLU:O	3:D:327:GLU:HG3	1.95	0.66
3:D:414:ARG:HD3	3:D:451:ASP:OD1	1.95	0.66
3:D:711:LEU:HD22	3:D:778:LEU:HD23	1.78	0.66
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.60	0.66
1:K:186:LEU:HD23	1:K:188:GLN:NE2	2.10	0.66
1:L:104:GLU:CB	1:L:137:ARG:HG3	2.22	0.66
2:M:194:VAL:HG21	2:M:221:LEU:O	1.94	0.66
2:M:595:LEU:HD21	2:M:639:GLN:NE2	2.10	0.66
2:M:988:VAL:HG12	3:N:948:THR:OG1	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:137:PRO:CG	3:N:138:LYS:H	2.09	0.66
3:N:149:LYS:HG2	3:N:150:ARG:N	2.10	0.66
3:N:154:THR:O	3:N:157:GLU:HB2	1.95	0.66
3:N:179:VAL:C	3:N:181:ASP:H	1.99	0.66
3:N:264:LEU:HB2	3:N:267:GLY:N	2.11	0.66
3:N:623:VAL:HG12	3:N:624:ASP:N	2.10	0.66
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.76	0.66
5:P:111:GLU:HA	5:P:114:LYS:HD2	1.77	0.66
5:P:288:TYR:CE1	5:P:305:GLU:HB2	2.31	0.66
2:C:672:VAL:HG23	2:C:868:ASP:OD2	1.95	0.66
3:D:133:ILE:HG23	3:D:456:MET:CG	2.25	0.66
3:D:172:PRO:HB2	3:D:175:VAL:CG2	2.26	0.66
3:D:258:VAL:H	3:D:273:ARG:N	1.93	0.66
3:D:397:LYS:HE3	3:D:448:GLU:OE2	1.96	0.66
3:D:1103:HIS:HD2	3:D:1463:LYS:H	1.43	0.66
5:F:371:LEU:HD23	5:F:375:LEU:HD11	1.75	0.66
2:M:397:GLU:HG2	2:M:632:ASN:HB2	1.77	0.66
2:M:403:SER:O	2:M:406:HIS:HB3	1.96	0.66
2:M:720:GLU:HB3	2:M:760:SER:HB3	1.78	0.66
3:N:674:ARG:NH2	5:P:342:VAL:HG22	2.11	0.66
3:N:887:ALA:HA	3:N:890:VAL:HG22	1.77	0.66
3:N:1124:GLN:N	3:N:1133:ARG:O	2.27	0.66
3:N:1464:GLU:O	3:N:1467:ILE:HG22	1.95	0.66
1:A:143:ARG:NH1	1:A:158:ILE:HG23	2.11	0.66
1:B:239:ALA:O	1:B:241:GLU:N	2.28	0.66
2:C:38:LYS:CG	2:C:39:ARG:H	2.07	0.66
2:C:191:PHE:CE2	2:C:196:LEU:HD21	2.30	0.66
2:C:243:ARG:CG	2:C:244:PRO:HA	2.26	0.66
2:C:436:GLY:HA2	2:C:539:VAL:HA	1.76	0.66
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.25	0.66
2:C:754:ILE:HG12	2:C:791:ARG:CD	2.26	0.66
3:D:109:PRO:HB2	3:D:114:THR:HG21	1.76	0.66
3:D:248:PRO:HA	3:D:308:LYS:NZ	2.10	0.66
3:D:259:VAL:HG23	3:D:270:LEU:HD13	1.78	0.66
3:D:474:GLU:HG2	3:D:475:LYS:N	2.10	0.66
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.77	0.66
3:D:1399:ASP:O	3:D:1403:LEU:HB3	1.96	0.66
1:L:156:HIS:CG	1:L:156:HIS:O	2.49	0.66
2:M:232:GLU:O	2:M:235:LEU:HB3	1.96	0.66
2:M:419:THR:HG22	2:M:420:ARG:N	2.11	0.66
2:M:428:ARG:CZ	2:M:451:LEU:HD21	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:876:VAL:H	2:M:877:PRO:HD2	1.60	0.66
3:N:592:THR:HG21	3:N:598:ARG:HH12	1.60	0.66
3:N:614:PHE:HA	3:N:617:ASN:HD22	1.60	0.66
3:N:1267:ARG:NH1	3:N:1267:ARG:CB	2.54	0.66
2:C:402:SER:HA	2:C:566:THR:CG2	2.26	0.65
2:C:674:VAL:HA	2:C:869:VAL:HG13	1.78	0.65
2:C:724:ARG:HH21	2:C:734:LEU:CB	2.09	0.65
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.31	0.65
2:C:987:ILE:HA	3:D:948:THR:CG2	2.25	0.65
3:D:365:ASP:O	3:D:379:ALA:HB2	1.96	0.65
3:D:455:ARG:HD3	3:D:459:GLU:CD	2.16	0.65
3:D:545:ARG:HB3	3:D:545:ARG:HH11	1.61	0.65
3:D:1397:LYS:HB2	3:D:1398:TRP:CE3	2.31	0.65
1:L:161:ARG:H	1:L:164:ALA:HB2	1.60	0.65
2:M:649:VAL:HG13	2:M:650:ARG:NH2	2.10	0.65
3:N:133:ILE:HD13	3:N:456:MET:HE1	1.78	0.65
3:N:153:LEU:HD21	3:N:158:TYR:HA	1.78	0.65
3:N:207:PHE:CE1	5:P:98:GLU:HG3	2.31	0.65
3:N:325:GLU:HG3	3:N:325:GLU:O	1.96	0.65
3:N:553:ARG:HH11	5:P:214:GLN:CB	2.08	0.65
3:N:565:ILE:HG12	3:N:566:ILE:N	2.11	0.65
5:P:274:THR:HG22	5:P:278:LEU:HD11	1.77	0.65
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.77	0.65
2:C:197:LEU:CD1	2:C:221:LEU:HD11	2.25	0.65
2:C:274:ARG:O	2:C:278:GLU:HB3	1.96	0.65
2:C:712:ALA:HB3	2:C:821:GLU:H	1.61	0.65
2:C:988:VAL:H	3:D:948:THR:HG21	1.61	0.65
3:D:615:ARG:HG3	3:D:616:GLN:N	2.11	0.65
3:D:1102:THR:O	3:D:1222:GLY:HA3	1.96	0.65
3:D:1311:LEU:CD1	3:D:1312:LEU:H	2.09	0.65
5:F:173:TYR:O	5:F:176:ILE:HB	1.96	0.65
1:K:154:GLU:CD	1:K:154:GLU:H	1.98	0.65
2:M:216:GLU:OE2	2:M:217:LEU:HG	1.95	0.65
3:N:22:SER:CB	3:N:92:HIS:ND1	2.59	0.65
3:N:115:LEU:O	3:N:116:LEU:HD23	1.96	0.65
3:N:257:GLY:CA	3:N:274:ARG:HA	2.26	0.65
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.78	0.65
3:N:1085:ALA:CA	3:N:1088:THR:HG22	2.26	0.65
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.10	0.65
4:O:41:GLU:HB2	4:O:42:PRO:CD	2.20	0.65
5:P:392:VAL:CG1	5:P:396:ARG:HB3	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ARG:O	1:B:207:PRO:HD3	1.97	0.65
1:B:69:PRO:O	1:B:71:VAL:HG23	1.95	0.65
1:B:216:GLU:OE2	1:B:220:GLU:HB2	1.97	0.65
2:C:456:ALA:HB1	2:C:538:GLN:O	1.97	0.65
3:D:168:THR:HB	3:D:206:ARG:NH2	2.12	0.65
3:D:356:PRO:HG2	3:D:359:ALA:HB2	1.78	0.65
3:D:403:PHE:CZ	3:D:442:ASN:HB3	2.29	0.65
3:D:539:ASP:HB3	3:D:600:LEU:HB3	1.78	0.65
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.60	0.65
2:M:198:ARG:HA	2:M:202:TYR:O	1.97	0.65
2:M:204:GLN:C	2:M:209:ARG:HD3	2.17	0.65
3:N:315:ARG:H	3:N:315:ARG:HD2	1.60	0.65
3:N:403:PHE:HB2	3:N:423:ASP:OD2	1.96	0.65
3:N:1400:VAL:HB	3:N:1401:GLU:OE1	1.96	0.65
3:N:1468:LEU:CD2	3:N:1469:GLY:N	2.60	0.65
5:P:153:PRO:HG2	5:P:154:LYS:HG3	1.77	0.65
5:P:330:GLY:O	5:P:332:PHE:N	2.30	0.65
1:A:108:GLU:HG2	1:A:109:VAL:H	1.59	0.65
2:C:70:GLU:OE1	2:C:97:ARG:HD3	1.96	0.65
2:C:742:VAL:HG12	2:C:743:VAL:N	2.11	0.65
3:D:166:GLN:O	3:D:167:GLU:HG2	1.96	0.65
3:D:352:ASN:O	3:D:368:VAL:HG13	1.97	0.65
3:D:441:ARG:HD3	3:D:443:VAL:HG21	1.78	0.65
3:D:526:PRO:O	3:D:537:THR:HG22	1.95	0.65
5:F:353:GLU:HA	5:F:356:LYS:HD2	1.79	0.65
2:M:186:VAL:HG13	2:M:187:ASN:N	2.08	0.65
2:M:293:PHE:CD1	2:M:294:GLU:HG3	2.31	0.65
2:M:305:PRO:O	2:M:308:ARG:HG2	1.95	0.65
2:M:542:VAL:HG23	2:M:543:ASN:N	2.06	0.65
2:M:930:LYS:C	2:M:932:GLU:H	2.00	0.65
2:M:1086:ARG:HB3	2:M:1112:PHE:CE2	2.30	0.65
3:N:207:PHE:CE1	5:P:97:GLU:HB2	2.31	0.65
3:N:212:ARG:HD3	3:N:342:PRO:CB	2.26	0.65
5:P:234:LYS:HE2	5:P:236:SER:CB	2.26	0.65
5:P:263:HIS:HA	5:P:266:GLU:OE2	1.97	0.65
1:A:86:VAL:HG13	1:A:123:MET:HB2	1.77	0.65
1:B:74:ASP:HB3	1:B:77:GLU:CB	2.27	0.65
2:C:1:MET:HB3	2:C:898:GLY:O	1.97	0.65
2:C:257:VAL:HG12	2:C:263:ASP:OD1	1.96	0.65
3:D:414:ARG:HD3	3:D:451:ASP:CG	2.17	0.65
3:D:851:LEU:O	3:D:854:ALA:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:881:LEU:HG	3:D:885:ILE:HD11	1.79	0.65
3:D:1083:ASP:HB2	3:D:1239:ARG:NH1	2.12	0.65
3:D:1341:PRO:O	3:D:1344:VAL:HG12	1.97	0.65
3:D:1376:MET:HE1	3:D:1421:LEU:HD13	1.78	0.65
5:F:76:SER:O	5:F:78:SER:N	2.28	0.65
5:F:217:ASN:O	5:F:220:LEU:HB3	1.96	0.65
2:M:203:ASP:O	2:M:207:LEU:HD12	1.96	0.65
2:M:367:LEU:O	2:M:367:LEU:HD23	1.96	0.65
3:N:524:LEU:C	3:N:526:PRO:HD3	2.17	0.65
3:N:1342:GLU:HA	3:N:1345:GLU:OE1	1.97	0.65
1:A:5:LYS:HZ2	1:A:28:LEU:C	2.00	0.65
1:A:186:LEU:HD23	1:A:188:GLN:HE21	1.60	0.65
1:B:137:ARG:HG2	1:B:137:ARG:HH11	1.61	0.65
2:C:370:ALA:HA	2:C:373:VAL:CG2	2.25	0.65
2:C:405:ARG:HD2	2:C:442:GLU:OE2	1.96	0.65
2:C:672:VAL:HG23	2:C:673:LEU:N	2.11	0.65
3:D:288:MET:CE	3:D:307:ALA:HB2	2.26	0.65
3:D:354:VAL:HB	3:D:367:ILE:O	1.97	0.65
3:D:965:GLU:O	3:D:968:ASP:N	2.30	0.65
4:E:42:PRO:HA	4:E:45:ARG:HD2	1.77	0.65
5:F:373:LYS:HB3	5:F:379:ARG:N	2.11	0.65
1:K:41:ARG:NH2	2:M:860:HIS:CD2	2.64	0.65
2:M:435:TYR:HA	3:N:1071:PHE:CE2	2.32	0.65
2:M:498:GLN:OE1	3:N:1067:VAL:HG13	1.95	0.65
3:N:207:PHE:HZ	5:P:98:GLU:HG3	1.62	0.65
2:C:45:GLN:O	2:C:49:ARG:HG3	1.97	0.65
2:C:56:GLU:HB3	2:C:359:MET:SD	2.36	0.65
2:C:205:GLU:O	2:C:209:ARG:HB2	1.96	0.65
3:D:225:LEU:HD12	3:D:333:LEU:CD1	2.26	0.65
3:D:252:ARG:HG3	3:D:300:LYS:C	2.17	0.65
3:D:610:LYS:HZ3	3:D:1442:ASN:H	1.44	0.65
3:D:1098:LEU:CD1	3:D:1098:LEU:H	2.10	0.65
5:F:207:LEU:O	5:F:212:LEU:HD21	1.96	0.65
5:F:280:GLN:CG	5:F:281:GLU:H	1.95	0.65
2:M:151:ASP:HB3	2:M:157:ARG:O	1.97	0.65
2:M:153:ALA:O	2:M:155:PRO:HD3	1.96	0.65
3:N:148:GLU:O	3:N:150:ARG:N	2.29	0.65
3:N:274:ARG:HE	3:N:279:VAL:CG1	2.08	0.65
3:N:1108:ARG:CD	3:N:1199:GLY:HA3	2.26	0.65
4:O:37:ASN:HD22	4:O:37:ASN:N	1.93	0.65
5:P:302:LYS:HD2	5:P:302:LYS:C	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:508:ILE:HD12	2:C:526:PRO:HB3	1.79	0.65
2:C:643:VAL:HG23	2:C:647:GLN:CD	2.17	0.65
2:C:1030:GLN:O	3:D:622:ARG:HA	1.97	0.65
3:D:238:PRO:HD3	3:D:318:ARG:HA	1.77	0.65
3:D:811:GLU:HB2	3:D:816:HIS:ND1	2.11	0.65
3:D:1042:ARG:HG2	3:D:1042:ARG:HH11	1.62	0.65
3:D:1406:ARG:HA	3:D:1412:LYS:HG2	1.78	0.65
1:L:5:LYS:HZ1	1:L:189:ARG:HD2	1.61	0.65
1:L:86:VAL:HG13	1:L:123:MET:HB2	1.78	0.65
3:N:441:ARG:O	3:N:443:VAL:N	2.30	0.65
3:N:1313:VAL:HG22	3:N:1314:LYS:N	2.12	0.65
1:B:101:LEU:HB3	1:B:140:MET:SD	2.37	0.65
3:D:56:TYR:OH	3:D:82:LYS:HE3	1.97	0.65
3:D:245:LEU:HA	3:D:309:GLY:H	1.62	0.65
3:D:249:TYR:CD1	3:D:330:THR:HG21	2.32	0.65
3:D:259:VAL:CA	3:D:270:LEU:HD11	2.27	0.65
3:D:315:ARG:H	3:D:315:ARG:HD2	1.62	0.65
3:D:647:ARG:O	3:D:650:LEU:HB3	1.97	0.65
3:D:673:ALA:HA	3:D:676:MET:HB3	1.78	0.65
5:F:421:PHE:CD2	5:F:422:LEU:N	2.65	0.65
3:N:131:LYS:HB3	3:N:568:ARG:HG2	1.77	0.65
3:N:166:GLN:HA	3:N:395:VAL:O	1.96	0.65
3:N:625:TYR:HB3	3:N:749:VAL:HB	1.79	0.65
3:N:959:GLU:CD	3:N:959:GLU:H	2.00	0.65
3:N:962:GLN:HB3	3:N:966:GLU:OE2	1.96	0.65
5:P:94:LEU:CG	5:P:190:ALA:HB1	2.26	0.65
5:P:367:MET:CB	5:P:371:LEU:HG	2.27	0.65
1:A:83:LYS:HE3	1:A:168:ASP:O	1.96	0.65
2:C:1115:LEU:HB3	3:D:85:VAL:CG2	2.21	0.65
3:D:12:LEU:HD21	3:D:1452:ILE:HD13	1.78	0.65
3:D:128:TYR:HD1	3:D:457:GLY:CA	2.08	0.65
3:D:400:VAL:HG23	3:D:443:VAL:CG1	2.27	0.65
3:D:887:ALA:HA	3:D:890:VAL:CG2	2.27	0.65
2:M:41:ASN:C	2:M:41:ASN:ND2	2.49	0.65
2:M:45:GLN:O	2:M:49:ARG:HG3	1.96	0.65
2:M:914:ILE:HD12	2:M:914:ILE:N	2.11	0.65
3:N:174:GLY:HA2	3:N:389:GLU:CG	2.27	0.65
3:N:544:TYR:O	3:N:547:LEU:HB3	1.97	0.65
3:N:931:LEU:HA	3:N:934:LEU:CD1	2.27	0.65
3:N:972:LEU:N	3:N:972:LEU:HD23	2.12	0.65
3:N:1122:LEU:C	3:N:1135:ARG:HG3	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.97	0.65
3:N:1406:ARG:HG2	3:N:1412:LYS:HD3	1.79	0.65
5:P:413:SER:HB2	5:P:414:ARG:HH21	1.61	0.65
1:B:176:ARG:HG2	1:B:177:VAL:N	2.12	0.64
2:C:328:LEU:HD12	2:C:433:THR:O	1.97	0.64
2:C:425:PHE:HZ	3:D:1239:ARG:NH2	1.94	0.64
2:C:685:GLU:O	2:C:686:ASP:HB2	1.95	0.64
3:D:58:CYS:HB2	3:D:76:CYS:SG	2.37	0.64
3:D:546:ARG:O	3:D:550:ARG:HG3	1.97	0.64
3:D:1403:LEU:C	3:D:1405:GLU:H	2.01	0.64
4:E:70:THR:O	4:E:72:ARG:N	2.30	0.64
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.62	0.64
5:F:271:LEU:HD11	5:F:307:THR:HG21	1.78	0.64
2:M:313:LEU:C	2:M:315:ALA:H	2.00	0.64
2:M:600:ASP:HA	2:M:649:VAL:O	1.97	0.64
3:N:261:LEU:HD22	3:N:268:ALA:O	1.97	0.64
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.79	0.64
3:N:1403:LEU:HB3	3:N:1408:ILE:CD1	2.27	0.64
2:C:836:GLY:O	2:C:848:VAL:HG13	1.97	0.64
2:C:1037:VAL:HG21	10:D:1529:NE6:H9	1.79	0.64
3:D:280:ALA:HB1	3:D:282:TYR:CE1	2.32	0.64
3:D:421:LEU:HB3	3:D:427:VAL:O	1.97	0.64
3:D:659:LYS:HG3	3:D:663:GLU:OE2	1.96	0.64
3:D:1472:ILE:HG23	3:D:1474:ALA:H	1.61	0.64
1:K:89:PHE:HB2	1:K:146:ARG:HH21	1.63	0.64
2:M:172:ILE:HG22	2:M:173:ASP:N	2.12	0.64
2:M:613:VAL:O	2:M:620:LEU:HA	1.97	0.64
2:M:1009:SER:HB3	3:N:651:GLU:CD	2.17	0.64
3:N:149:LYS:HG2	3:N:150:ARG:H	1.63	0.64
3:N:352:ASN:N	3:N:369:ALA:O	2.31	0.64
3:N:537:THR:C	5:P:317:LEU:HG	2.17	0.64
3:N:965:GLU:OE2	3:N:969:ARG:HB3	1.96	0.64
1:A:208:LEU:HG	1:A:209:GLU:N	2.11	0.64
2:C:139:GLN:HB3	2:C:411:SER:HB3	1.80	0.64
2:C:809:GLY:C	2:C:811:PRO:HD2	2.18	0.64
3:D:10:ILE:O	3:D:1454:GLY:HA2	1.97	0.64
3:D:417:PRO:HB3	3:D:429:SER:C	2.18	0.64
3:D:524:LEU:C	3:D:526:PRO:HD3	2.18	0.64
3:D:793:THR:O	3:D:905:PRO:HA	1.96	0.64
3:D:1121:PRO:CD	3:D:1346:ARG:HH21	2.10	0.64
4:E:73:LEU:HD12	4:E:74:VAL:H	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:145:PRO:O	5:F:149:GLU:HB2	1.97	0.64
1:K:33:GLY:HA3	1:K:181:VAL:HG22	1.79	0.64
1:L:170:VAL:HG23	1:L:170:VAL:O	1.96	0.64
2:M:896:PHE:C	2:M:898:GLY:N	2.50	0.64
2:M:1009:SER:HB3	3:N:651:GLU:OE2	1.97	0.64
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.33	0.64
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.79	0.64
3:N:113:GLY:C	3:N:115:LEU:H	2.01	0.64
3:N:225:LEU:HB3	3:N:226:PRO:HD2	1.78	0.64
3:N:699:VAL:HG12	3:N:717:GLN:CG	2.26	0.64
3:N:852:ALA:HB1	3:N:857:ILE:HD11	1.78	0.64
3:N:1114:THR:HB	3:N:1195:GLN:CG	2.27	0.64
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.27	0.64
3:N:1293:PHE:CZ	3:N:1300:SER:HB3	2.32	0.64
3:N:1324:PRO:O	3:N:1325:LEU:HD23	1.98	0.64
5:P:219:GLY:HA3	5:P:246:ALA:CB	2.27	0.64
5:P:299:TRP:CE3	5:P:303:ARG:HD3	2.32	0.64
1:A:56:VAL:HG22	1:A:142:VAL:HA	1.78	0.64
1:A:167:VAL:HG12	1:A:168:ASP:N	2.11	0.64
1:B:68:ILE:HD12	1:B:71:VAL:HB	1.79	0.64
1:B:72:LYS:C	1:B:72:LYS:HD3	2.17	0.64
1:B:82:LEU:O	1:B:85:LEU:HB3	1.97	0.64
2:C:140:ILE:HG23	2:C:410:ILE:CG2	2.27	0.64
2:C:469:THR:HG23	2:C:470:PRO:HD2	1.80	0.64
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.32	0.64
2:C:705:ILE:HD12	2:C:705:ILE:N	2.13	0.64
2:C:815:LEU:HD11	2:C:821:GLU:HA	1.79	0.64
2:C:939:ARG:HD2	2:C:982:PRO:CD	2.28	0.64
3:D:142:LEU:HD23	3:D:146:PRO:CA	2.27	0.64
3:D:212:ARG:HG3	3:D:343:LYS:O	1.98	0.64
3:D:298:VAL:O	3:D:298:VAL:HG12	1.97	0.64
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.79	0.64
3:D:806:PHE:CD1	3:D:809:PRO:HB2	2.31	0.64
3:D:815:ALA:HA	3:D:818:ARG:CD	2.27	0.64
3:D:1333:HIS:O	3:D:1336:LEU:HB3	1.98	0.64
5:F:339:PRO:HB3	5:F:343:ASP:HB2	1.78	0.64
5:F:346:THR:O	5:F:350:LEU:N	2.31	0.64
2:M:71:TYR:HD2	2:M:71:TYR:N	1.95	0.64
2:M:93:PRO:HA	2:M:117:HIS:CB	2.24	0.64
2:M:495:THR:HB	2:M:530:GLU:HG3	1.80	0.64
2:M:672:VAL:CG2	2:M:673:LEU:N	2.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:112:ILE:HG23	3:N:512:MET:SD	2.38	0.64
3:N:818:ARG:O	3:N:822:ALA:N	2.27	0.64
3:N:844:ALA:HB1	3:N:867:ARG:HH11	1.61	0.64
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.13	0.64
3:N:1130:ARG:HH22	3:N:1323:GLN:NE2	1.94	0.64
1:A:206:THR:HB	1:A:209:GLU:CG	2.18	0.64
2:C:693:GLU:HG3	2:C:697:ARG:HH11	1.63	0.64
2:C:878:SER:HA	3:D:1034:GLN:OE1	1.98	0.64
3:D:125:GLN:HE22	3:D:587:ARG:HE	1.45	0.64
3:D:227:LEU:HD22	3:D:328:GLY:C	2.18	0.64
3:D:355:VAL:HG11	3:D:385:VAL:CG2	2.24	0.64
3:D:1031:ASN:N	3:D:1034:GLN:HE21	1.96	0.64
1:K:55:SER:HB3	1:K:166:PRO:HA	1.78	0.64
2:M:41:ASN:O	2:M:46:ALA:HB2	1.97	0.64
3:N:119:SER:HB3	3:N:123:LEU:CG	2.27	0.64
3:N:163:TYR:OH	5:P:186:HIS:HE1	1.81	0.64
3:N:302:GLN:N	3:N:303:PRO:HD2	2.12	0.64
3:N:403:PHE:CD1	3:N:404:GLU:N	2.65	0.64
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.13	0.64
1:A:11:PHE:HD2	1:B:227:ASN:O	1.80	0.64
2:C:37:GLU:OE2	2:C:70:GLU:HB3	1.98	0.64
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.32	0.64
2:C:363:SER:CB	2:C:366:SER:HB3	2.21	0.64
3:D:815:ALA:HA	3:D:818:ARG:HD2	1.79	0.64
3:D:851:LEU:N	3:D:851:LEU:HD23	2.12	0.64
3:D:1396:GLU:O	3:D:1397:LYS:HD3	1.98	0.64
3:D:1406:ARG:HB3	3:D:1412:LYS:HE2	1.79	0.64
5:F:278:LEU:HB3	5:F:286:PRO:HG3	1.80	0.64
5:F:381:HIS:C	5:F:385:GLU:HG3	2.17	0.64
2:M:760:SER:O	2:M:785:VAL:HA	1.98	0.64
2:M:1015:LEU:HA	5:P:335:ASP:HB2	1.78	0.64
3:N:433:GLY:CA	3:N:449:SER:N	2.60	0.64
3:N:807:ALA:N	3:N:809:PRO:HD2	2.12	0.64
2:C:230:ARG:HG3	2:C:230:ARG:NH1	2.12	0.64
2:C:971:LYS:NZ	3:D:950:GLY:HA3	2.13	0.64
3:D:658:LEU:HA	3:D:661:MET:CE	2.17	0.64
5:F:300:ASP:O	5:F:304:VAL:HG23	1.98	0.64
1:K:34:VAL:HG21	2:M:939:ARG:HH21	1.62	0.64
2:M:100:LEU:HD23	2:M:368:THR:HA	1.80	0.64
2:M:191:PHE:CE2	2:M:196:LEU:HD21	2.32	0.64
2:M:649:VAL:CA	2:M:650:ARG:HH21	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.78	0.64
3:N:1114:THR:HB	3:N:1195:GLN:HG3	1.80	0.64
3:N:1434:TRP:O	3:N:1437:ALA:HB3	1.97	0.64
5:P:302:LYS:HD2	5:P:303:ARG:H	1.55	0.64
2:C:549:PHE:CD2	2:C:886:LEU:HB2	2.32	0.64
2:C:897:LEU:O	2:C:899:GLN:HG2	1.98	0.64
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.78	0.64
3:D:260:GLU:H	3:D:270:LEU:CD1	2.10	0.64
3:D:437:VAL:HG11	5:F:175:HIS:CB	2.21	0.64
3:D:574:LEU:O	3:D:578:VAL:HG23	1.98	0.64
3:D:800:LYS:O	3:D:830:ALA:HB3	1.98	0.64
5:F:115:LYS:HD2	5:F:119:ILE:HD11	1.79	0.64
5:F:209:PHE:O	5:F:213:ILE:HG13	1.98	0.64
2:M:63:GLY:H	2:M:103:LYS:CA	2.10	0.64
2:M:317:VAL:N	2:M:318:PRO:CD	2.61	0.64
2:M:317:VAL:O	2:M:317:VAL:HG12	1.98	0.64
2:M:698:ASP:HA	2:M:832:LYS:CE	2.28	0.64
3:N:157:GLU:O	3:N:161:LEU:HG	1.97	0.64
3:N:507:ASN:ND2	3:N:1452:ILE:O	2.31	0.64
3:N:680:GLN:HA	3:N:683:ILE:CD1	2.27	0.64
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.79	0.64
2:C:194:VAL:HA	2:C:197:LEU:CG	2.28	0.64
2:C:380:ALA:C	2:C:384:GLU:HG2	2.18	0.64
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.79	0.64
3:D:826:PRO:O	3:D:829:VAL:HG22	1.97	0.64
3:D:1031:ASN:N	3:D:1034:GLN:NE2	2.44	0.64
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.12	0.64
3:D:1464:GLU:CG	3:D:1465:ASN:H	2.10	0.64
1:K:34:VAL:HB	1:L:42:ARG:NH1	2.12	0.64
2:M:1008:ARG:NH1	2:M:1020:PRO:HB3	2.13	0.64
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.79	0.64
3:N:1464:GLU:CG	3:N:1465:ASN:H	2.10	0.64
4:O:25:LYS:HA	4:O:28:GLN:CD	2.17	0.64
5:P:152:ASP:N	5:P:153:PRO:HD2	2.13	0.64
5:P:370:LYS:O	5:P:375:LEU:N	2.30	0.64
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.63	0.64
2:C:584:GLU:H	2:C:584:GLU:CD	2.00	0.64
3:D:168:THR:HB	3:D:206:ARG:HH22	1.62	0.64
3:D:569:ASN:O	3:D:573:MET:HG3	1.97	0.64
3:D:1310:ARG:HD3	3:D:1327:ARG:HD3	1.78	0.64
4:E:39:VAL:HG11	4:E:72:ARG:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:300:ASP:O	5:F:303:ARG:HB3	1.97	0.64
1:L:76:VAL:HA	1:L:79:ILE:CD1	2.21	0.64
2:M:439:CYS:SG	2:M:441:VAL:HG13	2.38	0.64
2:M:1000:MET:HB2	2:M:1003:ASP:HB2	1.79	0.64
3:N:209:ARG:O	3:N:346:ARG:HA	1.98	0.64
3:N:479:GLU:C	3:N:481:MET:H	2.01	0.64
3:N:656:PHE:HZ	3:N:751:LEU:HD23	1.62	0.64
3:N:761:ILE:HD12	4:O:20:THR:HA	1.80	0.64
3:N:796:ARG:HE	3:N:861:GLN:CB	2.11	0.64
5:P:261:PRO:O	5:P:264:MET:HB2	1.97	0.64
5:P:383:LEU:HD21	5:P:394:ARG:HD3	1.80	0.64
1:B:197:LEU:HD12	1:B:198:ARG:H	1.63	0.63
1:B:208:LEU:O	1:B:211:LEU:HB3	1.98	0.63
2:C:605:LYS:CB	2:C:610:ARG:HH21	2.09	0.63
3:D:676:MET:HG3	3:D:677:LEU:CD2	2.28	0.63
4:E:47:LYS:O	4:E:48:MET:HG3	1.96	0.63
5:F:251:ILE:O	5:F:255:ALA:HB2	1.98	0.63
5:F:305:GLU:O	5:F:308:LEU:HG	1.97	0.63
1:L:47:SER:C	1:L:48:ILE:HD12	2.18	0.63
2:M:56:GLU:O	2:M:64:LEU:HD23	1.98	0.63
2:M:1113:GLU:HG3	2:M:1113:GLU:O	1.97	0.63
3:N:989:TYR:CE1	3:N:993:LEU:HD21	2.33	0.63
5:P:209:PHE:O	5:P:213:ILE:HG13	1.97	0.63
1:A:36:LEU:O	1:A:40:LEU:HD12	1.98	0.63
3:D:109:PRO:HB2	3:D:114:THR:CG2	2.28	0.63
3:D:241:ILE:HG22	3:D:242:LEU:N	2.11	0.63
5:F:292:ALA:HB1	5:F:299:TRP:O	1.98	0.63
1:K:228:PRO:O	1:K:229:GLN:HG3	1.97	0.63
1:L:70:GLY:O	1:L:133:GLU:HG2	1.98	0.63
2:M:48:PHE:CE1	2:M:71:TYR:HB3	2.32	0.63
2:M:243:ARG:CG	2:M:244:PRO:HA	2.24	0.63
2:M:710:ILE:HD13	2:M:790:LEU:HB2	1.79	0.63
2:M:1058:ASP:OD2	2:M:1084:SER:CB	2.45	0.63
3:N:1083:ASP:OD2	3:N:1238:MET:HB3	1.97	0.63
3:N:1367:HIS:O	3:N:1371:VAL:HG23	1.97	0.63
5:P:265:VAL:CA	5:P:268:ILE:HD12	2.25	0.63
2:C:38:LYS:HG3	2:C:39:ARG:N	2.07	0.63
2:C:101:ILE:CG2	2:C:102:HIS:N	2.61	0.63
2:C:144:PRO:HB2	2:C:266:ARG:HB3	1.80	0.63
2:C:676:ILE:HG13	2:C:873:PRO:HG3	1.81	0.63
2:C:855:VAL:O	2:C:858:MET:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1115:LEU:HD13	3:D:85:VAL:CB	2.24	0.63
3:D:154:THR:HG22	3:D:157:GLU:HG3	1.80	0.63
3:D:1108:ARG:HE	3:D:1199:GLY:HA3	1.62	0.63
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.81	0.63
3:D:1206:GLY:O	3:D:1215:VAL:HG12	1.97	0.63
3:D:1381:VAL:HG13	3:D:1389:LEU:HA	1.80	0.63
5:F:322:GLY:O	5:F:324:GLU:HG3	1.97	0.63
2:M:212:GLY:HA3	2:M:218:VAL:HG11	1.80	0.63
2:M:588:VAL:HG23	2:M:589:ARG:N	2.12	0.63
2:M:1035:MET:O	2:M:1038:TRP:HB2	1.97	0.63
2:M:1040:LEU:HD23	3:N:763:MET:CE	2.28	0.63
3:N:186:VAL:HA	3:N:200:ASP:OD2	1.98	0.63
3:N:402:PRO:HA	3:N:443:VAL:HA	1.80	0.63
3:N:402:PRO:CG	3:N:443:VAL:HG22	2.29	0.63
1:A:109:VAL:HB	1:A:130:ALA:H	1.63	0.63
2:C:260:LEU:HD13	2:C:291:ALA:CB	2.28	0.63
2:C:292:ARG:HH21	2:C:295:ASP:CG	2.01	0.63
2:C:1100:GLN:HB3	3:D:9:ARG:HB3	1.80	0.63
3:D:968:ASP:O	3:D:972:LEU:HD23	1.98	0.63
3:D:1486:VAL:HG22	4:E:75:PHE:HB3	1.80	0.63
5:F:413:SER:HA	5:F:416:ARG:NH1	2.14	0.63
1:L:58:ILE:O	1:L:61:VAL:HG13	1.98	0.63
2:M:211:LEU:C	2:M:213:ALA:H	1.99	0.63
2:M:480:THR:HG22	2:M:482:GLU:N	2.12	0.63
2:M:694:LEU:HD21	2:M:868:ASP:CB	2.28	0.63
3:N:358:GLY:HA2	3:N:385:VAL:CB	2.28	0.63
3:N:397:LYS:HE3	3:N:448:GLU:OE2	1.98	0.63
3:N:566:ILE:HA	3:N:569:ASN:HB3	1.81	0.63
3:N:1486:VAL:HA	4:O:75:PHE:HA	1.80	0.63
5:P:76:SER:O	5:P:78:SER:N	2.26	0.63
1:B:70:GLY:O	1:B:133:GLU:HG2	1.99	0.63
1:B:197:LEU:HD12	1:B:198:ARG:N	2.14	0.63
2:C:176:VAL:HG12	2:C:181:VAL:O	1.99	0.63
2:C:367:LEU:HG	2:C:372:LEU:HD11	1.81	0.63
3:D:119:SER:O	3:D:121:THR:N	2.31	0.63
3:D:187:LYS:HG3	3:D:198:ARG:CG	2.27	0.63
3:D:210:ARG:N	3:D:389:GLU:HB2	2.14	0.63
3:D:528:VAL:O	3:D:535:PHE:HB3	1.98	0.63
3:D:960:LYS:HG2	3:D:964:LEU:CD1	2.28	0.63
1:K:5:LYS:HZ2	1:K:28:LEU:C	2.02	0.63
1:K:101:LEU:HD12	1:K:102:LYS:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:328:LEU:HG	2:M:433:THR:HB	1.79	0.63
2:M:394:PHE:HB3	2:M:632:ASN:ND2	2.14	0.63
3:N:441:ARG:O	3:N:443:VAL:HG23	1.99	0.63
3:N:671:LYS:CA	3:N:674:ARG:HB2	2.28	0.63
3:N:1151:ARG:C	3:N:1162:GLU:HB3	2.18	0.63
3:N:1254:GLN:HG2	3:N:1255:GLY:N	2.13	0.63
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.80	0.63
1:B:117:VAL:HG12	1:B:118:ALA:N	2.12	0.63
2:C:135:VAL:HG23	2:C:395:LYS:HA	1.79	0.63
2:C:174:LEU:HD21	2:C:184:MET:HG2	1.80	0.63
2:C:232:GLU:O	2:C:236:ILE:HG13	1.98	0.63
2:C:542:VAL:CG2	2:C:543:ASN:H	2.07	0.63
3:D:22:SER:HA	3:D:90:MET:O	1.98	0.63
3:D:442:ASN:N	3:D:442:ASN:HD22	1.96	0.63
2:M:63:GLY:H	2:M:103:LYS:HA	1.61	0.63
2:M:198:ARG:HE	2:M:231:PRO:HD3	1.64	0.63
2:M:217:LEU:C	2:M:219:GLN:H	2.02	0.63
2:M:776:SER:CB	5:P:379:ARG:HH22	2.11	0.63
2:M:941:VAL:HG12	2:M:945:ARG:HH21	1.62	0.63
3:N:172:PRO:O	3:N:175:VAL:HG23	1.98	0.63
3:N:227:LEU:HD12	3:N:331:VAL:CG2	2.29	0.63
3:N:501:ALA:O	3:N:505:SER:CB	2.46	0.63
1:B:206:THR:HG22	1:B:208:LEU:HB3	1.81	0.63
2:C:211:LEU:O	2:C:213:ALA:N	2.31	0.63
2:C:343:GLN:O	2:C:346:VAL:HG22	1.99	0.63
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.80	0.63
2:C:649:VAL:HG13	2:C:653:ASP:CB	2.29	0.63
3:D:113:GLY:C	3:D:115:LEU:N	2.50	0.63
3:D:259:VAL:HG23	3:D:270:LEU:CD1	2.28	0.63
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.14	0.63
2:M:148:PHE:N	2:M:323:ASP:OD2	2.31	0.63
2:M:468:ARG:HA	2:M:486:MET:O	1.99	0.63
2:M:853:LEU:HB2	2:M:858:MET:HE3	1.81	0.63
3:N:92:HIS:HA	3:N:519:VAL:HG23	1.81	0.63
3:N:531:ASP:O	3:N:533:GLY:N	2.32	0.63
3:N:772:PRO:HG3	3:N:1210:SER:CB	2.27	0.63
3:N:811:GLU:HB2	3:N:816:HIS:ND1	2.14	0.63
3:N:819:GLY:HA2	3:N:824:ASN:ND2	2.14	0.63
1:B:152:PRO:HG2	1:B:155:LYS:HB3	1.80	0.63
2:C:176:VAL:CG1	2:C:182:VAL:HA	2.29	0.63
2:C:178:PRO:O	2:C:179:ASN:C	2.36	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:193:LEU:CD1	2:C:196:LEU:HD12	2.29	0.63
2:C:380:ALA:O	2:C:384:GLU:HG2	1.99	0.63
2:C:520:GLU:O	2:C:522:VAL:HG23	1.98	0.63
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.28	0.63
3:D:274:ARG:NH2	3:D:279:VAL:HG13	2.13	0.63
3:D:434:ARG:HD3	3:D:449:SER:HB3	1.80	0.63
3:D:592:THR:HG21	3:D:598:ARG:NH1	2.14	0.63
3:D:1403:LEU:HG	3:D:1408:ILE:HG13	1.80	0.63
1:K:78:ILE:O	1:K:81:ASN:HB2	1.98	0.63
1:L:5:LYS:HE2	1:L:189:ARG:NH1	2.13	0.63
2:M:34:VAL:N	2:M:35:PRO:CD	2.61	0.63
2:M:380:ALA:C	2:M:384:GLU:HG2	2.19	0.63
2:M:504:GLU:O	2:M:506:ASN:N	2.32	0.63
2:M:726:ILE:C	2:M:728:HIS:H	2.01	0.63
3:N:849:ALA:O	3:N:852:ALA:HB3	1.98	0.63
4:O:73:LEU:HD12	4:O:74:VAL:H	1.64	0.63
5:P:138:SER:HA	5:P:141:VAL:HG13	1.81	0.63
1:A:106:PRO:HD3	1:A:134:GLU:OE1	1.99	0.63
2:C:184:MET:HG3	2:C:193:LEU:CD1	2.28	0.63
2:C:199:VAL:HG21	2:C:238:LEU:CD1	2.29	0.63
3:D:55:ASP:OD1	3:D:83:SER:N	2.32	0.63
3:D:119:SER:CB	3:D:122:GLU:HB2	2.28	0.63
3:D:127:LEU:CD2	3:D:461:ILE:HD11	2.28	0.63
3:D:178:LEU:HG	3:D:181:ASP:HB2	1.81	0.63
3:D:182:GLY:HA2	3:D:203:ALA:CB	2.19	0.63
3:D:1107:VAL:CG2	3:D:1219:GLU:HB3	2.29	0.63
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.80	0.63
4:E:42:PRO:HA	4:E:45:ARG:CD	2.28	0.63
4:E:85:LEU:H	4:E:85:LEU:HD23	1.63	0.63
1:L:110:LYS:HD2	1:L:126:ASP:HA	1.80	0.63
2:M:328:LEU:CD1	2:M:437:ARG:HD2	2.29	0.63
2:M:726:ILE:CD1	2:M:728:HIS:HB2	2.29	0.63
3:N:125:GLN:HG2	5:P:75:ILE:O	1.98	0.63
3:N:814:ALA:O	3:N:818:ARG:HG3	1.99	0.63
3:N:1397:LYS:C	3:N:1398:TRP:CD1	2.72	0.63
5:P:164:LYS:HA	5:P:171:LYS:HE3	1.81	0.63
1:B:215:VAL:CG2	1:B:216:GLU:N	2.62	0.62
2:C:56:GLU:HB2	2:C:64:LEU:CD2	2.29	0.62
2:C:322:VAL:HG12	2:C:323:ASP:H	1.63	0.62
2:C:894:GLY:HA2	2:C:897:LEU:HB2	1.81	0.62
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:875:THR:HG22	3:D:879:ARG:HG3	1.81	0.62
3:D:907:GLU:OE2	3:D:910:SER:HB3	1.99	0.62
3:D:962:GLN:HB3	3:D:966:GLU:OE2	1.99	0.62
1:K:186:LEU:O	1:K:188:GLN:HG2	1.99	0.62
1:L:91:ASN:HB3	1:L:94:LEU:CG	2.26	0.62
2:M:89:THR:HG23	2:M:129:ILE:HA	1.81	0.62
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.33	0.62
2:M:939:ARG:O	2:M:943:VAL:HG23	1.99	0.62
3:N:85:VAL:HG22	3:N:89:ARG:CG	2.29	0.62
3:N:131:LYS:HB3	3:N:131:LYS:HZ3	1.62	0.62
3:N:212:ARG:HA	3:N:343:LYS:O	1.99	0.62
3:N:1091:SER:C	3:N:1093:TYR:N	2.46	0.62
2:C:649:VAL:HG22	2:C:650:ARG:NH2	2.14	0.62
2:C:695:LEU:O	2:C:698:ASP:N	2.29	0.62
2:C:1010:THR:HA	3:D:624:ASP:OD1	1.97	0.62
2:C:1100:GLN:HA	2:C:1100:GLN:NE2	2.14	0.62
5:F:382:THR:HG22	5:F:394:ARG:HB2	1.82	0.62
1:K:208:LEU:HG	1:K:212:ASN:HD21	1.64	0.62
1:L:156:HIS:O	1:L:158:ILE:N	2.32	0.62
2:M:353:ARG:O	2:M:357:GLU:HG3	1.99	0.62
2:M:979:THR:C	2:M:981:GLU:H	2.02	0.62
3:N:690:ALA:O	3:N:693:GLU:HB3	1.98	0.62
3:N:921:ARG:HB3	3:N:921:ARG:HH11	1.63	0.62
3:N:1400:VAL:HG12	3:N:1404:ASN:ND2	2.13	0.62
3:N:1498:ALA:HB3	4:O:84:ARG:NH2	2.13	0.62
4:O:37:ASN:N	4:O:37:ASN:ND2	2.46	0.62
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.80	0.62
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.65	0.62
2:C:218:VAL:HG22	2:C:218:VAL:O	1.98	0.62
2:C:221:LEU:HD23	2:C:222:MET:HG3	1.81	0.62
2:C:260:LEU:HB2	2:C:291:ALA:HB2	1.81	0.62
3:D:318:ARG:HG2	3:D:319:ALA:N	2.14	0.62
3:D:417:PRO:HG2	3:D:428:LYS:HE2	1.81	0.62
3:D:798:GLU:HG3	3:D:799:LYS:N	2.14	0.62
3:D:1324:PRO:O	3:D:1325:LEU:HD23	1.98	0.62
3:D:1330:ILE:HD12	3:D:1347:TYR:CE1	2.34	0.62
1:K:31:GLY:N	1:K:193:ASP:OD2	2.32	0.62
1:L:66:SER:HB2	1:L:75:VAL:HG21	1.80	0.62
2:M:265:ARG:HG3	2:M:265:ARG:O	1.98	0.62
3:N:45:PHE:HB3	3:N:86:ARG:HH22	1.64	0.62
3:N:173:PRO:HG3	3:N:209:ARG:NH1	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:410:SER:CB	5:P:178:ARG:HG3	2.29	0.62
3:N:452:ILE:HD12	3:N:452:ILE:O	1.99	0.62
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.81	0.62
3:N:576:GLU:HA	3:N:579:ASP:OD2	1.99	0.62
3:N:1341:PRO:O	3:N:1342:GLU:C	2.35	0.62
3:N:1342:GLU:H	3:N:1342:GLU:CD	2.01	0.62
3:N:1396:GLU:C	3:N:1398:TRP:H	2.02	0.62
5:P:92:PRO:O	5:P:94:LEU:N	2.31	0.62
2:C:810:ASP:N	2:C:811:PRO:CD	2.62	0.62
2:C:1100:GLN:CG	2:C:1102:LEU:HD21	2.28	0.62
3:D:629:SER:CA	3:D:744:GLN:HE21	2.13	0.62
3:D:849:ALA:O	3:D:852:ALA:HB3	1.98	0.62
3:D:1211:MET:HB2	3:D:1213:ARG:NH1	2.15	0.62
4:E:6:ILE:O	4:E:9:LEU:HB2	1.99	0.62
1:K:209:GLU:HA	1:K:212:ASN:HD22	1.63	0.62
2:M:101:ILE:HD13	2:M:107:LEU:HD22	1.79	0.62
2:M:204:GLN:O	2:M:209:ARG:HD3	1.98	0.62
2:M:660:ALA:HB1	2:M:667:ALA:O	2.00	0.62
3:N:244:GLU:CG	3:N:245:LEU:H	2.12	0.62
3:N:1213:ARG:HH11	3:N:1213:ARG:CG	2.11	0.62
5:P:80:PRO:HA	5:P:83:GLN:OE1	2.00	0.62
5:P:93:LEU:HG	5:P:93:LEU:O	1.99	0.62
5:P:353:GLU:HA	5:P:356:LYS:CG	2.30	0.62
1:B:76:VAL:O	1:B:80:LEU:HG	1.99	0.62
2:C:267:TYR:CE1	2:C:464:LEU:HD12	2.34	0.62
2:C:607:ASP:HB3	2:C:610:ARG:NH1	2.14	0.62
2:C:1051:GLU:HG3	2:C:1052:MET:H	1.62	0.62
3:D:157:GLU:O	3:D:161:LEU:HG	1.97	0.62
3:D:510:GLU:H	3:D:510:GLU:CD	2.02	0.62
3:D:794:GLN:HE22	3:D:905:PRO:HG2	1.64	0.62
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.29	0.62
3:D:1269:LYS:HE2	3:D:1269:LYS:H	1.63	0.62
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.00	0.62
1:K:208:LEU:HG	1:K:209:GLU:N	2.14	0.62
1:K:226:SER:O	1:K:228:PRO:HD3	1.99	0.62
1:L:48:ILE:C	1:L:148:VAL:HG12	2.20	0.62
2:M:549:PHE:CE2	2:M:886:LEU:HB2	2.33	0.62
2:M:781:LYS:HA	2:M:781:LYS:CE	2.28	0.62
2:M:806:LEU:O	2:M:821:GLU:HB2	2.00	0.62
2:M:984:GLU:O	3:N:946:GLY:HA3	2.00	0.62
2:M:1059:ASP:OD2	2:M:1062:GLY:HA3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.34	0.62
2:M:1098:ASP:HB2	3:N:17:LYS:HE2	1.81	0.62
3:N:999:THR:O	3:N:1003:VAL:HG23	1.99	0.62
3:N:1031:ASN:ND2	3:N:1034:GLN:HG3	2.15	0.62
3:N:1118:ILE:HD13	3:N:1190:SER:HB2	1.81	0.62
3:N:1206:GLY:O	3:N:1215:VAL:HG12	1.99	0.62
3:N:1342:GLU:CD	3:N:1342:GLU:N	2.52	0.62
1:A:1:MET:H1	1:A:6:LEU:HD13	1.63	0.62
2:C:191:PHE:HD2	2:C:195:LEU:HD11	1.64	0.62
2:C:479:VAL:H	2:C:506:ASN:HB3	1.64	0.62
2:C:1100:GLN:HG3	2:C:1102:LEU:CD2	2.28	0.62
3:D:269:PHE:CD1	3:D:283:PHE:HB2	2.33	0.62
3:D:701:LEU:CD2	3:D:715:ALA:HB2	2.29	0.62
3:D:1147:ARG:HB2	3:D:1166:LEU:HD12	1.81	0.62
3:D:1217:ILE:HD12	3:D:1217:ILE:N	2.01	0.62
3:D:1498:ALA:HB2	4:E:87:LYS:HZ3	1.63	0.62
1:L:219:ARG:HG2	1:L:219:ARG:NH1	2.12	0.62
2:M:170:PRO:CD	2:M:263:ASP:HB3	2.29	0.62
2:M:773:LEU:CD1	2:M:777:ILE:HD11	2.28	0.62
3:N:139:GLY:HA3	3:N:147:VAL:HG23	1.79	0.62
3:N:613:ARG:O	3:N:1441:GLN:HG3	2.00	0.62
3:N:1121:PRO:HD2	3:N:1346:ARG:HH21	1.65	0.62
5:P:349:LEU:HA	5:P:352:GLU:OE2	1.99	0.62
3:D:272:LEU:HD12	3:D:282:TYR:CE1	2.33	0.62
3:D:366:LYS:HE2	3:D:369:ALA:HB2	1.82	0.62
3:D:984:THR:HG22	3:D:987:GLU:CG	2.30	0.62
3:D:1246:VAL:HG11	3:D:1249:ALA:O	2.00	0.62
3:D:1286:THR:HG22	3:D:1288:GLU:OE1	1.99	0.62
5:F:417:LYS:HB2	5:F:418:LEU:HD12	1.82	0.62
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.81	0.62
1:L:57:TYR:CD1	1:L:163:ASN:HB2	2.34	0.62
3:N:658:LEU:O	3:N:661:MET:HB2	2.00	0.62
3:N:954:ALA:HB3	3:N:1062:ARG:HD2	1.81	0.62
3:N:1379:VAL:C	3:N:1420:LEU:HD22	2.20	0.62
5:P:152:ASP:N	5:P:153:PRO:CD	2.62	0.62
1:B:47:SER:C	1:B:48:ILE:HD12	2.20	0.62
1:B:64:GLU:HA	1:B:75:VAL:HG11	1.80	0.62
2:C:1104:GLU:HA	3:D:7:LYS:HZ3	1.62	0.62
3:D:264:LEU:HB3	3:D:316:GLN:NE2	2.15	0.62
3:D:551:ASN:O	3:D:554:LEU:HB3	1.99	0.62
3:D:654:LYS:O	3:D:657:LEU:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1048:PRO:O	3:D:1079:LYS:NZ	2.32	0.62
4:E:61:GLU:CD	4:E:61:GLU:N	2.52	0.62
1:L:68:ILE:HG13	1:L:71:VAL:O	2.00	0.62
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.82	0.62
2:M:672:VAL:HG23	2:M:673:LEU:N	2.13	0.62
2:M:726:ILE:HG13	2:M:728:HIS:CB	2.29	0.62
3:N:27:GLU:HB2	3:N:28:LYS:HE2	1.81	0.62
3:N:207:PHE:HB3	5:P:97:GLU:OE1	1.99	0.62
3:N:634:GLY:HA3	3:N:637:LEU:HG	1.82	0.62
3:N:673:ALA:O	3:N:676:MET:HB3	2.00	0.62
3:N:985:ASP:O	3:N:988:ARG:HB3	1.98	0.62
3:N:989:TYR:O	3:N:992:ILE:HB	2.00	0.62
5:P:305:GLU:O	5:P:308:LEU:HG	1.99	0.62
2:C:56:GLU:O	2:C:64:LEU:HD23	1.99	0.62
2:C:555:ALA:O	2:C:558:ALA:HB3	1.99	0.62
2:C:672:VAL:CG2	2:C:673:LEU:N	2.63	0.62
3:D:79:GLU:CG	3:D:80:VAL:H	2.11	0.62
3:D:349:PRO:HB3	5:F:97:GLU:HG2	1.81	0.62
3:D:657:LEU:HG	3:D:661:MET:HE2	1.80	0.62
3:D:1381:VAL:HG12	3:D:1391:GLU:O	2.00	0.62
3:D:1465:ASN:OD1	3:D:1470:ARG:HD3	2.00	0.62
5:F:321:ILE:HG13	5:F:332:PHE:HE1	1.63	0.62
1:L:153:ALA:HB2	1:L:168:ASP:N	2.14	0.62
2:M:218:VAL:O	2:M:218:VAL:HG22	2.00	0.62
2:M:522:VAL:HG12	2:M:523:ILE:N	2.15	0.62
2:M:958:THR:HG23	2:M:961:GLU:HB3	1.80	0.62
2:M:1037:VAL:HG12	2:M:1041:GLU:CD	2.19	0.62
3:N:156:GLU:CD	3:N:156:GLU:H	2.04	0.62
3:N:470:LEU:HB2	3:N:503:LEU:CD2	2.30	0.62
3:N:865:THR:HA	3:N:873:LEU:O	2.00	0.62
5:P:385:GLU:HA	5:P:388:ALA:HB3	1.80	0.62
3:D:561:GLY:HA3	5:F:132:ARG:HD3	1.82	0.62
5:F:132:ARG:NH2	5:F:184:ARG:HH12	1.96	0.62
5:F:409:LYS:HD2	5:F:410:TYR:H	1.64	0.62
1:K:178:ALA:HB2	2:M:864:GLY:N	2.15	0.62
1:L:201:THR:HG21	1:L:207:PRO:HA	1.80	0.62
2:M:205:GLU:CA	2:M:209:ARG:HH11	2.11	0.62
3:N:249:TYR:HB3	3:N:307:ALA:CB	2.27	0.62
3:N:479:GLU:O	3:N:481:MET:N	2.32	0.62
3:N:801:GLY:CA	3:N:830:ALA:HB3	2.30	0.62
3:N:1368:ILE:O	3:N:1372:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.81	0.62
1:B:185:ARG:HB3	1:B:190:THR:HG23	1.80	0.61
1:B:209:GLU:HA	1:B:212:ASN:ND2	2.14	0.61
1:B:213:GLN:O	1:B:216:GLU:HB3	2.00	0.61
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.81	0.61
2:C:728:HIS:NE2	2:C:730:SER:HB3	2.15	0.61
3:D:136:ASP:CB	3:D:137:PRO:CD	2.78	0.61
3:D:937:TYR:HD1	3:D:937:TYR:H	1.46	0.61
3:D:1086:LEU:HD12	3:D:1238:MET:SD	2.40	0.61
3:D:1486:VAL:HG22	4:E:75:PHE:CB	2.30	0.61
5:F:101:GLU:HG3	5:F:105:LYS:HE3	1.82	0.61
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.82	0.61
1:L:20:TYR:C	1:L:207:PRO:HG2	2.20	0.61
2:M:328:LEU:HG	2:M:433:THR:CB	2.30	0.61
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.81	0.61
2:M:759:THR:HB	2:M:785:VAL:CG1	2.29	0.61
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.00	0.61
4:O:71:GLY:C	4:O:73:LEU:H	2.03	0.61
5:P:102:LEU:HG	5:P:187:LEU:HD22	1.81	0.61
5:P:382:THR:CG2	5:P:394:ARG:HB2	2.30	0.61
1:B:215:VAL:HG23	1:B:216:GLU:N	2.15	0.61
3:D:45:PHE:O	3:D:47:GLU:N	2.33	0.61
3:D:915:VAL:O	3:D:918:ALA:HB3	2.00	0.61
5:F:367:MET:HB3	5:F:371:LEU:HG	1.83	0.61
1:L:90:LEU:HD12	1:L:119:ASP:HA	1.81	0.61
2:M:18:LEU:HG	2:M:590:ASP:OD1	2.01	0.61
2:M:230:ARG:HH21	2:M:237:ARG:HH22	0.77	0.61
3:N:553:ARG:NH1	5:P:211:ASP:HA	2.12	0.61
3:N:1468:LEU:HD23	3:N:1469:GLY:N	2.15	0.61
5:P:353:GLU:HA	5:P:356:LYS:CD	2.29	0.61
1:A:111:ALA:C	1:A:113:ASP:H	2.01	0.61
1:A:206:THR:HG22	1:A:208:LEU:N	2.15	0.61
2:C:373:VAL:HG12	2:C:374:ASN:N	2.15	0.61
2:C:571:LEU:HD22	2:C:701:THR:N	2.15	0.61
3:D:367:ILE:HD11	3:D:379:ALA:HA	1.82	0.61
3:D:858:VAL:HG12	3:D:859:ASP:N	2.15	0.61
3:D:1183:ILE:HG13	3:D:1184:GLN:H	1.64	0.61
3:D:1314:LYS:HB2	3:D:1317:ASP:OD2	1.99	0.61
3:D:1424:VAL:HG23	3:D:1425:THR:N	2.14	0.61
4:E:87:LYS:HE3	4:E:91:ARG:NH2	2.16	0.61
5:F:361:LEU:HG	5:F:362:SER:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:417:LYS:C	5:F:419:ARG:H	2.03	0.61
1:K:110:LYS:CB	1:K:112:ARG:HG2	2.26	0.61
2:M:182:VAL:HG22	2:M:220:GLY:O	1.99	0.61
2:M:436:GLY:HA2	2:M:539:VAL:HA	1.81	0.61
2:M:1030:GLN:CG	3:N:626:SER:HB2	2.30	0.61
3:N:223:LEU:O	3:N:224:ARG:HD2	2.00	0.61
3:N:350:HIS:HB3	5:P:232:ARG:NH1	2.14	0.61
3:N:417:PRO:HB3	3:N:430:ASP:CA	2.25	0.61
3:N:479:GLU:C	3:N:481:MET:N	2.51	0.61
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.83	0.61
2:C:6:PHE:HB3	2:C:908:GLY:HA2	1.81	0.61
2:C:101:ILE:CG2	2:C:107:LEU:HD23	2.30	0.61
2:C:162:ILE:CD1	2:C:172:ILE:HD12	2.30	0.61
2:C:631:SER:HB2	2:C:637:LEU:HD21	1.83	0.61
3:D:252:ARG:HG3	3:D:300:LYS:CA	2.29	0.61
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.40	0.61
3:D:972:LEU:CD2	3:D:972:LEU:N	2.63	0.61
5:F:74:LYS:O	5:F:77:THR:HB	2.00	0.61
5:F:79:ASP:O	5:F:79:ASP:OD1	2.17	0.61
5:F:288:TYR:HB3	5:F:301:ALA:CA	2.30	0.61
1:K:101:LEU:HD13	1:K:113:ASP:O	2.01	0.61
1:L:143:ARG:HD3	1:L:143:ARG:C	2.20	0.61
2:M:687:ALA:HB1	2:M:850:ALA:HB2	1.81	0.61
2:M:926:PHE:CD1	2:M:929:ARG:HG3	2.35	0.61
3:N:18:ILE:CG2	3:N:518:PRO:HG3	2.30	0.61
3:N:206:ARG:NE	3:N:392:SER:HB2	2.15	0.61
3:N:633:VAL:O	3:N:635:PRO:HD3	1.99	0.61
1:B:85:LEU:HD12	1:B:86:VAL:H	1.65	0.61
2:C:138:SER:HB2	2:C:333:ILE:HD11	1.81	0.61
2:C:317:VAL:N	2:C:318:PRO:CD	2.62	0.61
2:C:431:HIS:CE1	2:C:433:THR:H	2.18	0.61
3:D:133:ILE:O	3:D:152:LEU:HD12	2.00	0.61
3:D:288:MET:HE2	3:D:307:ALA:HB2	1.81	0.61
3:D:544:TYR:O	3:D:547:LEU:HB3	2.00	0.61
5:F:267:THR:O	5:F:271:LEU:HG	1.99	0.61
1:K:25:LEU:HD11	1:L:224:TYR:HB3	1.83	0.61
1:K:185:ARG:HA	1:K:190:THR:HA	1.82	0.61
1:K:195:LEU:HD12	1:K:196:THR:N	2.14	0.61
2:M:112:GLU:O	2:M:113:VAL:HG13	2.01	0.61
2:M:493:ARG:HB2	2:M:494:TYR:CE1	2.35	0.61
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1056:LYS:NZ	3:N:749:VAL:H	1.97	0.61
2:M:1092:LEU:O	2:M:1095:LEU:HB2	2.00	0.61
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.23	0.61
3:N:811:GLU:HB2	3:N:816:HIS:CE1	2.35	0.61
3:N:1032:PRO:HB2	3:N:1033:GLN:NE2	2.15	0.61
5:P:84:TYR:C	5:P:86:HIS:H	2.02	0.61
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.83	0.61
1:B:101:LEU:HD22	1:B:114:PHE:CD1	2.35	0.61
2:C:676:ILE:O	2:C:676:ILE:HG12	1.99	0.61
3:D:119:SER:C	3:D:121:THR:H	2.04	0.61
3:D:167:GLU:O	3:D:394:LEU:HD12	2.01	0.61
3:D:204:LEU:HD12	3:D:205:TYR:N	2.15	0.61
3:D:358:GLY:HA2	3:D:385:VAL:CB	2.29	0.61
3:D:661:MET:CE	3:D:677:LEU:HD11	2.30	0.61
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.08	0.61
3:D:1368:ILE:O	3:D:1372:VAL:HG23	2.00	0.61
5:F:382:THR:HG22	5:F:394:ARG:CB	2.30	0.61
2:M:200:LEU:HB2	2:M:202:TYR:CD2	2.35	0.61
3:N:142:LEU:HD13	3:N:144:GLY:H	1.65	0.61
3:N:525:ARG:HG3	3:N:525:ARG:O	1.99	0.61
3:N:820:GLU:HG3	3:N:836:VAL:CG1	2.31	0.61
3:N:1468:LEU:HD23	3:N:1468:LEU:C	2.19	0.61
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.31	0.61
2:C:352:ALA:O	2:C:355:VAL:HG12	2.00	0.61
2:C:776:SER:HB3	2:C:780:GLU:CD	2.21	0.61
2:C:1058:ASP:HB3	2:C:1082:PRO:HB3	1.83	0.61
3:D:257:GLY:HA2	3:D:274:ARG:CA	2.22	0.61
3:D:406:ASP:CB	3:D:424:GLY:N	2.63	0.61
3:D:806:PHE:CD2	3:D:809:PRO:HB2	2.34	0.61
3:D:953:ASP:OD2	3:D:1019:PRO:HG2	1.99	0.61
5:F:153:PRO:HG2	5:F:154:LYS:HG3	1.81	0.61
1:L:89:PHE:CD2	1:L:94:LEU:HB2	2.35	0.61
1:L:179:PHE:CD1	1:L:195:LEU:HD11	2.36	0.61
2:M:89:THR:OG1	2:M:130:ASN:N	2.34	0.61
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.30	0.61
3:N:89:ARG:HG2	3:N:89:ARG:NH1	2.14	0.61
3:N:225:LEU:HB3	3:N:226:PRO:CD	2.31	0.61
3:N:483:HIS:HD1	3:N:483:HIS:H	1.47	0.61
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.15	0.61
5:P:372:ARG:HG3	5:P:378:GLY:O	2.00	0.61
1:A:35:THR:O	1:A:39:PRO:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:PHE:N	1:B:23:PHE:CD1	2.68	0.61
1:B:143:ARG:HD3	1:B:143:ARG:C	2.21	0.61
2:C:334:ARG:NH1	2:C:418:LEU:HD11	2.15	0.61
2:C:504:GLU:HG3	2:C:507:ARG:CD	2.30	0.61
2:C:549:PHE:CE2	2:C:886:LEU:HB2	2.36	0.61
2:C:575:GLN:H	2:C:667:ALA:HB1	1.64	0.61
2:C:676:ILE:HD11	3:D:949:ILE:HB	1.83	0.61
2:C:926:PHE:CD1	2:C:929:ARG:HG3	2.36	0.61
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.01	0.61
3:D:1305:LEU:HD23	3:D:1305:LEU:N	2.15	0.61
4:E:48:MET:O	4:E:54:LEU:HA	2.00	0.61
2:M:239:PHE:CZ	2:M:246:ASP:HB3	2.36	0.61
2:M:649:VAL:HA	2:M:650:ARG:NH2	2.14	0.61
2:M:1049:LEU:HD11	2:M:1053:LEU:HD11	1.83	0.61
2:M:1085:PHE:CE2	3:N:1468:LEU:HA	2.34	0.61
3:N:93:ILE:HB	3:N:517:VAL:HB	1.82	0.61
3:N:284:LEU:HB3	3:N:288:MET:HB3	1.81	0.61
3:N:349:PRO:CB	5:P:232:ARG:HH22	2.12	0.61
3:N:1033:GLN:HA	3:N:1036:ARG:NH1	2.15	0.61
3:N:1112:CYS:SG	3:N:1114:THR:HG22	2.41	0.61
5:P:113:ILE:HD13	5:P:128:ARG:HB3	1.83	0.61
5:P:367:MET:HB2	5:P:371:LEU:CD1	2.30	0.61
1:B:114:PHE:O	1:B:116:PRO:HD3	2.01	0.61
2:C:187:ASN:O	2:C:188:LYS:HG2	2.00	0.61
2:C:230:ARG:CG	2:C:233:GLU:HG3	2.22	0.61
2:C:937:ASP:HB3	2:C:940:GLU:HG3	1.81	0.61
2:C:946:ARG:HH11	2:C:984:GLU:HB2	1.66	0.61
3:D:881:LEU:HD21	3:D:941:PHE:HZ	1.65	0.61
3:D:1033:GLN:H	3:D:1033:GLN:CD	2.04	0.61
3:D:1122:LEU:HG	3:D:1184:GLN:O	2.01	0.61
1:L:241:GLU:H	1:L:242:PRO:CD	2.10	0.61
2:M:685:GLU:HB3	3:N:740:PHE:CD1	2.36	0.61
2:M:910:LYS:N	2:M:913:GLU:OE1	2.34	0.61
2:M:1067:TYR:CE1	2:M:1071:ILE:HD11	2.35	0.61
3:N:112:ILE:O	3:N:115:LEU:HB3	2.00	0.61
3:N:322:VAL:HB	3:N:335:LEU:HD21	1.83	0.61
3:N:809:PRO:HA	3:N:810:GLU:OE2	2.01	0.61
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.35	0.61
3:N:1094:LEU:CD1	3:N:1098:LEU:HD11	2.29	0.61
3:N:1126:ASP:OD1	3:N:1129:THR:HA	2.01	0.61
3:N:1305:LEU:N	3:N:1305:LEU:HD23	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1367:HIS:HA	3:N:1370:ILE:HD12	1.83	0.61
1:B:219:ARG:HG2	1:B:219:ARG:HH11	1.65	0.61
2:C:178:PRO:O	2:C:220:GLY:CA	2.32	0.61
2:C:303:PHE:CD1	2:C:303:PHE:N	2.69	0.61
2:C:666:LEU:HD12	2:C:667:ALA:N	2.16	0.61
2:C:813:VAL:CG1	2:C:815:LEU:HG	2.31	0.61
2:C:1015:LEU:O	2:C:1018:GLN:NE2	2.34	0.61
3:D:100:ALA:HA	3:D:513:ILE:HD12	1.83	0.61
3:D:833:GLU:CD	3:D:833:GLU:N	2.54	0.61
3:D:852:ALA:HB1	3:D:857:ILE:HD11	1.83	0.61
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.01	0.61
5:F:144:ILE:HG13	5:F:144:ILE:O	2.01	0.61
5:F:380:GLU:N	5:F:385:GLU:OE2	2.34	0.61
1:K:73:GLU:CD	1:K:131:THR:H	2.04	0.61
1:L:101:LEU:HD22	1:L:114:PHE:CD1	2.35	0.61
1:L:233:VAL:HG12	1:L:235:ALA:H	1.66	0.61
2:M:261:ILE:CG2	2:M:262:ALA:N	2.64	0.61
2:M:689:VAL:O	2:M:690:ILE:HD13	2.00	0.61
3:N:121:THR:CG2	3:N:122:GLU:H	2.01	0.61
3:N:1400:VAL:HA	3:N:1408:ILE:CD1	2.30	0.61
5:P:271:LEU:N	5:P:271:LEU:HD23	2.16	0.61
2:C:683:ASN:ND2	2:C:683:ASN:H	1.98	0.60
5:F:370:LYS:HG3	5:F:371:LEU:N	2.14	0.60
2:M:224:GLU:HB3	2:M:227:PHE:CG	2.36	0.60
2:M:285:LEU:HD11	2:M:288:ARG:C	2.21	0.60
2:M:400:PRO:HB3	2:M:591:SER:HB2	1.82	0.60
2:M:486:MET:SD	2:M:491:GLU:N	2.74	0.60
2:M:923:GLU:O	2:M:927:GLY:N	2.34	0.60
3:N:141:ILE:CB	3:N:450:TYR:HD2	2.13	0.60
3:N:230:TRP:NE1	3:N:233:LYS:HG3	2.16	0.60
3:N:280:ALA:HB1	3:N:282:TYR:OH	2.01	0.60
3:N:287:GLY:O	3:N:311:LEU:HD22	2.01	0.60
3:N:401:TYR:CE2	3:N:429:SER:HB2	2.36	0.60
3:N:408:GLU:CB	3:N:422:ALA:HB2	2.28	0.60
3:N:501:ALA:O	3:N:505:SER:HB2	2.01	0.60
3:N:660:LYS:HG3	3:N:694:VAL:HG22	1.83	0.60
3:N:807:ALA:HA	3:N:833:GLU:HB2	1.83	0.60
3:N:828:LYS:N	3:N:828:LYS:CD	2.64	0.60
3:N:1008:PHE:HZ	3:N:1032:PRO:HA	1.64	0.60
5:P:86:HIS:C	5:P:88:ILE:H	2.03	0.60
2:C:233:GLU:HB2	2:C:237:ARG:NH2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:250:ARG:CB	2:C:253:ALA:HB2	2.31	0.60
2:C:483:VAL:HG22	2:C:484:VAL:N	2.16	0.60
2:C:496:ILE:HA	2:C:531:PHE:O	2.01	0.60
2:C:896:PHE:C	2:C:898:GLY:H	2.04	0.60
3:D:15:PRO:O	3:D:19:ARG:HG3	2.01	0.60
3:D:241:ILE:HG12	3:D:312:ARG:HG3	1.82	0.60
3:D:355:VAL:HG21	3:D:367:ILE:HG23	1.81	0.60
3:D:401:TYR:O	3:D:444:VAL:HG22	2.02	0.60
3:D:433:GLY:CA	3:D:449:SER:H	2.04	0.60
2:M:36:PRO:HG2	2:M:38:LYS:HB3	1.84	0.60
2:M:157:ARG:NH1	2:M:314:THR:HA	2.16	0.60
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.35	0.60
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.00	0.60
3:N:44:LEU:O	3:N:525:ARG:NH2	2.33	0.60
3:N:131:LYS:HE3	3:N:565:ILE:HA	1.83	0.60
3:N:139:GLY:HA2	3:N:452:ILE:HG22	1.81	0.60
3:N:348:GLN:HB2	3:N:351:MET:SD	2.41	0.60
3:N:356:PRO:HB3	3:N:440:VAL:CB	2.28	0.60
3:N:924:MET:O	3:N:927:THR:HB	2.01	0.60
3:N:968:ASP:HA	3:N:971:LEU:HD12	1.82	0.60
3:N:1122:LEU:O	3:N:1134:LEU:HD12	2.00	0.60
3:N:1321:ALA:O	3:N:1339:LYS:HG3	2.01	0.60
1:B:218:LEU:O	1:B:221:HIS:HB2	2.01	0.60
2:C:13:ILE:HD13	2:C:13:ILE:H	1.66	0.60
2:C:654:LEU:HD12	2:C:655:LEU:N	2.13	0.60
2:C:1021:LEU:HD21	5:F:332:PHE:O	2.01	0.60
2:C:1049:LEU:O	2:C:1052:MET:HB3	2.01	0.60
3:D:408:GLU:CG	3:D:422:ALA:HB2	2.31	0.60
3:D:593:ASN:HB3	3:D:594:PRO:HD3	1.84	0.60
3:D:951:ILE:HD11	3:D:1062:ARG:CG	2.26	0.60
5:F:340:SER:N	5:F:343:ASP:OD2	2.34	0.60
5:F:367:MET:HA	5:F:370:LYS:HG2	1.83	0.60
1:L:38:ASN:ND2	2:M:979:THR:HA	2.17	0.60
2:M:326:ASP:HA	2:M:331:ARG:HD2	1.82	0.60
2:M:355:VAL:CA	2:M:358:ARG:HG3	2.30	0.60
3:N:104:PHE:N	3:N:104:PHE:CD1	2.68	0.60
3:N:126:VAL:O	3:N:132:TYR:CD1	2.53	0.60
3:N:566:ILE:HG21	5:P:192:LEU:HD22	1.83	0.60
3:N:729:HIS:HE1	3:N:935:LYS:NZ	1.99	0.60
3:N:1302:GLU:HG2	3:N:1303:TYR:H	1.67	0.60
3:N:1406:ARG:HD3	3:N:1412:LYS:HZ1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1450:ALA:O	3:N:1454:GLY:N	2.34	0.60
5:P:245:GLN:HE21	5:P:245:GLN:HA	1.66	0.60
1:A:35:THR:N	1:B:42:ARG:NH1	2.48	0.60
1:B:13:VAL:CG2	1:B:14:ARG:H	2.15	0.60
2:C:36:PRO:HG2	2:C:38:LYS:HG2	1.83	0.60
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.27	0.60
2:C:1021:LEU:HD23	5:F:334:PRO:HB3	1.83	0.60
3:D:82:LYS:O	3:D:85:VAL:HG12	2.01	0.60
3:D:248:PRO:CA	3:D:308:LYS:HZ3	2.09	0.60
3:D:274:ARG:HH21	3:D:279:VAL:HG13	1.65	0.60
3:D:323:GLU:HB2	3:D:334:THR:OG1	2.00	0.60
3:D:634:GLY:HA3	3:D:637:LEU:HG	1.83	0.60
3:D:713:ILE:O	3:D:714:GLN:HG3	2.02	0.60
3:D:729:HIS:O	3:D:732:VAL:HG22	2.01	0.60
3:D:1498:ALA:HA	3:D:1501:GLU:HB2	1.82	0.60
1:L:48:ILE:HG22	1:L:173:PRO:HD2	1.82	0.60
1:L:211:LEU:O	1:L:215:VAL:HG13	2.01	0.60
2:M:722:ILE:HG13	2:M:722:ILE:O	2.01	0.60
3:N:59:ALA:HB3	3:N:76:CYS:CB	2.31	0.60
3:N:106:LYS:HA	3:N:106:LYS:CE	2.25	0.60
3:N:243:ALA:HB3	3:N:311:LEU:CD1	2.30	0.60
3:N:274:ARG:NE	3:N:279:VAL:HG11	2.17	0.60
3:N:351:MET:HA	3:N:370:ALA:HB2	1.84	0.60
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.83	0.60
3:N:367:ILE:HB	3:N:377:VAL:HG11	1.82	0.60
3:N:1097:LYS:HB2	3:N:1098:LEU:HD12	1.84	0.60
3:N:1099:VAL:CG1	10:N:1528:NE6:H14	2.29	0.60
3:N:1341:PRO:HA	3:N:1344:VAL:HG12	1.83	0.60
3:N:1466:VAL:O	3:N:1468:LEU:N	2.34	0.60
1:A:34:VAL:O	1:A:36:LEU:N	2.34	0.60
2:C:202:TYR:HB2	2:C:207:LEU:HD11	1.84	0.60
2:C:873:PRO:O	2:C:876:VAL:HG23	2.01	0.60
3:D:210:ARG:HB2	3:D:389:GLU:HB2	1.82	0.60
3:D:241:ILE:CD1	3:D:310:LEU:HD22	2.30	0.60
3:D:322:VAL:CG2	3:D:333:LEU:HD22	2.31	0.60
3:D:341:GLU:OE1	3:D:343:LYS:HE3	2.02	0.60
3:D:1117:TYR:CD1	3:D:1118:ILE:N	2.69	0.60
3:D:1152:GLU:HG2	3:D:1153:VAL:H	1.66	0.60
2:M:42:VAL:HG13	2:M:43:GLY:N	2.17	0.60
2:M:305:PRO:HA	2:M:308:ARG:HG2	1.83	0.60
3:N:212:ARG:HD3	3:N:342:PRO:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:362:GLU:H	3:N:365:ASP:CB	2.15	0.60
3:N:671:LYS:HE2	3:N:675:ARG:HD3	1.82	0.60
3:N:1107:VAL:HG11	3:N:1217:ILE:HA	1.84	0.60
5:P:200:LYS:HA	5:P:209:PHE:HE1	1.66	0.60
1:A:55:SER:HB2	1:A:165:ILE:O	2.02	0.60
1:A:108:GLU:HG2	1:A:109:VAL:N	2.15	0.60
1:B:63:HIS:CD2	1:B:65:PHE:HB2	2.36	0.60
2:C:34:VAL:N	2:C:35:PRO:CD	2.64	0.60
2:C:71:TYR:HD2	2:C:71:TYR:N	1.97	0.60
3:D:1442:ASN:HD21	3:D:1445:HIS:HB2	1.66	0.60
5:F:86:HIS:C	5:F:88:ILE:H	2.05	0.60
1:K:100:LEU:HB3	1:K:115:LEU:CD1	2.28	0.60
1:L:75:VAL:O	1:L:79:ILE:HG13	2.02	0.60
1:L:87:VAL:HG12	1:L:122:ILE:HA	1.84	0.60
2:M:41:ASN:HB2	2:M:46:ALA:HA	1.82	0.60
2:M:61:LYS:O	2:M:103:LYS:HB2	2.01	0.60
3:N:227:LEU:HD12	3:N:331:VAL:HG22	1.82	0.60
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.00	0.60
5:P:367:MET:O	5:P:370:LYS:HG2	2.02	0.60
1:A:138:LEU:HD12	1:A:139:ASN:N	2.14	0.60
2:C:415:PRO:O	2:C:419:THR:N	2.32	0.60
2:C:790:LEU:HD12	2:C:791:ARG:N	2.15	0.60
2:C:1112:PHE:O	2:C:1113:GLU:HG2	2.01	0.60
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.28	0.60
3:D:172:PRO:HB2	3:D:175:VAL:HG21	1.83	0.60
3:D:658:LEU:O	3:D:661:MET:HB2	2.02	0.60
3:D:673:ALA:CA	3:D:676:MET:HB3	2.32	0.60
3:D:828:LYS:H	3:D:828:LYS:HD3	1.67	0.60
3:D:1341:PRO:O	3:D:1343:ALA:N	2.35	0.60
3:D:1405:GLU:CD	3:D:1406:ARG:H	2.04	0.60
3:D:1485:GLN:O	4:E:75:PHE:HA	2.02	0.60
5:F:101:GLU:CG	5:F:105:LYS:HE3	2.32	0.60
5:F:308:LEU:H	5:F:308:LEU:HD23	1.66	0.60
1:K:110:LYS:HB3	1:K:125:PRO:O	2.02	0.60
1:L:123:MET:HE2	1:L:204:SER:HA	1.83	0.60
2:M:276:LYS:HB3	2:M:280:LYS:HZ2	1.65	0.60
2:M:974:LEU:HB2	2:M:983:ILE:HD12	1.83	0.60
3:N:462:GLN:HG2	3:N:466:LYS:HE3	1.83	0.60
3:N:675:ARG:O	3:N:678:GLU:HG2	2.02	0.60
3:N:769:LEU:O	3:N:778:LEU:N	2.27	0.60
3:N:1165:TYR:CE2	3:N:1206:GLY:HA2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:151:LEU:C	5:P:153:PRO:HD2	2.22	0.60
5:P:253:ASP:CB	5:P:259:ARG:HH12	2.15	0.60
5:P:282:LEU:C	5:P:284:ARG:H	2.05	0.60
1:A:20:TYR:HD1	1:A:199:ILE:O	1.85	0.60
1:A:224:TYR:N	1:A:224:TYR:HD2	2.00	0.60
1:B:80:LEU:HB3	3:D:844:ALA:HB2	1.83	0.60
2:C:56:GLU:HB2	2:C:64:LEU:HD23	1.84	0.60
2:C:100:LEU:CD2	2:C:367:LEU:HD23	2.30	0.60
2:C:353:ARG:O	2:C:357:GLU:HG3	2.02	0.60
2:C:573:ARG:HB2	2:C:670:GLN:NE2	2.16	0.60
2:C:649:VAL:HG22	2:C:650:ARG:HH21	1.67	0.60
2:C:760:SER:O	2:C:786:LYS:N	2.34	0.60
3:D:142:LEU:HD13	3:D:144:GLY:H	1.66	0.60
3:D:376:GLU:O	3:D:378:ILE:HG13	2.01	0.60
3:D:834:THR:HA	3:D:838:ARG:HD2	1.84	0.60
3:D:1038:LEU:HD23	3:D:1061:PHE:HB2	1.84	0.60
3:D:1264:GLU:OE2	3:D:1424:VAL:HG22	2.02	0.60
5:F:263:HIS:HA	5:F:266:GLU:CD	2.21	0.60
5:F:367:MET:O	5:F:370:LYS:HG2	2.02	0.60
1:K:1:MET:H1	1:K:6:LEU:HD22	1.67	0.60
1:L:58:ILE:HB	1:L:61:VAL:CG1	2.31	0.60
2:M:542:VAL:CG2	2:M:543:ASN:H	2.07	0.60
2:M:550:LEU:HD12	2:M:550:LEU:O	2.01	0.60
2:M:774:LEU:HD23	5:P:418:LEU:CD2	2.31	0.60
3:N:170:PRO:C	3:N:171:LEU:HD23	2.21	0.60
3:N:1162:GLU:HG3	3:N:1162:GLU:O	2.02	0.60
1:A:231:ALA:N	1:B:13:VAL:O	2.30	0.60
2:C:66:LEU:HA	2:C:99:GLN:O	2.02	0.60
2:C:939:ARG:NH1	2:C:942:GLU:OE2	2.34	0.60
3:D:65:ARG:HB3	5:F:375:LEU:O	2.02	0.60
3:D:167:GLU:O	3:D:394:LEU:HA	2.02	0.60
3:D:302:GLN:N	3:D:303:PRO:HD2	2.16	0.60
3:D:400:VAL:HG23	3:D:443:VAL:HG11	1.81	0.60
3:D:699:VAL:HG12	3:D:717:GLN:CG	2.31	0.60
3:D:1000:THR:HG23	3:D:1041:LEU:HD23	1.83	0.60
3:D:1041:LEU:CD1	3:D:1058:ARG:HA	2.32	0.60
3:D:1066:THR:N	3:D:1069:GLU:HB2	2.16	0.60
3:D:1286:THR:CG2	3:D:1289:LYS:H	2.15	0.60
5:F:175:HIS:O	5:F:178:ARG:HB2	2.02	0.60
2:M:369:PRO:O	2:M:372:LEU:HD21	2.01	0.60
3:N:617:ASN:HB3	3:N:619:LEU:HG	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:867:ARG:HA	3:N:871:LYS:O	2.01	0.60
3:N:1208:ASP:CG	3:N:1211:MET:HG2	2.22	0.60
3:N:1268:PRO:O	3:N:1271:LYS:HB2	2.02	0.60
5:P:169:GLU:H	5:P:169:GLU:CD	2.04	0.60
2:C:185:LYS:HE2	2:C:190:LYS:NZ	2.17	0.60
2:C:474:VAL:HG12	2:C:530:GLU:C	2.22	0.60
2:C:504:GLU:HG3	2:C:507:ARG:HD2	1.84	0.60
2:C:683:ASN:H	2:C:683:ASN:HD22	1.50	0.60
2:C:710:ILE:HD13	2:C:790:LEU:HB2	1.83	0.60
2:C:1048:THR:O	2:C:1051:GLU:HG3	2.02	0.60
3:D:295:GLY:C	3:D:302:GLN:HB3	2.21	0.60
3:D:297:ILE:HG23	3:D:298:VAL:N	2.17	0.60
3:D:463:GLN:HB3	3:D:467:GLU:OE2	2.01	0.60
3:D:911:LEU:O	3:D:914:LEU:HB3	2.02	0.60
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.83	0.60
5:F:234:LYS:CE	5:F:236:SER:HB3	2.32	0.60
1:K:152:PRO:CG	1:K:155:LYS:HB2	2.29	0.60
2:M:71:TYR:N	2:M:71:TYR:CD2	2.68	0.60
2:M:228:ALA:O	2:M:229:MET:HG3	2.02	0.60
3:N:252:ARG:HG3	3:N:300:LYS:CA	2.32	0.60
3:N:860:LEU:O	3:N:876:SER:HB2	2.01	0.60
3:N:939:PHE:O	3:N:940:THR:C	2.40	0.60
3:N:1107:VAL:CG1	3:N:1217:ILE:HA	2.32	0.60
3:N:1403:LEU:HB3	3:N:1408:ILE:HD12	1.83	0.60
5:P:298:GLY:O	5:P:303:ARG:NH1	2.35	0.60
5:P:367:MET:CE	5:P:371:LEU:HD21	2.32	0.60
2:C:12:VAL:HG23	2:C:13:ILE:HD12	1.84	0.59
2:C:18:LEU:C	2:C:20:GLU:H	2.04	0.59
2:C:93:PRO:HA	2:C:117:HIS:CB	2.31	0.59
2:C:233:GLU:CD	2:C:234:ALA:N	2.53	0.59
2:C:691:SER:CB	2:C:868:ASP:HA	2.31	0.59
3:D:259:VAL:HG21	3:D:292:VAL:O	2.02	0.59
3:D:408:GLU:OE2	3:D:422:ALA:HB2	2.01	0.59
3:D:483:HIS:HB2	3:D:484:PRO:CD	2.27	0.59
3:D:799:LYS:HB3	3:D:800:LYS:HE2	1.83	0.59
3:D:811:GLU:HB3	3:D:815:ALA:HB3	1.84	0.59
3:D:901:GLN:HB3	3:D:904:VAL:CG2	2.32	0.59
3:D:1117:TYR:C	3:D:1193:THR:HG21	2.22	0.59
3:D:1286:THR:HB	3:D:1289:LYS:H	1.66	0.59
1:K:36:LEU:O	1:K:39:PRO:HD2	2.02	0.59
1:K:86:VAL:CG1	1:K:123:MET:HB2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:100:LEU:CD2	1:K:101:LEU:H	2.12	0.59
1:K:211:LEU:O	1:K:214:ALA:HB3	2.02	0.59
1:L:5:LYS:C	1:L:7:LYS:N	2.55	0.59
1:L:99:LEU:HB3	1:L:114:PHE:CE2	2.37	0.59
1:L:209:GLU:O	1:L:213:GLN:HG3	2.02	0.59
2:M:1090:LYS:HE2	2:M:1112:PHE:CZ	2.37	0.59
3:N:32:ILE:HG12	3:N:39:PRO:HA	1.84	0.59
3:N:167:GLU:O	3:N:394:LEU:HA	2.02	0.59
3:N:433:GLY:HA3	3:N:448:GLU:HA	1.84	0.59
3:N:774:SER:HB3	3:N:1362:LYS:O	2.02	0.59
3:N:1173:LEU:O	3:N:1176:LYS:HB3	2.02	0.59
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.01	0.59
1:A:76:VAL:HA	1:A:79:ILE:CD1	2.27	0.59
2:C:154:ARG:HG2	2:C:156:GLY:H	1.67	0.59
2:C:182:VAL:HG21	2:C:194:VAL:CG2	2.32	0.59
2:C:492:ASP:CA	2:C:518:LYS:HB3	2.31	0.59
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.83	0.59
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.32	0.59
3:D:41:ARG:HH21	3:D:48:ARG:CZ	2.14	0.59
3:D:527:MET:HA	3:D:537:THR:HG23	1.83	0.59
5:F:353:GLU:HA	5:F:356:LYS:CG	2.31	0.59
1:K:11:PHE:HB2	1:L:224:TYR:O	2.02	0.59
2:M:401:LEU:O	2:M:405:ARG:N	2.34	0.59
2:M:498:GLN:HA	2:M:533:ASP:OD2	2.01	0.59
2:M:504:GLU:O	2:M:507:ARG:HD2	2.02	0.59
2:M:595:LEU:O	2:M:654:LEU:HD12	2.01	0.59
3:N:84:ILE:O	3:N:87:ARG:HG2	2.02	0.59
3:N:658:LEU:CA	3:N:661:MET:HE3	2.31	0.59
3:N:661:MET:O	3:N:664:LYS:O	2.21	0.59
1:A:35:THR:C	1:A:36:LEU:HD12	2.22	0.59
1:B:38:ASN:O	1:B:42:ARG:HG3	2.02	0.59
2:C:166:PRO:HG2	2:C:169:GLY:N	2.17	0.59
2:C:321:GLU:CD	2:C:321:GLU:H	2.06	0.59
2:C:585:GLU:HB2	2:C:665:PHE:CE2	2.36	0.59
2:C:1030:GLN:HG2	3:D:626:SER:HB2	1.83	0.59
3:D:103:TRP:CZ2	3:D:604:THR:HG23	2.37	0.59
3:D:400:VAL:HG22	3:D:402:PRO:HD3	1.84	0.59
3:D:639:LEU:HD12	3:D:639:LEU:O	2.01	0.59
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.32	0.59
3:D:1031:ASN:OD1	3:D:1034:GLN:HG3	2.01	0.59
3:D:1121:PRO:HG2	3:D:1135:ARG:HH11	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1170:ASP:O	3:D:1173:LEU:HB3	2.02	0.59
3:D:1405:GLU:CG	3:D:1406:ARG:H	2.14	0.59
1:K:218:LEU:O	1:K:221:HIS:HB2	2.02	0.59
2:M:333:ILE:HG22	2:M:465:GLY:O	2.02	0.59
2:M:474:VAL:HG12	2:M:530:GLU:C	2.22	0.59
2:M:497:ALA:HA	2:M:515:ALA:HA	1.84	0.59
2:M:504:GLU:HG3	2:M:507:ARG:HB2	1.84	0.59
2:M:713:ARG:HD2	2:M:720:GLU:OE2	2.01	0.59
3:N:135:LEU:HD12	3:N:148:GLU:CB	2.33	0.59
3:N:408:GLU:HB2	3:N:421:LEU:O	2.02	0.59
3:N:960:LYS:HG2	3:N:964:LEU:CD1	2.32	0.59
3:N:966:GLU:HA	3:N:969:ARG:NE	2.17	0.59
3:N:968:ASP:O	3:N:971:LEU:HB2	2.03	0.59
3:N:1273:VAL:HG23	3:N:1325:LEU:HB2	1.84	0.59
3:N:1341:PRO:O	3:N:1344:VAL:N	2.35	0.59
5:P:300:ASP:HB3	5:P:302:LYS:HZ2	1.67	0.59
1:A:78:ILE:O	1:A:82:LEU:HG	2.02	0.59
1:A:181:VAL:HG13	1:A:193:ASP:HB3	1.85	0.59
1:B:59:GLU:HB2	1:B:139:ASN:HD22	1.67	0.59
1:B:176:ARG:HB3	1:B:200:TRP:CD1	2.37	0.59
2:C:17:PRO:HD2	2:C:20:GLU:OE1	2.01	0.59
2:C:166:PRO:HG3	2:C:263:ASP:HA	1.84	0.59
2:C:430:VAL:O	2:C:430:VAL:HG13	2.02	0.59
2:C:682:TYR:CE1	2:C:851:LYS:HD2	2.37	0.59
2:C:807:ARG:C	2:C:809:GLY:N	2.52	0.59
2:C:930:LYS:C	2:C:932:GLU:H	2.04	0.59
3:D:433:GLY:C	3:D:434:ARG:HD2	2.23	0.59
3:D:658:LEU:HD23	3:D:661:MET:CE	2.32	0.59
3:D:921:ARG:HB3	3:D:921:ARG:NH1	2.17	0.59
3:D:1048:PRO:HA	3:D:1079:LYS:HE3	1.83	0.59
3:D:1066:THR:HG22	3:D:1068:LEU:H	1.67	0.59
3:D:1288:GLU:O	3:D:1307:LYS:HD3	2.03	0.59
3:D:1335:LEU:CD2	3:D:1344:VAL:HA	2.32	0.59
1:L:201:THR:CG2	1:L:207:PRO:HA	2.32	0.59
2:M:164:PRO:HG3	2:M:170:PRO:HB2	1.83	0.59
2:M:198:ARG:NH2	2:M:231:PRO:HD3	2.16	0.59
2:M:226:VAL:HA	2:M:229:MET:SD	2.42	0.59
2:M:617:ASP:OD2	2:M:619:ARG:HG3	2.03	0.59
3:N:140:ALA:N	3:N:450:TYR:CE2	2.70	0.59
3:N:149:LYS:HE2	3:N:151:GLN:HG3	1.83	0.59
3:N:361:VAL:CG1	3:N:379:ALA:HB1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:362:GLU:H	3:N:365:ASP:HB2	1.66	0.59
3:N:605:ASP:O	3:N:609:GLY:HA2	2.02	0.59
3:N:984:THR:HG22	3:N:987:GLU:CB	2.33	0.59
2:C:283:ILE:CG2	2:C:284:ARG:H	2.03	0.59
2:C:571:LEU:HD13	2:C:699:PHE:O	2.02	0.59
2:C:929:ARG:O	2:C:934:PHE:HB2	2.03	0.59
3:D:163:TYR:O	3:D:447:VAL:HG11	2.02	0.59
3:D:820:GLU:CG	3:D:836:VAL:HG11	2.26	0.59
3:D:1047:LYS:HD2	3:D:1051:GLU:CG	2.32	0.59
2:M:31:GLN:NE2	2:M:40:GLU:O	2.35	0.59
2:M:187:ASN:O	2:M:188:LYS:HG3	2.02	0.59
2:M:261:ILE:C	2:M:288:ARG:HH21	2.06	0.59
2:M:688:ILE:HD11	2:M:847:GLY:HA3	1.84	0.59
2:M:881:ASN:N	2:M:881:ASN:ND2	2.50	0.59
3:N:387:LEU:H	3:N:387:LEU:CD1	2.16	0.59
3:N:527:MET:SD	3:N:537:THR:HG21	2.42	0.59
3:N:551:ASN:O	3:N:555:LYS:HG3	2.01	0.59
3:N:1161:GLU:HG3	3:N:1164:ARG:CB	2.32	0.59
2:C:140:ILE:HG23	2:C:410:ILE:HG21	1.84	0.59
2:C:205:GLU:CA	2:C:209:ARG:HH11	2.16	0.59
2:C:816:LYS:H	2:C:816:LYS:HD2	1.68	0.59
3:D:826:PRO:HB2	3:D:829:VAL:HG13	1.82	0.59
3:D:995:LEU:HG	3:D:996:TRP:N	2.17	0.59
4:E:87:LYS:HG2	4:E:88:GLU:N	2.17	0.59
5:F:77:THR:HG23	5:F:77:THR:O	2.03	0.59
5:F:167:PRO:HD2	5:F:170:HIS:HD2	1.66	0.59
5:F:204:GLY:O	5:F:206:GLY:N	2.36	0.59
5:F:330:GLY:HA2	5:F:333:ILE:HD12	1.82	0.59
1:K:14:ARG:CD	1:L:233:VAL:HA	2.32	0.59
1:K:176:ARG:CZ	2:M:865:THR:CG2	2.81	0.59
1:K:206:THR:HB	1:K:209:GLU:CD	2.22	0.59
1:L:98:THR:HA	1:L:142:VAL:O	2.02	0.59
2:M:385:PHE:HD1	2:M:389:SER:HB2	1.68	0.59
2:M:776:SER:HB3	5:P:379:ARG:NH2	2.14	0.59
2:M:841:ASN:ND2	2:M:845:ASN:HB3	2.18	0.59
3:N:204:LEU:O	3:N:393:ILE:HG23	2.03	0.59
3:N:297:ILE:CG2	3:N:298:VAL:H	2.13	0.59
3:N:1147:ARG:O	3:N:1166:LEU:HG	2.03	0.59
3:N:1398:TRP:O	3:N:1402:ALA:N	2.35	0.59
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.32	0.59
3:D:1495:ILE:HG13	4:E:84:ARG:HH12	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:ILE:CG2	1:K:124:ASN:H	2.08	0.59
1:L:56:VAL:HG12	1:L:57:TYR:N	2.17	0.59
2:M:405:ARG:NH2	2:M:409:ARG:CZ	2.65	0.59
2:M:1068:GLU:O	2:M:1072:LYS:HG2	2.03	0.59
3:N:334:THR:C	3:N:335:LEU:HD12	2.23	0.59
5:P:184:ARG:O	5:P:188:ILE:HG13	2.02	0.59
5:P:370:LYS:HA	5:P:374:GLY:HA3	1.83	0.59
2:C:560:MET:HB3	2:C:564:MET:CE	2.33	0.59
3:D:165:LYS:O	3:D:396:VAL:HA	2.02	0.59
3:D:355:VAL:HG13	3:D:356:PRO:HD2	1.85	0.59
3:D:565:ILE:HG23	3:D:566:ILE:H	1.67	0.59
3:D:807:ALA:HA	3:D:833:GLU:CG	2.32	0.59
2:M:42:VAL:CG1	2:M:43:GLY:N	2.66	0.59
2:M:69:LEU:HB3	2:M:97:ARG:HB2	1.85	0.59
2:M:101:ILE:CG2	2:M:102:HIS:H	2.14	0.59
2:M:195:LEU:HB3	2:M:238:LEU:HD21	1.84	0.59
2:M:310:LEU:O	2:M:314:THR:HG23	2.02	0.59
2:M:355:VAL:HA	2:M:358:ARG:HE	1.67	0.59
2:M:463:GLU:CD	2:M:463:GLU:H	2.06	0.59
3:N:475:LYS:O	3:N:478:LEU:HB3	2.03	0.59
3:N:1434:TRP:CE3	3:N:1457:ASP:HB2	2.38	0.59
1:B:41:ARG:HG3	1:B:41:ARG:HH11	1.68	0.59
1:B:112:ARG:HH11	1:B:112:ARG:CB	2.16	0.59
2:C:269:LEU:HD12	2:C:288:ARG:CB	2.31	0.59
2:C:632:ASN:HB3	2:C:633:GLN:HE22	1.67	0.59
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.83	0.59
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.38	0.59
3:D:881:LEU:O	3:D:885:ILE:HG13	2.02	0.59
3:D:1489:GLN:NE2	4:E:72:ARG:HA	2.17	0.59
5:F:79:ASP:OD1	5:F:82:ARG:HB2	2.03	0.59
1:L:76:VAL:O	1:L:79:ILE:HB	2.02	0.59
2:M:198:ARG:HE	2:M:231:PRO:CD	2.15	0.59
2:M:243:ARG:HG3	2:M:244:PRO:CA	2.24	0.59
3:N:10:ILE:O	3:N:10:ILE:HG23	2.03	0.59
3:N:58:CYS:HB2	3:N:76:CYS:SG	2.42	0.59
3:N:252:ARG:HG3	3:N:300:LYS:HA	1.84	0.59
3:N:1108:ARG:NE	3:N:1199:GLY:HA3	2.18	0.59
3:N:1217:ILE:HD12	3:N:1217:ILE:N	2.05	0.59
5:P:77:THR:O	5:P:79:ASP:N	2.36	0.59
5:P:111:GLU:HG3	5:P:114:LYS:NZ	2.15	0.59
5:P:111:GLU:O	5:P:114:LYS:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:222:ARG:HG2	5:P:242:TRP:CZ3	2.37	0.59
5:P:386:VAL:HG23	5:P:387:GLY:H	1.67	0.59
1:B:238:GLU:HB3	1:B:240:LYS:HZ2	1.68	0.59
2:C:917:LEU:HD23	2:C:920:GLN:OE1	2.03	0.59
3:D:966:GLU:HA	3:D:969:ARG:CZ	2.33	0.59
3:D:1085:ALA:HA	3:D:1088:THR:CG2	2.32	0.59
3:D:1422:MET:SD	3:D:1427:SER:HA	2.43	0.59
3:D:1474:ALA:O	3:D:1477:GLY:N	2.36	0.59
5:F:392:VAL:CG1	5:F:396:ARG:HD3	2.30	0.59
1:K:188:GLN:CG	1:K:189:ARG:H	2.03	0.59
1:L:42:ARG:HH22	2:M:939:ARG:NH2	2.00	0.59
2:M:588:VAL:CG2	2:M:589:ARG:N	2.64	0.59
2:M:712:ALA:O	2:M:820:ARG:HG3	2.03	0.59
2:M:1005:MET:HG2	3:N:629:SER:CB	2.31	0.59
3:N:121:THR:O	3:N:122:GLU:C	2.40	0.59
3:N:554:LEU:O	3:N:555:LYS:C	2.41	0.59
5:P:329:TYR:O	5:P:332:PHE:HD1	1.84	0.59
1:B:235:ALA:CB	1:B:236:PRO:HD3	2.30	0.58
2:C:421:GLU:O	2:C:421:GLU:HG2	2.02	0.58
3:D:248:PRO:CB	3:D:308:LYS:HZ1	2.16	0.58
3:D:274:ARG:NE	3:D:279:VAL:HG11	2.17	0.58
3:D:800:LYS:HZ1	3:D:826:PRO:HD3	1.68	0.58
3:D:1403:LEU:HD23	3:D:1408:ILE:HD11	1.82	0.58
1:K:88:ARG:HD2	1:K:90:LEU:HD23	1.84	0.58
1:K:111:ALA:CA	1:K:129:ILE:HD11	2.31	0.58
2:M:185:LYS:CG	2:M:190:LYS:HD3	2.29	0.58
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.31	0.58
2:M:582:GLY:O	2:M:584:GLU:HG2	2.03	0.58
2:M:813:VAL:CG1	2:M:815:LEU:HG	2.33	0.58
3:N:127:LEU:HD23	3:N:128:TYR:CA	2.32	0.58
3:N:225:LEU:HD12	3:N:333:LEU:CD1	2.32	0.58
3:N:1376:MET:HA	3:N:1376:MET:HE2	1.84	0.58
3:N:1491:THR:C	3:N:1493:LYS:H	2.06	0.58
4:O:33:HIS:HB2	4:O:37:ASN:OD1	2.02	0.58
2:C:399:ASN:HB2	2:C:400:PRO:CD	2.33	0.58
3:D:211:VAL:HG13	3:D:386:HIS:O	2.03	0.58
3:D:525:ARG:N	3:D:526:PRO:CD	2.63	0.58
4:E:28:GLN:O	4:E:32:ARG:HG3	2.03	0.58
1:K:184:THR:HG23	1:K:192:LEU:HB2	1.85	0.58
2:M:301:GLU:HA	2:M:304:LEU:CD2	2.26	0.58
2:M:545:ASN:HB3	2:M:583:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:595:LEU:HD21	2:M:639:GLN:HE22	1.67	0.58
2:M:815:LEU:HD11	2:M:821:GLU:HA	1.85	0.58
3:N:1068:LEU:O	3:N:1072:ILE:HG13	2.04	0.58
1:A:169:ALA:HB1	1:A:171:PHE:CE1	2.38	0.58
1:B:44:LEU:O	1:B:174:VAL:HG21	2.03	0.58
1:B:154:GLU:HG2	3:D:840:LYS:HE3	1.85	0.58
2:C:1:MET:CB	2:C:899:GLN:HA	2.33	0.58
2:C:267:TYR:CB	2:C:272:ALA:HB2	2.16	0.58
3:D:274:ARG:CB	3:D:279:VAL:HG21	2.17	0.58
3:D:564:GLU:O	3:D:567:ILE:HB	2.03	0.58
3:D:972:LEU:N	3:D:972:LEU:HD22	2.18	0.58
3:D:1384:PRO:HB3	3:D:1387:SER:O	2.04	0.58
3:D:1498:ALA:HB3	4:E:84:ARG:NE	2.19	0.58
5:F:172:ARG:HG3	5:F:173:TYR:N	2.17	0.58
5:F:269:ASN:O	5:F:273:ARG:HG3	2.03	0.58
5:F:303:ARG:O	5:F:304:VAL:C	2.40	0.58
2:M:232:GLU:O	2:M:236:ILE:HG13	2.03	0.58
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.32	0.58
2:M:774:LEU:HD23	5:P:418:LEU:HD23	1.84	0.58
3:N:167:GLU:HB3	3:N:169:TYR:CZ	2.38	0.58
3:N:167:GLU:HB3	3:N:169:TYR:OH	2.02	0.58
3:N:699:VAL:CG1	3:N:717:GLN:HG2	2.28	0.58
3:N:917:GLN:O	3:N:921:ARG:HG2	2.03	0.58
3:N:1035:ILE:O	3:N:1038:LEU:N	2.36	0.58
4:O:49:GLN:HA	4:O:53:GLY:O	2.03	0.58
2:C:176:VAL:C	2:C:178:PRO:HD3	2.22	0.58
2:C:198:ARG:HA	2:C:202:TYR:O	2.03	0.58
2:C:615:TYR:O	2:C:618:GLY:N	2.37	0.58
2:C:874:LEU:HD13	3:D:783:ARG:HB3	1.86	0.58
2:C:1054:THR:HG22	2:C:1082:PRO:HG3	1.86	0.58
3:D:241:ILE:HG13	3:D:312:ARG:CZ	2.33	0.58
3:D:408:GLU:OE1	3:D:444:VAL:HG11	2.03	0.58
3:D:792:ILE:HG21	3:D:941:PHE:CD1	2.37	0.58
3:D:887:ALA:CB	3:D:893:GLU:HA	2.33	0.58
3:D:894:LYS:O	3:D:898:GLU:HG3	2.02	0.58
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.38	0.58
5:F:147:LEU:O	5:F:148:LYS:HB2	2.02	0.58
1:K:9:PRO:HG2	1:K:28:LEU:CD2	2.33	0.58
1:K:74:ASP:O	1:K:75:VAL:C	2.42	0.58
1:K:75:VAL:O	1:K:79:ILE:HG13	2.04	0.58
1:L:52:ALA:HB1	1:L:170:VAL:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.84	0.58
2:M:385:PHE:O	2:M:389:SER:N	2.37	0.58
2:M:835:VAL:HA	2:M:849:VAL:CG1	2.34	0.58
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.03	0.58
2:M:1072:LYS:HB2	2:M:1074:GLU:HG3	1.84	0.58
3:N:280:ALA:HB1	3:N:282:TYR:CE1	2.38	0.58
3:N:799:LYS:H	3:N:829:VAL:CG1	2.16	0.58
3:N:826:PRO:HD2	3:N:829:VAL:CG1	2.30	0.58
3:N:1086:LEU:HD12	3:N:1238:MET:SD	2.44	0.58
3:N:1117:TYR:CA	3:N:1193:THR:HG21	2.32	0.58
3:N:1398:TRP:HA	3:N:1401:GLU:HB2	1.84	0.58
4:O:61:GLU:H	4:O:61:GLU:CD	2.07	0.58
2:C:18:LEU:C	2:C:20:GLU:N	2.54	0.58
2:C:122:THR:HG22	2:C:123:GLU:H	1.68	0.58
2:C:204:GLN:NE2	2:C:225:SER:HB3	2.18	0.58
2:C:614:ARG:HE	2:C:618:GLY:HA2	1.68	0.58
2:C:710:ILE:CG2	2:C:823:VAL:HB	2.32	0.58
2:C:937:ASP:O	2:C:940:GLU:HB2	2.04	0.58
3:D:241:ILE:HG12	3:D:312:ARG:CG	2.33	0.58
3:D:252:ARG:HA	3:D:301:GLY:HA3	1.85	0.58
5:F:113:ILE:HA	5:F:116:LEU:CD1	2.23	0.58
5:F:223:ALA:HB2	5:F:242:TRP:CB	2.33	0.58
5:F:321:ILE:HD11	5:F:329:TYR:N	2.18	0.58
5:F:371:LEU:HA	5:F:375:LEU:CG	2.31	0.58
1:K:107:LYS:HE2	1:K:108:GLU:O	2.04	0.58
1:L:128:HIS:HE1	1:L:131:THR:HG23	1.69	0.58
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.28	0.58
2:M:327:HIS:HB3	2:M:330:ASN:ND2	2.18	0.58
2:M:712:ALA:HB3	2:M:821:GLU:H	1.68	0.58
2:M:906:PHE:HZ	3:N:1070:TYR:CD2	2.21	0.58
3:N:796:ARG:NE	3:N:861:GLN:HB2	2.18	0.58
5:P:167:PRO:HD2	5:P:170:HIS:HD2	1.67	0.58
2:C:195:LEU:H	2:C:195:LEU:CD2	1.93	0.58
2:C:467:ILE:HG22	2:C:468:ARG:N	2.18	0.58
3:D:160:GLU:C	3:D:161:LEU:HD23	2.24	0.58
3:D:298:VAL:HB	3:D:300:LYS:HE3	1.86	0.58
3:D:490:ALA:O	3:D:493:ARG:HG2	2.03	0.58
3:D:540:LEU:O	3:D:544:TYR:N	2.33	0.58
3:D:542:ASP:HA	3:D:545:ARG:HG3	1.84	0.58
3:D:563:PRO:HG3	5:F:185:GLN:OE1	2.04	0.58
3:D:591:VAL:HG12	3:D:599:PRO:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LYS:H	3:D:800:LYS:CD	2.17	0.58
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.39	0.58
3:D:990:ASP:C	3:D:994:GLN:HE21	2.07	0.58
4:E:84:ARG:O	4:E:87:LYS:HB3	2.04	0.58
5:F:85:LEU:C	5:F:87:GLU:H	2.07	0.58
5:F:189:GLU:CA	5:F:192:LEU:HG	2.26	0.58
1:K:122:ILE:HG22	1:K:123:MET:N	2.17	0.58
1:L:23:PHE:N	1:L:23:PHE:CD1	2.71	0.58
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.84	0.58
2:M:857:ASP:CB	2:M:978:ARG:HG2	2.34	0.58
2:M:1098:ASP:HB2	3:N:17:LYS:CE	2.33	0.58
3:N:27:GLU:C	3:N:28:LYS:HD3	2.24	0.58
3:N:100:ALA:HA	3:N:513:ILE:HD12	1.85	0.58
3:N:221:ALA:O	3:N:334:THR:HG23	2.04	0.58
3:N:536:ALA:C	5:P:317:LEU:HD21	2.24	0.58
3:N:661:MET:HB3	3:N:667:ALA:HB2	1.85	0.58
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.68	0.58
5:P:157:GLU:H	5:P:157:GLU:CD	2.06	0.58
5:P:214:GLN:O	5:P:217:ASN:HB2	2.04	0.58
5:P:270:LYS:HE3	5:P:295:MET:SD	2.43	0.58
5:P:382:THR:HG23	5:P:397:ILE:HG21	1.85	0.58
2:C:73:LEU:HB3	2:C:93:PRO:O	2.03	0.58
2:C:122:THR:HG22	2:C:123:GLU:N	2.17	0.58
2:C:511:GLU:O	2:C:525:SER:HA	2.04	0.58
2:C:572:ILE:CD1	2:C:701:THR:HB	2.33	0.58
3:D:99:ALA:O	3:D:514:LEU:HB2	2.03	0.58
3:D:152:LEU:HG	3:D:153:LEU:N	2.18	0.58
3:D:438:ASP:O	3:D:439:LEU:HD23	2.03	0.58
4:E:84:ARG:O	4:E:88:GLU:HG2	2.04	0.58
1:K:138:LEU:HD21	1:K:140:MET:HE3	1.86	0.58
2:M:310:LEU:HD12	2:M:314:THR:HG23	1.86	0.58
3:N:149:LYS:HG2	3:N:150:ARG:HG2	1.84	0.58
3:N:187:LYS:HG3	3:N:198:ARG:HA	1.86	0.58
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.03	0.58
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.39	0.58
2:C:100:LEU:HD21	2:C:367:LEU:CD2	2.33	0.58
2:C:232:GLU:O	2:C:235:LEU:HB3	2.04	0.58
2:C:293:PHE:CD1	2:C:294:GLU:HG3	2.39	0.58
2:C:636:ALA:O	2:C:637:LEU:HD23	2.04	0.58
2:C:676:ILE:CD1	3:D:949:ILE:HB	2.34	0.58
2:C:764:GLU:HB3	2:C:766:GLU:OE2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:988:VAL:N	3:D:948:THR:HG21	2.18	0.58
3:D:142:LEU:HD23	3:D:146:PRO:HA	1.85	0.58
3:D:528:VAL:HG12	3:D:529:GLN:O	2.04	0.58
3:D:653:PHE:CD1	3:D:653:PHE:N	2.71	0.58
3:D:1147:ARG:O	3:D:1166:LEU:HG	2.04	0.58
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.86	0.58
3:D:1463:LYS:O	3:D:1467:ILE:HG22	2.04	0.58
3:D:1478:SER:C	3:D:1482:ARG:HG3	2.24	0.58
1:L:33:GLY:O	1:L:195:LEU:HD22	2.03	0.58
2:M:884:GLN:O	2:M:887:GLU:HB3	2.04	0.58
3:N:131:LYS:HB2	3:N:456:MET:HE2	1.85	0.58
3:N:167:GLU:C	3:N:394:LEU:HD12	2.24	0.58
3:N:230:TRP:HE1	3:N:233:LYS:CG	2.16	0.58
3:N:245:LEU:CA	3:N:309:GLY:H	2.07	0.58
3:N:653:PHE:N	3:N:653:PHE:CD1	2.70	0.58
3:N:1159:ARG:O	3:N:1160:LEU:HD23	2.04	0.58
3:N:1182:GLU:O	3:N:1182:GLU:HG2	2.02	0.58
1:A:109:VAL:HG12	1:A:129:ILE:HB	1.86	0.58
2:C:73:LEU:HB3	2:C:94:LEU:HA	1.85	0.58
3:D:153:LEU:HG	3:D:154:THR:N	2.19	0.58
3:D:325:GLU:CG	3:D:332:TYR:HB3	2.34	0.58
3:D:465:LEU:HD22	3:D:509:PRO:HB2	1.84	0.58
3:D:563:PRO:O	3:D:565:ILE:N	2.36	0.58
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.86	0.58
4:E:39:VAL:CG1	4:E:72:ARG:HB3	2.33	0.58
5:F:94:LEU:HD11	5:F:190:ALA:HB3	1.86	0.58
2:M:939:ARG:HD2	2:M:982:PRO:CD	2.33	0.58
2:M:1031:ARG:HB2	3:N:622:ARG:NH1	2.18	0.58
3:N:172:PRO:HB2	3:N:175:VAL:HG21	1.86	0.58
3:N:456:MET:N	3:N:456:MET:SD	2.77	0.58
3:N:858:VAL:CG1	3:N:859:ASP:N	2.67	0.58
3:N:1067:VAL:HG13	3:N:1068:LEU:H	1.68	0.58
3:N:1446:VAL:O	3:N:1449:GLU:HG2	2.03	0.58
5:P:355:GLU:OE1	5:P:356:LYS:N	2.36	0.58
1:A:80:LEU:O	1:A:83:LYS:HB2	2.04	0.58
2:C:639:GLN:HA	2:C:657:ASP:O	2.03	0.58
2:C:949:LYS:HZ3	3:D:796:ARG:NH1	2.02	0.58
2:C:994:ILE:HG22	2:C:995:MET:N	2.18	0.58
3:D:165:LYS:O	3:D:396:VAL:HG23	2.02	0.58
3:D:288:MET:SD	3:D:305:ALA:HB1	2.43	0.58
3:D:801:GLY:CA	3:D:830:ALA:HB3	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:953:ASP:O	3:D:955:VAL:HG23	2.04	0.58
3:D:1104:GLU:O	3:D:1108:ARG:NH2	2.37	0.58
2:M:432:ARG:HG3	2:M:433:THR:N	2.19	0.58
2:M:596:TYR:HA	2:M:653:ASP:O	2.04	0.58
2:M:807:ARG:C	2:M:809:GLY:N	2.51	0.58
2:M:1037:VAL:HG13	2:M:1049:LEU:HD21	1.86	0.58
3:N:135:LEU:CD1	3:N:148:GLU:HB2	2.32	0.58
3:N:153:LEU:HD21	3:N:158:TYR:CA	2.34	0.58
3:N:266:GLU:HB3	3:N:286:VAL:HG22	1.84	0.58
3:N:587:ARG:NH1	3:N:587:ARG:HB3	2.19	0.58
3:N:656:PHE:CZ	3:N:751:LEU:HD23	2.39	0.58
3:N:1066:THR:O	3:N:1067:VAL:C	2.42	0.58
5:P:95:THR:O	5:P:98:GLU:N	2.37	0.58
2:C:523:ILE:O	2:C:524:VAL:HG13	2.03	0.57
3:D:222:GLY:HA2	3:D:333:LEU:O	2.03	0.57
3:D:406:ASP:HB2	3:D:423:ASP:C	2.24	0.57
3:D:418:GLY:O	3:D:428:LYS:HE2	2.04	0.57
1:K:45:LEU:HB2	2:M:856:GLU:HG3	1.86	0.57
1:K:76:VAL:HA	1:K:79:ILE:CD1	2.30	0.57
1:K:143:ARG:HH11	1:K:158:ILE:HG23	1.68	0.57
1:L:28:LEU:HD22	1:L:32:PHE:HB2	1.86	0.57
2:M:23:VAL:HG23	2:M:24:GLU:N	2.19	0.57
2:M:23:VAL:HG12	2:M:121:MET:HE1	1.85	0.57
2:M:261:ILE:CG2	2:M:262:ALA:H	2.17	0.57
2:M:327:HIS:CE1	2:M:488:ALA:HB1	2.39	0.57
2:M:833:LEU:HD11	2:M:837:ASP:HB2	1.86	0.57
3:N:266:GLU:HB3	3:N:286:VAL:HG21	1.83	0.57
3:N:502:PHE:CE2	3:N:1452:ILE:HG23	2.39	0.57
3:N:930:LEU:HG	3:N:934:LEU:HD11	1.86	0.57
3:N:1489:GLN:NE2	4:O:73:LEU:N	2.52	0.57
5:P:171:LYS:O	5:P:174:LEU:HB3	2.03	0.57
5:P:262:VAL:C	5:P:264:MET:N	2.54	0.57
5:P:379:ARG:HH11	5:P:379:ARG:HB2	1.68	0.57
5:P:382:THR:HG22	5:P:394:ARG:HA	1.85	0.57
2:C:987:ILE:CA	3:D:948:THR:HG21	2.34	0.57
3:D:284:LEU:HD12	3:D:290:PRO:CB	2.28	0.57
3:D:474:GLU:OE2	3:D:475:LYS:HG3	2.04	0.57
3:D:499:VAL:HG12	3:D:503:LEU:HD12	1.84	0.57
3:D:875:THR:CG2	3:D:879:ARG:HG3	2.34	0.57
4:E:25:LYS:HA	4:E:28:GLN:CD	2.23	0.57
4:E:37:ASN:HA	4:E:93:TYR:CE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:413:SER:HA	5:F:416:ARG:NH2	2.19	0.57
1:L:36:LEU:O	1:L:40:LEU:HD12	2.04	0.57
3:N:269:PHE:HE2	3:N:271:VAL:HG22	1.68	0.57
3:N:661:MET:SD	3:N:673:ALA:HB1	2.44	0.57
3:N:788:GLY:HA3	3:N:938:GLY:O	2.04	0.57
3:N:1028:ALA:O	3:N:1029:ARG:HB2	2.03	0.57
3:N:1445:HIS:O	3:N:1449:GLU:HG2	2.04	0.57
2:C:39:ARG:O	2:C:40:GLU:HB2	2.04	0.57
2:C:182:VAL:HG22	2:C:221:LEU:HA	1.86	0.57
2:C:517:ARG:H	2:C:520:GLU:HB2	1.68	0.57
3:D:433:GLY:O	3:D:434:ARG:HD2	2.04	0.57
3:D:450:TYR:CE2	3:D:452:ILE:HG22	2.39	0.57
3:D:608:SER:HB2	3:D:614:PHE:CD1	2.39	0.57
3:D:800:LYS:NZ	3:D:826:PRO:HD3	2.19	0.57
3:D:1085:ALA:HA	3:D:1088:THR:HG22	1.85	0.57
3:D:1445:HIS:O	3:D:1449:GLU:HG2	2.04	0.57
4:E:40:LEU:HD21	4:E:44:GLU:CB	2.34	0.57
4:E:57:ASP:O	4:E:63:TRP:NE1	2.37	0.57
5:F:393:THR:HG22	5:F:394:ARG:N	2.19	0.57
1:L:90:LEU:HG	1:L:119:ASP:O	2.05	0.57
1:L:144:VAL:HG12	1:L:145:ASP:N	2.19	0.57
2:M:31:GLN:HA	2:M:35:PRO:HG2	1.87	0.57
2:M:38:LYS:HG3	2:M:39:ARG:N	2.16	0.57
2:M:289:THR:O	2:M:290:LEU:HD23	2.03	0.57
2:M:1069:ALA:HB1	2:M:1075:ASP:O	2.04	0.57
3:N:106:LYS:HB3	3:N:586:ARG:NH1	2.18	0.57
3:N:399:ARG:HB3	3:N:401:TYR:CE1	2.36	0.57
3:N:1149:LEU:HG	3:N:1162:GLU:HA	1.86	0.57
3:N:1333:HIS:HA	3:N:1421:LEU:HD23	1.84	0.57
3:N:1382:THR:O	3:N:1389:LEU:HD21	2.05	0.57
5:P:356:LYS:HD3	5:P:417:LYS:NZ	2.19	0.57
5:P:412:GLU:HA	5:P:412:GLU:OE2	2.03	0.57
1:A:10:VAL:HG12	1:A:12:THR:HG23	1.87	0.57
1:B:41:ARG:O	1:B:44:LEU:HB2	2.05	0.57
2:C:203:ASP:OD1	2:C:205:GLU:HB3	2.03	0.57
2:C:375:SER:C	2:C:377:PRO:HD2	2.25	0.57
2:C:773:LEU:O	2:C:777:ILE:HG13	2.04	0.57
2:C:914:ILE:H	2:C:914:ILE:HD12	1.68	0.57
2:C:1083:GLU:CD	3:D:88:TYR:HH	2.07	0.57
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.57
3:D:458:ALA:O	3:D:459:GLU:C	2.41	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:811:GLU:O	3:D:815:ALA:CB	2.50	0.57
3:D:903:ASP:O	3:D:904:VAL:HG13	2.03	0.57
3:D:1344:VAL:O	3:D:1347:TYR:HB3	2.04	0.57
1:L:85:LEU:HD12	1:L:86:VAL:N	2.19	0.57
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.17	0.57
2:M:41:ASN:HA	2:M:45:GLN:CB	2.32	0.57
2:M:128:ILE:HA	2:M:132:ALA:O	2.04	0.57
2:M:198:ARG:HH11	2:M:203:ASP:N	2.02	0.57
2:M:203:ASP:CB	2:M:228:ALA:O	2.51	0.57
2:M:601:GLY:O	2:M:648:ARG:HA	2.04	0.57
2:M:708:TYR:O	2:M:824:ARG:HA	2.05	0.57
3:N:537:THR:HA	5:P:317:LEU:HD11	1.87	0.57
3:N:793:THR:HG21	3:N:906:GLN:CG	2.34	0.57
3:N:854:ALA:C	3:N:856:GLY:H	2.08	0.57
3:N:986:ARG:O	3:N:987:GLU:C	2.42	0.57
3:N:1120:VAL:CB	3:N:1144:LEU:HD21	2.34	0.57
3:N:1167:SER:O	3:N:1170:ASP:HB2	2.03	0.57
5:P:278:LEU:O	5:P:279:GLN:C	2.43	0.57
2:C:479:VAL:HG23	2:C:506:ASN:O	2.04	0.57
2:C:630:ARG:HG3	2:C:634:GLY:HA2	1.85	0.57
2:C:713:ARG:HA	2:C:818:GLY:O	2.04	0.57
2:C:878:SER:C	2:C:879:ARG:HD2	2.25	0.57
2:C:910:LYS:HE3	2:C:912:PRO:HB2	1.86	0.57
3:D:227:LEU:HD11	3:D:327:GLU:N	2.19	0.57
3:D:247:GLU:HA	3:D:308:LYS:HZ3	1.68	0.57
3:D:540:LEU:O	3:D:541:ASN:C	2.43	0.57
3:D:674:ARG:NH2	5:F:342:VAL:HG13	2.19	0.57
3:D:800:LYS:CE	3:D:800:LYS:H	2.16	0.57
3:D:966:GLU:HA	3:D:969:ARG:NE	2.20	0.57
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.05	0.57
3:D:1468:LEU:HD23	3:D:1470:ARG:HB2	1.85	0.57
4:E:26:ARG:HH21	4:E:38:THR:HA	1.70	0.57
1:K:184:THR:O	1:K:192:LEU:HB2	2.05	0.57
2:M:173:ASP:O	2:M:174:LEU:HD23	2.03	0.57
2:M:205:GLU:HA	2:M:209:ARG:HH11	1.70	0.57
2:M:576:ALA:O	2:M:900:ARG:NH1	2.37	0.57
2:M:971:LYS:HA	2:M:988:VAL:HA	1.86	0.57
3:N:126:VAL:O	3:N:132:TYR:HD1	1.88	0.57
3:N:339:TRP:CH2	3:N:341:GLU:HG3	2.40	0.57
3:N:704:ARG:HB2	3:N:745:MET:SD	2.44	0.57
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:180:GLY:O	5:P:183:ALA:HB3	2.05	0.57
1:A:111:ALA:O	1:A:113:ASP:N	2.38	0.57
2:C:198:ARG:NE	2:C:231:PRO:HG3	2.19	0.57
2:C:444:PRO:HG3	2:C:452:ILE:HB	1.85	0.57
2:C:706:GLU:HG3	2:C:708:TYR:CE1	2.39	0.57
2:C:715:THR:HG22	2:C:717:LEU:H	1.68	0.57
2:C:799:ILE:O	2:C:799:ILE:HG13	2.04	0.57
2:C:882:LEU:O	2:C:885:ILE:N	2.38	0.57
2:C:1046:ALA:HA	3:D:1472:ILE:HB	1.85	0.57
3:D:80:VAL:O	3:D:81:THR:HG23	2.05	0.57
3:D:160:GLU:CD	3:D:165:LYS:HE2	2.25	0.57
3:D:546:ARG:O	3:D:549:ASN:HB2	2.05	0.57
3:D:965:GLU:O	3:D:967:ALA:N	2.37	0.57
3:D:1104:GLU:OE1	3:D:1104:GLU:N	2.37	0.57
3:D:1311:LEU:HG	3:D:1312:LEU:N	2.20	0.57
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.40	0.57
4:E:19:LEU:O	4:E:22:VAL:HB	2.04	0.57
4:E:86:GLN:O	4:E:90:GLU:N	2.37	0.57
5:F:192:LEU:HB3	11:F:424:HOH:O	2.05	0.57
3:N:133:ILE:HG23	3:N:456:MET:SD	2.45	0.57
3:N:217:LYS:HB2	3:N:339:TRP:CD1	2.39	0.57
3:N:522:PRO:CA	3:N:525:ARG:NH1	2.68	0.57
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.28	0.57
3:N:1046:GLN:CB	3:N:1052:THR:HA	2.34	0.57
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.69	0.57
5:P:295:MET:HG3	5:P:299:TRP:CD2	2.39	0.57
5:P:401:GLU:O	5:P:405:LEU:HG	2.05	0.57
1:A:57:TYR:O	1:A:140:MET:HB2	2.05	0.57
1:B:61:VAL:HG22	1:B:62:LEU:N	2.20	0.57
2:C:101:ILE:HD13	2:C:107:LEU:HD22	1.86	0.57
2:C:603:VAL:HG21	2:C:647:GLN:HB3	1.85	0.57
2:C:805:ARG:NE	2:C:807:ARG:HH21	2.02	0.57
3:D:119:SER:N	3:D:123:LEU:HB2	2.20	0.57
3:D:223:LEU:HG	3:D:224:ARG:N	2.14	0.57
3:D:671:LYS:HE2	3:D:675:ARG:HD3	1.87	0.57
3:D:844:ALA:O	3:D:867:ARG:HD2	2.04	0.57
3:D:1048:PRO:HG3	3:D:1075:HIS:CD2	2.34	0.57
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.69	0.57
3:D:1156:LEU:HD12	3:D:1173:LEU:HD11	1.87	0.57
5:F:163:LEU:HA	5:F:166:LEU:CD1	2.35	0.57
1:K:25:LEU:HD21	1:L:224:TYR:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:124:ASN:HB3	1:K:127:LEU:HB2	1.87	0.57
2:M:604:ALA:HB3	2:M:612:VAL:O	2.05	0.57
3:N:125:GLN:HG3	3:N:126:VAL:N	2.19	0.57
3:N:219:GLU:HG2	3:N:220:ARG:N	2.15	0.57
3:N:241:ILE:HG12	3:N:312:ARG:CG	2.32	0.57
3:N:252:ARG:NE	3:N:300:LYS:HA	2.16	0.57
3:N:257:GLY:HA2	3:N:274:ARG:CA	2.32	0.57
5:P:213:ILE:HG22	5:P:217:ASN:ND2	2.19	0.57
5:P:352:GLU:O	5:P:354:LEU:N	2.37	0.57
2:C:148:PHE:N	2:C:323:ASP:OD2	2.31	0.57
2:C:194:VAL:CA	2:C:197:LEU:HG	2.35	0.57
2:C:415:PRO:CB	2:C:418:LEU:HB2	2.29	0.57
2:C:488:ALA:O	2:C:491:GLU:HB3	2.05	0.57
2:C:596:TYR:HA	2:C:653:ASP:O	2.05	0.57
2:C:597:ALA:N	2:C:653:ASP:O	2.38	0.57
2:C:841:ASN:HD21	2:C:845:ASN:CB	2.18	0.57
3:D:5:VAL:HG22	3:D:6:ARG:N	2.19	0.57
3:D:108:VAL:CG1	3:D:109:PRO:HA	2.34	0.57
3:D:537:THR:C	5:F:317:LEU:HG	2.24	0.57
3:D:591:VAL:HB	3:D:598:ARG:O	2.05	0.57
3:D:800:LYS:H	3:D:800:LYS:HD2	1.69	0.57
3:D:924:MET:HG2	4:E:7:ASP:OD2	2.05	0.57
3:D:924:MET:O	3:D:927:THR:HB	2.05	0.57
3:D:1293:PHE:CZ	3:D:1300:SER:HB3	2.40	0.57
5:F:277:GLN:HA	5:F:280:GLN:CD	2.25	0.57
5:F:386:VAL:CG2	5:F:387:GLY:H	2.16	0.57
1:K:100:LEU:HD22	1:K:102:LYS:HE3	1.87	0.57
2:M:53:PRO:HB3	2:M:67:ASP:CG	2.25	0.57
2:M:369:PRO:HD2	2:M:371:LYS:HD2	1.87	0.57
3:N:284:LEU:HD12	3:N:290:PRO:HB3	1.85	0.57
3:N:584:ASN:ND2	3:N:590:PRO:HG2	2.18	0.57
3:N:771:SER:CB	3:N:778:LEU:HD22	2.34	0.57
3:N:858:VAL:CG1	3:N:859:ASP:H	2.17	0.57
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.20	0.57
4:O:82:GLU:O	4:O:85:LEU:HG	2.04	0.57
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.30	0.57
1:A:107:LYS:NZ	1:A:108:GLU:O	2.37	0.57
1:B:84:GLU:HB2	1:B:127:LEU:HD21	1.87	0.57
2:C:41:ASN:O	2:C:43:GLY:N	2.38	0.57
2:C:122:THR:HB	2:C:124:ASP:OD1	2.05	0.57
2:C:224:GLU:HB3	2:C:227:PHE:CD1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.87	0.57
2:C:345:ARG:O	2:C:348:LEU:HB3	2.05	0.57
2:C:882:LEU:O	2:C:883:GLY:C	2.43	0.57
2:C:1052:MET:O	2:C:1056:LYS:HB2	2.05	0.57
3:D:1464:GLU:O	3:D:1467:ILE:HG22	2.04	0.57
5:F:189:GLU:HA	5:F:192:LEU:CD1	2.33	0.57
1:K:1:MET:O	1:K:1:MET:SD	2.62	0.57
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.40	0.57
1:K:98:THR:CG2	1:K:141:GLU:HB3	2.35	0.57
1:L:5:LYS:C	1:L:7:LYS:H	2.07	0.57
1:L:206:THR:HG22	1:L:208:LEU:H	1.70	0.57
2:M:50:GLU:C	2:M:52:PHE:N	2.58	0.57
2:M:69:LEU:HD23	2:M:70:GLU:HG3	1.87	0.57
2:M:380:ALA:O	2:M:381:ALA:C	2.43	0.57
2:M:430:VAL:HG13	2:M:430:VAL:O	2.04	0.57
2:M:488:ALA:O	2:M:491:GLU:HB3	2.05	0.57
2:M:605:LYS:CB	2:M:610:ARG:HH21	2.16	0.57
3:N:45:PHE:O	3:N:47:GLU:N	2.37	0.57
3:N:457:GLY:O	3:N:461:ILE:HG12	2.05	0.57
3:N:653:PHE:O	3:N:654:LYS:C	2.42	0.57
3:N:732:VAL:C	3:N:734:GLU:N	2.57	0.57
3:N:788:GLY:H	3:N:942:SER:HB3	1.68	0.57
3:N:1042:ARG:HG2	3:N:1042:ARG:HH11	1.69	0.57
1:A:209:GLU:HA	1:A:212:ASN:ND2	2.20	0.57
2:C:69:LEU:CD2	2:C:70:GLU:HG3	2.34	0.57
2:C:513:VAL:O	2:C:523:ILE:HA	2.05	0.57
2:C:726:ILE:C	2:C:728:HIS:H	2.08	0.57
3:D:99:ALA:O	3:D:514:LEU:N	2.38	0.57
3:D:156:GLU:N	3:D:156:GLU:OE2	2.38	0.57
3:D:223:LEU:CG	3:D:224:ARG:H	2.13	0.57
3:D:530:VAL:HG22	3:D:534:ARG:O	2.04	0.57
3:D:821:VAL:C	3:D:823:LEU:H	2.07	0.57
5:F:245:GLN:HE21	5:F:245:GLN:CA	2.13	0.57
5:F:383:LEU:CD2	5:F:394:ARG:HD3	2.34	0.57
1:K:41:ARG:HA	1:K:44:LEU:HD12	1.87	0.57
1:K:86:VAL:HG21	1:K:202:ASP:HB2	1.86	0.57
1:L:38:ASN:O	1:L:41:ARG:HB3	2.04	0.57
1:L:163:ASN:O	1:L:165:ILE:HG13	2.05	0.57
2:M:193:LEU:CD2	2:M:307:LEU:HD22	2.34	0.57
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.33	0.57
3:N:673:ALA:CA	3:N:676:MET:HB3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:984:THR:HG22	3:N:987:GLU:HB2	1.87	0.57
3:N:1402:ALA:HA	3:N:1415:VAL:HG21	1.86	0.57
1:A:14:ARG:HG3	1:A:14:ARG:O	2.05	0.56
1:A:49:PRO:CA	1:A:148:VAL:HG12	2.35	0.56
1:A:124:ASN:HB2	1:A:127:LEU:HB2	1.87	0.56
2:C:504:GLU:O	2:C:506:ASN:N	2.38	0.56
2:C:654:LEU:CD1	2:C:655:LEU:H	2.12	0.56
2:C:914:ILE:HD12	2:C:914:ILE:N	2.20	0.56
2:C:1039:ALA:HA	3:D:1227:GLN:HE22	1.70	0.56
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.40	0.56
3:D:224:ARG:NH1	3:D:332:TYR:CD1	2.73	0.56
3:D:827:ILE:HG23	3:D:837:GLY:CA	2.34	0.56
5:F:261:PRO:HB2	5:F:264:MET:HG2	1.87	0.56
1:K:39:PRO:O	1:K:42:ARG:HB2	2.05	0.56
1:K:110:LYS:HB2	1:K:112:ARG:CG	2.28	0.56
2:M:122:THR:HG22	2:M:123:GLU:N	2.19	0.56
2:M:128:ILE:C	2:M:129:ILE:HD13	2.25	0.56
2:M:926:PHE:O	2:M:929:ARG:N	2.31	0.56
3:N:30:GLU:HG3	5:P:259:ARG:HB2	1.86	0.56
3:N:119:SER:N	3:N:123:LEU:HB2	2.20	0.56
3:N:250:LEU:HD13	3:N:306:GLU:HG2	1.86	0.56
3:N:662:GLU:HA	3:N:667:ALA:O	2.03	0.56
3:N:1292:VAL:HG12	3:N:1293:PHE:N	2.19	0.56
3:N:1479:ASP:HA	3:N:1483:PHE:HE1	1.70	0.56
5:P:245:GLN:CA	5:P:245:GLN:NE2	2.68	0.56
5:P:253:ASP:HA	5:P:259:ARG:HH12	1.69	0.56
2:C:293:PHE:HD1	2:C:294:GLU:HG3	1.68	0.56
2:C:577:PRO:HG3	2:C:993:PHE:CG	2.40	0.56
3:D:186:VAL:HG12	3:D:187:LYS:H	1.68	0.56
3:D:225:LEU:HD22	3:D:243:ALA:HB2	1.87	0.56
3:D:257:GLY:N	3:D:272:LEU:HD22	2.20	0.56
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.20	0.56
3:D:1445:HIS:O	3:D:1446:VAL:C	2.44	0.56
4:E:50:THR:O	4:E:55:PHE:CE1	2.58	0.56
5:F:381:HIS:H	5:F:385:GLU:CD	2.09	0.56
1:K:64:GLU:HG3	1:K:64:GLU:O	2.04	0.56
2:M:91:GLN:HB2	2:M:118:ILE:C	2.26	0.56
2:M:265:ARG:HD2	2:M:268:ASP:HA	1.85	0.56
2:M:582:GLY:N	2:M:584:GLU:OE2	2.29	0.56
3:N:22:SER:C	3:N:24:GLY:H	2.08	0.56
3:N:188:GLY:H	3:N:198:ARG:CA	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:685:ASP:O	3:N:687:VAL:N	2.37	0.56
3:N:1093:TYR:O	3:N:1097:LYS:HG2	2.04	0.56
5:P:308:LEU:HD23	5:P:308:LEU:H	1.69	0.56
1:A:9:PRO:HB2	1:A:25:LEU:HD11	1.87	0.56
1:A:206:THR:HG23	1:A:207:PRO:HD2	1.86	0.56
1:B:13:VAL:CG2	1:B:14:ARG:N	2.67	0.56
1:B:95:GLN:HE22	1:B:146:ARG:NH1	2.02	0.56
2:C:54:ILE:HD12	2:C:352:ALA:HB1	1.87	0.56
2:C:55:GLU:CD	2:C:57:GLU:HB3	2.26	0.56
2:C:285:LEU:HD12	2:C:289:THR:O	2.04	0.56
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.33	0.56
2:C:413:LEU:CA	2:C:419:THR:HG21	2.35	0.56
2:C:498:GLN:HA	2:C:533:ASP:OD2	2.05	0.56
2:C:715:THR:HB	2:C:718:GLY:O	2.04	0.56
2:C:1014:SER:CA	2:C:1021:LEU:HD22	2.35	0.56
3:D:225:LEU:O	3:D:330:THR:HA	2.05	0.56
3:D:249:TYR:HD2	3:D:288:MET:HE1	1.71	0.56
3:D:428:LYS:HG2	3:D:429:SER:H	1.69	0.56
3:D:556:LYS:O	3:D:560:GLN:N	2.38	0.56
3:D:800:LYS:HE3	3:D:826:PRO:HD3	1.86	0.56
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.05	0.56
3:D:1066:THR:HB	3:D:1069:GLU:HG3	1.86	0.56
3:D:1263:PHE:CE1	3:D:1352:ILE:HD13	2.40	0.56
3:D:1397:LYS:HB2	3:D:1398:TRP:HZ3	1.68	0.56
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.05	0.56
3:D:1479:ASP:HA	3:D:1482:ARG:NE	2.19	0.56
4:E:40:LEU:HD13	4:E:72:ARG:NH1	2.20	0.56
4:E:62:THR:O	4:E:66:LYS:HG2	2.05	0.56
5:F:132:ARG:HB3	5:F:136:LEU:HD11	1.87	0.56
5:F:156:VAL:HG23	5:F:157:GLU:CD	2.26	0.56
5:F:210:LEU:HA	5:F:213:ILE:CD1	2.16	0.56
1:K:176:ARG:NE	2:M:865:THR:HG22	2.20	0.56
2:M:101:ILE:HG23	2:M:107:LEU:HD23	1.88	0.56
2:M:508:ILE:HG22	2:M:509:ALA:N	2.20	0.56
2:M:551:GLU:OE1	2:M:551:GLU:N	2.39	0.56
2:M:641:PRO:O	2:M:642:ARG:HD3	2.06	0.56
2:M:745:ILE:HG22	2:M:746:GLY:N	2.20	0.56
2:M:772:ARG:NH2	5:P:379:ARG:HG3	2.20	0.56
2:M:853:LEU:HB2	2:M:858:MET:CE	2.35	0.56
2:M:959:PRO:HA	2:M:962:GLN:OE1	2.04	0.56
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:95:LEU:HB3	3:N:97:THR:O	2.04	0.56
3:N:173:PRO:HG3	3:N:209:ARG:HH12	1.71	0.56
3:N:206:ARG:HG3	3:N:207:PHE:H	1.70	0.56
3:N:350:HIS:ND1	5:P:232:ARG:NH2	2.52	0.56
3:N:657:LEU:HG	3:N:661:MET:CE	2.34	0.56
3:N:792:ILE:HG21	3:N:941:PHE:CD1	2.41	0.56
3:N:939:PHE:O	3:N:941:PHE:N	2.38	0.56
3:N:1094:LEU:HG	3:N:1095:THR:N	2.19	0.56
3:N:1401:GLU:CD	3:N:1401:GLU:H	2.09	0.56
3:N:1403:LEU:O	3:N:1408:ILE:HG13	2.05	0.56
5:P:172:ARG:HG3	5:P:173:TYR:N	2.19	0.56
5:P:300:ASP:CG	5:P:302:LYS:HE3	2.26	0.56
5:P:361:LEU:HD12	5:P:362:SER:H	1.70	0.56
5:P:370:LYS:HG3	5:P:371:LEU:H	1.68	0.56
1:B:47:SER:O	1:B:48:ILE:HD12	2.05	0.56
1:B:73:GLU:HG3	1:B:130:ALA:HB1	1.87	0.56
2:C:51:THR:HG21	2:C:348:LEU:HG	1.87	0.56
2:C:167:LYS:NZ	2:C:167:LYS:HB3	2.20	0.56
2:C:198:ARG:HH21	2:C:231:PRO:HD3	1.70	0.56
2:C:258:TYR:O	2:C:290:LEU:HD12	2.05	0.56
2:C:594:ALA:HB1	2:C:654:LEU:CD1	2.35	0.56
2:C:614:ARG:HA	2:C:619:ARG:O	2.06	0.56
2:C:672:VAL:HG21	2:C:868:ASP:HB2	1.87	0.56
3:D:9:ARG:HG2	3:D:10:ILE:N	2.20	0.56
3:D:135:LEU:HD11	3:D:148:GLU:CG	2.36	0.56
3:D:210:ARG:H	3:D:389:GLU:HB2	1.70	0.56
3:D:256:GLU:O	3:D:274:ARG:HB2	2.04	0.56
3:D:1149:LEU:HD23	3:D:1161:GLU:O	2.05	0.56
5:F:117:SER:O	5:F:121:GLY:N	2.38	0.56
5:F:302:LYS:O	5:F:305:GLU:HB3	2.05	0.56
1:K:12:THR:HA	1:L:229:GLN:CB	2.20	0.56
1:K:13:VAL:HG22	1:K:14:ARG:N	2.21	0.56
2:M:7:GLY:HA3	2:M:907:ASP:OD2	2.05	0.56
2:M:548:PRO:HG3	2:M:842:ARG:NH2	2.20	0.56
2:M:649:VAL:HG13	2:M:650:ARG:HH21	1.69	0.56
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.87	0.56
3:N:122:GLU:O	3:N:126:VAL:CB	2.53	0.56
3:N:138:LYS:O	3:N:452:ILE:HG22	2.06	0.56
3:N:169:TYR:HB3	3:N:195:VAL:HG11	1.88	0.56
3:N:571:LYS:O	3:N:574:LEU:HB3	2.06	0.56
3:N:880:ILE:O	3:N:883:ALA:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1041:LEU:HG	3:N:1043:GLY:H	1.71	0.56
3:N:1165:TYR:CE2	3:N:1214:PRO:HB3	2.41	0.56
5:P:76:SER:C	5:P:78:SER:H	2.06	0.56
1:B:85:LEU:HD12	1:B:86:VAL:N	2.20	0.56
1:B:88:ARG:O	1:B:120:VAL:HA	2.06	0.56
2:C:41:ASN:HB3	2:C:49:ARG:CZ	2.35	0.56
2:C:93:PRO:HA	2:C:117:HIS:CA	2.35	0.56
2:C:194:VAL:HA	2:C:197:LEU:CD1	2.36	0.56
2:C:405:ARG:NH2	2:C:409:ARG:HD2	2.21	0.56
2:C:658:GLY:N	2:C:661:SER:OG	2.39	0.56
2:C:911:GLU:HB2	2:C:912:PRO:HD3	1.87	0.56
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.88	0.56
2:C:1015:LEU:N	5:F:333:ILE:O	2.31	0.56
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.68	0.56
3:D:118:LEU:HA	3:D:123:LEU:CD1	2.32	0.56
3:D:134:VAL:HG12	3:D:152:LEU:HA	1.86	0.56
3:D:417:PRO:HB2	3:D:428:LYS:CG	2.30	0.56
3:D:545:ARG:HB3	3:D:545:ARG:NH1	2.19	0.56
3:D:710:ARG:HG3	3:D:711:LEU:HD12	1.88	0.56
3:D:1365:ASP:O	3:D:1366:LYS:C	2.44	0.56
5:F:267:THR:HA	5:F:270:LYS:HB3	1.88	0.56
5:F:291:ILE:HD12	5:F:291:ILE:O	2.05	0.56
1:K:71:VAL:HG22	1:K:132:LEU:HD22	1.87	0.56
1:L:57:TYR:HB2	1:L:164:ALA:HA	1.88	0.56
1:L:99:LEU:HB3	1:L:114:PHE:CD2	2.41	0.56
2:M:769:PRO:HG2	3:N:65:ARG:HH12	1.69	0.56
3:N:135:LEU:HG	3:N:151:GLN:O	2.04	0.56
3:N:227:LEU:HD11	3:N:327:GLU:N	2.20	0.56
3:N:295:GLY:CA	3:N:302:GLN:HB3	2.33	0.56
3:N:511:TRP:CE3	3:N:511:TRP:N	2.73	0.56
3:N:598:ARG:HG2	3:N:598:ARG:HH11	1.71	0.56
3:N:1216:SER:HB2	4:O:15:SER:HA	1.86	0.56
3:N:1394:VAL:O	3:N:1398:TRP:CD1	2.58	0.56
3:N:1409:ALA:C	3:N:1411:GLY:H	2.08	0.56
5:P:157:GLU:O	5:P:158:GLU:C	2.42	0.56
5:P:305:GLU:HA	5:P:308:LEU:HD11	1.87	0.56
1:A:38:ASN:HB3	1:A:39:PRO:CD	2.32	0.56
1:B:233:VAL:HG12	1:B:235:ALA:H	1.70	0.56
2:C:492:ASP:HA	2:C:518:LYS:CB	2.35	0.56
2:C:691:SER:HA	2:C:858:MET:CE	2.36	0.56
3:D:45:PHE:HB3	3:D:86:ARG:HH22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:403:PHE:CD2	3:D:442:ASN:O	2.59	0.56
3:D:417:PRO:CB	3:D:430:ASP:HA	2.32	0.56
3:D:661:MET:C	3:D:667:ALA:HB3	2.25	0.56
5:F:321:ILE:HG22	5:F:322:GLY:H	1.70	0.56
5:F:343:ASP:N	5:F:343:ASP:OD1	2.37	0.56
2:M:203:ASP:HA	2:M:228:ALA:HB1	1.87	0.56
2:M:269:LEU:HA	2:M:288:ARG:HB2	1.88	0.56
2:M:690:ILE:CG2	2:M:852:ILE:HG23	2.30	0.56
3:N:553:ARG:O	3:N:556:LYS:HB2	2.05	0.56
3:N:785:ILE:HG12	3:N:939:PHE:CE2	2.41	0.56
3:N:907:GLU:O	3:N:908:LYS:C	2.44	0.56
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.41	0.56
3:N:1032:PRO:HB2	3:N:1033:GLN:HE22	1.71	0.56
5:P:278:LEU:CB	5:P:286:PRO:HG3	2.24	0.56
5:P:411:HIS:O	5:P:414:ARG:HB2	2.05	0.56
1:B:38:ASN:CB	1:B:39:PRO:HD3	2.32	0.56
1:B:176:ARG:HD3	3:D:884:ARG:HH22	1.70	0.56
2:C:44:ILE:O	2:C:47:ALA:HB3	2.06	0.56
2:C:198:ARG:HG3	2:C:231:PRO:HA	1.86	0.56
2:C:408:ARG:NH2	2:C:457:ALA:O	2.38	0.56
3:D:210:ARG:HB2	3:D:389:GLU:CB	2.35	0.56
3:D:280:ALA:HB1	3:D:282:TYR:CZ	2.40	0.56
3:D:403:PHE:CE1	3:D:442:ASN:HB3	2.41	0.56
3:D:596:SER:C	3:D:598:ARG:H	2.09	0.56
4:E:28:GLN:O	4:E:31:LEU:HB2	2.05	0.56
5:F:131:VAL:O	5:F:135:ILE:HG13	2.05	0.56
5:F:264:MET:HE2	5:F:264:MET:HA	1.88	0.56
5:F:368:VAL:HG23	5:F:369:LEU:HG	1.88	0.56
5:F:418:LEU:H	5:F:418:LEU:CD1	2.02	0.56
1:K:13:VAL:CG2	1:K:14:ARG:N	2.68	0.56
1:L:68:ILE:HD12	1:L:71:VAL:HG11	1.86	0.56
1:L:97:VAL:HG12	1:L:98:THR:N	2.21	0.56
2:M:400:PRO:O	2:M:401:LEU:C	2.42	0.56
2:M:710:ILE:CG2	2:M:823:VAL:HB	2.36	0.56
2:M:1030:GLN:HE22	3:N:628:ARG:HH21	1.53	0.56
3:N:23:TYR:O	3:N:49:ILE:HG23	2.06	0.56
3:N:207:PHE:HB2	3:N:391:ALA:HB3	1.87	0.56
3:N:219:GLU:C	3:N:337:LEU:HG	2.26	0.56
3:N:284:LEU:HD13	3:N:288:MET:CG	2.34	0.56
3:N:536:ALA:O	3:N:537:THR:HG23	2.06	0.56
3:N:602:SER:O	3:N:606:ILE:HG13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.88	0.56
1:A:5:LYS:NZ	1:A:28:LEU:C	2.59	0.56
1:A:209:GLU:HA	1:A:212:ASN:HD22	1.71	0.56
1:B:19:GLU:HG2	1:B:203:GLY:CA	2.35	0.56
2:C:164:PRO:HB3	2:C:264:PRO:O	2.05	0.56
2:C:198:ARG:HE	2:C:231:PRO:CD	2.19	0.56
2:C:649:VAL:HA	2:C:650:ARG:NH2	2.17	0.56
2:C:807:ARG:HB2	2:C:807:ARG:CZ	2.35	0.56
3:D:540:LEU:HD21	3:D:606:ILE:CD1	2.36	0.56
3:D:794:GLN:NE2	3:D:905:PRO:HG2	2.19	0.56
3:D:1161:GLU:HG3	3:D:1164:ARG:CB	2.29	0.56
5:F:159:ILE:O	5:F:163:LEU:HG	2.06	0.56
5:F:402:ASN:HD22	5:F:402:ASN:N	2.04	0.56
5:F:402:ASN:ND2	5:F:402:ASN:H	2.03	0.56
1:L:86:VAL:CG1	1:L:123:MET:HB2	2.36	0.56
1:L:112:ARG:HB3	1:L:112:ARG:HH11	1.70	0.56
2:M:31:GLN:HG2	2:M:35:PRO:CB	2.31	0.56
2:M:72:ARG:O	2:M:95:TYR:N	2.38	0.56
2:M:204:GLN:HB2	2:M:209:ARG:CZ	2.36	0.56
3:N:69:GLU:HG3	3:N:71:LYS:HZ3	1.70	0.56
3:N:592:THR:CG2	3:N:600:LEU:HD21	2.31	0.56
3:N:965:GLU:O	3:N:966:GLU:C	2.44	0.56
3:N:1094:LEU:HD12	3:N:1098:LEU:HD11	1.87	0.56
3:N:1365:ASP:O	3:N:1366:LYS:C	2.44	0.56
5:P:84:TYR:O	5:P:86:HIS:N	2.39	0.56
5:P:231:ARG:HB2	5:P:233:PHE:CZ	2.41	0.56
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.87	0.56
2:C:230:ARG:HG3	2:C:230:ARG:HH11	1.71	0.56
2:C:380:ALA:O	2:C:381:ALA:C	2.42	0.56
2:C:439:CYS:SG	2:C:441:VAL:HG13	2.46	0.56
2:C:460:ARG:HH21	2:C:462:ASP:HB3	1.70	0.56
3:D:71:LYS:H	3:D:80:VAL:CG2	2.19	0.56
3:D:520:LEU:O	3:D:525:ARG:NH1	2.39	0.56
3:D:685:ASP:O	3:D:687:VAL:N	2.39	0.56
3:D:959:GLU:H	3:D:959:GLU:CD	2.09	0.56
3:D:1156:LEU:HD12	3:D:1173:LEU:CD1	2.35	0.56
3:D:1310:ARG:HB3	3:D:1327:ARG:HG3	1.88	0.56
3:D:1344:VAL:CG1	3:D:1345:GLU:N	2.69	0.56
3:D:1440:PHE:HE2	3:D:1463:LYS:NZ	2.03	0.56
5:F:223:ALA:HB2	5:F:242:TRP:CG	2.41	0.56
5:F:244:ARG:O	5:F:247:ILE:HB	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:271:LEU:O	5:F:272:SER:C	2.44	0.56
1:K:111:ALA:HB3	1:K:124:ASN:O	2.05	0.56
2:M:358:ARG:HD2	2:M:372:LEU:HA	1.86	0.56
2:M:486:MET:SD	2:M:491:GLU:HA	2.46	0.56
2:M:545:ASN:CB	2:M:583:LEU:HD11	2.35	0.56
2:M:600:ASP:HB3	2:M:650:ARG:CA	2.29	0.56
3:N:152:LEU:HG	3:N:153:LEU:N	2.19	0.56
3:N:188:GLY:N	3:N:197:SER:O	2.39	0.56
3:N:470:LEU:N	3:N:470:LEU:HD23	2.20	0.56
3:N:1216:SER:OG	4:O:16:LYS:HB2	2.05	0.56
1:A:44:LEU:O	1:A:48:ILE:HG12	2.06	0.56
1:B:76:VAL:HA	1:B:79:ILE:CG1	2.36	0.56
1:B:188:GLN:HG2	1:B:189:ARG:HG3	1.88	0.56
2:C:691:SER:HA	2:C:858:MET:HE3	1.88	0.56
2:C:876:VAL:O	2:C:880:MET:N	2.39	0.56
2:C:950:LEU:HB2	2:C:952:LEU:HG	1.87	0.56
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.21	0.56
2:C:1031:ARG:HB2	3:D:622:ARG:HH12	1.71	0.56
3:D:442:ASN:N	3:D:442:ASN:ND2	2.54	0.56
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.05	0.56
3:D:758:GLU:HG2	3:D:1476:THR:HG21	1.88	0.56
3:D:821:VAL:HG22	3:D:840:LYS:NZ	2.21	0.56
3:D:937:TYR:HA	3:D:940:THR:OG1	2.06	0.56
4:E:45:ARG:O	4:E:47:LYS:HG2	2.06	0.56
5:F:142:ARG:CD	5:F:145:PRO:HA	2.35	0.56
1:K:208:LEU:O	1:K:211:LEU:HB3	2.05	0.56
1:L:179:PHE:CB	1:L:197:LEU:HD13	2.34	0.56
2:M:115:LEU:HB3	2:M:375:SER:HB3	1.88	0.56
2:M:328:LEU:HD11	2:M:434:HIS:HA	1.87	0.56
2:M:1083:GLU:O	2:M:1087:VAL:HG23	2.05	0.56
3:N:225:LEU:HD11	3:N:242:LEU:HD21	1.88	0.56
3:N:420:VAL:C	3:N:421:LEU:HD23	2.26	0.56
3:N:566:ILE:O	3:N:569:ASN:HB3	2.05	0.56
3:N:574:LEU:HG	3:N:575:GLN:N	2.20	0.56
3:N:925:GLU:HG2	4:O:7:ASP:OD2	2.05	0.56
3:N:1048:PRO:HA	3:N:1079:LYS:NZ	2.20	0.56
1:A:85:LEU:HD12	1:A:124:ASN:OD1	2.05	0.55
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.20	0.55
2:C:522:VAL:HG12	2:C:523:ILE:N	2.20	0.55
2:C:1005:MET:HG2	3:D:629:SER:CB	2.35	0.55
3:D:5:VAL:HG22	3:D:6:ARG:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:72:VAL:HG12	3:D:73:CYS:N	2.21	0.55
3:D:102:ILE:O	3:D:104:PHE:N	2.39	0.55
3:D:102:ILE:C	3:D:104:PHE:H	2.10	0.55
3:D:119:SER:CB	3:D:123:LEU:H	2.02	0.55
3:D:248:PRO:CB	3:D:308:LYS:NZ	2.69	0.55
3:D:398:ALA:HB2	3:D:447:VAL:HG22	1.88	0.55
3:D:406:ASP:CB	3:D:424:GLY:H	2.18	0.55
3:D:864:VAL:CG1	3:D:865:THR:N	2.69	0.55
3:D:957:PRO:HG3	3:D:1010:ASN:ND2	2.04	0.55
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.21	0.55
3:D:1465:ASN:HD22	3:D:1473:PRO:HD3	1.69	0.55
4:E:6:ILE:CG2	4:E:7:ASP:N	2.69	0.55
5:F:386:VAL:CG2	5:F:387:GLY:N	2.69	0.55
2:M:191:PHE:CD2	2:M:195:LEU:HD12	2.42	0.55
2:M:879:ARG:N	2:M:879:ARG:HD2	2.21	0.55
2:M:974:LEU:HD11	2:M:989:VAL:HG11	1.87	0.55
3:N:246:PRO:HD2	3:N:308:LYS:HA	1.88	0.55
3:N:1194:CYS:HB2	3:N:1204:CYS:CB	2.36	0.55
5:P:365:GLU:HA	5:P:368:VAL:HG13	1.88	0.55
1:A:1:MET:HA	1:A:6:LEU:HD22	1.88	0.55
1:A:30:ARG:HG3	2:C:938:LYS:NZ	2.22	0.55
2:C:56:GLU:OE1	2:C:359:MET:HB2	2.05	0.55
2:C:355:VAL:HA	2:C:358:ARG:HG3	1.89	0.55
2:C:415:PRO:HG2	2:C:418:LEU:HD12	1.88	0.55
2:C:768:THR:HB	2:C:771:GLU:HB3	1.88	0.55
2:C:939:ARG:O	2:C:942:GLU:HB3	2.05	0.55
3:D:136:ASP:HB2	3:D:453:ASP:O	2.05	0.55
3:D:884:ARG:HG2	3:D:885:ILE:N	2.21	0.55
3:D:1094:LEU:HG	3:D:1095:THR:N	2.21	0.55
3:D:1293:PHE:CE2	3:D:1300:SER:HB3	2.41	0.55
5:F:162:LYS:O	5:F:166:LEU:HG	2.07	0.55
5:F:221:ILE:O	5:F:224:VAL:HB	2.06	0.55
5:F:401:GLU:O	5:F:404:ALA:HB3	2.06	0.55
2:M:89:THR:HG23	2:M:128:ILE:O	2.06	0.55
2:M:98:LEU:H	2:M:111:ASP:HA	1.71	0.55
2:M:224:GLU:HB3	2:M:227:PHE:CB	2.36	0.55
2:M:277:ALA:O	2:M:281:LEU:N	2.39	0.55
2:M:498:GLN:HB2	2:M:514:VAL:CG2	2.36	0.55
2:M:573:ARG:O	2:M:670:GLN:NE2	2.39	0.55
3:N:5:VAL:HG12	3:N:6:ARG:N	2.22	0.55
3:N:350:HIS:HB3	5:P:232:ARG:CZ	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:413:ASP:O	3:N:434:ARG:HA	2.06	0.55
3:N:857:ILE:O	3:N:858:VAL:HG23	2.05	0.55
3:N:1253:THR:HG22	3:N:1254:GLN:N	2.18	0.55
5:P:86:HIS:C	5:P:88:ILE:N	2.60	0.55
5:P:262:VAL:HA	5:P:265:VAL:HG23	1.88	0.55
5:P:399:GLN:O	5:P:402:ASN:HB2	2.06	0.55
1:B:58:ILE:CD1	1:B:60:ASP:H	2.19	0.55
2:C:948:GLU:HB3	2:C:953:VAL:HG23	1.88	0.55
2:C:1015:LEU:HA	5:F:335:ASP:HB2	1.88	0.55
2:C:1015:LEU:HB2	5:F:333:ILE:HG22	1.88	0.55
3:D:10:ILE:O	3:D:10:ILE:HG23	2.06	0.55
3:D:41:ARG:HH21	3:D:48:ARG:NH1	2.03	0.55
3:D:245:LEU:HG	3:D:309:GLY:HA2	1.88	0.55
3:D:810:GLU:O	3:D:812:ALA:N	2.40	0.55
3:D:828:LYS:HD3	3:D:828:LYS:N	2.21	0.55
3:D:984:THR:HG23	3:D:987:GLU:H	1.72	0.55
3:D:1246:VAL:CG1	3:D:1249:ALA:O	2.54	0.55
3:D:1481:VAL:HG22	4:E:18:ARG:CZ	2.36	0.55
3:D:1504:GLU:O	3:D:1505:ALA:HB3	2.05	0.55
5:F:94:LEU:HD11	5:F:190:ALA:CB	2.36	0.55
1:K:42:ARG:HD3	1:L:35:THR:HA	1.89	0.55
1:L:210:ALA:O	1:L:211:LEU:C	2.45	0.55
2:M:560:MET:HB3	2:M:564:MET:CE	2.37	0.55
3:N:167:GLU:OE1	3:N:169:TYR:CE2	2.60	0.55
3:N:591:VAL:HG12	3:N:599:PRO:CA	2.36	0.55
3:N:875:THR:HG21	3:N:902:LEU:HD11	1.87	0.55
3:N:1302:GLU:HG2	3:N:1303:TYR:N	2.20	0.55
3:N:1311:LEU:CD1	3:N:1312:LEU:H	2.17	0.55
3:N:1363:LEU:C	3:N:1363:LEU:HD23	2.27	0.55
3:N:1377:LYS:HD3	3:N:1378:TYR:CE1	2.41	0.55
5:P:305:GLU:OE2	5:P:309:LYS:NZ	2.37	0.55
5:P:321:ILE:O	5:P:323:ASP:N	2.40	0.55
1:A:83:LYS:HZ1	1:A:170:VAL:HG22	1.71	0.55
2:C:373:VAL:CG1	2:C:374:ASN:N	2.69	0.55
3:D:16:GLU:CD	3:D:16:GLU:N	2.57	0.55
3:D:41:ARG:HH11	3:D:41:ARG:HG3	1.70	0.55
3:D:166:GLN:HB3	3:D:394:LEU:HD11	1.89	0.55
3:D:274:ARG:HE	3:D:279:VAL:HG11	1.71	0.55
3:D:296:GLU:N	3:D:302:GLN:OE1	2.39	0.55
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.89	0.55
3:D:1353:GLN:O	3:D:1355:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:175:HIS:HA	5:F:178:ARG:HB2	1.87	0.55
5:F:373:LYS:HB3	5:F:379:ARG:H	1.70	0.55
1:L:79:ILE:HA	1:L:82:LEU:HG	1.88	0.55
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.88	0.55
3:N:41:ARG:HH21	3:N:48:ARG:NH1	2.04	0.55
3:N:191:LEU:HD23	3:N:195:VAL:HG11	1.88	0.55
3:N:522:PRO:HG3	3:N:525:ARG:HH22	1.70	0.55
3:N:544:TYR:O	3:N:545:ARG:C	2.42	0.55
3:N:1337:GLU:CD	3:N:1337:GLU:H	2.09	0.55
5:P:147:LEU:O	5:P:148:LYS:HB2	2.05	0.55
1:B:63:HIS:HD2	1:B:65:PHE:HB2	1.71	0.55
1:B:68:ILE:HD12	1:B:71:VAL:CG1	2.37	0.55
1:B:176:ARG:HG2	1:B:177:VAL:H	1.71	0.55
2:C:23:VAL:HG23	2:C:24:GLU:N	2.21	0.55
2:C:266:ARG:CD	2:C:273:GLY:HA3	2.37	0.55
2:C:493:ARG:HB2	2:C:494:TYR:CE1	2.42	0.55
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.06	0.55
2:C:1114:GLY:C	2:C:1116:ALA:H	2.09	0.55
3:D:28:LYS:HG2	3:D:42:ASP:CB	2.36	0.55
3:D:128:TYR:CD1	3:D:457:GLY:HA2	2.27	0.55
3:D:409:VAL:HB	5:F:164:LYS:NZ	2.22	0.55
3:D:529:GLN:HA	3:D:535:PHE:CD2	2.40	0.55
3:D:654:LYS:O	3:D:658:LEU:HG	2.07	0.55
3:D:1028:ALA:O	3:D:1029:ARG:HB2	2.06	0.55
3:D:1376:MET:HE1	3:D:1421:LEU:CD1	2.37	0.55
1:K:55:SER:HA	1:K:167:VAL:HG23	1.88	0.55
1:K:74:ASP:OD1	1:K:76:VAL:N	2.39	0.55
1:L:74:ASP:OD2	1:L:75:VAL:N	2.40	0.55
2:M:641:PRO:HA	2:M:655:LEU:O	2.06	0.55
2:M:1059:ASP:HA	2:M:1083:GLU:OE2	2.07	0.55
2:M:1111:ILE:HD11	2:M:1112:PHE:CE1	2.41	0.55
3:N:36:THR:CG2	3:N:38:LYS:HE2	2.37	0.55
3:N:622:ARG:HG2	3:N:622:ARG:HH11	1.72	0.55
3:N:835:SER:HB3	3:N:838:ARG:HG3	1.89	0.55
3:N:891:GLU:HB2	3:N:926:LYS:NZ	2.21	0.55
3:N:1126:ASP:OD2	3:N:1129:THR:HG23	2.06	0.55
3:N:1304:LYS:O	3:N:1305:LEU:HB3	2.05	0.55
5:P:209:PHE:HA	5:P:212:LEU:CD1	2.36	0.55
5:P:406:ARG:O	5:P:409:LYS:HG3	2.06	0.55
1:A:34:VAL:CB	1:B:42:ARG:HH12	1.96	0.55
1:A:206:THR:HG22	1:A:208:LEU:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:ARG:O	1:B:114:PHE:N	2.40	0.55
2:C:32:ALA:C	2:C:35:PRO:HD2	2.27	0.55
2:C:95:TYR:CG	2:C:114:PHE:HB3	2.41	0.55
2:C:806:LEU:HD22	2:C:813:VAL:CG2	2.36	0.55
3:D:14:SER:O	3:D:18:ILE:HG13	2.05	0.55
3:D:119:SER:OG	3:D:122:GLU:HB2	2.07	0.55
3:D:178:LEU:HG	3:D:181:ASP:CB	2.35	0.55
3:D:288:MET:O	3:D:290:PRO:HD3	2.05	0.55
3:D:365:ASP:O	3:D:379:ALA:CB	2.54	0.55
3:D:494:LYS:HA	3:D:1388:ARG:HH12	1.72	0.55
3:D:508:ARG:CB	3:D:510:GLU:OE1	2.54	0.55
3:D:673:ALA:O	3:D:677:LEU:HG	2.07	0.55
3:D:826:PRO:HD2	3:D:829:VAL:HG11	1.89	0.55
3:D:914:LEU:O	3:D:914:LEU:HD12	2.07	0.55
3:D:986:ARG:HG3	3:D:990:ASP:OD2	2.05	0.55
3:D:1103:HIS:CD2	3:D:1462:LEU:H	2.24	0.55
3:D:1398:TRP:HB3	3:D:1402:ALA:HB3	1.89	0.55
3:D:1409:ALA:C	3:D:1410:GLU:HG3	2.26	0.55
4:E:5:GLY:O	4:E:9:LEU:HG	2.05	0.55
5:F:75:ILE:HG22	5:F:76:SER:N	2.21	0.55
5:F:80:PRO:HA	5:F:83:GLN:NE2	2.16	0.55
5:F:127:ILE:O	5:F:130:VAL:N	2.39	0.55
5:F:245:GLN:CA	5:F:245:GLN:NE2	2.70	0.55
5:F:288:TYR:O	5:F:291:ILE:HG23	2.06	0.55
5:F:314:PRO:HG2	5:F:315:VAL:N	2.21	0.55
1:K:203:GLY:C	1:K:205:VAL:N	2.59	0.55
1:L:28:LEU:HD13	1:L:33:GLY:N	2.22	0.55
1:L:32:PHE:O	1:L:36:LEU:HD12	2.06	0.55
2:M:200:LEU:HD13	2:M:300:ASP:HB3	1.88	0.55
2:M:389:SER:HB3	2:M:392:SER:HB3	1.89	0.55
2:M:790:LEU:C	2:M:790:LEU:HD12	2.27	0.55
2:M:892:LEU:O	2:M:895:TYR:HB3	2.07	0.55
2:M:1056:LYS:HZ3	3:N:749:VAL:H	1.54	0.55
3:N:323:GLU:HB2	3:N:334:THR:CB	2.36	0.55
3:N:430:ASP:N	3:N:430:ASP:OD1	2.38	0.55
3:N:525:ARG:HG2	3:N:525:ARG:NH1	2.20	0.55
3:N:1394:VAL:HG21	3:N:1397:LYS:NZ	2.22	0.55
3:N:1492:LEU:O	3:N:1495:ILE:HG22	2.07	0.55
2:C:139:GLN:HG2	2:C:391:LEU:HD21	1.87	0.55
2:C:176:VAL:HG12	2:C:183:SER:N	2.21	0.55
2:C:396:ASP:O	2:C:403:SER:CA	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:410:ILE:N	2:C:410:ILE:HD12	2.22	0.55
2:C:600:ASP:HA	2:C:649:VAL:O	2.06	0.55
2:C:879:ARG:HD2	2:C:879:ARG:N	2.22	0.55
2:C:989:VAL:HG23	2:C:990:GLY:N	2.21	0.55
3:D:108:VAL:HG12	3:D:109:PRO:HA	1.86	0.55
3:D:573:MET:O	3:D:576:GLU:HB3	2.06	0.55
3:D:655:PRO:O	3:D:656:PHE:C	2.45	0.55
3:D:864:VAL:CG1	3:D:865:THR:H	2.20	0.55
3:D:954:ALA:CB	3:D:1062:ARG:HD2	2.33	0.55
3:D:1220:ALA:O	3:D:1224:VAL:HG23	2.07	0.55
3:D:1481:VAL:O	3:D:1482:ARG:C	2.45	0.55
4:E:80:VAL:HB	4:E:81:PRO:HD2	1.89	0.55
5:F:117:SER:HB2	5:F:122:LEU:O	2.06	0.55
5:F:401:GLU:O	5:F:405:LEU:HG	2.07	0.55
1:K:86:VAL:HG12	1:K:124:ASN:OD1	2.06	0.55
1:K:198:ARG:NH2	2:M:932:GLU:OE2	2.40	0.55
1:L:10:VAL:HG22	1:L:26:GLU:O	2.07	0.55
1:L:28:LEU:HD11	1:L:36:LEU:CD1	2.37	0.55
2:M:87:ASP:O	2:M:130:ASN:HA	2.07	0.55
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.89	0.55
2:M:1030:GLN:OE1	3:N:628:ARG:HB2	2.06	0.55
3:N:264:LEU:HD22	3:N:316:GLN:NE2	2.21	0.55
3:N:317:VAL:HB	3:N:339:TRP:HB3	1.89	0.55
3:N:607:LEU:HG	3:N:608:SER:N	2.21	0.55
3:N:760:ARG:NH1	4:O:61:GLU:HB2	2.22	0.55
3:N:970:LYS:HG3	3:N:974:ILE:HD11	1.89	0.55
3:N:1012:GLU:HB2	3:N:1021:TYR:OH	2.07	0.55
3:N:1211:MET:HB2	3:N:1213:ARG:NH1	2.21	0.55
3:N:1404:ASN:CA	3:N:1408:ILE:HB	2.35	0.55
2:C:437:ARG:O	2:C:455:LEU:HD12	2.07	0.55
2:C:560:MET:HB3	2:C:564:MET:HE3	1.87	0.55
2:C:815:LEU:CD1	2:C:821:GLU:HA	2.37	0.55
3:D:209:ARG:N	3:D:389:GLU:O	2.40	0.55
3:D:1294:VAL:O	3:D:1295:GLU:HG3	2.07	0.55
3:D:1377:LYS:HD3	3:D:1378:TYR:CE1	2.42	0.55
3:D:1448:THR:O	3:D:1452:ILE:HG12	2.07	0.55
4:E:6:ILE:CG2	4:E:7:ASP:H	2.19	0.55
5:F:138:SER:O	5:F:141:VAL:HG22	2.07	0.55
1:L:66:SER:O	1:L:75:VAL:HG23	2.07	0.55
1:L:108:GLU:HG3	1:L:131:THR:CG2	2.33	0.55
2:M:151:ASP:H	2:M:158:TYR:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:235:LEU:HD22	2:M:236:ILE:HG13	1.89	0.55
2:M:841:ASN:ND2	2:M:884:GLN:OE1	2.40	0.55
2:M:1006:HIS:HA	2:M:1027:PHE:CZ	2.41	0.55
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.89	0.55
3:N:139:GLY:O	3:N:147:VAL:HB	2.06	0.55
3:N:218:LYS:HA	3:N:337:LEU:O	2.07	0.55
3:N:261:LEU:HD23	3:N:270:LEU:HA	1.88	0.55
3:N:610:LYS:NZ	3:N:1442:ASN:N	2.52	0.55
3:N:637:LEU:HD12	3:N:729:HIS:N	2.21	0.55
3:N:921:ARG:HH11	3:N:921:ARG:CB	2.19	0.55
3:N:1030:GLY:HA2	3:N:1034:GLN:NE2	2.22	0.55
3:N:1221:VAL:CG1	3:N:1370:ILE:HD13	2.37	0.55
5:P:128:ARG:HA	5:P:131:VAL:CG2	2.36	0.55
5:P:245:GLN:HE21	5:P:245:GLN:CA	2.20	0.55
5:P:382:THR:HG23	5:P:397:ILE:CG2	2.37	0.55
1:A:86:VAL:HG22	1:A:123:MET:HG3	1.89	0.55
2:C:293:PHE:HD1	2:C:294:GLU:N	2.04	0.55
2:C:599:GLU:OE1	2:C:599:GLU:HA	2.07	0.55
2:C:695:LEU:HD21	2:C:833:LEU:HB3	1.89	0.55
2:C:728:HIS:ND1	2:C:729:LEU:N	2.55	0.55
3:D:99:ALA:N	3:D:514:LEU:O	2.39	0.55
3:D:133:ILE:HG22	3:D:455:ARG:C	2.27	0.55
3:D:178:LEU:HG	3:D:181:ASP:OD2	2.07	0.55
3:D:413:ASP:O	3:D:434:ARG:HA	2.07	0.55
3:D:812:ALA:C	3:D:814:ALA:N	2.59	0.55
3:D:869:MET:HE1	3:D:893:GLU:HG2	1.89	0.55
3:D:909:ASN:O	3:D:910:SER:C	2.45	0.55
3:D:930:LEU:O	3:D:933:ALA:HB3	2.07	0.55
3:D:1078:ARG:HH11	3:D:1078:ARG:HG3	1.72	0.55
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.07	0.55
3:D:1354:LYS:O	3:D:1358:ALA:HB2	2.07	0.55
4:E:85:LEU:O	4:E:86:GLN:C	2.45	0.55
5:F:368:VAL:CG2	5:F:369:LEU:H	2.14	0.55
5:F:405:LEU:O	5:F:408:LEU:HB3	2.07	0.55
2:M:237:ARG:O	2:M:240:THR:CB	2.55	0.55
2:M:549:PHE:CD2	2:M:886:LEU:HB2	2.42	0.55
2:M:589:ARG:HG2	2:M:596:TYR:CZ	2.41	0.55
2:M:719:PRO:HB3	2:M:820:ARG:NH1	2.21	0.55
2:M:780:GLU:HG2	5:P:379:ARG:HH21	1.69	0.55
3:N:27:GLU:HB2	3:N:28:LYS:CE	2.37	0.55
3:N:41:ARG:NH2	3:N:48:ARG:NH1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:280:ALA:HB1	3:N:282:TYR:CZ	2.42	0.55
3:N:356:PRO:CB	3:N:440:VAL:HB	2.34	0.55
3:N:416:ALA:CB	3:N:432:TYR:CG	2.90	0.55
3:N:715:ALA:O	3:N:764:LEU:HD12	2.07	0.55
3:N:759:ALA:O	3:N:763:MET:HB2	2.06	0.55
5:P:413:SER:CB	5:P:414:ARG:HH21	2.20	0.55
1:A:70:GLY:H	2:C:607:ASP:CB	2.20	0.55
1:B:112:ARG:NH2	1:B:125:PRO:C	2.60	0.55
2:C:167:LYS:HB3	2:C:167:LYS:HZ3	1.72	0.55
2:C:267:TYR:HE1	2:C:464:LEU:HD12	1.71	0.55
2:C:439:CYS:HB2	2:C:541:SER:CB	2.35	0.55
3:D:660:LYS:HD2	3:D:693:GLU:OE2	2.06	0.55
3:D:1095:THR:C	3:D:1099:VAL:HG23	2.27	0.55
3:D:1179:GLU:C	3:D:1181:GLY:H	2.10	0.55
3:D:1380:GLU:O	3:D:1418:LYS:N	2.30	0.55
4:E:6:ILE:CA	4:E:9:LEU:HD12	2.24	0.55
5:F:260:ILE:HG13	5:F:261:PRO:HD2	1.88	0.55
1:K:5:LYS:HZ2	1:K:29:GLU:N	2.05	0.55
2:M:23:VAL:HA	2:M:121:MET:CE	2.33	0.55
2:M:226:VAL:O	2:M:230:ARG:CZ	2.55	0.55
2:M:486:MET:HG3	2:M:490:GLU:OE1	2.07	0.55
3:N:139:GLY:HA2	3:N:452:ILE:CG2	2.37	0.55
3:N:186:VAL:HG12	3:N:187:LYS:N	2.22	0.55
3:N:207:PHE:CZ	5:P:97:GLU:HB2	2.42	0.55
3:N:238:PRO:HB3	3:N:317:VAL:C	2.28	0.55
3:N:368:VAL:H	3:N:377:VAL:HB	1.71	0.55
3:N:574:LEU:O	3:N:577:ALA:HB3	2.07	0.55
3:N:628:ARG:N	3:N:648:MET:HE1	2.21	0.55
3:N:795:VAL:HG13	3:N:879:ARG:HH12	1.71	0.55
3:N:808:THR:N	3:N:809:PRO:CD	2.63	0.55
3:N:812:ALA:HB2	3:N:816:HIS:HB2	1.89	0.55
3:N:921:ARG:O	3:N:922:LEU:HD23	2.07	0.55
3:N:988:ARG:HG2	3:N:992:ILE:HD11	1.87	0.55
3:N:1379:VAL:O	3:N:1393:GLN:N	2.40	0.55
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.07	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.06	0.55
5:P:350:LEU:O	5:P:352:GLU:N	2.39	0.55
5:P:400:ILE:O	5:P:401:GLU:C	2.45	0.55
1:B:66:SER:O	1:B:75:VAL:HG23	2.07	0.54
2:C:41:ASN:HB2	2:C:45:GLN:C	2.28	0.54
2:C:266:ARG:HB2	2:C:272:ALA:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:399:ASN:HB2	2:C:400:PRO:HD3	1.89	0.54
2:C:512:ARG:HG3	2:C:523:ILE:HD11	1.88	0.54
3:D:489:ARG:HH21	3:D:1389:LEU:CD1	2.20	0.54
3:D:622:ARG:NH1	3:D:622:ARG:HG2	2.22	0.54
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.88	0.54
3:D:1083:ASP:HB2	3:D:1239:ARG:HH12	1.71	0.54
3:D:1087:ARG:HD2	3:D:1234:THR:HA	1.89	0.54
3:D:1108:ARG:NE	3:D:1199:GLY:HA3	2.21	0.54
3:D:1499:ARG:HG3	3:D:1499:ARG:NH1	2.22	0.54
5:F:224:VAL:O	5:F:225:GLU:C	2.46	0.54
1:K:34:VAL:HG11	1:L:42:ARG:HH12	1.71	0.54
1:L:19:GLU:O	1:L:200:TRP:HA	2.07	0.54
1:L:215:VAL:CG2	1:L:216:GLU:N	2.70	0.54
2:M:807:ARG:HB3	2:M:807:ARG:HH11	1.72	0.54
3:N:39:PRO:HG2	3:N:53:ILE:HD11	1.89	0.54
3:N:259:VAL:O	3:N:260:GLU:HG3	2.07	0.54
3:N:582:LEU:O	3:N:603:LEU:HB2	2.07	0.54
3:N:812:ALA:C	3:N:814:ALA:N	2.56	0.54
3:N:966:GLU:HA	3:N:969:ARG:CZ	2.37	0.54
3:N:1197:ARG:HG2	3:N:1198:TYR:CD2	2.41	0.54
3:N:1267:ARG:HB2	3:N:1267:ARG:CZ	2.36	0.54
5:P:367:MET:SD	5:P:371:LEU:HD11	2.46	0.54
1:A:20:TYR:CD1	1:A:21:GLY:N	2.75	0.54
2:C:517:ARG:CB	2:C:520:GLU:HB2	2.35	0.54
2:C:572:ILE:HG13	2:C:573:ARG:N	2.21	0.54
2:C:1031:ARG:N	3:D:622:ARG:HH12	2.05	0.54
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.08	0.54
3:D:539:ASP:O	3:D:542:ASP:HB2	2.07	0.54
3:D:800:LYS:HE2	3:D:800:LYS:N	2.22	0.54
3:D:851:LEU:HD23	3:D:851:LEU:H	1.70	0.54
1:L:28:LEU:CD2	1:L:29:GLU:H	2.20	0.54
1:L:153:ALA:HB2	1:L:167:VAL:C	2.27	0.54
2:M:224:GLU:HB3	2:M:227:PHE:CD1	2.42	0.54
2:M:1058:ASP:HB3	2:M:1082:PRO:HB3	1.89	0.54
3:N:432:TYR:CD2	3:N:450:TYR:HB2	2.42	0.54
3:N:500:ARG:O	3:N:504:ASP:N	2.33	0.54
3:N:527:MET:HA	3:N:537:THR:CG2	2.37	0.54
3:N:659:LYS:HG3	3:N:663:GLU:OE2	2.08	0.54
3:N:736:PHE:O	3:N:738:ALA:N	2.39	0.54
3:N:807:ALA:HA	3:N:833:GLU:CB	2.36	0.54
3:N:1101:VAL:HG21	3:N:1424:VAL:HB	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1137:ARG:O	3:N:1141:GLU:HG3	2.07	0.54
3:N:1310:ARG:HB3	3:N:1327:ARG:HB2	1.88	0.54
5:P:155:THR:HA	5:P:158:GLU:OE2	2.07	0.54
5:P:265:VAL:O	5:P:266:GLU:C	2.46	0.54
5:P:306:GLU:O	5:P:307:THR:C	2.45	0.54
5:P:386:VAL:CG2	5:P:387:GLY:N	2.71	0.54
1:B:224:TYR:N	1:B:224:TYR:HD2	2.06	0.54
2:C:174:LEU:CD2	2:C:184:MET:HG2	2.37	0.54
2:C:263:ASP:OD2	2:C:263:ASP:N	2.40	0.54
2:C:640:ARG:HB2	2:C:642:ARG:NH2	2.23	0.54
2:C:695:LEU:HD22	2:C:832:LYS:HE2	1.89	0.54
2:C:808:ARG:H	2:C:815:LEU:HD11	1.72	0.54
3:D:185:VAL:HG23	3:D:203:ALA:H	1.73	0.54
3:D:209:ARG:HA	3:D:347:VAL:HB	1.88	0.54
3:D:238:PRO:HB3	3:D:318:ARG:HA	1.87	0.54
3:D:253:ALA:N	3:D:301:GLY:CA	2.62	0.54
3:D:710:ARG:N	3:D:1227:GLN:OE1	2.31	0.54
3:D:827:ILE:CG2	3:D:837:GLY:HA3	2.36	0.54
3:D:1087:ARG:HD2	3:D:1234:THR:C	2.27	0.54
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.75	0.54
3:D:1486:VAL:HG22	4:E:75:PHE:HA	1.89	0.54
3:D:1489:GLN:HA	3:D:1492:LEU:CD1	2.37	0.54
1:K:103:ALA:O	1:K:104:GLU:HG3	2.07	0.54
1:L:188:GLN:HG3	1:L:189:ARG:H	1.72	0.54
2:M:281:LEU:HB3	2:M:305:PRO:CB	2.37	0.54
2:M:650:ARG:HE	2:M:650:ARG:H	0.72	0.54
2:M:1048:THR:O	2:M:1052:MET:HB2	2.06	0.54
2:M:1061:GLU:HA	2:M:1064:ASN:ND2	2.22	0.54
3:N:90:MET:HE2	3:N:519:VAL:C	2.27	0.54
3:N:241:ILE:HG13	3:N:312:ARG:CZ	2.37	0.54
3:N:288:MET:HE1	3:N:307:ALA:CB	2.35	0.54
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.06	0.54
5:P:253:ASP:CA	5:P:259:ARG:NH1	2.67	0.54
1:A:75:VAL:O	1:A:78:ILE:HB	2.07	0.54
1:A:79:ILE:O	1:A:80:LEU:C	2.45	0.54
1:A:123:MET:HA	1:A:123:MET:CE	2.37	0.54
1:B:76:VAL:CA	1:B:79:ILE:HD12	2.29	0.54
1:B:112:ARG:HB3	1:B:112:ARG:CZ	2.38	0.54
1:B:224:TYR:N	1:B:224:TYR:CD2	2.74	0.54
2:C:148:PHE:CZ	2:C:309:TYR:HD2	2.25	0.54
2:C:277:ALA:HB1	2:C:281:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:305:PRO:O	2:C:308:ARG:HG2	2.07	0.54
2:C:512:ARG:CG	2:C:523:ILE:HD11	2.37	0.54
2:C:556:ASN:O	2:C:559:LEU:HB3	2.07	0.54
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.08	0.54
2:C:768:THR:HG22	2:C:770:GLU:N	2.23	0.54
2:C:976:ASP:OD1	2:C:978:ARG:HG3	2.07	0.54
2:C:1030:GLN:CG	3:D:626:SER:HB2	2.36	0.54
2:C:1071:ILE:C	2:C:1073:GLY:H	2.11	0.54
3:D:128:TYR:HE2	3:D:575:GLN:NE2	2.04	0.54
3:D:803:GLY:C	3:D:805:GLU:N	2.61	0.54
3:D:1107:VAL:HG11	3:D:1217:ILE:HA	1.89	0.54
3:D:1374:GLN:O	3:D:1377:LYS:HB3	2.05	0.54
5:F:290:GLU:HA	5:F:293:GLU:OE1	2.07	0.54
2:M:166:PRO:HB2	2:M:169:GLY:CA	2.37	0.54
2:M:332:ARG:HG2	2:M:333:ILE:N	2.23	0.54
2:M:630:ARG:HH11	2:M:630:ARG:HG2	1.72	0.54
2:M:799:ILE:HD12	2:M:800:VAL:O	2.07	0.54
2:M:1100:GLN:CG	2:M:1102:LEU:HD21	2.36	0.54
3:N:996:TRP:CE3	3:N:1056:PRO:HG2	2.42	0.54
3:N:1029:ARG:HG3	3:N:1029:ARG:NH1	2.22	0.54
3:N:1032:PRO:O	3:N:1033:GLN:C	2.46	0.54
5:P:98:GLU:O	5:P:99:GLU:C	2.46	0.54
5:P:370:LYS:HA	5:P:374:GLY:H	1.73	0.54
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.90	0.54
2:C:212:GLY:HA3	2:C:218:VAL:HG11	1.89	0.54
2:C:1015:LEU:HD12	5:F:335:ASP:HB2	1.90	0.54
3:D:114:THR:O	3:D:114:THR:HG22	2.07	0.54
3:D:210:ARG:CB	3:D:389:GLU:HG3	2.35	0.54
3:D:268:ALA:HB3	3:D:290:PRO:HG3	1.90	0.54
3:D:582:LEU:CA	3:D:603:LEU:HD12	2.16	0.54
3:D:653:PHE:N	3:D:653:PHE:HD1	2.04	0.54
3:D:706:PRO:HB2	3:D:708:LEU:CD2	2.36	0.54
3:D:860:LEU:HA	3:D:877:PRO:CB	2.36	0.54
3:D:925:GLU:CD	4:E:6:ILE:HG22	2.28	0.54
3:D:984:THR:HG22	3:D:987:GLU:CB	2.38	0.54
3:D:1366:LYS:O	3:D:1369:GLU:N	2.41	0.54
3:D:1462:LEU:HD22	3:D:1472:ILE:HD12	1.88	0.54
5:F:289:GLU:O	5:F:293:GLU:HG3	2.08	0.54
1:L:161:ARG:CB	1:L:164:ALA:HB2	2.28	0.54
1:L:176:ARG:HD2	1:L:200:TRP:NE1	2.21	0.54
2:M:520:GLU:HA	2:M:520:GLU:OE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.90	0.54
3:N:217:LYS:CD	3:N:262:LYS:HZ1	2.21	0.54
3:N:441:ARG:C	3:N:443:VAL:N	2.59	0.54
3:N:614:PHE:HZ	10:N:1528:NE6:H21	1.72	0.54
3:N:1001:GLU:OE2	3:N:1001:GLU:CA	2.53	0.54
3:N:1046:GLN:CA	3:N:1052:THR:HA	2.38	0.54
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.08	0.54
4:O:71:GLY:O	4:O:73:LEU:N	2.41	0.54
5:P:107:GLU:O	5:P:110:MET:HB3	2.07	0.54
5:P:142:ARG:HD3	5:P:145:PRO:HA	1.90	0.54
5:P:242:TRP:CA	5:P:245:GLN:HG2	2.35	0.54
1:B:104:GLU:HB3	1:B:137:ARG:CB	2.37	0.54
2:C:327:HIS:HA	2:C:431:HIS:NE2	2.22	0.54
2:C:1032:PHE:N	3:D:621:LYS:O	2.33	0.54
3:D:118:LEU:HD23	3:D:123:LEU:HD13	1.89	0.54
3:D:560:GLN:HA	5:F:132:ARG:HH12	1.73	0.54
3:D:730:PRO:HA	3:D:733:CYS:SG	2.48	0.54
3:D:985:ASP:O	3:D:988:ARG:HB3	2.08	0.54
3:D:1283:ILE:HD12	3:D:1315:ASP:OD2	2.07	0.54
3:D:1315:ASP:O	3:D:1317:ASP:N	2.40	0.54
4:E:27:ALA:O	4:E:31:LEU:HG	2.07	0.54
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.90	0.54
2:M:486:MET:SD	2:M:491:GLU:CA	2.96	0.54
2:M:605:LYS:CB	2:M:610:ARG:NH2	2.70	0.54
2:M:809:GLY:C	2:M:811:PRO:CD	2.74	0.54
2:M:913:GLU:O	2:M:917:LEU:HG	2.08	0.54
2:M:953:VAL:HG13	2:M:966:LEU:CD1	2.38	0.54
3:N:154:THR:HG22	3:N:157:GLU:CD	2.27	0.54
3:N:500:ARG:O	3:N:504:ASP:CB	2.56	0.54
3:N:796:ARG:C	3:N:797:LYS:HG3	2.27	0.54
3:N:959:GLU:O	3:N:962:GLN:HB2	2.07	0.54
3:N:1120:VAL:N	3:N:1186:VAL:O	2.37	0.54
3:N:1124:GLN:HG3	3:N:1133:ARG:HB3	1.88	0.54
4:O:70:THR:O	4:O:72:ARG:N	2.40	0.54
5:P:102:LEU:O	5:P:106:VAL:HG23	2.08	0.54
5:P:365:GLU:HA	5:P:368:VAL:CG1	2.38	0.54
1:B:58:ILE:HD13	1:B:59:GLU:N	2.23	0.54
2:C:73:LEU:CB	2:C:93:PRO:O	2.56	0.54
2:C:133:ASP:HB2	2:C:632:ASN:OD1	2.06	0.54
2:C:346:VAL:HB	2:C:350:ARG:NH2	2.23	0.54
2:C:694:LEU:CD2	2:C:868:ASP:HB3	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:889:HIS:HD2	2:C:970:GLY:HA3	1.71	0.54
2:C:915:LYS:HD3	2:C:968:LEU:O	2.07	0.54
2:C:953:VAL:HG12	2:C:965:GLU:HB3	1.88	0.54
2:C:1013:TYR:O	2:C:1014:SER:C	2.46	0.54
3:D:109:PRO:HG2	3:D:111:LYS:CE	2.38	0.54
3:D:154:THR:HG23	3:D:156:GLU:OE2	2.08	0.54
3:D:177:ALA:HB3	3:D:191:LEU:O	2.07	0.54
3:D:349:PRO:CG	5:F:97:GLU:HG2	2.37	0.54
3:D:1354:LYS:HA	3:D:1357:ARG:HD2	1.90	0.54
1:K:57:TYR:HE1	1:K:163:ASN:HB2	1.73	0.54
2:M:151:ASP:HB2	2:M:158:TYR:HA	1.89	0.54
2:M:389:SER:HB3	2:M:392:SER:CB	2.38	0.54
2:M:396:ASP:HB2	2:M:406:HIS:CD2	2.43	0.54
2:M:672:VAL:HG23	2:M:868:ASP:OD2	2.08	0.54
2:M:896:PHE:O	2:M:898:GLY:N	2.40	0.54
2:M:1086:ARG:HD3	2:M:1112:PHE:CD2	2.42	0.54
3:N:59:ALA:HB3	3:N:76:CYS:HB2	1.89	0.54
3:N:147:VAL:CG2	3:N:148:GLU:N	2.56	0.54
3:N:154:THR:HG23	3:N:156:GLU:OE2	2.08	0.54
3:N:792:ILE:HD13	3:N:941:PHE:CE1	2.42	0.54
1:A:83:LYS:NZ	1:A:170:VAL:HG22	2.23	0.54
2:C:30:LEU:HD23	2:C:44:ILE:CD1	2.38	0.54
2:C:133:ASP:HB3	2:C:395:LYS:HB3	1.90	0.54
2:C:498:GLN:OE1	3:D:1067:VAL:HG13	2.07	0.54
2:C:895:TYR:CD2	2:C:895:TYR:C	2.81	0.54
3:D:167:GLU:HB3	3:D:169:TYR:CE1	2.43	0.54
3:D:604:THR:O	3:D:607:LEU:HB3	2.07	0.54
3:D:794:GLN:OE1	3:D:905:PRO:HG3	2.06	0.54
3:D:1311:LEU:CG	3:D:1312:LEU:N	2.71	0.54
2:M:252:LYS:HD3	2:M:298:PHE:CE1	2.43	0.54
2:M:603:VAL:CG1	2:M:645:VAL:HA	2.37	0.54
2:M:808:ARG:NH2	2:M:819:VAL:O	2.40	0.54
2:M:983:ILE:O	2:M:984:GLU:C	2.46	0.54
2:M:1088:LEU:CA	2:M:1091:GLU:OE1	2.52	0.54
3:N:84:ILE:HG23	3:N:85:VAL:N	2.22	0.54
3:N:564:GLU:CD	3:N:565:ILE:N	2.61	0.54
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.07	0.54
3:N:1216:SER:CB	4:O:16:LYS:H	2.20	0.54
3:N:1476:THR:HG21	4:O:20:THR:HB	1.89	0.54
3:N:1486:VAL:HG13	4:O:74:VAL:O	2.08	0.54
1:A:1:MET:N	1:A:6:LEU:HB2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:PHE:HB2	1:A:25:LEU:HD13	1.90	0.54
1:A:72:LYS:O	2:C:608:GLY:HA2	2.08	0.54
1:B:56:VAL:HG12	1:B:57:TYR:N	2.21	0.54
1:B:117:VAL:CG1	1:B:118:ALA:N	2.70	0.54
2:C:24:GLU:HA	2:C:27:ARG:HB3	1.88	0.54
2:C:159:ILE:HG22	2:C:174:LEU:O	2.08	0.54
2:C:533:ASP:HB3	2:C:538:GLN:OE1	2.08	0.54
2:C:595:LEU:HD21	2:C:639:GLN:NE2	2.23	0.54
2:C:685:GLU:CG	3:D:739:ASP:HB3	2.37	0.54
3:D:6:ARG:HH21	3:D:1482:ARG:HH22	1.56	0.54
3:D:65:ARG:HG2	3:D:67:ARG:HG2	1.89	0.54
3:D:153:LEU:CD1	3:D:157:GLU:HB3	2.38	0.54
3:D:287:GLY:C	3:D:311:LEU:HD22	2.28	0.54
3:D:564:GLU:HA	3:D:567:ILE:HB	1.88	0.54
3:D:592:THR:CG2	3:D:600:LEU:HD21	2.38	0.54
3:D:819:GLY:HA2	3:D:824:ASN:ND2	2.23	0.54
3:D:955:VAL:O	3:D:957:PRO:HD3	2.08	0.54
3:D:996:TRP:O	3:D:997:THR:C	2.46	0.54
3:D:1121:PRO:O	3:D:1122:LEU:HD23	2.07	0.54
3:D:1404:ASN:HA	3:D:1409:ALA:H	1.70	0.54
4:E:88:GLU:OE1	4:E:91:ARG:NH1	2.41	0.54
1:L:112:ARG:HH12	1:L:125:PRO:HB2	1.72	0.54
2:M:449:ILE:HD13	3:N:1082:ALA:HA	1.90	0.54
2:M:861:LEU:HB2	2:M:863:ASP:OD1	2.08	0.54
3:N:411:THR:CG2	5:P:179:GLU:HG3	2.26	0.54
3:N:692:GLU:O	3:N:693:GLU:C	2.45	0.54
3:N:806:PHE:CD2	3:N:809:PRO:HB2	2.43	0.54
3:N:924:MET:CG	3:N:925:GLU:N	2.71	0.54
3:N:1112:CYS:N	3:N:1201:CYS:CB	2.70	0.54
3:N:1123:PHE:HA	3:N:1133:ARG:O	2.08	0.54
3:N:1216:SER:HB2	4:O:16:LYS:H	1.71	0.54
3:N:1395:LEU:O	3:N:1398:TRP:CD1	2.61	0.54
5:P:329:TYR:O	5:P:332:PHE:CD1	2.61	0.54
1:A:123:MET:HA	1:A:123:MET:HE2	1.89	0.54
1:A:152:PRO:O	1:A:155:LYS:CB	2.56	0.54
2:C:10:ARG:NH1	2:C:481:ASP:OD1	2.41	0.54
2:C:289:THR:O	2:C:290:LEU:HD23	2.08	0.54
2:C:943:VAL:O	2:C:946:ARG:N	2.41	0.54
3:D:136:ASP:OD2	3:D:455:ARG:HD2	2.08	0.54
3:D:414:ARG:HH11	3:D:451:ASP:CG	2.11	0.54
3:D:437:VAL:HG13	3:D:437:VAL:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:441:ARG:HB3	3:D:443:VAL:HG23	1.89	0.54
3:D:489:ARG:HH21	3:D:1389:LEU:HD12	1.73	0.54
3:D:541:ASN:O	3:D:545:ARG:HG3	2.08	0.54
3:D:630:VAL:HA	3:D:744:GLN:HA	1.89	0.54
3:D:887:ALA:HA	3:D:890:VAL:HG22	1.90	0.54
3:D:1123:PHE:HA	3:D:1133:ARG:O	2.08	0.54
3:D:1311:LEU:HG	3:D:1313:VAL:H	1.73	0.54
3:D:1360:GLY:HA2	3:D:1362:LYS:NZ	2.23	0.54
1:L:20:TYR:HA	1:L:199:ILE:O	2.06	0.54
2:M:185:LYS:NZ	2:M:190:LYS:NZ	2.56	0.54
2:M:492:ASP:HA	2:M:518:LYS:HB3	1.90	0.54
3:N:14:SER:HB3	3:N:16:GLU:OE2	2.08	0.54
3:N:87:ARG:HG3	3:N:88:TYR:CE2	2.43	0.54
3:N:127:LEU:HD23	3:N:128:TYR:HA	1.89	0.54
3:N:499:VAL:HG12	3:N:503:LEU:HD12	1.90	0.54
3:N:1102:THR:HG22	3:N:1374:GLN:HG3	1.89	0.54
3:N:1478:SER:C	3:N:1482:ARG:HG3	2.29	0.54
5:P:95:THR:O	5:P:96:LEU:C	2.46	0.54
5:P:221:ILE:O	5:P:224:VAL:HB	2.08	0.54
1:A:127:LEU:HD12	1:A:128:HIS:N	2.23	0.53
1:A:200:TRP:N	1:A:200:TRP:CD1	2.76	0.53
1:B:181:VAL:HG22	1:B:195:LEU:HD13	1.90	0.53
2:C:343:GLN:HG2	2:C:385:PHE:CG	2.44	0.53
2:C:599:GLU:HG3	2:C:600:ASP:H	1.72	0.53
2:C:649:VAL:CG1	2:C:653:ASP:HB2	2.38	0.53
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.89	0.53
2:C:685:GLU:HG2	3:D:739:ASP:HB3	1.90	0.53
2:C:984:GLU:HG3	3:D:944:THR:O	2.08	0.53
2:C:994:ILE:CG2	2:C:995:MET:N	2.70	0.53
3:D:109:PRO:O	3:D:111:LYS:HE3	2.08	0.53
3:D:169:TYR:O	3:D:392:SER:HA	2.08	0.53
3:D:625:TYR:O	3:D:749:VAL:HG23	2.08	0.53
3:D:768:ASN:C	3:D:769:LEU:HD12	2.28	0.53
3:D:1092:GLY:O	3:D:1093:TYR:C	2.46	0.53
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.88	0.53
5:F:365:GLU:HA	5:F:368:VAL:CG1	2.36	0.53
1:K:20:TYR:C	1:K:207:PRO:HG2	2.28	0.53
1:L:150:TYR:CZ	1:L:168:ASP:HB3	2.42	0.53
2:M:166:PRO:HG2	2:M:262:ALA:O	2.08	0.53
2:M:299:LYS:HG2	2:M:300:ASP:N	2.23	0.53
2:M:517:ARG:O	2:M:520:GLU:HG2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:649:VAL:CG1	2:M:653:ASP:HB2	2.38	0.53
3:N:133:ILE:HD12	3:N:456:MET:HE1	1.89	0.53
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.30	0.53
3:N:1205:TYR:HD2	3:N:1215:VAL:HG11	1.73	0.53
4:O:85:LEU:HD23	4:O:85:LEU:H	1.72	0.53
5:P:223:ALA:HB2	5:P:242:TRP:CB	2.38	0.53
5:P:256:ARG:HB3	5:P:258:ILE:O	2.07	0.53
5:P:301:ALA:O	5:P:304:VAL:HB	2.08	0.53
5:P:308:LEU:H	5:P:308:LEU:CD2	2.21	0.53
1:A:75:VAL:O	1:A:79:ILE:HG13	2.08	0.53
1:A:189:ARG:HA	11:A:317:HOH:O	2.08	0.53
1:A:228:PRO:C	1:A:229:GLN:HG3	2.28	0.53
1:B:56:VAL:HG22	1:B:142:VAL:HG13	1.90	0.53
1:B:206:THR:CG2	1:B:208:LEU:HB3	2.38	0.53
2:C:5:ARG:HG2	2:C:902:ILE:HD12	1.90	0.53
2:C:254:VAL:HB	2:C:258:TYR:CE1	2.43	0.53
2:C:384:GLU:HA	2:C:388:ARG:HH21	1.74	0.53
2:C:461:VAL:HA	2:C:466:PHE:O	2.08	0.53
2:C:603:VAL:CG2	2:C:647:GLN:HB3	2.37	0.53
2:C:666:LEU:HD12	2:C:667:ALA:H	1.72	0.53
2:C:728:HIS:CG	2:C:729:LEU:N	2.77	0.53
2:C:1102:LEU:CD1	3:D:9:ARG:HB2	2.39	0.53
2:C:1104:GLU:C	2:C:1106:ASP:H	2.10	0.53
3:D:119:SER:C	3:D:121:THR:N	2.60	0.53
3:D:215:TYR:CE1	3:D:380:GLU:HB2	2.43	0.53
3:D:351:MET:HA	3:D:370:ALA:HB2	1.89	0.53
3:D:448:GLU:OE1	3:D:448:GLU:N	2.42	0.53
3:D:958:GLU:OE2	3:D:961:LYS:HG3	2.08	0.53
3:D:1216:SER:OG	4:E:16:LYS:HB3	2.09	0.53
3:D:1277:ILE:HG21	3:D:1299:PHE:CE1	2.43	0.53
4:E:26:ARG:O	4:E:30:LEU:HB2	2.08	0.53
4:E:46:PRO:HG2	4:E:63:TRP:CD1	2.44	0.53
5:F:272:SER:O	5:F:275:ALA:HB3	2.08	0.53
2:M:292:ARG:HE	2:M:295:ASP:HB3	1.71	0.53
2:M:622:GLU:O	2:M:624:PRO:HD3	2.08	0.53
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.38	0.53
2:M:738:ASP:OD2	2:M:739:GLU:OE2	2.26	0.53
2:M:998:TYR:HE2	2:M:1000:MET:HA	1.72	0.53
3:N:10:ILE:O	3:N:1451:ALA:HA	2.08	0.53
3:N:163:TYR:OH	5:P:186:HIS:CE1	2.61	0.53
3:N:411:THR:H	3:N:437:VAL:CG2	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:734:GLU:OE2	3:N:780:LYS:NZ	2.38	0.53
3:N:799:LYS:HB2	3:N:826:PRO:HG2	1.89	0.53
3:N:817:GLU:O	3:N:821:VAL:HG23	2.07	0.53
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.34	0.53
3:N:894:LYS:O	3:N:898:GLU:HG3	2.08	0.53
3:N:915:VAL:O	3:N:918:ALA:HB3	2.07	0.53
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.43	0.53
3:N:1435:LEU:O	3:N:1438:ALA:N	2.41	0.53
1:A:30:ARG:HH21	1:A:191:ASP:CB	2.22	0.53
1:A:70:GLY:N	2:C:607:ASP:HB2	2.22	0.53
2:C:141:HIS:CD2	2:C:334:ARG:HG2	2.43	0.53
2:C:397:GLU:HA	2:C:403:SER:HB3	1.89	0.53
2:C:571:LEU:CD1	2:C:700:TYR:HA	2.39	0.53
2:C:603:VAL:CG1	2:C:645:VAL:HA	2.38	0.53
2:C:634:GLY:HA3	2:C:704:HIS:CE1	2.42	0.53
3:D:325:GLU:HG2	3:D:332:TYR:HB3	1.91	0.53
3:D:414:ARG:HA	3:D:433:GLY:O	2.09	0.53
3:D:703:ASN:HD22	3:D:704:ARG:H	1.56	0.53
3:D:937:TYR:N	3:D:937:TYR:CD1	2.77	0.53
3:D:1045:MET:O	3:D:1053:PHE:HD1	1.91	0.53
3:D:1286:THR:HG22	3:D:1288:GLU:N	2.21	0.53
3:D:1447:LEU:O	3:D:1448:THR:C	2.47	0.53
5:F:287:THR:O	5:F:288:TYR:C	2.46	0.53
1:K:5:LYS:C	1:K:7:LYS:H	2.11	0.53
1:K:9:PRO:HB2	1:K:25:LEU:HD11	1.90	0.53
1:K:122:ILE:HG22	1:K:124:ASN:N	2.11	0.53
1:L:144:VAL:HG12	1:L:145:ASP:H	1.73	0.53
2:M:69:LEU:HB3	2:M:97:ARG:CB	2.39	0.53
2:M:101:ILE:HA	2:M:106:GLY:O	2.08	0.53
2:M:140:ILE:HD12	2:M:331:ARG:NH2	2.23	0.53
2:M:355:VAL:HA	2:M:358:ARG:NE	2.23	0.53
2:M:923:GLU:O	2:M:924:VAL:C	2.47	0.53
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.74	0.53
2:M:1005:MET:HE1	3:N:648:MET:HB2	1.89	0.53
3:N:124:GLU:HG3	3:N:128:TYR:CZ	2.44	0.53
3:N:238:PRO:CG	3:N:318:ARG:HG2	2.38	0.53
3:N:626:SER:HA	3:N:747:VAL:O	2.09	0.53
3:N:821:VAL:C	3:N:823:LEU:H	2.11	0.53
3:N:1032:PRO:O	3:N:1035:ILE:N	2.41	0.53
3:N:1171:VAL:O	3:N:1172:HIS:C	2.46	0.53
3:N:1465:ASN:ND2	3:N:1472:ILE:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:81:VAL:CG2	5:P:82:ARG:H	2.19	0.53
5:P:352:GLU:O	5:P:353:GLU:C	2.46	0.53
1:A:36:LEU:C	1:A:40:LEU:HD12	2.28	0.53
1:A:150:TYR:HD1	1:A:170:VAL:HG12	1.73	0.53
1:B:19:GLU:HG2	1:B:203:GLY:N	2.23	0.53
2:C:91:GLN:HB3	2:C:119:PRO:HA	1.90	0.53
2:C:208:ALA:HB2	2:C:221:LEU:HD22	1.90	0.53
2:C:396:ASP:OD1	2:C:402:SER:HB2	2.09	0.53
3:D:250:LEU:CD1	3:D:304:LEU:HA	2.39	0.53
3:D:397:LYS:O	3:D:447:VAL:HG13	2.09	0.53
3:D:434:ARG:HH21	3:D:451:ASP:CG	2.10	0.53
3:D:436:GLU:HB2	3:D:445:ARG:O	2.09	0.53
3:D:639:LEU:N	3:D:729:HIS:CE1	2.76	0.53
3:D:812:ALA:CA	3:D:816:HIS:HB2	2.26	0.53
3:D:972:LEU:H	3:D:972:LEU:HD23	1.71	0.53
5:F:82:ARG:O	5:F:85:LEU:HB2	2.09	0.53
5:F:231:ARG:HB2	5:F:233:PHE:CZ	2.44	0.53
5:F:353:GLU:HA	5:F:356:LYS:CD	2.38	0.53
1:K:69:PRO:O	1:K:71:VAL:HG23	2.06	0.53
1:L:182:GLU:O	1:L:194:LYS:HB3	2.08	0.53
2:M:41:ASN:HD22	2:M:42:VAL:N	2.05	0.53
2:M:437:ARG:HH11	2:M:437:ARG:HG3	1.73	0.53
2:M:572:ILE:HG13	2:M:701:THR:O	2.09	0.53
2:M:603:VAL:CG2	2:M:647:GLN:HB3	2.38	0.53
2:M:774:LEU:HD13	2:M:774:LEU:C	2.29	0.53
3:N:363:ALA:HA	3:N:380:GLU:HA	1.90	0.53
3:N:372:ASP:C	3:N:374:GLU:N	2.61	0.53
5:P:95:THR:O	5:P:98:GLU:HB2	2.08	0.53
5:P:110:MET:HG2	5:P:111:GLU:N	2.23	0.53
5:P:132:ARG:HG2	5:P:181:GLU:HG2	1.90	0.53
5:P:208:SER:HB3	5:P:211:ASP:CG	2.29	0.53
1:B:9:PRO:HA	1:B:27:PRO:HD2	1.90	0.53
2:C:841:ASN:CG	2:C:845:ASN:HB3	2.29	0.53
2:C:1048:THR:O	2:C:1052:MET:HB2	2.08	0.53
3:D:56:TYR:H	3:D:81:THR:C	2.11	0.53
3:D:218:LYS:HA	3:D:337:LEU:O	2.09	0.53
3:D:591:VAL:HG11	3:D:597:ASP:O	2.09	0.53
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.08	0.53
3:D:984:THR:CG2	3:D:987:GLU:H	2.21	0.53
3:D:1400:VAL:O	3:D:1404:ASN:ND2	2.42	0.53
2:M:94:LEU:N	2:M:116:GLY:O	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:603:VAL:HG21	2:M:647:GLN:HB3	1.89	0.53
2:M:625:LEU:CD1	2:M:639:GLN:HB2	2.37	0.53
3:N:99:ALA:O	3:N:514:LEU:HB2	2.08	0.53
3:N:99:ALA:N	3:N:514:LEU:O	2.39	0.53
3:N:124:GLU:O	3:N:125:GLN:C	2.47	0.53
3:N:530:VAL:O	3:N:531:ASP:C	2.47	0.53
3:N:1031:ASN:OD1	3:N:1034:GLN:HG3	2.09	0.53
3:N:1287:GLU:HB3	3:N:1288:GLU:OE1	2.09	0.53
3:N:1396:GLU:C	3:N:1398:TRP:N	2.61	0.53
5:P:403:LYS:NZ	5:P:407:LYS:HE2	2.22	0.53
5:P:410:TYR:O	5:P:413:SER:HB2	2.09	0.53
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.91	0.53
1:B:75:VAL:O	1:B:79:ILE:HG13	2.08	0.53
1:B:210:ALA:O	1:B:211:LEU:C	2.46	0.53
2:C:87:ASP:OD1	2:C:824:ARG:NH2	2.40	0.53
2:C:204:GLN:C	2:C:209:ARG:HD3	2.28	0.53
2:C:293:PHE:CD1	2:C:294:GLU:N	2.77	0.53
2:C:329:GLY:CA	2:C:488:ALA:HB3	2.38	0.53
2:C:571:LEU:HD11	2:C:700:TYR:HA	1.90	0.53
2:C:772:ARG:HD3	5:F:373:LYS:HD2	1.89	0.53
2:C:806:LEU:HB2	2:C:822:VAL:CG2	2.38	0.53
2:C:983:ILE:HG23	3:D:944:THR:O	2.08	0.53
3:D:9:ARG:CG	3:D:10:ILE:N	2.71	0.53
3:D:154:THR:H	3:D:157:GLU:CD	2.12	0.53
3:D:244:GLU:OE2	3:D:310:LEU:HD23	2.08	0.53
3:D:812:ALA:O	3:D:813:LEU:C	2.46	0.53
3:D:1119:SER:HB3	3:D:1185:GLU:HB3	1.91	0.53
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.74	0.53
3:D:1286:THR:HB	3:D:1289:LYS:N	2.23	0.53
3:D:1436:SER:O	3:D:1439:SER:HB3	2.08	0.53
5:F:94:LEU:CG	5:F:190:ALA:HB1	2.38	0.53
1:L:83:LYS:HE2	1:L:168:ASP:HB2	1.91	0.53
1:L:90:LEU:O	1:L:92:PRO:HD3	2.08	0.53
1:L:176:ARG:HG2	1:L:177:VAL:H	1.71	0.53
1:L:186:LEU:C	1:L:188:GLN:H	2.11	0.53
2:M:573:ARG:HB2	2:M:670:GLN:NE2	2.23	0.53
2:M:1010:THR:HA	3:N:624:ASP:OD1	2.09	0.53
2:M:1030:GLN:NE2	3:N:628:ARG:HH21	2.05	0.53
3:N:125:GLN:O	3:N:126:VAL:C	2.47	0.53
3:N:139:GLY:HA3	3:N:147:VAL:CG2	2.38	0.53
3:N:259:VAL:HG23	3:N:270:LEU:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:538:SER:OG	3:N:540:LEU:HG	2.09	0.53
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	1.91	0.53
3:N:1101:VAL:CG2	3:N:1428:ALA:HB2	2.21	0.53
3:N:1371:VAL:O	3:N:1374:GLN:HB2	2.09	0.53
5:P:110:MET:HG2	5:P:114:LYS:HE3	1.90	0.53
5:P:239:ALA:O	5:P:240:THR:C	2.46	0.53
1:B:138:LEU:HD11	1:B:140:MET:HE2	1.90	0.53
1:B:153:ALA:HB2	1:B:167:VAL:C	2.29	0.53
2:C:34:VAL:N	2:C:35:PRO:HD3	2.23	0.53
2:C:135:VAL:CG2	2:C:395:LYS:HA	2.38	0.53
2:C:193:LEU:HD12	2:C:196:LEU:CD1	2.36	0.53
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.89	0.53
2:C:545:ASN:CB	2:C:583:LEU:HD11	2.38	0.53
2:C:591:SER:O	2:C:592:LEU:HB2	2.09	0.53
2:C:695:LEU:O	2:C:832:LYS:NZ	2.33	0.53
2:C:897:LEU:HD13	2:C:917:LEU:HD22	1.90	0.53
2:C:1048:THR:O	2:C:1052:MET:N	2.36	0.53
3:D:69:GLU:HG3	3:D:70:GLY:H	1.73	0.53
3:D:432:TYR:N	3:D:432:TYR:CD1	2.76	0.53
3:D:546:ARG:HH21	3:D:577:ALA:CA	2.22	0.53
3:D:800:LYS:HE3	3:D:826:PRO:HD2	1.90	0.53
3:D:828:LYS:H	3:D:828:LYS:CD	2.22	0.53
3:D:1302:GLU:HG2	3:D:1303:TYR:N	2.23	0.53
4:E:84:ARG:HG2	4:E:88:GLU:HG3	1.91	0.53
5:F:243:ILE:O	5:F:247:ILE:HG13	2.08	0.53
5:F:289:GLU:CD	5:F:289:GLU:N	2.56	0.53
1:K:11:PHE:HB3	1:L:227:ASN:O	2.08	0.53
1:L:52:ALA:HB2	1:L:170:VAL:C	2.29	0.53
2:M:258:TYR:O	2:M:290:LEU:HD12	2.09	0.53
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.38	0.53
2:M:726:ILE:HG13	2:M:728:HIS:HB2	1.89	0.53
2:M:759:THR:HB	2:M:785:VAL:HG12	1.91	0.53
3:N:274:ARG:NE	3:N:279:VAL:HG21	2.24	0.53
3:N:387:LEU:N	3:N:387:LEU:CD1	2.70	0.53
3:N:458:ALA:O	3:N:459:GLU:C	2.46	0.53
3:N:630:VAL:CA	3:N:744:GLN:HG2	2.37	0.53
3:N:661:MET:HB3	3:N:667:ALA:CB	2.39	0.53
3:N:909:ASN:O	3:N:910:SER:C	2.46	0.53
3:N:1094:LEU:O	3:N:1095:THR:C	2.47	0.53
3:N:1121:PRO:CD	3:N:1346:ARG:HH21	2.21	0.53
4:O:70:THR:C	4:O:72:ARG:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:VAL:HG22	1:A:14:ARG:N	2.23	0.53
1:B:48:ILE:O	1:B:148:VAL:HG12	2.09	0.53
2:C:141:HIS:HD2	2:C:334:ARG:CG	2.21	0.53
2:C:231:PRO:O	2:C:235:LEU:HB2	2.07	0.53
2:C:424:GLY:O	2:C:427:VAL:N	2.39	0.53
2:C:673:LEU:HB2	2:C:868:ASP:OD2	2.09	0.53
2:C:712:ALA:O	2:C:820:ARG:N	2.26	0.53
2:C:728:HIS:CE1	2:C:730:SER:H	2.27	0.53
2:C:730:SER:OG	2:C:731:GLU:N	2.42	0.53
3:D:14:SER:O	3:D:15:PRO:C	2.47	0.53
3:D:297:ILE:CD1	3:D:298:VAL:HG23	2.18	0.53
3:D:401:TYR:HB2	3:D:444:VAL:CG2	2.38	0.53
3:D:481:MET:O	3:D:489:ARG:HG3	2.07	0.53
3:D:1162:GLU:O	3:D:1162:GLU:HG3	2.08	0.53
3:D:1479:ASP:HA	3:D:1482:ARG:HG3	1.89	0.53
3:D:1500:LYS:C	3:D:1502:ALA:N	2.61	0.53
5:F:115:LYS:HB3	5:F:119:ILE:HD11	1.91	0.53
5:F:274:THR:HG22	5:F:278:LEU:HD11	1.90	0.53
1:K:42:ARG:NH1	1:L:31:GLY:O	2.42	0.53
2:M:311:PHE:HA	2:M:314:THR:OG1	2.08	0.53
3:N:153:LEU:HD12	3:N:157:GLU:OE1	2.08	0.53
3:N:154:THR:HG22	3:N:157:GLU:CB	2.39	0.53
3:N:657:LEU:HG	3:N:661:MET:HE2	1.90	0.53
3:N:953:ASP:OD2	3:N:1019:PRO:HG2	2.09	0.53
3:N:959:GLU:HA	3:N:962:GLN:NE2	2.23	0.53
3:N:965:GLU:O	3:N:968:ASP:N	2.42	0.53
3:N:1293:PHE:CE2	3:N:1300:SER:HB3	2.44	0.53
5:P:102:LEU:CD2	5:P:187:LEU:HB2	2.39	0.53
2:C:30:LEU:HD23	2:C:44:ILE:HD12	1.91	0.53
2:C:876:VAL:HG13	2:C:881:ASN:ND2	2.24	0.53
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.91	0.53
3:D:135:LEU:HD11	3:D:148:GLU:HB2	1.90	0.53
3:D:842:VAL:HG23	3:D:842:VAL:O	2.09	0.53
3:D:1046:GLN:NE2	3:D:1050:GLY:HA2	2.23	0.53
1:L:91:ASN:HB3	1:L:94:LEU:CD1	2.39	0.53
2:M:56:GLU:OE2	2:M:356:ARG:HA	2.08	0.53
2:M:141:HIS:HB2	2:M:418:LEU:HD22	1.91	0.53
2:M:157:ARG:HD2	2:M:314:THR:HA	1.90	0.53
3:N:168:THR:HG21	5:P:93:LEU:CD2	2.37	0.53
3:N:191:LEU:HD23	3:N:195:VAL:HG12	1.90	0.53
3:N:212:ARG:HB3	3:N:386:HIS:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:353:VAL:O	3:N:353:VAL:HG23	2.09	0.53
3:N:361:VAL:HA	3:N:365:ASP:OD2	2.08	0.53
3:N:572:ARG:NH1	5:P:84:TYR:N	2.57	0.53
3:N:623:VAL:CG1	3:N:624:ASP:H	2.21	0.53
3:N:625:TYR:CD1	3:N:625:TYR:N	2.77	0.53
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.09	0.53
3:N:1347:TYR:CZ	3:N:1351:GLU:HG2	2.42	0.53
4:O:42:PRO:HG2	4:O:43:GLU:H	1.74	0.53
5:P:323:ASP:OD1	5:P:325:LYS:HB2	2.09	0.53
1:A:13:VAL:CG2	1:A:14:ARG:N	2.71	0.53
1:A:219:ARG:O	1:A:222:LEU:N	2.42	0.53
1:B:5:LYS:O	1:B:7:LYS:N	2.42	0.53
1:B:97:VAL:CG1	1:B:98:THR:H	2.19	0.53
2:C:41:ASN:HB3	2:C:49:ARG:NE	2.24	0.53
2:C:93:PRO:HA	2:C:117:HIS:HA	1.91	0.53
2:C:431:HIS:ND1	2:C:432:ARG:N	2.57	0.53
2:C:431:HIS:ND1	2:C:433:THR:N	2.51	0.53
2:C:545:ASN:HB3	2:C:583:LEU:HD11	1.90	0.53
2:C:603:VAL:HG21	2:C:643:VAL:HG22	1.89	0.53
2:C:939:ARG:CZ	2:C:981:GLU:HG2	2.37	0.53
2:C:1058:ASP:OD2	2:C:1084:SER:N	2.30	0.53
3:D:68:PHE:CZ	5:F:376:ILE:HG12	2.44	0.53
3:D:204:LEU:HB3	3:D:394:LEU:O	2.09	0.53
3:D:564:GLU:HB3	5:F:140:ARG:HD2	1.90	0.53
3:D:686:GLU:HA	3:D:689:ASP:OD2	2.09	0.53
3:D:703:ASN:ND2	3:D:704:ARG:N	2.57	0.53
3:D:1397:LYS:O	3:D:1401:GLU:HB2	2.09	0.53
3:D:1405:GLU:O	3:D:1412:LYS:CA	2.50	0.53
3:D:1464:GLU:CG	3:D:1465:ASN:N	2.71	0.53
3:D:1488:ASP:HA	4:E:73:LEU:CD1	2.39	0.53
5:F:110:MET:SD	5:F:114:LYS:HE3	2.49	0.53
5:F:355:GLU:CA	5:F:358:LEU:HB3	2.36	0.53
1:L:30:ARG:HD3	2:M:854:PRO:CG	2.38	0.53
1:L:94:LEU:O	1:L:146:ARG:NH2	2.41	0.53
2:M:26:TYR:O	2:M:29:ALA:HB3	2.09	0.53
2:M:48:PHE:C	2:M:50:GLU:H	2.12	0.53
2:M:164:PRO:HD3	2:M:266:ARG:CZ	2.38	0.53
2:M:233:GLU:O	2:M:237:ARG:HG3	2.09	0.53
2:M:463:GLU:OE2	2:M:464:LEU:HG	2.09	0.53
2:M:835:VAL:HG23	2:M:849:VAL:O	2.09	0.53
2:M:961:GLU:O	2:M:964:LYS:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1040:LEU:HD23	3:N:763:MET:HE3	1.89	0.53
3:N:42:ASP:H	3:N:46:ASP:CG	2.11	0.53
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.90	0.53
3:N:101:HIS:CE1	3:N:103:TRP:HB2	2.43	0.53
3:N:108:VAL:HA	3:N:109:PRO:C	2.29	0.53
3:N:140:ALA:N	3:N:450:TYR:HE2	2.06	0.53
3:N:287:GLY:C	3:N:311:LEU:HD22	2.29	0.53
3:N:341:GLU:OE1	3:N:343:LYS:HE3	2.09	0.53
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.88	0.53
3:N:511:TRP:N	3:N:511:TRP:HE3	2.07	0.53
3:N:709:HIS:HA	3:N:1227:GLN:HB3	1.90	0.53
3:N:711:LEU:C	3:N:713:ILE:H	2.12	0.53
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.72	0.53
3:N:1288:GLU:N	3:N:1288:GLU:OE1	2.42	0.53
3:N:1467:ILE:HD11	10:N:1528:NE6:C20	2.38	0.53
4:O:84:ARG:O	4:O:87:LYS:HB3	2.09	0.53
5:P:367:MET:O	5:P:368:VAL:C	2.47	0.53
1:A:24:VAL:HG12	1:A:25:LEU:N	2.23	0.52
1:B:87:VAL:CG1	1:B:122:ILE:HG12	2.38	0.52
2:C:353:ARG:HG2	2:C:353:ARG:NH1	2.21	0.52
2:C:602:GLU:HG2	2:C:603:VAL:N	2.23	0.52
3:D:12:LEU:HD12	3:D:511:TRP:HB2	1.91	0.52
3:D:16:GLU:O	3:D:20:SER:N	2.42	0.52
3:D:490:ALA:HA	3:D:493:ARG:HE	1.74	0.52
3:D:569:ASN:ND2	5:F:214:GLN:NE2	2.57	0.52
3:D:628:ARG:HG2	3:D:629:SER:N	2.22	0.52
3:D:1114:THR:HB	3:D:1195:GLN:CG	2.37	0.52
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.24	0.52
5:F:120:THR:HG22	5:F:122:LEU:HG	1.91	0.52
1:K:73:GLU:CD	1:K:130:ALA:HA	2.29	0.52
1:L:36:LEU:C	1:L:39:PRO:HD2	2.29	0.52
1:L:176:ARG:HB3	1:L:200:TRP:CD1	2.44	0.52
2:M:18:LEU:O	2:M:20:GLU:N	2.41	0.52
2:M:218:VAL:CG1	2:M:222:MET:HE2	2.38	0.52
2:M:232:GLU:HA	2:M:235:LEU:CD1	2.37	0.52
2:M:874:LEU:HD21	3:N:787:LEU:HD22	1.91	0.52
3:N:148:GLU:O	3:N:149:LYS:C	2.46	0.52
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.91	0.52
3:N:535:PHE:N	3:N:535:PHE:CD1	2.77	0.52
3:N:852:ALA:O	3:N:855:HIS:N	2.41	0.52
3:N:970:LYS:HE2	3:N:974:ILE:CG1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1112:CYS:HB3	3:N:1201:CYS:HB3	1.89	0.52
3:N:1286:THR:CG2	3:N:1289:LYS:H	2.22	0.52
3:N:1336:LEU:O	3:N:1340:GLY:N	2.42	0.52
3:N:1381:VAL:CG1	3:N:1391:GLU:HB2	2.39	0.52
5:P:154:LYS:O	5:P:156:VAL:N	2.42	0.52
5:P:305:GLU:O	5:P:309:LYS:HG3	2.09	0.52
1:A:30:ARG:HG3	2:C:938:LYS:HZ3	1.74	0.52
1:B:82:LEU:N	1:B:82:LEU:HD23	2.23	0.52
2:C:649:VAL:CG1	2:C:653:ASP:CB	2.87	0.52
2:C:724:ARG:HH21	2:C:734:LEU:HB2	1.74	0.52
2:C:1040:LEU:HD12	2:C:1049:LEU:HD13	1.90	0.52
2:C:1101:THR:C	2:C:1102:LEU:HD23	2.30	0.52
3:D:207:PHE:O	3:D:391:ALA:N	2.42	0.52
3:D:302:GLN:O	3:D:304:LEU:N	2.41	0.52
3:D:351:MET:CG	3:D:370:ALA:HB2	2.38	0.52
3:D:520:LEU:HD21	3:D:524:LEU:CB	2.39	0.52
3:D:534:ARG:NH2	5:F:314:PRO:O	2.43	0.52
3:D:556:LYS:O	3:D:559:ALA:HB3	2.08	0.52
3:D:807:ALA:HB2	3:D:833:GLU:CD	2.29	0.52
3:D:989:TYR:CA	3:D:992:ILE:HD12	2.37	0.52
3:D:1091:SER:C	3:D:1093:TYR:N	2.58	0.52
5:F:265:VAL:O	5:F:266:GLU:C	2.46	0.52
5:F:308:LEU:H	5:F:308:LEU:CD2	2.20	0.52
1:K:1:MET:N	1:K:6:LEU:HD13	2.20	0.52
1:K:112:ARG:HE	1:K:125:PRO:HB2	1.74	0.52
2:M:334:ARG:HH11	2:M:418:LEU:HD11	1.74	0.52
2:M:918:LEU:HD13	2:M:967:PHE:O	2.10	0.52
2:M:1095:LEU:O	2:M:1096:ALA:HB3	2.09	0.52
3:N:59:ALA:C	3:N:61:GLY:H	2.12	0.52
3:N:181:ASP:C	3:N:183:GLU:N	2.62	0.52
3:N:212:ARG:HD3	3:N:342:PRO:HB2	1.89	0.52
3:N:225:LEU:HD12	3:N:333:LEU:HD11	1.91	0.52
3:N:477:LEU:HD11	3:N:495:ARG:HD3	1.90	0.52
3:N:627:GLY:HA3	3:N:648:MET:HE2	1.91	0.52
3:N:844:ALA:N	3:N:848:GLU:OE1	2.42	0.52
3:N:1117:TYR:CD1	3:N:1118:ILE:N	2.77	0.52
1:A:109:VAL:CG1	1:A:129:ILE:HB	2.39	0.52
1:B:71:VAL:HG13	1:B:132:LEU:HD23	1.90	0.52
2:C:18:LEU:O	2:C:20:GLU:N	2.42	0.52
2:C:200:LEU:HD22	2:C:300:ASP:CB	2.39	0.52
2:C:631:SER:O	2:C:634:GLY:N	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:776:SER:CB	2:C:780:GLU:HB2	2.39	0.52
2:C:1000:MET:HB2	2:C:1003:ASP:HB2	1.91	0.52
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.39	0.52
3:D:252:ARG:NH2	3:D:300:LYS:HG2	2.24	0.52
3:D:536:ALA:HB1	5:F:317:LEU:HD23	1.91	0.52
3:D:760:ARG:HH12	4:E:61:GLU:HB2	1.74	0.52
3:D:1016:PRO:HA	3:D:1021:TYR:HD1	1.70	0.52
3:D:1381:VAL:CG2	3:D:1382:THR:N	2.72	0.52
5:F:348:SER:O	5:F:352:GLU:HG3	2.09	0.52
2:M:918:LEU:HD12	2:M:968:LEU:O	2.10	0.52
3:N:133:ILE:HB	3:N:454:ALA:CB	2.30	0.52
3:N:238:PRO:HD3	3:N:318:ARG:HA	1.91	0.52
3:N:410:SER:O	3:N:413:ASP:OD2	2.27	0.52
3:N:1491:THR:C	3:N:1493:LYS:N	2.63	0.52
5:P:93:LEU:O	5:P:95:THR:N	2.42	0.52
5:P:265:VAL:HG12	5:P:269:ASN:HD21	1.74	0.52
1:B:137:ARG:NH1	1:B:137:ARG:HG2	2.24	0.52
2:C:288:ARG:HG3	2:C:289:THR:N	2.24	0.52
2:C:517:ARG:O	2:C:518:LYS:HG2	2.09	0.52
2:C:778:PHE:CE2	5:F:419:ARG:NH1	2.78	0.52
2:C:806:LEU:HD22	2:C:813:VAL:HG22	1.91	0.52
3:D:14:SER:CB	3:D:17:LYS:H	2.20	0.52
3:D:379:ALA:O	3:D:380:GLU:HG3	2.10	0.52
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.91	0.52
3:D:811:GLU:O	3:D:816:HIS:N	2.40	0.52
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.40	0.52
3:D:1103:HIS:HB2	3:D:1223:ILE:HD11	1.90	0.52
4:E:70:THR:C	4:E:72:ARG:N	2.63	0.52
2:M:68:PHE:CZ	2:M:71:TYR:N	2.77	0.52
2:M:310:LEU:CD1	2:M:314:THR:HG23	2.40	0.52
2:M:499:ALA:HB2	2:M:533:ASP:HB2	1.90	0.52
2:M:720:GLU:C	2:M:721:ARG:HG3	2.29	0.52
2:M:970:GLY:O	2:M:988:VAL:HA	2.10	0.52
2:M:1030:GLN:HG2	3:N:626:SER:HB2	1.92	0.52
2:M:1114:GLY:C	2:M:1116:ALA:H	2.12	0.52
3:N:24:GLY:HA3	3:N:49:ILE:HG23	1.91	0.52
3:N:181:ASP:O	3:N:183:GLU:N	2.35	0.52
3:N:249:TYR:CE1	3:N:330:THR:CG2	2.92	0.52
3:N:654:LYS:O	3:N:657:LEU:HB3	2.09	0.52
3:N:1251:ASP:O	3:N:1270:ALA:HB2	2.10	0.52
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:110:MET:HE2	5:P:111:GLU:HG3	1.92	0.52
5:P:242:TRP:O	5:P:245:GLN:HG2	2.10	0.52
1:A:16:GLN:NE2	1:B:235:ALA:HB1	2.25	0.52
1:A:178:ALA:CB	2:C:864:GLY:HA3	2.39	0.52
1:B:73:GLU:HG3	1:B:130:ALA:CB	2.39	0.52
2:C:31:GLN:CA	2:C:35:PRO:HG2	2.39	0.52
2:C:211:LEU:C	2:C:213:ALA:N	2.59	0.52
2:C:240:THR:C	2:C:242:LEU:H	2.12	0.52
2:C:1015:LEU:CD1	5:F:335:ASP:HA	2.39	0.52
2:C:1031:ARG:CA	3:D:622:ARG:HH12	2.22	0.52
3:D:137:PRO:HG2	3:D:138:LYS:H	1.74	0.52
3:D:152:LEU:HD12	3:D:153:LEU:H	1.73	0.52
3:D:207:PHE:HB2	3:D:391:ALA:CB	2.37	0.52
3:D:226:PRO:CB	3:D:231:VAL:HG21	2.40	0.52
3:D:456:MET:SD	3:D:568:ARG:HD3	2.49	0.52
3:D:703:ASN:HD22	3:D:704:ARG:N	2.07	0.52
3:D:771:SER:O	3:D:775:GLY:N	2.42	0.52
3:D:1117:TYR:HD1	3:D:1118:ILE:N	2.08	0.52
3:D:1403:LEU:C	3:D:1405:GLU:N	2.63	0.52
1:K:24:VAL:HG22	1:K:196:THR:HG23	1.91	0.52
1:K:76:VAL:O	1:K:80:LEU:HG	2.10	0.52
1:K:86:VAL:HG12	1:K:124:ASN:CG	2.29	0.52
1:K:98:THR:HG21	1:K:141:GLU:HB3	1.92	0.52
2:M:401:LEU:O	2:M:404:LEU:HB3	2.10	0.52
2:M:419:THR:CG2	2:M:420:ARG:N	2.72	0.52
2:M:511:GLU:O	2:M:526:PRO:HD3	2.10	0.52
2:M:810:ASP:N	2:M:811:PRO:CD	2.73	0.52
2:M:1034:GLU:O	2:M:1035:MET:C	2.48	0.52
2:M:1085:PHE:O	2:M:1086:ARG:C	2.48	0.52
3:N:322:VAL:CG2	3:N:333:LEU:HD22	2.40	0.52
3:N:520:LEU:O	3:N:525:ARG:NH1	2.43	0.52
3:N:587:ARG:HB3	3:N:587:ARG:CZ	2.39	0.52
3:N:602:SER:H	3:N:605:ASP:CG	2.11	0.52
3:N:674:ARG:HG3	3:N:674:ARG:NH1	2.24	0.52
3:N:985:ASP:N	3:N:985:ASP:OD2	2.42	0.52
3:N:1435:LEU:O	3:N:1436:SER:C	2.47	0.52
4:O:40:LEU:HD12	4:O:41:GLU:H	1.74	0.52
5:P:152:ASP:HA	5:P:156:VAL:CG1	2.39	0.52
5:P:253:ASP:CA	5:P:259:ARG:HH12	2.20	0.52
5:P:355:GLU:C	5:P:358:LEU:HB3	2.30	0.52
1:A:34:VAL:C	1:A:36:LEU:N	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:ASN:HB2	11:B:702:HOH:O	2.09	0.52
2:C:543:ASN:HB2	2:C:565:GLN:NE2	2.25	0.52
3:D:28:LYS:O	3:D:43:GLY:HA2	2.10	0.52
3:D:164:GLY:HA3	3:D:447:VAL:CG1	2.40	0.52
3:D:219:GLU:HG2	3:D:220:ARG:N	2.23	0.52
3:D:227:LEU:HG	3:D:326:GLU:CD	2.30	0.52
3:D:406:ASP:HB2	3:D:423:ASP:CA	2.40	0.52
3:D:411:THR:HA	3:D:435:VAL:CG1	2.36	0.52
3:D:662:GLU:HA	3:D:667:ALA:O	2.09	0.52
3:D:1098:LEU:H	3:D:1098:LEU:HD12	1.75	0.52
3:D:1167:SER:HB3	3:D:1170:ASP:OD2	2.09	0.52
3:D:1381:VAL:HG22	3:D:1382:THR:N	2.24	0.52
3:D:1400:VAL:HB	3:D:1401:GLU:OE1	2.09	0.52
3:D:1485:GLN:OE1	4:E:79:LEU:N	2.41	0.52
4:E:39:VAL:HG11	4:E:72:ARG:HB3	1.91	0.52
5:F:291:ILE:O	5:F:292:ALA:C	2.47	0.52
5:F:382:THR:CG2	5:F:394:ARG:HB2	2.39	0.52
5:F:417:LYS:C	5:F:419:ARG:N	2.63	0.52
1:K:209:GLU:HA	1:K:212:ASN:ND2	2.25	0.52
1:L:175:ARG:N	1:L:200:TRP:O	2.42	0.52
2:M:95:TYR:HA	2:M:113:VAL:C	2.29	0.52
2:M:102:HIS:CG	2:M:365:ASP:OD1	2.63	0.52
2:M:157:ARG:CD	2:M:314:THR:HG22	2.35	0.52
2:M:166:PRO:HB2	2:M:169:GLY:HA3	1.91	0.52
2:M:513:VAL:N	2:M:524:VAL:O	2.42	0.52
2:M:691:SER:O	2:M:693:GLU:N	2.43	0.52
2:M:1039:ALA:CB	3:N:713:ILE:HD12	2.39	0.52
3:N:219:GLU:CG	3:N:220:ARG:H	2.12	0.52
3:N:525:ARG:N	3:N:526:PRO:CD	2.69	0.52
3:N:552:ASN:O	3:N:555:LYS:HB2	2.09	0.52
3:N:662:GLU:HG2	3:N:663:GLU:N	2.25	0.52
3:N:674:ARG:HG3	3:N:674:ARG:HH11	1.74	0.52
3:N:1442:ASN:HD21	3:N:1445:HIS:HB2	1.75	0.52
5:P:117:SER:CB	5:P:124:PRO:HG3	2.40	0.52
5:P:367:MET:HA	5:P:370:LYS:HG2	1.91	0.52
1:B:76:VAL:O	1:B:79:ILE:HB	2.10	0.52
2:C:23:VAL:HA	2:C:121:MET:HE3	1.86	0.52
2:C:41:ASN:O	2:C:46:ALA:HB2	2.09	0.52
2:C:180:GLY:HA2	2:C:223:ASP:CG	2.30	0.52
2:C:285:LEU:HD11	2:C:288:ARG:C	2.30	0.52
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1102:LEU:HD23	2:C:1108:PRO:HA	1.91	0.52
3:D:82:LYS:HB3	3:D:84:ILE:HG22	1.92	0.52
3:D:566:ILE:O	3:D:570:GLU:N	2.37	0.52
3:D:567:ILE:O	3:D:570:GLU:HB3	2.09	0.52
3:D:607:LEU:HG	3:D:608:SER:N	2.24	0.52
3:D:665:GLY:O	3:D:667:ALA:N	2.43	0.52
3:D:798:GLU:CG	3:D:799:LYS:N	2.73	0.52
3:D:970:LYS:O	3:D:973:GLN:HB2	2.09	0.52
3:D:1047:LYS:HG2	3:D:1053:PHE:CZ	2.44	0.52
3:D:1165:TYR:CE2	3:D:1206:GLY:HA2	2.45	0.52
3:D:1381:VAL:HG13	3:D:1389:LEU:O	2.10	0.52
3:D:1479:ASP:CA	3:D:1482:ARG:HG3	2.40	0.52
3:D:1491:THR:O	3:D:1494:ALA:HB3	2.10	0.52
4:E:26:ARG:O	4:E:30:LEU:CB	2.58	0.52
5:F:235:PHE:O	5:F:236:SER:C	2.47	0.52
5:F:319:THR:O	5:F:328:PHE:HA	2.10	0.52
1:K:74:ASP:O	1:K:78:ILE:HG13	2.10	0.52
2:M:6:PHE:HB2	2:M:902:ILE:O	2.09	0.52
2:M:104:ASP:OD1	2:M:104:ASP:N	2.42	0.52
2:M:193:LEU:O	2:M:196:LEU:HG	2.08	0.52
2:M:228:ALA:C	2:M:229:MET:HG3	2.30	0.52
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.91	0.52
2:M:421:GLU:O	2:M:421:GLU:HG2	2.09	0.52
2:M:799:ILE:HG13	2:M:799:ILE:O	2.09	0.52
2:M:816:LYS:HD2	2:M:816:LYS:H	1.73	0.52
2:M:854:PRO:O	2:M:856:GLU:N	2.42	0.52
2:M:863:ASP:OD2	2:M:865:THR:HG23	2.09	0.52
3:N:86:ARG:NH1	3:N:522:PRO:HB2	2.24	0.52
3:N:90:MET:HE2	3:N:519:VAL:O	2.09	0.52
3:N:129:PHE:O	3:N:130:SER:HB2	2.10	0.52
3:N:1102:THR:HB	3:N:1105:ILE:HD12	1.91	0.52
5:P:211:ASP:O	5:P:215:GLU:HG2	2.10	0.52
2:C:649:VAL:HG13	2:C:653:ASP:CG	2.29	0.52
2:C:676:ILE:CG1	2:C:873:PRO:HG3	2.40	0.52
2:C:727:PRO:HG2	2:C:785:VAL:O	2.10	0.52
2:C:857:ASP:HB3	2:C:978:ARG:HG2	1.92	0.52
2:C:885:ILE:HG22	2:C:886:LEU:N	2.25	0.52
3:D:412:GLY:N	3:D:435:VAL:HB	2.22	0.52
3:D:560:GLN:O	3:D:561:GLY:C	2.45	0.52
3:D:631:ILE:CG2	3:D:745:MET:HG3	2.32	0.52
3:D:729:HIS:HD2	3:D:731:LEU:H	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:945:SER:OG	3:D:947:ILE:CG2	2.57	0.52
3:D:966:GLU:O	3:D:969:ARG:HG2	2.09	0.52
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.09	0.52
3:D:1483:PHE:O	3:D:1484:THR:C	2.48	0.52
3:D:1497:GLU:O	3:D:1501:GLU:HB2	2.10	0.52
5:F:132:ARG:HB3	5:F:136:LEU:CD1	2.40	0.52
5:F:288:TYR:O	5:F:292:ALA:N	2.32	0.52
1:L:104:GLU:HB3	1:L:137:ARG:CG	2.28	0.52
2:M:112:GLU:OE1	2:M:112:GLU:HA	2.09	0.52
2:M:141:HIS:HE1	2:M:144:PRO:HD3	1.74	0.52
2:M:606:VAL:HG12	2:M:611:ILE:HG12	1.92	0.52
2:M:802:ARG:HG2	2:M:803:THR:N	2.24	0.52
3:N:266:GLU:OE2	3:N:315:ARG:NH1	2.41	0.52
3:N:584:ASN:OD1	3:N:590:PRO:CD	2.47	0.52
3:N:638:LYS:O	3:N:640:HIS:N	2.43	0.52
3:N:711:LEU:HD23	3:N:735:ALA:HB2	1.92	0.52
3:N:1147:ARG:HB2	3:N:1166:LEU:CD1	2.36	0.52
3:N:1152:GLU:HG2	3:N:1153:VAL:N	2.25	0.52
3:N:1208:ASP:OD1	3:N:1210:SER:N	2.32	0.52
3:N:1296:SER:O	3:N:1298:GLY:N	2.43	0.52
3:N:1304:LYS:HG2	3:N:1305:LEU:N	2.24	0.52
3:N:1401:GLU:OE1	3:N:1401:GLU:N	2.42	0.52
5:P:224:VAL:O	5:P:225:GLU:C	2.48	0.52
1:A:229:GLN:O	1:B:13:VAL:N	2.43	0.52
1:B:26:GLU:OE1	1:B:194:LYS:HG3	2.10	0.52
2:C:250:ARG:HB3	2:C:253:ALA:HB2	1.92	0.52
2:C:300:ASP:C	2:C:302:VAL:H	2.14	0.52
2:C:472:ARG:NH2	2:C:479:VAL:HG12	2.25	0.52
2:C:520:GLU:OE1	2:C:520:GLU:HA	2.08	0.52
3:D:166:GLN:HA	3:D:395:VAL:O	2.10	0.52
3:D:241:ILE:HD11	3:D:310:LEU:HD22	1.91	0.52
3:D:259:VAL:O	3:D:260:GLU:HG3	2.10	0.52
3:D:800:LYS:CE	3:D:826:PRO:HD3	2.39	0.52
3:D:1380:GLU:O	3:D:1417:TRP:HB2	2.10	0.52
5:F:117:SER:CB	5:F:124:PRO:HG3	2.40	0.52
1:L:216:GLU:O	1:L:217:ILE:C	2.48	0.52
2:M:157:ARG:HH11	2:M:314:THR:HA	1.74	0.52
2:M:202:TYR:HB2	2:M:207:LEU:HD21	1.92	0.52
2:M:311:PHE:HA	2:M:314:THR:HG1	1.74	0.52
2:M:789:SER:HB2	2:M:791:ARG:HE	1.75	0.52
2:M:1056:LYS:HD3	3:N:623:VAL:CG1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:142:LEU:HB2	3:N:145:VAL:O	2.10	0.52
3:N:355:VAL:CG1	3:N:359:ALA:HB3	2.40	0.52
3:N:409:VAL:CG1	3:N:413:ASP:OD2	2.57	0.52
3:N:527:MET:HA	3:N:537:THR:HG22	1.91	0.52
3:N:909:ASN:HA	3:N:912:LYS:NZ	2.25	0.52
3:N:951:ILE:HG23	3:N:952:ASP:N	2.25	0.52
3:N:988:ARG:O	3:N:989:TYR:C	2.47	0.52
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.31	0.52
3:N:1467:ILE:HD11	10:N:1528:NE6:C19	2.40	0.52
5:P:256:ARG:HG2	5:P:256:ARG:HH11	1.75	0.52
5:P:351:SER:HA	5:P:354:LEU:HD12	1.91	0.52
5:P:353:GLU:CG	5:P:417:LYS:HD3	2.40	0.52
5:P:353:GLU:HG3	5:P:356:LYS:HD2	1.92	0.52
1:A:36:LEU:O	1:A:39:PRO:HD2	2.09	0.52
1:A:50:GLY:N	1:A:147:GLY:O	2.42	0.52
1:A:81:ASN:HD22	1:A:81:ASN:N	2.08	0.52
1:A:88:ARG:HG3	1:A:204:SER:O	2.10	0.52
2:C:572:ILE:HD11	2:C:701:THR:HB	1.92	0.52
2:C:674:VAL:HA	2:C:869:VAL:O	2.09	0.52
3:D:135:LEU:N	3:D:135:LEU:CD2	2.64	0.52
3:D:348:GLN:HB2	3:D:351:MET:SD	2.50	0.52
3:D:443:VAL:HG12	3:D:444:VAL:N	2.25	0.52
3:D:527:MET:SD	3:D:537:THR:CG2	2.98	0.52
3:D:560:GLN:C	5:F:132:ARG:NH1	2.64	0.52
3:D:953:ASP:C	3:D:955:VAL:H	2.12	0.52
3:D:998:GLU:O	3:D:1001:GLU:HB3	2.09	0.52
4:E:80:VAL:HB	4:E:81:PRO:CD	2.39	0.52
5:F:79:ASP:O	5:F:80:PRO:C	2.46	0.52
1:K:178:ALA:HB2	2:M:864:GLY:CA	2.40	0.52
1:L:61:VAL:CG2	1:L:163:ASN:HB3	2.39	0.52
2:M:108:ILE:CG2	2:M:368:THR:HG21	2.40	0.52
2:M:373:VAL:CG1	2:M:374:ASN:H	2.18	0.52
2:M:514:VAL:HG23	2:M:514:VAL:O	2.10	0.52
2:M:640:ARG:O	2:M:656:ALA:HA	2.09	0.52
2:M:715:THR:HG22	2:M:717:LEU:N	2.23	0.52
2:M:807:ARG:C	2:M:809:GLY:H	2.12	0.52
2:M:907:ASP:CG	2:M:908:GLY:H	2.12	0.52
3:N:177:ALA:HB3	3:N:191:LEU:O	2.09	0.52
3:N:484:PRO:O	3:N:489:ARG:CB	2.51	0.52
3:N:664:LYS:O	3:N:666:ILE:HG12	2.09	0.52
3:N:787:LEU:O	3:N:788:GLY:C	2.48	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:851:LEU:O	3:N:854:ALA:HB3	2.10	0.52
3:N:937:TYR:H	3:N:937:TYR:HD1	1.56	0.52
3:N:1118:ILE:HG23	3:N:1190:SER:HB3	1.91	0.52
3:N:1299:PHE:N	3:N:1299:PHE:CD1	2.77	0.52
5:P:145:PRO:CB	5:P:150:THR:H	2.23	0.52
5:P:279:GLN:HA	5:P:284:ARG:O	2.10	0.52
5:P:380:GLU:HA	5:P:385:GLU:OE1	2.10	0.52
1:B:32:PHE:HA	1:B:35:THR:OG1	2.10	0.51
2:C:277:ALA:O	2:C:281:LEU:N	2.43	0.51
2:C:282:GLY:O	2:C:283:ILE:HD13	2.09	0.51
2:C:480:THR:HG22	2:C:482:GLU:H	1.73	0.51
2:C:580:MET:HB3	2:C:584:GLU:CD	2.29	0.51
2:C:589:ARG:HA	2:C:596:TYR:OH	2.10	0.51
2:C:713:ARG:H	2:C:720:GLU:CD	2.13	0.51
3:D:104:PHE:O	3:D:112:ILE:HG12	2.10	0.51
3:D:209:ARG:O	3:D:347:VAL:N	2.39	0.51
3:D:324:ALA:HB1	3:D:331:VAL:HG11	1.91	0.51
3:D:1099:VAL:HG12	10:D:1529:NE6:H14	1.91	0.51
3:D:1295:GLU:HG2	3:D:1300:SER:OG	2.09	0.51
3:D:1378:TYR:OH	3:D:1431:THR:HA	2.09	0.51
5:F:169:GLU:CD	5:F:169:GLU:H	2.12	0.51
5:F:378:GLY:HA3	5:F:381:HIS:NE2	2.24	0.51
5:F:381:HIS:O	5:F:384:GLU:N	2.37	0.51
2:M:8:ARG:HH11	2:M:8:ARG:HG3	1.76	0.51
2:M:122:THR:HG22	2:M:123:GLU:H	1.74	0.51
2:M:193:LEU:HD11	2:M:303:PHE:CD2	2.45	0.51
2:M:202:TYR:HB2	2:M:207:LEU:HD11	1.92	0.51
2:M:267:TYR:CD2	2:M:271:GLU:HB2	2.45	0.51
2:M:526:PRO:O	2:M:529:VAL:HG23	2.10	0.51
2:M:554:ASP:HA	3:N:1061:PHE:CZ	2.45	0.51
2:M:759:THR:HB	2:M:785:VAL:HG11	1.92	0.51
3:N:22:SER:OG	3:N:92:HIS:ND1	2.42	0.51
3:N:465:LEU:HD13	3:N:509:PRO:O	2.09	0.51
3:N:558:LEU:C	3:N:560:GLN:N	2.62	0.51
3:N:566:ILE:CA	3:N:569:ASN:HB3	2.40	0.51
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.25	0.51
3:N:701:LEU:O	3:N:747:VAL:HA	2.09	0.51
3:N:1428:ALA:C	3:N:1430:SER:H	2.14	0.51
4:O:26:ARG:O	4:O:29:GLN:HG2	2.10	0.51
4:O:86:GLN:O	4:O:90:GLU:HG3	2.10	0.51
5:P:368:VAL:O	5:P:371:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:54:ILE:HD13	2:C:355:VAL:CG1	2.39	0.51
2:C:308:ARG:O	2:C:311:PHE:HB2	2.10	0.51
2:C:513:VAL:HG12	2:C:514:VAL:N	2.24	0.51
2:C:513:VAL:N	2:C:524:VAL:O	2.42	0.51
2:C:689:VAL:HG21	2:C:870:ILE:HB	1.92	0.51
2:C:861:LEU:CB	2:C:862:PRO:HD2	2.40	0.51
2:C:914:ILE:C	2:C:916:GLU:N	2.62	0.51
2:C:983:ILE:O	2:C:985:GLY:N	2.43	0.51
3:D:36:THR:C	3:D:37:LEU:HG	2.31	0.51
3:D:39:PRO:HG2	3:D:53:ILE:HD11	1.92	0.51
3:D:583:ASP:OD2	3:D:586:ARG:HG2	2.10	0.51
3:D:900:ILE:HG22	3:D:902:LEU:N	2.25	0.51
3:D:1094:LEU:O	3:D:1095:THR:C	2.49	0.51
3:D:1103:HIS:HD2	3:D:1462:LEU:HB2	1.75	0.51
3:D:1398:TRP:HA	3:D:1402:ALA:H	1.76	0.51
5:F:135:ILE:HD11	5:F:178:ARG:HA	1.92	0.51
5:F:321:ILE:CG2	5:F:322:GLY:N	2.73	0.51
5:F:358:LEU:HG	5:F:359:SER:N	2.25	0.51
1:L:34:VAL:C	1:L:36:LEU:N	2.60	0.51
2:M:73:LEU:HB3	2:M:94:LEU:HA	1.93	0.51
2:M:263:ASP:HB2	2:M:264:PRO:CD	2.40	0.51
2:M:371:LYS:HA	5:P:280:GLN:OE1	2.09	0.51
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.10	0.51
2:M:678:PRO:O	3:N:943:THR:HG23	2.10	0.51
2:M:726:ILE:HG13	2:M:728:HIS:HB3	1.91	0.51
2:M:1007:ALA:HB2	3:N:648:MET:HE2	1.92	0.51
2:M:1072:LYS:C	3:N:659:LYS:HE3	2.31	0.51
3:N:249:TYR:CD2	3:N:288:MET:HE1	2.45	0.51
3:N:470:LEU:O	3:N:471:GLU:C	2.48	0.51
3:N:562:ALA:HB3	3:N:567:ILE:CD1	2.36	0.51
3:N:807:ALA:H	3:N:809:PRO:HD2	1.73	0.51
3:N:916:TYR:HH	3:N:1145:TYR:HH	1.56	0.51
3:N:1025:GLN:OE1	3:N:1025:GLN:HA	2.09	0.51
3:N:1183:ILE:C	3:N:1184:GLN:HG3	2.29	0.51
3:N:1380:GLU:O	3:N:1417:TRP:HB2	2.10	0.51
3:N:1402:ALA:HA	3:N:1415:VAL:CG2	2.40	0.51
5:P:203:THR:HG22	5:P:204:GLY:N	2.25	0.51
5:P:382:THR:HG22	5:P:397:ILE:HD12	1.91	0.51
2:C:240:THR:O	2:C:242:LEU:N	2.44	0.51
2:C:599:GLU:HB3	2:C:615:TYR:HD2	1.72	0.51
2:C:724:ARG:HH21	2:C:734:LEU:HB3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:773:LEU:CD1	2:C:777:ILE:HD11	2.40	0.51
3:D:41:ARG:HE	3:D:48:ARG:NE	2.09	0.51
3:D:156:GLU:H	3:D:156:GLU:CD	2.12	0.51
3:D:223:LEU:O	3:D:224:ARG:HD2	2.09	0.51
3:D:241:ILE:CG2	3:D:242:LEU:N	2.73	0.51
3:D:629:SER:O	3:D:744:GLN:HG2	2.11	0.51
3:D:709:HIS:O	3:D:712:GLY:N	2.40	0.51
3:D:798:GLU:HG3	3:D:799:LYS:HB2	1.92	0.51
3:D:907:GLU:O	3:D:908:LYS:C	2.48	0.51
3:D:1006:ALA:O	3:D:1010:ASN:N	2.30	0.51
3:D:1277:ILE:CG2	3:D:1278:ASP:H	2.11	0.51
5:F:118:GLU:O	5:F:120:THR:N	2.44	0.51
5:F:261:PRO:HB2	5:F:264:MET:CG	2.40	0.51
1:K:1:MET:N	1:K:6:LEU:HD22	2.24	0.51
2:M:928:LYS:O	2:M:931:GLY:N	2.44	0.51
3:N:131:LYS:CB	3:N:456:MET:HE2	2.41	0.51
3:N:186:VAL:O	3:N:189:GLN:HB2	2.10	0.51
3:N:986:ARG:O	3:N:989:TYR:HB3	2.11	0.51
5:P:81:VAL:CG2	5:P:82:ARG:N	2.73	0.51
5:P:126:LEU:O	5:P:129:GLU:HB3	2.09	0.51
5:P:145:PRO:CG	5:P:150:THR:H	2.23	0.51
5:P:244:ARG:O	5:P:248:ASN:ND2	2.44	0.51
5:P:271:LEU:O	5:P:274:THR:N	2.41	0.51
5:P:300:ASP:O	5:P:303:ARG:HB3	2.11	0.51
5:P:376:ILE:HG22	5:P:377:ASP:N	2.26	0.51
1:B:57:TYR:O	1:B:140:MET:HB2	2.10	0.51
1:B:144:VAL:HG12	1:B:145:ASP:N	2.25	0.51
1:B:226:SER:O	1:B:228:PRO:HD3	2.10	0.51
2:C:20:GLU:HA	2:C:23:VAL:HG22	1.91	0.51
2:C:145:GLY:HA3	2:C:276:LYS:CD	2.40	0.51
2:C:195:LEU:HD12	2:C:238:LEU:CD2	2.41	0.51
2:C:380:ALA:O	2:C:384:GLU:N	2.42	0.51
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.93	0.51
2:C:747:ALA:O	2:C:799:ILE:HA	2.10	0.51
2:C:834:GLN:HB2	11:C:1128:HOH:O	2.10	0.51
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.93	0.51
2:C:1005:MET:CE	3:D:648:MET:HB2	2.41	0.51
2:C:1046:ALA:CA	3:D:1472:ILE:HB	2.40	0.51
3:D:33:ASN:O	3:D:37:LEU:CA	2.59	0.51
3:D:566:ILE:CG1	3:D:567:ILE:N	2.74	0.51
3:D:674:ARG:HH11	3:D:674:ARG:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:792:ILE:HG21	3:D:941:PHE:CE1	2.46	0.51
3:D:880:ILE:O	3:D:883:ALA:HB3	2.10	0.51
3:D:1108:ARG:HE	3:D:1199:GLY:CA	2.22	0.51
3:D:1237:THR:O	3:D:1255:GLY:HA3	2.10	0.51
5:F:328:PHE:O	5:F:329:TYR:C	2.49	0.51
5:F:358:LEU:HD21	5:F:370:LYS:NZ	2.25	0.51
5:F:370:LYS:CG	5:F:371:LEU:N	2.73	0.51
1:K:5:LYS:NZ	1:K:29:GLU:N	2.59	0.51
1:L:91:ASN:ND2	1:L:93:SER:H	2.08	0.51
2:M:41:ASN:O	2:M:46:ALA:N	2.43	0.51
2:M:328:LEU:HG	2:M:433:THR:OG1	2.11	0.51
2:M:343:GLN:O	2:M:346:VAL:HG22	2.10	0.51
3:N:95:LEU:CD1	3:N:99:ALA:HB2	2.41	0.51
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.45	0.51
3:N:591:VAL:HG21	3:N:597:ASP:HA	1.92	0.51
3:N:592:THR:HG23	3:N:600:LEU:CD2	2.36	0.51
3:N:767:HIS:HA	3:N:924:MET:CE	2.41	0.51
3:N:768:ASN:C	3:N:769:LEU:HD12	2.29	0.51
3:N:1403:LEU:HD23	3:N:1408:ILE:HD11	1.91	0.51
5:P:353:GLU:C	5:P:356:LYS:HB2	2.30	0.51
5:P:361:LEU:CD1	5:P:362:SER:H	2.24	0.51
1:A:14:ARG:CB	1:B:233:VAL:HA	2.20	0.51
1:A:104:GLU:HG2	1:A:105:GLY:N	2.25	0.51
2:C:129:ILE:HG12	2:C:134:ARG:HB2	1.91	0.51
2:C:152:PRO:HG2	2:C:153:ALA:H	1.74	0.51
2:C:185:LYS:CA	2:C:190:LYS:HB3	2.38	0.51
2:C:205:GLU:N	2:C:209:ARG:NH1	2.58	0.51
2:C:377:PRO:HG2	2:C:378:LEU:H	1.75	0.51
2:C:881:ASN:ND2	2:C:881:ASN:N	2.45	0.51
3:D:136:ASP:N	3:D:453:ASP:O	2.41	0.51
3:D:244:GLU:HA	3:D:309:GLY:C	2.31	0.51
3:D:403:PHE:HB2	3:D:423:ASP:OD1	2.10	0.51
3:D:523:ASP:CA	3:D:526:PRO:HG3	2.39	0.51
3:D:1269:LYS:H	3:D:1269:LYS:CE	2.23	0.51
3:D:1367:HIS:O	3:D:1370:ILE:HB	2.10	0.51
5:F:343:ASP:C	5:F:347:GLN:NE2	2.64	0.51
1:K:38:ASN:HB3	1:K:39:PRO:CD	2.40	0.51
1:K:101:LEU:C	1:K:102:LYS:HG3	2.30	0.51
1:K:170:VAL:HG23	1:K:170:VAL:O	2.10	0.51
2:M:183:SER:HB3	2:M:185:LYS:HE2	1.92	0.51
2:M:677:MET:N	2:M:871:LEU:O	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:945:ARG:O	2:M:949:LYS:HG3	2.11	0.51
3:N:421:LEU:HD11	3:N:429:SER:N	2.25	0.51
3:N:653:PHE:N	3:N:653:PHE:HD1	2.07	0.51
3:N:658:LEU:HA	3:N:661:MET:CE	2.34	0.51
3:N:960:LYS:HG2	3:N:964:LEU:HD11	1.92	0.51
5:P:355:GLU:HA	5:P:358:LEU:HD23	1.92	0.51
5:P:386:VAL:CG2	5:P:387:GLY:H	2.22	0.51
1:B:175:ARG:HG2	1:B:175:ARG:NH1	2.26	0.51
2:C:266:ARG:HD2	2:C:273:GLY:CA	2.40	0.51
2:C:346:VAL:CG2	2:C:347:GLY:H	2.19	0.51
2:C:774:LEU:HD13	2:C:775:ARG:N	2.26	0.51
2:C:1102:LEU:O	3:D:7:LYS:O	2.29	0.51
3:D:85:VAL:CG2	3:D:89:ARG:NE	2.73	0.51
3:D:135:LEU:H	3:D:135:LEU:CD2	2.16	0.51
3:D:671:LYS:O	3:D:674:ARG:HB2	2.11	0.51
3:D:957:PRO:CG	3:D:1010:ASN:HD22	2.07	0.51
3:D:969:ARG:O	3:D:972:LEU:HB2	2.11	0.51
3:D:1126:ASP:HA	3:D:1128:VAL:O	2.10	0.51
2:M:260:LEU:CD1	2:M:288:ARG:HG2	2.41	0.51
2:M:599:GLU:HA	2:M:599:GLU:OE1	2.10	0.51
2:M:626:ARG:HG3	2:M:626:ARG:HH11	1.76	0.51
2:M:745:ILE:CG2	2:M:746:GLY:N	2.73	0.51
3:N:83:SER:O	3:N:86:ARG:HB2	2.11	0.51
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.41	0.51
3:N:89:ARG:O	3:N:521:PRO:HG3	2.11	0.51
3:N:173:PRO:HA	3:N:209:ARG:HH11	1.76	0.51
3:N:228:ALA:HA	3:N:326:GLU:OE1	2.11	0.51
3:N:411:THR:HA	3:N:435:VAL:HG12	1.91	0.51
3:N:686:GLU:H	3:N:686:GLU:CD	2.14	0.51
3:N:807:ALA:HB2	3:N:833:GLU:OE1	2.10	0.51
3:N:828:LYS:H	3:N:828:LYS:CD	2.23	0.51
3:N:936:TYR:C	3:N:936:TYR:CD2	2.84	0.51
3:N:961:LYS:O	3:N:964:LEU:HB2	2.11	0.51
3:N:1035:ILE:O	3:N:1036:ARG:C	2.49	0.51
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.10	0.51
3:N:1445:HIS:O	3:N:1449:GLU:OE2	2.27	0.51
3:N:1464:GLU:CG	3:N:1465:ASN:N	2.74	0.51
5:P:262:VAL:C	5:P:264:MET:H	2.13	0.51
5:P:382:THR:HG22	5:P:394:ARG:CB	2.40	0.51
5:P:393:THR:HG22	5:P:394:ARG:N	2.26	0.51
1:B:43:ILE:HA	1:B:46:SER:OG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:43:ILE:HG23	1:B:47:SER:HB2	1.93	0.51
1:B:175:ARG:HG2	1:B:175:ARG:HH11	1.74	0.51
2:C:142:ARG:HD3	2:C:163:ILE:CD1	2.41	0.51
2:C:184:MET:CG	2:C:193:LEU:HD13	2.40	0.51
2:C:444:PRO:HD2	2:C:452:ILE:O	2.09	0.51
2:C:628:PHE:N	2:C:628:PHE:CD1	2.77	0.51
2:C:888:THR:HA	2:C:991:GLN:O	2.11	0.51
2:C:946:ARG:HE	3:D:796:ARG:NH2	2.09	0.51
2:C:987:ILE:HD13	3:D:948:THR:HG23	1.92	0.51
3:D:703:ASN:HB3	3:D:746:ALA:HB3	1.93	0.51
3:D:756:GLN:O	3:D:759:ALA:HB3	2.11	0.51
3:D:769:LEU:N	3:D:769:LEU:CD1	2.73	0.51
3:D:1015:TYR:N	3:D:1016:PRO:CD	2.74	0.51
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.51
3:D:1296:SER:HB3	3:D:1299:PHE:CD1	2.46	0.51
3:D:1374:GLN:HA	3:D:1377:LYS:HB2	1.92	0.51
3:D:1451:ALA:O	3:D:1454:GLY:N	2.41	0.51
2:M:643:VAL:HG23	2:M:647:GLN:NE2	2.26	0.51
2:M:1015:LEU:O	2:M:1018:GLN:NE2	2.44	0.51
3:N:22:SER:HB2	3:N:24:GLY:O	2.10	0.51
3:N:274:ARG:CB	3:N:279:VAL:HG21	2.31	0.51
3:N:399:ARG:O	3:N:401:TYR:HD1	1.94	0.51
3:N:555:LYS:CA	3:N:558:LEU:HD12	2.37	0.51
3:N:760:ARG:O	3:N:764:LEU:HB2	2.11	0.51
3:N:826:PRO:HB3	3:N:828:LYS:NZ	2.26	0.51
3:N:1492:LEU:HD11	4:O:74:VAL:HG21	1.93	0.51
4:O:29:GLN:C	4:O:31:LEU:H	2.13	0.51
4:O:40:LEU:CG	4:O:44:GLU:HB2	2.40	0.51
5:P:92:PRO:C	5:P:94:LEU:H	2.13	0.51
5:P:156:VAL:HG23	5:P:157:GLU:CD	2.30	0.51
5:P:236:SER:O	5:P:238:TYR:N	2.44	0.51
5:P:306:GLU:OE1	5:P:306:GLU:HA	2.11	0.51
5:P:330:GLY:CA	5:P:333:ILE:HD13	2.40	0.51
5:P:368:VAL:CG2	5:P:369:LEU:H	1.95	0.51
5:P:401:GLU:HG2	5:P:402:ASN:N	2.25	0.51
1:B:58:ILE:HG23	1:B:61:VAL:HB	1.88	0.51
1:B:87:VAL:HG12	1:B:122:ILE:HA	1.91	0.51
2:C:129:ILE:HG12	2:C:134:ARG:CB	2.41	0.51
2:C:200:LEU:HB3	2:C:202:TYR:CE2	2.46	0.51
2:C:695:LEU:HD22	2:C:832:LYS:HG2	1.93	0.51
3:D:23:TYR:CD2	3:D:89:ARG:HD3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:59:ALA:HB3	3:D:76:CYS:HB2	1.93	0.51
3:D:367:ILE:HB	3:D:377:VAL:HG11	1.87	0.51
3:D:441:ARG:HD3	3:D:443:VAL:CG2	2.40	0.51
3:D:617:ASN:HB3	3:D:619:LEU:HG	1.92	0.51
3:D:701:LEU:HD21	3:D:715:ALA:HB2	1.92	0.51
3:D:936:TYR:C	3:D:936:TYR:CD2	2.84	0.51
3:D:1288:GLU:OE1	3:D:1288:GLU:N	2.44	0.51
3:D:1336:LEU:O	3:D:1340:GLY:N	2.43	0.51
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.25	0.51
5:F:231:ARG:CB	5:F:233:PHE:CE2	2.94	0.51
5:F:408:LEU:HG	5:F:409:LYS:N	2.26	0.51
1:K:40:LEU:O	1:K:41:ARG:C	2.48	0.51
2:M:186:VAL:CG1	2:M:187:ASN:H	2.10	0.51
2:M:205:GLU:HA	2:M:209:ARG:HD3	1.92	0.51
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.32	0.51
2:M:725:ASP:OD2	2:M:783:ARG:NH1	2.41	0.51
2:M:768:THR:HG22	2:M:770:GLU:H	1.75	0.51
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.41	0.51
2:M:1099:VAL:HA	3:N:9:ARG:O	2.10	0.51
3:N:470:LEU:HB2	3:N:503:LEU:CG	2.41	0.51
3:N:584:ASN:OD1	3:N:585:GLY:N	2.44	0.51
3:N:1125:PRO:HA	3:N:1131:SER:O	2.10	0.51
3:N:1254:GLN:HG2	3:N:1255:GLY:H	1.75	0.51
3:N:1282:ARG:HB3	3:N:1293:PHE:HB3	1.92	0.51
3:N:1485:GLN:N	4:O:76:GLY:O	2.35	0.51
5:P:172:ARG:O	5:P:176:ILE:HG13	2.11	0.51
5:P:207:LEU:O	5:P:212:LEU:HD21	2.11	0.51
5:P:256:ARG:HH21	5:P:311:ALA:HA	1.75	0.51
5:P:359:SER:C	5:P:361:LEU:H	2.14	0.51
1:A:178:ALA:HB2	2:C:864:GLY:CA	2.39	0.51
2:C:395:LYS:HD3	2:C:397:GLU:OE1	2.11	0.51
2:C:906:PHE:CE2	3:D:1067:VAL:HA	2.46	0.51
2:C:910:LYS:C	2:C:914:ILE:HD13	2.31	0.51
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.91	0.51
3:D:295:GLY:O	3:D:296:GLU:HG3	2.10	0.51
3:D:425:GLY:C	3:D:427:VAL:H	2.14	0.51
3:D:999:THR:O	3:D:1003:VAL:HG23	2.11	0.51
3:D:1011:PHE:HE1	3:D:1018:ASN:ND2	2.09	0.51
3:D:1067:VAL:HG13	3:D:1068:LEU:H	1.74	0.51
3:D:1106:VAL:CG1	3:D:1107:VAL:N	2.74	0.51
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:20:THR:O	4:E:21:VAL:C	2.49	0.51
4:E:87:LYS:HE3	4:E:91:ARG:HH22	1.76	0.51
5:F:269:ASN:O	5:F:270:LYS:C	2.49	0.51
1:K:219:ARG:HG2	1:K:219:ARG:HH11	1.74	0.51
1:L:12:THR:OG1	1:L:24:VAL:HB	2.11	0.51
1:L:57:TYR:O	1:L:140:MET:HB2	2.11	0.51
1:L:176:ARG:HD3	3:N:884:ARG:NH2	2.26	0.51
2:M:12:VAL:HG23	2:M:13:ILE:N	2.26	0.51
2:M:18:LEU:C	2:M:20:GLU:H	2.15	0.51
2:M:243:ARG:CG	2:M:244:PRO:CA	2.88	0.51
2:M:343:GLN:HG2	2:M:385:PHE:CB	2.41	0.51
2:M:675:ALA:O	2:M:677:MET:HG2	2.10	0.51
3:N:191:LEU:HB3	3:N:195:VAL:O	2.10	0.51
3:N:406:ASP:N	3:N:423:ASP:OD1	2.44	0.51
3:N:411:THR:HG21	5:P:179:GLU:HG2	1.92	0.51
3:N:490:ALA:O	3:N:493:ARG:HG2	2.11	0.51
3:N:561:GLY:HA2	5:P:140:ARG:HH21	1.75	0.51
3:N:971:LEU:O	3:N:974:ILE:HB	2.11	0.51
3:N:1083:ASP:O	3:N:1086:LEU:HB2	2.10	0.51
3:N:1406:ARG:HG2	3:N:1412:LYS:CD	2.41	0.51
3:N:1495:ILE:CG2	3:N:1496:GLU:N	2.71	0.51
4:O:40:LEU:HG	4:O:44:GLU:HB2	1.93	0.51
1:A:34:VAL:C	1:A:36:LEU:H	2.14	0.51
2:C:144:PRO:CB	2:C:266:ARG:HB3	2.40	0.51
2:C:151:ASP:N	2:C:158:TYR:HA	2.18	0.51
2:C:157:ARG:NH1	2:C:158:TYR:OH	2.44	0.51
2:C:628:PHE:N	2:C:628:PHE:HD1	2.09	0.51
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.92	0.51
3:D:14:SER:O	3:D:18:ILE:N	2.30	0.51
3:D:27:GLU:C	3:D:28:LYS:HD3	2.30	0.51
3:D:322:VAL:HG22	3:D:333:LEU:HD22	1.93	0.51
3:D:444:VAL:HG23	3:D:444:VAL:O	2.11	0.51
3:D:1286:THR:CB	3:D:1289:LYS:H	2.23	0.51
5:F:235:PHE:O	5:F:238:TYR:HB3	2.11	0.51
1:L:56:VAL:HG12	1:L:57:TYR:H	1.76	0.51
1:L:89:PHE:HD2	1:L:94:LEU:HB2	1.75	0.51
2:M:73:LEU:CB	2:M:93:PRO:O	2.59	0.51
2:M:73:LEU:HD12	2:M:73:LEU:O	2.11	0.51
2:M:203:ASP:OD1	2:M:205:GLU:HB3	2.11	0.51
2:M:470:PRO:HG3	2:M:485:TYR:OH	2.09	0.51
3:N:521:PRO:C	3:N:525:ARG:HH12	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:562:ALA:CB	3:N:567:ILE:HD11	2.37	0.51
3:N:582:LEU:HA	3:N:603:LEU:HD12	1.92	0.51
3:N:648:MET:O	3:N:649:ALA:C	2.50	0.51
3:N:911:LEU:O	3:N:912:LYS:C	2.49	0.51
3:N:961:LYS:HA	3:N:964:LEU:HD12	1.93	0.51
3:N:995:LEU:HG	3:N:996:TRP:N	2.25	0.51
3:N:1422:MET:SD	3:N:1427:SER:HA	2.51	0.51
3:N:1472:ILE:HD13	3:N:1473:PRO:CD	2.41	0.51
4:O:30:LEU:O	4:O:34:GLY:O	2.29	0.51
5:P:111:GLU:HA	5:P:114:LYS:CG	2.41	0.51
5:P:150:THR:O	5:P:152:ASP:N	2.44	0.51
5:P:291:ILE:O	5:P:292:ALA:C	2.49	0.51
5:P:380:GLU:HA	5:P:385:GLU:CD	2.31	0.51
1:B:112:ARG:NH2	1:B:125:PRO:HB2	2.25	0.50
1:B:112:ARG:HH22	1:B:125:PRO:HB2	1.76	0.50
2:C:45:GLN:HA	2:C:48:PHE:HD1	1.76	0.50
2:C:115:LEU:HD23	2:C:115:LEU:N	2.25	0.50
2:C:1012:PRO:HB2	2:C:1021:LEU:O	2.11	0.50
3:D:349:PRO:CB	5:F:97:GLU:HG2	2.41	0.50
3:D:583:ASP:HA	3:D:602:SER:OG	2.11	0.50
3:D:653:PHE:O	3:D:654:LYS:C	2.48	0.50
5:F:138:SER:HA	5:F:141:VAL:HG13	1.93	0.50
5:F:251:ILE:O	5:F:255:ALA:CB	2.59	0.50
5:F:350:LEU:O	5:F:352:GLU:N	2.44	0.50
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.45	0.50
1:K:56:VAL:HG21	1:K:82:LEU:HD12	1.93	0.50
1:L:19:GLU:HA	1:L:201:THR:OG1	2.10	0.50
1:L:88:ARG:O	1:L:120:VAL:HA	2.10	0.50
2:M:211:LEU:O	2:M:213:ALA:N	2.44	0.50
2:M:1036:GLU:O	2:M:1037:VAL:C	2.50	0.50
3:N:319:ALA:HA	3:N:336:PHE:O	2.10	0.50
3:N:402:PRO:CB	3:N:443:VAL:HG22	2.41	0.50
3:N:598:ARG:HG2	3:N:598:ARG:NH1	2.27	0.50
3:N:605:ASP:OD1	3:N:605:ASP:N	2.34	0.50
3:N:610:LYS:NZ	3:N:1441:GLN:HA	2.26	0.50
3:N:618:LEU:N	3:N:618:LEU:HD23	2.25	0.50
3:N:1344:VAL:HG13	3:N:1345:GLU:N	2.26	0.50
1:B:151:VAL:O	1:B:168:ASP:HA	2.11	0.50
1:B:186:LEU:C	1:B:188:GLN:H	2.15	0.50
2:C:94:LEU:N	2:C:116:GLY:O	2.43	0.50
2:C:151:ASP:HB2	2:C:158:TYR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:249:LYS:O	2:C:251:ASP:N	2.44	0.50
2:C:266:ARG:HD2	2:C:273:GLY:HA3	1.93	0.50
2:C:569:VAL:HG12	2:C:996:LYS:O	2.12	0.50
2:C:759:THR:HG22	2:C:787:ASP:HA	1.93	0.50
2:C:773:LEU:HD11	2:C:777:ILE:HD11	1.92	0.50
2:C:874:LEU:HB3	3:D:1029:ARG:CD	2.41	0.50
3:D:510:GLU:O	3:D:513:ILE:HG22	2.12	0.50
3:D:1466:VAL:C	3:D:1468:LEU:N	2.65	0.50
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.11	0.50
5:F:116:LEU:O	5:F:117:SER:C	2.50	0.50
5:F:132:ARG:O	5:F:133:ALA:C	2.49	0.50
5:F:358:LEU:CD2	5:F:370:LYS:HZ2	2.23	0.50
5:F:382:THR:HG23	5:F:397:ILE:HG21	1.92	0.50
1:K:220:GLU:O	1:K:223:THR:HB	2.11	0.50
1:L:13:VAL:HG22	1:L:14:ARG:N	2.26	0.50
1:L:83:LYS:NZ	1:L:168:ASP:HB2	2.26	0.50
2:M:355:VAL:C	2:M:358:ARG:HG3	2.32	0.50
2:M:550:LEU:HD23	2:M:905:ILE:HD11	1.92	0.50
2:M:897:LEU:HD21	2:M:920:GLN:HB3	1.92	0.50
2:M:943:VAL:O	2:M:944:LEU:C	2.49	0.50
2:M:998:TYR:CE2	2:M:1000:MET:HA	2.47	0.50
3:N:283:PHE:O	3:N:284:LEU:HD23	2.11	0.50
3:N:437:VAL:HG12	3:N:438:ASP:O	2.10	0.50
3:N:560:GLN:HG3	5:P:184:ARG:NH2	2.27	0.50
3:N:820:GLU:HA	3:N:825:ALA:H	1.76	0.50
3:N:1341:PRO:O	3:N:1345:GLU:HG3	2.11	0.50
3:N:1404:ASN:HB3	3:N:1409:ALA:HB3	1.92	0.50
3:N:1465:ASN:HD22	3:N:1472:ILE:HA	1.76	0.50
1:A:23:PHE:N	1:A:23:PHE:CD1	2.79	0.50
1:A:41:ARG:HG2	1:A:45:LEU:HD11	1.93	0.50
2:C:3:ILE:CD1	2:C:5:ARG:HE	2.25	0.50
2:C:233:GLU:HB2	2:C:237:ARG:CZ	2.41	0.50
2:C:1008:ARG:NH2	2:C:1012:PRO:O	2.44	0.50
2:C:1031:ARG:CB	3:D:622:ARG:HH12	2.25	0.50
3:D:70:GLY:HA2	3:D:80:VAL:HG23	1.92	0.50
3:D:256:GLU:HA	3:D:272:LEU:HD13	1.92	0.50
3:D:355:VAL:HG13	3:D:359:ALA:HB3	1.92	0.50
3:D:1101:VAL:HA	3:D:1428:ALA:HB2	1.92	0.50
3:D:1103:HIS:CG	3:D:1104:GLU:N	2.79	0.50
3:D:1286:THR:C	3:D:1288:GLU:H	2.13	0.50
3:D:1291:SER:HA	3:D:1305:LEU:CD2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.14	0.50
2:M:261:ILE:HG22	2:M:262:ALA:H	1.75	0.50
2:M:398:THR:N	2:M:633:GLN:HG3	2.27	0.50
2:M:483:VAL:HG22	2:M:484:VAL:N	2.26	0.50
2:M:486:MET:HG3	2:M:490:GLU:HB2	1.91	0.50
2:M:605:LYS:O	2:M:606:VAL:HG13	2.11	0.50
2:M:606:VAL:CG1	2:M:611:ILE:HG23	2.39	0.50
2:M:726:ILE:C	2:M:728:HIS:N	2.65	0.50
2:M:1110:ASP:OD1	2:M:1113:GLU:N	2.44	0.50
3:N:141:ILE:CD1	3:N:450:TYR:H	2.23	0.50
3:N:261:LEU:HD21	3:N:290:PRO:HB2	1.94	0.50
3:N:298:VAL:O	3:N:298:VAL:HG12	2.11	0.50
3:N:432:TYR:N	3:N:432:TYR:CD1	2.79	0.50
3:N:462:GLN:O	3:N:466:LYS:HG3	2.11	0.50
3:N:928:ALA:O	3:N:929:ARG:C	2.50	0.50
3:N:1196:THR:HB	3:N:1199:GLY:C	2.32	0.50
3:N:1404:ASN:OD1	3:N:1409:ALA:HB2	2.11	0.50
3:N:1409:ALA:C	3:N:1411:GLY:N	2.64	0.50
3:N:1476:THR:HB	4:O:21:VAL:CG2	2.40	0.50
3:N:1483:PHE:CD1	3:N:1483:PHE:N	2.78	0.50
5:P:101:GLU:HA	5:P:104:ARG:HH12	1.72	0.50
5:P:119:ILE:O	5:P:119:ILE:HG22	2.10	0.50
5:P:282:LEU:O	5:P:284:ARG:N	2.41	0.50
5:P:412:GLU:C	5:P:414:ARG:N	2.63	0.50
1:A:18:ARG:NE	1:A:88:ARG:NH2	2.59	0.50
2:C:23:VAL:CA	2:C:121:MET:HE1	2.37	0.50
2:C:838:LYS:HE3	2:C:997:LEU:CB	2.41	0.50
3:D:33:ASN:O	3:D:37:LEU:HA	2.12	0.50
3:D:113:GLY:HA3	3:D:124:GLU:CD	2.31	0.50
3:D:225:LEU:CD1	3:D:242:LEU:HD11	2.37	0.50
3:D:807:ALA:N	3:D:809:PRO:HD2	2.26	0.50
3:D:993:LEU:O	3:D:994:GLN:C	2.50	0.50
3:D:1103:HIS:HA	3:D:1223:ILE:CD1	2.41	0.50
3:D:1269:LYS:H	3:D:1269:LYS:CD	2.25	0.50
3:D:1294:VAL:C	3:D:1295:GLU:HG3	2.32	0.50
3:D:1341:PRO:O	3:D:1344:VAL:N	2.44	0.50
3:D:1424:VAL:CG2	3:D:1425:THR:N	2.75	0.50
4:E:75:PHE:C	4:E:79:LEU:HD11	2.31	0.50
5:F:81:VAL:HG23	5:F:82:ARG:HG3	1.93	0.50
5:F:343:ASP:O	5:F:344:ALA:C	2.50	0.50
5:F:397:ILE:O	5:F:398:ARG:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:LEU:HB3	1:L:115:LEU:HD22	1.92	0.50
1:L:151:VAL:HG21	1:L:171:PHE:HE1	1.76	0.50
2:M:100:LEU:HD23	2:M:368:THR:CG2	2.39	0.50
2:M:157:ARG:HG3	2:M:158:TYR:H	1.75	0.50
2:M:224:GLU:CB	2:M:227:PHE:HB2	2.42	0.50
2:M:470:PRO:HG3	2:M:485:TYR:CE2	2.45	0.50
2:M:654:LEU:HD12	2:M:655:LEU:N	2.22	0.50
2:M:685:GLU:O	2:M:686:ASP:HB2	2.10	0.50
2:M:728:HIS:NE2	2:M:730:SER:HB3	2.26	0.50
2:M:781:LYS:HE2	2:M:781:LYS:CA	2.35	0.50
2:M:890:LEU:O	2:M:893:ALA:HB3	2.12	0.50
2:M:1055:LEU:CD1	2:M:1079:PRO:HG3	2.40	0.50
3:N:264:LEU:HB2	3:N:267:GLY:CA	2.41	0.50
3:N:455:ARG:CB	3:N:460:ALA:HB2	2.41	0.50
3:N:536:ALA:HA	5:P:315:VAL:O	2.11	0.50
3:N:655:PRO:O	3:N:658:LEU:HB2	2.11	0.50
3:N:656:PHE:H	3:N:656:PHE:HD1	1.56	0.50
3:N:812:ALA:HA	3:N:816:HIS:H	1.77	0.50
3:N:986:ARG:HD3	3:N:989:TYR:HD2	1.76	0.50
3:N:1099:VAL:O	3:N:1103:HIS:HB3	2.12	0.50
1:A:56:VAL:HG13	1:A:141:GLU:O	2.10	0.50
2:C:328:LEU:HD11	2:C:434:HIS:HA	1.93	0.50
2:C:437:ARG:HA	2:C:459:ALA:HB2	1.94	0.50
2:C:882:LEU:HD12	3:D:1061:PHE:HB3	1.94	0.50
2:C:928:LYS:O	2:C:931:GLY:N	2.43	0.50
2:C:1052:MET:SD	3:D:623:VAL:HG21	2.52	0.50
3:D:356:PRO:O	3:D:385:VAL:HG11	2.12	0.50
3:D:925:GLU:OE2	4:E:6:ILE:HG22	2.11	0.50
3:D:968:ASP:O	3:D:971:LEU:HB2	2.12	0.50
3:D:1335:LEU:HD21	3:D:1344:VAL:HA	1.93	0.50
4:E:40:LEU:HD21	4:E:44:GLU:HB2	1.94	0.50
5:F:403:LYS:O	5:F:407:LYS:HB2	2.10	0.50
1:K:53:VAL:HG21	1:K:82:LEU:HB3	1.94	0.50
1:K:100:LEU:HD13	1:K:115:LEU:HD12	1.93	0.50
1:L:112:ARG:HH21	1:L:126:ASP:CG	2.14	0.50
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.46	0.50
2:M:138:SER:O	2:M:410:ILE:HA	2.12	0.50
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.93	0.50
2:M:817:PRO:HB3	5:P:309:LYS:HE2	1.93	0.50
2:M:1007:ALA:HB1	3:N:648:MET:HG3	1.92	0.50
3:N:217:LYS:CD	3:N:262:LYS:NZ	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:269:PHE:HD1	3:N:283:PHE:HB2	1.77	0.50
3:N:676:MET:O	3:N:676:MET:SD	2.70	0.50
3:N:785:ILE:HG12	3:N:939:PHE:HE2	1.75	0.50
3:N:965:GLU:CD	3:N:965:GLU:C	2.70	0.50
3:N:995:LEU:O	3:N:998:GLU:HB3	2.11	0.50
3:N:1305:LEU:N	3:N:1305:LEU:CD2	2.74	0.50
3:N:1394:VAL:O	3:N:1398:TRP:NE1	2.44	0.50
5:P:155:THR:O	5:P:159:ILE:HG12	2.11	0.50
5:P:273:ARG:O	5:P:277:GLN:HG3	2.12	0.50
1:A:49:PRO:HA	1:A:147:GLY:O	2.12	0.50
1:B:38:ASN:O	1:B:41:ARG:HB3	2.12	0.50
2:C:47:ALA:O	2:C:50:GLU:HG2	2.11	0.50
2:C:94:LEU:HB3	2:C:116:GLY:O	2.11	0.50
2:C:384:GLU:OE2	2:C:388:ARG:NH2	2.42	0.50
2:C:772:ARG:HD3	5:F:373:LYS:CD	2.41	0.50
2:C:971:LYS:HA	2:C:988:VAL:HA	1.93	0.50
3:D:90:MET:HE3	3:D:520:LEU:HA	1.93	0.50
3:D:121:THR:O	3:D:122:GLU:C	2.50	0.50
3:D:266:GLU:HB3	3:D:286:VAL:CG2	2.42	0.50
3:D:370:ALA:N	3:D:376:GLU:OE2	2.44	0.50
3:D:411:THR:O	3:D:411:THR:HG23	2.12	0.50
3:D:564:GLU:C	3:D:567:ILE:HB	2.31	0.50
3:D:770:LEU:HD11	3:D:919:PHE:CD1	2.47	0.50
3:D:829:VAL:N	3:D:835:SER:OG	2.38	0.50
3:D:1068:LEU:HG	3:D:1072:ILE:HD11	1.94	0.50
3:D:1079:LYS:HA	3:D:1082:ALA:HB3	1.93	0.50
3:D:1375:MET:HB2	3:D:1376:MET:HE3	1.92	0.50
5:F:98:GLU:O	5:F:99:GLU:C	2.50	0.50
5:F:203:THR:HG22	5:F:204:GLY:N	2.26	0.50
5:F:287:THR:HG23	5:F:290:GLU:OE1	2.12	0.50
1:L:5:LYS:O	1:L:7:LYS:N	2.45	0.50
1:L:52:ALA:HB1	1:L:170:VAL:N	2.26	0.50
2:M:172:ILE:HG22	2:M:173:ASP:H	1.77	0.50
2:M:227:PHE:CD1	2:M:227:PHE:N	2.79	0.50
2:M:233:GLU:CD	2:M:234:ALA:H	2.15	0.50
2:M:261:ILE:C	2:M:288:ARG:NH2	2.65	0.50
2:M:303:PHE:O	2:M:304:LEU:C	2.49	0.50
2:M:984:GLU:HG3	3:N:944:THR:O	2.12	0.50
2:M:1007:ALA:HA	3:N:627:GLY:CA	2.41	0.50
3:N:36:THR:HG22	3:N:38:LYS:HE2	1.93	0.50
3:N:41:ARG:HH11	3:N:41:ARG:HG3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:133:ILE:HD13	3:N:456:MET:CE	2.41	0.50
3:N:336:PHE:C	3:N:337:LEU:HD23	2.31	0.50
3:N:412:GLY:N	3:N:435:VAL:O	2.40	0.50
3:N:1276:GLU:O	3:N:1277:ILE:HD13	2.12	0.50
3:N:1488:ASP:OD1	3:N:1491:THR:CB	2.59	0.50
5:P:109:GLY:O	5:P:112:ALA:HB3	2.11	0.50
5:P:288:TYR:HA	5:P:291:ILE:HG23	1.92	0.50
5:P:356:LYS:HD3	5:P:417:LYS:HZ1	1.76	0.50
5:P:379:ARG:HH11	5:P:379:ARG:CB	2.24	0.50
1:A:36:LEU:O	1:A:37:GLY:C	2.49	0.50
2:C:300:ASP:CG	2:C:302:VAL:HB	2.31	0.50
2:C:394:PHE:HB3	2:C:632:ASN:ND2	2.27	0.50
2:C:499:ALA:HA	2:C:532:MET:HE3	1.94	0.50
2:C:695:LEU:CD2	2:C:832:LYS:HE2	2.42	0.50
2:C:718:GLY:O	2:C:761:PHE:HE1	1.95	0.50
2:C:722:ILE:HA	2:C:757:GLY:O	2.11	0.50
2:C:807:ARG:CB	2:C:807:ARG:NH1	2.75	0.50
2:C:987:ILE:CD1	3:D:948:THR:HG23	2.41	0.50
3:D:135:LEU:CD1	3:D:148:GLU:HB2	2.41	0.50
3:D:247:GLU:HA	3:D:308:LYS:NZ	2.25	0.50
3:D:359:ALA:N	3:D:385:VAL:HB	2.27	0.50
3:D:407:VAL:CG2	3:D:408:GLU:H	2.23	0.50
3:D:422:ALA:H	3:D:427:VAL:HB	1.76	0.50
3:D:434:ARG:NE	3:D:449:SER:O	2.45	0.50
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.94	0.50
3:D:676:MET:SD	3:D:676:MET:O	2.70	0.50
3:D:711:LEU:C	3:D:713:ILE:H	2.13	0.50
3:D:818:ARG:O	3:D:822:ALA:N	2.39	0.50
3:D:1494:ALA:O	3:D:1497:GLU:HG2	2.11	0.50
4:E:10:PHE:C	4:E:12:MET:H	2.15	0.50
5:F:231:ARG:HB3	5:F:233:PHE:CE2	2.47	0.50
1:K:110:LYS:N	1:K:113:ASP:OD2	2.44	0.50
1:L:68:ILE:HB	1:L:71:VAL:HB	1.94	0.50
2:M:59:LYS:HD2	2:M:59:LYS:H	1.74	0.50
2:M:139:GLN:C	2:M:333:ILE:HD12	2.32	0.50
2:M:498:GLN:OE1	3:N:1068:LEU:HB2	2.12	0.50
2:M:602:GLU:CG	2:M:646:GLY:HA2	2.41	0.50
2:M:691:SER:OG	2:M:693:GLU:HB3	2.11	0.50
2:M:768:THR:HG22	2:M:770:GLU:HG2	1.93	0.50
2:M:946:ARG:HH11	2:M:984:GLU:HB2	1.77	0.50
2:M:1014:SER:OG	2:M:1017:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1086:ARG:O	2:M:1087:VAL:C	2.48	0.50
2:M:1102:LEU:O	3:N:6:ARG:N	2.43	0.50
3:N:127:LEU:CD2	3:N:128:TYR:N	2.65	0.50
3:N:458:ALA:HB2	3:N:513:ILE:HD11	1.90	0.50
3:N:960:LYS:HE3	3:N:964:LEU:HD11	1.94	0.50
3:N:1038:LEU:HD23	3:N:1061:PHE:HB2	1.94	0.50
1:A:215:VAL:O	1:A:216:GLU:C	2.50	0.50
2:C:55:GLU:HG2	2:C:57:GLU:N	2.26	0.50
2:C:274:ARG:CZ	2:C:285:LEU:CD2	2.90	0.50
2:C:348:LEU:N	2:C:378:LEU:HD13	2.27	0.50
2:C:415:PRO:C	2:C:417:GLY:H	2.16	0.50
2:C:813:VAL:HG12	2:C:815:LEU:HG	1.94	0.50
3:D:140:ALA:N	3:D:450:TYR:HE2	2.00	0.50
3:D:525:ARG:HG2	3:D:525:ARG:HH11	1.77	0.50
3:D:911:LEU:O	3:D:912:LYS:C	2.50	0.50
3:D:1011:PHE:HE1	3:D:1018:ASN:CG	2.15	0.50
1:K:1:MET:H1	1:K:6:LEU:CD1	2.21	0.50
1:K:90:LEU:HB2	1:K:119:ASP:HB3	1.94	0.50
1:L:79:ILE:CA	1:L:82:LEU:HG	2.40	0.50
2:M:193:LEU:HD21	2:M:307:LEU:HD22	1.92	0.50
2:M:509:ALA:O	2:M:510:ALA:HB2	2.10	0.50
2:M:631:SER:C	2:M:634:GLY:H	2.14	0.50
2:M:690:ILE:N	2:M:851:LYS:O	2.45	0.50
2:M:861:LEU:CB	2:M:862:PRO:HD2	2.40	0.50
2:M:911:GLU:HB2	2:M:912:PRO:HD3	1.92	0.50
2:M:1032:PHE:CZ	2:M:1036:GLU:HB3	2.47	0.50
3:N:137:PRO:CG	3:N:138:LYS:N	2.74	0.50
3:N:324:ALA:CB	3:N:331:VAL:HG11	2.42	0.50
3:N:411:THR:HA	3:N:435:VAL:O	2.12	0.50
3:N:477:LEU:O	3:N:481:MET:N	2.44	0.50
3:N:530:VAL:HG23	3:N:531:ASP:N	2.24	0.50
3:N:572:ARG:HH12	5:P:84:TYR:CA	2.24	0.50
3:N:921:ARG:C	3:N:922:LEU:HD23	2.32	0.50
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.41	0.50
3:N:1208:ASP:O	3:N:1209:LEU:CB	2.60	0.50
5:P:79:ASP:OD1	5:P:79:ASP:O	2.29	0.50
5:P:151:LEU:HB2	5:P:155:THR:CB	2.42	0.50
5:P:181:GLU:O	5:P:184:ARG:HB3	2.11	0.50
5:P:269:ASN:O	5:P:270:LYS:C	2.50	0.50
5:P:355:GLU:HA	5:P:358:LEU:HB3	1.93	0.50
1:A:15:THR:CB	1:A:21:GLY:HA3	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:ASN:O	1:A:39:PRO:C	2.49	0.50
1:A:98:THR:CG2	1:A:141:GLU:HB3	2.42	0.50
1:B:182:GLU:HG3	1:B:194:LYS:HD3	1.94	0.50
2:C:102:HIS:O	2:C:105:THR:N	2.44	0.50
2:C:141:HIS:NE2	2:C:332:ARG:HB3	2.27	0.50
2:C:230:ARG:HG2	2:C:230:ARG:O	2.11	0.50
2:C:389:SER:HB3	2:C:392:SER:HB3	1.94	0.50
2:C:601:GLY:HA3	2:C:614:ARG:O	2.12	0.50
2:C:689:VAL:O	2:C:690:ILE:HD13	2.12	0.50
2:C:910:LYS:HE3	2:C:912:PRO:HG2	1.94	0.50
3:D:192:ALA:O	3:D:193:PRO:C	2.48	0.50
3:D:238:PRO:CD	3:D:318:ARG:HA	2.42	0.50
3:D:291:LEU:HB3	3:D:294:HIS:HB2	1.94	0.50
3:D:397:LYS:HE3	3:D:448:GLU:CD	2.32	0.50
3:D:402:PRO:HA	3:D:443:VAL:HA	1.94	0.50
3:D:500:ARG:O	3:D:504:ASP:N	2.33	0.50
3:D:674:ARG:HG3	3:D:674:ARG:NH1	2.27	0.50
3:D:710:ARG:C	3:D:712:GLY:H	2.15	0.50
3:D:757:ALA:O	3:D:758:GLU:C	2.49	0.50
3:D:1031:ASN:HB2	3:D:1032:PRO:CD	2.40	0.50
3:D:1360:GLY:O	3:D:1362:LYS:HE2	2.12	0.50
3:D:1363:LEU:HD23	3:D:1364:HIS:N	2.27	0.50
5:F:372:ARG:CG	5:F:378:GLY:O	2.55	0.50
1:K:64:GLU:CA	1:K:165:ILE:HD13	2.42	0.50
2:M:41:ASN:O	2:M:42:VAL:C	2.50	0.50
2:M:41:ASN:O	2:M:46:ALA:CB	2.60	0.50
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.93	0.50
2:M:405:ARG:HH22	2:M:409:ARG:CZ	2.25	0.50
2:M:455:LEU:HD12	2:M:456:ALA:H	1.77	0.50
2:M:807:ARG:CZ	2:M:807:ARG:CB	2.90	0.50
2:M:833:LEU:CD1	2:M:837:ASP:HB2	2.42	0.50
2:M:948:GLU:CB	2:M:953:VAL:HG23	2.42	0.50
2:M:1004:LYS:HB3	2:M:1006:HIS:CE1	2.47	0.50
2:M:1036:GLU:H	2:M:1036:GLU:CD	2.14	0.50
2:M:1042:ALA:HB3	3:N:710:ARG:HB2	1.94	0.50
2:M:1048:THR:HA	3:N:755:ALA:HB1	1.94	0.50
3:N:36:THR:CB	3:N:38:LYS:HG2	2.24	0.50
3:N:60:CYS:CB	3:N:62:LYS:HE2	2.36	0.50
3:N:160:GLU:O	3:N:164:GLY:O	2.29	0.50
3:N:174:GLY:HA2	3:N:389:GLU:CD	2.32	0.50
3:N:586:ARG:O	3:N:587:ARG:CG	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:592:THR:CG2	3:N:598:ARG:HH12	2.24	0.50
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.47	0.50
3:N:1229:ILE:C	3:N:1232:PRO:HD2	2.32	0.50
3:N:1269:LYS:C	3:N:1271:LYS:N	2.66	0.50
1:B:99:LEU:HB3	1:B:114:PHE:CD2	2.47	0.49
1:B:171:PHE:O	1:B:172:SER:C	2.50	0.49
2:C:65:VAL:HB	2:C:101:ILE:HB	1.94	0.49
2:C:312:ALA:O	2:C:318:PRO:HB2	2.12	0.49
2:C:504:GLU:OE2	2:C:507:ARG:HD3	2.12	0.49
2:C:721:ARG:O	2:C:758:ARG:HA	2.13	0.49
2:C:862:PRO:C	2:C:864:GLY:H	2.15	0.49
2:C:1015:LEU:CB	5:F:333:ILE:HG22	2.42	0.49
3:D:297:ILE:HG23	3:D:298:VAL:H	1.76	0.49
3:D:625:TYR:N	3:D:625:TYR:CD1	2.80	0.49
3:D:673:ALA:O	3:D:676:MET:HB3	2.11	0.49
3:D:932:ASP:O	3:D:935:LYS:HB3	2.11	0.49
3:D:965:GLU:C	3:D:965:GLU:CD	2.71	0.49
3:D:1460:ILE:HG13	3:D:1461:GLY:N	2.26	0.49
5:F:82:ARG:HG3	5:F:82:ARG:HH11	1.76	0.49
5:F:127:ILE:O	5:F:130:VAL:HB	2.11	0.49
5:F:282:LEU:C	5:F:284:ARG:H	2.15	0.49
5:F:320:PRO:HA	5:F:327:SER:O	2.12	0.49
2:M:101:ILE:CG2	2:M:102:HIS:N	2.67	0.49
2:M:170:PRO:HD2	2:M:263:ASP:O	2.12	0.49
2:M:430:VAL:HA	2:M:434:HIS:CD2	2.47	0.49
2:M:496:ILE:HA	2:M:531:PHE:O	2.12	0.49
2:M:606:VAL:HG12	2:M:611:ILE:CG2	2.39	0.49
2:M:689:VAL:HG22	2:M:870:ILE:HB	1.93	0.49
2:M:861:LEU:N	2:M:861:LEU:HD23	2.26	0.49
2:M:1008:ARG:O	3:N:652:LEU:HD23	2.12	0.49
3:N:29:PRO:HG3	3:N:548:ILE:CB	2.41	0.49
3:N:393:ILE:HG22	3:N:394:LEU:N	2.27	0.49
3:N:443:VAL:CG1	3:N:444:VAL:N	2.75	0.49
3:N:1155:VAL:O	3:N:1158:VAL:HG12	2.12	0.49
3:N:1495:ILE:CG2	3:N:1496:GLU:H	2.22	0.49
5:P:146:GLY:N	5:P:149:GLU:HB2	2.27	0.49
5:P:194:LEU:O	5:P:194:LEU:HD13	2.12	0.49
1:A:151:VAL:HG13	1:A:155:LYS:HG2	1.94	0.49
1:A:217:ILE:HG22	1:A:221:HIS:CD2	2.47	0.49
1:B:58:ILE:HD13	1:B:58:ILE:C	2.32	0.49
1:B:151:VAL:HG21	1:B:171:PHE:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:41:ASN:OD1	2:C:46:ALA:HA	2.13	0.49
2:C:273:GLY:HA2	2:C:276:LYS:HG3	1.94	0.49
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.12	0.49
2:C:579:VAL:HA	2:C:901:TYR:O	2.12	0.49
2:C:599:GLU:HB3	2:C:615:TYR:CE2	2.47	0.49
2:C:731:GLU:O	2:C:734:LEU:N	2.42	0.49
3:D:171:LEU:CD1	3:D:390:PRO:HB2	2.41	0.49
3:D:257:GLY:CA	3:D:274:ARG:HA	2.28	0.49
3:D:560:GLN:HA	3:D:560:GLN:OE1	2.11	0.49
3:D:598:ARG:HG2	3:D:598:ARG:HH11	1.76	0.49
3:D:657:LEU:O	3:D:658:LEU:C	2.50	0.49
3:D:1335:LEU:HD12	3:D:1335:LEU:O	2.12	0.49
4:E:49:GLN:HG3	4:E:54:LEU:HD23	1.93	0.49
4:E:67:GLU:O	4:E:70:THR:O	2.30	0.49
5:F:145:PRO:HB3	5:F:152:ASP:OD2	2.11	0.49
5:F:288:TYR:HB3	5:F:301:ALA:CB	2.42	0.49
1:K:11:PHE:CE2	1:L:225:PHE:O	2.65	0.49
1:K:29:GLU:O	1:K:30:ARG:C	2.51	0.49
1:K:44:LEU:CD2	1:K:214:ALA:HB2	2.42	0.49
2:M:211:LEU:C	2:M:213:ALA:N	2.64	0.49
2:M:313:LEU:C	2:M:315:ALA:N	2.65	0.49
2:M:754:ILE:HG12	2:M:791:ARG:HD2	1.93	0.49
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.12	0.49
3:N:47:GLU:CB	3:N:51:GLY:O	2.60	0.49
3:N:414:ARG:O	3:N:415:VAL:HG13	2.11	0.49
3:N:671:LYS:O	3:N:674:ARG:HB2	2.11	0.49
3:N:703:ASN:HD22	3:N:704:ARG:N	2.11	0.49
3:N:1117:TYR:HA	3:N:1193:THR:HG21	1.94	0.49
3:N:1130:ARG:NH2	3:N:1323:GLN:NE2	2.57	0.49
3:N:1229:ILE:O	3:N:1232:PRO:HD2	2.11	0.49
3:N:1311:LEU:HD21	3:N:1313:VAL:O	2.12	0.49
3:N:1364:HIS:ND1	3:N:1366:LYS:HG3	2.27	0.49
4:O:46:PRO:O	4:O:57:ASP:N	2.38	0.49
5:P:349:LEU:HA	5:P:352:GLU:CD	2.33	0.49
5:P:402:ASN:N	5:P:402:ASN:HD22	2.09	0.49
1:B:6:LEU:C	1:B:8:ALA:H	2.15	0.49
2:C:115:LEU:CD1	2:C:373:VAL:CG1	2.73	0.49
2:C:157:ARG:CG	2:C:158:TYR:H	2.13	0.49
2:C:332:ARG:HG2	2:C:333:ILE:N	2.27	0.49
2:C:543:ASN:HA	2:C:546:LEU:CD1	2.41	0.49
2:C:757:GLY:HA2	2:C:789:SER:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1039:ALA:HA	3:D:1227:GLN:NE2	2.27	0.49
3:D:59:ALA:HB3	3:D:76:CYS:CB	2.42	0.49
3:D:155:ASP:O	3:D:158:TYR:N	2.45	0.49
3:D:227:LEU:HG	3:D:326:GLU:OE1	2.12	0.49
3:D:243:ALA:HB3	3:D:311:LEU:CD1	2.34	0.49
3:D:248:PRO:HB3	3:D:308:LYS:NZ	2.26	0.49
3:D:605:ASP:OD1	3:D:605:ASP:N	2.45	0.49
3:D:605:ASP:O	3:D:609:GLY:HA2	2.12	0.49
3:D:660:LYS:O	3:D:663:GLU:HB2	2.12	0.49
3:D:853:VAL:O	3:D:856:GLY:N	2.41	0.49
3:D:932:ASP:HA	3:D:935:LYS:HE2	1.94	0.49
3:D:1084:THR:HG23	3:D:1085:ALA:H	1.76	0.49
5:F:225:GLU:OE1	5:F:226:LYS:NZ	2.44	0.49
5:F:271:LEU:CD1	5:F:307:THR:HG21	2.40	0.49
1:K:199:ILE:HG21	1:K:207:PRO:HA	1.94	0.49
2:M:18:LEU:C	2:M:20:GLU:N	2.65	0.49
2:M:193:LEU:O	2:M:195:LEU:N	2.45	0.49
2:M:317:VAL:HG13	2:M:320:HIS:CE1	2.47	0.49
2:M:396:ASP:O	2:M:403:SER:CA	2.60	0.49
2:M:486:MET:HG2	2:M:487:THR:O	2.11	0.49
2:M:504:GLU:OE2	2:M:507:ARG:HD3	2.12	0.49
2:M:591:SER:O	2:M:592:LEU:HB2	2.12	0.49
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.93	0.49
2:M:676:ILE:CG1	2:M:873:PRO:HG3	2.40	0.49
2:M:728:HIS:CG	2:M:729:LEU:N	2.80	0.49
2:M:815:LEU:HD21	2:M:822:VAL:HG22	1.92	0.49
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.12	0.49
3:N:42:ASP:OD1	3:N:48:ARG:NH2	2.45	0.49
3:N:302:GLN:N	3:N:303:PRO:CD	2.75	0.49
3:N:483:HIS:CB	3:N:484:PRO:CD	2.79	0.49
3:N:712:GLY:O	3:N:713:ILE:HG13	2.12	0.49
3:N:758:GLU:HG2	4:O:20:THR:HG21	1.94	0.49
3:N:1117:TYR:HD1	3:N:1118:ILE:O	1.95	0.49
3:N:1418:LYS:O	3:N:1420:LEU:HD13	2.11	0.49
1:B:158:ILE:C	1:B:159:LYS:HG3	2.33	0.49
1:B:219:ARG:HG2	1:B:219:ARG:NH1	2.23	0.49
2:C:178:PRO:HB2	2:C:220:GLY:HA3	1.94	0.49
2:C:594:ALA:HB1	2:C:654:LEU:HD11	1.94	0.49
2:C:617:ASP:OD2	2:C:619:ARG:HG3	2.13	0.49
3:D:358:GLY:HA2	3:D:385:VAL:C	2.32	0.49
3:D:500:ARG:O	3:D:504:ASP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.93	0.49
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.11	0.49
3:D:1066:THR:O	3:D:1070:TYR:N	2.39	0.49
3:D:1293:PHE:HD1	3:D:1302:GLU:HA	1.75	0.49
3:D:1379:VAL:O	3:D:1393:GLN:N	2.44	0.49
3:D:1464:GLU:HG2	3:D:1465:ASN:H	1.77	0.49
5:F:112:ALA:O	5:F:116:LEU:HG	2.12	0.49
5:F:135:ILE:HD12	5:F:181:GLU:HB3	1.95	0.49
1:K:89:PHE:CB	1:K:146:ARG:HH21	2.23	0.49
1:K:173:PRO:HG3	1:K:205:VAL:HG21	1.92	0.49
1:L:134:GLU:C	1:L:136:GLY:H	2.16	0.49
2:M:146:VAL:HG22	2:M:162:ILE:CG1	2.36	0.49
2:M:268:ASP:O	2:M:288:ARG:HD2	2.12	0.49
2:M:355:VAL:HA	2:M:358:ARG:CG	2.41	0.49
2:M:382:ILE:O	2:M:385:PHE:HB3	2.12	0.49
2:M:426:ASP:O	2:M:429:ASP:HB2	2.12	0.49
2:M:543:ASN:HA	2:M:546:LEU:CD1	2.39	0.49
2:M:569:VAL:HG23	2:M:570:PRO:HD2	1.95	0.49
2:M:730:SER:OG	2:M:731:GLU:N	2.45	0.49
2:M:742:VAL:HG12	2:M:743:VAL:N	2.27	0.49
2:M:800:VAL:HG12	2:M:801:VAL:H	1.78	0.49
2:M:894:GLY:HA2	2:M:901:TYR:OH	2.11	0.49
2:M:1061:GLU:HA	2:M:1064:ASN:HD22	1.78	0.49
3:N:169:TYR:O	3:N:392:SER:HB3	2.13	0.49
3:N:210:ARG:HB3	3:N:388:HIS:HB2	1.94	0.49
3:N:413:ASP:O	3:N:435:VAL:N	2.45	0.49
3:N:1165:TYR:HE2	3:N:1206:GLY:HA2	1.77	0.49
3:N:1166:LEU:HA	3:N:1170:ASP:OD2	2.12	0.49
3:N:1306:PRO:HB2	3:N:1308:GLU:HG3	1.93	0.49
5:P:135:ILE:C	5:P:137:GLY:H	2.15	0.49
5:P:152:ASP:HA	5:P:156:VAL:HG11	1.94	0.49
5:P:156:VAL:HG23	5:P:157:GLU:H	1.77	0.49
5:P:367:MET:CB	5:P:370:LYS:HE2	2.38	0.49
1:A:103:ALA:O	1:A:104:GLU:HB2	2.11	0.49
1:A:170:VAL:HG23	1:A:170:VAL:O	2.13	0.49
1:A:222:LEU:HA	1:A:225:PHE:CE1	2.47	0.49
1:B:5:LYS:HZ3	1:B:189:ARG:CZ	2.25	0.49
1:B:64:GLU:O	1:B:76:VAL:HG23	2.13	0.49
1:B:182:GLU:CG	1:B:194:LYS:HD3	2.42	0.49
2:C:36:PRO:HG2	2:C:38:LYS:HB3	1.94	0.49
2:C:176:VAL:HG12	2:C:182:VAL:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:214:TYR:OH	2:C:308:ARG:HB2	2.12	0.49
2:C:630:ARG:HD2	2:C:705:ILE:HB	1.93	0.49
2:C:896:PHE:C	2:C:898:GLY:N	2.66	0.49
3:D:15:PRO:HA	3:D:18:ILE:HD12	1.94	0.49
3:D:28:LYS:HG2	3:D:42:ASP:O	2.13	0.49
3:D:32:ILE:CG2	3:D:37:LEU:HA	2.42	0.49
3:D:172:PRO:HB2	3:D:175:VAL:HG23	1.93	0.49
3:D:206:ARG:HB3	3:D:207:PHE:CD1	2.48	0.49
3:D:258:VAL:HG23	3:D:273:ARG:O	2.13	0.49
3:D:558:LEU:C	3:D:560:GLN:N	2.64	0.49
3:D:678:GLU:HG3	3:D:679:ARG:CG	2.38	0.49
3:D:775:GLY:HA2	3:D:1209:LEU:O	2.12	0.49
5:F:209:PHE:O	5:F:212:LEU:HB2	2.13	0.49
1:K:9:PRO:HA	1:K:26:GLU:O	2.12	0.49
2:M:63:GLY:H	2:M:103:LYS:CB	2.26	0.49
2:M:297:GLU:CD	2:M:297:GLU:H	2.15	0.49
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.27	0.49
2:M:512:ARG:HD2	2:M:523:ILE:CG1	2.39	0.49
2:M:541:SER:O	2:M:544:THR:HB	2.13	0.49
2:M:926:PHE:O	2:M:927:GLY:C	2.50	0.49
2:M:1050:GLN:O	2:M:1053:LEU:N	2.40	0.49
3:N:188:GLY:H	3:N:197:SER:C	2.15	0.49
3:N:323:GLU:CB	3:N:334:THR:HB	2.39	0.49
3:N:1155:VAL:O	3:N:1158:VAL:CG1	2.60	0.49
3:N:1167:SER:N	3:N:1170:ASP:OD2	2.46	0.49
3:N:1350:GLU:O	3:N:1354:LYS:HG3	2.12	0.49
3:N:1487:VAL:O	4:O:74:VAL:HG22	2.12	0.49
5:P:111:GLU:CG	5:P:114:LYS:HZ2	2.23	0.49
5:P:156:VAL:O	5:P:159:ILE:HB	2.12	0.49
5:P:367:MET:HE1	5:P:371:LEU:HD21	1.94	0.49
5:P:370:LYS:HA	5:P:374:GLY:CA	2.42	0.49
1:A:111:ALA:C	1:A:113:ASP:N	2.65	0.49
1:A:124:ASN:HB2	1:A:127:LEU:CB	2.43	0.49
1:A:150:TYR:HA	1:A:169:ALA:O	2.12	0.49
1:A:177:VAL:HG12	1:A:178:ALA:N	2.27	0.49
1:A:222:LEU:HD12	1:B:219:ARG:HA	1.94	0.49
2:C:73:LEU:HD12	2:C:73:LEU:O	2.11	0.49
2:C:96:ALA:HB3	2:C:113:VAL:HG23	1.95	0.49
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.48	0.49
3:D:254:GLU:CD	3:D:299:GLU:O	2.51	0.49
3:D:912:LYS:O	3:D:915:VAL:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1488:ASP:HA	4:E:73:LEU:HD13	1.94	0.49
5:F:118:GLU:C	5:F:120:THR:N	2.63	0.49
5:F:291:ILE:O	5:F:295:MET:N	2.33	0.49
5:F:408:LEU:O	5:F:411:HIS:N	2.42	0.49
1:K:122:ILE:CG2	1:K:123:MET:N	2.76	0.49
2:M:37:GLU:CG	2:M:71:TYR:HE2	2.23	0.49
2:M:63:GLY:O	2:M:102:HIS:HA	2.13	0.49
2:M:65:VAL:HG12	2:M:66:LEU:N	2.27	0.49
2:M:410:ILE:HD12	2:M:410:ILE:N	2.28	0.49
2:M:431:HIS:ND1	2:M:432:ARG:HG2	2.28	0.49
2:M:971:LYS:HZ1	3:N:950:GLY:HA3	1.78	0.49
2:M:1060:ILE:HG13	2:M:1083:GLU:HG3	1.94	0.49
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.95	0.49
3:N:789:LEU:HG	3:N:938:GLY:HA2	1.95	0.49
3:N:812:ALA:O	3:N:814:ALA:N	2.45	0.49
3:N:959:GLU:CD	3:N:959:GLU:N	2.65	0.49
3:N:1092:GLY:O	3:N:1093:TYR:C	2.50	0.49
3:N:1472:ILE:HD13	3:N:1473:PRO:HD3	1.93	0.49
5:P:107:GLU:OE1	5:P:230:LYS:HE3	2.11	0.49
5:P:151:LEU:HB2	5:P:155:THR:HB	1.94	0.49
5:P:216:GLY:CA	5:P:243:ILE:HG23	2.42	0.49
1:A:29:GLU:O	1:A:193:ASP:OD2	2.30	0.49
1:A:68:ILE:HG23	1:A:69:PRO:HD2	1.95	0.49
1:A:76:VAL:O	1:A:77:GLU:C	2.51	0.49
2:C:138:SER:O	2:C:410:ILE:HA	2.12	0.49
2:C:175:GLU:HG2	2:C:176:VAL:H	1.76	0.49
2:C:1102:LEU:HD11	3:D:9:ARG:HB2	1.95	0.49
3:D:33:ASN:O	3:D:37:LEU:N	2.46	0.49
3:D:509:PRO:HG2	3:D:510:GLU:OE2	2.13	0.49
3:D:814:ALA:O	3:D:818:ARG:HG3	2.11	0.49
3:D:1160:LEU:O	3:D:1161:GLU:C	2.50	0.49
3:D:1398:TRP:O	3:D:1402:ALA:HB3	2.12	0.49
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.48	0.49
3:D:1470:ARG:HG2	3:D:1471:LEU:N	2.28	0.49
4:E:55:PHE:N	4:E:55:PHE:CD1	2.81	0.49
5:F:300:ASP:CG	5:F:302:LYS:HE3	2.32	0.49
5:F:321:ILE:CG2	5:F:322:GLY:H	2.26	0.49
5:F:386:VAL:CG1	5:F:394:ARG:N	2.76	0.49
1:L:85:LEU:HD11	1:L:87:VAL:HG13	1.94	0.49
2:M:322:VAL:HG12	2:M:323:ASP:N	2.20	0.49
2:M:650:ARG:HE	2:M:650:ARG:CA	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:869:VAL:CG2	2:M:870:ILE:N	2.76	0.49
2:M:946:ARG:NH1	2:M:984:GLU:HB2	2.28	0.49
2:M:1114:GLY:C	2:M:1116:ALA:N	2.65	0.49
3:N:16:GLU:CD	3:N:16:GLU:N	2.61	0.49
3:N:18:ILE:HG21	3:N:518:PRO:HG3	1.95	0.49
3:N:135:LEU:HD23	3:N:135:LEU:H	1.75	0.49
3:N:154:THR:HG23	3:N:157:GLU:H	1.77	0.49
3:N:207:PHE:CB	3:N:391:ALA:HB3	2.41	0.49
3:N:1095:THR:O	3:N:1096:ARG:C	2.51	0.49
3:N:1112:CYS:N	3:N:1201:CYS:HB2	2.28	0.49
3:N:1447:LEU:O	3:N:1448:THR:C	2.49	0.49
5:P:132:ARG:CZ	5:P:184:ARG:HH12	2.25	0.49
5:P:206:GLY:O	5:P:207:LEU:HB2	2.11	0.49
5:P:288:TYR:CA	5:P:291:ILE:HG23	2.42	0.49
5:P:302:LYS:O	5:P:306:GLU:OE2	2.30	0.49
5:P:383:LEU:HD23	5:P:394:ARG:HD3	1.93	0.49
5:P:416:ARG:HD2	5:P:419:ARG:CG	2.40	0.49
1:A:63:HIS:HB2	2:C:799:ILE:HD11	1.93	0.49
1:B:240:LYS:N	1:B:240:LYS:HD2	2.28	0.49
2:C:428:ARG:NH2	2:C:451:LEU:HD11	2.28	0.49
2:C:630:ARG:HG3	2:C:631:SER:N	2.27	0.49
2:C:691:SER:HB2	2:C:868:ASP:HA	1.93	0.49
2:C:731:GLU:C	2:C:733:ALA:N	2.64	0.49
2:C:918:LEU:CD1	2:C:968:LEU:HA	2.42	0.49
3:D:16:GLU:N	3:D:16:GLU:OE1	2.46	0.49
3:D:68:PHE:HZ	5:F:376:ILE:HG12	1.77	0.49
3:D:248:PRO:CA	3:D:308:LYS:NZ	2.73	0.49
3:D:277:GLU:HG3	3:D:278:PRO:N	2.27	0.49
3:D:408:GLU:CD	3:D:421:LEU:HG	2.32	0.49
3:D:736:PHE:O	3:D:737:ASN:C	2.51	0.49
3:D:785:ILE:HG23	3:D:938:GLY:HA3	1.95	0.49
3:D:806:PHE:CZ	3:D:816:HIS:CE1	3.01	0.49
3:D:844:ALA:N	3:D:848:GLU:OE1	2.45	0.49
3:D:926:LYS:HE2	3:D:929:ARG:NH1	2.28	0.49
3:D:1078:ARG:O	3:D:1080:GLY:N	2.46	0.49
3:D:1207:TYR:HA	3:D:1213:ARG:O	2.11	0.49
3:D:1253:THR:HG22	3:D:1254:GLN:N	2.28	0.49
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.41	0.49
5:F:86:HIS:C	5:F:88:ILE:N	2.65	0.49
5:F:304:VAL:HG12	5:F:308:LEU:HD21	1.94	0.49
5:F:381:HIS:N	5:F:385:GLU:CD	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:393:THR:CG2	5:F:394:ARG:N	2.75	0.49
1:K:20:TYR:CG	1:K:21:GLY:N	2.81	0.49
1:K:151:VAL:O	1:K:169:ALA:N	2.43	0.49
1:L:37:GLY:O	1:L:38:ASN:C	2.51	0.49
2:M:65:VAL:O	2:M:100:LEU:CD1	2.60	0.49
2:M:1040:LEU:HD23	3:N:763:MET:HE1	1.94	0.49
3:N:14:SER:O	3:N:17:LYS:HB3	2.13	0.49
3:N:59:ALA:C	3:N:61:GLY:N	2.65	0.49
3:N:62:LYS:HE3	3:N:75:ARG:HH11	1.78	0.49
3:N:356:PRO:HB3	3:N:440:VAL:CG2	2.41	0.49
3:N:634:GLY:HA3	3:N:637:LEU:CD1	2.43	0.49
3:N:676:MET:C	3:N:677:LEU:HD23	2.33	0.49
3:N:696:HIS:CD2	4:O:48:MET:HG2	2.48	0.49
3:N:756:GLN:O	3:N:759:ALA:HB3	2.12	0.49
3:N:859:ASP:O	3:N:862:ASP:HB2	2.13	0.49
3:N:984:THR:HG22	3:N:987:GLU:CD	2.33	0.49
3:N:1107:VAL:HG21	3:N:1219:GLU:HB3	1.95	0.49
3:N:1161:GLU:OE2	3:N:1164:ARG:HB2	2.11	0.49
3:N:1311:LEU:HG	3:N:1312:LEU:N	2.28	0.49
3:N:1397:LYS:O	3:N:1398:TRP:CD1	2.66	0.49
3:N:1442:ASN:O	3:N:1446:VAL:HG23	2.12	0.49
1:A:36:LEU:C	1:A:39:PRO:HD2	2.33	0.49
1:A:152:PRO:O	1:A:155:LYS:HB3	2.13	0.49
1:B:32:PHE:O	1:B:33:GLY:C	2.50	0.49
2:C:32:ALA:O	2:C:35:PRO:HD2	2.13	0.49
2:C:92:ALA:C	2:C:117:HIS:HB3	2.32	0.49
2:C:267:TYR:CB	2:C:272:ALA:H	2.26	0.49
2:C:273:GLY:O	2:C:276:LYS:HB2	2.12	0.49
2:C:344:PHE:CE2	2:C:348:LEU:HD13	2.48	0.49
2:C:471:TYR:HB3	2:C:531:PHE:HD2	1.77	0.49
2:C:493:ARG:HB2	2:C:494:TYR:CD1	2.48	0.49
2:C:971:LYS:HZ1	3:D:950:GLY:HA3	1.76	0.49
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.40	0.49
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.43	0.49
3:D:584:ASN:OD1	3:D:590:PRO:CD	2.55	0.49
3:D:591:VAL:O	3:D:592:THR:C	2.50	0.49
3:D:806:PHE:HZ	3:D:816:HIS:CE1	2.30	0.49
3:D:811:GLU:HB3	3:D:815:ALA:CB	2.42	0.49
3:D:1020:LEU:O	3:D:1021:TYR:C	2.51	0.49
3:D:1137:ARG:O	3:D:1138:ALA:C	2.51	0.49
3:D:1291:SER:HA	3:D:1305:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:308:LEU:HD23	5:F:308:LEU:N	2.27	0.49
5:F:418:LEU:HD12	5:F:418:LEU:N	2.11	0.49
1:K:138:LEU:HD21	1:K:140:MET:CE	2.42	0.49
1:L:56:VAL:N	1:L:165:ILE:O	2.44	0.49
2:M:37:GLU:OE2	2:M:71:TYR:O	2.29	0.49
2:M:41:ASN:O	2:M:43:GLY:N	2.46	0.49
2:M:94:LEU:C	2:M:114:PHE:HA	2.33	0.49
2:M:237:ARG:O	2:M:240:THR:HB	2.12	0.49
2:M:254:VAL:HB	2:M:258:TYR:OH	2.12	0.49
2:M:589:ARG:HG2	2:M:596:TYR:OH	2.12	0.49
2:M:610:ARG:HE	2:M:612:VAL:HG23	1.77	0.49
2:M:874:LEU:HD13	3:N:783:ARG:HB3	1.94	0.49
2:M:1017:THR:HB	2:M:1019:GLN:NE2	2.28	0.49
3:N:130:SER:HB3	3:N:132:TYR:HE1	1.72	0.49
3:N:565:ILE:HG23	3:N:566:ILE:N	2.13	0.49
3:N:881:LEU:O	3:N:884:ARG:HB3	2.13	0.49
3:N:972:LEU:HD23	3:N:972:LEU:H	1.78	0.49
3:N:1406:ARG:CB	3:N:1412:LYS:HE2	2.40	0.49
3:N:1489:GLN:HA	3:N:1492:LEU:CG	2.43	0.49
3:N:1497:GLU:HB2	4:O:88:GLU:OE2	2.12	0.49
5:P:132:ARG:O	5:P:135:ILE:N	2.44	0.49
5:P:145:PRO:HG3	5:P:150:THR:O	2.12	0.49
5:P:296:GLY:C	5:P:299:TRP:HD1	2.17	0.49
5:P:350:LEU:C	5:P:352:GLU:N	2.65	0.49
1:A:208:LEU:O	1:A:209:GLU:C	2.51	0.49
1:A:220:GLU:O	1:A:223:THR:HB	2.12	0.49
1:B:73:GLU:CB	1:B:78:ILE:HD11	2.43	0.49
1:B:112:ARG:CZ	1:B:125:PRO:HB2	2.42	0.49
2:C:178:PRO:HA	2:C:181:VAL:O	2.13	0.49
2:C:269:LEU:HA	2:C:288:ARG:CB	2.42	0.49
2:C:726:ILE:HG13	2:C:728:HIS:HB3	1.94	0.49
3:D:127:LEU:CD1	3:D:134:VAL:HG22	2.43	0.49
3:D:234:GLU:O	3:D:236:TYR:N	2.41	0.49
3:D:442:ASN:HD22	3:D:442:ASN:H	1.61	0.49
3:D:857:ILE:HG13	3:D:858:VAL:HG23	1.94	0.49
3:D:983:LEU:CD2	3:D:987:GLU:HB3	2.41	0.49
3:D:1346:ARG:HH11	3:D:1346:ARG:CG	2.25	0.49
3:D:1376:MET:CE	3:D:1421:LEU:HA	2.43	0.49
3:D:1398:TRP:CB	3:D:1402:ALA:HB3	2.43	0.49
4:E:92:ILE:HB	4:E:93:TYR:CD1	2.47	0.49
5:F:161:GLN:O	5:F:165:SER:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:LEU:C	1:K:39:PRO:HD2	2.33	0.49
2:M:95:TYR:HA	2:M:113:VAL:O	2.13	0.49
2:M:208:ALA:O	2:M:212:GLY:HA3	2.12	0.49
2:M:705:ILE:HG23	2:M:705:ILE:O	2.13	0.49
2:M:916:GLU:O	2:M:919:ALA:HB3	2.12	0.49
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.13	0.49
3:N:100:ALA:HB3	3:N:575:GLN:HE22	1.77	0.49
3:N:187:LYS:N	3:N:200:ASP:OD2	2.46	0.49
3:N:322:VAL:HA	3:N:335:LEU:CD1	2.42	0.49
3:N:401:TYR:HB2	3:N:444:VAL:HG23	1.95	0.49
3:N:421:LEU:HD11	3:N:429:SER:HB3	1.95	0.49
3:N:441:ARG:O	3:N:442:ASN:C	2.51	0.49
3:N:521:PRO:C	3:N:525:ARG:NH1	2.66	0.49
3:N:657:LEU:O	3:N:658:LEU:C	2.51	0.49
3:N:806:PHE:CE2	3:N:812:ALA:HB3	2.47	0.49
3:N:895:VAL:O	3:N:899:LEU:HG	2.12	0.49
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.49
3:N:1046:GLN:HB2	3:N:1052:THR:HA	1.93	0.49
3:N:1048:PRO:CG	3:N:1075:HIS:HD2	2.22	0.49
3:N:1341:PRO:HG2	3:N:1342:GLU:CD	2.30	0.49
3:N:1394:VAL:HG11	3:N:1397:LYS:HE3	1.94	0.49
3:N:1445:HIS:O	3:N:1446:VAL:C	2.49	0.49
5:P:115:LYS:O	5:P:119:ILE:HG13	2.13	0.49
1:A:16:GLN:CD	1:B:235:ALA:HB1	2.33	0.48
1:A:57:TYR:CE1	1:A:163:ASN:HB2	2.46	0.48
1:A:213:GLN:O	1:A:214:ALA:C	2.51	0.48
2:C:20:GLU:C	2:C:23:VAL:HG22	2.33	0.48
2:C:48:PHE:CE1	2:C:71:TYR:HB3	2.48	0.48
2:C:424:GLY:O	2:C:428:ARG:HG3	2.13	0.48
2:C:498:GLN:HB3	2:C:500:ASN:OD1	2.13	0.48
2:C:499:ALA:HB2	2:C:533:ASP:O	2.13	0.48
2:C:800:VAL:HG12	2:C:801:VAL:N	2.28	0.48
2:C:833:LEU:HD12	2:C:837:ASP:OD2	2.13	0.48
2:C:874:LEU:HB3	3:D:1029:ARG:HD3	1.95	0.48
2:C:939:ARG:HD2	2:C:982:PRO:HD3	1.94	0.48
3:D:226:PRO:HB2	3:D:231:VAL:HG21	1.94	0.48
3:D:470:LEU:HB2	3:D:503:LEU:CD2	2.42	0.48
3:D:783:ARG:CZ	3:D:1029:ARG:NH1	2.76	0.48
3:D:827:ILE:CA	3:D:836:VAL:HB	2.38	0.48
3:D:1117:TYR:HD1	3:D:1118:ILE:O	1.96	0.48
3:D:1466:VAL:O	3:D:1468:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:86:GLN:O	4:E:90:GLU:HG3	2.13	0.48
5:F:130:VAL:O	5:F:131:VAL:C	2.52	0.48
1:K:100:LEU:HD23	1:K:101:LEU:N	2.23	0.48
1:K:152:PRO:HA	1:K:168:ASP:OD1	2.13	0.48
1:K:153:ALA:HA	1:K:156:HIS:CE1	2.48	0.48
1:L:83:LYS:CE	1:L:168:ASP:HB2	2.43	0.48
1:L:91:ASN:CB	1:L:94:LEU:HG	2.39	0.48
2:M:176:VAL:HG12	2:M:181:VAL:O	2.12	0.48
2:M:230:ARG:O	2:M:230:ARG:HG2	2.13	0.48
2:M:498:GLN:CD	3:N:1068:LEU:HB2	2.33	0.48
2:M:554:ASP:OD2	2:M:556:ASN:HB2	2.12	0.48
3:N:22:SER:HB2	3:N:92:HIS:ND1	2.28	0.48
3:N:98:PRO:CA	3:N:514:LEU:O	2.60	0.48
3:N:225:LEU:O	3:N:330:THR:HA	2.13	0.48
3:N:317:VAL:HG23	3:N:338:GLU:O	2.13	0.48
3:N:712:GLY:C	3:N:713:ILE:HG13	2.33	0.48
3:N:967:ALA:HB2	3:N:999:THR:HG21	1.95	0.48
3:N:1137:ARG:O	3:N:1138:ALA:C	2.49	0.48
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.39	0.48
4:O:29:GLN:O	4:O:31:LEU:N	2.45	0.48
5:P:300:ASP:OD1	5:P:302:LYS:HG3	2.12	0.48
1:A:43:ILE:CG2	1:A:47:SER:HB2	2.42	0.48
1:A:101:LEU:HD13	1:A:113:ASP:O	2.13	0.48
2:C:258:TYR:N	2:C:258:TYR:CD2	2.79	0.48
2:C:313:LEU:C	2:C:315:ALA:N	2.65	0.48
2:C:471:TYR:CD1	2:C:486:MET:HE2	2.48	0.48
2:C:612:VAL:HA	2:C:622:GLU:HA	1.95	0.48
3:D:55:ASP:OD2	5:F:337:HIS:NE2	2.46	0.48
3:D:175:VAL:HG11	3:D:192:ALA:HB1	1.93	0.48
3:D:223:LEU:O	3:D:332:TYR:CD1	2.66	0.48
3:D:318:ARG:CZ	3:D:338:GLU:OE2	2.61	0.48
3:D:438:ASP:C	3:D:439:LEU:HD23	2.34	0.48
3:D:989:TYR:O	3:D:992:ILE:HB	2.13	0.48
3:D:1041:LEU:HD21	3:D:1043:GLY:HA2	1.95	0.48
3:D:1098:LEU:HD12	3:D:1098:LEU:N	2.27	0.48
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.32	0.48
3:D:1440:PHE:HE2	3:D:1463:LYS:HZ3	1.60	0.48
3:D:1465:ASN:ND2	3:D:1471:LEU:O	2.42	0.48
1:L:10:VAL:HG23	1:L:10:VAL:O	2.12	0.48
1:L:72:LYS:C	1:L:72:LYS:HD3	2.33	0.48
2:M:193:LEU:CD2	2:M:307:LEU:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:198:ARG:HH21	2:M:231:PRO:CD	2.24	0.48
2:M:385:PHE:CD1	2:M:385:PHE:C	2.84	0.48
2:M:557:ARG:O	2:M:844:GLY:HA3	2.13	0.48
2:M:690:ILE:HB	2:M:852:ILE:HG12	1.95	0.48
2:M:712:ALA:HA	2:M:720:GLU:OE1	2.13	0.48
2:M:914:ILE:HD12	2:M:914:ILE:H	1.75	0.48
2:M:1033:GLY:O	2:M:1036:GLU:HB2	2.13	0.48
3:N:119:SER:HB3	3:N:123:LEU:N	2.23	0.48
3:N:259:VAL:HG21	3:N:292:VAL:CA	2.43	0.48
3:N:355:VAL:CG1	3:N:356:PRO:HD2	2.43	0.48
3:N:573:MET:CE	5:P:211:ASP:OD1	2.61	0.48
3:N:702:LEU:O	3:N:736:PHE:HZ	1.95	0.48
3:N:844:ALA:HB1	3:N:867:ARG:NH1	2.28	0.48
3:N:896:ALA:O	3:N:900:ILE:HG13	2.12	0.48
3:N:1379:VAL:HA	3:N:1420:LEU:HB2	1.95	0.48
3:N:1415:VAL:HG23	3:N:1415:VAL:O	2.13	0.48
5:P:75:ILE:CG1	5:P:76:SER:H	2.10	0.48
5:P:76:SER:C	5:P:78:SER:N	2.65	0.48
5:P:288:TYR:C	5:P:291:ILE:HG23	2.32	0.48
2:C:182:VAL:CG2	2:C:221:LEU:HA	2.43	0.48
2:C:389:SER:HB3	2:C:392:SER:CB	2.44	0.48
2:C:1095:LEU:HG	3:D:603:LEU:HD13	1.93	0.48
3:D:41:ARG:NH2	3:D:48:ARG:NH1	2.61	0.48
3:D:128:TYR:OH	3:D:575:GLN:CD	2.51	0.48
3:D:152:LEU:CG	3:D:153:LEU:N	2.77	0.48
3:D:162:ARG:HA	3:D:449:SER:OG	2.13	0.48
3:D:241:ILE:HD13	3:D:310:LEU:HD22	1.93	0.48
3:D:324:ALA:CB	3:D:331:VAL:HG11	2.44	0.48
3:D:355:VAL:HG23	3:D:367:ILE:HG23	1.93	0.48
3:D:522:PRO:N	3:D:525:ARG:HH12	2.12	0.48
3:D:662:GLU:N	3:D:667:ALA:HB3	2.28	0.48
3:D:793:THR:HG21	3:D:906:GLN:CG	2.41	0.48
3:D:1397:LYS:CB	3:D:1398:TRP:CZ3	2.93	0.48
5:F:120:THR:CG2	5:F:122:LEU:HG	2.43	0.48
1:K:206:THR:HB	1:K:209:GLU:OE1	2.13	0.48
1:L:5:LYS:HZ3	1:L:189:ARG:NE	2.12	0.48
2:M:17:PRO:O	2:M:20:GLU:HB2	2.14	0.48
2:M:203:ASP:CA	2:M:228:ALA:HB1	2.43	0.48
2:M:212:GLY:HA3	2:M:218:VAL:CG1	2.42	0.48
2:M:309:TYR:CZ	2:M:321:GLU:HG3	2.47	0.48
2:M:380:ALA:CA	2:M:384:GLU:HG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:685:GLU:HB3	3:N:740:PHE:HD1	1.77	0.48
2:M:685:GLU:C	2:M:687:ALA:H	2.16	0.48
2:M:691:SER:C	2:M:693:GLU:N	2.63	0.48
2:M:764:GLU:HB3	2:M:766:GLU:OE2	2.12	0.48
2:M:769:PRO:HG2	3:N:65:ARG:NH1	2.28	0.48
2:M:808:ARG:O	2:M:810:ASP:N	2.46	0.48
2:M:946:ARG:HH11	2:M:984:GLU:CB	2.26	0.48
2:M:1015:LEU:CD1	5:P:335:ASP:HB2	2.42	0.48
3:N:39:PRO:HB3	3:N:45:PHE:O	2.12	0.48
3:N:69:GLU:CD	3:N:71:LYS:HZ1	2.17	0.48
3:N:105:VAL:HG13	3:N:124:GLU:OE2	2.13	0.48
3:N:245:LEU:HA	3:N:309:GLY:N	2.04	0.48
3:N:502:PHE:O	3:N:503:LEU:C	2.51	0.48
3:N:757:ALA:O	3:N:758:GLU:C	2.51	0.48
3:N:1092:GLY:O	3:N:1096:ARG:N	2.35	0.48
3:N:1208:ASP:HB3	3:N:1211:MET:O	2.13	0.48
3:N:1372:VAL:O	3:N:1373:ARG:C	2.51	0.48
4:O:19:LEU:O	4:O:20:THR:C	2.51	0.48
1:A:111:ALA:O	1:A:114:PHE:HD1	1.97	0.48
2:C:250:ARG:O	2:C:252:LYS:N	2.47	0.48
2:C:550:LEU:HD22	2:C:905:ILE:HD11	1.96	0.48
2:C:589:ARG:HG2	2:C:596:TYR:CZ	2.48	0.48
2:C:603:VAL:HG11	2:C:644:VAL:C	2.34	0.48
2:C:809:GLY:N	2:C:813:VAL:HB	2.28	0.48
2:C:958:THR:O	2:C:959:PRO:C	2.52	0.48
3:D:135:LEU:HG	3:D:151:GLN:O	2.13	0.48
3:D:266:GLU:OE1	3:D:314:PRO:HB3	2.14	0.48
3:D:491:LYS:O	3:D:494:LYS:HB2	2.13	0.48
3:D:630:VAL:HG12	3:D:631:ILE:N	2.27	0.48
3:D:661:MET:HE1	3:D:677:LEU:HD11	1.93	0.48
3:D:1046:GLN:CB	3:D:1052:THR:HA	2.44	0.48
3:D:1345:GLU:O	3:D:1346:ARG:C	2.52	0.48
3:D:1381:VAL:HG11	3:D:1388:ARG:O	2.13	0.48
4:E:29:GLN:CG	4:E:30:LEU:N	2.76	0.48
4:E:40:LEU:HD13	4:E:72:ARG:HH12	1.78	0.48
5:F:125:ASP:CG	5:F:126:LEU:N	2.67	0.48
1:K:124:ASN:O	1:K:127:LEU:HB3	2.13	0.48
1:L:167:VAL:HG12	1:L:168:ASP:N	2.27	0.48
1:L:235:ALA:HB3	1:L:236:PRO:CD	2.35	0.48
2:M:198:ARG:NH1	2:M:203:ASP:HB3	2.28	0.48
2:M:230:ARG:CG	2:M:233:GLU:HG2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:321:GLU:H	2:M:321:GLU:CD	2.15	0.48
2:M:549:PHE:CE2	2:M:886:LEU:CB	2.96	0.48
2:M:560:MET:HB3	2:M:564:MET:HE1	1.94	0.48
2:M:1118:LYS:HG3	2:M:1119:ARG:N	2.28	0.48
3:N:795:VAL:HA	3:N:861:GLN:O	2.13	0.48
3:N:984:THR:CG2	3:N:987:GLU:H	2.26	0.48
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.47	0.48
3:N:1108:ARG:HD2	3:N:1199:GLY:HA3	1.95	0.48
3:N:1405:GLU:O	3:N:1410:GLU:C	2.52	0.48
5:P:146:GLY:HA3	5:P:149:GLU:OE2	2.14	0.48
5:P:157:GLU:CD	5:P:157:GLU:N	2.66	0.48
5:P:361:LEU:CG	5:P:362:SER:H	2.25	0.48
1:A:211:LEU:O	1:A:214:ALA:HB3	2.13	0.48
1:B:55:SER:HA	1:B:167:VAL:HG23	1.95	0.48
2:C:112:GLU:OE1	2:C:112:GLU:HA	2.14	0.48
2:C:234:ALA:HA	2:C:237:ARG:HD2	1.94	0.48
2:C:292:ARG:HE	2:C:295:ASP:CB	2.27	0.48
2:C:529:VAL:HG12	2:C:530:GLU:N	2.29	0.48
2:C:742:VAL:CG1	2:C:743:VAL:N	2.77	0.48
2:C:838:LYS:HE3	2:C:997:LEU:HB3	1.95	0.48
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.43	0.48
3:D:186:VAL:O	3:D:189:GLN:HB2	2.13	0.48
3:D:217:LYS:O	3:D:339:TRP:HD1	1.96	0.48
3:D:225:LEU:HD11	3:D:242:LEU:CD1	2.40	0.48
3:D:406:ASP:CB	3:D:423:ASP:HA	2.42	0.48
3:D:493:ARG:HG3	3:D:494:LYS:N	2.27	0.48
3:D:622:ARG:HG2	3:D:622:ARG:HH11	1.77	0.48
3:D:692:GLU:O	3:D:693:GLU:C	2.52	0.48
3:D:692:GLU:O	3:D:695:ILE:HB	2.14	0.48
3:D:756:GLN:HE22	3:D:760:ARG:HD2	1.78	0.48
3:D:914:LEU:HD12	3:D:914:LEU:C	2.33	0.48
3:D:926:LYS:O	3:D:929:ARG:HB2	2.13	0.48
3:D:932:ASP:O	3:D:935:LYS:HE2	2.13	0.48
3:D:1117:TYR:O	3:D:1193:THR:HG21	2.13	0.48
3:D:1443:THR:HG23	10:D:1529:NE6:H24	1.96	0.48
5:F:75:ILE:C	5:F:77:THR:H	2.15	0.48
1:K:38:ASN:HB2	2:M:980:GLY:HA3	1.95	0.48
1:K:73:GLU:CD	1:K:73:GLU:H	2.17	0.48
2:M:108:ILE:HB	2:M:368:THR:CG2	2.27	0.48
2:M:343:GLN:HG2	2:M:385:PHE:CG	2.49	0.48
2:M:909:ALA:O	2:M:910:LYS:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:916:GLU:O	2:M:919:ALA:N	2.46	0.48
2:M:916:GLU:C	2:M:916:GLU:OE1	2.52	0.48
2:M:944:LEU:HD11	2:M:963:LEU:HD21	1.96	0.48
2:M:1008:ARG:NH2	2:M:1012:PRO:O	2.47	0.48
3:N:573:MET:HE3	5:P:210:LEU:HB2	1.96	0.48
3:N:631:ILE:HG12	3:N:743:ASP:O	2.13	0.48
3:N:673:ALA:C	3:N:676:MET:HB3	2.34	0.48
3:N:703:ASN:HD22	3:N:704:ARG:H	1.60	0.48
3:N:1359:GLN:HG3	3:N:1359:GLN:O	2.12	0.48
4:O:46:PRO:HG2	4:O:63:TRP:CD1	2.49	0.48
5:P:367:MET:O	5:P:370:LYS:CG	2.61	0.48
1:A:167:VAL:CG1	1:A:168:ASP:N	2.77	0.48
1:B:68:ILE:HD12	1:B:71:VAL:CB	2.42	0.48
1:B:151:VAL:O	1:B:169:ALA:N	2.47	0.48
1:B:176:ARG:HD3	3:D:884:ARG:NH2	2.28	0.48
2:C:157:ARG:NH1	2:C:314:THR:HA	2.28	0.48
2:C:230:ARG:CG	2:C:230:ARG:HH11	2.24	0.48
2:C:854:PRO:O	2:C:857:ASP:OD2	2.31	0.48
2:C:971:LYS:HZ2	3:D:950:GLY:HA3	1.78	0.48
3:D:45:PHE:HB3	3:D:86:ARG:NH2	2.28	0.48
3:D:69:GLU:CG	3:D:70:GLY:H	2.27	0.48
3:D:208:PRO:O	3:D:209:ARG:HG3	2.13	0.48
3:D:234:GLU:C	3:D:236:TYR:N	2.66	0.48
3:D:285:PRO:O	3:D:286:VAL:C	2.52	0.48
3:D:408:GLU:OE2	3:D:422:ALA:CB	2.62	0.48
3:D:475:LYS:HA	3:D:478:LEU:HB2	1.95	0.48
3:D:564:GLU:HA	5:F:140:ARG:NH1	2.28	0.48
3:D:571:LYS:O	3:D:574:LEU:HB3	2.13	0.48
3:D:1336:LEU:HD12	3:D:1340:GLY:C	2.32	0.48
3:D:1404:ASN:OD1	3:D:1409:ALA:HB2	2.13	0.48
3:D:1458:GLU:O	3:D:1459:LEU:HD23	2.14	0.48
5:F:92:PRO:C	5:F:94:LEU:H	2.16	0.48
5:F:295:MET:HG3	5:F:299:TRP:CE2	2.49	0.48
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.47	0.48
1:K:162:ILE:HG13	1:K:163:ASN:N	2.27	0.48
1:L:34:VAL:O	1:L:36:LEU:N	2.46	0.48
1:L:80:LEU:HB3	3:N:844:ALA:CB	2.40	0.48
2:M:154:ARG:HG2	2:M:156:GLY:H	1.78	0.48
2:M:176:VAL:HG12	2:M:182:VAL:HA	1.95	0.48
2:M:751:PRO:CB	2:M:794:PRO:HA	2.29	0.48
3:N:357:GLU:O	3:N:358:GLY:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:522:PRO:N	3:N:525:ARG:NH1	2.60	0.48
3:N:632:VAL:O	3:N:727:GLN:HA	2.14	0.48
3:N:799:LYS:N	3:N:829:VAL:HG12	2.28	0.48
3:N:806:PHE:H	3:N:809:PRO:HG2	1.79	0.48
3:N:860:LEU:O	3:N:877:PRO:HD2	2.13	0.48
3:N:1068:LEU:O	3:N:1069:GLU:C	2.52	0.48
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.95	0.48
5:P:103:ALA:HB1	5:P:229:TYR:HB3	1.95	0.48
5:P:202:TYR:CD2	5:P:205:ARG:NH1	2.82	0.48
1:A:5:LYS:HZ3	1:A:192:LEU:HD22	1.77	0.48
1:A:41:ARG:O	1:A:45:LEU:HG	2.14	0.48
1:A:167:VAL:HG12	1:A:168:ASP:H	1.75	0.48
1:B:216:GLU:O	1:B:217:ILE:C	2.52	0.48
1:B:239:ALA:C	1:B:241:GLU:N	2.67	0.48
2:C:65:VAL:CG2	2:C:101:ILE:HB	2.43	0.48
2:C:157:ARG:HD3	2:C:158:TYR:CE1	2.49	0.48
2:C:409:ARG:HA	2:C:453:THR:O	2.13	0.48
2:C:446:GLY:O	2:C:448:ASN:N	2.46	0.48
2:C:753:ASP:O	2:C:791:ARG:HA	2.13	0.48
2:C:930:LYS:C	2:C:932:GLU:N	2.66	0.48
2:C:1000:MET:HB3	2:C:1002:GLU:CG	2.34	0.48
2:C:1075:ASP:OD1	2:C:1076:VAL:N	2.41	0.48
3:D:14:SER:C	3:D:16:GLU:N	2.65	0.48
3:D:55:ASP:HA	3:D:83:SER:N	2.29	0.48
3:D:96:ALA:O	5:F:144:ILE:HD11	2.14	0.48
3:D:543:LEU:O	3:D:546:ARG:CG	2.50	0.48
3:D:769:LEU:O	3:D:778:LEU:N	2.45	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
3:D:1098:LEU:O	3:D:1102:THR:N	2.46	0.48
3:D:1178:ALA:HB2	3:D:1183:ILE:HG23	1.95	0.48
3:D:1216:SER:HB2	4:E:16:LYS:H	1.76	0.48
3:D:1335:LEU:HD11	3:D:1343:ALA:HB1	1.95	0.48
3:D:1353:GLN:HB3	3:D:1357:ARG:CZ	2.43	0.48
5:F:361:LEU:CG	5:F:362:SER:N	2.77	0.48
2:M:41:ASN:HB2	2:M:46:ALA:CA	2.43	0.48
2:M:100:LEU:CD2	2:M:368:THR:HG23	2.41	0.48
2:M:174:LEU:CD2	2:M:184:MET:HG2	2.43	0.48
2:M:304:LEU:CB	2:M:305:PRO:CD	2.85	0.48
2:M:610:ARG:HD2	2:M:622:GLU:CG	2.44	0.48
2:M:614:ARG:HA	2:M:619:ARG:O	2.14	0.48
2:M:881:ASN:H	2:M:881:ASN:ND2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:979:THR:C	2:M:981:GLU:N	2.67	0.48
3:N:113:GLY:C	3:N:115:LEU:N	2.67	0.48
3:N:173:PRO:CA	3:N:209:ARG:NH1	2.76	0.48
3:N:458:ALA:HB1	3:N:513:ILE:CD1	2.38	0.48
3:N:477:LEU:C	3:N:479:GLU:N	2.67	0.48
3:N:493:ARG:HG3	3:N:494:LYS:N	2.29	0.48
3:N:761:ILE:CD1	4:O:20:THR:HA	2.43	0.48
3:N:767:HIS:HA	3:N:924:MET:HE2	1.96	0.48
3:N:811:GLU:HB3	3:N:815:ALA:HB3	1.94	0.48
3:N:997:THR:O	3:N:1000:THR:HB	2.14	0.48
3:N:1233:GLY:O	3:N:1235:GLN:N	2.47	0.48
3:N:1277:ILE:CG2	3:N:1278:ASP:N	2.75	0.48
3:N:1290:LEU:O	3:N:1305:LEU:HD23	2.13	0.48
3:N:1313:VAL:HG22	3:N:1314:LYS:H	1.78	0.48
5:P:117:SER:O	5:P:121:GLY:N	2.45	0.48
5:P:287:THR:HG23	5:P:289:GLU:OE1	2.14	0.48
5:P:288:TYR:HB2	5:P:289:GLU:OE2	2.14	0.48
5:P:321:ILE:CG1	5:P:332:PHE:HE1	2.24	0.48
5:P:418:LEU:O	5:P:421:PHE:HA	2.13	0.48
1:B:63:HIS:CD2	3:D:813:LEU:HD13	2.48	0.48
1:B:235:ALA:O	1:B:237:GLU:N	2.46	0.48
2:C:198:ARG:HE	2:C:231:PRO:HD3	1.77	0.48
2:C:317:VAL:H	2:C:318:PRO:HD3	1.74	0.48
2:C:413:LEU:HA	2:C:419:THR:HG23	1.94	0.48
2:C:603:VAL:HG21	2:C:644:VAL:O	2.14	0.48
2:C:625:LEU:CD1	2:C:639:GLN:HB2	2.31	0.48
2:C:648:ARG:O	2:C:649:VAL:HG23	2.14	0.48
2:C:832:LYS:HG2	2:C:833:LEU:H	1.79	0.48
2:C:923:GLU:O	2:C:927:GLY:N	2.46	0.48
2:C:926:PHE:O	2:C:927:GLY:C	2.52	0.48
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.13	0.48
3:D:181:ASP:C	3:D:183:GLU:N	2.61	0.48
3:D:352:ASN:N	3:D:369:ALA:O	2.44	0.48
3:D:355:VAL:CG1	3:D:359:ALA:HB3	2.44	0.48
3:D:630:VAL:HG22	3:D:744:GLN:HG3	1.96	0.48
3:D:828:LYS:HE2	3:D:828:LYS:O	2.13	0.48
3:D:906:GLN:NE2	3:D:906:GLN:HA	2.28	0.48
3:D:969:ARG:CG	3:D:970:LYS:N	2.76	0.48
3:D:1059:SER:HB2	3:D:1065:LEU:CD2	2.44	0.48
3:D:1378:TYR:O	3:D:1420:LEU:HB2	2.13	0.48
3:D:1481:VAL:O	3:D:1483:PHE:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:154:GLU:HG2	3:N:840:LYS:HE3	1.95	0.48
2:M:38:LYS:CG	2:M:39:ARG:H	2.12	0.48
2:M:75:GLU:O	2:M:77:PRO:CD	2.61	0.48
2:M:218:VAL:HG11	2:M:222:MET:HE2	1.96	0.48
2:M:432:ARG:CG	2:M:433:THR:N	2.77	0.48
2:M:439:CYS:SG	2:M:441:VAL:CG1	3.02	0.48
2:M:455:LEU:HD11	2:M:459:ALA:CB	2.43	0.48
2:M:462:ASP:O	2:M:464:LEU:N	2.47	0.48
2:M:564:MET:HA	2:M:567:GLN:NE2	2.29	0.48
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.96	0.48
2:M:757:GLY:HA2	2:M:789:SER:CB	2.43	0.48
2:M:930:LYS:C	2:M:932:GLU:N	2.67	0.48
2:M:1060:ILE:O	2:M:1062:GLY:N	2.47	0.48
3:N:27:GLU:O	3:N:28:LYS:HD3	2.13	0.48
3:N:169:TYR:O	3:N:392:SER:HA	2.14	0.48
3:N:433:GLY:CA	3:N:447:VAL:O	2.56	0.48
3:N:540:LEU:O	3:N:543:LEU:HB2	2.14	0.48
3:N:548:ILE:O	3:N:549:ASN:C	2.52	0.48
3:N:557:LEU:H	3:N:557:LEU:HG	1.33	0.48
3:N:790:TYR:HA	3:N:793:THR:OG1	2.13	0.48
3:N:1167:SER:HB3	3:N:1170:ASP:OD1	2.14	0.48
5:P:287:THR:HG23	5:P:290:GLU:OE1	2.13	0.48
1:B:151:VAL:HG21	1:B:171:PHE:HE1	1.79	0.48
2:C:144:PRO:HB3	2:C:163:ILE:O	2.13	0.48
2:C:198:ARG:HE	2:C:231:PRO:HG3	1.78	0.48
2:C:436:GLY:O	2:C:459:ALA:HB2	2.13	0.48
2:C:644:VAL:O	2:C:647:GLN:CB	2.62	0.48
2:C:773:LEU:O	2:C:776:SER:OG	2.26	0.48
2:C:848:VAL:HG12	2:C:849:VAL:N	2.27	0.48
2:C:914:ILE:O	2:C:916:GLU:N	2.46	0.48
3:D:318:ARG:CG	3:D:319:ALA:N	2.76	0.48
3:D:564:GLU:HA	3:D:567:ILE:HG13	1.95	0.48
3:D:965:GLU:O	3:D:966:GLU:C	2.50	0.48
3:D:1078:ARG:HG3	3:D:1078:ARG:NH1	2.29	0.48
3:D:1106:VAL:HG11	3:D:1474:ALA:HB2	1.95	0.48
3:D:1128:VAL:HG21	3:D:1131:SER:CB	2.34	0.48
3:D:1311:LEU:HD12	3:D:1312:LEU:N	2.23	0.48
3:D:1472:ILE:CD1	3:D:1473:PRO:HD2	2.38	0.48
4:E:40:LEU:HD21	4:E:44:GLU:HB3	1.96	0.48
5:F:115:LYS:HB3	5:F:119:ILE:CD1	2.44	0.48
5:F:291:ILE:HD11	5:F:295:MET:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:362:SER:O	5:F:366:ALA:N	2.44	0.48
1:K:1:MET:CA	1:K:6:LEU:HD22	2.43	0.48
1:K:103:ALA:C	1:K:104:GLU:HG3	2.34	0.48
1:K:107:LYS:CE	1:K:108:GLU:O	2.62	0.48
1:K:138:LEU:HD12	1:K:139:ASN:N	2.26	0.48
1:K:176:ARG:HB3	1:K:200:TRP:CD1	2.48	0.48
1:K:186:LEU:C	1:K:188:GLN:N	2.59	0.48
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.49	0.48
2:M:230:ARG:HD3	2:M:230:ARG:H	1.76	0.48
2:M:575:GLN:HE21	2:M:670:GLN:CB	2.24	0.48
2:M:604:ALA:HB3	2:M:612:VAL:C	2.33	0.48
2:M:1023:GLY:N	2:M:1026:GLN:O	2.46	0.48
2:M:1083:GLU:O	2:M:1084:SER:C	2.52	0.48
2:M:1101:THR:CB	3:N:5:VAL:HG21	2.28	0.48
3:N:41:ARG:HH21	3:N:48:ARG:CZ	2.27	0.48
3:N:131:LYS:HB3	3:N:131:LYS:NZ	2.28	0.48
3:N:136:ASP:HB2	3:N:137:PRO:CD	2.35	0.48
3:N:259:VAL:O	3:N:260:GLU:CG	2.62	0.48
3:N:630:VAL:HG22	3:N:744:GLN:HG2	1.95	0.48
3:N:951:ILE:HD11	3:N:1062:ARG:HG3	1.95	0.48
3:N:1223:ILE:HD11	10:N:1528:NE6:H14B	1.96	0.48
3:N:1223:ILE:O	3:N:1224:VAL:C	2.51	0.48
3:N:1257:PRO:HA	3:N:1260:ILE:HD12	1.96	0.48
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.96	0.48
3:N:1488:ASP:OD1	3:N:1491:THR:HB	2.14	0.48
1:A:29:GLU:HB3	1:A:32:PHE:CD1	2.49	0.48
2:C:178:PRO:C	2:C:220:GLY:HA2	2.25	0.48
2:C:191:PHE:CZ	2:C:196:LEU:HD21	2.49	0.48
2:C:483:VAL:CG2	2:C:484:VAL:N	2.77	0.48
2:C:542:VAL:O	2:C:545:ASN:HB2	2.14	0.48
2:C:599:GLU:HG3	2:C:600:ASP:N	2.28	0.48
2:C:673:LEU:HD23	2:C:673:LEU:HA	1.73	0.48
2:C:698:ASP:HA	2:C:832:LYS:HE3	1.96	0.48
2:C:722:ILE:HG13	2:C:722:ILE:O	2.13	0.48
3:D:110:SER:O	3:D:111:LYS:C	2.52	0.48
3:D:178:LEU:HG	3:D:181:ASP:CG	2.34	0.48
3:D:191:LEU:HD23	3:D:195:VAL:HG12	1.96	0.48
3:D:288:MET:HE1	3:D:307:ALA:HB2	1.95	0.48
3:D:368:VAL:O	3:D:377:VAL:HB	2.14	0.48
3:D:664:LYS:O	3:D:665:GLY:C	2.53	0.48
3:D:1066:THR:HG22	3:D:1068:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1106:VAL:O	3:D:1108:ARG:HG3	2.14	0.48
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.29	0.48
3:D:1380:GLU:HA	3:D:1392:GLY:HA2	1.95	0.48
4:E:24:ALA:O	4:E:27:ALA:HB3	2.14	0.48
4:E:33:HIS:HB2	4:E:37:ASN:OD1	2.14	0.48
5:F:399:GLN:O	5:F:402:ASN:HB2	2.14	0.48
1:K:41:ARG:CG	1:K:45:LEU:HD11	2.41	0.48
2:M:68:PHE:HZ	2:M:71:TYR:N	2.11	0.48
2:M:340:MET:C	2:M:340:MET:SD	2.92	0.48
2:M:643:VAL:HG23	2:M:647:GLN:OE1	2.13	0.48
2:M:1048:THR:O	2:M:1051:GLU:HG3	2.14	0.48
3:N:361:VAL:HG11	3:N:367:ILE:HD11	1.96	0.48
3:N:414:ARG:C	3:N:415:VAL:HG13	2.35	0.48
3:N:565:ILE:HD11	5:P:87:GLU:OE2	2.13	0.48
3:N:570:GLU:CA	5:P:214:GLN:HE21	2.27	0.48
3:N:685:ASP:O	3:N:686:GLU:C	2.52	0.48
3:N:884:ARG:O	3:N:888:GLU:HG2	2.13	0.48
3:N:1118:ILE:HG23	3:N:1193:THR:HG23	1.96	0.48
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.49	0.48
4:O:18:ARG:O	4:O:19:LEU:C	2.51	0.48
5:P:111:GLU:HA	5:P:114:LYS:HG3	1.96	0.48
5:P:235:PHE:O	5:P:236:SER:C	2.52	0.48
5:P:361:LEU:HG	5:P:366:ALA:HB2	1.94	0.48
1:B:97:VAL:CG1	1:B:98:THR:N	2.74	0.47
1:B:186:LEU:HG	1:B:188:GLN:OE1	2.14	0.47
2:C:257:VAL:CA	2:C:261:ILE:HD12	2.28	0.47
2:C:428:ARG:NH2	2:C:447:ALA:O	2.44	0.47
2:C:430:VAL:HB	3:D:1078:ARG:NH1	2.29	0.47
2:C:463:GLU:N	2:C:463:GLU:CD	2.67	0.47
2:C:572:ILE:HG13	2:C:573:ARG:HG3	1.96	0.47
2:C:595:LEU:O	2:C:655:LEU:N	2.47	0.47
3:D:36:THR:HB	3:D:38:LYS:CG	2.38	0.47
3:D:65:ARG:HD2	3:D:66:GLN:H	1.79	0.47
3:D:168:THR:HB	3:D:206:ARG:NH1	2.29	0.47
3:D:225:LEU:O	3:D:331:VAL:N	2.47	0.47
3:D:270:LEU:HD12	3:D:271:VAL:N	2.28	0.47
3:D:313:MET:SD	3:D:314:PRO:CD	2.95	0.47
3:D:760:ARG:NH1	4:E:59:ASN:OD1	2.40	0.47
3:D:1078:ARG:O	3:D:1079:LYS:C	2.53	0.47
3:D:1085:ALA:CA	3:D:1088:THR:HG22	2.43	0.47
3:D:1287:GLU:N	3:D:1288:GLU:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:ARG:O	5:F:135:ILE:N	2.47	0.47
5:F:261:PRO:CD	5:F:264:MET:HG3	2.39	0.47
1:L:106:PRO:CA	1:L:133:GLU:HA	2.36	0.47
2:M:252:LYS:HD3	2:M:298:PHE:HE1	1.79	0.47
2:M:252:LYS:O	2:M:255:ALA:HB3	2.14	0.47
2:M:430:VAL:HG12	3:N:1075:HIS:HA	1.95	0.47
2:M:685:GLU:HB3	3:N:740:PHE:CE1	2.48	0.47
2:M:1076:VAL:HG12	2:M:1077:PRO:N	2.29	0.47
3:N:69:GLU:CG	3:N:71:LYS:HZ3	2.27	0.47
3:N:202:VAL:O	3:N:395:VAL:HA	2.14	0.47
3:N:252:ARG:HG3	3:N:300:LYS:O	2.14	0.47
3:N:361:VAL:HG13	3:N:365:ASP:CB	2.21	0.47
3:N:368:VAL:N	3:N:377:VAL:HB	2.29	0.47
3:N:409:VAL:HG12	3:N:410:SER:N	2.28	0.47
3:N:622:ARG:NH1	3:N:622:ARG:HG2	2.28	0.47
3:N:676:MET:HG3	3:N:677:LEU:HD21	1.95	0.47
3:N:703:ASN:ND2	3:N:704:ARG:N	2.62	0.47
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.93	0.47
3:N:1366:LYS:O	3:N:1369:GLU:N	2.47	0.47
3:N:1378:TYR:HB2	3:N:1422:MET:HE3	1.96	0.47
5:P:77:THR:C	5:P:79:ASP:N	2.66	0.47
5:P:104:ARG:HG3	5:P:105:LYS:N	2.29	0.47
5:P:288:TYR:O	5:P:292:ALA:N	2.33	0.47
5:P:370:LYS:HA	5:P:374:GLY:N	2.28	0.47
5:P:409:LYS:HG3	5:P:410:TYR:H	1.78	0.47
1:A:1:MET:N	1:A:6:LEU:HD13	2.29	0.47
1:A:41:ARG:NH1	1:A:177:VAL:O	2.46	0.47
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.77	0.47
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.48	0.47
1:A:220:GLU:O	1:A:223:THR:CB	2.62	0.47
1:B:111:ALA:HA	1:B:129:ILE:HD11	1.95	0.47
2:C:198:ARG:O	2:C:201:GLY:N	2.46	0.47
2:C:419:THR:O	2:C:420:ARG:HG3	2.15	0.47
2:C:708:TYR:N	2:C:708:TYR:CD1	2.82	0.47
2:C:874:LEU:O	3:D:1029:ARG:HD3	2.14	0.47
3:D:118:LEU:CA	3:D:123:LEU:HD12	2.33	0.47
3:D:473:LEU:O	3:D:476:GLU:HB3	2.13	0.47
3:D:591:VAL:HG12	3:D:599:PRO:CA	2.43	0.47
3:D:614:PHE:CD2	3:D:617:ASN:ND2	2.82	0.47
3:D:1066:THR:CB	3:D:1069:GLU:HG3	2.44	0.47
3:D:1094:LEU:CD2	3:D:1230:GLY:HA2	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1286:THR:HB	3:D:1289:LYS:O	2.13	0.47
5:F:91:VAL:C	5:F:93:LEU:H	2.18	0.47
5:F:156:VAL:HG23	5:F:157:GLU:N	2.25	0.47
1:K:22:GLU:OE1	2:M:934:PHE:CZ	2.67	0.47
1:K:205:VAL:HG12	1:K:206:THR:N	2.29	0.47
1:L:105:GLY:O	1:L:107:LYS:HG2	2.15	0.47
2:M:237:ARG:O	2:M:240:THR:OG1	2.29	0.47
2:M:273:GLY:HA2	2:M:276:LYS:NZ	2.30	0.47
2:M:274:ARG:HH21	2:M:284:ARG:CB	2.10	0.47
2:M:615:TYR:O	2:M:618:GLY:N	2.45	0.47
2:M:1001:VAL:HG23	2:M:1002:GLU:N	2.29	0.47
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.14	0.47
3:N:43:GLY:H	3:N:46:ASP:HB2	1.78	0.47
3:N:73:CYS:C	3:N:75:ARG:H	2.18	0.47
3:N:87:ARG:CA	3:N:523:ASP:HB2	2.43	0.47
3:N:368:VAL:HB	3:N:377:VAL:CB	2.44	0.47
3:N:497:GLU:OE1	3:N:497:GLU:HA	2.13	0.47
3:N:1221:VAL:HG12	3:N:1370:ILE:HD13	1.96	0.47
3:N:1223:ILE:O	3:N:1226:ALA:N	2.47	0.47
3:N:1224:VAL:O	3:N:1225:ALA:C	2.52	0.47
3:N:1296:SER:C	3:N:1298:GLY:N	2.66	0.47
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.86	0.47
3:N:1436:SER:O	3:N:1439:SER:HB3	2.14	0.47
4:O:46:PRO:C	4:O:57:ASP:H	2.16	0.47
4:O:70:THR:C	4:O:72:ARG:N	2.68	0.47
5:P:353:GLU:HA	5:P:356:LYS:HB2	1.95	0.47
1:B:5:LYS:HD3	1:B:5:LYS:HA	1.58	0.47
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.95	0.47
2:C:191:PHE:HB2	2:C:192:PRO:CD	2.45	0.47
2:C:246:ASP:CG	2:C:247:PRO:HD2	2.34	0.47
2:C:334:ARG:HB2	2:C:339:LEU:CD2	2.42	0.47
2:C:367:LEU:HG	2:C:372:LEU:CD2	2.38	0.47
2:C:401:LEU:CD1	2:C:543:ASN:HB3	2.38	0.47
2:C:431:HIS:HE1	2:C:432:ARG:HG2	1.77	0.47
2:C:471:TYR:O	2:C:484:VAL:N	2.47	0.47
2:C:575:GLN:HB2	2:C:670:GLN:HA	1.96	0.47
2:C:588:VAL:HG21	2:C:664:GLY:O	2.14	0.47
2:C:603:VAL:HG12	2:C:645:VAL:HA	1.96	0.47
2:C:615:TYR:OH	2:C:623:TYR:OH	2.26	0.47
2:C:1048:THR:O	2:C:1052:MET:CB	2.62	0.47
3:D:55:ASP:HB3	3:D:82:LYS:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:315:ARG:HD2	3:D:315:ARG:N	2.27	0.47
3:D:459:GLU:O	3:D:463:GLN:HG2	2.15	0.47
3:D:505:SER:CB	3:D:1453:ALA:O	2.62	0.47
3:D:582:LEU:HA	3:D:603:LEU:CD1	2.18	0.47
3:D:656:PHE:HD1	3:D:656:PHE:H	1.62	0.47
3:D:1016:PRO:O	3:D:1021:TYR:HD1	1.98	0.47
3:D:1095:THR:O	3:D:1096:ARG:C	2.53	0.47
3:D:1465:ASN:ND2	3:D:1473:PRO:HD3	2.29	0.47
5:F:95:THR:HG22	5:F:96:LEU:N	2.29	0.47
5:F:124:PRO:O	5:F:127:ILE:HB	2.14	0.47
5:F:127:ILE:HG22	5:F:128:ARG:N	2.29	0.47
5:F:209:PHE:CD2	5:F:213:ILE:HD11	2.50	0.47
5:F:343:ASP:HB2	5:F:347:GLN:HE22	1.78	0.47
5:F:411:HIS:C	5:F:413:SER:H	2.16	0.47
1:K:133:GLU:HG2	1:K:134:GLU:N	2.29	0.47
1:L:58:ILE:O	1:L:59:GLU:C	2.51	0.47
2:M:47:ALA:O	2:M:50:GLU:HG2	2.13	0.47
2:M:408:ARG:O	2:M:454:SER:HA	2.15	0.47
2:M:540:PHE:CD1	2:M:540:PHE:N	2.82	0.47
2:M:976:ASP:C	2:M:978:ARG:H	2.17	0.47
3:N:10:ILE:HG12	3:N:1451:ALA:HA	1.97	0.47
3:N:73:CYS:CB	3:N:76:CYS:SG	3.02	0.47
3:N:207:PHE:HB2	3:N:391:ALA:H	1.79	0.47
3:N:227:LEU:HD11	3:N:326:GLU:HA	1.95	0.47
3:N:843:PHE:HD1	3:N:848:GLU:OE2	1.96	0.47
3:N:1042:ARG:HB3	3:N:1057:VAL:CG1	2.44	0.47
3:N:1378:TYR:HB2	3:N:1422:MET:CE	2.43	0.47
3:N:1489:GLN:O	3:N:1492:LEU:HB2	2.14	0.47
5:P:370:LYS:CG	5:P:371:LEU:N	2.70	0.47
1:A:57:TYR:CE2	1:A:161:ARG:NH1	2.82	0.47
1:B:78:ILE:HG22	1:B:82:LEU:HD21	1.96	0.47
2:C:52:PHE:CD1	2:C:67:ASP:HA	2.48	0.47
2:C:97:ARG:HG2	2:C:111:ASP:HB3	1.96	0.47
2:C:159:ILE:HG22	2:C:175:GLU:HB2	1.96	0.47
2:C:185:LYS:CG	2:C:190:LYS:HD3	2.36	0.47
2:C:327:HIS:ND1	2:C:329:GLY:N	2.62	0.47
2:C:504:GLU:O	2:C:504:GLU:HG3	2.15	0.47
2:C:512:ARG:CB	2:C:523:ILE:HD11	2.45	0.47
2:C:527:GLU:OE1	2:C:527:GLU:N	2.47	0.47
2:C:1004:LYS:HB3	2:C:1006:HIS:HE1	1.80	0.47
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:397:LYS:HG3	3:D:448:GLU:OE1	2.15	0.47
3:D:401:TYR:HB2	3:D:444:VAL:HG23	1.95	0.47
3:D:473:LEU:HA	3:D:476:GLU:HB3	1.96	0.47
3:D:1001:GLU:OE2	3:D:1001:GLU:CA	2.56	0.47
3:D:1253:THR:HG22	3:D:1254:GLN:H	1.80	0.47
5:F:154:LYS:O	5:F:158:GLU:HG3	2.14	0.47
1:K:143:ARG:NH1	1:K:158:ILE:HG23	2.29	0.47
1:K:173:PRO:O	1:K:201:THR:HA	2.14	0.47
1:L:88:ARG:HB2	1:L:121:GLU:HB3	1.96	0.47
2:M:141:HIS:HE1	2:M:143:SER:HA	1.80	0.47
2:M:208:ALA:O	2:M:218:VAL:HG11	2.14	0.47
2:M:209:ARG:N	2:M:209:ARG:HD2	2.28	0.47
2:M:276:LYS:CA	2:M:280:LYS:HE3	2.45	0.47
2:M:322:VAL:O	2:M:323:ASP:CG	2.53	0.47
2:M:544:THR:C	2:M:546:LEU:H	2.17	0.47
2:M:693:GLU:HG3	2:M:697:ARG:HH11	1.79	0.47
2:M:753:ASP:O	2:M:791:ARG:HA	2.14	0.47
2:M:839:LEU:CD2	2:M:996:LYS:HA	2.32	0.47
2:M:1008:ARG:NH1	3:N:624:ASP:OD1	2.48	0.47
3:N:29:PRO:HG3	3:N:548:ILE:CG2	2.45	0.47
3:N:58:CYS:SG	3:N:63:TYR:N	2.67	0.47
3:N:238:PRO:HB3	3:N:318:ARG:HA	1.96	0.47
3:N:325:GLU:N	3:N:331:VAL:HG13	2.29	0.47
3:N:508:ARG:HD3	3:N:510:GLU:OE1	2.14	0.47
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.41	0.47
3:N:812:ALA:C	3:N:814:ALA:H	2.16	0.47
3:N:937:TYR:O	3:N:938:GLY:C	2.52	0.47
3:N:1489:GLN:HA	3:N:1492:LEU:HB2	1.96	0.47
4:O:46:PRO:HB3	4:O:57:ASP:HB3	1.94	0.47
4:O:61:GLU:O	4:O:65:MET:HG3	2.14	0.47
5:P:264:MET:O	5:P:267:THR:OG1	2.28	0.47
1:A:76:VAL:O	1:A:80:LEU:HG	2.15	0.47
1:A:206:THR:O	1:A:207:PRO:C	2.50	0.47
2:C:189:ARG:HH21	2:C:242:LEU:HD23	1.78	0.47
2:C:431:HIS:HE1	2:C:433:THR:HG23	1.80	0.47
2:C:448:ASN:HB3	2:C:452:ILE:HD12	1.95	0.47
2:C:523:ILE:HG12	2:C:524:VAL:N	2.30	0.47
2:C:893:ALA:HB1	2:C:897:LEU:HD12	1.96	0.47
2:C:1100:GLN:O	3:D:9:ARG:HB3	2.14	0.47
2:C:1118:LYS:HG3	2:C:1119:ARG:N	2.29	0.47
3:D:102:ILE:C	3:D:104:PHE:N	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:254:GLU:OE1	3:D:299:GLU:HB2	2.15	0.47
3:D:358:GLY:CA	3:D:385:VAL:O	2.59	0.47
3:D:709:HIS:NE2	3:D:711:LEU:HB2	2.29	0.47
3:D:1025:GLN:C	3:D:1027:GLY:N	2.68	0.47
3:D:1293:PHE:HD1	3:D:1302:GLU:CA	2.27	0.47
3:D:1397:LYS:CG	3:D:1398:TRP:HZ3	2.26	0.47
5:F:368:VAL:CG2	5:F:369:LEU:N	2.71	0.47
5:F:379:ARG:HD3	5:F:379:ARG:C	2.35	0.47
1:L:34:VAL:C	1:L:36:LEU:H	2.18	0.47
2:M:405:ARG:NH2	2:M:409:ARG:NE	2.63	0.47
2:M:428:ARG:NH2	2:M:447:ALA:O	2.47	0.47
2:M:489:THR:O	2:M:490:GLU:C	2.53	0.47
2:M:605:LYS:HB2	2:M:610:ARG:HH21	1.79	0.47
2:M:673:LEU:HD21	2:M:895:TYR:CD1	2.49	0.47
2:M:777:ILE:HG22	5:P:409:LYS:HB3	1.96	0.47
3:N:79:GLU:CG	3:N:80:VAL:H	2.19	0.47
3:N:93:ILE:N	3:N:517:VAL:O	2.47	0.47
3:N:207:PHE:HD1	3:N:391:ALA:HB3	1.80	0.47
3:N:866:VAL:N	3:N:873:LEU:O	2.40	0.47
3:N:970:LYS:HG3	3:N:974:ILE:CD1	2.44	0.47
3:N:1103:HIS:CG	3:N:1104:GLU:N	2.82	0.47
3:N:1121:PRO:O	3:N:1122:LEU:HD23	2.14	0.47
3:N:1401:GLU:C	3:N:1403:LEU:H	2.17	0.47
5:P:94:LEU:HD11	5:P:190:ALA:HB3	1.95	0.47
5:P:373:LYS:HZ2	5:P:373:LYS:CB	2.26	0.47
1:B:186:LEU:O	1:B:188:GLN:NE2	2.48	0.47
3:D:135:LEU:HD11	3:D:148:GLU:CB	2.44	0.47
3:D:139:GLY:HA2	3:D:450:TYR:HE2	1.79	0.47
3:D:142:LEU:HB3	3:D:146:PRO:CA	2.37	0.47
3:D:186:VAL:CG1	3:D:187:LYS:N	2.74	0.47
3:D:358:GLY:HA2	3:D:385:VAL:CA	2.44	0.47
3:D:545:ARG:O	3:D:546:ARG:C	2.52	0.47
3:D:661:MET:HB3	3:D:667:ALA:HB2	1.95	0.47
3:D:828:LYS:HE2	3:D:828:LYS:C	2.34	0.47
3:D:833:GLU:O	3:D:834:THR:CG2	2.63	0.47
4:E:29:GLN:HG3	4:E:30:LEU:N	2.30	0.47
5:F:338:LEU:HA	5:F:339:PRO:HD3	1.75	0.47
1:K:74:ASP:HB3	1:K:77:GLU:HB2	1.97	0.47
1:L:159:LYS:HB2	1:L:164:ALA:HB3	1.97	0.47
2:M:65:VAL:O	2:M:100:LEU:HD12	2.15	0.47
2:M:141:HIS:C	2:M:141:HIS:ND1	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:396:ASP:O	2:M:403:SER:N	2.47	0.47
2:M:596:TYR:O	2:M:655:LEU:HD11	2.15	0.47
2:M:650:ARG:CZ	2:M:653:ASP:OD1	2.63	0.47
2:M:726:ILE:O	2:M:728:HIS:N	2.47	0.47
2:M:941:VAL:O	2:M:942:GLU:C	2.52	0.47
3:N:200:ASP:OD1	3:N:201:GLY:N	2.47	0.47
3:N:572:ARG:CD	5:P:80:PRO:HB3	2.44	0.47
3:N:954:ALA:HA	3:N:1039:CYS:SG	2.55	0.47
3:N:1169:ASP:O	3:N:1170:ASP:C	2.51	0.47
3:N:1313:VAL:CG2	3:N:1314:LYS:N	2.78	0.47
3:N:1426:LYS:O	3:N:1429:LEU:N	2.47	0.47
4:O:56:ASP:HB3	4:O:63:TRP:HZ2	1.79	0.47
4:O:90:GLU:O	4:O:94:PRO:HA	2.14	0.47
5:P:300:ASP:HB3	5:P:302:LYS:HE3	1.96	0.47
1:A:22:GLU:C	1:A:23:PHE:CD1	2.88	0.47
1:A:229:GLN:O	1:B:12:THR:HA	2.14	0.47
1:B:58:ILE:HG22	1:B:61:VAL:HB	1.96	0.47
1:B:70:GLY:HA2	1:B:133:GLU:CG	2.45	0.47
1:B:74:ASP:OD2	1:B:75:VAL:N	2.47	0.47
1:B:112:ARG:CG	1:B:113:ASP:N	2.78	0.47
1:B:117:VAL:CG1	1:B:118:ALA:H	2.27	0.47
2:C:250:ARG:HB2	2:C:253:ALA:HB2	1.96	0.47
2:C:431:HIS:CE1	2:C:433:THR:HG23	2.50	0.47
2:C:523:ILE:O	2:C:524:VAL:CG1	2.62	0.47
2:C:588:VAL:HG13	2:C:593:ALA:HB3	1.96	0.47
2:C:731:GLU:C	2:C:733:ALA:H	2.17	0.47
2:C:737:LEU:HD22	2:C:754:ILE:CG2	2.44	0.47
2:C:762:LYS:O	2:C:765:SER:N	2.47	0.47
2:C:948:GLU:CB	2:C:953:VAL:HG23	2.44	0.47
2:C:1118:LYS:HG3	2:C:1119:ARG:HG3	1.97	0.47
3:D:111:LYS:O	3:D:115:LEU:HB2	2.15	0.47
3:D:441:ARG:O	3:D:443:VAL:HG23	2.15	0.47
3:D:511:TRP:HA	3:D:511:TRP:CE3	2.49	0.47
3:D:833:GLU:O	3:D:834:THR:HG23	2.15	0.47
3:D:833:GLU:C	3:D:834:THR:HG23	2.34	0.47
3:D:988:ARG:NH2	3:D:1054:GLU:OE2	2.48	0.47
3:D:1009:LYS:O	3:D:1013:GLU:HG2	2.14	0.47
3:D:1019:PRO:O	3:D:1020:LEU:C	2.52	0.47
3:D:1067:VAL:HG22	3:D:1068:LEU:N	2.29	0.47
3:D:1172:HIS:O	3:D:1173:LEU:C	2.51	0.47
3:D:1194:CYS:HB2	3:D:1204:CYS:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1280:VAL:HG13	3:D:1317:ASP:C	2.34	0.47
3:D:1280:VAL:HG13	3:D:1317:ASP:N	2.30	0.47
3:D:1397:LYS:C	3:D:1398:TRP:HE3	2.17	0.47
3:D:1426:LYS:O	3:D:1429:LEU:HB3	2.14	0.47
3:D:1462:LEU:O	3:D:1463:LYS:C	2.53	0.47
4:E:5:GLY:O	4:E:9:LEU:N	2.36	0.47
4:E:84:ARG:HG2	4:E:88:GLU:CG	2.45	0.47
5:F:130:VAL:O	5:F:132:ARG:N	2.47	0.47
5:F:269:ASN:O	5:F:271:LEU:N	2.47	0.47
5:F:329:TYR:O	5:F:332:PHE:HD1	1.97	0.47
1:K:56:VAL:HG12	1:K:57:TYR:N	2.29	0.47
1:K:66:SER:HB2	1:K:75:VAL:HG21	1.97	0.47
1:L:5:LYS:NZ	1:L:189:ARG:CZ	2.77	0.47
1:L:18:ARG:O	1:L:207:PRO:HD3	2.15	0.47
1:L:30:ARG:HA	1:L:193:ASP:OD1	2.14	0.47
2:M:208:ALA:HB2	2:M:221:LEU:CD2	2.38	0.47
2:M:252:LYS:CD	2:M:298:PHE:HE1	2.28	0.47
2:M:342:ASP:O	2:M:346:VAL:HG13	2.15	0.47
2:M:431:HIS:ND1	2:M:432:ARG:N	2.62	0.47
2:M:716:LYS:C	2:M:718:GLY:H	2.18	0.47
2:M:727:PRO:HG2	2:M:785:VAL:O	2.15	0.47
2:M:988:VAL:HG23	11:M:1123:HOH:O	2.15	0.47
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.97	0.47
2:M:1046:ALA:HB1	3:N:1471:LEU:CD1	2.43	0.47
2:M:1105:LYS:HB3	2:M:1107:ASN:ND2	2.29	0.47
3:N:307:ALA:HB1	3:N:311:LEU:CD1	2.43	0.47
3:N:329:GLU:HG2	3:N:330:THR:CG2	2.41	0.47
3:N:554:LEU:CD1	3:N:558:LEU:HD11	2.45	0.47
3:N:783:ARG:HG2	3:N:783:ARG:HH11	1.79	0.47
3:N:815:ALA:O	3:N:818:ARG:HB2	2.15	0.47
3:N:857:ILE:O	3:N:858:VAL:CG2	2.63	0.47
3:N:924:MET:HG3	3:N:925:GLU:N	2.30	0.47
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.49	0.47
3:N:1066:THR:HG22	3:N:1068:LEU:H	1.78	0.47
3:N:1111:ASP:HA	3:N:1201:CYS:SG	2.54	0.47
3:N:1124:GLN:O	3:N:1133:ARG:N	2.48	0.47
3:N:1174:LEU:O	3:N:1175:ILE:C	2.53	0.47
3:N:1211:MET:HG3	3:N:1213:ARG:HH11	1.79	0.47
3:N:1352:ILE:O	3:N:1353:GLN:C	2.53	0.47
3:N:1400:VAL:HA	3:N:1408:ILE:HD12	1.95	0.47
3:N:1489:GLN:HA	3:N:1492:LEU:CD1	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:6:ILE:HG23	4:O:7:ASP:N	2.30	0.47
5:P:220:LEU:O	5:P:220:LEU:HD12	2.14	0.47
5:P:234:LYS:HE2	5:P:236:SER:HB2	1.97	0.47
2:C:41:ASN:C	2:C:41:ASN:ND2	2.68	0.47
2:C:157:ARG:HH11	2:C:314:THR:HA	1.79	0.47
2:C:191:PHE:HE2	2:C:196:LEU:HD21	1.76	0.47
2:C:517:ARG:HB2	2:C:520:GLU:CB	2.41	0.47
2:C:1008:ARG:HD2	2:C:1028:GLY:C	2.36	0.47
3:D:212:ARG:HD3	3:D:342:PRO:HB3	1.97	0.47
3:D:351:MET:HA	3:D:369:ALA:O	2.15	0.47
3:D:592:THR:O	3:D:593:ASN:C	2.53	0.47
3:D:832:ARG:C	3:D:834:THR:N	2.67	0.47
3:D:843:PHE:CE1	3:D:849:ALA:HA	2.50	0.47
3:D:944:THR:O	3:D:946:GLY:N	2.48	0.47
3:D:1149:LEU:HG	3:D:1151:ARG:O	2.14	0.47
3:D:1330:ILE:HD12	3:D:1347:TYR:CZ	2.49	0.47
3:D:1462:LEU:O	3:D:1466:VAL:HG23	2.15	0.47
5:F:386:VAL:HG12	5:F:394:ARG:N	2.30	0.47
1:K:22:GLU:OE1	2:M:934:PHE:HZ	1.97	0.47
2:M:246:ASP:OD2	2:M:250:ARG:NH2	2.47	0.47
2:M:262:ALA:O	2:M:265:ARG:HG2	2.15	0.47
2:M:728:HIS:CD2	2:M:734:LEU:HD21	2.49	0.47
2:M:1014:SER:O	2:M:1018:GLN:N	2.46	0.47
3:N:225:LEU:O	3:N:331:VAL:N	2.34	0.47
3:N:554:LEU:HA	3:N:557:LEU:HD12	1.97	0.47
3:N:601:ARG:HH11	3:N:601:ARG:HG2	1.79	0.47
3:N:1109:GLU:HG3	3:N:1196:THR:HG23	1.97	0.47
3:N:1311:LEU:CG	3:N:1312:LEU:N	2.78	0.47
3:N:1342:GLU:O	3:N:1346:ARG:N	2.40	0.47
3:N:1476:THR:CG2	4:O:20:THR:HB	2.45	0.47
5:P:353:GLU:HG3	5:P:417:LYS:HD3	1.96	0.47
5:P:382:THR:CG2	5:P:397:ILE:HB	2.45	0.47
1:A:30:ARG:HH21	1:A:191:ASP:HB2	1.79	0.47
1:B:67:THR:OG1	1:B:68:ILE:N	2.47	0.47
1:B:238:GLU:HB3	1:B:240:LYS:NZ	2.29	0.47
2:C:3:ILE:HD11	2:C:5:ARG:HH21	1.79	0.47
2:C:24:GLU:O	2:C:25:SER:C	2.54	0.47
2:C:41:ASN:CA	2:C:45:GLN:HB3	2.28	0.47
2:C:65:VAL:O	2:C:100:LEU:HD12	2.15	0.47
2:C:172:ILE:HG22	2:C:173:ASP:N	2.30	0.47
2:C:176:VAL:O	2:C:178:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:239:PHE:O	2:C:242:LEU:N	2.39	0.47
2:C:261:ILE:C	2:C:288:ARG:NH2	2.68	0.47
2:C:264:PRO:CB	2:C:289:THR:HG21	2.42	0.47
2:C:517:ARG:N	2:C:520:GLU:HB2	2.30	0.47
2:C:650:ARG:H	2:C:650:ARG:HE	0.79	0.47
2:C:807:ARG:HB3	2:C:807:ARG:HH11	1.79	0.47
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.97	0.47
2:C:1090:LYS:O	2:C:1091:GLU:C	2.53	0.47
3:D:164:GLY:HA3	3:D:447:VAL:HG12	1.97	0.47
3:D:775:GLY:CA	3:D:1209:LEU:HD22	2.44	0.47
3:D:826:PRO:HB3	3:D:828:LYS:NZ	2.29	0.47
3:D:1171:VAL:O	3:D:1172:HIS:C	2.52	0.47
3:D:1213:ARG:HG2	3:D:1213:ARG:NH1	2.23	0.47
3:D:1442:ASN:O	3:D:1442:ASN:ND2	2.48	0.47
3:D:1444:THR:O	3:D:1445:HIS:C	2.52	0.47
5:F:102:LEU:CD1	5:F:183:ALA:HB1	2.45	0.47
5:F:290:GLU:O	5:F:293:GLU:HB2	2.15	0.47
5:F:313:GLU:CD	5:F:313:GLU:H	2.18	0.47
1:L:87:VAL:HG12	1:L:122:ILE:HG12	1.96	0.47
1:L:111:ALA:HB3	1:L:125:PRO:CA	2.40	0.47
2:M:73:LEU:HB2	2:M:93:PRO:O	2.14	0.47
2:M:164:PRO:HD3	2:M:266:ARG:HH21	1.78	0.47
2:M:257:VAL:HA	2:M:261:ILE:CD1	2.33	0.47
2:M:264:PRO:C	2:M:289:THR:HG21	2.36	0.47
2:M:439:CYS:HB2	2:M:541:SER:CB	2.43	0.47
2:M:493:ARG:HB2	2:M:494:TYR:CD1	2.49	0.47
2:M:760:SER:O	2:M:785:VAL:HG13	2.15	0.47
2:M:906:PHE:HZ	3:N:1070:TYR:CG	2.33	0.47
2:M:909:ALA:HA	2:M:913:GLU:OE1	2.15	0.47
2:M:1105:LYS:CB	2:M:1107:ASN:ND2	2.78	0.47
3:N:126:VAL:HG12	3:N:127:LEU:N	2.29	0.47
3:N:137:PRO:HD3	3:N:453:ASP:HB3	1.94	0.47
3:N:170:PRO:HA	3:N:391:ALA:O	2.14	0.47
3:N:188:GLY:N	3:N:198:ARG:HA	2.27	0.47
3:N:207:PHE:HE1	5:P:95:THR:HB	1.80	0.47
3:N:224:ARG:HD2	3:N:332:TYR:HB2	1.97	0.47
3:N:249:TYR:CG	3:N:307:ALA:HB3	2.49	0.47
3:N:297:ILE:HB	3:N:302:GLN:HE22	1.80	0.47
3:N:508:ARG:HA	3:N:509:PRO:HD2	1.63	0.47
3:N:564:GLU:O	3:N:567:ILE:HB	2.15	0.47
3:N:806:PHE:HA	3:N:809:PRO:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1213:ARG:CG	3:N:1213:ARG:NH1	2.73	0.47
3:N:1274:ILE:HA	3:N:1325:LEU:HG	1.96	0.47
3:N:1344:VAL:O	3:N:1347:TYR:HB3	2.14	0.47
3:N:1496:GLU:OE2	3:N:1499:ARG:HB3	2.15	0.47
5:P:247:ILE:O	5:P:248:ASN:C	2.51	0.47
2:C:6:PHE:CB	2:C:908:GLY:HA2	2.44	0.47
2:C:93:PRO:HB3	2:C:114:PHE:HD1	1.80	0.47
2:C:240:THR:C	2:C:242:LEU:N	2.68	0.47
2:C:302:VAL:HB	2:C:303:PHE:HD1	1.79	0.47
2:C:346:VAL:O	2:C:350:ARG:HG3	2.15	0.47
2:C:408:ARG:HD3	11:C:1122:HOH:O	2.14	0.47
2:C:441:VAL:O	2:C:559:LEU:HD13	2.15	0.47
2:C:889:HIS:CE1	3:D:951:ILE:H	2.24	0.47
2:C:1043:TYR:CD1	3:D:710:ARG:HB2	2.50	0.47
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.50	0.47
3:D:416:ALA:CB	3:D:432:TYR:CG	2.97	0.47
3:D:615:ARG:O	3:D:1096:ARG:NH2	2.48	0.47
3:D:932:ASP:CA	3:D:935:LYS:HE2	2.45	0.47
3:D:1296:SER:HB3	3:D:1299:PHE:HD1	1.80	0.47
3:D:1404:ASN:HB3	3:D:1409:ALA:HB3	1.97	0.47
4:E:42:PRO:O	4:E:43:GLU:C	2.54	0.47
5:F:111:GLU:O	5:F:114:LYS:HB2	2.15	0.47
5:F:393:THR:HG22	5:F:395:GLU:H	1.80	0.47
1:K:200:TRP:CD1	1:K:200:TRP:N	2.83	0.47
2:M:175:GLU:C	2:M:183:SER:HB2	2.35	0.47
2:M:175:GLU:CG	2:M:176:VAL:H	2.11	0.47
2:M:399:ASN:O	2:M:402:SER:OG	2.28	0.47
2:M:800:VAL:HG12	2:M:801:VAL:N	2.30	0.47
2:M:918:LEU:CD1	2:M:968:LEU:HA	2.45	0.47
2:M:928:LYS:O	2:M:929:ARG:C	2.54	0.47
3:N:114:THR:HG22	3:N:114:THR:O	2.15	0.47
3:N:274:ARG:HD3	3:N:279:VAL:HG11	1.97	0.47
3:N:403:PHE:HD1	3:N:423:ASP:OD1	1.96	0.47
3:N:692:GLU:C	3:N:692:GLU:CD	2.74	0.47
3:N:1041:LEU:HG	3:N:1043:GLY:N	2.29	0.47
3:N:1084:THR:O	3:N:1085:ALA:C	2.53	0.47
3:N:1104:GLU:N	3:N:1104:GLU:OE1	2.47	0.47
3:N:1380:GLU:HA	3:N:1392:GLY:HA2	1.97	0.47
5:P:102:LEU:HD21	5:P:187:LEU:N	2.30	0.47
5:P:145:PRO:HB2	5:P:150:THR:H	1.79	0.47
5:P:271:LEU:O	5:P:272:SER:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:321:ILE:HD11	5:P:329:TYR:CA	2.45	0.47
5:P:352:GLU:C	5:P:354:LEU:N	2.66	0.47
1:A:71:VAL:HG22	1:A:132:LEU:CD2	2.45	0.46
1:B:24:VAL:HG12	1:B:25:LEU:N	2.30	0.46
1:B:179:PHE:CB	1:B:197:LEU:HD13	2.28	0.46
1:B:217:ILE:HG22	1:B:221:HIS:NE2	2.30	0.46
2:C:144:PRO:O	2:C:266:ARG:HD3	2.14	0.46
2:C:191:PHE:CD2	2:C:192:PRO:O	2.68	0.46
2:C:548:PRO:HG2	2:C:843:HIS:CE1	2.50	0.46
3:D:368:VAL:N	3:D:377:VAL:HB	2.27	0.46
3:D:739:ASP:OD1	3:D:739:ASP:N	2.42	0.46
3:D:747:VAL:HG22	3:D:748:HIS:N	2.30	0.46
3:D:1403:LEU:HB3	3:D:1408:ILE:HD12	1.97	0.46
5:F:90:GLN:OE1	5:F:189:GLU:HB3	2.15	0.46
5:F:112:ALA:O	5:F:113:ILE:C	2.53	0.46
1:L:95:GLN:O	1:L:145:ASP:OD1	2.32	0.46
2:M:200:LEU:HB2	2:M:202:TYR:CE2	2.50	0.46
2:M:304:LEU:O	2:M:308:ARG:HG2	2.15	0.46
2:M:550:LEU:C	2:M:552:HIS:H	2.18	0.46
2:M:583:LEU:O	2:M:587:VAL:HG23	2.15	0.46
2:M:1090:LYS:O	2:M:1094:ALA:N	2.35	0.46
3:N:87:ARG:HA	3:N:523:ASP:HB2	1.97	0.46
3:N:131:LYS:C	3:N:456:MET:HE3	2.36	0.46
3:N:257:GLY:CA	3:N:274:ARG:CA	2.92	0.46
3:N:440:VAL:HG23	3:N:441:ARG:N	2.30	0.46
3:N:470:LEU:HB2	3:N:503:LEU:HG	1.97	0.46
3:N:750:PRO:HG2	3:N:756:GLN:NE2	2.31	0.46
3:N:788:GLY:N	3:N:942:SER:HB3	2.30	0.46
3:N:879:ARG:HB3	3:N:902:LEU:HD12	1.97	0.46
3:N:1033:GLN:O	3:N:1034:GLN:C	2.52	0.46
3:N:1079:LYS:HB3	3:N:1239:ARG:NH2	2.30	0.46
4:O:19:LEU:O	4:O:23:VAL:HG23	2.15	0.46
4:O:40:LEU:HD13	4:O:72:ARG:CZ	2.45	0.46
5:P:216:GLY:HA3	5:P:243:ILE:HG23	1.97	0.46
5:P:279:GLN:HA	5:P:286:PRO:HD3	1.97	0.46
5:P:282:LEU:C	5:P:284:ARG:N	2.69	0.46
5:P:300:ASP:CB	5:P:302:LYS:HE3	2.45	0.46
1:A:218:LEU:O	1:A:221:HIS:HB2	2.15	0.46
1:B:54:THR:O	1:B:167:VAL:N	2.48	0.46
1:B:175:ARG:O	1:B:176:ARG:HB2	2.13	0.46
1:B:233:VAL:C	1:B:235:ALA:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:204:GLN:HE22	2:C:225:SER:HB3	1.81	0.46
2:C:260:LEU:HD12	2:C:288:ARG:NE	2.30	0.46
2:C:769:PRO:HA	2:C:772:ARG:HB2	1.96	0.46
2:C:910:LYS:CG	2:C:913:GLU:HG3	2.34	0.46
2:C:916:GLU:C	2:C:916:GLU:OE1	2.54	0.46
2:C:1000:MET:O	2:C:1003:ASP:N	2.47	0.46
2:C:1102:LEU:CD2	2:C:1108:PRO:HA	2.45	0.46
2:C:1112:PHE:C	2:C:1113:GLU:HG2	2.35	0.46
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.45	0.46
3:D:414:ARG:NH1	3:D:451:ASP:OD2	2.48	0.46
3:D:511:TRP:HA	3:D:511:TRP:HE3	1.79	0.46
3:D:567:ILE:O	3:D:568:ARG:C	2.53	0.46
3:D:1122:LEU:O	3:D:1135:ARG:N	2.47	0.46
3:D:1399:ASP:O	3:D:1403:LEU:CB	2.63	0.46
3:D:1434:TRP:CZ3	3:D:1457:ASP:N	2.82	0.46
5:F:110:MET:CE	5:F:111:GLU:HG3	2.45	0.46
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.50	0.46
1:K:107:LYS:HB2	1:K:107:LYS:HE3	1.65	0.46
1:L:152:PRO:HG2	1:L:155:LYS:CB	2.45	0.46
1:L:161:ARG:HB2	1:L:164:ALA:CB	2.29	0.46
2:M:141:HIS:HD2	2:M:334:ARG:HG3	1.80	0.46
2:M:305:PRO:CA	2:M:308:ARG:HG2	2.44	0.46
2:M:551:GLU:O	3:N:1064:GLY:HA2	2.15	0.46
3:N:528:VAL:O	3:N:535:PHE:HB3	2.14	0.46
3:N:740:PHE:CD1	3:N:740:PHE:N	2.82	0.46
3:N:932:ASP:O	3:N:933:ALA:C	2.54	0.46
3:N:1048:PRO:HA	3:N:1079:LYS:CE	2.45	0.46
3:N:1092:GLY:O	3:N:1096:ARG:HB2	2.15	0.46
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.97	0.46
3:N:1339:LYS:HB3	3:N:1343:ALA:HB2	1.96	0.46
3:N:1400:VAL:O	3:N:1408:ILE:HD12	2.15	0.46
5:P:260:ILE:CG1	5:P:261:PRO:HD2	2.44	0.46
5:P:306:GLU:N	5:P:306:GLU:CD	2.69	0.46
5:P:308:LEU:O	5:P:311:ALA:N	2.41	0.46
5:P:373:LYS:HD2	5:P:374:GLY:CA	2.44	0.46
5:P:386:VAL:CG1	5:P:394:ARG:N	2.77	0.46
5:P:392:VAL:CG1	5:P:396:ARG:HD3	2.42	0.46
1:A:169:ALA:HB1	1:A:171:PHE:CZ	2.50	0.46
1:B:28:LEU:HA	1:B:28:LEU:HD23	1.69	0.46
1:B:32:PHE:O	1:B:36:LEU:N	2.47	0.46
2:C:71:TYR:N	2:C:71:TYR:CD2	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:186:VAL:HG22	2:C:189:ARG:O	2.15	0.46
2:C:243:ARG:HG2	2:C:244:PRO:HG3	1.96	0.46
2:C:448:ASN:HA	2:C:451:LEU:HD12	1.96	0.46
2:C:517:ARG:O	2:C:520:GLU:CG	2.63	0.46
2:C:594:ALA:C	2:C:595:LEU:HD23	2.35	0.46
2:C:832:LYS:CG	2:C:833:LEU:H	2.28	0.46
3:D:168:THR:HB	3:D:206:ARG:CZ	2.45	0.46
3:D:246:PRO:HD2	3:D:308:LYS:HA	1.96	0.46
3:D:274:ARG:HE	3:D:279:VAL:CG1	2.27	0.46
3:D:558:LEU:C	3:D:560:GLN:H	2.18	0.46
3:D:866:VAL:HG12	3:D:867:ARG:N	2.30	0.46
3:D:991:GLN:HA	3:D:994:GLN:HG2	1.98	0.46
3:D:1290:LEU:O	3:D:1305:LEU:HD23	2.14	0.46
3:D:1426:LYS:O	3:D:1427:SER:C	2.54	0.46
4:E:19:LEU:O	4:E:19:LEU:HD12	2.16	0.46
4:E:39:VAL:HG23	4:E:67:GLU:OE2	2.15	0.46
4:E:61:GLU:O	4:E:62:THR:C	2.53	0.46
5:F:100:VAL:O	5:F:103:ALA:HB3	2.15	0.46
5:F:323:ASP:O	5:F:325:LYS:HG3	2.14	0.46
1:K:202:ASP:OD1	1:K:203:GLY:N	2.48	0.46
1:K:206:THR:N	1:K:209:GLU:OE1	2.47	0.46
1:L:18:ARG:NH1	1:L:88:ARG:HH22	2.04	0.46
1:L:161:ARG:N	1:L:164:ALA:HB2	2.29	0.46
1:L:208:LEU:O	1:L:209:GLU:C	2.54	0.46
2:M:305:PRO:O	2:M:306:THR:C	2.53	0.46
2:M:562:SER:O	2:M:565:GLN:N	2.48	0.46
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.96	0.46
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.13	0.46
3:N:149:LYS:CG	3:N:150:ARG:N	2.78	0.46
3:N:224:ARG:CG	3:N:330:THR:OG1	2.63	0.46
3:N:264:LEU:HB2	3:N:267:GLY:H	1.77	0.46
3:N:759:ALA:HA	3:N:763:MET:SD	2.55	0.46
3:N:760:ARG:NH1	4:O:59:ASN:OD1	2.48	0.46
3:N:765:SER:C	3:N:767:HIS:H	2.18	0.46
3:N:864:VAL:CG1	3:N:865:THR:H	2.19	0.46
3:N:1353:GLN:O	3:N:1354:LYS:C	2.53	0.46
3:N:1363:LEU:HD23	3:N:1364:HIS:N	2.30	0.46
4:O:68:LEU:O	4:O:69:LEU:C	2.52	0.46
5:P:265:VAL:O	5:P:268:ILE:HB	2.14	0.46
5:P:381:HIS:C	5:P:385:GLU:HG3	2.36	0.46
1:A:154:GLU:CD	1:A:154:GLU:N	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:141:HIS:HD2	2:C:334:ARG:HG2	1.81	0.46
2:C:233:GLU:O	2:C:237:ARG:HG3	2.16	0.46
2:C:453:THR:OG1	2:C:454:SER:N	2.48	0.46
2:C:543:ASN:HB2	2:C:565:GLN:HE21	1.80	0.46
2:C:1017:THR:O	2:C:1018:GLN:HB2	2.15	0.46
3:D:22:SER:C	3:D:24:GLY:H	2.19	0.46
3:D:142:LEU:CB	3:D:146:PRO:HA	2.39	0.46
3:D:206:ARG:NE	3:D:394:LEU:HB2	2.10	0.46
3:D:379:ALA:C	3:D:380:GLU:HG3	2.35	0.46
3:D:499:VAL:HG12	3:D:503:LEU:CD1	2.45	0.46
3:D:562:ALA:HB1	3:D:566:ILE:HD11	1.97	0.46
3:D:592:THR:HG22	3:D:600:LEU:HD21	1.98	0.46
3:D:692:GLU:O	3:D:695:ILE:N	2.49	0.46
3:D:1066:THR:HG22	3:D:1067:VAL:N	2.30	0.46
3:D:1098:LEU:CD1	3:D:1098:LEU:N	2.76	0.46
3:D:1341:PRO:O	3:D:1342:GLU:C	2.53	0.46
4:E:27:ALA:O	4:E:28:GLN:C	2.54	0.46
4:E:30:LEU:CD1	4:E:37:ASN:HB2	2.45	0.46
5:F:274:THR:HG22	5:F:278:LEU:CG	2.45	0.46
5:F:371:LEU:HD23	5:F:375:LEU:CD1	2.46	0.46
1:K:34:VAL:CG1	1:L:42:ARG:NH1	2.78	0.46
1:K:41:ARG:HG2	1:K:45:LEU:CD1	2.45	0.46
1:K:41:ARG:HA	1:K:177:VAL:HG11	1.97	0.46
1:K:56:VAL:O	1:K:165:ILE:N	2.49	0.46
1:K:75:VAL:HA	1:K:78:ILE:HD12	1.97	0.46
1:K:125:PRO:HG2	1:K:126:ASP:H	1.80	0.46
1:K:182:GLU:HG2	1:K:194:LYS:O	2.15	0.46
1:L:30:ARG:HD3	2:M:854:PRO:HG3	1.98	0.46
1:L:143:ARG:HH11	1:L:143:ARG:HG3	1.81	0.46
1:L:180:GLN:HG2	1:L:180:GLN:O	2.15	0.46
1:L:200:TRP:CD1	1:L:200:TRP:N	2.83	0.46
2:M:48:PHE:O	2:M:50:GLU:N	2.48	0.46
2:M:53:PRO:HB3	2:M:67:ASP:OD2	2.15	0.46
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.97	0.46
2:M:261:ILE:CA	2:M:288:ARG:HH21	2.29	0.46
2:M:631:SER:HB2	2:M:637:LEU:HD11	1.96	0.46
2:M:1045:ALA:HB1	2:M:1048:THR:OG1	2.15	0.46
3:N:149:LYS:N	3:N:149:LYS:CD	2.76	0.46
3:N:172:PRO:O	3:N:173:PRO:C	2.54	0.46
3:N:234:GLU:C	3:N:236:TYR:H	2.19	0.46
3:N:324:ALA:HA	3:N:333:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:490:ALA:HA	3:N:493:ARG:HH21	1.80	0.46
3:N:1048:PRO:HA	3:N:1079:LYS:HZ1	1.79	0.46
3:N:1079:LYS:HA	3:N:1082:ALA:HB3	1.98	0.46
3:N:1206:GLY:O	3:N:1214:PRO:HA	2.15	0.46
3:N:1236:LEU:O	3:N:1237:THR:C	2.53	0.46
3:N:1258:ARG:HH21	3:N:1351:GLU:HG3	1.81	0.46
3:N:1466:VAL:C	3:N:1468:LEU:N	2.69	0.46
3:N:1481:VAL:O	3:N:1482:ARG:C	2.53	0.46
4:O:60:ALA:O	4:O:61:GLU:C	2.53	0.46
5:P:319:THR:HA	5:P:320:PRO:HD3	1.82	0.46
5:P:352:GLU:O	5:P:355:GLU:CD	2.54	0.46
1:A:91:ASN:O	1:A:94:LEU:HB2	2.16	0.46
1:A:110:LYS:HA	1:A:127:LEU:O	2.15	0.46
1:A:195:LEU:HD12	1:A:195:LEU:C	2.35	0.46
1:B:208:LEU:O	1:B:211:LEU:N	2.48	0.46
2:C:56:GLU:O	2:C:359:MET:HE1	2.16	0.46
2:C:75:GLU:O	2:C:77:PRO:HD3	2.16	0.46
2:C:807:ARG:O	2:C:809:GLY:N	2.49	0.46
2:C:1070:ILE:HG21	3:D:656:PHE:CE1	2.51	0.46
3:D:434:ARG:HH21	3:D:451:ASP:HA	1.81	0.46
3:D:567:ILE:HG22	3:D:571:LYS:CE	2.43	0.46
3:D:656:PHE:O	3:D:659:LYS:HB3	2.16	0.46
3:D:680:GLN:HA	3:D:683:ILE:CG1	2.45	0.46
3:D:917:GLN:O	3:D:918:ALA:C	2.54	0.46
3:D:995:LEU:O	3:D:998:GLU:HB3	2.15	0.46
3:D:1018:ASN:C	3:D:1018:ASN:OD1	2.53	0.46
3:D:1137:ARG:C	3:D:1141:GLU:HG3	2.36	0.46
3:D:1312:LEU:HG	3:D:1312:LEU:O	2.16	0.46
3:D:1341:PRO:HB2	3:D:1342:GLU:OE1	2.14	0.46
3:D:1344:VAL:CG1	3:D:1345:GLU:H	2.28	0.46
3:D:1498:ALA:HB3	4:E:84:ARG:CZ	2.45	0.46
4:E:50:THR:O	4:E:51:LEU:HB2	2.15	0.46
5:F:265:VAL:N	5:F:268:ILE:HD12	2.30	0.46
5:F:288:TYR:O	5:F:289:GLU:C	2.53	0.46
5:F:353:GLU:HA	5:F:356:LYS:HB2	1.97	0.46
1:L:217:ILE:HG22	1:L:221:HIS:CD2	2.51	0.46
2:M:172:ILE:CG2	2:M:173:ASP:N	2.78	0.46
2:M:539:VAL:O	2:M:539:VAL:HG12	2.15	0.46
2:M:1056:LYS:CE	3:N:625:TYR:HB2	2.32	0.46
2:M:1085:PHE:CZ	3:N:1468:LEU:HG	2.50	0.46
3:N:438:ASP:CG	3:N:439:LEU:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:539:ASP:O	3:N:540:LEU:C	2.54	0.46
3:N:637:LEU:HD13	3:N:642:CYS:HA	1.97	0.46
3:N:661:MET:CE	3:N:677:LEU:HD11	2.44	0.46
3:N:765:SER:O	3:N:767:HIS:N	2.47	0.46
3:N:799:LYS:HB2	3:N:826:PRO:CD	2.46	0.46
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.16	0.46
3:N:1091:SER:O	3:N:1092:GLY:C	2.54	0.46
3:N:1311:LEU:HG	3:N:1313:VAL:H	1.80	0.46
5:P:223:ALA:HB2	5:P:242:TRP:CG	2.50	0.46
5:P:291:ILE:O	5:P:294:ALA:N	2.49	0.46
1:A:209:GLU:CA	1:A:212:ASN:ND2	2.79	0.46
1:B:52:ALA:HB3	1:B:171:PHE:CD2	2.51	0.46
1:B:70:GLY:C	1:B:133:GLU:HG2	2.36	0.46
1:B:144:VAL:HG12	1:B:145:ASP:H	1.81	0.46
1:B:195:LEU:HD12	1:B:196:THR:N	2.30	0.46
2:C:12:VAL:HG12	2:C:481:ASP:OD1	2.15	0.46
2:C:218:VAL:O	2:C:221:LEU:HB3	2.16	0.46
2:C:238:LEU:O	2:C:241:LEU:CG	2.52	0.46
2:C:239:PHE:O	2:C:240:THR:C	2.53	0.46
2:C:626:ARG:HH11	2:C:626:ARG:CG	2.26	0.46
2:C:674:VAL:CA	2:C:869:VAL:HG13	2.46	0.46
2:C:707:ARG:NH2	2:C:709:GLU:OE2	2.48	0.46
2:C:808:ARG:O	2:C:809:GLY:C	2.53	0.46
2:C:910:LYS:HE3	2:C:912:PRO:CB	2.45	0.46
2:C:941:VAL:O	2:C:942:GLU:C	2.53	0.46
2:C:984:GLU:CG	3:D:944:THR:O	2.64	0.46
2:C:1015:LEU:HD12	5:F:335:ASP:CB	2.46	0.46
3:D:32:ILE:HG23	3:D:38:LYS:N	2.31	0.46
3:D:246:PRO:O	3:D:248:PRO:HA	2.15	0.46
3:D:418:GLY:O	3:D:428:LYS:CE	2.63	0.46
3:D:470:LEU:C	3:D:472:ALA:N	2.67	0.46
3:D:769:LEU:HD12	3:D:769:LEU:N	2.30	0.46
3:D:907:GLU:H	3:D:910:SER:HG	1.64	0.46
3:D:1041:LEU:HG	3:D:1043:GLY:H	1.76	0.46
3:D:1114:THR:HG23	3:D:1114:THR:O	2.16	0.46
3:D:1120:VAL:CB	3:D:1144:LEU:HD21	2.45	0.46
3:D:1155:VAL:O	3:D:1158:VAL:N	2.28	0.46
3:D:1172:HIS:CA	3:D:1175:ILE:HD12	2.33	0.46
3:D:1480:PHE:HD2	3:D:1481:VAL:HG23	1.72	0.46
5:F:207:LEU:C	5:F:212:LEU:HD21	2.35	0.46
5:F:270:LYS:HA	5:F:273:ARG:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:HG	5:F:362:SER:H	1.79	0.46
2:M:370:ALA:O	2:M:373:VAL:N	2.38	0.46
2:M:415:PRO:C	2:M:417:GLY:H	2.19	0.46
2:M:906:PHE:CZ	3:N:1070:TYR:CD2	3.04	0.46
2:M:946:ARG:NH1	2:M:984:GLU:CB	2.79	0.46
3:N:106:LYS:O	3:N:108:VAL:HG12	2.15	0.46
3:N:209:ARG:HH21	3:N:391:ALA:CB	2.29	0.46
3:N:603:LEU:O	3:N:604:THR:C	2.54	0.46
3:N:615:ARG:HG3	3:N:616:GLN:N	2.30	0.46
3:N:671:LYS:C	3:N:674:ARG:HB2	2.36	0.46
3:N:853:VAL:O	3:N:856:GLY:N	2.43	0.46
3:N:1444:THR:O	3:N:1445:HIS:C	2.54	0.46
4:O:7:ASP:O	4:O:10:PHE:HB2	2.16	0.46
5:P:328:PHE:O	5:P:329:TYR:C	2.54	0.46
5:P:359:SER:O	5:P:361:LEU:N	2.49	0.46
1:A:65:PHE:CD1	1:A:65:PHE:N	2.83	0.46
1:A:71:VAL:HG22	1:A:132:LEU:HD22	1.98	0.46
1:A:109:VAL:HB	1:A:130:ALA:N	2.29	0.46
1:B:41:ARG:HG3	1:B:41:ARG:NH1	2.31	0.46
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.30	0.46
1:B:175:ARG:N	1:B:200:TRP:O	2.33	0.46
1:B:195:LEU:HD12	1:B:196:THR:H	1.81	0.46
2:C:261:ILE:HG22	2:C:262:ALA:N	2.29	0.46
2:C:385:PHE:CG	2:C:386:PHE:N	2.82	0.46
2:C:400:PRO:O	2:C:401:LEU:C	2.54	0.46
2:C:435:TYR:CE2	2:C:516:ARG:CZ	2.98	0.46
2:C:512:ARG:HD3	2:C:512:ARG:HA	1.82	0.46
2:C:607:ASP:OD1	2:C:608:GLY:N	2.49	0.46
2:C:630:ARG:NE	2:C:705:ILE:O	2.48	0.46
2:C:641:PRO:HA	2:C:655:LEU:O	2.16	0.46
2:C:808:ARG:H	2:C:815:LEU:CD1	2.29	0.46
2:C:1009:SER:CB	3:D:651:GLU:OE2	2.63	0.46
3:D:60:CYS:SG	3:D:62:LYS:HG2	2.55	0.46
3:D:115:LEU:O	3:D:116:LEU:HD23	2.16	0.46
3:D:159:ARG:C	3:D:161:LEU:H	2.19	0.46
3:D:178:LEU:CG	3:D:181:ASP:HB2	2.44	0.46
3:D:295:GLY:HA3	3:D:303:PRO:HD3	1.98	0.46
3:D:417:PRO:CB	3:D:429:SER:C	2.84	0.46
3:D:633:VAL:O	3:D:635:PRO:HD3	2.16	0.46
3:D:690:ALA:O	3:D:691:LEU:C	2.54	0.46
3:D:858:VAL:CG1	3:D:859:ASP:N	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.64	0.46
3:D:1292:VAL:O	3:D:1303:TYR:N	2.44	0.46
3:D:1360:GLY:HA2	3:D:1362:LYS:HZ1	1.80	0.46
3:D:1388:ARG:HG2	3:D:1391:GLU:HG3	1.97	0.46
3:D:1462:LEU:HD22	3:D:1472:ILE:CD1	2.46	0.46
3:D:1499:ARG:C	3:D:1499:ARG:HD3	2.36	0.46
5:F:92:PRO:O	5:F:94:LEU:N	2.49	0.46
5:F:296:GLY:HA3	5:F:297:PRO:HD2	1.53	0.46
5:F:402:ASN:HD22	5:F:402:ASN:H	1.61	0.46
2:M:135:VAL:HG23	2:M:395:LYS:HB2	1.96	0.46
2:M:193:LEU:HD23	2:M:307:LEU:HD22	1.97	0.46
2:M:333:ILE:HG21	2:M:461:VAL:HG21	1.98	0.46
2:M:479:VAL:HG21	2:M:503:LEU:HD21	1.97	0.46
2:M:536:PRO:HB2	2:M:905:ILE:CG2	2.46	0.46
2:M:715:THR:HB	2:M:718:GLY:O	2.16	0.46
3:N:84:ILE:C	3:N:86:ARG:N	2.69	0.46
3:N:212:ARG:N	3:N:386:HIS:O	2.40	0.46
3:N:468:LEU:HD11	3:N:473:LEU:HD13	1.97	0.46
3:N:545:ARG:HE	5:P:257:THR:HA	1.81	0.46
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.44	0.46
3:N:704:ARG:NE	3:N:738:ALA:HB2	2.31	0.46
3:N:736:PHE:O	3:N:737:ASN:C	2.53	0.46
3:N:847:ASP:O	3:N:848:GLU:C	2.54	0.46
3:N:1108:ARG:HE	3:N:1199:GLY:CA	2.29	0.46
4:O:57:ASP:O	4:O:63:TRP:NE1	2.40	0.46
1:B:79:ILE:O	1:B:82:LEU:HG	2.15	0.46
1:B:91:ASN:HD22	1:B:92:PRO:N	2.14	0.46
2:C:94:LEU:O	2:C:114:PHE:HA	2.16	0.46
2:C:341:THR:O	2:C:345:ARG:HG3	2.16	0.46
2:C:386:PHE:HD1	2:C:386:PHE:H	1.64	0.46
2:C:550:LEU:CD2	2:C:905:ILE:HD11	2.45	0.46
2:C:625:LEU:HD12	2:C:639:GLN:OE1	2.16	0.46
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.51	0.46
3:D:18:ILE:HD12	3:D:516:ALA:HB3	1.97	0.46
3:D:135:LEU:HD11	3:D:148:GLU:HG3	1.98	0.46
3:D:262:LYS:HG2	3:D:263:GLU:N	2.31	0.46
3:D:575:GLN:HA	3:D:575:GLN:OE1	2.16	0.46
3:D:962:GLN:O	3:D:965:GLU:N	2.48	0.46
3:D:1030:GLY:HA2	3:D:1034:GLN:NE2	2.30	0.46
3:D:1231:GLU:C	3:D:1231:GLU:CD	2.75	0.46
3:D:1283:ILE:HG13	3:D:1315:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1388:ARG:N	3:D:1391:GLU:OE2	2.43	0.46
3:D:1481:VAL:HG21	4:E:18:ARG:HB2	1.98	0.46
5:F:401:GLU:CG	5:F:405:LEU:HD11	2.46	0.46
1:L:70:GLY:HA2	1:L:133:GLU:CG	2.46	0.46
2:M:97:ARG:C	2:M:98:LEU:HD23	2.36	0.46
2:M:202:TYR:O	2:M:207:LEU:HD11	2.16	0.46
2:M:768:THR:HB	2:M:771:GLU:HB3	1.98	0.46
2:M:773:LEU:O	2:M:777:ILE:HG13	2.16	0.46
2:M:922:PHE:O	2:M:923:GLU:C	2.54	0.46
2:M:930:LYS:O	2:M:932:GLU:N	2.39	0.46
2:M:1006:HIS:HA	2:M:1027:PHE:CE1	2.51	0.46
2:M:1040:LEU:HD13	2:M:1049:LEU:HB2	1.97	0.46
3:N:179:VAL:C	3:N:181:ASP:N	2.67	0.46
3:N:182:GLY:HA2	3:N:203:ALA:CB	2.42	0.46
3:N:211:VAL:HA	3:N:386:HIS:O	2.15	0.46
3:N:337:LEU:C	3:N:338:GLU:HG3	2.35	0.46
3:N:441:ARG:C	3:N:443:VAL:H	2.19	0.46
3:N:558:LEU:C	3:N:560:GLN:H	2.17	0.46
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.97	0.46
3:N:855:HIS:O	3:N:857:ILE:HG23	2.15	0.46
3:N:881:LEU:O	3:N:882:PHE:C	2.54	0.46
3:N:1025:GLN:C	3:N:1027:GLY:H	2.18	0.46
3:N:1380:GLU:HB3	3:N:1418:LYS:HB3	1.96	0.46
4:O:92:ILE:HB	4:O:93:TYR:CD1	2.51	0.46
5:P:276:ARG:O	5:P:278:LEU:N	2.48	0.46
5:P:385:GLU:HA	5:P:388:ALA:CB	2.45	0.46
1:B:91:ASN:HB2	1:B:119:ASP:OD2	2.15	0.46
1:B:210:ALA:O	1:B:213:GLN:N	2.49	0.46
2:C:243:ARG:HG3	2:C:244:PRO:CA	2.38	0.46
2:C:335:THR:C	2:C:339:LEU:HD12	2.36	0.46
2:C:432:ARG:CG	2:C:433:THR:N	2.79	0.46
2:C:1031:ARG:N	3:D:622:ARG:NH1	2.63	0.46
2:C:1067:TYR:HB2	5:F:341:PRO:HB3	1.97	0.46
2:C:1100:GLN:O	3:D:9:ARG:N	2.39	0.46
3:D:14:SER:HB2	3:D:17:LYS:CB	2.44	0.46
3:D:169:TYR:N	3:D:393:ILE:O	2.48	0.46
3:D:256:GLU:HB2	3:D:296:GLU:HG2	1.98	0.46
3:D:535:PHE:CD1	3:D:535:PHE:N	2.84	0.46
3:D:655:PRO:O	3:D:658:LEU:HB2	2.16	0.46
3:D:775:GLY:HA3	3:D:1209:LEU:HD22	1.97	0.46
3:D:916:TYR:OH	3:D:1168:MET:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:988:ARG:O	3:D:989:TYR:C	2.54	0.46
3:D:990:ASP:O	3:D:994:GLN:NE2	2.47	0.46
3:D:1091:SER:O	3:D:1093:TYR:N	2.49	0.46
3:D:1363:LEU:HD23	3:D:1363:LEU:C	2.36	0.46
3:D:1383:ASP:CB	3:D:1416:ALA:HB3	2.46	0.46
5:F:392:VAL:CG1	5:F:396:ARG:HB3	2.46	0.46
5:F:400:ILE:O	5:F:401:GLU:C	2.54	0.46
1:L:6:LEU:O	1:L:8:ALA:N	2.45	0.46
1:L:19:GLU:HG2	1:L:203:GLY:N	2.31	0.46
1:L:64:GLU:HA	1:L:75:VAL:HG11	1.96	0.46
1:L:110:LYS:HD2	1:L:126:ASP:CA	2.45	0.46
2:M:213:ALA:C	2:M:215:GLY:N	2.68	0.46
2:M:274:ARG:O	2:M:275:TYR:C	2.53	0.46
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.97	0.46
2:M:701:THR:OG1	2:M:832:LYS:HG3	2.16	0.46
2:M:833:LEU:HD12	2:M:837:ASP:CG	2.35	0.46
2:M:1103:ASP:OD1	2:M:1105:LYS:HB2	2.15	0.46
3:N:259:VAL:HG23	3:N:270:LEU:CD1	2.44	0.46
3:N:372:ASP:C	3:N:374:GLU:H	2.19	0.46
3:N:566:ILE:C	3:N:569:ASN:HB3	2.35	0.46
3:N:630:VAL:HA	3:N:744:GLN:HA	1.98	0.46
3:N:846:PRO:O	3:N:847:ASP:C	2.53	0.46
3:N:1094:LEU:O	3:N:1097:LYS:N	2.48	0.46
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.34	0.46
3:N:1232:PRO:O	3:N:1235:GLN:HG2	2.16	0.46
3:N:1404:ASN:OD1	3:N:1408:ILE:HG22	2.15	0.46
4:O:48:MET:O	4:O:54:LEU:HA	2.16	0.46
5:P:401:GLU:O	5:P:402:ASN:C	2.54	0.46
1:B:206:THR:O	1:B:207:PRO:C	2.54	0.46
1:B:208:LEU:O	1:B:209:GLU:C	2.54	0.46
2:C:3:ILE:HD11	2:C:5:ARG:HE	1.80	0.46
2:C:191:PHE:CD2	2:C:195:LEU:HD11	2.49	0.46
2:C:219:GLN:C	2:C:221:LEU:N	2.65	0.46
2:C:275:TYR:CE1	2:C:279:GLU:OE1	2.69	0.46
2:C:712:ALA:C	2:C:820:ARG:HG3	2.36	0.46
2:C:717:LEU:HD21	2:C:764:GLU:HG3	1.97	0.46
3:D:42:ASP:OD1	3:D:48:ARG:NH2	2.49	0.46
3:D:59:ALA:C	3:D:61:GLY:N	2.70	0.46
3:D:96:ALA:HB3	3:D:554:LEU:CD2	2.46	0.46
3:D:113:GLY:O	3:D:115:LEU:N	2.49	0.46
3:D:522:PRO:CA	3:D:525:ARG:NH1	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:548:ILE:O	3:D:549:ASN:C	2.54	0.46
3:D:695:ILE:O	3:D:696:HIS:C	2.54	0.46
3:D:709:HIS:O	3:D:710:ARG:C	2.54	0.46
3:D:1153:VAL:O	3:D:1159:ARG:HA	2.15	0.46
3:D:1260:ILE:O	3:D:1261:GLU:C	2.54	0.46
5:F:406:ARG:HA	5:F:409:LYS:HE3	1.98	0.46
1:K:108:GLU:HG3	1:K:131:THR:HG22	1.96	0.46
2:M:313:LEU:O	2:M:315:ALA:N	2.49	0.46
2:M:352:ALA:O	2:M:356:ARG:HG3	2.16	0.46
2:M:401:LEU:O	2:M:402:SER:C	2.54	0.46
2:M:645:VAL:C	2:M:647:GLN:H	2.19	0.46
2:M:682:TYR:C	2:M:684:PHE:H	2.19	0.46
2:M:790:LEU:HD12	2:M:791:ARG:N	2.30	0.46
3:N:104:PHE:O	3:N:112:ILE:HD11	2.16	0.46
3:N:259:VAL:HG22	3:N:260:GLU:N	2.31	0.46
3:N:471:GLU:O	3:N:474:GLU:HB3	2.15	0.46
3:N:630:VAL:HG22	3:N:744:GLN:CG	2.46	0.46
3:N:660:LYS:CG	3:N:694:VAL:HG22	2.46	0.46
3:N:990:ASP:HA	3:N:993:LEU:CG	2.46	0.46
3:N:1348:LEU:O	3:N:1349:VAL:C	2.53	0.46
5:P:102:LEU:HD11	5:P:183:ALA:C	2.36	0.46
5:P:207:LEU:HB3	5:P:212:LEU:CD2	2.46	0.46
5:P:382:THR:O	5:P:386:VAL:HG13	2.16	0.46
2:C:192:PRO:O	2:C:195:LEU:CG	2.61	0.45
2:C:285:LEU:HD11	2:C:288:ARG:O	2.15	0.45
2:C:323:ASP:O	2:C:325:ILE:HD12	2.15	0.45
2:C:383:ARG:O	2:C:387:SER:OG	2.32	0.45
2:C:499:ALA:HA	2:C:532:MET:HG2	1.98	0.45
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.51	0.45
2:C:754:ILE:HG12	2:C:791:ARG:HD3	1.97	0.45
2:C:943:VAL:O	2:C:946:ARG:HB3	2.17	0.45
2:C:1089:VAL:O	2:C:1092:LEU:HB2	2.15	0.45
3:D:259:VAL:HG21	3:D:292:VAL:C	2.35	0.45
3:D:302:GLN:O	3:D:304:LEU:HG	2.16	0.45
3:D:685:ASP:C	3:D:687:VAL:N	2.69	0.45
3:D:885:ILE:O	3:D:888:GLU:HB2	2.16	0.45
4:E:92:ILE:HG13	4:E:92:ILE:H	1.57	0.45
5:F:110:MET:HE3	5:F:111:GLU:HG3	1.98	0.45
5:F:140:ARG:HG2	5:F:140:ARG:O	2.16	0.45
5:F:168:LYS:O	5:F:172:ARG:N	2.42	0.45
5:F:174:LEU:C	5:F:174:LEU:HD12	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:238:TYR:CD2	5:F:239:ALA:N	2.84	0.45
1:K:69:PRO:HA	2:M:607:ASP:OD1	2.16	0.45
1:K:186:LEU:HD23	1:K:188:GLN:HE21	1.81	0.45
1:L:44:LEU:O	1:L:174:VAL:HG21	2.16	0.45
2:M:261:ILE:O	2:M:264:PRO:HD2	2.16	0.45
2:M:350:ARG:HA	2:M:353:ARG:CD	2.46	0.45
2:M:512:ARG:HB3	2:M:523:ILE:HG13	1.98	0.45
3:N:56:TYR:CE2	3:N:66:GLN:HG3	2.51	0.45
3:N:162:ARG:NH1	3:N:434:ARG:HH22	2.14	0.45
3:N:274:ARG:CD	3:N:279:VAL:HG11	2.46	0.45
3:N:887:ALA:CA	3:N:890:VAL:HG22	2.46	0.45
3:N:989:TYR:CE2	3:N:993:LEU:HD11	2.51	0.45
3:N:1282:ARG:NH2	3:N:1293:PHE:CD2	2.84	0.45
4:O:55:PHE:N	4:O:55:PHE:CD1	2.84	0.45
5:P:382:THR:HG22	5:P:394:ARG:CA	2.46	0.45
5:P:403:LYS:HD2	5:P:407:LYS:HE2	1.97	0.45
5:P:412:GLU:C	5:P:414:ARG:H	2.18	0.45
1:A:159:LYS:NZ	1:A:164:ALA:O	2.40	0.45
2:C:243:ARG:CG	2:C:244:PRO:CA	2.92	0.45
2:C:395:LYS:CE	2:C:403:SER:HB2	2.44	0.45
2:C:543:ASN:HA	2:C:546:LEU:HD12	1.98	0.45
2:C:645:VAL:C	2:C:647:GLN:H	2.18	0.45
2:C:799:ILE:O	2:C:801:VAL:HG13	2.17	0.45
2:C:903:SER:OG	2:C:908:GLY:HA3	2.16	0.45
2:C:910:LYS:CG	2:C:912:PRO:HD2	2.29	0.45
2:C:976:ASP:OD2	2:C:979:THR:HG23	2.16	0.45
2:C:1014:SER:N	2:C:1021:LEU:HB2	2.32	0.45
3:D:355:VAL:CG1	3:D:356:PRO:HD2	2.46	0.45
3:D:493:ARG:HB2	3:D:1388:ARG:HD2	1.97	0.45
3:D:520:LEU:CG	3:D:524:LEU:HB2	2.46	0.45
3:D:646:LYS:HG2	3:D:720:LEU:HB3	1.98	0.45
3:D:699:VAL:CG1	3:D:717:GLN:HG2	2.42	0.45
3:D:808:THR:OG1	3:D:809:PRO:HD3	2.17	0.45
3:D:828:LYS:N	3:D:828:LYS:CD	2.79	0.45
3:D:884:ARG:C	3:D:888:GLU:HG2	2.36	0.45
3:D:1173:LEU:O	3:D:1176:LYS:N	2.49	0.45
3:D:1380:GLU:N	3:D:1420:LEU:HG	2.31	0.45
5:F:123:ASP:HB2	5:F:126:LEU:HB2	1.98	0.45
5:F:134:LYS:HB3	5:F:178:ARG:HH12	1.81	0.45
5:F:209:PHE:CA	5:F:212:LEU:HG	2.46	0.45
5:F:214:GLN:HA	5:F:217:ASN:ND2	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:287:THR:OG1	5:F:288:TYR:N	2.48	0.45
2:M:23:VAL:HG12	2:M:121:MET:CE	2.46	0.45
2:M:32:ALA:C	2:M:35:PRO:HD2	2.36	0.45
2:M:41:ASN:ND2	2:M:42:VAL:N	2.64	0.45
2:M:397:GLU:CG	2:M:632:ASN:HB2	2.43	0.45
2:M:615:TYR:O	2:M:616:GLU:C	2.55	0.45
2:M:627:ARG:O	2:M:629:TYR:CD1	2.70	0.45
2:M:728:HIS:CD2	2:M:730:SER:O	2.69	0.45
2:M:918:LEU:HD12	2:M:968:LEU:CA	2.44	0.45
3:N:152:LEU:CG	3:N:153:LEU:N	2.79	0.45
3:N:154:THR:HG22	3:N:157:GLU:HB2	1.97	0.45
3:N:372:ASP:OD2	3:N:374:GLU:O	2.34	0.45
3:N:674:ARG:NH2	5:P:342:VAL:HG13	2.31	0.45
3:N:839:LEU:O	3:N:840:LYS:C	2.54	0.45
3:N:1018:ASN:OD1	3:N:1020:LEU:N	2.49	0.45
3:N:1336:LEU:HB3	3:N:1337:GLU:OE1	2.16	0.45
4:O:88:GLU:HA	4:O:91:ARG:HD2	1.99	0.45
5:P:209:PHE:CA	5:P:212:LEU:HG	2.47	0.45
1:A:7:LYS:HA	1:A:7:LYS:HD3	1.66	0.45
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.45
1:A:181:VAL:CG1	1:A:193:ASP:HB3	2.46	0.45
1:A:206:THR:HG21	1:A:208:LEU:HB3	1.96	0.45
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.98	0.45
1:B:176:ARG:HD2	1:B:200:TRP:NE1	2.32	0.45
2:C:12:VAL:HG23	2:C:13:ILE:CD1	2.46	0.45
2:C:441:VAL:CG1	2:C:544:THR:HG21	2.46	0.45
2:C:441:VAL:HG11	2:C:544:THR:HG21	1.98	0.45
2:C:462:ASP:O	2:C:465:GLY:N	2.42	0.45
2:C:503:LEU:HD11	2:C:506:ASN:O	2.16	0.45
2:C:728:HIS:CE1	2:C:730:SER:N	2.85	0.45
2:C:839:LEU:CD2	2:C:996:LYS:HA	2.45	0.45
2:C:854:PRO:O	2:C:856:GLU:N	2.49	0.45
2:C:1082:PRO:O	2:C:1083:GLU:C	2.53	0.45
3:D:127:LEU:HA	3:D:132:TYR:O	2.16	0.45
3:D:185:VAL:HG23	3:D:203:ALA:N	2.30	0.45
3:D:540:LEU:O	3:D:543:LEU:N	2.49	0.45
3:D:770:LEU:HD11	3:D:919:PHE:CE1	2.52	0.45
3:D:823:LEU:HG	3:D:823:LEU:O	2.16	0.45
3:D:884:ARG:O	3:D:886:VAL:N	2.50	0.45
3:D:959:GLU:HB3	3:D:963:TYR:CZ	2.50	0.45
3:D:1379:VAL:HA	3:D:1420:LEU:HG	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:410:TYR:HA	5:F:413:SER:OG	2.15	0.45
1:K:68:ILE:CG2	1:K:69:PRO:HD2	2.43	0.45
1:K:186:LEU:N	1:K:189:ARG:O	2.49	0.45
2:M:57:GLU:HG3	2:M:62:GLY:O	2.16	0.45
2:M:88:LEU:O	2:M:131:GLY:N	2.34	0.45
2:M:267:TYR:CE2	2:M:271:GLU:HB2	2.51	0.45
2:M:274:ARG:HH21	2:M:284:ARG:CD	2.29	0.45
2:M:603:VAL:HG12	2:M:645:VAL:HA	1.96	0.45
2:M:1017:THR:O	2:M:1018:GLN:HB2	2.15	0.45
3:N:297:ILE:HB	3:N:302:GLN:NE2	2.32	0.45
3:N:465:LEU:HD22	3:N:509:PRO:HB2	1.98	0.45
3:N:731:LEU:CD1	3:N:931:LEU:HB3	2.47	0.45
3:N:1127:GLU:OE2	3:N:1133:ARG:HD2	2.17	0.45
3:N:1468:LEU:CD2	3:N:1468:LEU:C	2.85	0.45
3:N:1468:LEU:HD22	3:N:1470:ARG:N	2.31	0.45
4:O:64:ALA:O	4:O:65:MET:C	2.55	0.45
5:P:231:ARG:HB3	5:P:233:PHE:CE2	2.51	0.45
5:P:271:LEU:HD23	5:P:271:LEU:H	1.80	0.45
5:P:364:ARG:HB3	5:P:389:PHE:HZ	1.81	0.45
1:A:41:ARG:CG	1:A:45:LEU:HD11	2.46	0.45
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.46	0.45
1:A:143:ARG:HH11	1:A:158:ILE:HG23	1.82	0.45
1:B:10:VAL:N	1:B:26:GLU:O	2.43	0.45
1:B:41:ARG:CA	1:B:44:LEU:HD12	2.35	0.45
2:C:34:VAL:O	2:C:36:PRO:HD3	2.17	0.45
2:C:87:ASP:CG	2:C:824:ARG:HH22	2.20	0.45
2:C:135:VAL:HG23	2:C:395:LYS:CA	2.44	0.45
2:C:376:ARG:N	2:C:377:PRO:HD2	2.31	0.45
2:C:471:TYR:HB3	2:C:531:PHE:CD2	2.50	0.45
2:C:643:VAL:HG22	2:C:644:VAL:N	2.31	0.45
3:D:227:LEU:CD2	3:D:326:GLU:OE2	2.65	0.45
3:D:550:ARG:HH11	3:D:573:MET:C	2.20	0.45
3:D:766:ALA:O	3:D:767:HIS:HD2	1.99	0.45
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.97	0.45
3:D:862:ASP:O	3:D:876:SER:HB2	2.16	0.45
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.81	0.45
3:D:1081:GLY:O	3:D:1084:THR:HG23	2.15	0.45
3:D:1088:THR:HG23	3:D:1089:ALA:N	2.31	0.45
3:D:1342:GLU:CD	3:D:1342:GLU:N	2.69	0.45
3:D:1342:GLU:OE1	3:D:1342:GLU:N	2.40	0.45
4:E:10:PHE:O	4:E:12:MET:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:206:GLY:O	5:F:207:LEU:HB2	2.16	0.45
5:F:285:GLU:OE1	5:F:285:GLU:HA	2.15	0.45
1:L:30:ARG:HD3	2:M:854:PRO:HB3	1.98	0.45
1:L:38:ASN:O	1:L:42:ARG:HG3	2.15	0.45
2:M:31:GLN:O	2:M:35:PRO:HB2	2.17	0.45
2:M:198:ARG:NE	2:M:231:PRO:HD3	2.30	0.45
2:M:241:LEU:N	2:M:241:LEU:HD23	2.32	0.45
2:M:408:ARG:NH2	2:M:457:ALA:O	2.49	0.45
2:M:600:ASP:CA	2:M:650:ARG:HA	2.46	0.45
2:M:681:GLY:O	2:M:684:PHE:HB2	2.16	0.45
2:M:774:LEU:HA	2:M:777:ILE:CD1	2.40	0.45
2:M:1090:LYS:O	2:M:1093:GLN:HB2	2.17	0.45
3:N:84:ILE:O	3:N:86:ARG:N	2.49	0.45
3:N:373:PRO:O	3:N:376:GLU:OE1	2.35	0.45
3:N:460:ALA:O	3:N:463:GLN:HB2	2.16	0.45
3:N:614:PHE:CZ	10:N:1528:NE6:H23	2.51	0.45
3:N:709:HIS:NE2	3:N:711:LEU:HB2	2.32	0.45
3:N:879:ARG:HB3	3:N:902:LEU:CD1	2.46	0.45
4:O:40:LEU:HD12	4:O:41:GLU:HG2	1.97	0.45
5:P:251:ILE:O	5:P:255:ALA:CB	2.64	0.45
5:P:393:THR:HG22	5:P:395:GLU:H	1.81	0.45
1:A:112:ARG:HE	1:A:125:PRO:HB2	1.81	0.45
1:B:56:VAL:HG13	1:B:142:VAL:HA	1.99	0.45
2:C:20:GLU:HA	2:C:23:VAL:CG2	2.47	0.45
2:C:36:PRO:HG2	2:C:38:LYS:CG	2.47	0.45
2:C:63:GLY:O	2:C:102:HIS:HA	2.17	0.45
2:C:151:ASP:CB	2:C:158:TYR:HA	2.47	0.45
2:C:187:ASN:C	2:C:188:LYS:HG2	2.36	0.45
2:C:205:GLU:HA	2:C:209:ARG:HH11	1.82	0.45
2:C:227:PHE:HD1	2:C:227:PHE:H	1.65	0.45
2:C:275:TYR:O	2:C:279:GLU:HB3	2.17	0.45
2:C:385:PHE:O	2:C:386:PHE:C	2.54	0.45
2:C:399:ASN:CB	2:C:400:PRO:CD	2.95	0.45
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.52	0.45
2:C:604:ALA:HB3	2:C:612:VAL:O	2.16	0.45
2:C:691:SER:HB3	2:C:868:ASP:HA	1.97	0.45
2:C:714:ASP:OD2	2:C:820:ARG:NE	2.50	0.45
2:C:910:LYS:HE3	2:C:912:PRO:CG	2.46	0.45
2:C:986:PRO:O	2:C:987:ILE:HD13	2.17	0.45
2:C:1094:ALA:HA	3:D:518:PRO:HB2	1.98	0.45
3:D:274:ARG:HE	3:D:279:VAL:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:463:GLN:NE2	3:D:463:GLN:HA	2.32	0.45
3:D:575:GLN:OE1	3:D:575:GLN:CA	2.65	0.45
3:D:584:ASN:H	3:D:602:SER:CB	2.29	0.45
3:D:966:GLU:HA	3:D:969:ARG:NH2	2.31	0.45
3:D:1103:HIS:CD2	3:D:1463:LYS:N	2.79	0.45
3:D:1105:ILE:HA	3:D:1198:TYR:O	2.17	0.45
3:D:1211:MET:CB	3:D:1213:ARG:NH1	2.79	0.45
3:D:1479:ASP:HA	3:D:1482:ARG:CG	2.46	0.45
5:F:256:ARG:HG2	5:F:258:ILE:H	1.81	0.45
1:K:58:ILE:O	1:K:59:GLU:C	2.55	0.45
1:K:183:ASP:OD1	1:K:190:THR:O	2.33	0.45
1:K:189:ARG:HB2	1:K:192:LEU:HD11	1.98	0.45
2:M:73:LEU:HD12	2:M:73:LEU:C	2.37	0.45
2:M:235:LEU:HD22	2:M:236:ILE:CG1	2.47	0.45
2:M:479:VAL:HB	2:M:506:ASN:OD1	2.16	0.45
2:M:546:LEU:C	2:M:581:THR:HG21	2.37	0.45
2:M:607:ASP:O	2:M:609:ASN:N	2.50	0.45
2:M:712:ALA:CB	2:M:821:GLU:HG2	2.46	0.45
2:M:728:HIS:NE2	2:M:733:ALA:HB3	2.32	0.45
2:M:961:GLU:O	2:M:962:GLN:C	2.54	0.45
3:N:215:TYR:HD1	3:N:381:ALA:O	1.99	0.45
3:N:438:ASP:O	3:N:439:LEU:HD23	2.16	0.45
3:N:491:LYS:O	3:N:492:ALA:C	2.55	0.45
3:N:1034:GLN:O	3:N:1037:GLN:HB2	2.17	0.45
3:N:1048:PRO:CG	3:N:1075:HIS:CD2	2.95	0.45
3:N:1194:CYS:HA	3:N:1204:CYS:SG	2.56	0.45
4:O:40:LEU:HD21	4:O:44:GLU:CB	2.47	0.45
5:P:132:ARG:O	5:P:133:ALA:C	2.55	0.45
5:P:261:PRO:C	5:P:264:MET:HB2	2.37	0.45
5:P:306:GLU:O	5:P:310:ILE:HG13	2.16	0.45
5:P:402:ASN:O	5:P:406:ARG:HG3	2.16	0.45
1:A:29:GLU:O	1:A:30:ARG:C	2.54	0.45
1:A:105:GLY:O	1:A:107:LYS:HG2	2.16	0.45
1:A:219:ARG:O	1:A:220:GLU:C	2.54	0.45
1:B:40:LEU:O	1:B:41:ARG:C	2.54	0.45
1:B:212:ASN:OD1	1:B:212:ASN:N	2.47	0.45
2:C:54:ILE:HG23	2:C:54:ILE:O	2.16	0.45
2:C:175:GLU:O	2:C:176:VAL:CG1	2.59	0.45
2:C:432:ARG:NH1	2:C:518:LYS:O	2.50	0.45
2:C:771:GLU:O	2:C:772:ARG:C	2.54	0.45
3:D:109:PRO:O	3:D:111:LYS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:441:ARG:CB	3:D:443:VAL:HG23	2.47	0.45
3:D:569:ASN:HD21	5:F:214:GLN:NE2	2.15	0.45
3:D:773:ALA:HA	3:D:1367:HIS:NE2	2.31	0.45
3:D:1396:GLU:O	3:D:1397:LYS:CD	2.65	0.45
5:F:84:TYR:O	5:F:87:GLU:HG2	2.17	0.45
5:F:110:MET:HE3	5:F:111:GLU:N	2.32	0.45
5:F:157:GLU:HB3	5:F:161:GLN:OE1	2.16	0.45
5:F:220:LEU:O	5:F:223:ALA:HB3	2.17	0.45
5:F:321:ILE:HD11	5:F:329:TYR:CA	2.47	0.45
1:K:18:ARG:O	1:K:207:PRO:HD3	2.15	0.45
1:K:143:ARG:HH11	1:K:158:ILE:CG2	2.29	0.45
1:K:215:VAL:O	1:K:218:LEU:HB3	2.15	0.45
1:L:28:LEU:HD22	1:L:29:GLU:N	2.32	0.45
1:L:28:LEU:HD22	1:L:29:GLU:H	1.81	0.45
1:L:120:VAL:HG12	1:L:121:GLU:N	2.31	0.45
2:M:138:SER:HB2	2:M:333:ILE:HD11	1.98	0.45
2:M:148:PHE:CZ	2:M:309:TYR:HD2	2.35	0.45
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.96	0.45
2:M:335:THR:O	2:M:339:LEU:HG	2.16	0.45
2:M:672:VAL:HG23	2:M:673:LEU:H	1.81	0.45
2:M:833:LEU:HD12	2:M:837:ASP:OD2	2.17	0.45
2:M:889:HIS:CE1	2:M:970:GLY:HA3	2.52	0.45
3:N:3:LYS:HB3	3:N:3:LYS:HE2	1.77	0.45
3:N:153:LEU:HG	3:N:154:THR:N	2.31	0.45
3:N:320:ALA:O	3:N:335:LEU:HB3	2.16	0.45
3:N:438:ASP:HA	3:N:445:ARG:HH22	1.82	0.45
3:N:462:GLN:HB2	3:N:513:ILE:HG12	1.99	0.45
3:N:570:GLU:HB2	5:P:214:GLN:HE21	1.81	0.45
3:N:993:LEU:O	3:N:994:GLN:C	2.54	0.45
3:N:996:TRP:O	3:N:997:THR:C	2.55	0.45
3:N:1334:GLN:O	3:N:1337:GLU:HB2	2.17	0.45
3:N:1339:LYS:HB3	3:N:1343:ALA:CB	2.47	0.45
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.64	0.45
5:P:361:LEU:CG	5:P:362:SER:N	2.80	0.45
5:P:367:MET:HB2	5:P:371:LEU:HD11	1.98	0.45
5:P:386:VAL:HG11	5:P:394:ARG:H	1.82	0.45
2:C:162:ILE:HB	2:C:172:ILE:HB	1.98	0.45
2:C:257:VAL:O	2:C:261:ILE:HB	2.17	0.45
2:C:268:ASP:OD2	2:C:268:ASP:N	2.50	0.45
2:C:499:ALA:O	2:C:501:THR:N	2.50	0.45
2:C:578:VAL:CG2	2:C:579:VAL:HG12	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:583:LEU:O	2:C:587:VAL:HG23	2.17	0.45
2:C:596:TYR:CD1	2:C:596:TYR:N	2.84	0.45
2:C:674:VAL:HG21	2:C:871:LEU:CD1	2.45	0.45
2:C:674:VAL:HG11	2:C:992:MET:CB	2.46	0.45
2:C:910:LYS:HG2	2:C:913:GLU:CD	2.37	0.45
3:D:57:GLU:CG	3:D:64:LYS:HA	2.38	0.45
3:D:65:ARG:CB	5:F:375:LEU:O	2.64	0.45
3:D:460:ALA:O	3:D:463:GLN:HB2	2.17	0.45
3:D:531:ASP:O	3:D:532:GLY:C	2.55	0.45
3:D:567:ILE:CD1	5:F:140:ARG:HH22	2.29	0.45
3:D:812:ALA:HA	3:D:816:HIS:CB	2.26	0.45
3:D:1197:ARG:HG2	3:D:1198:TYR:CE2	2.52	0.45
3:D:1323:GLN:HG3	3:D:1324:PRO:HD2	1.98	0.45
3:D:1436:SER:O	3:D:1439:SER:N	2.49	0.45
3:D:1486:VAL:HG22	4:E:75:PHE:CA	2.45	0.45
5:F:175:HIS:C	5:F:178:ARG:HB2	2.37	0.45
1:K:74:ASP:OD1	1:K:74:ASP:C	2.55	0.45
2:M:23:VAL:CA	2:M:121:MET:HE1	2.42	0.45
2:M:99:GLN:HA	2:M:109:LYS:HA	1.98	0.45
2:M:164:PRO:HA	2:M:266:ARG:HA	1.98	0.45
2:M:395:LYS:HE2	2:M:403:SER:HB3	1.99	0.45
2:M:439:CYS:HB2	2:M:541:SER:N	2.32	0.45
2:M:446:GLY:O	2:M:448:ASN:N	2.50	0.45
2:M:446:GLY:O	2:M:449:ILE:N	2.47	0.45
2:M:469:THR:HG22	2:M:470:PRO:O	2.16	0.45
2:M:726:ILE:CG1	2:M:728:HIS:HB2	2.47	0.45
2:M:945:ARG:O	2:M:948:GLU:HG2	2.17	0.45
2:M:1091:GLU:O	2:M:1095:LEU:HG	2.17	0.45
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.52	0.45
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.52	0.45
3:N:85:VAL:HG21	3:N:89:ARG:NH2	2.31	0.45
3:N:261:LEU:HD11	3:N:290:PRO:O	2.17	0.45
3:N:586:ARG:O	3:N:587:ARG:HG2	2.17	0.45
3:N:623:VAL:HG12	3:N:625:TYR:N	2.32	0.45
3:N:970:LYS:O	3:N:971:LEU:C	2.53	0.45
3:N:1020:LEU:O	3:N:1021:TYR:C	2.54	0.45
3:N:1107:VAL:CG2	3:N:1219:GLU:HB3	2.46	0.45
3:N:1108:ARG:HE	3:N:1198:TYR:C	2.20	0.45
3:N:1223:ILE:O	3:N:1226:ALA:HB3	2.17	0.45
3:N:1345:GLU:CA	3:N:1348:LEU:HD12	2.35	0.45
5:P:285:GLU:HA	5:P:286:PRO:HD2	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:GLU:HB2	1:B:139:ASN:ND2	2.32	0.45
1:B:150:TYR:OH	1:B:168:ASP:HB3	2.16	0.45
2:C:176:VAL:HG11	2:C:182:VAL:HA	1.99	0.45
2:C:557:ARG:O	2:C:560:MET:HB2	2.17	0.45
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.99	0.45
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.99	0.45
3:D:119:SER:H	3:D:123:LEU:CB	2.29	0.45
3:D:154:THR:HG23	3:D:157:GLU:H	1.82	0.45
3:D:160:GLU:O	3:D:161:LEU:HD23	2.17	0.45
3:D:441:ARG:O	3:D:442:ASN:C	2.52	0.45
3:D:568:ARG:O	3:D:569:ASN:C	2.55	0.45
3:D:636:GLN:OE1	3:D:636:GLN:HA	2.16	0.45
3:D:671:LYS:HE2	3:D:675:ARG:CD	2.47	0.45
3:D:880:ILE:O	3:D:881:LEU:C	2.55	0.45
3:D:1149:LEU:CD2	3:D:1160:LEU:O	2.65	0.45
3:D:1151:ARG:C	3:D:1162:GLU:CB	2.80	0.45
3:D:1254:GLN:HG2	3:D:1255:GLY:N	2.31	0.45
4:E:19:LEU:O	4:E:20:THR:C	2.55	0.45
1:K:23:PHE:N	1:K:23:PHE:CD1	2.85	0.45
1:K:63:HIS:CD2	2:M:801:VAL:HA	2.52	0.45
1:K:73:GLU:HG2	1:K:130:ALA:HA	1.98	0.45
1:K:203:GLY:C	1:K:205:VAL:H	2.20	0.45
1:K:206:THR:HG23	1:K:207:PRO:HD2	1.99	0.45
1:L:19:GLU:HG2	1:L:203:GLY:CA	2.47	0.45
1:L:185:ARG:NH2	3:N:692:GLU:HG3	2.32	0.45
2:M:91:GLN:HB3	2:M:119:PRO:HA	1.99	0.45
2:M:148:PHE:N	2:M:148:PHE:CD1	2.84	0.45
2:M:759:THR:HA	2:M:786:LYS:O	2.17	0.45
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.98	0.45
3:N:411:THR:HG23	3:N:411:THR:O	2.17	0.45
3:N:554:LEU:HG	3:N:558:LEU:HD11	1.99	0.45
3:N:614:PHE:CD2	3:N:617:ASN:ND2	2.85	0.45
3:N:796:ARG:HD2	3:N:862:ASP:OD2	2.16	0.45
3:N:1153:VAL:HG12	3:N:1155:VAL:HG23	1.99	0.45
3:N:1267:ARG:NE	3:N:1271:LYS:NZ	2.63	0.45
3:N:1405:GLU:OE2	3:N:1407:LEU:HG	2.16	0.45
3:N:1487:VAL:O	4:O:73:LEU:HD12	2.17	0.45
4:O:71:GLY:C	4:O:73:LEU:N	2.68	0.45
5:P:104:ARG:HB2	5:P:108:GLU:OE2	2.16	0.45
5:P:241:TRP:O	5:P:244:ARG:HB2	2.16	0.45
5:P:282:LEU:O	5:P:284:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:370:LYS:O	5:P:374:GLY:N	2.49	0.45
1:A:43:ILE:HG23	1:A:47:SER:HB2	1.99	0.45
1:A:102:LYS:HA	1:A:138:LEU:O	2.17	0.45
1:B:13:VAL:HG23	1:B:22:GLU:O	2.17	0.45
2:C:63:GLY:H	2:C:103:LYS:HA	1.81	0.45
2:C:274:ARG:CZ	2:C:285:LEU:HD23	2.47	0.45
2:C:477:GLY:O	2:C:508:ILE:HG13	2.16	0.45
2:C:497:ALA:O	2:C:532:MET:HG3	2.16	0.45
2:C:650:ARG:O	2:C:653:ASP:OD2	2.34	0.45
2:C:681:GLY:O	2:C:684:PHE:HB2	2.16	0.45
3:D:113:GLY:N	3:D:124:GLU:OE1	2.50	0.45
3:D:280:ALA:HB1	3:D:282:TYR:OH	2.16	0.45
3:D:428:LYS:HG2	3:D:429:SER:N	2.31	0.45
3:D:614:PHE:HA	3:D:617:ASN:HD22	1.82	0.45
3:D:881:LEU:O	3:D:882:PHE:C	2.55	0.45
3:D:958:GLU:OE2	3:D:961:LYS:CG	2.65	0.45
3:D:1000:THR:CG2	3:D:1036:ARG:HD2	2.46	0.45
3:D:1087:ARG:NH2	3:D:1236:LEU:O	2.50	0.45
3:D:1305:LEU:N	3:D:1305:LEU:CD2	2.79	0.45
5:F:288:TYR:HB3	5:F:301:ALA:HB1	1.99	0.45
1:K:54:THR:HG21	1:K:143:ARG:HD3	1.98	0.45
1:K:206:THR:HG22	1:K:208:LEU:HB3	1.99	0.45
1:L:18:ARG:NH1	1:L:88:ARG:NH2	2.59	0.45
1:L:218:LEU:O	1:L:221:HIS:HB2	2.17	0.45
2:M:136:ILE:CD1	2:M:392:SER:HA	2.42	0.45
2:M:198:ARG:NE	2:M:231:PRO:HG3	2.32	0.45
2:M:365:ASP:C	2:M:367:LEU:H	2.19	0.45
2:M:572:ILE:HD12	2:M:701:THR:HB	1.98	0.45
2:M:720:GLU:H	2:M:720:GLU:HG3	1.50	0.45
2:M:835:VAL:O	2:M:835:VAL:HG13	2.16	0.45
2:M:984:GLU:CG	3:N:944:THR:O	2.65	0.45
3:N:23:TYR:CZ	3:N:89:ARG:NH1	2.85	0.45
3:N:102:ILE:HD12	3:N:579:ASP:HB3	1.98	0.45
3:N:660:LYS:HD3	3:N:663:GLU:CD	2.37	0.45
3:N:793:THR:CG2	3:N:906:GLN:HG2	2.47	0.45
3:N:797:LYS:HA	3:N:828:LYS:O	2.16	0.45
3:N:828:LYS:HA	3:N:835:SER:OG	2.17	0.45
3:N:834:THR:HA	3:N:838:ARG:HD2	1.98	0.45
3:N:1465:ASN:CB	3:N:1473:PRO:HD3	2.47	0.45
4:O:24:ALA:O	4:O:27:ALA:N	2.50	0.45
5:P:163:LEU:O	5:P:166:LEU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:350:LEU:C	5:P:352:GLU:H	2.19	0.45
5:P:405:LEU:HB2	5:P:406:ARG:H	1.64	0.45
5:P:422:LEU:HD23	5:P:422:LEU:H	1.81	0.45
1:A:9:PRO:HB2	1:A:25:LEU:CD1	2.46	0.45
1:B:156:HIS:C	1:B:158:ILE:H	2.19	0.45
1:B:233:VAL:C	1:B:235:ALA:H	2.20	0.45
2:C:5:ARG:HA	2:C:902:ILE:HB	1.99	0.45
2:C:108:ILE:CG2	2:C:368:THR:HG21	2.47	0.45
2:C:141:HIS:CD2	2:C:334:ARG:CG	2.99	0.45
2:C:327:HIS:CE1	2:C:329:GLY:HA3	2.52	0.45
2:C:428:ARG:NE	2:C:451:LEU:HD21	2.31	0.45
2:C:508:ILE:CD1	2:C:526:PRO:HB3	2.47	0.45
2:C:842:ARG:NH2	2:C:887:GLU:OE2	2.46	0.45
2:C:1031:ARG:CA	3:D:622:ARG:NH1	2.80	0.45
2:C:1067:TYR:HB2	5:F:341:PRO:CB	2.47	0.45
2:C:1092:LEU:O	2:C:1095:LEU:HB2	2.17	0.45
3:D:5:VAL:O	3:D:6:ARG:HG3	2.17	0.45
3:D:12:LEU:HD23	3:D:1451:ALA:HB1	1.99	0.45
3:D:288:MET:HG3	3:D:305:ALA:HB1	1.99	0.45
3:D:480:GLU:O	3:D:484:PRO:HD2	2.17	0.45
3:D:630:VAL:CG1	3:D:631:ILE:N	2.79	0.45
3:D:936:TYR:HE2	3:D:940:THR:HG21	1.82	0.45
3:D:1091:SER:O	3:D:1092:GLY:C	2.55	0.45
3:D:1180:ALA:O	3:D:1181:GLY:C	2.55	0.45
3:D:1378:TYR:CE2	3:D:1394:VAL:HG22	2.52	0.45
5:F:204:GLY:C	5:F:206:GLY:N	2.69	0.45
5:F:245:GLN:HA	5:F:245:GLN:NE2	2.26	0.45
1:K:44:LEU:HD21	1:K:214:ALA:HB2	1.99	0.45
1:L:89:PHE:CD2	1:L:94:LEU:CB	3.00	0.45
1:L:208:LEU:O	1:L:211:LEU:HB3	2.16	0.45
2:M:56:GLU:HB3	2:M:359:MET:SD	2.57	0.45
2:M:205:GLU:N	2:M:209:ARG:HH11	2.15	0.45
2:M:353:ARG:HG2	2:M:353:ARG:HH11	1.82	0.45
2:M:361:MET:SD	2:M:361:MET:N	2.73	0.45
2:M:503:LEU:HD11	2:M:506:ASN:O	2.17	0.45
2:M:522:VAL:CG1	2:M:523:ILE:N	2.80	0.45
2:M:877:PRO:HD3	3:N:1023:MET:HE1	1.99	0.45
2:M:1098:ASP:HB2	3:N:17:LYS:NZ	2.31	0.45
3:N:152:LEU:HD12	3:N:153:LEU:H	1.82	0.45
3:N:217:LYS:HD3	3:N:262:LYS:NZ	2.31	0.45
3:N:355:VAL:HG11	3:N:385:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:357:GLU:CD	3:N:357:GLU:N	2.68	0.45
3:N:411:THR:H	3:N:437:VAL:HG21	1.82	0.45
3:N:441:ARG:HG3	3:N:443:VAL:HG21	1.96	0.45
3:N:596:SER:C	3:N:598:ARG:H	2.20	0.45
3:N:613:ARG:O	3:N:614:PHE:C	2.55	0.45
3:N:671:LYS:HE2	3:N:675:ARG:CG	2.47	0.45
3:N:750:PRO:HG2	3:N:756:GLN:HE22	1.82	0.45
3:N:795:VAL:CG1	3:N:876:SER:HB3	2.47	0.45
3:N:1129:THR:HG22	3:N:1130:ARG:N	2.32	0.45
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.32	0.45
5:P:250:ALA:O	5:P:253:ASP:HB2	2.17	0.45
5:P:379:ARG:HH11	5:P:379:ARG:CG	2.30	0.45
1:A:9:PRO:HA	1:A:27:PRO:HD2	1.99	0.44
1:A:11:PHE:O	1:B:229:GLN:CB	2.63	0.44
1:A:18:ARG:CD	1:A:88:ARG:NH2	2.80	0.44
1:B:72:LYS:HD3	1:B:73:GLU:N	2.32	0.44
1:B:184:THR:HG22	1:B:192:LEU:O	2.17	0.44
2:C:18:LEU:O	2:C:21:ILE:CD1	2.65	0.44
2:C:403:SER:O	2:C:407:LYS:HG3	2.18	0.44
2:C:439:CYS:SG	2:C:442:GLU:HB2	2.57	0.44
2:C:512:ARG:NH1	2:C:524:VAL:HA	2.28	0.44
2:C:600:ASP:CB	2:C:650:ARG:HA	2.41	0.44
2:C:671:ASN:C	2:C:672:VAL:HG12	2.37	0.44
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.98	0.44
2:C:748:GLU:HA	2:C:799:ILE:HG22	1.98	0.44
2:C:953:VAL:HA	2:C:965:GLU:OE2	2.16	0.44
3:D:175:VAL:CG1	3:D:193:PRO:HD2	2.46	0.44
3:D:214:GLU:HG2	3:D:342:PRO:HA	2.00	0.44
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.33	0.44
3:D:1171:VAL:HG12	3:D:1175:ILE:CD1	2.43	0.44
3:D:1173:LEU:HG	3:D:1174:LEU:N	2.31	0.44
3:D:1381:VAL:CG1	3:D:1389:LEU:O	2.65	0.44
5:F:77:THR:O	5:F:79:ASP:N	2.48	0.44
5:F:85:LEU:HD23	5:F:85:LEU:HA	1.73	0.44
5:F:355:GLU:CB	5:F:358:LEU:HD23	2.47	0.44
2:M:235:LEU:O	2:M:238:LEU:HB2	2.17	0.44
2:M:424:GLY:O	2:M:425:PHE:C	2.55	0.44
2:M:504:GLU:CG	2:M:507:ARG:HB2	2.45	0.44
2:M:709:GLU:HA	2:M:823:VAL:O	2.17	0.44
2:M:710:ILE:HG22	2:M:823:VAL:HB	1.98	0.44
2:M:946:ARG:O	2:M:949:LYS:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1101:THR:O	2:M:1102:LEU:HD23	2.17	0.44
3:N:130:SER:CA	3:N:568:ARG:NH2	2.80	0.44
3:N:223:LEU:HG	3:N:224:ARG:H	1.82	0.44
3:N:881:LEU:HG	3:N:885:ILE:HD11	2.00	0.44
3:N:970:LYS:HE2	3:N:974:ILE:HG12	2.00	0.44
3:N:984:THR:N	3:N:987:GLU:OE2	2.25	0.44
3:N:1134:LEU:HD12	3:N:1135:ARG:H	1.83	0.44
3:N:1205:TYR:CD2	3:N:1215:VAL:HG11	2.50	0.44
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.30	0.44
4:O:25:LYS:O	4:O:28:GLN:HB2	2.17	0.44
5:P:111:GLU:HG3	5:P:114:LYS:CE	2.47	0.44
5:P:159:ILE:O	5:P:163:LEU:HG	2.17	0.44
5:P:323:ASP:OD1	5:P:323:ASP:C	2.55	0.44
5:P:411:HIS:CE1	5:P:412:GLU:OE2	2.70	0.44
1:A:31:GLY:O	1:A:33:GLY:N	2.50	0.44
1:B:104:GLU:HA	1:B:137:ARG:HA	1.98	0.44
2:C:45:GLN:O	2:C:48:PHE:HB2	2.17	0.44
2:C:61:LYS:O	2:C:103:LYS:HB2	2.17	0.44
2:C:63:GLY:H	2:C:103:LYS:CA	2.28	0.44
2:C:95:TYR:CE2	2:C:114:PHE:HB3	2.53	0.44
2:C:98:LEU:HD11	2:C:113:VAL:HG21	1.99	0.44
2:C:164:PRO:HG3	2:C:170:PRO:HD2	1.98	0.44
2:C:176:VAL:HG12	2:C:182:VAL:CA	2.48	0.44
2:C:293:PHE:HD1	2:C:294:GLU:CG	2.30	0.44
2:C:397:GLU:OE2	2:C:632:ASN:N	2.50	0.44
2:C:405:ARG:HG3	2:C:543:ASN:OD1	2.17	0.44
2:C:861:LEU:HB2	2:C:863:ASP:OD1	2.17	0.44
2:C:914:ILE:H	2:C:914:ILE:CD1	2.30	0.44
3:D:29:PRO:O	3:D:30:GLU:C	2.55	0.44
3:D:30:GLU:CG	3:D:40:GLU:HG2	2.47	0.44
3:D:168:THR:CB	3:D:206:ARG:NH1	2.80	0.44
3:D:186:VAL:CG1	3:D:187:LYS:H	2.29	0.44
3:D:318:ARG:HG2	3:D:319:ALA:H	1.78	0.44
3:D:591:VAL:HG21	3:D:597:ASP:HA	1.99	0.44
3:D:821:VAL:HG22	3:D:840:LYS:HZ2	1.81	0.44
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.17	0.44
3:D:1324:PRO:C	3:D:1325:LEU:HD23	2.37	0.44
3:D:1376:MET:HE2	3:D:1421:LEU:HA	1.98	0.44
3:D:1390:LEU:HD12	3:D:1390:LEU:O	2.17	0.44
5:F:101:GLU:HG2	5:F:105:LYS:HE3	2.00	0.44
5:F:102:LEU:HD23	5:F:187:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:203:THR:CG2	5:F:204:GLY:N	2.80	0.44
1:L:54:THR:HB	1:L:143:ARG:HD2	1.99	0.44
2:M:47:ALA:HA	2:M:50:GLU:OE2	2.17	0.44
2:M:175:GLU:O	2:M:176:VAL:HG13	2.18	0.44
2:M:276:LYS:O	2:M:280:LYS:HG3	2.17	0.44
2:M:443:THR:O	2:M:559:LEU:HD11	2.18	0.44
2:M:657:ASP:CG	2:M:664:GLY:H	2.21	0.44
2:M:707:ARG:HG2	2:M:708:TYR:N	2.32	0.44
2:M:1101:THR:C	2:M:1102:LEU:HD23	2.38	0.44
3:N:172:PRO:HB2	3:N:175:VAL:CG2	2.48	0.44
3:N:253:ALA:N	3:N:301:GLY:CA	2.74	0.44
3:N:787:LEU:HD12	3:N:787:LEU:HA	1.73	0.44
3:N:841:TYR:HB3	3:N:843:PHE:CZ	2.52	0.44
3:N:847:ASP:OD1	3:N:848:GLU:N	2.46	0.44
3:N:1018:ASN:OD1	3:N:1018:ASN:C	2.56	0.44
3:N:1127:GLU:HG3	3:N:1128:VAL:N	2.29	0.44
3:N:1149:LEU:HD23	3:N:1161:GLU:C	2.37	0.44
3:N:1171:VAL:CA	3:N:1174:LEU:HD12	2.32	0.44
3:N:1345:GLU:O	3:N:1346:ARG:C	2.55	0.44
3:N:1462:LEU:O	3:N:1463:LYS:C	2.54	0.44
5:P:361:LEU:HG	5:P:362:SER:N	2.31	0.44
2:C:38:LYS:CG	2:C:39:ARG:N	2.74	0.44
2:C:178:PRO:C	2:C:180:GLY:N	2.69	0.44
2:C:385:PHE:CD1	2:C:389:SER:HB2	2.53	0.44
2:C:499:ALA:C	2:C:501:THR:H	2.20	0.44
2:C:626:ARG:HG3	2:C:626:ARG:NH1	2.26	0.44
2:C:683:ASN:HD22	2:C:683:ASN:N	2.11	0.44
3:D:112:ILE:HG13	3:D:124:GLU:OE1	2.17	0.44
3:D:325:GLU:OE2	3:D:332:TYR:HB3	2.17	0.44
3:D:680:GLN:HA	3:D:683:ILE:HG13	1.99	0.44
3:D:853:VAL:HG11	3:D:860:LEU:CD2	2.47	0.44
3:D:930:LEU:O	3:D:931:LEU:C	2.54	0.44
3:D:1383:ASP:HA	3:D:1384:PRO:HD2	1.82	0.44
1:K:25:LEU:HD21	1:L:224:TYR:CB	2.47	0.44
2:M:69:LEU:HD22	2:M:97:ARG:HD3	2.00	0.44
2:M:157:ARG:CG	2:M:314:THR:HG22	2.47	0.44
2:M:385:PHE:O	2:M:389:SER:HB2	2.17	0.44
2:M:669:GLY:N	2:M:993:PHE:CZ	2.86	0.44
2:M:719:PRO:CB	2:M:820:ARG:NH1	2.79	0.44
2:M:731:GLU:HA	2:M:734:LEU:HD12	2.00	0.44
2:M:732:ALA:HA	2:M:735:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:867:VAL:HG23	2:M:868:ASP:N	2.31	0.44
2:M:1021:LEU:HD12	2:M:1022:GLY:H	1.82	0.44
3:N:90:MET:HG2	3:N:521:PRO:HD3	1.98	0.44
3:N:284:LEU:HD12	3:N:290:PRO:CB	2.48	0.44
3:N:485:SER:O	3:N:489:ARG:NH1	2.50	0.44
3:N:527:MET:SD	3:N:537:THR:CG2	3.05	0.44
3:N:732:VAL:C	3:N:734:GLU:H	2.19	0.44
3:N:796:ARG:HG3	3:N:861:GLN:O	2.17	0.44
3:N:819:GLY:CA	3:N:822:ALA:HB3	2.45	0.44
3:N:1274:ILE:HG22	3:N:1324:PRO:HA	1.98	0.44
3:N:1344:VAL:CG1	3:N:1345:GLU:N	2.80	0.44
3:N:1404:ASN:HA	3:N:1409:ALA:H	1.82	0.44
5:P:250:ALA:O	5:P:251:ILE:C	2.56	0.44
5:P:362:SER:O	5:P:363:GLU:C	2.55	0.44
5:P:382:THR:HG23	5:P:397:ILE:HB	1.99	0.44
1:B:61:VAL:HG13	1:B:163:ASN:HB3	2.00	0.44
2:C:136:ILE:HD13	2:C:136:ILE:HA	1.84	0.44
2:C:162:ILE:C	2:C:163:ILE:HG13	2.38	0.44
2:C:546:LEU:CD2	2:C:583:LEU:HB2	2.47	0.44
2:C:807:ARG:C	2:C:809:GLY:H	2.19	0.44
2:C:1096:ALA:C	2:C:1097:LEU:HG	2.37	0.44
3:D:1072:ILE:H	3:D:1072:ILE:HG13	1.45	0.44
4:E:19:LEU:HD12	4:E:19:LEU:C	2.38	0.44
5:F:159:ILE:HG22	5:F:163:LEU:HD11	2.00	0.44
5:F:296:GLY:C	5:F:299:TRP:HD1	2.21	0.44
5:F:354:LEU:HD23	5:F:418:LEU:HD23	1.98	0.44
1:K:9:PRO:HB2	1:K:25:LEU:CD1	2.46	0.44
1:K:212:ASN:O	1:K:213:GLN:C	2.55	0.44
1:L:185:ARG:HH22	3:N:692:GLU:CG	2.30	0.44
2:M:87:ASP:HA	2:M:131:GLY:CA	2.47	0.44
2:M:140:ILE:HA	2:M:332:ARG:O	2.17	0.44
2:M:240:THR:O	2:M:242:LEU:N	2.51	0.44
2:M:310:LEU:O	2:M:310:LEU:HD12	2.17	0.44
2:M:336:VAL:O	2:M:337:GLY:C	2.56	0.44
2:M:410:ILE:HG22	2:M:411:SER:N	2.31	0.44
2:M:599:GLU:HG3	2:M:600:ASP:H	1.80	0.44
2:M:930:LYS:HA	2:M:930:LYS:HD3	1.64	0.44
3:N:148:GLU:C	3:N:149:LYS:HD3	2.36	0.44
3:N:444:VAL:HG23	3:N:444:VAL:O	2.17	0.44
3:N:545:ARG:CZ	5:P:257:THR:HA	2.48	0.44
3:N:563:PRO:CD	3:N:566:ILE:HD11	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:563:PRO:C	3:N:567:ILE:HG12	2.38	0.44
3:N:664:LYS:HB2	3:N:666:ILE:CD1	2.47	0.44
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.47	0.44
3:N:885:ILE:H	3:N:885:ILE:HG13	1.65	0.44
3:N:1078:ARG:O	3:N:1080:GLY:N	2.50	0.44
3:N:1286:THR:HB	3:N:1289:LYS:O	2.17	0.44
3:N:1353:GLN:HB3	3:N:1357:ARG:CZ	2.47	0.44
3:N:1496:GLU:OE2	3:N:1499:ARG:NE	2.51	0.44
5:P:305:GLU:CG	5:P:309:LYS:HE3	2.38	0.44
5:P:346:THR:O	5:P:349:LEU:N	2.50	0.44
5:P:382:THR:HG22	5:P:394:ARG:HB2	1.98	0.44
5:P:397:ILE:HA	5:P:400:ILE:HD12	1.98	0.44
1:B:98:THR:HA	1:B:142:VAL:O	2.17	0.44
1:B:101:LEU:HB3	1:B:140:MET:CE	2.46	0.44
1:B:215:VAL:CG2	1:B:216:GLU:H	2.30	0.44
1:B:218:LEU:O	1:B:221:HIS:N	2.50	0.44
2:C:227:PHE:CA	2:C:237:ARG:HH12	2.22	0.44
2:C:674:VAL:CB	2:C:869:VAL:HG13	2.48	0.44
2:C:843:HIS:C	2:C:845:ASN:H	2.21	0.44
3:D:186:VAL:HA	3:D:200:ASP:OD2	2.17	0.44
3:D:223:LEU:N	3:D:333:LEU:O	2.47	0.44
3:D:368:VAL:HB	3:D:377:VAL:CB	2.48	0.44
3:D:417:PRO:HG2	3:D:428:LYS:CE	2.48	0.44
3:D:431:VAL:HG12	3:D:432:TYR:N	2.33	0.44
3:D:520:LEU:HG	3:D:524:LEU:HB2	1.99	0.44
3:D:564:GLU:C	3:D:564:GLU:CD	2.76	0.44
3:D:1115:THR:O	3:D:1151:ARG:NH2	2.50	0.44
3:D:1372:VAL:HG13	3:D:1375:MET:HE3	1.98	0.44
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	2.18	0.44
4:E:49:GLN:HG3	4:E:54:LEU:CD2	2.47	0.44
5:F:222:ARG:O	5:F:225:GLU:HB3	2.17	0.44
5:F:401:GLU:HG2	5:F:405:LEU:HD11	1.97	0.44
2:M:79:PRO:HG2	2:M:82:GLU:CB	2.47	0.44
2:M:102:HIS:NE2	2:M:108:ILE:CD1	2.80	0.44
2:M:369:PRO:HB2	2:M:371:LYS:HG2	2.00	0.44
2:M:396:ASP:HA	2:M:633:GLN:NE2	2.32	0.44
2:M:457:ALA:N	2:M:540:PHE:O	2.50	0.44
2:M:532:MET:HG2	2:M:533:ASP:N	2.33	0.44
2:M:628:PHE:HA	2:M:638:ASP:HB3	1.99	0.44
3:N:28:LYS:HG2	3:N:42:ASP:HB3	1.98	0.44
3:N:211:VAL:HG22	3:N:387:LEU:HG	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:292:VAL:HG23	3:N:293:VAL:N	2.23	0.44
3:N:408:GLU:CB	3:N:421:LEU:O	2.64	0.44
3:N:416:ALA:HB3	3:N:432:TYR:CD2	2.51	0.44
3:N:502:PHE:O	3:N:506:GLY:N	2.51	0.44
3:N:658:LEU:HD23	3:N:661:MET:CE	2.46	0.44
3:N:792:ILE:HD12	3:N:881:LEU:HD23	1.99	0.44
3:N:804:LEU:O	3:N:805:GLU:HG2	2.17	0.44
3:N:819:GLY:O	3:N:824:ASN:ND2	2.51	0.44
3:N:878:GLY:O	3:N:879:ARG:C	2.56	0.44
3:N:1048:PRO:C	3:N:1050:GLY:N	2.70	0.44
3:N:1310:ARG:HD3	3:N:1327:ARG:HD3	2.00	0.44
4:O:81:PRO:O	4:O:85:LEU:CD2	2.66	0.44
1:A:14:ARG:NH1	1:A:14:ARG:HG2	2.33	0.44
1:A:24:VAL:CG1	1:A:25:LEU:N	2.80	0.44
1:A:205:VAL:HG12	1:A:206:THR:N	2.32	0.44
1:B:106:PRO:HA	1:B:133:GLU:CA	2.38	0.44
1:B:179:PHE:HB2	1:B:196:THR:O	2.18	0.44
2:C:191:PHE:HD2	2:C:195:LEU:CD1	2.29	0.44
2:C:322:VAL:HG12	2:C:323:ASP:N	2.31	0.44
2:C:807:ARG:HB2	2:C:807:ARG:NH1	2.33	0.44
2:C:1039:ALA:O	2:C:1042:ALA:HB3	2.17	0.44
3:D:55:ASP:HA	3:D:83:SER:H	1.83	0.44
3:D:108:VAL:HA	3:D:110:SER:N	2.32	0.44
3:D:465:LEU:HD13	3:D:509:PRO:O	2.18	0.44
3:D:732:VAL:C	3:D:734:GLU:N	2.70	0.44
3:D:832:ARG:C	3:D:834:THR:H	2.19	0.44
3:D:937:TYR:O	3:D:938:GLY:C	2.56	0.44
3:D:984:THR:HG22	3:D:987:GLU:CD	2.38	0.44
3:D:1082:ALA:O	3:D:1083:ASP:C	2.56	0.44
3:D:1084:THR:O	3:D:1085:ALA:C	2.56	0.44
3:D:1149:LEU:HD21	3:D:1153:VAL:HG23	1.99	0.44
3:D:1258:ARG:NH2	3:D:1351:GLU:CG	2.81	0.44
3:D:1424:VAL:O	3:D:1425:THR:C	2.55	0.44
5:F:117:SER:N	5:F:127:ILE:CD1	2.81	0.44
5:F:307:THR:O	5:F:311:ALA:N	2.48	0.44
1:K:23:PHE:CD2	1:K:211:LEU:HD23	2.53	0.44
1:K:29:GLU:O	1:K:32:PHE:HB2	2.17	0.44
1:K:65:PHE:CD1	1:K:65:PHE:N	2.85	0.44
1:K:183:ASP:HA	1:K:192:LEU:O	2.18	0.44
1:L:5:LYS:NZ	1:L:189:ARG:NE	2.66	0.44
1:L:96:THR:HB	1:L:145:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:167:VAL:CG1	1:L:168:ASP:N	2.80	0.44
1:L:241:GLU:N	1:L:242:PRO:CD	2.73	0.44
2:M:267:TYR:HB3	2:M:270:GLY:CA	2.47	0.44
2:M:283:ILE:CG2	2:M:284:ARG:N	2.59	0.44
2:M:540:PHE:HB3	2:M:544:THR:HG21	2.00	0.44
2:M:1008:ARG:HD2	2:M:1028:GLY:C	2.38	0.44
3:N:161:LEU:N	3:N:161:LEU:HD23	2.31	0.44
3:N:227:LEU:HD12	3:N:331:VAL:HG23	2.00	0.44
3:N:900:ILE:HG22	3:N:901:GLN:N	2.32	0.44
3:N:1405:GLU:O	3:N:1410:GLU:CA	2.65	0.44
3:N:1492:LEU:HD23	3:N:1492:LEU:HA	1.86	0.44
5:P:229:TYR:O	5:P:231:ARG:N	2.51	0.44
5:P:238:TYR:CG	5:P:239:ALA:N	2.82	0.44
5:P:300:ASP:HB3	5:P:302:LYS:CE	2.48	0.44
1:A:26:GLU:OE1	1:A:194:LYS:HE3	2.17	0.44
2:C:115:LEU:CB	2:C:375:SER:HB3	2.42	0.44
2:C:139:GLN:C	2:C:333:ILE:HD12	2.38	0.44
2:C:148:PHE:N	2:C:148:PHE:CD1	2.86	0.44
2:C:154:ARG:C	2:C:156:GLY:H	2.21	0.44
2:C:233:GLU:OE1	2:C:237:ARG:NH1	2.50	0.44
2:C:347:GLY:HA3	2:C:381:ALA:HB2	2.00	0.44
2:C:610:ARG:NH1	2:C:610:ARG:HG3	2.32	0.44
2:C:720:GLU:HB3	2:C:760:SER:CB	2.41	0.44
2:C:774:LEU:HA	2:C:777:ILE:CD1	2.44	0.44
2:C:874:LEU:O	2:C:877:PRO:HD2	2.17	0.44
2:C:984:GLU:O	3:D:946:GLY:HA3	2.18	0.44
2:C:1068:GLU:O	2:C:1071:ILE:HB	2.17	0.44
3:D:139:GLY:O	3:D:147:VAL:CB	2.53	0.44
3:D:563:PRO:C	3:D:565:ILE:N	2.71	0.44
3:D:660:LYS:CG	3:D:694:VAL:HG22	2.27	0.44
3:D:881:LEU:O	3:D:884:ARG:HB3	2.18	0.44
3:D:884:ARG:HG3	3:D:888:GLU:OE2	2.18	0.44
3:D:890:VAL:HG23	3:D:892:ASP:H	1.83	0.44
3:D:910:SER:HG	3:D:911:LEU:H	1.65	0.44
3:D:934:LEU:HG	3:D:934:LEU:H	1.55	0.44
3:D:1068:LEU:O	3:D:1069:GLU:C	2.56	0.44
3:D:1155:VAL:O	3:D:1156:LEU:C	2.55	0.44
3:D:1160:LEU:HD22	3:D:1164:ARG:CD	2.47	0.44
3:D:1253:THR:HG21	3:D:1258:ARG:N	2.32	0.44
3:D:1397:LYS:CB	3:D:1398:TRP:HZ3	2.31	0.44
4:E:39:VAL:HG12	4:E:72:ARG:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:185:GLN:O	5:F:188:ILE:HB	2.17	0.44
5:F:213:ILE:HG13	5:F:213:ILE:H	1.59	0.44
2:M:52:PHE:HB3	2:M:53:PRO:HA	1.99	0.44
2:M:136:ILE:HG22	2:M:336:VAL:HG22	1.99	0.44
2:M:194:VAL:HG13	2:M:197:LEU:HD12	1.99	0.44
2:M:208:ALA:HB1	2:M:218:VAL:HG21	1.99	0.44
2:M:239:PHE:HE2	2:M:250:ARG:HD2	1.82	0.44
2:M:462:ASP:C	2:M:464:LEU:H	2.21	0.44
2:M:473:ARG:NE	2:M:482:GLU:OE1	2.41	0.44
2:M:564:MET:O	2:M:567:GLN:N	2.51	0.44
2:M:640:ARG:O	2:M:657:ASP:N	2.49	0.44
2:M:807:ARG:HB3	2:M:807:ARG:CZ	2.47	0.44
2:M:1019:GLN:O	2:M:1020:PRO:C	2.55	0.44
3:N:207:PHE:CD1	3:N:391:ALA:HB3	2.53	0.44
3:N:266:GLU:OE1	3:N:314:PRO:HA	2.17	0.44
3:N:400:VAL:HG22	3:N:402:PRO:CD	2.46	0.44
3:N:443:VAL:HG12	3:N:444:VAL:N	2.32	0.44
3:N:553:ARG:HD3	5:P:215:GLU:OE1	2.18	0.44
3:N:778:LEU:HD13	3:N:778:LEU:HA	1.82	0.44
3:N:960:LYS:O	3:N:961:LYS:C	2.56	0.44
3:N:984:THR:HG23	3:N:987:GLU:H	1.83	0.44
3:N:1172:HIS:O	3:N:1173:LEU:C	2.55	0.44
3:N:1191:PRO:C	3:N:1193:THR:N	2.70	0.44
3:N:1405:GLU:CD	3:N:1406:ARG:HG3	2.37	0.44
5:P:118:GLU:HG2	5:P:119:ILE:N	2.30	0.44
5:P:373:LYS:HB3	5:P:373:LYS:HZ1	1.77	0.44
1:A:69:PRO:HA	2:C:607:ASP:CG	2.39	0.44
2:C:280:LYS:O	2:C:309:TYR:CZ	2.71	0.44
2:C:302:VAL:C	2:C:304:LEU:N	2.71	0.44
2:C:554:ASP:OD2	2:C:556:ASN:HB2	2.17	0.44
2:C:575:GLN:HE21	2:C:670:GLN:HG2	1.81	0.44
2:C:580:MET:O	2:C:902:ILE:HA	2.17	0.44
2:C:757:GLY:HA2	2:C:789:SER:CB	2.48	0.44
2:C:906:PHE:HZ	3:D:1070:TYR:CG	2.36	0.44
3:D:125:GLN:NE2	3:D:587:ARG:HE	2.12	0.44
3:D:127:LEU:HD23	3:D:128:TYR:HA	2.00	0.44
3:D:245:LEU:N	3:D:309:GLY:N	2.61	0.44
3:D:258:VAL:O	3:D:271:VAL:O	2.35	0.44
3:D:274:ARG:NE	3:D:279:VAL:CG1	2.80	0.44
3:D:372:ASP:C	3:D:374:GLU:N	2.69	0.44
3:D:697:GLY:HA3	4:E:59:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:811:GLU:CB	3:D:815:ALA:HB3	2.47	0.44
3:D:871:LYS:NZ	3:D:897:TRP:CH2	2.85	0.44
3:D:1122:LEU:C	3:D:1135:ARG:HG3	2.37	0.44
3:D:1280:VAL:HA	3:D:1317:ASP:O	2.18	0.44
4:E:6:ILE:O	4:E:10:PHE:CD1	2.70	0.44
5:F:82:ARG:HA	5:F:85:LEU:HB2	1.99	0.44
5:F:302:LYS:HD2	5:F:302:LYS:C	2.38	0.44
5:F:354:LEU:HD23	5:F:418:LEU:CD2	2.48	0.44
5:F:361:LEU:CG	5:F:362:SER:H	2.31	0.44
1:K:11:PHE:HD2	1:L:227:ASN:C	2.20	0.44
1:K:57:TYR:CE1	1:K:163:ASN:HB2	2.52	0.44
1:L:185:ARG:HH22	3:N:692:GLU:HG3	1.83	0.44
2:M:193:LEU:HD11	2:M:303:PHE:HD2	1.82	0.44
2:M:206:THR:HA	2:M:210:GLU:OE2	2.18	0.44
2:M:333:ILE:HG23	2:M:333:ILE:O	2.18	0.44
2:M:727:PRO:HD2	2:M:787:ASP:HB2	1.99	0.44
2:M:833:LEU:HD12	2:M:833:LEU:HA	1.79	0.44
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.80	0.44
2:M:1101:THR:HA	3:N:5:VAL:HG11	1.99	0.44
3:N:362:GLU:O	3:N:365:ASP:HB2	2.17	0.44
3:N:521:PRO:HB2	3:N:524:LEU:HG	2.00	0.44
3:N:799:LYS:HB2	3:N:826:PRO:CG	2.47	0.44
3:N:1033:GLN:H	3:N:1033:GLN:NE2	2.13	0.44
5:P:233:PHE:O	5:P:233:PHE:HD1	2.01	0.44
1:A:1:MET:CA	1:A:6:LEU:HD22	2.48	0.44
1:A:139:ASN:O	1:A:140:MET:HB3	2.17	0.44
1:B:55:SER:HB3	1:B:166:PRO:HA	2.00	0.44
2:C:60:GLY:C	2:C:62:GLY:N	2.68	0.44
2:C:260:LEU:CB	2:C:291:ALA:HB2	2.47	0.44
2:C:336:VAL:N	2:C:339:LEU:HD12	2.32	0.44
2:C:589:ARG:O	2:C:592:LEU:HD23	2.18	0.44
2:C:626:ARG:CG	2:C:626:ARG:NH1	2.81	0.44
2:C:832:LYS:HG2	2:C:833:LEU:N	2.33	0.44
2:C:853:LEU:HA	2:C:854:PRO:HD3	1.80	0.44
2:C:984:GLU:CD	3:D:791:TYR:HE2	2.21	0.44
2:C:1104:GLU:C	2:C:1106:ASP:N	2.71	0.44
3:D:35:ARG:HG3	3:D:36:THR:OG1	2.18	0.44
3:D:36:THR:CG2	3:D:38:LYS:HE2	2.48	0.44
3:D:99:ALA:HB1	3:D:578:VAL:HG21	2.00	0.44
3:D:100:ALA:CB	3:D:128:TYR:CE2	3.00	0.44
3:D:800:LYS:HZ2	3:D:825:ALA:HA	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:871:LYS:HG2	3:D:873:LEU:HD21	1.99	0.44
3:D:920:LEU:O	3:D:921:ARG:C	2.57	0.44
3:D:931:LEU:O	3:D:934:LEU:HB2	2.17	0.44
3:D:1059:SER:HB2	3:D:1065:LEU:HD22	2.00	0.44
3:D:1346:ARG:HG3	3:D:1346:ARG:NH1	2.32	0.44
3:D:1489:GLN:HE22	4:E:72:ARG:HA	1.83	0.44
4:E:39:VAL:O	4:E:72:ARG:HD2	2.17	0.44
4:E:81:PRO:O	4:E:85:LEU:HD21	2.17	0.44
5:F:83:GLN:O	5:F:84:TYR:C	2.55	0.44
5:F:102:LEU:O	5:F:105:LYS:HB2	2.18	0.44
5:F:184:ARG:O	5:F:185:GLN:C	2.55	0.44
5:F:256:ARG:HG2	5:F:256:ARG:HH11	1.83	0.44
5:F:348:SER:OG	5:F:349:LEU:N	2.51	0.44
1:K:73:GLU:HB3	1:K:78:ILE:CG1	2.47	0.44
1:L:185:ARG:HB3	1:L:190:THR:HG23	2.00	0.44
2:M:208:ALA:HB1	2:M:218:VAL:CG2	2.47	0.44
2:M:236:ILE:O	2:M:237:ARG:C	2.56	0.44
2:M:334:ARG:CB	2:M:339:LEU:HD21	2.45	0.44
2:M:477:GLY:O	2:M:507:ARG:HA	2.17	0.44
2:M:588:VAL:CG2	2:M:589:ARG:H	2.29	0.44
2:M:677:MET:HB2	2:M:678:PRO:HD2	2.00	0.44
2:M:1060:ILE:HG13	2:M:1083:GLU:CG	2.48	0.44
3:N:122:GLU:O	3:N:126:VAL:CG2	2.66	0.44
3:N:664:LYS:O	3:N:665:GLY:C	2.56	0.44
3:N:804:LEU:HD23	3:N:804:LEU:HA	1.75	0.44
3:N:806:PHE:HE1	3:N:816:HIS:NE2	2.16	0.44
3:N:1091:SER:O	3:N:1093:TYR:N	2.50	0.44
3:N:1267:ARG:NH2	3:N:1271:LYS:NZ	2.53	0.44
3:N:1321:ALA:O	3:N:1339:LYS:HE3	2.17	0.44
3:N:1372:VAL:HG13	3:N:1375:MET:HE3	1.99	0.44
3:N:1404:ASN:CA	3:N:1409:ALA:H	2.31	0.44
3:N:1476:THR:CG2	4:O:17:TYR:HB3	2.48	0.44
5:P:100:VAL:O	5:P:101:GLU:C	2.55	0.44
5:P:291:ILE:O	5:P:291:ILE:HD12	2.18	0.44
5:P:408:LEU:HD12	5:P:411:HIS:CE1	2.53	0.44
1:A:104:GLU:HA	1:A:137:ARG:HA	2.00	0.43
1:B:13:VAL:HG21	1:B:23:PHE:CD2	2.53	0.43
1:B:38:ASN:HB3	1:B:39:PRO:CD	2.34	0.43
2:C:193:LEU:HD23	2:C:307:LEU:HD22	2.00	0.43
2:C:713:ARG:NH2	2:C:758:ARG:HH12	2.15	0.43
2:C:1015:LEU:HD13	5:F:335:ASP:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:142:LEU:HD13	3:D:144:GLY:N	2.33	0.43
3:D:244:GLU:CD	3:D:310:LEU:HD23	2.38	0.43
3:D:284:LEU:HD22	3:D:288:MET:HG2	1.99	0.43
3:D:566:ILE:HG13	3:D:567:ILE:N	2.33	0.43
3:D:579:ASP:O	3:D:580:ALA:C	2.56	0.43
3:D:921:ARG:HA	3:D:921:ARG:HH11	1.82	0.43
3:D:953:ASP:C	3:D:955:VAL:N	2.72	0.43
3:D:959:GLU:O	3:D:962:GLN:HB2	2.18	0.43
3:D:985:ASP:OD2	3:D:985:ASP:N	2.46	0.43
3:D:1029:ARG:HH11	3:D:1029:ARG:CG	2.14	0.43
3:D:1038:LEU:HD23	3:D:1061:PHE:CB	2.47	0.43
3:D:1274:ILE:HA	3:D:1325:LEU:HG	2.00	0.43
3:D:1286:THR:HG22	3:D:1288:GLU:HB2	2.00	0.43
3:D:1286:THR:C	3:D:1288:GLU:N	2.70	0.43
3:D:1347:TYR:CZ	3:D:1351:GLU:HG2	2.53	0.43
5:F:136:LEU:HB3	5:F:140:ARG:HD3	2.00	0.43
1:K:99:LEU:CB	1:K:114:PHE:CD2	3.00	0.43
1:K:127:LEU:HD12	1:K:128:HIS:N	2.33	0.43
1:K:186:LEU:O	1:K:186:LEU:HG	2.18	0.43
1:L:13:VAL:CG2	1:L:14:ARG:N	2.81	0.43
1:L:54:THR:OG1	1:L:145:ASP:HB2	2.17	0.43
1:L:104:GLU:HA	1:L:132:LEU:HD13	2.00	0.43
2:M:264:PRO:HB2	2:M:289:THR:CB	2.46	0.43
3:N:399:ARG:HD3	3:N:399:ARG:HA	1.76	0.43
3:N:400:VAL:HG23	3:N:443:VAL:HG11	1.98	0.43
3:N:414:ARG:O	3:N:415:VAL:CG1	2.66	0.43
3:N:485:SER:C	3:N:489:ARG:HD3	2.36	0.43
3:N:492:ALA:O	3:N:493:ARG:C	2.55	0.43
3:N:803:GLY:C	3:N:805:GLU:H	2.21	0.43
3:N:919:PHE:CD1	3:N:919:PHE:C	2.91	0.43
3:N:1091:SER:C	3:N:1093:TYR:H	2.18	0.43
3:N:1126:ASP:OD1	3:N:1126:ASP:O	2.35	0.43
3:N:1191:PRO:C	3:N:1193:THR:H	2.20	0.43
5:P:245:GLN:O	5:P:246:ALA:C	2.56	0.43
5:P:267:THR:O	5:P:270:LYS:HB3	2.18	0.43
5:P:268:ILE:HA	5:P:271:LEU:HG	1.99	0.43
5:P:370:LYS:O	5:P:371:LEU:C	2.55	0.43
5:P:380:GLU:HA	5:P:385:GLU:OE2	2.17	0.43
1:A:161:ARG:H	1:A:164:ALA:HB2	1.83	0.43
2:C:78:PHE:HD2	2:C:82:GLU:OE2	2.01	0.43
2:C:157:ARG:CG	2:C:158:TYR:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:198:ARG:HE	2:C:231:PRO:CG	2.31	0.43
2:C:273:GLY:HA2	2:C:276:LYS:CG	2.48	0.43
2:C:384:GLU:HA	2:C:384:GLU:OE2	2.17	0.43
2:C:470:PRO:CB	2:C:534:VAL:HG21	2.48	0.43
2:C:601:GLY:O	2:C:648:ARG:HA	2.17	0.43
2:C:750:LYS:O	2:C:751:PRO:C	2.55	0.43
2:C:815:LEU:HD21	2:C:822:VAL:HG22	1.99	0.43
2:C:826:TYR:CD1	2:C:826:TYR:N	2.87	0.43
2:C:833:LEU:HD12	2:C:833:LEU:HA	1.81	0.43
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.43
3:D:241:ILE:CG1	3:D:312:ARG:HG2	2.48	0.43
3:D:675:ARG:O	3:D:677:LEU:N	2.51	0.43
3:D:701:LEU:HD23	3:D:715:ALA:HB2	1.98	0.43
3:D:711:LEU:C	3:D:713:ILE:N	2.71	0.43
3:D:787:LEU:O	3:D:788:GLY:C	2.56	0.43
3:D:815:ALA:O	3:D:818:ARG:HB2	2.18	0.43
3:D:1000:THR:HG22	3:D:1036:ARG:HD2	1.99	0.43
3:D:1087:ARG:HD2	3:D:1234:THR:CA	2.48	0.43
3:D:1087:ARG:HB3	3:D:1234:THR:HA	1.99	0.43
3:D:1132:LEU:HD12	3:D:1132:LEU:HA	1.74	0.43
3:D:1209:LEU:HA	3:D:1209:LEU:HD23	1.81	0.43
3:D:1286:THR:CG2	3:D:1288:GLU:HB2	2.48	0.43
3:D:1366:LYS:O	3:D:1367:HIS:C	2.56	0.43
3:D:1443:THR:CG2	10:D:1529:NE6:H24	2.47	0.43
3:D:1450:ALA:HA	3:D:1455:LYS:HG3	1.99	0.43
3:D:1467:ILE:HD11	10:D:1529:NE6:C19	2.48	0.43
4:E:73:LEU:HD12	4:E:74:VAL:N	2.31	0.43
5:F:79:ASP:HB2	5:F:81:VAL:CG2	2.47	0.43
5:F:401:GLU:O	5:F:402:ASN:C	2.56	0.43
1:K:56:VAL:HG22	1:K:142:VAL:HG13	2.00	0.43
1:L:5:LYS:HD3	1:L:5:LYS:HA	1.81	0.43
1:L:82:LEU:N	1:L:82:LEU:HD23	2.33	0.43
1:L:86:VAL:HG22	1:L:123:MET:CG	2.48	0.43
1:L:208:LEU:CD1	1:L:212:ASN:HD21	2.31	0.43
2:M:409:ARG:C	2:M:410:ILE:HD12	2.38	0.43
2:M:571:LEU:HD22	2:M:701:THR:N	2.33	0.43
2:M:576:ALA:HB3	2:M:900:ARG:HH12	1.83	0.43
2:M:750:LYS:O	2:M:751:PRO:C	2.55	0.43
2:M:854:PRO:HD2	2:M:857:ASP:OD1	2.18	0.43
2:M:914:ILE:O	2:M:917:LEU:N	2.51	0.43
2:M:928:LYS:O	2:M:928:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	2.00	0.43
3:N:102:ILE:O	3:N:105:VAL:N	2.51	0.43
3:N:154:THR:HG23	3:N:156:GLU:HG2	2.00	0.43
3:N:256:GLU:HB2	3:N:296:GLU:CG	2.47	0.43
3:N:437:VAL:HB	5:P:179:GLU:OE2	2.18	0.43
3:N:494:LYS:HA	3:N:1388:ARG:NH1	2.23	0.43
3:N:692:GLU:O	3:N:695:ILE:N	2.51	0.43
3:N:903:ASP:O	3:N:904:VAL:HG13	2.18	0.43
3:N:912:LYS:HB3	3:N:912:LYS:NZ	2.21	0.43
3:N:1006:ALA:O	3:N:1007:VAL:C	2.57	0.43
4:O:39:VAL:O	4:O:39:VAL:HG12	2.18	0.43
5:P:188:ILE:O	5:P:189:GLU:C	2.56	0.43
5:P:288:TYR:HB3	5:P:301:ALA:HA	2.01	0.43
5:P:355:GLU:HA	5:P:358:LEU:CD2	2.48	0.43
5:P:410:TYR:HA	5:P:413:SER:OG	2.19	0.43
5:P:421:PHE:CD1	5:P:422:LEU:N	2.86	0.43
1:B:100:LEU:HB3	1:B:115:LEU:HD22	1.99	0.43
2:C:41:ASN:HD22	2:C:42:VAL:N	2.16	0.43
2:C:55:GLU:HG2	2:C:56:GLU:N	2.33	0.43
2:C:265:ARG:HA	2:C:289:THR:OG1	2.18	0.43
2:C:329:GLY:HA3	2:C:489:THR:HG23	2.00	0.43
2:C:368:THR:HB	2:C:369:PRO:CD	2.27	0.43
2:C:504:GLU:HG3	2:C:507:ARG:HD3	2.00	0.43
2:C:673:LEU:N	2:C:868:ASP:OD2	2.47	0.43
2:C:685:GLU:C	2:C:687:ALA:H	2.20	0.43
2:C:693:GLU:HG3	2:C:697:ARG:NH1	2.32	0.43
2:C:694:LEU:HD23	2:C:697:ARG:HH22	1.82	0.43
2:C:783:ARG:C	2:C:785:VAL:H	2.21	0.43
2:C:876:VAL:O	2:C:879:ARG:N	2.46	0.43
3:D:257:GLY:CA	3:D:274:ARG:CA	2.93	0.43
3:D:354:VAL:CB	3:D:367:ILE:O	2.65	0.43
3:D:500:ARG:O	3:D:504:ASP:CB	2.66	0.43
3:D:520:LEU:HD21	3:D:524:LEU:HB2	1.98	0.43
3:D:623:VAL:CG1	3:D:624:ASP:N	2.81	0.43
3:D:788:GLY:O	3:D:791:TYR:HB3	2.18	0.43
3:D:887:ALA:CA	3:D:890:VAL:HG22	2.48	0.43
3:D:1011:PHE:CD1	3:D:1021:TYR:HB2	2.53	0.43
3:D:1145:TYR:CD2	3:D:1146:GLY:N	2.87	0.43
4:E:21:VAL:O	4:E:24:ALA:HB3	2.19	0.43
4:E:81:PRO:O	4:E:85:LEU:CD2	2.66	0.43
5:F:100:VAL:O	5:F:101:GLU:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:410:TYR:O	5:F:413:SER:HB2	2.18	0.43
1:K:1:MET:HA	1:K:6:LEU:HD22	2.00	0.43
1:K:38:ASN:O	1:K:39:PRO:C	2.56	0.43
1:L:42:ARG:HH22	2:M:939:ARG:HH21	1.66	0.43
2:M:54:ILE:O	2:M:54:ILE:HG23	2.17	0.43
2:M:175:GLU:O	2:M:183:SER:HB2	2.19	0.43
2:M:192:PRO:O	2:M:193:LEU:C	2.56	0.43
2:M:406:HIS:HA	2:M:409:ARG:HD2	2.00	0.43
2:M:410:ILE:N	2:M:453:THR:O	2.51	0.43
2:M:599:GLU:HB3	2:M:615:TYR:CE2	2.53	0.43
2:M:676:ILE:HD13	3:N:949:ILE:H	1.83	0.43
2:M:815:LEU:HD13	2:M:819:VAL:HG12	2.00	0.43
2:M:910:LYS:O	2:M:911:GLU:C	2.57	0.43
3:N:85:VAL:CG2	3:N:89:ARG:CZ	2.91	0.43
3:N:223:LEU:C	3:N:332:TYR:HA	2.39	0.43
3:N:990:ASP:HA	3:N:993:LEU:HG	2.00	0.43
3:N:1481:VAL:HG12	4:O:21:VAL:HG21	2.01	0.43
3:N:1491:THR:O	3:N:1491:THR:HG22	2.17	0.43
5:P:352:GLU:CA	5:P:355:GLU:OE2	2.57	0.43
5:P:367:MET:HE2	5:P:371:LEU:HD21	1.99	0.43
5:P:386:VAL:HG11	5:P:394:ARG:N	2.33	0.43
1:B:188:GLN:CG	1:B:189:ARG:HG3	2.47	0.43
2:C:18:LEU:O	2:C:21:ILE:HD13	2.18	0.43
2:C:20:GLU:CA	2:C:23:VAL:HG22	2.47	0.43
2:C:191:PHE:CD2	2:C:195:LEU:CD1	3.01	0.43
2:C:517:ARG:O	2:C:520:GLU:CB	2.67	0.43
2:C:583:LEU:O	2:C:586:ARG:N	2.51	0.43
2:C:807:ARG:O	2:C:808:ARG:C	2.56	0.43
2:C:809:GLY:HA3	2:C:813:VAL:CG2	2.48	0.43
3:D:28:LYS:HE2	3:D:42:ASP:HB3	2.00	0.43
3:D:95:LEU:HB3	3:D:97:THR:O	2.19	0.43
3:D:106:LYS:HB3	3:D:586:ARG:NH1	2.32	0.43
3:D:553:ARG:HG2	3:D:557:LEU:HD11	1.99	0.43
3:D:761:ILE:CD1	4:E:20:THR:HA	2.49	0.43
3:D:810:GLU:C	3:D:812:ALA:H	2.21	0.43
3:D:819:GLY:HA2	3:D:822:ALA:HB3	1.98	0.43
3:D:907:GLU:OE1	3:D:909:ASN:N	2.51	0.43
3:D:1008:PHE:HD1	3:D:1008:PHE:H	1.66	0.43
3:D:1221:VAL:HG12	3:D:1370:ILE:HD13	2.01	0.43
3:D:1404:ASN:OD1	3:D:1408:ILE:HG22	2.18	0.43
5:F:107:GLU:OE2	5:F:229:TYR:CD1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:231:ARG:HB3	5:F:233:PHE:HE2	1.83	0.43
1:K:34:VAL:CB	1:L:42:ARG:NH1	2.79	0.43
1:K:124:ASN:CB	1:K:127:LEU:HB2	2.48	0.43
1:L:78:ILE:O	1:L:81:ASN:HB2	2.18	0.43
1:L:114:PHE:O	1:L:116:PRO:HD3	2.18	0.43
2:M:204:GLN:CD	2:M:225:SER:HA	2.38	0.43
2:M:289:THR:HG22	2:M:290:LEU:CD2	2.48	0.43
2:M:559:LEU:HG	2:M:560:MET:N	2.31	0.43
2:M:562:SER:O	2:M:563:ASN:C	2.56	0.43
2:M:576:ALA:HB3	2:M:900:ARG:NH1	2.33	0.43
2:M:581:THR:N	2:M:584:GLU:OE2	2.51	0.43
2:M:690:ILE:CG2	2:M:691:SER:N	2.81	0.43
2:M:768:THR:HB	2:M:771:GLU:CB	2.48	0.43
3:N:130:SER:N	3:N:568:ARG:HH21	2.15	0.43
3:N:408:GLU:OE2	3:N:444:VAL:HG11	2.18	0.43
3:N:473:LEU:O	3:N:476:GLU:HB3	2.18	0.43
3:N:539:ASP:H	5:P:318:GLU:CD	2.21	0.43
3:N:573:MET:CE	5:P:210:LEU:HB2	2.48	0.43
3:N:634:GLY:HA3	3:N:637:LEU:CG	2.47	0.43
3:N:970:LYS:HA	3:N:973:GLN:NE2	2.34	0.43
3:N:1047:LYS:N	3:N:1051:GLU:O	2.46	0.43
3:N:1324:PRO:C	3:N:1325:LEU:HD23	2.39	0.43
3:N:1451:ALA:O	3:N:1454:GLY:N	2.51	0.43
3:N:1488:ASP:C	3:N:1490:LYS:N	2.71	0.43
5:P:238:TYR:O	5:P:240:THR:N	2.51	0.43
5:P:276:ARG:C	5:P:278:LEU:H	2.22	0.43
5:P:289:GLU:CD	5:P:289:GLU:N	2.69	0.43
5:P:328:PHE:N	5:P:328:PHE:CD1	2.87	0.43
5:P:373:LYS:HE3	5:P:379:ARG:HB3	2.00	0.43
2:C:105:THR:O	2:C:107:LEU:HG	2.17	0.43
2:C:110:GLU:CB	2:C:369:PRO:HB3	2.48	0.43
2:C:195:LEU:O	2:C:199:VAL:HG23	2.18	0.43
2:C:227:PHE:CD1	2:C:227:PHE:N	2.86	0.43
2:C:458:TYR:HB2	2:C:538:GLN:HA	2.00	0.43
3:D:34:TYR:HE2	5:F:261:PRO:HD3	1.83	0.43
3:D:36:THR:HG22	3:D:38:LYS:HE2	2.01	0.43
3:D:59:ALA:C	3:D:61:GLY:H	2.22	0.43
3:D:408:GLU:HG3	3:D:422:ALA:N	2.34	0.43
3:D:522:PRO:O	3:D:524:LEU:N	2.51	0.43
3:D:629:SER:HB3	3:D:726:ILE:CD1	2.49	0.43
3:D:754:PHE:O	3:D:757:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:801:GLY:HA2	3:D:830:ALA:HB3	2.01	0.43
3:D:909:ASN:O	3:D:912:LYS:N	2.52	0.43
3:D:1031:ASN:HB2	3:D:1032:PRO:HD2	1.99	0.43
3:D:1066:THR:HB	3:D:1069:GLU:CB	2.48	0.43
3:D:1280:VAL:CG1	3:D:1281:VAL:N	2.81	0.43
3:D:1495:ILE:HG13	4:E:84:ARG:HH11	1.78	0.43
4:E:5:GLY:O	4:E:6:ILE:C	2.57	0.43
5:F:157:GLU:O	5:F:158:GLU:C	2.56	0.43
1:K:179:PHE:HB2	1:K:195:LEU:HD11	2.00	0.43
1:L:211:LEU:O	1:L:212:ASN:C	2.56	0.43
1:L:215:VAL:HG23	1:L:216:GLU:N	2.32	0.43
2:M:185:LYS:HE2	2:M:190:LYS:HZ2	1.84	0.43
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.75	0.43
2:M:334:ARG:HH11	2:M:418:LEU:CD1	2.30	0.43
2:M:691:SER:O	2:M:692:GLU:C	2.57	0.43
2:M:731:GLU:C	2:M:733:ALA:H	2.21	0.43
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.99	0.43
2:M:961:GLU:OE2	2:M:964:LYS:HB3	2.19	0.43
2:M:971:LYS:NZ	3:N:950:GLY:HA3	2.33	0.43
2:M:1055:LEU:CG	2:M:1079:PRO:HG3	2.48	0.43
2:M:1087:VAL:O	2:M:1090:LYS:HB2	2.18	0.43
3:N:197:SER:OG	3:N:199:LEU:O	2.36	0.43
3:N:274:ARG:C	3:N:275:GLU:HG3	2.39	0.43
3:N:573:MET:O	3:N:574:LEU:C	2.56	0.43
3:N:664:LYS:O	3:N:666:ILE:N	2.52	0.43
3:N:1174:LEU:O	3:N:1177:ALA:HB3	2.19	0.43
3:N:1260:ILE:O	3:N:1261:GLU:C	2.57	0.43
3:N:1434:TRP:NE1	3:N:1435:LEU:HD23	2.33	0.43
5:P:127:ILE:O	5:P:130:VAL:N	2.45	0.43
5:P:225:GLU:O	5:P:227:PHE:N	2.51	0.43
5:P:385:GLU:O	5:P:388:ALA:HB3	2.19	0.43
1:A:5:LYS:C	1:A:7:LYS:N	2.72	0.43
1:A:191:ASP:O	2:C:938:LYS:NZ	2.51	0.43
1:B:80:LEU:HB3	3:D:844:ALA:CB	2.49	0.43
2:C:151:ASP:H	2:C:158:TYR:CB	2.31	0.43
2:C:285:LEU:HD11	2:C:289:THR:HA	2.01	0.43
2:C:342:ASP:OD1	2:C:343:GLN:N	2.51	0.43
2:C:353:ARG:NH1	2:C:353:ARG:CG	2.80	0.43
2:C:861:LEU:HG	2:C:865:THR:OG1	2.18	0.43
2:C:893:ALA:HB1	2:C:897:LEU:CD1	2.49	0.43
2:C:945:ARG:HE	2:C:945:ARG:HB2	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1051:GLU:OE2	2:C:1056:LYS:HE3	2.18	0.43
3:D:62:LYS:HE3	3:D:75:ARG:CZ	2.49	0.43
3:D:206:ARG:HG3	3:D:393:ILE:HA	1.99	0.43
3:D:238:PRO:CG	3:D:318:ARG:HA	2.49	0.43
3:D:570:GLU:O	3:D:571:LYS:C	2.57	0.43
3:D:806:PHE:CE1	3:D:816:HIS:NE2	2.87	0.43
3:D:846:PRO:O	3:D:849:ALA:N	2.52	0.43
3:D:930:LEU:HG	3:D:934:LEU:CD1	2.36	0.43
3:D:1399:ASP:O	3:D:1408:ILE:CD1	2.66	0.43
3:D:1439:SER:OG	3:D:1463:LYS:HE2	2.18	0.43
5:F:114:LYS:O	5:F:115:LYS:C	2.55	0.43
1:K:214:ALA:O	1:K:217:ILE:HB	2.19	0.43
2:M:76:PRO:HA	2:M:91:GLN:O	2.19	0.43
2:M:100:LEU:CD2	2:M:368:THR:HA	2.48	0.43
2:M:205:GLU:N	2:M:209:ARG:NH1	2.66	0.43
2:M:271:GLU:HA	2:M:274:ARG:HB3	2.00	0.43
2:M:327:HIS:CE1	2:M:433:THR:HG21	2.52	0.43
2:M:439:CYS:CB	2:M:541:SER:H	2.31	0.43
2:M:843:HIS:CE1	2:M:884:GLN:HA	2.54	0.43
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.97	0.43
2:M:1089:VAL:HG13	2:M:1099:VAL:HB	2.01	0.43
3:N:41:ARG:HA	3:N:46:ASP:OD1	2.18	0.43
3:N:45:PHE:O	3:N:86:ARG:NH2	2.52	0.43
3:N:178:LEU:HG	3:N:181:ASP:CB	2.44	0.43
3:N:197:SER:C	3:N:199:LEU:N	2.71	0.43
3:N:502:PHE:CZ	3:N:1452:ILE:HD12	2.53	0.43
3:N:525:ARG:NH1	3:N:525:ARG:CG	2.78	0.43
3:N:566:ILE:CG2	5:P:192:LEU:HD22	2.48	0.43
3:N:606:ILE:HG22	3:N:607:LEU:N	2.33	0.43
3:N:665:GLY:O	3:N:667:ALA:N	2.51	0.43
3:N:891:GLU:HB2	3:N:926:LYS:HZ3	1.83	0.43
3:N:972:LEU:N	3:N:972:LEU:CD2	2.81	0.43
3:N:1024:ALA:HB2	3:N:1035:ILE:HD11	1.99	0.43
3:N:1130:ARG:HH22	3:N:1319:VAL:HG12	1.84	0.43
3:N:1332:PRO:O	3:N:1333:HIS:C	2.56	0.43
3:N:1341:PRO:C	3:N:1345:GLU:HG3	2.39	0.43
3:N:1499:ARG:HD2	3:N:1499:ARG:C	2.39	0.43
5:P:188:ILE:HG13	5:P:188:ILE:H	1.61	0.43
5:P:288:TYR:O	5:P:289:GLU:C	2.56	0.43
5:P:347:GLN:O	5:P:350:LEU:HB3	2.18	0.43
1:B:104:GLU:HB2	1:B:105:GLY:H	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:76:PRO:O	2:C:77:PRO:C	2.56	0.43
2:C:383:ARG:O	2:C:384:GLU:C	2.57	0.43
2:C:631:SER:HB2	2:C:635:THR:OG1	2.19	0.43
2:C:724:ARG:HD2	2:C:738:ASP:HA	2.01	0.43
2:C:832:LYS:CG	2:C:833:LEU:N	2.82	0.43
2:C:1052:MET:SD	3:D:623:VAL:CG2	3.07	0.43
3:D:93:ILE:HD13	3:D:548:ILE:HG12	2.01	0.43
3:D:185:VAL:CG2	3:D:203:ALA:N	2.82	0.43
3:D:410:SER:OG	5:F:164:LYS:HE2	2.18	0.43
3:D:414:ARG:HB3	3:D:451:ASP:OD1	2.18	0.43
3:D:452:ILE:O	3:D:452:ILE:HG13	2.18	0.43
3:D:491:LYS:O	3:D:492:ALA:C	2.57	0.43
3:D:631:ILE:HG21	3:D:745:MET:CG	2.35	0.43
3:D:945:SER:HG	3:D:947:ILE:HG22	1.81	0.43
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.19	0.43
3:D:1069:GLU:HA	3:D:1072:ILE:HD12	2.00	0.43
3:D:1262:LEU:O	3:D:1264:GLU:N	2.52	0.43
3:D:1379:VAL:HA	3:D:1420:LEU:CG	2.49	0.43
4:E:6:ILE:HG13	4:E:10:PHE:HE1	1.76	0.43
5:F:85:LEU:C	5:F:87:GLU:N	2.71	0.43
5:F:109:GLY:O	5:F:113:ILE:HG13	2.19	0.43
5:F:110:MET:O	5:F:111:GLU:C	2.57	0.43
5:F:144:ILE:C	5:F:146:GLY:H	2.21	0.43
5:F:234:LYS:CD	5:F:236:SER:HB3	2.49	0.43
5:F:367:MET:CB	5:F:370:LYS:HE2	2.49	0.43
2:M:276:LYS:HA	2:M:280:LYS:HE3	2.00	0.43
2:M:734:LEU:O	2:M:735:ARG:C	2.57	0.43
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.99	0.43
2:M:958:THR:O	2:M:959:PRO:C	2.57	0.43
2:M:1014:SER:O	2:M:1018:GLN:HA	2.19	0.43
2:M:1068:GLU:O	2:M:1071:ILE:HB	2.18	0.43
3:N:10:ILE:HD13	3:N:1450:ALA:HB3	2.01	0.43
3:N:362:GLU:O	3:N:363:ALA:C	2.57	0.43
3:N:434:ARG:NH2	3:N:451:ASP:OD1	2.51	0.43
3:N:569:ASN:HB2	5:P:84:TYR:CD1	2.53	0.43
3:N:580:ALA:O	3:N:584:ASN:HB2	2.19	0.43
5:P:373:LYS:NZ	5:P:373:LYS:CB	2.72	0.43
1:A:11:PHE:HE2	1:B:228:PRO:HA	1.84	0.43
1:A:218:LEU:O	1:A:222:LEU:HG	2.18	0.43
1:B:5:LYS:CD	1:B:7:LYS:HD2	2.45	0.43
2:C:151:ASP:HA	2:C:159:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:176:VAL:HA	2:C:183:SER:OG	2.18	0.43
2:C:311:PHE:C	2:C:313:LEU:N	2.72	0.43
2:C:326:ASP:HB2	2:C:431:HIS:HD2	1.83	0.43
2:C:401:LEU:HD21	2:C:543:ASN:HB3	2.00	0.43
2:C:494:TYR:CD1	2:C:494:TYR:N	2.87	0.43
2:C:517:ARG:O	2:C:520:GLU:HB2	2.18	0.43
2:C:594:ALA:HB1	2:C:654:LEU:HD13	2.00	0.43
2:C:873:PRO:HB3	3:D:949:ILE:HD12	2.00	0.43
3:D:109:PRO:HB2	3:D:114:THR:CB	2.48	0.43
3:D:325:GLU:HG3	3:D:325:GLU:O	2.18	0.43
3:D:497:GLU:O	3:D:498:VAL:C	2.57	0.43
3:D:623:VAL:HG12	3:D:624:ASP:N	2.34	0.43
3:D:692:GLU:CD	3:D:692:GLU:C	2.78	0.43
3:D:958:GLU:C	3:D:960:LYS:N	2.72	0.43
3:D:1001:GLU:O	3:D:1002:LYS:C	2.57	0.43
3:D:1397:LYS:O	3:D:1401:GLU:OE2	2.36	0.43
4:E:46:PRO:O	4:E:56:ASP:HA	2.19	0.43
5:F:112:ALA:O	5:F:115:LYS:N	2.52	0.43
5:F:288:TYR:CB	5:F:301:ALA:HB1	2.48	0.43
5:F:295:MET:HB3	5:F:299:TRP:CG	2.53	0.43
1:L:19:GLU:O	1:L:201:THR:N	2.45	0.43
1:L:178:ALA:O	1:L:197:LEU:HD12	2.19	0.43
2:M:44:ILE:HG22	2:M:48:PHE:CE1	2.53	0.43
2:M:59:LYS:N	2:M:59:LYS:CD	2.63	0.43
2:M:185:LYS:NZ	2:M:190:LYS:HZ3	2.17	0.43
2:M:221:LEU:C	2:M:221:LEU:HD23	2.39	0.43
2:M:486:MET:SD	2:M:490:GLU:HB2	2.59	0.43
2:M:692:GLU:HA	2:M:852:ILE:CG2	2.49	0.43
2:M:1005:MET:CE	3:N:648:MET:HB2	2.49	0.43
2:M:1051:GLU:O	2:M:1052:MET:C	2.57	0.43
3:N:15:PRO:HB2	3:N:16:GLU:OE1	2.17	0.43
3:N:256:GLU:HB2	3:N:257:GLY:H	1.59	0.43
3:N:545:ARG:O	3:N:546:ARG:C	2.57	0.43
3:N:623:VAL:HG13	3:N:624:ASP:H	1.83	0.43
3:N:698:LYS:HA	3:N:756:GLN:OE1	2.19	0.43
3:N:799:LYS:N	3:N:829:VAL:CG1	2.82	0.43
3:N:1118:ILE:CG2	3:N:1190:SER:HB3	2.49	0.43
3:N:1136:LYS:O	3:N:1137:ARG:C	2.57	0.43
3:N:1357:ARG:O	3:N:1360:GLY:N	2.49	0.43
4:O:17:TYR:O	4:O:18:ARG:C	2.57	0.43
4:O:66:LYS:HD3	4:O:66:LYS:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:79:ASP:O	5:P:80:PRO:C	2.56	0.43
5:P:163:LEU:N	5:P:163:LEU:HD23	2.32	0.43
5:P:189:GLU:HA	5:P:192:LEU:CD1	2.49	0.43
5:P:191:ASN:O	5:P:194:LEU:N	2.52	0.43
5:P:355:GLU:CA	5:P:358:LEU:HB3	2.49	0.43
5:P:381:HIS:O	5:P:384:GLU:N	2.38	0.43
5:P:385:GLU:HB2	5:P:397:ILE:HD13	2.00	0.43
1:A:221:HIS:C	1:A:223:THR:N	2.69	0.43
1:B:185:ARG:HH22	3:D:692:GLU:CG	2.23	0.43
2:C:48:PHE:C	2:C:50:GLU:H	2.22	0.43
2:C:273:GLY:O	2:C:277:ALA:N	2.52	0.43
2:C:334:ARG:O	2:C:339:LEU:HD11	2.19	0.43
2:C:695:LEU:O	2:C:696:LYS:C	2.56	0.43
2:C:882:LEU:O	2:C:885:ILE:HB	2.19	0.43
2:C:1090:LYS:HD2	3:D:90:MET:SD	2.58	0.43
2:C:1114:GLY:C	2:C:1116:ALA:N	2.72	0.43
3:D:249:TYR:HD2	3:D:288:MET:CE	2.31	0.43
3:D:344:ASP:OD1	3:D:345:TYR:N	2.52	0.43
3:D:817:GLU:O	3:D:821:VAL:HG23	2.19	0.43
3:D:837:GLY:C	3:D:839:LEU:N	2.72	0.43
3:D:1353:GLN:C	3:D:1355:VAL:N	2.70	0.43
3:D:1397:LYS:N	3:D:1398:TRP:HE3	2.17	0.43
5:F:207:LEU:CB	5:F:212:LEU:HD21	2.40	0.43
5:F:379:ARG:C	5:F:379:ARG:CD	2.87	0.43
5:F:383:LEU:HD21	5:F:394:ARG:HD3	2.00	0.43
2:M:114:PHE:CE2	5:P:283:GLY:HA3	2.54	0.43
2:M:159:ILE:HG22	2:M:175:GLU:HB2	2.01	0.43
2:M:208:ALA:HB1	2:M:222:MET:CG	2.49	0.43
2:M:334:ARG:NH2	2:M:342:ASP:OD2	2.52	0.43
2:M:443:THR:OG1	2:M:444:PRO:CD	2.61	0.43
2:M:472:ARG:NH2	2:M:479:VAL:HG12	2.34	0.43
2:M:495:THR:HB	2:M:530:GLU:CG	2.48	0.43
2:M:526:PRO:O	2:M:527:GLU:C	2.57	0.43
2:M:860:HIS:HA	2:M:866:PRO:HA	2.01	0.43
2:M:889:HIS:O	2:M:892:LEU:HB3	2.18	0.43
2:M:918:LEU:HD12	2:M:968:LEU:C	2.39	0.43
2:M:1085:PHE:HB2	3:N:1468:LEU:O	2.19	0.43
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.74	0.43
3:N:61:GLY:O	3:N:62:LYS:C	2.56	0.43
3:N:138:LYS:CB	3:N:450:TYR:OH	2.54	0.43
3:N:601:ARG:HG2	3:N:601:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:655:PRO:O	3:N:656:PHE:C	2.57	0.43
3:N:671:LYS:HE2	3:N:675:ARG:CD	2.47	0.43
3:N:758:GLU:O	3:N:762:GLN:HG2	2.18	0.43
3:N:826:PRO:HB3	3:N:828:LYS:HZ3	1.83	0.43
3:N:845:ASN:HB3	3:N:847:ASP:OD1	2.19	0.43
3:N:845:ASN:N	3:N:848:GLU:OE1	2.40	0.43
3:N:1118:ILE:HG12	3:N:1190:SER:HB2	2.01	0.43
3:N:1164:ARG:HH21	3:N:1170:ASP:CG	2.22	0.43
5:P:102:LEU:HD11	5:P:183:ALA:HB1	1.95	0.43
5:P:372:ARG:HA	5:P:372:ARG:HD2	1.77	0.43
5:P:380:GLU:C	5:P:382:THR:H	2.21	0.43
1:B:211:LEU:O	1:B:215:VAL:HG13	2.18	0.43
2:C:111:ASP:O	2:C:112:GLU:HG2	2.19	0.43
2:C:128:ILE:C	2:C:129:ILE:HD13	2.39	0.43
2:C:157:ARG:HD3	2:C:158:TYR:CZ	2.54	0.43
2:C:170:PRO:HD2	2:C:263:ASP:O	2.19	0.43
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.87	0.43
2:C:346:VAL:HB	2:C:350:ARG:CZ	2.49	0.43
2:C:640:ARG:O	2:C:656:ALA:HA	2.19	0.43
2:C:1012:PRO:HD3	2:C:1026:GLN:CG	2.41	0.43
2:C:1101:THR:OG1	2:C:1109:VAL:O	2.34	0.43
3:D:64:LYS:CD	5:F:377:ASP:OD2	2.67	0.43
3:D:128:TYR:O	3:D:129:PHE:C	2.55	0.43
3:D:168:THR:HB	3:D:206:ARG:HH12	1.84	0.43
3:D:469:ASP:O	3:D:472:ALA:HB3	2.19	0.43
3:D:523:ASP:C	3:D:526:PRO:HG3	2.38	0.43
3:D:550:ARG:NH1	3:D:573:MET:O	2.52	0.43
3:D:780:LYS:HB2	3:D:781:PRO:HD2	2.01	0.43
5:F:104:ARG:HG3	5:F:105:LYS:H	1.82	0.43
5:F:170:HIS:HA	5:F:173:TYR:HD1	1.84	0.43
5:F:239:ALA:O	5:F:240:THR:C	2.56	0.43
5:F:256:ARG:NH2	5:F:310:ILE:O	2.52	0.43
5:F:394:ARG:O	5:F:397:ILE:HB	2.19	0.43
1:K:33:GLY:HA3	1:K:181:VAL:CG2	2.46	0.43
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.85	0.43
1:K:106:PRO:HD3	1:K:134:GLU:HA	2.00	0.43
2:M:185:LYS:HZ3	2:M:190:LYS:HZ3	1.66	0.43
2:M:196:LEU:N	2:M:196:LEU:HD23	2.33	0.43
2:M:208:ALA:CB	2:M:221:LEU:HD22	2.42	0.43
2:M:276:LYS:O	2:M:277:ALA:C	2.56	0.43
2:M:305:PRO:O	2:M:309:TYR:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:522:VAL:HG12	2:M:523:ILE:H	1.83	0.43
2:M:737:LEU:HD21	2:M:741:GLY:O	2.18	0.43
3:N:191:LEU:HD11	3:N:393:ILE:HD12	2.01	0.43
3:N:227:LEU:HB2	3:N:329:GLU:O	2.18	0.43
3:N:287:GLY:CA	3:N:311:LEU:HD22	2.49	0.43
3:N:406:ASP:HB2	3:N:423:ASP:CA	2.44	0.43
3:N:894:LYS:HB3	3:N:898:GLU:OE1	2.18	0.43
3:N:1111:ASP:OD2	3:N:1203:LYS:HG3	2.19	0.43
3:N:1424:VAL:CG2	3:N:1425:THR:H	2.26	0.43
3:N:1462:LEU:HD22	3:N:1472:ILE:HD12	2.01	0.43
5:P:84:TYR:C	5:P:86:HIS:N	2.69	0.43
5:P:278:LEU:O	5:P:282:LEU:N	2.31	0.43
5:P:348:SER:O	5:P:352:GLU:OE2	2.36	0.43
5:P:373:LYS:HD2	5:P:373:LYS:C	2.38	0.43
2:C:157:ARG:CD	2:C:314:THR:HG22	2.38	0.42
2:C:352:ALA:C	2:C:355:VAL:HG12	2.38	0.42
2:C:615:TYR:O	2:C:616:GLU:C	2.57	0.42
2:C:716:LYS:C	2:C:718:GLY:H	2.21	0.42
3:D:22:SER:HB2	3:D:24:GLY:O	2.18	0.42
3:D:394:LEU:HD12	3:D:395:VAL:H	1.83	0.42
3:D:566:ILE:HA	3:D:569:ASN:HD22	1.83	0.42
3:D:639:LEU:HG	3:D:766:ALA:HB2	1.99	0.42
3:D:661:MET:HB3	3:D:667:ALA:CB	2.49	0.42
3:D:796:ARG:HG3	3:D:861:GLN:HB3	2.00	0.42
3:D:867:ARG:HA	3:D:871:LYS:O	2.19	0.42
3:D:1126:ASP:OD1	3:D:1126:ASP:O	2.37	0.42
3:D:1159:ARG:H	3:D:1159:ARG:HG2	1.63	0.42
3:D:1395:LEU:O	3:D:1398:TRP:CE3	2.72	0.42
4:E:25:LYS:CA	4:E:28:GLN:NE2	2.78	0.42
5:F:264:MET:O	5:F:267:THR:OG1	2.31	0.42
5:F:394:ARG:HA	5:F:397:ILE:HD12	2.00	0.42
1:K:219:ARG:HG2	1:K:219:ARG:NH1	2.33	0.42
1:L:209:GLU:HG3	1:L:209:GLU:H	1.58	0.42
2:M:27:ARG:C	2:M:29:ALA:N	2.72	0.42
2:M:240:THR:C	2:M:242:LEU:H	2.22	0.42
2:M:380:ALA:HB1	2:M:384:GLU:CG	2.49	0.42
2:M:737:LEU:HD21	2:M:741:GLY:C	2.39	0.42
2:M:773:LEU:O	2:M:774:LEU:C	2.56	0.42
3:N:119:SER:N	3:N:123:LEU:CG	2.65	0.42
3:N:217:LYS:HE3	3:N:341:GLU:CD	2.39	0.42
3:N:241:ILE:HG22	3:N:242:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:702:LEU:O	3:N:736:PHE:CZ	2.71	0.42
3:N:729:HIS:O	3:N:732:VAL:HG22	2.19	0.42
3:N:759:ALA:HA	3:N:763:MET:CG	2.49	0.42
3:N:784:ASP:O	3:N:785:ILE:C	2.57	0.42
3:N:1401:GLU:CD	3:N:1401:GLU:N	2.72	0.42
4:O:85:LEU:O	4:O:86:GLN:C	2.57	0.42
5:P:207:LEU:HG	5:P:211:ASP:HB2	2.00	0.42
5:P:248:ASN:O	5:P:249:ARG:C	2.57	0.42
5:P:321:ILE:C	5:P:323:ASP:N	2.73	0.42
5:P:356:LYS:HB3	5:P:417:LYS:NZ	2.33	0.42
5:P:418:LEU:O	5:P:419:ARG:C	2.57	0.42
1:B:61:VAL:CG2	1:B:62:LEU:N	2.82	0.42
1:B:118:ALA:C	1:B:120:VAL:H	2.22	0.42
2:C:23:VAL:CG2	2:C:24:GLU:N	2.82	0.42
2:C:202:TYR:HB2	2:C:207:LEU:CD1	2.47	0.42
2:C:260:LEU:HB2	2:C:291:ALA:CB	2.49	0.42
2:C:432:ARG:HG3	2:C:433:THR:N	2.34	0.42
2:C:589:ARG:NH2	2:C:652:GLY:O	2.52	0.42
2:C:605:LYS:HB3	2:C:610:ARG:HH22	1.80	0.42
2:C:910:LYS:N	2:C:913:GLU:OE1	2.52	0.42
2:C:1071:ILE:C	2:C:1073:GLY:N	2.71	0.42
3:D:31:THR:OG1	5:F:258:ILE:HD13	2.19	0.42
3:D:60:CYS:SG	3:D:76:CYS:CB	3.04	0.42
3:D:87:ARG:HG3	3:D:88:TYR:CE2	2.54	0.42
3:D:117:ASP:HB2	3:D:495:ARG:NH1	2.34	0.42
3:D:119:SER:H	3:D:123:LEU:HB2	1.83	0.42
3:D:125:GLN:O	3:D:126:VAL:C	2.57	0.42
3:D:206:ARG:HB3	3:D:207:PHE:HD1	1.83	0.42
3:D:269:PHE:HD1	3:D:283:PHE:CB	2.28	0.42
3:D:608:SER:O	3:D:609:GLY:C	2.57	0.42
3:D:632:VAL:N	3:D:726:ILE:O	2.46	0.42
3:D:710:ARG:C	3:D:712:GLY:N	2.73	0.42
3:D:829:VAL:HB	3:D:830:ALA:H	1.69	0.42
3:D:886:VAL:O	3:D:890:VAL:HG22	2.19	0.42
3:D:915:VAL:O	3:D:916:TYR:C	2.57	0.42
3:D:1012:GLU:O	3:D:1016:PRO:HG3	2.19	0.42
3:D:1071:PHE:O	3:D:1072:ILE:C	2.58	0.42
3:D:1143:GLY:HA2	3:D:1365:ASP:OD1	2.20	0.42
3:D:1232:PRO:HB2	3:D:1356:TYR:CE2	2.54	0.42
3:D:1380:GLU:HB2	3:D:1420:LEU:HD11	2.01	0.42
4:E:26:ARG:O	4:E:29:GLN:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:79:ASP:HB2	5:F:81:VAL:HG22	2.01	0.42
5:F:99:GLU:O	5:F:100:VAL:C	2.58	0.42
5:F:183:ALA:O	5:F:184:ARG:C	2.58	0.42
5:F:300:ASP:OD2	5:F:302:LYS:HE3	2.20	0.42
5:F:321:ILE:O	5:F:323:ASP:N	2.52	0.42
1:K:40:LEU:O	1:K:43:ILE:N	2.52	0.42
1:L:112:ARG:HH11	1:L:112:ARG:CB	2.31	0.42
2:M:20:GLU:O	2:M:23:VAL:HG23	2.18	0.42
2:M:151:ASP:CB	2:M:157:ARG:O	2.64	0.42
2:M:182:VAL:HG21	2:M:194:VAL:CG2	2.49	0.42
2:M:198:ARG:CG	2:M:228:ALA:HA	2.49	0.42
2:M:289:THR:HG22	2:M:290:LEU:HD21	2.00	0.42
2:M:341:THR:O	2:M:344:PHE:N	2.51	0.42
2:M:537:LYS:H	2:M:537:LYS:HG3	1.36	0.42
2:M:562:SER:O	2:M:564:MET:N	2.51	0.42
2:M:583:LEU:O	2:M:584:GLU:C	2.56	0.42
2:M:731:GLU:HA	2:M:734:LEU:CD1	2.49	0.42
2:M:731:GLU:C	2:M:733:ALA:N	2.73	0.42
2:M:1060:ILE:O	2:M:1061:GLU:C	2.57	0.42
2:M:1107:ASN:HA	2:M:1108:PRO:HD3	1.91	0.42
3:N:119:SER:CA	3:N:123:LEU:HG	2.48	0.42
3:N:262:LYS:HG2	3:N:263:GLU:N	2.34	0.42
3:N:591:VAL:HB	3:N:598:ARG:O	2.20	0.42
3:N:749:VAL:HA	3:N:750:PRO:HD2	1.93	0.42
3:N:826:PRO:CD	3:N:829:VAL:HG11	2.37	0.42
3:N:1003:VAL:O	3:N:1004:THR:C	2.57	0.42
3:N:1417:TRP:CD1	3:N:1418:LYS:N	2.88	0.42
3:N:1489:GLN:NE2	4:O:71:GLY:O	2.39	0.42
3:N:1496:GLU:OE1	3:N:1499:ARG:NE	2.52	0.42
5:P:236:SER:C	5:P:238:TYR:N	2.72	0.42
5:P:287:THR:HG23	5:P:290:GLU:CD	2.38	0.42
5:P:300:ASP:HB3	5:P:302:LYS:NZ	2.34	0.42
5:P:330:GLY:C	5:P:332:PHE:N	2.70	0.42
1:A:184:THR:O	1:A:192:LEU:HB2	2.19	0.42
1:B:55:SER:O	1:B:143:ARG:HB3	2.19	0.42
2:C:198:ARG:HA	2:C:198:ARG:HD2	1.90	0.42
2:C:204:GLN:HG2	2:C:222:MET:HG2	2.00	0.42
2:C:335:THR:O	2:C:336:VAL:C	2.57	0.42
2:C:368:THR:CB	2:C:369:PRO:CD	2.94	0.42
2:C:460:ARG:O	2:C:467:ILE:HA	2.19	0.42
2:C:472:ARG:CZ	2:C:479:VAL:HG12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:701:THR:HA	2:C:832:LYS:HA	2.01	0.42
3:D:17:LYS:O	3:D:18:ILE:C	2.56	0.42
3:D:25:GLU:OE2	3:D:94:GLU:HB2	2.19	0.42
3:D:210:ARG:HD2	3:D:389:GLU:HG3	2.00	0.42
3:D:227:LEU:HD11	3:D:326:GLU:CA	2.33	0.42
3:D:409:VAL:HB	5:F:164:LYS:HZ3	1.84	0.42
3:D:610:LYS:O	3:D:612:GLY:N	2.46	0.42
3:D:761:ILE:HD13	4:E:20:THR:HA	2.01	0.42
3:D:800:LYS:NZ	3:D:825:ALA:HA	2.34	0.42
3:D:828:LYS:H	3:D:828:LYS:CE	2.32	0.42
3:D:862:ASP:O	3:D:877:PRO:HD3	2.19	0.42
3:D:1496:GLU:CA	3:D:1499:ARG:HB3	2.47	0.42
5:F:350:LEU:C	5:F:352:GLU:N	2.72	0.42
1:K:221:HIS:C	1:K:223:THR:N	2.71	0.42
1:L:94:LEU:O	1:L:146:ARG:CZ	2.68	0.42
2:M:58:ASP:C	2:M:59:LYS:HD2	2.36	0.42
2:M:193:LEU:HD12	2:M:196:LEU:HD12	2.01	0.42
2:M:227:PHE:HD1	2:M:227:PHE:N	2.16	0.42
2:M:267:TYR:CD1	2:M:272:ALA:HB2	2.55	0.42
2:M:409:ARG:HA	2:M:454:SER:HA	2.01	0.42
2:M:563:ASN:O	2:M:567:GLN:HG3	2.19	0.42
2:M:928:LYS:HE2	2:M:932:GLU:CG	2.49	0.42
2:M:963:LEU:HD23	2:M:963:LEU:N	2.33	0.42
3:N:117:ASP:HB2	3:N:150:ARG:NH2	2.34	0.42
3:N:211:VAL:HA	3:N:387:LEU:HA	2.01	0.42
3:N:259:VAL:C	3:N:260:GLU:HG3	2.40	0.42
3:N:331:VAL:HG12	3:N:333:LEU:HD23	2.00	0.42
3:N:337:LEU:HD23	3:N:337:LEU:N	2.34	0.42
3:N:411:THR:H	3:N:437:VAL:HG23	1.84	0.42
3:N:505:SER:HB3	3:N:1453:ALA:O	2.19	0.42
3:N:553:ARG:O	3:N:554:LEU:C	2.58	0.42
3:N:895:VAL:HA	3:N:898:GLU:CD	2.40	0.42
3:N:912:LYS:O	3:N:915:VAL:HB	2.19	0.42
3:N:970:LYS:O	3:N:973:GLN:N	2.52	0.42
3:N:1114:THR:HG23	3:N:1114:THR:O	2.19	0.42
3:N:1118:ILE:HD13	3:N:1190:SER:CB	2.48	0.42
3:N:1213:ARG:HG2	3:N:1213:ARG:NH1	2.18	0.42
3:N:1378:TYR:CZ	3:N:1430:SER:HB2	2.54	0.42
5:P:102:LEU:O	5:P:105:LYS:HB2	2.18	0.42
5:P:208:SER:O	5:P:209:PHE:C	2.58	0.42
5:P:371:LEU:O	5:P:375:LEU:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:382:THR:HG21	5:P:394:ARG:HB2	2.01	0.42
1:A:63:HIS:CE1	1:A:65:PHE:C	2.93	0.42
1:A:65:PHE:HA	2:C:628:PHE:HE2	1.85	0.42
2:C:56:GLU:O	2:C:359:MET:SD	2.77	0.42
2:C:234:ALA:O	2:C:238:LEU:HG	2.20	0.42
2:C:260:LEU:C	2:C:288:ARG:NH2	2.73	0.42
2:C:276:LYS:O	2:C:277:ALA:C	2.57	0.42
2:C:276:LYS:O	2:C:280:LYS:HG3	2.19	0.42
2:C:474:VAL:HG12	2:C:530:GLU:CA	2.49	0.42
2:C:503:LEU:HD12	2:C:508:ILE:CA	2.36	0.42
2:C:575:GLN:HE21	2:C:670:GLN:CG	2.32	0.42
2:C:644:VAL:O	2:C:647:GLN:HB3	2.19	0.42
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.19	0.42
2:C:1015:LEU:HD12	5:F:335:ASP:HA	2.00	0.42
2:C:1052:MET:HA	2:C:1056:LYS:HD2	2.01	0.42
3:D:18:ILE:HD13	3:D:516:ALA:O	2.19	0.42
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.77	0.42
3:D:37:LEU:N	3:D:37:LEU:HD23	2.33	0.42
3:D:462:GLN:HG2	3:D:466:LYS:HE3	2.00	0.42
3:D:528:VAL:C	3:D:535:PHE:HB3	2.39	0.42
3:D:596:SER:C	3:D:598:ARG:N	2.73	0.42
3:D:698:LYS:HA	3:D:756:GLN:HE22	1.83	0.42
3:D:704:ARG:NE	3:D:738:ALA:HB2	2.33	0.42
3:D:807:ALA:CB	3:D:833:GLU:CD	2.87	0.42
3:D:860:LEU:H	3:D:860:LEU:HG	1.55	0.42
3:D:1094:LEU:CD1	3:D:1098:LEU:HD11	2.49	0.42
3:D:1103:HIS:CD2	3:D:1462:LEU:N	2.87	0.42
3:D:1197:ARG:HG3	3:D:1396:GLU:OE1	2.20	0.42
3:D:1269:LYS:HD3	3:D:1269:LYS:N	2.34	0.42
4:E:41:GLU:HB2	4:E:42:PRO:CD	2.37	0.42
5:F:107:GLU:OE2	5:F:229:TYR:HD1	2.02	0.42
5:F:262:VAL:C	5:F:264:MET:N	2.69	0.42
5:F:414:ARG:N	5:F:414:ARG:HE	2.17	0.42
1:K:55:SER:HB2	1:K:165:ILE:O	2.19	0.42
1:K:110:LYS:HA	1:K:127:LEU:O	2.19	0.42
2:M:182:VAL:HB	2:M:193:LEU:N	2.29	0.42
2:M:182:VAL:CG2	2:M:221:LEU:HA	2.49	0.42
2:M:267:TYR:CB	2:M:272:ALA:H	2.32	0.42
2:M:270:GLY:O	2:M:271:GLU:C	2.57	0.42
2:M:588:VAL:HG21	2:M:664:GLY:O	2.20	0.42
2:M:612:VAL:HA	2:M:622:GLU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.59	0.42
2:M:1059:ASP:OD1	2:M:1080:SER:OG	2.37	0.42
2:M:1084:SER:OG	2:M:1085:PHE:N	2.52	0.42
2:M:1098:ASP:CB	3:N:17:LYS:NZ	2.83	0.42
3:N:446:VAL:O	3:N:446:VAL:HG12	2.18	0.42
3:N:455:ARG:HB2	3:N:460:ALA:CB	2.47	0.42
3:N:544:TYR:O	3:N:547:LEU:N	2.52	0.42
3:N:602:SER:O	3:N:605:ASP:HB2	2.20	0.42
3:N:642:CYS:SG	3:N:716:PHE:CB	3.00	0.42
3:N:658:LEU:N	3:N:661:MET:HE3	2.34	0.42
3:N:670:VAL:O	3:N:671:LYS:C	2.56	0.42
3:N:673:ALA:O	3:N:677:LEU:HG	2.19	0.42
3:N:909:ASN:HA	3:N:912:LYS:HZ2	1.85	0.42
3:N:1005:GLN:O	3:N:1006:ALA:C	2.57	0.42
3:N:1175:ILE:O	3:N:1179:GLU:N	2.48	0.42
3:N:1207:TYR:HA	3:N:1214:PRO:HA	2.02	0.42
3:N:1399:ASP:O	3:N:1400:VAL:C	2.56	0.42
3:N:1491:THR:HG23	3:N:1494:ALA:HB2	1.99	0.42
4:O:5:GLY:O	4:O:9:LEU:HG	2.19	0.42
5:P:209:PHE:HA	5:P:212:LEU:HG	2.01	0.42
5:P:276:ARG:C	5:P:278:LEU:N	2.73	0.42
5:P:305:GLU:HA	5:P:308:LEU:CD1	2.48	0.42
5:P:354:LEU:O	5:P:355:GLU:C	2.58	0.42
5:P:361:LEU:HG	5:P:362:SER:H	1.83	0.42
1:A:14:ARG:HG2	1:A:14:ARG:HH11	1.85	0.42
1:A:20:TYR:CG	1:A:21:GLY:N	2.87	0.42
1:A:196:THR:HG21	2:C:934:PHE:CE2	2.55	0.42
1:B:217:ILE:O	1:B:220:GLU:HB3	2.19	0.42
2:C:13:ILE:HD13	2:C:13:ILE:N	2.33	0.42
2:C:24:GLU:OE2	2:C:27:ARG:HD3	2.19	0.42
2:C:58:ASP:C	2:C:60:GLY:N	2.73	0.42
2:C:347:GLY:HA2	2:C:350:ARG:HB2	2.01	0.42
2:C:569:VAL:HA	2:C:570:PRO:HD3	1.79	0.42
2:C:1066:ALA:O	2:C:1069:ALA:HB3	2.20	0.42
3:D:85:VAL:CG2	3:D:89:ARG:HG3	2.49	0.42
3:D:85:VAL:HG22	3:D:89:ARG:HG3	1.99	0.42
3:D:102:ILE:O	3:D:105:VAL:N	2.51	0.42
3:D:119:SER:HB3	3:D:123:LEU:CG	2.43	0.42
3:D:128:TYR:CD1	3:D:457:GLY:CA	2.98	0.42
3:D:288:MET:CG	3:D:305:ALA:HB1	2.50	0.42
3:D:307:ALA:O	3:D:308:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:384:VAL:CG1	3:D:385:VAL:N	2.82	0.42
3:D:421:LEU:HB3	3:D:427:VAL:C	2.40	0.42
3:D:433:GLY:HA3	3:D:447:VAL:O	2.19	0.42
3:D:542:ASP:CA	3:D:545:ARG:HG3	2.50	0.42
3:D:545:ARG:HB2	3:D:546:ARG:H	1.64	0.42
3:D:673:ALA:C	3:D:676:MET:HB3	2.40	0.42
3:D:807:ALA:H	3:D:809:PRO:HD2	1.84	0.42
3:D:808:THR:N	3:D:809:PRO:CD	2.72	0.42
3:D:900:ILE:HG22	3:D:901:GLN:N	2.34	0.42
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.37	0.42
3:D:1128:VAL:HG23	3:D:1131:SER:HB3	1.91	0.42
3:D:1169:ASP:O	3:D:1170:ASP:C	2.57	0.42
4:E:33:HIS:O	4:E:34:GLY:C	2.57	0.42
4:E:88:GLU:HA	4:E:91:ARG:HD2	2.02	0.42
5:F:307:THR:O	5:F:310:ILE:N	2.52	0.42
1:K:151:VAL:HG12	1:K:156:HIS:ND1	2.34	0.42
1:K:167:VAL:HG12	1:K:168:ASP:O	2.19	0.42
1:K:185:ARG:HB2	1:K:190:THR:HG22	2.02	0.42
1:K:202:ASP:OD1	1:K:204:SER:N	2.53	0.42
1:L:10:VAL:O	1:L:10:VAL:CG2	2.68	0.42
2:M:25:SER:O	2:M:29:ALA:HB2	2.19	0.42
2:M:144:PRO:O	2:M:276:LYS:NZ	2.44	0.42
2:M:205:GLU:CA	2:M:209:ARG:HD3	2.49	0.42
2:M:558:ALA:O	2:M:559:LEU:C	2.57	0.42
2:M:602:GLU:HG2	2:M:603:VAL:N	2.33	0.42
2:M:602:GLU:CD	2:M:646:GLY:HA2	2.39	0.42
2:M:614:ARG:HG3	2:M:620:LEU:HD21	2.01	0.42
2:M:749:VAL:HG23	2:M:750:LYS:N	2.35	0.42
2:M:777:ILE:HG22	2:M:777:ILE:O	2.19	0.42
2:M:833:LEU:CD1	2:M:837:ASP:CB	2.98	0.42
3:N:82:LYS:HB2	3:N:84:ILE:CG2	2.34	0.42
3:N:169:TYR:HB3	3:N:195:VAL:CG1	2.50	0.42
3:N:819:GLY:CA	3:N:824:ASN:ND2	2.70	0.42
3:N:887:ALA:HA	3:N:890:VAL:CG2	2.47	0.42
3:N:998:GLU:OE2	3:N:1002:LYS:HE3	2.19	0.42
3:N:1071:PHE:O	3:N:1072:ILE:C	2.58	0.42
3:N:1155:VAL:HG11	3:N:1177:ALA:HB1	2.02	0.42
3:N:1194:CYS:SG	3:N:1195:GLN:N	2.92	0.42
4:O:40:LEU:HD13	4:O:72:ARG:NH2	2.34	0.42
5:P:96:LEU:O	5:P:100:VAL:HG23	2.19	0.42
5:P:135:ILE:C	5:P:137:GLY:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:215:GLU:OE1	5:P:215:GLU:HA	2.20	0.42
5:P:279:GLN:HA	5:P:286:PRO:CD	2.49	0.42
5:P:382:THR:HA	5:P:385:GLU:HB2	2.01	0.42
1:A:83:LYS:HE3	1:A:167:VAL:HG12	2.02	0.42
2:C:62:GLY:HA3	2:C:103:LYS:HB2	2.01	0.42
2:C:121:MET:HG3	2:C:127:PHE:CE1	2.54	0.42
2:C:141:HIS:HE1	2:C:144:PRO:HD3	1.85	0.42
2:C:177:GLU:HA	2:C:178:PRO:HD2	1.86	0.42
2:C:346:VAL:CG2	2:C:347:GLY:N	2.74	0.42
2:C:930:LYS:O	2:C:932:GLU:N	2.53	0.42
2:C:967:PHE:O	2:C:970:GLY:N	2.50	0.42
3:D:15:PRO:HB2	3:D:16:GLU:OE1	2.20	0.42
3:D:154:THR:CG2	3:D:156:GLU:OE2	2.67	0.42
3:D:185:VAL:HA	3:D:189:GLN:HE22	1.83	0.42
3:D:470:LEU:O	3:D:472:ALA:N	2.52	0.42
3:D:739:ASP:OD1	3:D:741:ASP:OD1	2.37	0.42
3:D:924:MET:CG	3:D:925:GLU:N	2.83	0.42
3:D:1078:ARG:C	3:D:1080:GLY:N	2.72	0.42
5:F:156:VAL:HG23	5:F:157:GLU:OE1	2.20	0.42
5:F:365:GLU:O	5:F:368:VAL:CG2	2.66	0.42
1:K:100:LEU:CD2	1:K:101:LEU:N	2.81	0.42
2:M:9:ILE:O	2:M:10:ARG:C	2.57	0.42
2:M:78:PHE:HD2	2:M:82:GLU:OE2	2.02	0.42
2:M:121:MET:SD	2:M:125:GLY:HA2	2.60	0.42
2:M:191:PHE:HE2	2:M:196:LEU:HD21	1.81	0.42
2:M:415:PRO:HG2	2:M:418:LEU:HD12	2.00	0.42
2:M:430:VAL:HG23	2:M:434:HIS:HD2	1.83	0.42
2:M:479:VAL:N	2:M:506:ASN:HB3	2.25	0.42
2:M:494:TYR:O	2:M:517:ARG:HA	2.20	0.42
2:M:573:ARG:HB2	2:M:670:GLN:HE22	1.84	0.42
2:M:657:ASP:O	2:M:658:GLY:O	2.37	0.42
2:M:712:ALA:O	2:M:820:ARG:N	2.37	0.42
2:M:762:LYS:HB2	2:M:786:LYS:HD2	2.02	0.42
2:M:1040:LEU:HD13	2:M:1049:LEU:CA	2.49	0.42
2:M:1076:VAL:HA	2:M:1077:PRO:HD3	1.80	0.42
3:N:13:ALA:HA	3:N:17:LYS:HD3	2.02	0.42
3:N:106:LYS:HB3	3:N:586:ARG:CZ	2.49	0.42
3:N:133:ILE:HG13	3:N:158:TYR:CG	2.54	0.42
3:N:407:VAL:CG2	3:N:408:GLU:N	2.63	0.42
3:N:1025:GLN:C	3:N:1027:GLY:N	2.73	0.42
3:N:1186:VAL:HA	3:N:1187:PRO:HD3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	2.00	0.42
4:O:29:GLN:C	4:O:31:LEU:N	2.73	0.42
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.19	0.42
5:P:302:LYS:O	5:P:306:GLU:HG2	2.20	0.42
5:P:321:ILE:HG13	5:P:332:PHE:CZ	2.51	0.42
1:A:5:LYS:C	1:A:7:LYS:H	2.21	0.42
1:A:31:GLY:O	1:A:32:PHE:C	2.58	0.42
1:A:79:ILE:HG13	1:A:79:ILE:H	1.46	0.42
1:B:91:ASN:C	1:B:91:ASN:ND2	2.72	0.42
2:C:402:SER:HA	2:C:566:THR:HG22	2.00	0.42
2:C:546:LEU:HD23	2:C:583:LEU:HD12	2.00	0.42
2:C:649:VAL:CA	2:C:650:ARG:HH21	2.24	0.42
2:C:737:LEU:HD11	2:C:741:GLY:O	2.20	0.42
2:C:742:VAL:HG12	2:C:743:VAL:H	1.83	0.42
2:C:1102:LEU:N	3:D:7:LYS:O	2.43	0.42
2:C:1114:GLY:O	2:C:1116:ALA:N	2.52	0.42
3:D:56:TYR:CE2	3:D:66:GLN:HG3	2.55	0.42
3:D:148:GLU:O	3:D:149:LYS:C	2.58	0.42
3:D:168:THR:OG1	3:D:206:ARG:NH1	2.53	0.42
3:D:231:VAL:O	3:D:231:VAL:HG12	2.19	0.42
3:D:511:TRP:CE3	3:D:511:TRP:CA	3.02	0.42
3:D:654:LYS:CB	3:D:655:PRO:CD	2.97	0.42
3:D:854:ALA:C	3:D:856:GLY:H	2.22	0.42
3:D:1042:ARG:HG2	3:D:1042:ARG:NH1	2.32	0.42
3:D:1191:PRO:O	3:D:1192:LEU:C	2.58	0.42
5:F:140:ARG:HH11	5:F:140:ARG:HG3	1.83	0.42
5:F:196:VAL:C	5:F:198:ILE:N	2.73	0.42
5:F:282:LEU:CG	5:F:284:ARG:HG2	2.36	0.42
5:F:421:PHE:HD2	5:F:422:LEU:N	2.17	0.42
1:L:82:LEU:C	1:L:84:GLU:N	2.73	0.42
1:L:210:ALA:O	1:L:213:GLN:HB2	2.18	0.42
2:M:18:LEU:HG	2:M:590:ASP:CG	2.40	0.42
2:M:164:PRO:HB2	2:M:263:ASP:O	2.17	0.42
2:M:401:LEU:O	2:M:404:LEU:N	2.52	0.42
2:M:425:PHE:HZ	3:N:1083:ASP:HB2	1.85	0.42
2:M:494:TYR:CD1	2:M:494:TYR:N	2.88	0.42
2:M:799:ILE:O	2:M:827:VAL:HG13	2.20	0.42
2:M:944:LEU:O	2:M:945:ARG:C	2.58	0.42
3:N:47:GLU:C	3:N:49:ILE:N	2.72	0.42
3:N:187:LYS:HE3	3:N:198:ARG:HG3	2.02	0.42
3:N:268:ALA:CB	3:N:290:PRO:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:729:HIS:HE1	3:N:935:LYS:HZ3	1.67	0.42
3:N:783:ARG:O	3:N:784:ASP:C	2.58	0.42
3:N:965:GLU:OE2	3:N:969:ARG:NE	2.42	0.42
3:N:1272:ALA:HB2	3:N:1328:GLY:CA	2.50	0.42
3:N:1342:GLU:N	3:N:1342:GLU:OE1	2.51	0.42
3:N:1344:VAL:O	3:N:1348:LEU:HG	2.19	0.42
3:N:1424:VAL:CG2	3:N:1425:THR:N	2.79	0.42
5:P:287:THR:O	5:P:288:TYR:C	2.58	0.42
5:P:312:GLN:OE1	5:P:312:GLN:CA	2.66	0.42
1:A:32:PHE:HZ	1:B:47:SER:HG	1.68	0.42
1:A:91:ASN:HA	1:A:92:PRO:HD3	1.93	0.42
1:A:96:THR:OG1	1:A:97:VAL:N	2.52	0.42
1:B:10:VAL:HG23	1:B:10:VAL:O	2.20	0.42
2:C:137:VAL:HG21	2:C:393:GLN:NE2	2.35	0.42
2:C:369:PRO:HB2	2:C:370:ALA:H	1.66	0.42
2:C:857:ASP:HB2	2:C:978:ARG:HG2	2.00	0.42
2:C:1084:SER:OG	2:C:1085:PHE:N	2.53	0.42
3:D:3:LYS:HE2	3:D:3:LYS:HB3	1.84	0.42
3:D:34:TYR:CG	3:D:35:ARG:N	2.88	0.42
3:D:209:ARG:HB2	3:D:389:GLU:HB3	2.00	0.42
3:D:258:VAL:O	3:D:258:VAL:HG12	2.20	0.42
3:D:493:ARG:O	3:D:1388:ARG:NH1	2.53	0.42
3:D:530:VAL:HG22	3:D:534:ARG:C	2.40	0.42
3:D:618:LEU:N	3:D:618:LEU:HD23	2.34	0.42
3:D:1496:GLU:OE1	3:D:1499:ARG:HD2	2.20	0.42
5:F:160:ASP:O	5:F:164:LYS:HG3	2.20	0.42
5:F:367:MET:HA	5:F:370:LYS:HE2	2.01	0.42
5:F:383:LEU:HG	5:F:394:ARG:HD3	2.00	0.42
1:K:221:HIS:C	1:K:223:THR:H	2.23	0.42
1:L:22:GLU:HA	1:L:197:LEU:O	2.19	0.42
1:L:99:LEU:N	1:L:142:VAL:O	2.53	0.42
1:L:117:VAL:HG12	1:L:118:ALA:N	2.35	0.42
2:M:397:GLU:OE2	2:M:631:SER:HA	2.19	0.42
2:M:455:LEU:HD11	2:M:459:ALA:HB3	2.02	0.42
2:M:480:THR:CG2	2:M:482:GLU:HB2	2.49	0.42
2:M:1092:LEU:H	2:M:1092:LEU:HG	1.55	0.42
3:N:127:LEU:O	3:N:130:SER:O	2.37	0.42
3:N:133:ILE:HG22	3:N:454:ALA:C	2.40	0.42
3:N:217:LYS:HD2	3:N:262:LYS:HZ1	1.84	0.42
3:N:880:ILE:O	3:N:881:LEU:C	2.58	0.42
3:N:1433:SER:HA	3:N:1457:ASP:CG	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1465:ASN:CG	3:N:1473:PRO:HD3	2.40	0.42
3:N:1489:GLN:CG	3:N:1492:LEU:HD12	2.50	0.42
5:P:130:VAL:O	5:P:131:VAL:C	2.56	0.42
1:A:36:LEU:N	1:A:36:LEU:HD12	2.33	0.42
1:A:104:GLU:CG	1:A:105:GLY:N	2.83	0.42
1:A:110:LYS:O	1:A:129:ILE:HD12	2.20	0.42
1:B:36:LEU:O	1:B:37:GLY:C	2.58	0.42
2:C:517:ARG:CA	2:C:520:GLU:HB2	2.50	0.42
2:C:572:ILE:HA	2:C:640:ARG:HH22	1.84	0.42
2:C:611:ILE:HD11	2:C:641:PRO:HB3	2.01	0.42
2:C:705:ILE:HD12	2:C:705:ILE:H	1.85	0.42
3:D:14:SER:O	3:D:17:LYS:N	2.53	0.42
3:D:217:LYS:HB2	3:D:339:TRP:HE1	1.80	0.42
3:D:266:GLU:O	3:D:314:PRO:HG3	2.19	0.42
3:D:325:GLU:CD	3:D:332:TYR:HB3	2.40	0.42
3:D:347:VAL:HG13	3:D:351:MET:CB	2.50	0.42
3:D:539:ASP:HB3	3:D:600:LEU:HD13	2.02	0.42
3:D:571:LYS:O	3:D:572:ARG:C	2.58	0.42
3:D:764:LEU:HD23	3:D:767:HIS:NE2	2.35	0.42
3:D:764:LEU:HG	3:D:766:ALA:H	1.85	0.42
3:D:847:ASP:O	3:D:848:GLU:C	2.58	0.42
3:D:1258:ARG:NH2	3:D:1351:GLU:HG3	2.35	0.42
3:D:1336:LEU:O	3:D:1340:GLY:CA	2.67	0.42
3:D:1465:ASN:O	3:D:1468:LEU:HB3	2.20	0.42
3:D:1479:ASP:N	3:D:1482:ARG:HG3	2.34	0.42
3:D:1483:PHE:H	3:D:1483:PHE:HD1	1.65	0.42
4:E:22:VAL:O	4:E:23:VAL:C	2.58	0.42
5:F:110:MET:CE	5:F:111:GLU:N	2.83	0.42
5:F:123:ASP:HA	5:F:124:PRO:HD3	1.90	0.42
5:F:161:GLN:O	5:F:165:SER:N	2.52	0.42
5:F:262:VAL:O	5:F:265:VAL:N	2.53	0.42
5:F:323:ASP:OD1	5:F:325:LYS:HD2	2.19	0.42
5:F:398:ARG:CD	5:F:399:GLN:N	2.83	0.42
1:K:79:ILE:HG13	1:K:79:ILE:H	1.63	0.42
1:K:179:PHE:HB3	1:K:197:LEU:CD2	2.50	0.42
2:M:86:LYS:NZ	2:M:811:PRO:O	2.53	0.42
2:M:252:LYS:C	2:M:255:ALA:HB3	2.39	0.42
2:M:317:VAL:H	2:M:318:PRO:HD3	1.75	0.42
2:M:373:VAL:CG1	2:M:374:ASN:N	2.77	0.42
2:M:560:MET:O	2:M:564:MET:HB2	2.20	0.42
2:M:610:ARG:HD2	2:M:622:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:631:SER:O	2:M:634:GLY:N	2.43	0.42
2:M:874:LEU:HD12	3:N:784:ASP:OD1	2.20	0.42
3:N:62:LYS:HE3	3:N:75:ARG:NH1	2.35	0.42
3:N:244:GLU:CG	3:N:245:LEU:N	2.80	0.42
3:N:272:LEU:CD1	3:N:282:TYR:HE1	2.32	0.42
3:N:294:HIS:O	3:N:303:PRO:HA	2.20	0.42
3:N:356:PRO:HD3	3:N:440:VAL:HB	2.01	0.42
3:N:846:PRO:O	3:N:849:ALA:N	2.53	0.42
3:N:857:ILE:C	3:N:858:VAL:HG23	2.39	0.42
3:N:868:TYR:HB3	3:N:873:LEU:CD1	2.49	0.42
3:N:868:TYR:HB3	3:N:873:LEU:HD11	2.01	0.42
3:N:1047:LYS:HD2	3:N:1051:GLU:CG	2.49	0.42
3:N:1223:ILE:HG22	3:N:1227:GLN:OE1	2.19	0.42
3:N:1330:ILE:HG22	3:N:1331:ASP:N	2.33	0.42
3:N:1376:MET:O	3:N:1377:LYS:C	2.58	0.42
3:N:1465:ASN:ND2	3:N:1473:PRO:HD3	2.35	0.42
5:P:287:THR:O	5:P:291:ILE:HG22	2.19	0.42
5:P:330:GLY:C	5:P:332:PHE:H	2.23	0.42
1:A:216:GLU:O	1:A:219:ARG:HB3	2.20	0.42
1:A:221:HIS:C	1:A:223:THR:H	2.24	0.42
1:B:104:GLU:CA	1:B:132:LEU:HD13	2.43	0.42
2:C:58:ASP:C	2:C:60:GLY:H	2.23	0.42
2:C:135:VAL:HG12	2:C:136:ILE:N	2.34	0.42
2:C:267:TYR:HB2	2:C:272:ALA:H	1.83	0.42
2:C:332:ARG:NH2	2:C:338:GLU:OE1	2.53	0.42
2:C:504:GLU:HG3	2:C:507:ARG:HB2	2.02	0.42
2:C:572:ILE:CG1	2:C:573:ARG:N	2.83	0.42
2:C:630:ARG:NE	2:C:634:GLY:HA2	2.35	0.42
2:C:1040:LEU:HD23	2:C:1040:LEU:HA	1.91	0.42
3:D:64:LYS:HD3	5:F:377:ASP:OD2	2.20	0.42
3:D:67:ARG:HA	3:D:67:ARG:HD3	1.80	0.42
3:D:102:ILE:HG23	3:D:103:TRP:N	2.34	0.42
3:D:432:TYR:H	3:D:432:TYR:HD1	1.67	0.42
3:D:470:LEU:O	3:D:471:GLU:C	2.57	0.42
3:D:686:GLU:H	3:D:686:GLU:CD	2.23	0.42
3:D:933:ALA:O	3:D:936:TYR:HB3	2.19	0.42
3:D:1035:ILE:O	3:D:1036:ARG:C	2.59	0.42
3:D:1150:ALA:HB3	3:D:1187:PRO:CB	2.49	0.42
3:D:1259:VAL:O	3:D:1262:LEU:HB2	2.20	0.42
3:D:1346:ARG:CG	3:D:1346:ARG:NH1	2.83	0.42
5:F:115:LYS:C	5:F:119:ILE:HG13	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:117:SER:HA	5:F:127:ILE:HD11	2.01	0.42
5:F:119:ILE:HG22	5:F:119:ILE:O	2.20	0.42
5:F:403:LYS:O	5:F:404:ALA:C	2.59	0.42
1:K:56:VAL:CG1	1:K:57:TYR:N	2.83	0.42
1:K:109:VAL:HG13	1:K:113:ASP:OD2	2.20	0.42
1:K:175:ARG:HG2	1:K:175:ARG:HH11	1.84	0.42
1:L:24:VAL:HG12	1:L:25:LEU:N	2.35	0.42
1:L:66:SER:C	1:L:75:VAL:HG23	2.39	0.42
2:M:34:VAL:N	2:M:35:PRO:HD3	2.35	0.42
2:M:141:HIS:CE1	2:M:332:ARG:HB3	2.55	0.42
2:M:227:PHE:HD1	2:M:227:PHE:H	1.67	0.42
2:M:258:TYR:O	2:M:290:LEU:CD1	2.67	0.42
2:M:354:GLY:HA2	2:M:357:GLU:OE2	2.19	0.42
2:M:360:LEU:C	2:M:362:GLY:H	2.22	0.42
2:M:414:GLY:N	2:M:419:THR:HG21	2.34	0.42
2:M:431:HIS:HE1	2:M:432:ARG:HG2	1.82	0.42
2:M:468:ARG:NE	2:M:487:THR:HG22	2.35	0.42
2:M:540:PHE:HB3	2:M:544:THR:CG2	2.49	0.42
2:M:857:ASP:HB3	2:M:978:ARG:HG2	2.01	0.42
2:M:976:ASP:O	2:M:978:ARG:N	2.53	0.42
2:M:1113:GLU:O	2:M:1113:GLU:CG	2.63	0.42
3:N:61:GLY:O	3:N:63:TYR:N	2.53	0.42
3:N:123:LEU:N	3:N:123:LEU:HD23	2.35	0.42
3:N:134:VAL:O	3:N:134:VAL:HG12	2.19	0.42
3:N:371:ILE:HG13	3:N:372:ASP:N	2.30	0.42
3:N:730:PRO:O	3:N:732:VAL:N	2.53	0.42
3:N:792:ILE:HG13	3:N:793:THR:N	2.31	0.42
3:N:930:LEU:O	3:N:934:LEU:HD12	2.20	0.42
3:N:944:THR:O	3:N:946:GLY:N	2.52	0.42
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.20	0.42
3:N:1226:ALA:O	3:N:1229:ILE:N	2.53	0.42
3:N:1333:HIS:O	3:N:1334:GLN:C	2.58	0.42
3:N:1347:TYR:O	3:N:1348:LEU:C	2.59	0.42
3:N:1429:LEU:HG	3:N:1429:LEU:O	2.20	0.42
3:N:1464:GLU:O	3:N:1465:ASN:C	2.57	0.42
4:O:80:VAL:HB	4:O:81:PRO:CD	2.49	0.42
5:P:382:THR:HG23	5:P:397:ILE:CB	2.50	0.42
5:P:409:LYS:O	5:P:412:GLU:N	2.53	0.42
1:A:43:ILE:O	1:A:47:SER:N	2.53	0.41
1:A:172:SER:HA	1:A:173:PRO:HD2	1.89	0.41
1:B:214:ALA:O	1:B:215:VAL:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:50:GLU:C	2:C:52:PHE:H	2.20	0.41
2:C:52:PHE:HD1	2:C:54:ILE:H	1.67	0.41
2:C:140:ILE:HD12	2:C:331:ARG:CZ	2.50	0.41
2:C:182:VAL:CG1	2:C:193:LEU:HB3	2.50	0.41
2:C:238:LEU:O	2:C:239:PHE:C	2.56	0.41
2:C:270:GLY:O	2:C:272:ALA:N	2.53	0.41
2:C:310:LEU:O	2:C:314:THR:HG23	2.20	0.41
2:C:351:LEU:HD13	2:C:374:ASN:O	2.20	0.41
2:C:461:VAL:CG2	2:C:467:ILE:HG12	2.50	0.41
2:C:673:LEU:HB3	2:C:867:VAL:HB	2.01	0.41
2:C:843:HIS:O	2:C:845:ASN:N	2.53	0.41
2:C:894:GLY:CA	2:C:901:TYR:OH	2.68	0.41
2:C:1047:HIS:NE2	3:D:754:PHE:CE1	2.88	0.41
3:D:317:VAL:HB	3:D:339:TRP:HB3	2.01	0.41
3:D:546:ARG:HH21	3:D:577:ALA:CB	2.33	0.41
3:D:550:ARG:NH1	3:D:573:MET:CB	2.82	0.41
3:D:591:VAL:O	3:D:593:ASN:N	2.53	0.41
3:D:800:LYS:CE	3:D:826:PRO:CD	2.94	0.41
3:D:884:ARG:O	3:D:885:ILE:C	2.58	0.41
3:D:895:VAL:HA	3:D:898:GLU:CD	2.40	0.41
3:D:1076:GLY:O	3:D:1080:GLY:N	2.48	0.41
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.42	0.41
3:D:1344:VAL:HG13	3:D:1345:GLU:H	1.79	0.41
5:F:291:ILE:CD1	5:F:295:MET:HB2	2.50	0.41
1:K:182:GLU:O	1:K:194:LYS:HB3	2.20	0.41
1:K:215:VAL:O	1:K:216:GLU:C	2.58	0.41
1:L:58:ILE:O	1:L:60:ASP:N	2.53	0.41
1:L:81:ASN:O	1:L:84:GLU:HB2	2.20	0.41
1:L:138:LEU:HD12	1:L:139:ASN:H	1.85	0.41
2:M:38:LYS:CG	2:M:39:ARG:N	2.80	0.41
2:M:139:GLN:O	2:M:334:ARG:N	2.52	0.41
2:M:193:LEU:O	2:M:194:VAL:C	2.58	0.41
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.98	0.41
2:M:218:VAL:HG13	2:M:222:MET:CE	2.49	0.41
2:M:402:SER:O	2:M:406:HIS:N	2.50	0.41
2:M:503:LEU:HD12	2:M:508:ILE:CA	2.36	0.41
2:M:504:GLU:O	2:M:504:GLU:HG3	2.20	0.41
2:M:639:GLN:HG2	2:M:658:GLY:HA2	2.00	0.41
2:M:1049:LEU:O	2:M:1052:MET:HB3	2.20	0.41
3:N:15:PRO:O	3:N:19:ARG:HG3	2.19	0.41
3:N:240:GLU:O	3:N:313:MET:N	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:256:GLU:O	3:N:274:ARG:HB2	2.20	0.41
3:N:259:VAL:HG11	3:N:293:VAL:CG1	2.50	0.41
3:N:262:LYS:NZ	3:N:339:TRP:HZ2	2.18	0.41
3:N:362:GLU:O	3:N:365:ASP:CB	2.67	0.41
3:N:434:ARG:HH21	3:N:451:ASP:CG	2.23	0.41
3:N:569:ASN:ND2	5:P:214:GLN:CD	2.73	0.41
3:N:661:MET:O	3:N:662:GLU:C	2.59	0.41
3:N:687:VAL:O	3:N:690:ALA:HB3	2.18	0.41
3:N:983:LEU:HD22	3:N:987:GLU:CB	2.49	0.41
3:N:1031:ASN:HB2	3:N:1032:PRO:HD2	2.02	0.41
3:N:1082:ALA:O	3:N:1083:ASP:C	2.58	0.41
3:N:1118:ILE:HG13	3:N:1188:VAL:HG13	2.02	0.41
3:N:1397:LYS:C	3:N:1398:TRP:HD1	2.23	0.41
4:O:33:HIS:CE1	4:O:89:MET:HG2	2.54	0.41
5:P:128:ARG:HH11	5:P:128:ARG:HG3	1.85	0.41
5:P:161:GLN:H	5:P:161:GLN:CD	2.23	0.41
5:P:210:LEU:O	5:P:213:ILE:HB	2.19	0.41
5:P:289:GLU:O	5:P:290:GLU:C	2.57	0.41
2:C:15:LEU:N	2:C:15:LEU:CD1	2.70	0.41
2:C:270:GLY:O	2:C:271:GLU:C	2.59	0.41
2:C:280:LYS:O	2:C:281:LEU:HD23	2.20	0.41
2:C:285:LEU:HD11	2:C:289:THR:CA	2.50	0.41
2:C:317:VAL:O	2:C:317:VAL:HG12	2.21	0.41
2:C:333:ILE:HG22	2:C:465:GLY:O	2.19	0.41
2:C:462:ASP:HB2	2:C:463:GLU:OE1	2.20	0.41
2:C:676:ILE:O	2:C:677:MET:HB3	2.19	0.41
2:C:1068:GLU:OE1	5:F:345:ALA:HA	2.21	0.41
2:C:1088:LEU:HA	2:C:1091:GLU:OE1	2.19	0.41
2:C:1088:LEU:HD22	10:D:1529:NE6:H17	2.00	0.41
2:C:1112:PHE:CD1	2:C:1116:ALA:HB2	2.55	0.41
3:D:127:LEU:CD2	3:D:128:TYR:H	2.27	0.41
3:D:353:VAL:HG12	3:D:368:VAL:HG21	2.01	0.41
3:D:466:LYS:O	3:D:468:LEU:N	2.54	0.41
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.55	0.41
3:D:563:PRO:C	3:D:565:ILE:H	2.23	0.41
3:D:925:GLU:HG2	4:E:7:ASP:OD2	2.19	0.41
3:D:1139:ASP:N	3:D:1139:ASP:OD1	2.51	0.41
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.41
4:E:4:PRO:C	4:E:6:ILE:H	2.23	0.41
4:E:10:PHE:C	4:E:12:MET:N	2.73	0.41
4:E:50:THR:O	4:E:55:PHE:HE1	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:66:LYS:O	4:E:69:LEU:HB2	2.20	0.41
5:F:274:THR:HG22	5:F:278:LEU:HD21	2.02	0.41
5:F:380:GLU:C	5:F:382:THR:H	2.22	0.41
1:K:36:LEU:N	1:K:36:LEU:HD12	2.35	0.41
1:L:28:LEU:CD1	1:L:33:GLY:N	2.83	0.41
1:L:149:GLY:H	1:L:172:SER:HB2	1.85	0.41
2:M:95:TYR:CD1	2:M:114:PHE:HB3	2.55	0.41
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.87	0.41
2:M:217:LEU:C	2:M:219:GLN:N	2.70	0.41
2:M:303:PHE:HD1	2:M:303:PHE:H	1.67	0.41
2:M:676:ILE:O	2:M:677:MET:HB3	2.20	0.41
2:M:914:ILE:O	2:M:915:LYS:C	2.58	0.41
2:M:1017:THR:HB	2:M:1019:GLN:HE21	1.84	0.41
3:N:9:ARG:HG2	3:N:10:ILE:N	2.35	0.41
3:N:84:ILE:C	3:N:86:ARG:H	2.23	0.41
3:N:156:GLU:OE2	3:N:156:GLU:N	2.47	0.41
3:N:225:LEU:N	3:N:331:VAL:O	2.53	0.41
3:N:277:GLU:HG3	3:N:278:PRO:HD2	2.03	0.41
3:N:434:ARG:NH1	3:N:449:SER:OG	2.52	0.41
3:N:481:MET:O	3:N:489:ARG:HG3	2.19	0.41
3:N:851:LEU:N	3:N:851:LEU:HD23	2.35	0.41
3:N:855:HIS:O	3:N:856:GLY:C	2.59	0.41
3:N:960:LYS:HE2	3:N:1063:GLU:OE1	2.19	0.41
3:N:1262:LEU:HD22	3:N:1352:ILE:CG1	2.50	0.41
5:P:245:GLN:CD	5:P:245:GLN:N	2.72	0.41
1:B:6:LEU:C	1:B:8:ALA:N	2.74	0.41
2:C:192:PRO:HB2	2:C:195:LEU:CD2	2.28	0.41
2:C:266:ARG:HH11	2:C:266:ARG:CG	2.24	0.41
2:C:311:PHE:CD2	2:C:311:PHE:N	2.88	0.41
2:C:549:PHE:HE1	2:C:909:ALA:HB3	1.84	0.41
2:C:572:ILE:HG13	2:C:573:ARG:H	1.84	0.41
2:C:631:SER:O	2:C:632:ASN:C	2.59	0.41
2:C:681:GLY:HA3	3:D:939:PHE:CE1	2.55	0.41
2:C:1095:LEU:O	3:D:101:HIS:NE2	2.54	0.41
3:D:71:LYS:N	3:D:80:VAL:CG2	2.83	0.41
3:D:569:ASN:HD21	5:F:214:GLN:CD	2.23	0.41
3:D:573:MET:HG3	3:D:573:MET:H	1.58	0.41
3:D:630:VAL:N	3:D:744:GLN:HG2	2.34	0.41
3:D:710:ARG:O	3:D:712:GLY:N	2.52	0.41
3:D:767:HIS:HA	3:D:924:MET:CE	2.50	0.41
3:D:794:GLN:O	3:D:861:GLN:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:821:VAL:C	3:D:823:LEU:N	2.73	0.41
3:D:901:GLN:O	3:D:904:VAL:HG22	2.20	0.41
3:D:1031:ASN:CG	3:D:1034:GLN:HE21	2.24	0.41
3:D:1041:LEU:HD12	3:D:1057:VAL:O	2.21	0.41
3:D:1189:ARG:NH1	3:D:1203:LYS:HG3	2.36	0.41
3:D:1333:HIS:O	3:D:1334:GLN:C	2.59	0.41
3:D:1404:ASN:CA	3:D:1408:ILE:HB	2.46	0.41
4:E:26:ARG:HE	4:E:30:LEU:HD22	1.85	0.41
5:F:170:HIS:O	5:F:173:TYR:N	2.53	0.41
5:F:205:ARG:HD2	5:F:251:ILE:HD13	2.01	0.41
5:F:287:THR:H	5:F:290:GLU:CD	2.24	0.41
1:K:5:LYS:C	1:K:7:LYS:N	2.72	0.41
1:K:73:GLU:CG	1:K:130:ALA:HA	2.50	0.41
2:M:37:GLU:CB	2:M:71:TYR:HE2	2.34	0.41
2:M:252:LYS:CA	2:M:255:ALA:HB3	2.51	0.41
2:M:432:ARG:NH1	2:M:518:LYS:O	2.52	0.41
2:M:461:VAL:CG2	2:M:467:ILE:HG12	2.51	0.41
2:M:679:PHE:HA	3:N:943:THR:CG2	2.37	0.41
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.85	0.41
2:M:1066:ALA:O	2:M:1067:TYR:C	2.57	0.41
2:M:1098:ASP:O	3:N:9:ARG:O	2.38	0.41
3:N:32:ILE:CG2	3:N:37:LEU:HA	2.50	0.41
3:N:131:LYS:HA	3:N:456:MET:CE	2.51	0.41
3:N:265:GLU:HB2	3:N:316:GLN:OE1	2.20	0.41
3:N:692:GLU:O	3:N:695:ILE:HB	2.21	0.41
3:N:711:LEU:CD2	3:N:778:LEU:HD23	2.43	0.41
3:N:794:GLN:HG3	3:N:1017:PHE:CZ	2.55	0.41
3:N:1070:TYR:O	3:N:1071:PHE:C	2.57	0.41
3:N:1379:VAL:O	3:N:1392:GLY:HA2	2.19	0.41
3:N:1436:SER:O	3:N:1439:SER:N	2.52	0.41
5:P:151:LEU:O	5:P:156:VAL:HG22	2.20	0.41
5:P:184:ARG:O	5:P:185:GLN:C	2.58	0.41
5:P:251:ILE:O	5:P:255:ALA:HB2	2.21	0.41
5:P:393:THR:CG2	5:P:394:ARG:N	2.83	0.41
5:P:406:ARG:O	5:P:407:LYS:C	2.59	0.41
1:B:58:ILE:O	1:B:59:GLU:C	2.58	0.41
2:C:41:ASN:O	2:C:46:ALA:N	2.53	0.41
2:C:267:TYR:HD2	2:C:268:ASP:H	1.68	0.41
2:C:437:ARG:NH2	2:C:487:THR:C	2.74	0.41
2:C:486:MET:HE1	2:C:491:GLU:HA	2.01	0.41
2:C:694:LEU:CD2	2:C:697:ARG:HH22	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:726:ILE:O	2:C:728:HIS:N	2.54	0.41
2:C:897:LEU:HD21	2:C:921:ALA:N	2.35	0.41
3:D:95:LEU:CB	3:D:515:GLU:HA	2.41	0.41
3:D:192:ALA:H	3:D:195:VAL:HB	1.84	0.41
3:D:403:PHE:CD1	3:D:404:GLU:N	2.88	0.41
3:D:403:PHE:CE2	3:D:442:ASN:HB3	2.54	0.41
3:D:472:ALA:O	3:D:473:LEU:C	2.57	0.41
3:D:612:GLY:O	3:D:616:GLN:HG2	2.20	0.41
3:D:660:LYS:O	3:D:661:MET:C	2.58	0.41
3:D:822:ALA:HB3	3:D:824:ASN:ND2	2.35	0.41
3:D:1106:VAL:HG11	3:D:1474:ALA:CB	2.50	0.41
3:D:1197:ARG:O	3:D:1198:TYR:CD1	2.74	0.41
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.55	0.41
5:F:220:LEU:O	5:F:224:VAL:HG23	2.20	0.41
5:F:260:ILE:HD11	5:F:264:MET:HB3	2.01	0.41
5:F:271:LEU:HB2	5:F:272:SER:H	1.71	0.41
5:F:367:MET:HG2	5:F:370:LYS:HE2	2.01	0.41
1:K:206:THR:HG22	1:K:208:LEU:N	2.35	0.41
1:L:55:SER:CB	1:L:166:PRO:HA	2.51	0.41
2:M:45:GLN:HA	2:M:48:PHE:HD1	1.85	0.41
2:M:148:PHE:H	2:M:323:ASP:CG	2.20	0.41
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.19	0.41
2:M:713:ARG:HA	2:M:818:GLY:O	2.19	0.41
2:M:987:ILE:HG22	2:M:988:VAL:O	2.21	0.41
3:N:15:PRO:HD2	3:N:16:GLU:OE2	2.20	0.41
3:N:69:GLU:HG3	3:N:70:GLY:N	2.36	0.41
3:N:139:GLY:CA	3:N:147:VAL:HB	2.49	0.41
3:N:191:LEU:HB3	3:N:195:VAL:HB	2.03	0.41
3:N:217:LYS:HE3	3:N:341:GLU:OE1	2.19	0.41
3:N:436:GLU:HB2	3:N:445:ARG:O	2.20	0.41
3:N:531:ASP:O	3:N:532:GLY:C	2.59	0.41
3:N:547:LEU:O	3:N:548:ILE:C	2.59	0.41
3:N:572:ARG:HD3	5:P:83:GLN:OE1	2.20	0.41
3:N:827:ILE:CG2	3:N:837:GLY:HA3	2.50	0.41
3:N:1021:TYR:O	3:N:1022:VAL:C	2.59	0.41
3:N:1078:ARG:O	3:N:1079:LYS:C	2.58	0.41
3:N:1117:TYR:HD1	3:N:1118:ILE:N	2.17	0.41
3:N:1226:ALA:O	3:N:1227:GLN:C	2.57	0.41
3:N:1489:GLN:NE2	4:O:72:ARG:C	2.74	0.41
3:N:1489:GLN:HE22	4:O:73:LEU:N	2.16	0.41
4:O:81:PRO:O	4:O:85:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:373:LYS:C	5:P:375:LEU:N	2.74	0.41
5:P:382:THR:O	5:P:385:GLU:N	2.54	0.41
1:A:33:GLY:HA2	1:A:195:LEU:HB2	2.03	0.41
1:A:222:LEU:O	1:A:225:PHE:HD1	2.02	0.41
1:B:112:ARG:HG3	1:B:113:ASP:N	2.35	0.41
2:C:333:ILE:HG21	2:C:461:VAL:HG21	2.02	0.41
2:C:375:SER:O	2:C:376:ARG:C	2.59	0.41
2:C:583:LEU:O	2:C:584:GLU:C	2.59	0.41
2:C:662:GLU:C	2:C:664:GLY:N	2.74	0.41
2:C:754:ILE:HG12	2:C:791:ARG:HD2	2.02	0.41
2:C:1001:VAL:O	2:C:1004:LYS:HB3	2.20	0.41
2:C:1041:GLU:O	2:C:1044:GLY:N	2.54	0.41
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.77	0.41
3:D:219:GLU:O	3:D:337:LEU:HG	2.21	0.41
3:D:241:ILE:CG1	3:D:312:ARG:CZ	2.97	0.41
3:D:262:LYS:O	3:D:268:ALA:HA	2.20	0.41
3:D:361:VAL:HG13	3:D:379:ALA:CB	2.32	0.41
3:D:443:VAL:CG1	3:D:444:VAL:N	2.84	0.41
3:D:735:ALA:C	3:D:737:ASN:H	2.23	0.41
3:D:932:ASP:HA	3:D:935:LYS:HB3	2.03	0.41
3:D:986:ARG:O	3:D:987:GLU:C	2.59	0.41
3:D:1074:SER:O	3:D:1077:ALA:N	2.53	0.41
3:D:1315:ASP:O	3:D:1316:GLY:C	2.59	0.41
3:D:1374:GLN:HA	3:D:1374:GLN:OE1	2.20	0.41
3:D:1466:VAL:C	3:D:1468:LEU:H	2.22	0.41
3:D:1494:ALA:HB2	4:E:92:ILE:HD11	2.01	0.41
5:F:135:ILE:C	5:F:137:GLY:H	2.23	0.41
5:F:209:PHE:HA	5:F:212:LEU:HG	2.02	0.41
1:K:9:PRO:HA	1:K:27:PRO:HD2	2.02	0.41
1:K:89:PHE:CD2	1:K:94:LEU:HB3	2.55	0.41
1:K:110:LYS:O	1:K:113:ASP:OD2	2.39	0.41
1:K:222:LEU:HA	1:K:225:PHE:CD1	2.54	0.41
1:L:28:LEU:CD2	1:L:29:GLU:N	2.82	0.41
1:L:165:ILE:HG23	1:L:166:PRO:HD2	2.01	0.41
2:M:83:CYS:SG	2:M:90:TYR:HA	2.61	0.41
2:M:141:HIS:CB	2:M:418:LEU:HD22	2.50	0.41
2:M:150:PRO:HA	2:M:158:TYR:CB	2.20	0.41
2:M:180:GLY:HA2	2:M:223:ASP:OD2	2.21	0.41
2:M:185:LYS:NZ	2:M:190:LYS:HZ2	2.17	0.41
2:M:202:TYR:CB	2:M:207:LEU:HD21	2.51	0.41
2:M:691:SER:HB3	2:M:868:ASP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:780:GLU:OE1	2:M:780:GLU:HA	2.20	0.41
2:M:795:GLY:O	2:M:796:GLU:HG2	2.21	0.41
2:M:922:PHE:CE2	2:M:964:LYS:HB2	2.56	0.41
2:M:1045:ALA:HA	3:N:758:GLU:HB3	2.02	0.41
3:N:39:PRO:HB3	3:N:45:PHE:C	2.41	0.41
3:N:217:LYS:HD2	3:N:339:TRP:CZ2	2.56	0.41
3:N:250:LEU:CD1	3:N:306:GLU:HG2	2.51	0.41
3:N:272:LEU:HD12	3:N:282:TYR:HE1	1.86	0.41
3:N:309:GLY:O	3:N:311:LEU:HG	2.20	0.41
3:N:521:PRO:HD2	3:N:524:LEU:HD12	2.02	0.41
3:N:560:GLN:HA	5:P:132:ARG:HH12	1.85	0.41
3:N:631:ILE:CG2	3:N:745:MET:HB2	2.49	0.41
3:N:1147:ARG:HB3	3:N:1188:VAL:HG23	2.01	0.41
3:N:1346:ARG:O	3:N:1347:TYR:C	2.58	0.41
3:N:1399:ASP:HB3	3:N:1400:VAL:H	1.76	0.41
5:P:117:SER:OG	5:P:124:PRO:HG3	2.20	0.41
1:A:123:MET:O	1:A:125:PRO:HD2	2.21	0.41
2:C:196:LEU:O	2:C:200:LEU:HG	2.21	0.41
2:C:343:GLN:HG2	2:C:385:PHE:CB	2.50	0.41
2:C:396:ASP:CB	2:C:406:HIS:HD2	2.34	0.41
2:C:444:PRO:CG	2:C:452:ILE:HB	2.51	0.41
2:C:449:ILE:O	2:C:451:LEU:HG	2.20	0.41
2:C:459:ALA:HB1	2:C:467:ILE:CG2	2.50	0.41
2:C:677:MET:N	2:C:871:LEU:O	2.53	0.41
2:C:876:VAL:O	2:C:877:PRO:C	2.59	0.41
3:D:342:PRO:O	3:D:343:LYS:CG	2.67	0.41
3:D:470:LEU:H	3:D:470:LEU:HG	1.62	0.41
3:D:546:ARG:HG3	3:D:547:LEU:H	1.85	0.41
3:D:547:LEU:O	3:D:548:ILE:C	2.58	0.41
3:D:1304:LYS:O	3:D:1305:LEU:HB3	2.21	0.41
3:D:1447:LEU:O	3:D:1450:ALA:N	2.54	0.41
4:E:7:ASP:CA	4:E:10:PHE:HD1	2.28	0.41
4:E:26:ARG:NE	4:E:30:LEU:HD22	2.34	0.41
4:E:26:ARG:NH2	4:E:38:THR:HA	2.34	0.41
5:F:135:ILE:CD1	5:F:181:GLU:HB3	2.50	0.41
5:F:170:HIS:HA	5:F:173:TYR:CD1	2.56	0.41
5:F:231:ARG:HB2	5:F:233:PHE:CE2	2.55	0.41
5:F:346:THR:O	5:F:349:LEU:HB3	2.21	0.41
1:K:36:LEU:O	1:K:37:GLY:C	2.58	0.41
1:K:86:VAL:HG13	1:K:123:MET:CB	2.43	0.41
1:K:143:ARG:NH1	1:K:158:ILE:HD12	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:VAL:HG12	1:L:129:ILE:HD12	2.01	0.41
1:L:176:ARG:HD3	3:N:884:ARG:HH22	1.83	0.41
2:M:27:ARG:C	2:M:29:ALA:H	2.23	0.41
2:M:135:VAL:HG23	2:M:395:LYS:HA	2.02	0.41
2:M:194:VAL:C	2:M:197:LEU:HG	2.41	0.41
2:M:293:PHE:CD1	2:M:293:PHE:C	2.94	0.41
2:M:360:LEU:HB2	2:M:361:MET:SD	2.61	0.41
2:M:461:VAL:HG23	2:M:467:ILE:HG12	2.02	0.41
2:M:770:GLU:OE1	3:N:65:ARG:NH2	2.53	0.41
2:M:854:PRO:O	2:M:857:ASP:OD2	2.38	0.41
2:M:874:LEU:O	2:M:876:VAL:N	2.54	0.41
3:N:22:SER:C	3:N:24:GLY:N	2.74	0.41
3:N:133:ILE:HG13	3:N:153:LEU:HD23	2.02	0.41
3:N:179:VAL:HG13	3:N:180:LYS:N	2.36	0.41
3:N:213:VAL:CG1	3:N:215:TYR:CE2	3.04	0.41
3:N:217:LYS:CB	3:N:339:TRP:HE1	2.15	0.41
3:N:230:TRP:CE2	3:N:233:LYS:HE3	2.55	0.41
3:N:348:GLN:H	3:N:351:MET:CE	2.15	0.41
3:N:472:ALA:O	3:N:473:LEU:C	2.58	0.41
3:N:573:MET:HE1	5:P:211:ASP:OD1	2.21	0.41
3:N:637:LEU:O	3:N:935:LYS:NZ	2.53	0.41
3:N:1424:VAL:O	3:N:1425:THR:C	2.58	0.41
3:N:1442:ASN:C	3:N:1442:ASN:ND2	2.74	0.41
4:O:42:PRO:O	4:O:43:GLU:C	2.59	0.41
5:P:224:VAL:O	5:P:227:PHE:HB3	2.20	0.41
5:P:300:ASP:OD1	5:P:301:ALA:N	2.54	0.41
1:A:38:ASN:N	1:A:179:PHE:CE2	2.88	0.41
1:A:179:PHE:HB3	1:A:197:LEU:CD2	2.50	0.41
1:B:112:ARG:C	1:B:114:PHE:N	2.71	0.41
1:B:206:THR:HG22	1:B:208:LEU:N	2.36	0.41
2:C:424:GLY:O	2:C:425:PHE:C	2.58	0.41
2:C:512:ARG:HD2	2:C:523:ILE:HG12	2.02	0.41
3:D:72:VAL:CG1	3:D:73:CYS:N	2.83	0.41
3:D:121:THR:O	3:D:125:GLN:HB3	2.21	0.41
3:D:156:GLU:HG2	3:D:157:GLU:N	2.35	0.41
3:D:162:ARG:O	3:D:449:SER:HB2	2.20	0.41
3:D:205:TYR:OH	3:D:445:ARG:NH2	2.53	0.41
3:D:214:GLU:HG2	3:D:342:PRO:CA	2.50	0.41
3:D:353:VAL:O	3:D:353:VAL:HG23	2.21	0.41
3:D:508:ARG:HB2	3:D:511:TRP:CE2	2.56	0.41
3:D:536:ALA:C	5:F:317:LEU:HD21	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:550:ARG:NH1	3:D:573:MET:C	2.74	0.41
3:D:965:GLU:C	3:D:967:ALA:N	2.73	0.41
3:D:1006:ALA:O	3:D:1009:LYS:HB3	2.21	0.41
3:D:1114:THR:HA	3:D:1195:GLN:CD	2.41	0.41
3:D:1114:THR:HA	3:D:1195:GLN:NE2	2.35	0.41
3:D:1299:PHE:CD1	3:D:1299:PHE:N	2.86	0.41
3:D:1307:LYS:CE	3:D:1307:LYS:N	2.76	0.41
3:D:1400:VAL:HA	3:D:1408:ILE:HD12	2.02	0.41
3:D:1418:LYS:HA	3:D:1419:PRO:HD3	1.95	0.41
3:D:1491:THR:O	3:D:1491:THR:HG22	2.20	0.41
5:F:116:LEU:O	5:F:119:ILE:N	2.53	0.41
5:F:278:LEU:O	5:F:279:GLN:C	2.57	0.41
5:F:417:LYS:O	5:F:419:ARG:N	2.53	0.41
1:K:213:GLN:O	1:K:216:GLU:HB3	2.20	0.41
1:L:56:VAL:CG1	1:L:57:TYR:N	2.83	0.41
1:L:188:GLN:HG3	1:L:189:ARG:N	2.35	0.41
2:M:63:GLY:H	2:M:103:LYS:HB2	1.85	0.41
2:M:186:VAL:HG22	2:M:187:ASN:N	2.35	0.41
2:M:437:ARG:HG3	2:M:437:ARG:NH1	2.36	0.41
2:M:754:ILE:HG12	2:M:791:ARG:CD	2.50	0.41
2:M:1015:LEU:HD12	5:P:335:ASP:HB2	2.02	0.41
2:M:1050:GLN:O	2:M:1051:GLU:C	2.59	0.41
3:N:14:SER:O	3:N:18:ILE:HG13	2.21	0.41
3:N:101:HIS:C	3:N:101:HIS:ND1	2.73	0.41
3:N:133:ILE:O	3:N:153:LEU:HB3	2.21	0.41
3:N:210:ARG:HD2	3:N:389:GLU:OE2	2.21	0.41
3:N:322:VAL:HG22	3:N:323:GLU:N	2.36	0.41
3:N:350:HIS:O	3:N:370:ALA:HA	2.21	0.41
3:N:536:ALA:HB1	5:P:317:LEU:HD23	2.01	0.41
3:N:564:GLU:HA	3:N:567:ILE:HB	2.03	0.41
3:N:650:LEU:O	3:N:651:GLU:C	2.57	0.41
3:N:664:LYS:HB2	3:N:666:ILE:HG12	2.01	0.41
3:N:792:ILE:O	3:N:878:GLY:HA3	2.20	0.41
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.21	0.41
3:N:1066:THR:HB	3:N:1069:GLU:HG3	2.03	0.41
3:N:1118:ILE:CG1	3:N:1190:SER:HB2	2.49	0.41
3:N:1224:VAL:HA	3:N:1227:GLN:OE1	2.21	0.41
3:N:1388:ARG:HG2	3:N:1391:GLU:HG3	2.02	0.41
4:O:76:GLY:HA3	4:O:79:LEU:CD2	2.42	0.41
5:P:97:GLU:H	5:P:97:GLU:HG3	1.71	0.41
5:P:308:LEU:HD23	5:P:308:LEU:N	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:353:GLU:CA	5:P:356:LYS:HB2	2.51	0.41
5:P:364:ARG:O	5:P:367:MET:HG3	2.21	0.41
1:A:151:VAL:O	1:A:156:HIS:HE1	2.04	0.41
1:B:20:TYR:C	1:B:207:PRO:HG2	2.41	0.41
1:B:20:TYR:CG	1:B:21:GLY:N	2.88	0.41
2:C:60:GLY:C	2:C:62:GLY:H	2.24	0.41
2:C:62:GLY:HA3	2:C:103:LYS:CG	2.50	0.41
2:C:167:LYS:HG2	2:C:167:LYS:O	2.20	0.41
2:C:334:ARG:HD2	2:C:418:LEU:HD13	2.02	0.41
2:C:382:ILE:O	2:C:383:ARG:C	2.58	0.41
2:C:446:GLY:O	2:C:449:ILE:N	2.45	0.41
2:C:573:ARG:HB2	2:C:670:GLN:HE22	1.83	0.41
2:C:611:ILE:HG22	2:C:612:VAL:N	2.36	0.41
2:C:680:ASP:H	3:D:943:THR:HG1	1.63	0.41
2:C:724:ARG:CD	2:C:738:ASP:HA	2.50	0.41
2:C:1086:ARG:O	2:C:1087:VAL:C	2.59	0.41
2:C:1118:LYS:O	2:C:1119:ARG:HB2	2.20	0.41
3:D:46:ASP:C	3:D:48:ARG:H	2.24	0.41
3:D:46:ASP:OD2	3:D:48:ARG:HB2	2.21	0.41
3:D:119:SER:H	3:D:123:LEU:HG	1.80	0.41
3:D:221:ALA:O	3:D:334:THR:HG22	2.20	0.41
3:D:247:GLU:HA	3:D:248:PRO:HA	1.94	0.41
3:D:318:ARG:CG	3:D:319:ALA:H	2.33	0.41
3:D:403:PHE:CD1	3:D:403:PHE:C	2.93	0.41
3:D:536:ALA:HA	5:F:315:VAL:O	2.21	0.41
3:D:541:ASN:O	3:D:545:ARG:CG	2.69	0.41
3:D:592:THR:HG23	3:D:600:LEU:HD21	2.02	0.41
3:D:630:VAL:HA	3:D:744:GLN:HG2	2.01	0.41
3:D:700:VAL:O	3:D:701:LEU:HD23	2.21	0.41
3:D:1019:PRO:O	3:D:1022:VAL:HB	2.21	0.41
3:D:1269:LYS:CD	3:D:1269:LYS:N	2.84	0.41
3:D:1347:TYR:O	3:D:1348:LEU:C	2.58	0.41
3:D:1384:PRO:CB	3:D:1387:SER:O	2.68	0.41
5:F:367:MET:HB3	5:F:371:LEU:CG	2.50	0.41
5:F:372:ARG:HG3	5:F:378:GLY:C	2.39	0.41
5:F:382:THR:C	5:F:384:GLU:N	2.74	0.41
5:F:385:GLU:CA	5:F:388:ALA:HB3	2.30	0.41
1:L:111:ALA:HB2	1:L:127:LEU:HB3	2.02	0.41
1:L:143:ARG:C	1:L:143:ARG:CD	2.88	0.41
2:M:198:ARG:HG3	2:M:231:PRO:HA	2.03	0.41
2:M:255:ALA:O	2:M:257:VAL:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:408:ARG:CD	2:M:542:VAL:HG13	2.51	0.41
2:M:928:LYS:HG2	2:M:932:GLU:HG3	2.03	0.41
3:N:187:LYS:HG3	3:N:198:ARG:HG3	2.03	0.41
3:N:204:LEU:HD12	3:N:205:TYR:N	2.35	0.41
3:N:325:GLU:H	3:N:331:VAL:HG13	1.86	0.41
3:N:581:LEU:O	3:N:582:LEU:C	2.59	0.41
3:N:583:ASP:HA	3:N:602:SER:OG	2.20	0.41
3:N:806:PHE:CE1	3:N:816:HIS:CE1	3.09	0.41
3:N:812:ALA:HA	3:N:816:HIS:N	2.35	0.41
3:N:1078:ARG:C	3:N:1080:GLY:N	2.74	0.41
3:N:1129:THR:CG2	3:N:1130:ARG:N	2.84	0.41
3:N:1174:LEU:H	3:N:1174:LEU:HG	1.55	0.41
4:O:6:ILE:HD11	4:O:10:PHE:CZ	2.56	0.41
5:P:102:LEU:HD21	5:P:187:LEU:H	1.86	0.41
5:P:239:ALA:C	5:P:241:TRP:N	2.72	0.41
5:P:268:ILE:CA	5:P:271:LEU:HG	2.51	0.41
5:P:403:LYS:HZ3	5:P:407:LYS:HE2	1.86	0.41
1:A:43:ILE:HG23	1:A:47:SER:CB	2.51	0.41
1:A:77:GLU:O	1:A:81:ASN:ND2	2.54	0.41
1:A:87:VAL:HG21	1:A:144:VAL:HG11	2.03	0.41
1:B:19:GLU:HG2	1:B:203:GLY:HA2	2.02	0.41
1:B:58:ILE:HA	1:B:140:MET:HA	2.03	0.41
1:B:95:GLN:NE2	1:B:146:ARG:NH1	2.69	0.41
2:C:101:ILE:HG12	2:C:107:LEU:HA	2.01	0.41
2:C:139:GLN:HG2	2:C:391:LEU:CD2	2.51	0.41
2:C:172:ILE:HG23	2:C:184:MET:HE3	2.02	0.41
2:C:300:ASP:OD1	2:C:303:PHE:N	2.53	0.41
2:C:316:GLY:C	2:C:318:PRO:HD3	2.40	0.41
2:C:410:ILE:N	2:C:453:THR:O	2.50	0.41
2:C:468:ARG:HG2	2:C:487:THR:HG22	2.03	0.41
2:C:575:GLN:C	2:C:667:ALA:HB1	2.40	0.41
2:C:589:ARG:HG2	2:C:596:TYR:CE2	2.56	0.41
2:C:631:SER:HB3	2:C:635:THR:H	1.82	0.41
2:C:773:LEU:O	2:C:774:LEU:C	2.59	0.41
2:C:841:ASN:C	2:C:843:HIS:N	2.74	0.41
2:C:854:PRO:O	2:C:855:VAL:C	2.58	0.41
2:C:1016:ILE:O	2:C:1018:GLN:HG2	2.21	0.41
3:D:142:LEU:HD22	3:D:144:GLY:O	2.20	0.41
3:D:217:LYS:HB2	3:D:339:TRP:CD1	2.56	0.41
3:D:264:LEU:HB2	3:D:267:GLY:CA	2.50	0.41
3:D:499:VAL:O	3:D:500:ARG:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:550:ARG:HD2	3:D:577:ALA:HB2	2.02	0.41
3:D:552:ASN:HA	3:D:555:LYS:CD	2.38	0.41
3:D:564:GLU:HA	3:D:567:ILE:CB	2.51	0.41
3:D:564:GLU:CA	3:D:567:ILE:HB	2.50	0.41
3:D:567:ILE:HG13	5:F:140:ARG:NH2	2.36	0.41
3:D:922:LEU:O	3:D:923:GLY:O	2.38	0.41
3:D:939:PHE:O	3:D:940:THR:C	2.58	0.41
3:D:989:TYR:O	3:D:990:ASP:C	2.58	0.41
3:D:1046:GLN:HB2	3:D:1052:THR:HA	2.01	0.41
3:D:1096:ARG:HG2	6:D:1528:PO4:O2	2.21	0.41
3:D:1149:LEU:HD23	3:D:1160:LEU:O	2.21	0.41
3:D:1194:CYS:HB2	3:D:1204:CYS:HB3	2.03	0.41
3:D:1253:THR:CG2	3:D:1257:PRO:HB2	2.50	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.33	0.41
3:D:1278:ASP:HB3	3:D:1318:TYR:OH	2.21	0.41
3:D:1296:SER:C	3:D:1298:GLY:N	2.74	0.41
3:D:1464:GLU:HG3	3:D:1465:ASN:H	1.85	0.41
3:D:1495:ILE:HA	4:E:84:ARG:HD3	2.03	0.41
4:E:85:LEU:H	4:E:85:LEU:CD2	2.27	0.41
5:F:151:LEU:C	5:F:153:PRO:HD2	2.41	0.41
5:F:152:ASP:O	5:F:156:VAL:HG21	2.21	0.41
5:F:161:GLN:O	5:F:165:SER:CB	2.68	0.41
5:F:222:ARG:CG	5:F:242:TRP:CZ3	3.04	0.41
5:F:245:GLN:O	5:F:246:ALA:C	2.59	0.41
5:F:257:THR:O	5:F:258:ILE:HD13	2.20	0.41
5:F:269:ASN:C	5:F:271:LEU:N	2.74	0.41
5:F:370:LYS:O	5:F:374:GLY:N	2.53	0.41
1:K:73:GLU:HB3	1:K:78:ILE:HG12	2.03	0.41
1:L:28:LEU:HD23	1:L:29:GLU:H	1.84	0.41
2:M:66:LEU:HA	2:M:66:LEU:HD12	1.82	0.41
2:M:69:LEU:O	2:M:70:GLU:HG3	2.21	0.41
2:M:138:SER:O	2:M:410:ILE:HG23	2.20	0.41
2:M:218:VAL:HG13	2:M:222:MET:HE2	2.03	0.41
2:M:370:ALA:C	2:M:372:LEU:N	2.75	0.41
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.86	0.41
2:M:398:THR:HA	2:M:633:GLN:CG	2.44	0.41
2:M:457:ALA:HB2	2:M:545:ASN:ND2	2.36	0.41
2:M:558:ALA:O	2:M:561:GLY:N	2.53	0.41
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.56	0.41
2:M:674:VAL:HG22	2:M:675:ALA:N	2.36	0.41
2:M:711:GLU:N	2:M:711:GLU:OE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:890:LEU:O	2:M:893:ALA:N	2.54	0.41
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.72	0.41
3:N:62:LYS:HE3	3:N:75:ARG:HD3	2.02	0.41
3:N:92:HIS:C	3:N:93:ILE:HG13	2.41	0.41
3:N:128:TYR:CZ	3:N:461:ILE:HG13	2.55	0.41
3:N:261:LEU:HD23	3:N:270:LEU:CA	2.51	0.41
3:N:378:ILE:HG12	3:N:379:ALA:N	2.35	0.41
3:N:464:LEU:N	3:N:464:LEU:HD23	2.36	0.41
3:N:497:GLU:O	3:N:498:VAL:C	2.59	0.41
3:N:583:ASP:OD1	3:N:604:THR:HB	2.21	0.41
3:N:606:ILE:O	3:N:607:LEU:C	2.59	0.41
3:N:690:ALA:O	3:N:694:VAL:HG23	2.21	0.41
3:N:794:GLN:OE1	3:N:794:GLN:HA	2.21	0.41
3:N:963:TYR:O	3:N:967:ALA:CB	2.69	0.41
3:N:1001:GLU:O	3:N:1002:LYS:C	2.58	0.41
3:N:1229:ILE:HA	3:N:1363:LEU:HD11	2.03	0.41
3:N:1311:LEU:HD12	3:N:1312:LEU:N	2.32	0.41
3:N:1333:HIS:C	3:N:1337:GLU:OE2	2.59	0.41
3:N:1379:VAL:HG22	3:N:1393:GLN:O	2.21	0.41
3:N:1380:GLU:N	3:N:1420:LEU:HD22	2.35	0.41
3:N:1400:VAL:O	3:N:1404:ASN:ND2	2.54	0.41
3:N:1476:THR:CB	4:O:21:VAL:HG23	2.44	0.41
4:O:46:PRO:HG2	4:O:63:TRP:CG	2.55	0.41
5:P:194:LEU:HD13	5:P:194:LEU:C	2.41	0.41
5:P:261:PRO:HB2	5:P:264:MET:HB2	2.03	0.41
5:P:267:THR:O	5:P:268:ILE:C	2.59	0.41
5:P:409:LYS:CG	5:P:410:TYR:H	2.33	0.41
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.72	0.41
1:A:179:PHE:CD1	1:A:179:PHE:C	2.94	0.41
1:B:48:ILE:HA	1:B:49:PRO:HD2	1.81	0.41
1:B:58:ILE:HG23	1:B:58:ILE:O	2.21	0.41
1:B:176:ARG:C	1:B:200:TRP:HD1	2.24	0.41
2:C:30:LEU:HA	2:C:44:ILE:HD12	2.03	0.41
2:C:151:ASP:H	2:C:158:TYR:HB3	1.86	0.41
2:C:227:PHE:O	2:C:233:GLU:OE1	2.38	0.41
2:C:435:TYR:HD1	3:D:1071:PHE:CD2	2.39	0.41
2:C:503:LEU:CD1	2:C:508:ILE:HA	2.37	0.41
2:C:517:ARG:O	2:C:518:LYS:C	2.59	0.41
2:C:673:LEU:HB3	2:C:867:VAL:HA	2.02	0.41
2:C:683:ASN:HD22	2:C:683:ASN:C	2.24	0.41
2:C:790:LEU:HD12	2:C:791:ARG:H	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:807:ARG:CZ	2:C:807:ARG:CB	2.99	0.41
2:C:839:LEU:HA	2:C:995:MET:O	2.21	0.41
2:C:958:THR:O	2:C:962:GLN:HG3	2.20	0.41
2:C:1072:LYS:H	2:C:1072:LYS:HG2	1.65	0.41
2:C:1088:LEU:O	2:C:1089:VAL:C	2.58	0.41
3:D:126:VAL:HG12	3:D:127:LEU:N	2.36	0.41
3:D:245:LEU:HG	3:D:309:GLY:CA	2.50	0.41
3:D:273:ARG:O	3:D:274:ARG:C	2.59	0.41
3:D:297:ILE:CG2	3:D:298:VAL:N	2.83	0.41
3:D:528:VAL:CG1	3:D:529:GLN:N	2.84	0.41
3:D:539:ASP:CB	3:D:600:LEU:HB3	2.50	0.41
3:D:612:GLY:O	3:D:615:ARG:HG2	2.21	0.41
3:D:662:GLU:C	3:D:664:LYS:H	2.23	0.41
3:D:740:PHE:CD1	3:D:740:PHE:N	2.89	0.41
3:D:896:ALA:O	3:D:900:ILE:HG13	2.20	0.41
3:D:950:GLY:C	3:D:952:ASP:N	2.74	0.41
3:D:1117:TYR:CA	3:D:1193:THR:HG21	2.51	0.41
3:D:1147:ARG:HB2	3:D:1166:LEU:CD1	2.48	0.41
3:D:1190:SER:OG	3:D:1191:PRO:HD2	2.20	0.41
3:D:1345:GLU:OE2	3:D:1376:MET:HG3	2.20	0.41
3:D:1405:GLU:CG	3:D:1406:ARG:N	2.83	0.41
5:F:102:LEU:HD21	5:F:187:LEU:H	1.85	0.41
5:F:208:SER:O	5:F:209:PHE:C	2.59	0.41
5:F:291:ILE:O	5:F:294:ALA:N	2.54	0.41
5:F:408:LEU:O	5:F:411:HIS:HB3	2.20	0.41
1:L:58:ILE:CG1	1:L:140:MET:HB3	2.45	0.41
2:M:640:ARG:HD2	2:M:642:ARG:NH2	2.36	0.41
2:M:944:LEU:O	2:M:947:ALA:HB3	2.21	0.41
3:N:73:CYS:HB3	3:N:76:CYS:SG	2.61	0.41
3:N:102:ILE:C	3:N:104:PHE:N	2.75	0.41
3:N:124:GLU:O	3:N:128:TYR:HD2	2.04	0.41
3:N:298:VAL:CB	3:N:300:LYS:HE3	2.49	0.41
3:N:325:GLU:CD	3:N:332:TYR:HB3	2.41	0.41
3:N:493:ARG:O	3:N:496:LEU:HB3	2.20	0.41
3:N:640:HIS:ND1	3:N:641:GLN:HG3	2.36	0.41
3:N:879:ARG:O	3:N:882:PHE:HB3	2.20	0.41
3:N:1103:HIS:N	3:N:1104:GLU:OE1	2.54	0.41
4:O:29:GLN:HE21	4:O:29:GLN:HB3	1.69	0.41
5:P:146:GLY:HA3	5:P:149:GLU:CD	2.42	0.41
5:P:156:VAL:HG22	5:P:156:VAL:H	1.67	0.41
5:P:202:TYR:CD1	5:P:202:TYR:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:280:GLN:CG	5:P:281:GLU:N	2.80	0.41
5:P:356:LYS:HB3	5:P:417:LYS:HZ3	1.85	0.41
5:P:381:HIS:O	5:P:384:GLU:HG3	2.20	0.41
1:A:5:LYS:HZ2	1:A:29:GLU:N	2.18	0.40
1:A:31:GLY:N	1:A:193:ASP:OD2	2.54	0.40
1:A:40:LEU:HA	1:A:43:ILE:HD12	2.03	0.40
1:A:179:PHE:HB3	1:A:197:LEU:HD21	2.03	0.40
2:C:96:ALA:O	2:C:113:VAL:HG22	2.21	0.40
2:C:165:LEU:HD23	2:C:165:LEU:HA	1.78	0.40
2:C:455:LEU:HD11	2:C:459:ALA:HB3	2.03	0.40
2:C:631:SER:CB	2:C:635:THR:OG1	2.69	0.40
2:C:666:LEU:CD1	2:C:668:LEU:HG	2.42	0.40
2:C:685:GLU:HG3	3:D:739:ASP:HB3	2.03	0.40
2:C:707:ARG:HG2	2:C:708:TYR:N	2.35	0.40
2:C:726:ILE:CD1	2:C:728:HIS:HB2	2.51	0.40
2:C:915:LYS:O	2:C:968:LEU:HD22	2.20	0.40
2:C:961:GLU:O	2:C:962:GLN:C	2.58	0.40
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.85	0.40
2:C:1093:GLN:O	2:C:1096:ALA:N	2.52	0.40
3:D:123:LEU:O	3:D:124:GLU:C	2.59	0.40
3:D:152:LEU:CD1	3:D:153:LEU:H	2.33	0.40
3:D:159:ARG:C	3:D:161:LEU:N	2.74	0.40
3:D:268:ALA:CB	3:D:290:PRO:HG3	2.51	0.40
3:D:608:SER:HB2	3:D:614:PHE:CE1	2.56	0.40
3:D:661:MET:O	3:D:664:LYS:O	2.40	0.40
3:D:826:PRO:HB3	3:D:828:LYS:HZ1	1.86	0.40
3:D:851:LEU:H	3:D:851:LEU:CD2	2.32	0.40
3:D:875:THR:HG22	3:D:876:SER:N	2.25	0.40
3:D:882:PHE:O	3:D:885:ILE:HB	2.21	0.40
3:D:1023:MET:O	3:D:1024:ALA:C	2.59	0.40
3:D:1107:VAL:HG12	3:D:1217:ILE:HG23	2.03	0.40
3:D:1190:SER:OG	3:D:1191:PRO:CD	2.69	0.40
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	2.02	0.40
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.51	0.40
3:D:1415:VAL:O	3:D:1415:VAL:HG23	2.21	0.40
3:D:1438:ALA:HA	3:D:1446:VAL:HG21	2.03	0.40
3:D:1439:SER:OG	3:D:1463:LYS:NZ	2.53	0.40
5:F:172:ARG:O	5:F:176:ILE:HG13	2.21	0.40
5:F:193:ARG:O	5:F:194:LEU:C	2.59	0.40
1:K:42:ARG:O	1:K:43:ILE:C	2.59	0.40
1:K:183:ASP:CG	2:M:938:LYS:HE3	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:CB	1:K:209:GLU:HG3	2.36	0.40
1:L:99:LEU:HD23	1:L:99:LEU:HA	1.90	0.40
2:M:73:LEU:HB3	2:M:93:PRO:O	2.21	0.40
2:M:567:GLN:CB	2:M:997:LEU:HD22	2.51	0.40
2:M:631:SER:O	2:M:632:ASN:C	2.60	0.40
2:M:807:ARG:HA	2:M:821:GLU:CB	2.50	0.40
2:M:869:VAL:HG22	2:M:870:ILE:N	2.35	0.40
2:M:874:LEU:C	2:M:876:VAL:H	2.25	0.40
3:N:32:ILE:HD12	3:N:527:MET:HG2	2.03	0.40
3:N:106:LYS:HB3	3:N:106:LYS:NZ	2.36	0.40
3:N:149:LYS:CE	3:N:151:GLN:HG3	2.47	0.40
3:N:186:VAL:CG1	3:N:187:LYS:N	2.83	0.40
3:N:391:ALA:HB2	5:P:97:GLU:OE2	2.20	0.40
3:N:496:LEU:O	3:N:497:GLU:C	2.59	0.40
3:N:574:LEU:O	3:N:578:VAL:HG23	2.21	0.40
3:N:661:MET:HA	3:N:666:ILE:HD11	2.02	0.40
3:N:686:GLU:O	3:N:687:VAL:C	2.59	0.40
3:N:832:ARG:O	3:N:832:ARG:HG3	2.20	0.40
3:N:860:LEU:HA	3:N:877:PRO:CB	2.46	0.40
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.48	0.40
3:N:996:TRP:HA	3:N:999:THR:OG1	2.19	0.40
3:N:1445:HIS:O	3:N:1448:THR:HB	2.20	0.40
5:P:154:LYS:O	5:P:155:THR:C	2.59	0.40
5:P:215:GLU:O	5:P:218:GLN:HG3	2.20	0.40
5:P:343:ASP:O	5:P:344:ALA:C	2.60	0.40
1:A:209:GLU:CA	1:A:212:ASN:HD22	2.34	0.40
1:B:48:ILE:HG22	1:B:173:PRO:CD	2.51	0.40
1:B:106:PRO:CA	1:B:133:GLU:HA	2.40	0.40
1:B:221:HIS:C	1:B:223:THR:H	2.24	0.40
2:C:41:ASN:O	2:C:46:ALA:CB	2.69	0.40
2:C:267:TYR:HB2	2:C:272:ALA:N	2.36	0.40
2:C:328:LEU:HD12	2:C:437:ARG:HD2	2.03	0.40
2:C:514:VAL:HG23	2:C:514:VAL:O	2.20	0.40
2:C:640:ARG:O	2:C:657:ASP:N	2.50	0.40
2:C:668:LEU:HD23	2:C:668:LEU:HA	1.93	0.40
2:C:728:HIS:CD2	2:C:730:SER:O	2.74	0.40
2:C:806:LEU:HB2	2:C:822:VAL:HG22	2.03	0.40
2:C:813:VAL:HG11	2:C:815:LEU:HG	2.01	0.40
2:C:944:LEU:O	2:C:945:ARG:C	2.60	0.40
2:C:998:TYR:HE2	2:C:1000:MET:HA	1.86	0.40
2:C:1064:ASN:ND2	2:C:1064:ASN:H	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1066:ALA:O	2:C:1067:TYR:C	2.60	0.40
3:D:73:CYS:O	3:D:77:GLY:HA2	2.21	0.40
3:D:142:LEU:HD12	3:D:142:LEU:C	2.41	0.40
3:D:244:GLU:OE2	3:D:310:LEU:CD2	2.69	0.40
3:D:341:GLU:HA	3:D:342:PRO:HD2	1.87	0.40
3:D:387:LEU:H	3:D:387:LEU:CD1	2.16	0.40
3:D:481:MET:O	3:D:489:ARG:CD	2.69	0.40
3:D:504:ASP:O	3:D:506:GLY:N	2.54	0.40
3:D:731:LEU:O	3:D:734:GLU:HG2	2.22	0.40
3:D:936:TYR:CE2	3:D:940:THR:HG21	2.57	0.40
3:D:1041:LEU:HG	3:D:1043:GLY:CA	2.51	0.40
3:D:1199:GLY:O	3:D:1373:ARG:NH1	2.54	0.40
5:F:247:ILE:O	5:F:248:ASN:C	2.58	0.40
2:M:157:ARG:HG3	2:M:158:TYR:N	2.37	0.40
2:M:233:GLU:HB2	2:M:237:ARG:NH2	2.37	0.40
2:M:461:VAL:HA	2:M:466:PHE:O	2.20	0.40
2:M:469:THR:HA	2:M:470:PRO:HD3	1.96	0.40
2:M:504:GLU:HG3	2:M:507:ARG:HD3	2.02	0.40
2:M:603:VAL:HG21	2:M:644:VAL:O	2.21	0.40
2:M:738:ASP:OD1	2:M:738:ASP:N	2.54	0.40
2:M:879:ARG:HG2	2:M:879:ARG:HH11	1.86	0.40
2:M:921:ALA:O	2:M:922:PHE:C	2.60	0.40
2:M:937:ASP:O	2:M:940:GLU:N	2.54	0.40
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.74	0.40
2:M:1102:LEU:O	3:N:5:VAL:CA	2.67	0.40
3:N:110:SER:O	3:N:111:LYS:C	2.58	0.40
3:N:112:ILE:HG23	3:N:512:MET:CE	2.51	0.40
3:N:141:ILE:HB	3:N:450:TYR:HB3	2.04	0.40
3:N:223:LEU:O	3:N:332:TYR:CD1	2.74	0.40
3:N:246:PRO:HD2	3:N:307:ALA:O	2.21	0.40
3:N:792:ILE:HD13	3:N:941:PHE:HE1	1.84	0.40
3:N:854:ALA:C	3:N:856:GLY:N	2.74	0.40
3:N:934:LEU:O	3:N:935:LYS:C	2.60	0.40
3:N:950:GLY:O	3:N:953:ASP:HB2	2.22	0.40
3:N:972:LEU:O	3:N:973:GLN:C	2.60	0.40
3:N:1068:LEU:HA	3:N:1068:LEU:HD12	1.78	0.40
3:N:1123:PHE:CA	3:N:1133:ARG:O	2.69	0.40
3:N:1165:TYR:CZ	3:N:1214:PRO:HB3	2.56	0.40
3:N:1436:SER:O	3:N:1437:ALA:C	2.59	0.40
5:P:235:PHE:O	5:P:238:TYR:N	2.54	0.40
1:A:70:GLY:H	2:C:607:ASP:CG	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:ARG:O	1:A:176:ARG:HB2	2.20	0.40
2:C:90:TYR:O	2:C:119:PRO:HA	2.21	0.40
2:C:172:ILE:H	2:C:172:ILE:HG13	1.70	0.40
2:C:328:LEU:HD12	2:C:433:THR:C	2.42	0.40
2:C:906:PHE:HZ	3:D:1070:TYR:CD2	2.39	0.40
2:C:974:LEU:O	2:C:983:ILE:HG13	2.20	0.40
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.52	0.40
2:C:1004:LYS:HG2	2:C:1005:MET:N	2.36	0.40
2:C:1019:GLN:O	2:C:1020:PRO:C	2.60	0.40
3:D:87:ARG:O	3:D:524:LEU:HD11	2.22	0.40
3:D:138:LYS:CB	3:D:450:TYR:OH	2.66	0.40
3:D:226:PRO:HB2	3:D:231:VAL:CG2	2.50	0.40
3:D:508:ARG:HB2	3:D:511:TRP:NE1	2.36	0.40
3:D:508:ARG:HA	3:D:509:PRO:HD2	1.80	0.40
3:D:564:GLU:HA	3:D:567:ILE:CG1	2.51	0.40
3:D:654:LYS:HD3	3:D:655:PRO:HD3	2.03	0.40
3:D:681:ARG:HG3	3:D:682:ASP:OD1	2.21	0.40
3:D:934:LEU:O	3:D:935:LYS:C	2.59	0.40
3:D:1149:LEU:HB3	3:D:1163:GLY:H	1.86	0.40
3:D:1179:GLU:C	3:D:1181:GLY:N	2.75	0.40
3:D:1339:LYS:CB	3:D:1343:ALA:CB	2.99	0.40
3:D:1403:LEU:HB3	3:D:1408:ILE:CD1	2.51	0.40
3:D:1440:PHE:CD2	3:D:1440:PHE:N	2.86	0.40
3:D:1447:LEU:O	3:D:1449:GLU:N	2.54	0.40
5:F:181:GLU:OE2	5:F:184:ARG:HD3	2.21	0.40
5:F:189:GLU:O	5:F:191:ASN:N	2.55	0.40
5:F:260:ILE:CG1	5:F:261:PRO:HD2	2.51	0.40
5:F:381:HIS:HB3	5:F:384:GLU:CG	2.51	0.40
1:K:111:ALA:C	1:K:113:ASP:H	2.23	0.40
1:L:137:ARG:HH22	1:L:139:ASN:HD22	1.69	0.40
1:L:208:LEU:HD11	1:L:212:ASN:HD21	1.85	0.40
2:M:212:GLY:O	2:M:215:GLY:C	2.59	0.40
2:M:397:GLU:CD	2:M:632:ASN:H	2.23	0.40
2:M:446:GLY:O	2:M:449:ILE:HG22	2.22	0.40
2:M:728:HIS:HD2	2:M:734:LEU:HD21	1.87	0.40
2:M:890:LEU:O	2:M:891:GLY:C	2.59	0.40
2:M:909:ALA:C	2:M:910:LYS:HD2	2.41	0.40
3:N:34:TYR:CG	3:N:35:ARG:N	2.89	0.40
3:N:116:LEU:HB2	3:N:118:LEU:HG	2.03	0.40
3:N:119:SER:CB	3:N:123:LEU:H	2.25	0.40
3:N:149:LYS:CG	3:N:150:ARG:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:259:VAL:HG11	3:N:293:VAL:HG12	2.02	0.40
3:N:416:ALA:CB	3:N:432:TYR:CA	2.84	0.40
3:N:645:PRO:O	3:N:646:LYS:C	2.60	0.40
3:N:784:ASP:OD1	3:N:784:ASP:N	2.50	0.40
3:N:806:PHE:CE2	3:N:809:PRO:C	2.95	0.40
3:N:933:ALA:O	3:N:936:TYR:HB3	2.20	0.40
3:N:1283:ILE:HD12	3:N:1315:ASP:OD2	2.22	0.40
3:N:1292:VAL:CG1	3:N:1293:PHE:N	2.82	0.40
3:N:1462:LEU:HB3	3:N:1472:ILE:CD1	2.52	0.40
5:P:215:GLU:O	5:P:218:GLN:CG	2.68	0.40
5:P:320:PRO:HA	5:P:327:SER:O	2.20	0.40
5:P:321:ILE:HG22	5:P:322:GLY:N	2.37	0.40
5:P:329:TYR:O	5:P:330:GLY:C	2.60	0.40
5:P:405:LEU:O	5:P:408:LEU:HB3	2.21	0.40
1:B:112:ARG:CG	1:B:113:ASP:H	2.35	0.40
1:B:211:LEU:C	1:B:211:LEU:HD12	2.42	0.40
2:C:110:GLU:CG	2:C:369:PRO:HB3	2.50	0.40
2:C:173:ASP:O	2:C:174:LEU:HD23	2.21	0.40
2:C:300:ASP:OD2	2:C:303:PHE:CD1	2.74	0.40
2:C:571:LEU:HD12	2:C:670:GLN:HG3	2.04	0.40
2:C:598:GLU:H	2:C:598:GLU:HG2	1.66	0.40
2:C:630:ARG:HH11	2:C:630:ARG:HG2	1.86	0.40
2:C:694:LEU:HD23	2:C:697:ARG:NH2	2.36	0.40
2:C:723:THR:OG1	2:C:725:ASP:HB3	2.21	0.40
2:C:726:ILE:C	2:C:728:HIS:N	2.73	0.40
2:C:806:LEU:O	2:C:821:GLU:HB2	2.21	0.40
2:C:841:ASN:C	2:C:843:HIS:H	2.23	0.40
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.36	0.40
2:C:965:GLU:O	2:C:969:GLN:HG3	2.22	0.40
3:D:139:GLY:HA3	3:D:147:VAL:HG23	2.02	0.40
3:D:209:ARG:HB2	3:D:389:GLU:CB	2.51	0.40
3:D:283:PHE:CE2	3:D:313:MET:SD	3.14	0.40
3:D:517:VAL:HA	3:D:518:PRO:HD3	1.83	0.40
3:D:627:GLY:O	3:D:747:VAL:HG12	2.21	0.40
3:D:1008:PHE:CD1	3:D:1008:PHE:N	2.89	0.40
3:D:1032:PRO:O	3:D:1033:GLN:C	2.60	0.40
3:D:1047:LYS:HD2	3:D:1051:GLU:HG3	2.03	0.40
3:D:1262:LEU:HD13	3:D:1352:ILE:HG13	2.04	0.40
3:D:1280:VAL:CG1	3:D:1316:GLY:HA2	2.52	0.40
3:D:1453:ALA:O	3:D:1454:GLY:C	2.59	0.40
2:M:18:LEU:HD12	2:M:590:ASP:CB	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:19:THR:O	2:M:23:VAL:HG22	2.20	0.40
2:M:953:VAL:HG11	2:M:962:GLN:HB3	2.03	0.40
2:M:1064:ASN:O	2:M:1065:ALA:C	2.59	0.40
3:N:32:ILE:HG23	3:N:38:LYS:N	2.36	0.40
3:N:66:GLN:O	3:N:66:GLN:HG2	2.21	0.40
3:N:133:ILE:HG22	3:N:455:ARG:CA	2.51	0.40
3:N:247:GLU:HA	3:N:248:PRO:HA	1.80	0.40
3:N:409:VAL:HG12	3:N:410:SER:H	1.85	0.40
3:N:416:ALA:HB1	3:N:432:TYR:CD1	2.56	0.40
3:N:543:LEU:HA	3:N:546:ARG:HD3	2.03	0.40
3:N:564:GLU:O	3:N:565:ILE:C	2.59	0.40
3:N:657:LEU:HG	3:N:661:MET:HE3	2.04	0.40
3:N:662:GLU:N	3:N:667:ALA:HB3	2.36	0.40
3:N:827:ILE:HA	3:N:836:VAL:CB	2.34	0.40
3:N:956:ILE:HA	3:N:957:PRO:HD3	1.90	0.40
3:N:989:TYR:CD1	3:N:993:LEU:HD21	2.57	0.40
3:N:1067:VAL:HG13	3:N:1068:LEU:N	2.33	0.40
3:N:1351:GLU:OE2	3:N:1354:LYS:HD2	2.20	0.40
5:P:328:PHE:O	5:P:332:PHE:CE1	2.74	0.40
5:P:402:ASN:N	5:P:402:ASN:ND2	2.70	0.40
1:A:133:GLU:CG	1:A:134:GLU:N	2.85	0.40
1:A:155:LYS:HB3	1:A:156:HIS:H	1.73	0.40
1:A:220:GLU:O	1:A:224:TYR:CE2	2.73	0.40
1:B:184:THR:HG23	1:B:192:LEU:HB2	2.04	0.40
2:C:185:LYS:HE2	2:C:190:LYS:HD3	2.03	0.40
2:C:217:LEU:C	2:C:219:GLN:H	2.24	0.40
2:C:343:GLN:CG	2:C:385:PHE:HB2	2.50	0.40
2:C:359:MET:O	2:C:359:MET:HG2	2.22	0.40
2:C:385:PHE:O	2:C:389:SER:N	2.54	0.40
2:C:612:VAL:HG13	2:C:622:GLU:CA	2.51	0.40
2:C:860:HIS:HA	2:C:866:PRO:HA	2.03	0.40
2:C:910:LYS:O	2:C:911:GLU:C	2.60	0.40
2:C:1018:GLN:HG2	3:D:87:ARG:NH2	2.37	0.40
3:D:15:PRO:O	3:D:18:ILE:HB	2.20	0.40
3:D:95:LEU:HB2	3:D:515:GLU:CA	2.41	0.40
3:D:95:LEU:HD21	3:D:517:VAL:CG2	2.52	0.40
3:D:148:GLU:O	3:D:150:ARG:N	2.55	0.40
3:D:148:GLU:C	3:D:150:ARG:N	2.74	0.40
3:D:245:LEU:CA	3:D:309:GLY:H	2.32	0.40
3:D:462:GLN:O	3:D:463:GLN:C	2.59	0.40
3:D:520:LEU:HD11	3:D:524:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:670:VAL:O	3:D:671:LYS:C	2.60	0.40
3:D:686:GLU:O	3:D:687:VAL:C	2.59	0.40
3:D:764:LEU:HD23	3:D:767:HIS:CD2	2.56	0.40
3:D:806:PHE:CE2	3:D:812:ALA:HB2	2.57	0.40
3:D:932:ASP:O	3:D:933:ALA:C	2.60	0.40
3:D:1025:GLN:C	3:D:1027:GLY:H	2.24	0.40
3:D:1042:ARG:HH11	3:D:1042:ARG:CG	2.31	0.40
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.90	0.40
3:D:1066:THR:HB	3:D:1069:GLU:CG	2.51	0.40
3:D:1092:GLY:O	3:D:1095:THR:N	2.55	0.40
3:D:1103:HIS:HD2	3:D:1462:LEU:CB	2.35	0.40
4:E:29:GLN:C	4:E:31:LEU:N	2.75	0.40
5:F:102:LEU:HD12	5:F:183:ALA:HB1	2.04	0.40
5:F:102:LEU:HD11	5:F:183:ALA:HA	2.04	0.40
5:F:125:ASP:CG	5:F:126:LEU:H	2.25	0.40
5:F:148:LYS:O	5:F:149:GLU:C	2.60	0.40
5:F:289:GLU:O	5:F:290:GLU:C	2.59	0.40
5:F:314:PRO:CG	5:F:315:VAL:N	2.79	0.40
5:F:381:HIS:HB3	5:F:384:GLU:CD	2.42	0.40
1:K:22:GLU:C	1:K:23:PHE:CD1	2.95	0.40
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.36	0.40
2:M:86:LYS:O	2:M:87:ASP:C	2.60	0.40
2:M:129:ILE:HD13	2:M:129:ILE:N	2.37	0.40
2:M:280:LYS:O	2:M:281:LEU:HD23	2.20	0.40
2:M:512:ARG:HH11	2:M:524:VAL:HA	1.86	0.40
2:M:649:VAL:CG1	2:M:650:ARG:HH21	2.33	0.40
2:M:809:GLY:O	2:M:813:VAL:HB	2.21	0.40
2:M:941:VAL:O	2:M:944:LEU:HB2	2.22	0.40
2:M:958:THR:O	2:M:962:GLN:HG3	2.21	0.40
2:M:1048:THR:HA	3:N:755:ALA:CB	2.51	0.40
3:N:5:VAL:CG1	3:N:6:ARG:N	2.84	0.40
3:N:60:CYS:SG	3:N:62:LYS:HE2	2.61	0.40
3:N:73:CYS:C	3:N:75:ARG:N	2.75	0.40
3:N:134:VAL:HG12	3:N:136:ASP:OD1	2.22	0.40
3:N:206:ARG:NE	3:N:392:SER:CB	2.82	0.40
3:N:221:ALA:O	3:N:334:THR:HA	2.20	0.40
3:N:358:GLY:HA2	3:N:385:VAL:O	2.22	0.40
3:N:541:ASN:O	3:N:544:TYR:HB2	2.22	0.40
3:N:680:GLN:O	3:N:683:ILE:HB	2.22	0.40
3:N:871:LYS:NZ	3:N:897:TRP:CH2	2.89	0.40
3:N:984:THR:O	3:N:987:GLU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:102:LEU:HD21	5:P:187:LEU:HB2	2.03	0.40
5:P:239:ALA:O	5:P:241:TRP:N	2.54	0.40
5:P:315:VAL:HG12	5:P:316:SER:N	2.36	0.40
5:P:353:GLU:HA	5:P:356:LYS:CB	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	229/315 (73%)	160 (70%)	54 (24%)	15 (7%)	1 6
1	B	241/315 (76%)	159 (66%)	64 (27%)	18 (8%)	1 5
1	K	229/315 (73%)	168 (73%)	50 (22%)	11 (5%)	2 13
1	L	241/315 (76%)	171 (71%)	55 (23%)	15 (6%)	1 8
2	C	1117/1119 (100%)	774 (69%)	251 (22%)	92 (8%)	1 4
2	M	1117/1119 (100%)	767 (69%)	246 (22%)	104 (9%)	0 3
3	D	1502/1524 (99%)	931 (62%)	422 (28%)	149 (10%)	0 2
3	N	1502/1524 (99%)	907 (60%)	445 (30%)	150 (10%)	0 2
4	E	93/99 (94%)	54 (58%)	25 (27%)	14 (15%)	0 1
4	O	93/99 (94%)	56 (60%)	27 (29%)	10 (11%)	0 2
5	F	347/423 (82%)	167 (48%)	130 (38%)	50 (14%)	0 1
5	P	347/423 (82%)	171 (49%)	117 (34%)	59 (17%)	0 0
All	All	7058/7590 (93%)	4485 (64%)	1886 (27%)	687 (10%)	0 2

All (687) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	59	GLU
1	A	112	ARG
1	A	155	LYS
1	B	75	VAL
1	B	118	ALA
2	C	33	ASP
2	C	42	VAL
2	C	113	VAL
2	C	272	ALA
2	C	276	LYS
2	C	294	GLU
2	C	368	THR
2	C	385	PHE
2	C	399	ASN
2	C	909	ALA
2	C	984	GLU
2	C	1060	ILE
3	D	111	LYS
3	D	137	PRO
3	D	248	PRO
3	D	292	VAL
3	D	485	SER
3	D	487	ALA
3	D	545	ARG
3	D	607	LEU
3	D	751	LEU
3	D	836	VAL
3	D	908	LYS
3	D	945	SER
3	D	1074	SER
3	D	1342	GLU
3	D	1366	LYS
3	D	1405	GLU
3	D	1426	LYS
3	D	1427	SER
3	D	1446	VAL
4	E	22	VAL
4	E	38	THR
4	E	87	LYS
5	F	75	ILE
5	F	100	VAL
5	F	116	LEU
5	F	188	ILE

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Mol	Chain	Res	Type
5	F	314	PRO
5	F	363	GLU
5	F	402	ASN
1	K	73	GLU
1	L	59	GLU
1	L	240	LYS
2	M	21	ILE
2	M	33	ASP
2	M	42	VAL
2	M	178	PRO
2	M	183	SER
2	M	194	VAL
2	M	255	ALA
2	M	276	LYS
2	M	542	VAL
2	M	562	SER
2	M	604	ALA
2	M	684	PHE
2	M	730	SER
2	M	782	ALA
2	M	855	VAL
2	M	909	ALA
2	M	1046	ALA
2	M	1060	ILE
3	N	46	ASP
3	N	137	PRO
3	N	149	LYS
3	N	227	LEU
3	N	245	LEU
3	N	248	PRO
3	N	292	VAL
3	N	481	MET
3	N	487	ALA
3	N	492	ALA
3	N	607	LEU
3	N	639	LEU
3	N	650	LEU
3	N	734	GLU
3	N	766	ALA
3	N	808	THR
3	N	836	VAL
3	N	908	LYS

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Mol	Chain	Res	Type
3	N	936	TYR
3	N	962	GLN
3	N	989	TYR
3	N	1007	VAL
3	N	1094	LEU
3	N	1125	PRO
3	N	1405	GLU
3	N	1446	VAL
3	N	1467	ILE
4	O	16	LYS
5	P	75	ILE
5	P	78	SER
5	P	93	LEU
5	P	100	VAL
5	P	159	ILE
5	P	236	SER
5	P	331	ASP
5	P	356	LYS
5	P	363	GLU
5	P	368	VAL
5	P	376	ILE
5	P	400	ILE
5	P	402	ASN
1	A	32	PHE
1	A	35	THR
1	A	47	SER
1	A	217	ILE
1	B	113	ASP
2	C	21	ILE
2	C	80	GLN
2	C	179	ASN
2	C	212	GLY
2	C	241	LEU
2	C	251	ASP
2	C	271	GLU
2	C	284	ARG
2	C	297	GLU
2	C	336	VAL
2	C	369	PRO
2	C	381	ALA
2	C	386	PHE
2	C	447	ALA

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Mol	Chain	Res	Type
2	C	500	ASN
2	C	715	THR
2	C	809	GLY
2	C	855	VAL
2	C	856	GLU
2	C	883	GLY
2	C	927	GLY
2	C	929	ARG
2	C	1004	LYS
2	C	1115	LEU
3	D	46	ASP
3	D	65	ARG
3	D	103	TRP
3	D	120	ALA
3	D	124	GLU
3	D	126	VAL
3	D	227	LEU
3	D	246	PRO
3	D	457	GLY
3	D	564	GLU
3	D	565	ILE
3	D	666	ILE
3	D	676	MET
3	D	686	GLU
3	D	737	ASN
3	D	752	SER
3	D	759	ALA
3	D	808	THR
3	D	809	PRO
3	D	811	GLU
3	D	813	LEU
3	D	885	ILE
3	D	894	LYS
3	D	923	GLY
3	D	962	GLN
3	D	966	GLU
3	D	1007	VAL
3	D	1071	PHE
3	D	1072	ILE
3	D	1263	PHE
3	D	1316	GLY
3	D	1338	ALA

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Mol	Chain	Res	Type
3	D	1341	PRO
3	D	1347	TYR
3	D	1354	LYS
3	D	1367	HIS
3	D	1384	PRO
3	D	1467	ILE
3	D	1482	ARG
4	E	21	VAL
4	E	71	GLY
4	E	85	LEU
5	F	77	THR
5	F	78	SER
5	F	81	VAL
5	F	93	LEU
5	F	119	ILE
5	F	127	ILE
5	F	131	VAL
5	F	132	ARG
5	F	195	VAL
5	F	205	ARG
5	F	236	SER
5	F	238	TYR
5	F	266	GLU
5	F	288	TYR
5	F	304	VAL
5	F	351	SER
5	F	404	ALA
1	K	5	LYS
1	K	59	GLU
1	L	37	GLY
1	L	118	ALA
2	M	20	GLU
2	M	38	LYS
2	M	49	ARG
2	M	80	GLN
2	M	81	ASP
2	M	111	ASP
2	M	113	VAL
2	M	152	PRO
2	M	218	VAL
2	M	314	THR
2	M	322	VAL

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Mol	Chain	Res	Type
2	M	381	ALA
2	M	423	ALA
2	M	425	PHE
2	M	463	GLU
2	M	583	LEU
2	M	584	GLU
2	M	616	GLU
2	M	658	GLY
2	M	692	GLU
2	M	728	HIS
2	M	735	ARG
2	M	809	GLY
2	M	923	GLU
2	M	927	GLY
2	M	943	VAL
2	M	1050	GLN
3	N	69	GLU
3	N	111	LYS
3	N	122	GLU
3	N	124	GLU
3	N	126	VAL
3	N	146	PRO
3	N	162	ARG
3	N	358	GLY
3	N	407	VAL
3	N	442	ASN
3	N	485	SER
3	N	526	PRO
3	N	532	GLY
3	N	545	ARG
3	N	565	ILE
3	N	654	LYS
3	N	666	ILE
3	N	686	GLU
3	N	731	LEU
3	N	761	ILE
3	N	787	LEU
3	N	846	PRO
3	N	939	PHE
3	N	940	THR
3	N	945	SER
3	N	988	ARG

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Mol	Chain	Res	Type
3	N	1072	ILE
3	N	1082	ALA
3	N	1171	VAL
3	N	1234	THR
3	N	1341	PRO
3	N	1348	LEU
3	N	1349	VAL
3	N	1355	VAL
3	N	1366	LYS
3	N	1377	LYS
3	N	1397	LYS
3	N	1399	ASP
3	N	1424	VAL
3	N	1435	LEU
3	N	1482	ARG
3	N	1503	VAL
3	N	1504	GLU
4	O	30	LEU
4	O	71	GLY
4	O	72	ARG
4	O	82	GLU
4	O	85	LEU
4	O	87	LYS
5	P	85	LEU
5	P	155	THR
5	P	226	LYS
5	P	230	LYS
5	P	232	ARG
5	P	237	THR
5	P	238	TYR
5	P	241	TRP
5	P	247	ILE
5	P	266	GLU
5	P	271	LEU
5	P	277	GLN
5	P	288	TYR
5	P	297	PRO
5	P	307	THR
5	P	322	GLY
5	P	351	SER
5	P	352	GLU
5	P	354	LEU

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Mol	Chain	Res	Type
5	P	360	LYS
5	P	382	THR
1	A	97	VAL
1	A	105	GLY
1	B	59	GLU
1	B	119	ASP
1	B	208	LEU
2	C	7	GLY
2	C	20	GLU
2	C	49	ARG
2	C	152	PRO
2	C	183	SER
2	C	222	MET
2	C	291	ALA
2	C	306	THR
2	C	400	PRO
2	C	423	ALA
2	C	463	GLU
2	C	551	GLU
2	C	772	ARG
2	C	1050	GLN
3	D	128	TYR
3	D	200	ASP
3	D	235	ALA
3	D	237	LYS
3	D	310	LEU
3	D	405	ASP
3	D	467	GLU
3	D	474	GLU
3	D	492	ALA
3	D	504	ASP
3	D	505	SER
3	D	506	GLY
3	D	523	ASP
3	D	612	GLY
3	D	617	ASN
3	D	639	LEU
3	D	684	LYS
3	D	734	GLU
3	D	760	ARG
3	D	791	TYR
3	D	846	PRO

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Mol	Chain	Res	Type
3	D	902	LEU
3	D	989	TYR
3	D	1019	PRO
3	D	1125	PRO
3	D	1245	GLY
3	D	1315	ASP
3	D	1332	PRO
3	D	1397	LYS
3	D	1408	ILE
3	D	1447	LEU
3	D	1480	PHE
4	E	11	GLY
4	E	28	GLN
4	E	72	ARG
5	F	133	ALA
5	F	190	ALA
5	F	225	GLU
5	F	280	GLN
5	F	352	GLU
5	F	354	LEU
5	F	362	SER
5	F	382	THR
5	F	385	GLU
5	F	408	LEU
1	K	9	PRO
1	K	47	SER
1	L	241	GLU
1	L	242	PRO
2	M	19	THR
2	M	66	LEU
2	M	205	GLU
2	M	241	LEU
2	M	251	ASP
2	M	253	ALA
2	M	271	GLU
2	M	360	LEU
2	M	368	THR
2	M	380	ALA
2	M	386	PHE
2	M	400	PRO
2	M	447	ALA
2	M	551	GLU

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Mol	Chain	Res	Type
2	M	563	ASN
2	M	606	VAL
2	M	897	LEU
2	M	944	LEU
2	M	977	GLY
2	M	1061	GLU
3	N	127	LEU
3	N	173	PRO
3	N	237	LYS
3	N	411	THR
3	N	480	GLU
3	N	549	ASN
3	N	606	ILE
3	N	655	PRO
3	N	687	VAL
3	N	737	ASN
3	N	809	PRO
3	N	1032	PRO
3	N	1224	VAL
3	N	1297	GLU
3	N	1338	ALA
4	O	59	ASN
5	P	77	THR
5	P	169	GLU
5	P	190	ALA
5	P	225	GLU
5	P	353	GLU
1	B	44	LEU
1	B	171	PHE
1	B	217	ILE
1	B	236	PRO
2	C	74	GLY
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	537	LYS
2	C	584	GLU
2	C	604	ALA
2	C	684	PHE
2	C	730	SER
2	C	876	VAL
2	C	915	LYS

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Mol	Chain	Res	Type
2	C	955	PRO
2	C	1020	PRO
3	D	39	PRO
3	D	69	GLU
3	D	123	LEU
3	D	172	PRO
3	D	199	LEU
3	D	295	GLY
3	D	356	PRO
3	D	377	VAL
3	D	460	ALA
3	D	472	ALA
3	D	546	ARG
3	D	603	LEU
3	D	654	LYS
3	D	668	PRO
3	D	936	TYR
3	D	995	LEU
3	D	1023	MET
3	D	1079	LYS
3	D	1082	ALA
3	D	1093	TYR
3	D	1094	LEU
3	D	1448	THR
3	D	1484	THR
3	D	1497	GLU
4	E	20	THR
4	E	23	VAL
4	E	32	ARG
5	F	83	GLN
5	F	174	LEU
5	F	178	ARG
5	F	233	PHE
5	F	247	ILE
5	F	271	LEU
1	L	9	PRO
1	L	35	THR
1	L	102	LYS
1	L	211	LEU
1	L	217	ILE
2	M	12	VAL
2	M	170	PRO

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Mol	Chain	Res	Type
2	M	171	TRP
2	M	208	ALA
2	M	212	GLY
2	M	213	ALA
2	M	231	PRO
2	M	256	TYR
2	M	305	PRO
2	M	306	THR
2	M	505	GLY
2	M	526	PRO
2	M	608	GLY
2	M	626	ARG
2	M	849	VAL
2	M	876	VAL
2	M	957	LYS
3	N	62	LYS
3	N	125	GLN
3	N	250	LEU
3	N	451	ASP
3	N	474	GLU
3	N	498	VAL
3	N	509	PRO
3	N	603	LEU
3	N	665	GLY
3	N	670	VAL
3	N	676	MET
3	N	757	ALA
3	N	995	LEU
3	N	1083	ASP
3	N	1342	GLU
3	N	1385	GLY
3	N	1391	GLU
3	N	1469	GLY
4	O	41	GLU
4	O	58	PRO
5	P	239	ALA
5	P	306	GLU
5	P	346	THR
5	P	392	VAL
5	P	405	LEU
5	P	420	ASP
1	A	4	SER

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Mol	Chain	Res	Type
1	A	9	PRO
1	A	30	ARG
1	A	208	LEU
1	B	35	THR
1	B	240	LYS
2	C	153	ALA
2	C	180	GLY
2	C	250	ARG
2	C	794	PRO
2	C	1061	GLU
2	C	1067	TYR
3	D	31	THR
3	D	114	THR
3	D	125	GLN
3	D	127	LEU
3	D	136	ASP
3	D	150	ARG
3	D	459	GLU
3	D	498	VAL
3	D	526	PRO
3	D	578	VAL
3	D	587	ARG
3	D	597	ASP
3	D	655	PRO
3	D	678	GLU
3	D	693	GLU
3	D	920	LEU
3	D	990	ASP
3	D	1029	ARG
3	D	1441	GLN
3	D	1445	HIS
5	F	156	VAL
5	F	213	ILE
5	F	270	LYS
5	F	272	SER
5	F	368	VAL
1	K	30	ARG
1	K	42	ARG
2	M	23	VAL
2	M	188	LYS
2	M	244	PRO
2	M	272	ALA

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Mol	Chain	Res	Type
2	M	336	VAL
2	M	510	ALA
2	M	911	GLU
2	M	1063	ARG
3	N	70	GLY
3	N	123	LEU
3	N	180	LYS
3	N	286	VAL
3	N	493	ARG
3	N	494	LYS
3	N	515	GLU
3	N	789	LEU
3	N	896	ALA
3	N	1265	ALA
3	N	1271	LYS
3	N	1332	PRO
3	N	1426	LYS
3	N	1429	LEU
3	N	1444	THR
3	N	1468	LEU
5	P	94	LEU
5	P	133	ALA
5	P	153	PRO
1	B	38	ASN
1	B	112	ARG
1	B	209	GLU
2	C	19	THR
2	C	188	LYS
2	C	248	PRO
2	C	253	ALA
2	C	304	LEU
2	C	376	ARG
2	C	658	GLY
2	C	911	GLU
3	D	412	GLY
3	D	592	THR
3	D	1097	LYS
3	D	1129	THR
3	D	1340	GLY
5	F	241	TRP
5	F	322	GLY
1	L	6	LEU

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Mol	Chain	Res	Type
1	L	38	ASN
1	L	210	ALA
2	M	10	ARG
2	M	166	PRO
2	M	304	LEU
2	M	457	ALA
2	M	545	ASN
2	M	801	VAL
2	M	1062	GLY
2	M	1087	VAL
3	N	226	PRO
3	N	356	PRO
3	N	504	ASP
3	N	530	VAL
3	N	880	ILE
3	N	1040	GLY
3	N	1097	LYS
3	N	1233	GLY
3	N	1245	GLY
3	N	1414	PRO
3	N	1472	ILE
5	P	81	VAL
5	P	289	GLU
5	P	419	ARG
2	C	727	PRO
3	D	225	LEU
3	D	297	ILE
3	D	567	ILE
3	D	594	PRO
3	D	665	GLY
3	D	1003	VAL
3	D	1466	VAL
2	M	727	PRO
3	N	287	GLY
3	N	295	GLY
3	N	548	ILE
3	N	955	VAL
3	N	1003	VAL
3	N	1022	VAL
3	N	1183	ILE
3	N	1413	THR
1	A	37	GLY

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Mol	Chain	Res	Type
1	A	215	VAL
1	B	71	VAL
2	C	191	PHE
2	C	812	GLY
3	D	409	VAL
4	E	6	ILE
5	F	400	ILE
3	N	1248	GLY
5	P	146	GLY
5	P	196	VAL
5	P	251	ILE
1	B	13	VAL
2	C	165	LEU
2	C	218	VAL
2	C	542	VAL
2	C	801	VAL
2	C	844	GLY
2	C	924	VAL
2	C	931	GLY
1	K	37	GLY
1	K	43	ILE
2	M	74	GLY
2	M	794	PRO
3	N	39	PRO
3	N	85	VAL
3	N	612	GLY
3	N	788	GLY
3	N	1223	ILE
3	N	1466	VAL
5	P	188	ILE
5	P	261	PRO
5	P	313	GLU
1	B	170	VAL
2	C	505	GLY
2	C	521	PRO
2	C	526	PRO
2	C	606	VAL
3	D	786	ILE
3	D	1349	VAL
5	F	113	ILE
5	F	376	ILE
1	K	97	VAL

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Mol	Chain	Res	Type
1	L	157	GLY
2	M	645	VAL
2	M	659	PRO
3	N	188	GLY
3	N	1019	PRO
3	N	1277	ILE
5	P	304	VAL
2	C	302	VAL
4	E	5	GLY
1	K	75	VAL
2	M	376	ARG
3	N	885	ILE
3	N	1394	VAL
5	P	268	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	202/273 (74%)	192 (95%)	10 (5%)	24	60
1	B	210/273 (77%)	193 (92%)	17 (8%)	11	40
1	K	202/273 (74%)	190 (94%)	12 (6%)	19	54
1	L	210/273 (77%)	196 (93%)	14 (7%)	16	49
2	C	941/941 (100%)	863 (92%)	78 (8%)	11	39
2	M	941/941 (100%)	859 (91%)	82 (9%)	10	37
3	D	1264/1279 (99%)	1152 (91%)	112 (9%)	9	35
3	N	1264/1279 (99%)	1141 (90%)	123 (10%)	8	31
4	E	83/87 (95%)	76 (92%)	7 (8%)	11	38
4	O	83/87 (95%)	74 (89%)	9 (11%)	6	26
5	F	304/371 (82%)	274 (90%)	30 (10%)	8	30
5	P	304/371 (82%)	266 (88%)	38 (12%)	4	20
All	All	6008/6448 (93%)	5476 (91%)	532 (9%)	9	35

All (532) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	23	PHE
1	A	47	SER
1	A	83	LYS
1	A	86	VAL
1	A	94	LEU
1	A	107	LYS
1	A	123	MET
1	A	124	ASN
1	A	224	TYR
1	B	23	PHE
1	B	58	ILE
1	B	82	LEU
1	B	112	ARG
1	B	113	ASP
1	B	114	PHE
1	B	124	ASN
1	B	140	MET
1	B	143	ARG
1	B	175	ARG
1	B	180	GLN
1	B	183	ASP
1	B	188	GLN
1	B	211	LEU
1	B	212	ASN
1	B	224	TYR
1	B	243	GLU
2	C	1	MET
2	C	13	ILE
2	C	15	LEU
2	C	41	ASN
2	C	71	TYR
2	C	73	LEU
2	C	81	ASP
2	C	113	VAL
2	C	115	LEU
2	C	117	HIS
2	C	139	GLN
2	C	158	TYR
2	C	179	ASN
2	C	184	MET
2	C	195	LEU

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Mol	Chain	Res	Type
2	C	221	LEU
2	C	227	PHE
2	C	229	MET
2	C	230	ARG
2	C	233	GLU
2	C	239	PHE
2	C	251	ASP
2	C	263	ASP
2	C	267	TYR
2	C	268	ASP
2	C	285	LEU
2	C	303	PHE
2	C	321	GLU
2	C	361	MET
2	C	367	LEU
2	C	388	ARG
2	C	405	ARG
2	C	408	ARG
2	C	434	HIS
2	C	463	GLU
2	C	507	ARG
2	C	520	GLU
2	C	566	THR
2	C	579	VAL
2	C	584	GLU
2	C	590	ASP
2	C	600	ASP
2	C	607	ASP
2	C	610	ARG
2	C	616	GLU
2	C	622	GLU
2	C	628	PHE
2	C	630	ARG
2	C	632	ASN
2	C	650	ARG
2	C	672	VAL
2	C	674	VAL
2	C	676	ILE
2	C	680	ASP
2	C	683	ASN
2	C	699	PHE
2	C	720	GLU

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Mol	Chain	Res	Type
2	C	723	THR
2	C	731	GLU
2	C	738	ASP
2	C	749	VAL
2	C	761	PHE
2	C	787	ASP
2	C	826	TYR
2	C	857	ASP
2	C	861	LEU
2	C	879	ARG
2	C	881	ASN
2	C	916	GLU
2	C	953	VAL
2	C	958	THR
2	C	1003	ASP
2	C	1020	PRO
2	C	1035	MET
2	C	1048	THR
2	C	1051	GLU
2	C	1099	VAL
2	C	1101	THR
3	D	16	GLU
3	D	33	ASN
3	D	36	THR
3	D	60	CYS
3	D	74	GLU
3	D	81	THR
3	D	87	ARG
3	D	111	LYS
3	D	133	ILE
3	D	135	LEU
3	D	142	LEU
3	D	153	LEU
3	D	156	GLU
3	D	171	LEU
3	D	172	PRO
3	D	178	LEU
3	D	248	PRO
3	D	291	LEU
3	D	297	ILE
3	D	334	THR
3	D	336	PHE

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Mol	Chain	Res	Type
3	D	338	GLU
3	D	351	MET
3	D	361	VAL
3	D	387	LEU
3	D	404	GLU
3	D	413	ASP
3	D	430	ASP
3	D	438	ASP
3	D	442	ASN
3	D	445	ARG
3	D	450	TYR
3	D	451	ASP
3	D	473	LEU
3	D	502	PHE
3	D	511	TRP
3	D	535	PHE
3	D	537	THR
3	D	542	ASP
3	D	546	ARG
3	D	564	GLU
3	D	565	ILE
3	D	569	ASN
3	D	594	PRO
3	D	602	SER
3	D	604	THR
3	D	605	ASP
3	D	614	PHE
3	D	617	ASN
3	D	618	LEU
3	D	624	ASP
3	D	653	PHE
3	D	685	ASP
3	D	724	GLN
3	D	745	MET
3	D	754	PHE
3	D	756	GLN
3	D	776	GLU
3	D	782	SER
3	D	784	ASP
3	D	792	ILE
3	D	797	LYS
3	D	800	LYS

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Mol	Chain	Res	Type
3	D	828	LYS
3	D	829	VAL
3	D	847	ASP
3	D	851	LEU
3	D	907	GLU
3	D	914	LEU
3	D	936	TYR
3	D	937	TYR
3	D	952	ASP
3	D	972	LEU
3	D	991	GLN
3	D	997	THR
3	D	1018	ASN
3	D	1029	ARG
3	D	1067	VAL
3	D	1083	ASP
3	D	1084	THR
3	D	1095	THR
3	D	1104	GLU
3	D	1124	GLN
3	D	1130	ARG
3	D	1139	ASP
3	D	1167	SER
3	D	1190	SER
3	D	1211	MET
3	D	1213	ARG
3	D	1217	ILE
3	D	1239	ARG
3	D	1252	ILE
3	D	1269	LYS
3	D	1285	GLU
3	D	1299	PHE
3	D	1307	LYS
3	D	1337	GLU
3	D	1342	GLU
3	D	1346	ARG
3	D	1350	GLU
3	D	1396	GLU
3	D	1398	TRP
3	D	1401	GLU
3	D	1405	GLU
3	D	1434	TRP

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Mol	Chain	Res	Type
3	D	1442	ASN
3	D	1458	GLU
3	D	1472	ILE
3	D	1479	ASP
3	D	1483	PHE
3	D	1495	ILE
3	D	1499	ARG
4	E	23	VAL
4	E	37	ASN
4	E	55	PHE
4	E	57	ASP
4	E	83	ASP
4	E	85	LEU
4	E	93	TYR
5	F	110	MET
5	F	118	GLU
5	F	150	THR
5	F	174	LEU
5	F	218	GLN
5	F	228	GLU
5	F	245	GLN
5	F	257	THR
5	F	287	THR
5	F	291	ILE
5	F	302	LYS
5	F	308	LEU
5	F	312	GLN
5	F	313	GLU
5	F	314	PRO
5	F	329	TYR
5	F	335	ASP
5	F	336	GLU
5	F	343	ASP
5	F	353	GLU
5	F	360	LYS
5	F	377	ASP
5	F	379	ARG
5	F	398	ARG
5	F	405	LEU
5	F	409	LYS
5	F	410	TYR
5	F	411	HIS

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Mol	Chain	Res	Type
5	F	418	LEU
5	F	420	ASP
1	K	3	ASP
1	K	9	PRO
1	K	13	VAL
1	K	64	GLU
1	K	74	ASP
1	K	94	LEU
1	K	100	LEU
1	K	124	ASN
1	K	176	ARG
1	K	182	GLU
1	K	183	ASP
1	K	191	ASP
1	L	9	PRO
1	L	23	PHE
1	L	28	LEU
1	L	40	LEU
1	L	68	ILE
1	L	82	LEU
1	L	113	ASP
1	L	114	PHE
1	L	119	ASP
1	L	140	MET
1	L	143	ARG
1	L	145	ASP
1	L	183	ASP
1	L	193	ASP
2	M	1	MET
2	M	13	ILE
2	M	15	LEU
2	M	26	TYR
2	M	41	ASN
2	M	42	VAL
2	M	71	TYR
2	M	72	ARG
2	M	73	LEU
2	M	81	ASP
2	M	104	ASP
2	M	107	LEU
2	M	113	VAL
2	M	117	HIS

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Mol	Chain	Res	Type
2	M	133	ASP
2	M	158	TYR
2	M	179	ASN
2	M	184	MET
2	M	216	GLU
2	M	226	VAL
2	M	227	PHE
2	M	230	ARG
2	M	233	GLU
2	M	239	PHE
2	M	251	ASP
2	M	269	LEU
2	M	285	LEU
2	M	289	THR
2	M	290	LEU
2	M	320	HIS
2	M	344	PHE
2	M	359	MET
2	M	361	MET
2	M	367	LEU
2	M	371	LYS
2	M	372	LEU
2	M	403	SER
2	M	429	ASP
2	M	441	VAL
2	M	463	GLU
2	M	507	ARG
2	M	516	ARG
2	M	535	SER
2	M	562	SER
2	M	566	THR
2	M	579	VAL
2	M	584	GLU
2	M	600	ASP
2	M	607	ASP
2	M	610	ARG
2	M	616	GLU
2	M	628	PHE
2	M	630	ARG
2	M	632	ASN
2	M	650	ARG
2	M	653	ASP

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Mol	Chain	Res	Type
2	M	657	ASP
2	M	672	VAL
2	M	676	ILE
2	M	699	PHE
2	M	720	GLU
2	M	737	LEU
2	M	739	GLU
2	M	744	ARG
2	M	761	PHE
2	M	787	ASP
2	M	808	ARG
2	M	858	MET
2	M	861	LEU
2	M	876	VAL
2	M	879	ARG
2	M	881	ASN
2	M	916	GLU
2	M	953	VAL
2	M	958	THR
2	M	971	LYS
2	M	975	TYR
2	M	976	ASP
2	M	988	VAL
2	M	1003	ASP
2	M	1058	ASP
2	M	1059	ASP
3	N	16	GLU
3	N	33	ASN
3	N	36	THR
3	N	81	THR
3	N	87	ARG
3	N	111	LYS
3	N	112	ILE
3	N	119	SER
3	N	125	GLN
3	N	131	LYS
3	N	133	ILE
3	N	135	LEU
3	N	149	LYS
3	N	167	GLU
3	N	206	ARG
3	N	213	VAL

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Mol	Chain	Res	Type
3	N	224	ARG
3	N	226	PRO
3	N	315	ARG
3	N	337	LEU
3	N	338	GLU
3	N	350	HIS
3	N	351	MET
3	N	387	LEU
3	N	392	SER
3	N	404	GLU
3	N	430	ASP
3	N	432	TYR
3	N	434	ARG
3	N	441	ARG
3	N	445	ARG
3	N	450	TYR
3	N	451	ASP
3	N	456	MET
3	N	470	LEU
3	N	481	MET
3	N	485	SER
3	N	500	ARG
3	N	502	PHE
3	N	511	TRP
3	N	535	PHE
3	N	564	GLU
3	N	565	ILE
3	N	566	ILE
3	N	602	SER
3	N	605	ASP
3	N	614	PHE
3	N	617	ASN
3	N	618	LEU
3	N	624	ASP
3	N	653	PHE
3	N	669	ASN
3	N	692	GLU
3	N	724	GLN
3	N	725	SER
3	N	734	GLU
3	N	745	MET
3	N	754	PHE

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Mol	Chain	Res	Type
3	N	762	GLN
3	N	769	LEU
3	N	778	LEU
3	N	784	ASP
3	N	798	GLU
3	N	799	LYS
3	N	800	LYS
3	N	809	PRO
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	847	ASP
3	N	867	ARG
3	N	875	THR
3	N	907	GLU
3	N	921	ARG
3	N	936	TYR
3	N	941	PHE
3	N	947	ILE
3	N	965	GLU
3	N	972	LEU
3	N	985	ASP
3	N	990	ASP
3	N	991	GLN
3	N	999	THR
3	N	1021	TYR
3	N	1067	VAL
3	N	1084	THR
3	N	1087	ARG
3	N	1095	THR
3	N	1130	ARG
3	N	1139	ASP
3	N	1167	SER
3	N	1188	VAL
3	N	1201	CYS
3	N	1213	ARG
3	N	1215	VAL
3	N	1217	ILE
3	N	1239	ARG
3	N	1251	ASP
3	N	1263	PHE
3	N	1267	ARG

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Mol	Chain	Res	Type
3	N	1285	GLU
3	N	1299	PHE
3	N	1307	LYS
3	N	1308	GLU
3	N	1337	GLU
3	N	1342	GLU
3	N	1346	ARG
3	N	1387	SER
3	N	1401	GLU
3	N	1405	GLU
3	N	1430	SER
3	N	1434	TRP
3	N	1439	SER
3	N	1441	GLN
3	N	1442	ASN
3	N	1449	GLU
3	N	1460	ILE
3	N	1464	GLU
3	N	1472	ILE
3	N	1479	ASP
3	N	1485	GLN
3	N	1495	ILE
3	N	1499	ARG
4	O	23	VAL
4	O	37	ASN
4	O	40	LEU
4	O	57	ASP
4	O	83	ASP
4	O	85	LEU
4	O	86	GLN
4	O	88	GLU
4	O	93	TYR
5	P	94	LEU
5	P	107	GLU
5	P	118	GLU
5	P	138	SER
5	P	143	HIS
5	P	156	VAL
5	P	163	LEU
5	P	212	LEU
5	P	233	PHE
5	P	245	GLN

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Mol	Chain	Res	Type
5	P	257	THR
5	P	264	MET
5	P	287	THR
5	P	291	ILE
5	P	302	LYS
5	P	306	GLU
5	P	308	LEU
5	P	313	GLU
5	P	314	PRO
5	P	327	SER
5	P	328	PHE
5	P	329	TYR
5	P	331	ASP
5	P	334	PRO
5	P	336	GLU
5	P	353	GLU
5	P	355	GLU
5	P	367	MET
5	P	373	LYS
5	P	379	ARG
5	P	382	THR
5	P	409	LYS
5	P	410	TYR
5	P	411	HIS
5	P	414	ARG
5	P	418	LEU
5	P	420	ASP
5	P	422	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (140) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	91	ASN
1	A	95	GLN
1	A	128	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	212	ASN
1	A	213	GLN

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Mol	Chain	Res	Type
1	A	221	HIS
1	B	91	ASN
1	B	95	GLN
1	B	128	HIS
1	B	139	ASN
2	C	31	GLN
2	C	91	GLN
2	C	99	GLN
2	C	117	HIS
2	C	130	ASN
2	C	141	HIS
2	C	179	ASN
2	C	204	GLN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	575	GLN
2	C	683	ASN
2	C	704	HIS
2	C	829	GLN
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	991	GLN
2	C	1006	HIS
2	C	1018	GLN
2	C	1100	GLN
2	C	1107	ASN
3	D	316	GLN
3	D	442	ASN
3	D	549	ASN
3	D	552	ASN
3	D	569	ASN
3	D	680	GLN
3	D	696	HIS
3	D	703	ASN
3	D	727	GLN
3	D	729	HIS
3	D	744	GLN
3	D	748	HIS
3	D	824	ASN
3	D	906	GLN

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Mol	Chain	Res	Type
3	D	962	GLN
3	D	973	GLN
3	D	994	GLN
3	D	1010	ASN
3	D	1014	ASN
3	D	1034	GLN
3	D	1103	HIS
3	D	1124	GLN
3	D	1172	HIS
3	D	1359	GLN
3	D	1442	ASN
3	D	1489	GLN
4	E	28	GLN
4	E	86	GLN
5	F	83	GLN
5	F	170	HIS
5	F	214	GLN
5	F	217	ASN
5	F	245	GLN
5	F	263	HIS
5	F	269	ASN
5	F	347	GLN
5	F	399	GLN
5	F	402	ASN
5	F	411	HIS
1	K	38	ASN
1	K	81	ASN
1	K	128	HIS
1	K	163	ASN
1	K	188	GLN
1	K	212	ASN
1	L	38	ASN
1	L	91	ASN
1	L	95	GLN
1	L	128	HIS
1	L	156	HIS
1	L	188	GLN
1	L	212	ASN
2	M	41	ASN
2	M	91	GLN
2	M	179	ASN
2	M	330	ASN

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Mol	Chain	Res	Type
2	M	374	ASN
2	M	390	GLN
2	M	434	HIS
2	M	567	GLN
2	M	575	GLN
2	M	632	ASN
2	M	633	GLN
2	M	860	HIS
2	M	881	ASN
2	M	899	GLN
2	M	969	GLN
2	M	1047	HIS
2	M	1050	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	316	GLN
3	N	552	ASN
3	N	569	ASN
3	N	617	ASN
3	N	703	ASN
3	N	714	GLN
3	N	729	HIS
3	N	744	GLN
3	N	824	ASN
3	N	962	GLN
3	N	973	GLN
3	N	994	GLN
3	N	1103	HIS
3	N	1323	GLN
3	N	1442	ASN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS
4	O	86	GLN
5	P	170	HIS
5	P	186	HIS
5	P	214	GLN
5	P	217	ASN
5	P	245	GLN
5	P	254	GLN
5	P	269	ASN

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Mol	Chain	Res	Type
5	P	279	GLN
5	P	347	GLN
5	P	399	GLN
5	P	402	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 14 ligands modelled in this entry, 7 are monoatomic - leaving 7 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	MPD	C	1120	-	7,7,7	2.22	1 (14%)	9,10,10	1.16	0
8	MPD	C	1121	-	7,7,7	2.24	1 (14%)	9,10,10	1.11	0
10	NE6	N	1528	-	29,30,30	3.64	7 (24%)	27,39,39	1.81	4 (14%)
8	MPD	M	1120	-	7,7,7	2.12	1 (14%)	9,10,10	1.09	0
6	PO4	D	1528	-	4,4,4	1.63	0	6,6,6	0.44	0
6	PO4	A	316	-	4,4,4	1.57	0	6,6,6	0.44	0
10	NE6	D	1529	-	29,30,30	3.60	7 (24%)	27,39,39	1.77	4 (14%)

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	MPD	C	1120	-	-	5/5/5/5	-
8	MPD	C	1121	-	-	0/5/5/5	-
10	NE6	N	1528	-	1/1/9/13	11/26/46/46	0/1/1/1
8	MPD	M	1120	-	-	2/5/5/5	-
10	NE6	D	1529	-	1/1/9/13	9/26/46/46	0/1/1/1

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	N	1528	NE6	C11-C12	-14.72	1.35	1.49
10	D	1529	NE6	C11-C12	-14.09	1.35	1.49
10	D	1529	NE6	O4-C4	10.74	1.38	1.22
10	N	1528	NE6	O4-C4	10.57	1.38	1.22
8	C	1121	MPD	O2-C2	-5.47	1.30	1.44
8	C	1120	MPD	O2-C2	-5.44	1.30	1.44
8	M	1120	MPD	O2-C2	-5.15	1.31	1.44
10	D	1529	NE6	C12-N12	3.37	1.39	1.26
10	N	1528	NE6	C3-C4	-3.30	1.39	1.50
10	D	1529	NE6	C3-C4	-3.28	1.39	1.50
10	N	1528	NE6	C19-C20	3.17	1.37	1.34
10	D	1529	NE6	C15-C16	3.07	1.53	1.48
10	N	1528	NE6	C12-N12	2.94	1.37	1.26
10	D	1529	NE6	C19-C20	2.56	1.36	1.34
10	N	1528	NE6	C15-C16	2.42	1.52	1.48
10	D	1529	NE6	O14-C13	2.10	1.38	1.33
10	N	1528	NE6	C3-C15	-2.08	1.49	1.53

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	N	1528	NE6	O14-C13-N12	4.67	114.87	108.77
10	D	1529	NE6	O14-C13-N12	4.36	114.46	108.77
10	D	1529	NE6	O1-C2-O2	4.30	121.05	116.94
10	N	1528	NE6	O1-C2-O2	4.18	120.94	116.94
10	D	1529	NE6	O4-C4-C5	-3.84	114.87	121.50
10	N	1528	NE6	O4-C4-C5	-3.83	114.89	121.50
10	D	1529	NE6	C4-C5-C6	-2.92	119.10	121.20
10	N	1528	NE6	C4-C5-C6	-2.89	119.12	121.20

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
10	D	1529	NE6	C3
10	N	1528	NE6	C3

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	C	1120	MPD	C1-C2-C3-C4
8	C	1120	MPD	O2-C2-C3-C4
10	D	1529	NE6	O15-C15-C3-C2
10	D	1529	NE6	O1-C6-C7-C8
10	D	1529	NE6	O1-C6-C7-C9
10	D	1529	NE6	C9-C10-C11-C12
10	D	1529	NE6	C3-C15-C16-C17
10	N	1528	NE6	O1-C6-C7-C8
10	N	1528	NE6	O1-C6-C7-C9
10	N	1528	NE6	C8-C7-C9-C10
10	N	1528	NE6	C3-C15-C16-C18
10	N	1528	NE6	O15-C15-C16-C18
10	D	1529	NE6	C16-C15-C3-C2
10	N	1528	NE6	C16-C15-C3-C2
10	N	1528	NE6	O15-C15-C3-C2
10	N	1528	NE6	C3-C15-C16-C17
10	D	1529	NE6	O15-C15-C16-C17
10	D	1529	NE6	O15-C15-C16-C18
10	N	1528	NE6	O15-C15-C16-C17
10	D	1529	NE6	C5-C6-C7-C8
10	N	1528	NE6	C5-C6-C7-C8
8	C	1120	MPD	CM-C2-C3-C4
10	N	1528	NE6	C6-C7-C9-C10
8	C	1120	MPD	C2-C3-C4-C5
8	M	1120	MPD	C2-C3-C4-C5
8	C	1120	MPD	C2-C3-C4-O4
8	M	1120	MPD	C2-C3-C4-O4

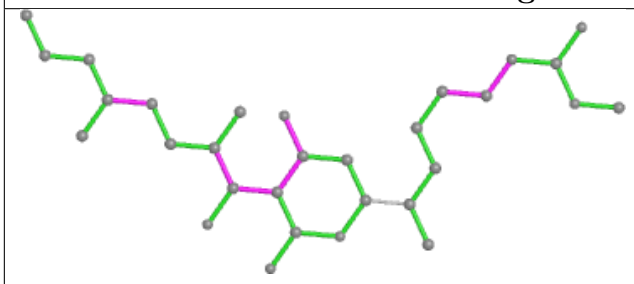
There are no ring outliers.

3 monomers are involved in 16 short contacts:

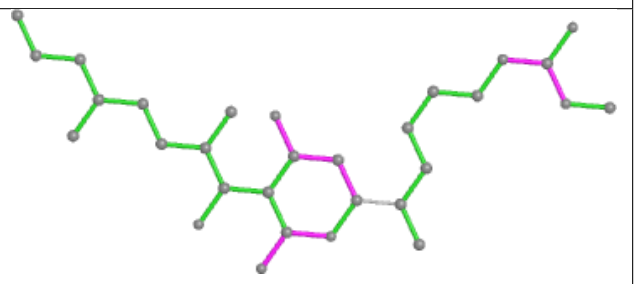
Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	N	1528	NE6	7	0
6	D	1528	PO4	1	0
10	D	1529	NE6	8	0

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 then 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.

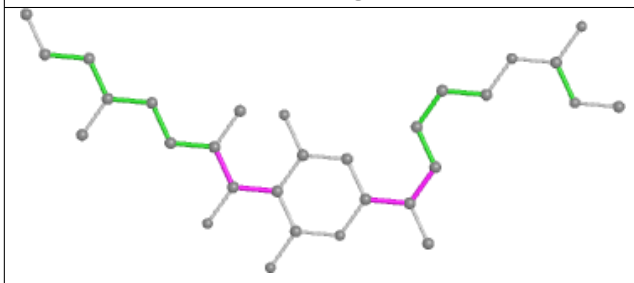
Ligand NE6 N 1528



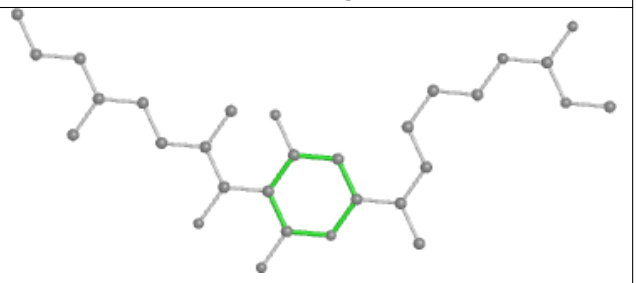
Bond lengths



Bond angles

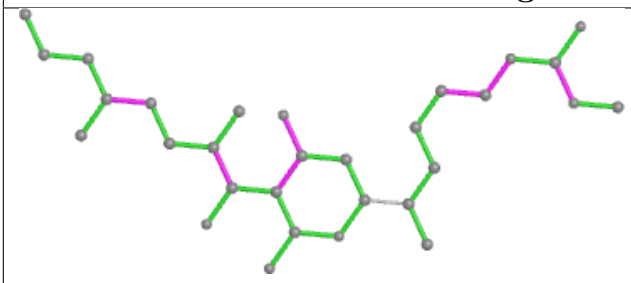


Torsions

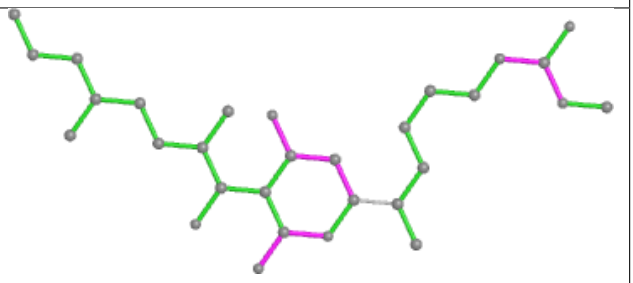


Rings

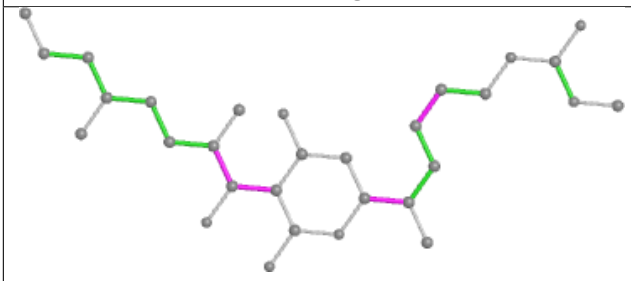
Ligand NE6 D 1529



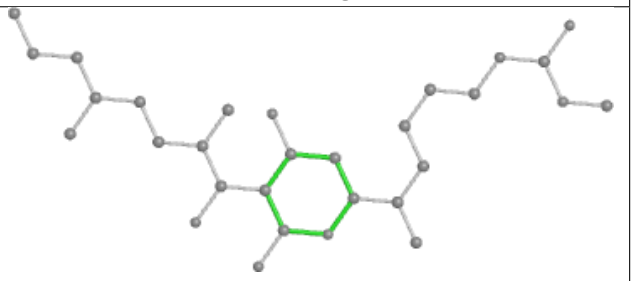
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95^{th} 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	231/315 (73%)	-0.66	0 100 100	43, 72, 100, 115	0
1	B	243/315 (77%)	-0.82	0 100 100	51, 93, 113, 117	0
1	K	231/315 (73%)	-0.68	0 100 100	45, 73, 105, 117	0
1	L	243/315 (77%)	-0.81	0 100 100	56, 89, 112, 117	0
2	C	1119/1119 (100%)	-0.73	0 100 100	36, 77, 115, 117	0
2	M	1119/1119 (100%)	-0.72	0 100 100	31, 79, 115, 117	0
3	D	1504/1524 (98%)	-0.70	1 (0%) 95 89	35, 78, 117, 117	0
3	N	1504/1524 (98%)	-0.68	3 (0%) 95 87	34, 75, 113, 117	0
4	E	95/99 (95%)	-0.81	0 100 100	51, 88, 113, 117	0
4	O	95/99 (95%)	-0.78	0 100 100	52, 85, 109, 116	0
5	F	349/423 (82%)	-0.85	0 100 100	52, 84, 110, 117	0
5	P	349/423 (82%)	-0.81	0 100 100	51, 85, 110, 117	0
All	All	7082/7590 (93%)	-0.72	4 (0%) 95 89	31, 79, 115, 117	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	243	ALA	4.1
3	N	242	LEU	3.2
3	N	328	GLY	3.0
3	D	329	GLU	2.1

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

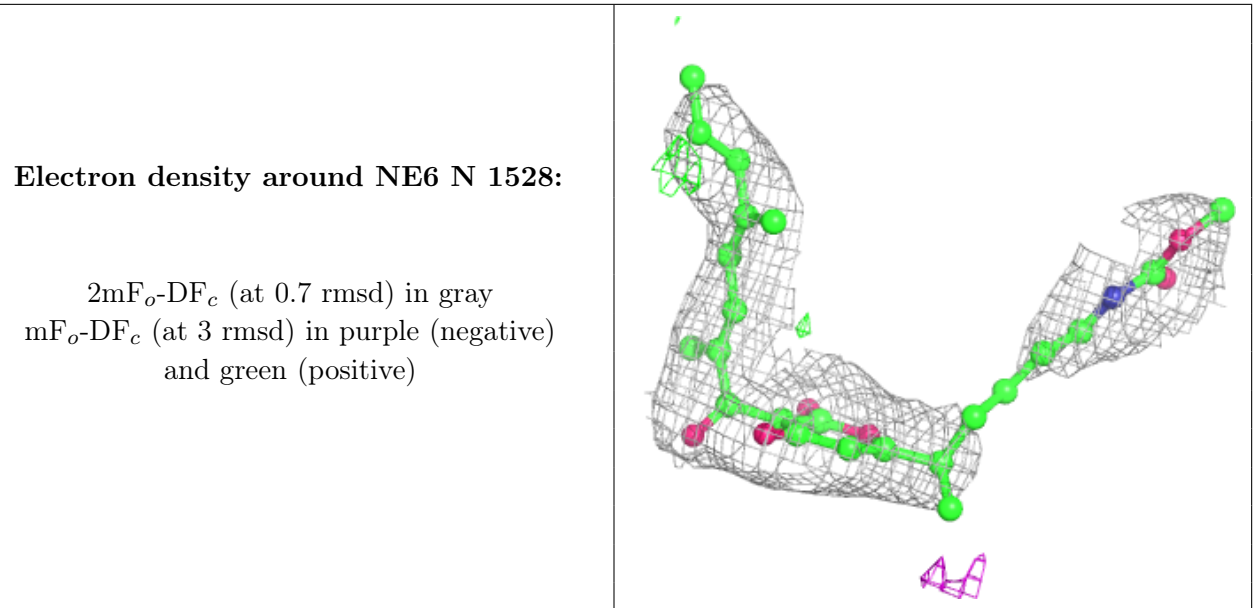
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

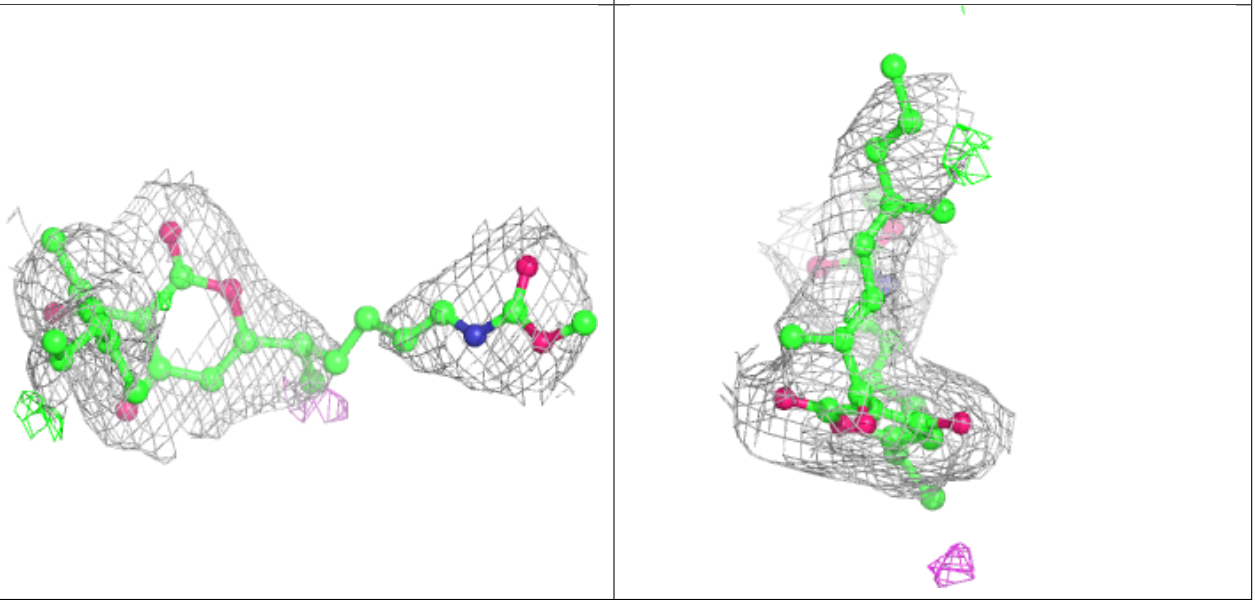
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
8	MPD	M	1120	8/8	0.92	0.17	71,79,84,85	0
10	NE6	N	1528	30/30	0.94	0.29	72,84,90,91	0
7	MG	D	1527	1/1	0.96	0.07	79,79,79,79	0
8	MPD	C	1121	8/8	0.96	0.15	70,72,73,73	0
6	PO4	A	316	5/5	0.96	0.18	71,73,77,77	0
9	ZN	D	1525	1/1	0.96	0.17	91,91,91,91	0
10	NE6	D	1529	30/30	0.96	0.22	52,70,81,85	0
6	PO4	D	1528	5/5	0.96	0.14	86,86,86,89	0
8	MPD	C	1120	8/8	0.97	0.17	51,56,57,57	0
7	MG	B	701	1/1	0.97	0.20	55,55,55,55	0
7	MG	N	1527	1/1	0.97	0.04	56,56,56,56	0
9	ZN	N	1525	1/1	0.99	0.19	50,50,50,50	0
9	ZN	D	1526	1/1	1.00	0.18	77,77,77,77	0
9	ZN	N	1526	1/1	1.00	0.18	55,55,55,55	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.

Electron density around NE6 N 1528:

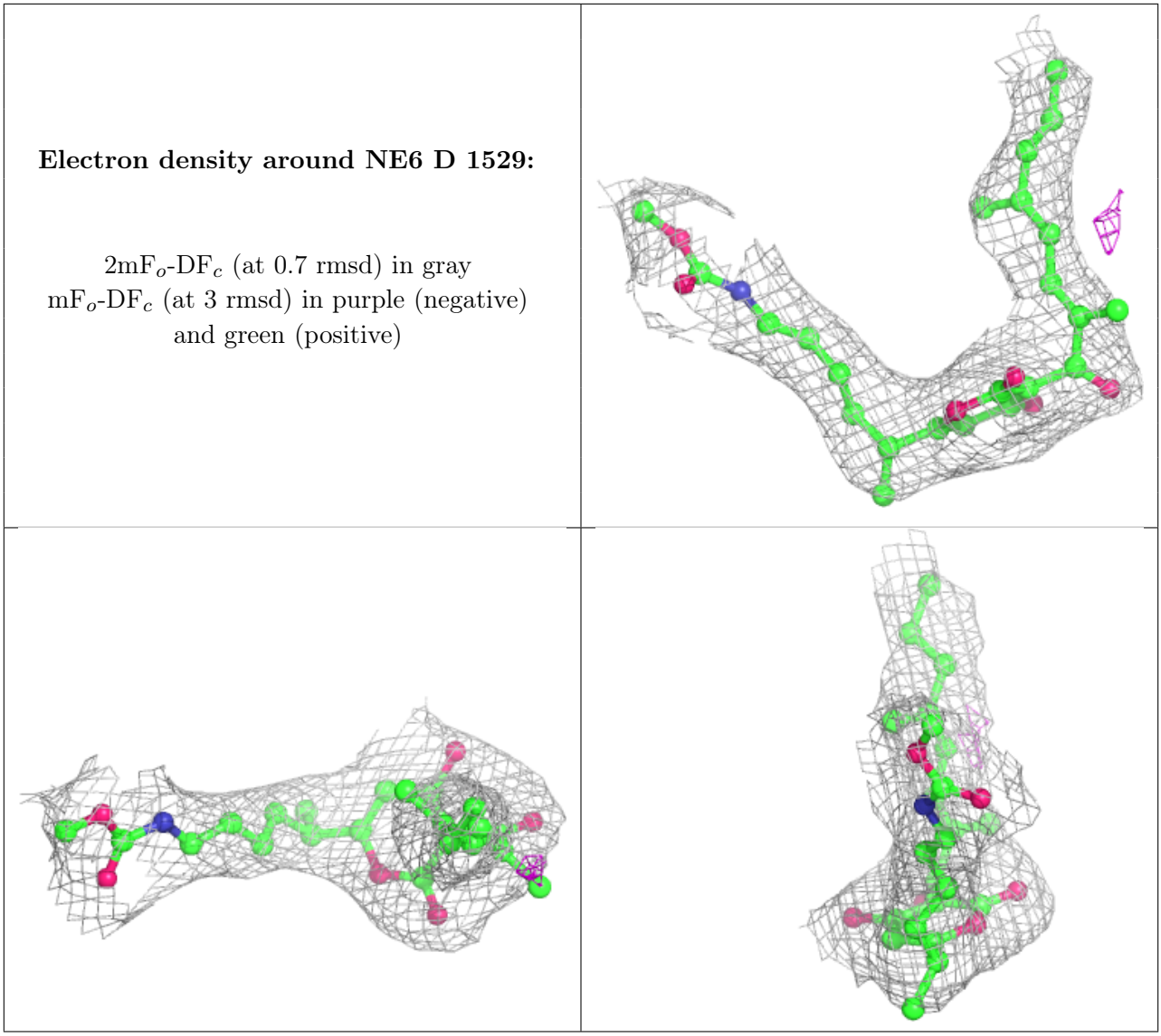
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





Electron density around NE6 D 1529:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers

There are no such residues in this entry.