



## Full wwPDB EM Validation Report ⓘ

Nov 2, 2024 – 04:11 pm GMT

PDB ID : 6R7I  
EMDB ID : EMD-4742  
Title : Structural basis of Cullin-2 RING E3 ligase regulation by the COP9 signalosome  
Authors : Faull, S.F.; Lau, A.M.C.; Beuron, F.; Cronin, N.B.; Morris, E.P.; Politis, A.  
Deposited on : 2019-03-28  
Resolution : 5.90 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev113  
Mogul : 1.8.4, CSD as541be (2020)  
MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

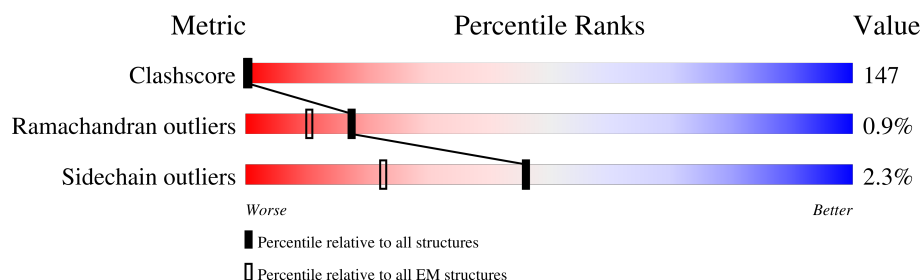
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

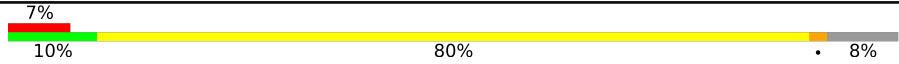
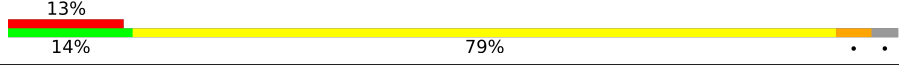
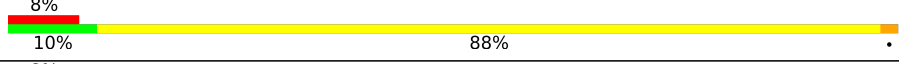

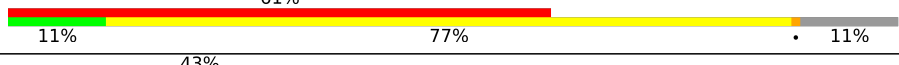
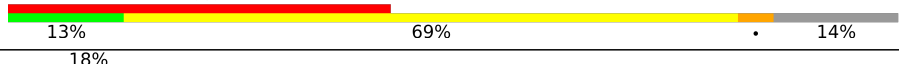
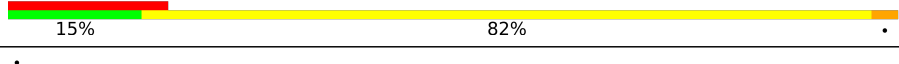
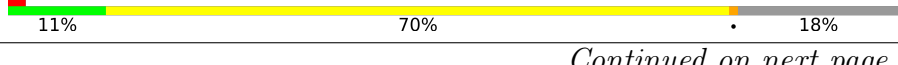
The reported resolution of this entry is 5.90 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	462	
2	B	443	
3	C	401	
4	D	407	
5	E	334	
6	F	327	
7	G	215	
8	H	209	

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Mol	Chain	Length	Quality of chain
9	N	78	<div><div></div><div>96%</div><div>10%</div><div>87%</div><div></div></div>
10	O	745	<div><div></div><div>33%</div><div>14%</div><div>78%</div><div>7%</div><div></div></div>
11	P	106	<div><div></div><div>26%</div><div>9%</div><div>88%</div><div></div></div>
12	Q	99	<div><div></div><div>26%</div><div>30%</div><div>53%</div><div>14%</div><div></div></div>
13	R	85	<div><div></div><div>41%</div><div>5%</div><div>89%</div><div>6%</div><div></div></div>

## 2 Entry composition

There are 15 unique types of molecules in this entry. The entry contains 34171 atoms, of which 4049 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called COP9 signalosome complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	426	Total	C	N	O	S	0	0
			3382	2133	595	632	22		

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	70	LYS	-	expression tag	UNP Q13098
A	71	VAL	-	expression tag	UNP Q13098
A	72	TYR	-	expression tag	UNP Q13098
A	73	ILE	-	expression tag	UNP Q13098
A	74	GLU	-	expression tag	UNP Q13098
A	75	LYS	-	expression tag	UNP Q13098
A	76	ASP	-	expression tag	UNP Q13098

- Molecule 2 is a protein called COP9 signalosome complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	428	Total	C	N	O	S	0	0
			3429	2177	591	646	15		

- Molecule 3 is a protein called COP9 signalosome complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	400	Total	C	N	O	S	0	0
			3183	2028	533	596	26		

- Molecule 4 is a protein called COP9 signalosome complex subunit 4.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	D	407	Total	C	H	N	O	S	8	0
			6249	2075	2959	572	623	20		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	0	ARG	-	expression tag	UNP Q9BT78

- Molecule 5 is a protein called COP9 signalosome complex subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	298	Total	C	N	O	S	0	0
			2366	1510	393	450	13		

- Molecule 6 is a protein called COP9 signalosome complex subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	281	Total	C	N	O	S	0	0
			2236	1429	371	421	15		

- Molecule 7 is a protein called COP9 signalosome complex subunit 7b.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	215	Total	C	N	O	S	0	0
			1678	1060	283	328	7		

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	167	LEU	ILE	conflict	UNP Q9H9Q2
G	168	SER	ASN	conflict	UNP Q9H9Q2
G	169	ALA	ASN	conflict	UNP Q9H9Q2
G	171	ALA	VAL	conflict	UNP Q9H9Q2
G	172	ARG	LYS	conflict	UNP Q9H9Q2
G	175	GLN	HIS	conflict	UNP Q9H9Q2
G	179	VAL	ASP	conflict	UNP Q9H9Q2
G	183	VAL	ALA	conflict	UNP Q9H9Q2
G	186	SER	LEU	conflict	UNP Q9H9Q2
G	190	GLU	GLN	conflict	UNP Q9H9Q2
G	193	SER	LEU	conflict	UNP Q9H9Q2
G	198	HIS	TYR	conflict	UNP Q9H9Q2
G	201	GLN	ASN	conflict	UNP Q9H9Q2
G	202	GLN	HIS	conflict	UNP Q9H9Q2
G	203	LEU	ASN	conflict	UNP Q9H9Q2
G	204	GLY	ARG	conflict	UNP Q9H9Q2
G	205	LEU	THR	conflict	UNP Q9H9Q2
G	206	LYS	GLN	conflict	UNP Q9H9Q2
G	209	ILE	VAL	conflict	UNP Q9H9Q2
G	211	SER	ALA	conflict	UNP Q9H9Q2

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Chain	Residue	Modelled	Actual	Comment	Reference
G	214	ALA	THR	conflict	UNP Q9H9Q2

- Molecule 8 is a protein called COP9 signalosome complex subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	172	Total	C	N	O	S	0	0
			1379	883	239	253	4		

- Molecule 9 is a protein called NEDD8.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	N	78	Total	C	N	O	Se	0	0
			609	382	106	118	3		

- Molecule 10 is a protein called Cullin-2.

Mol	Chain	Residues	Atoms						AltConf	Trace
10	O	744	Total	C	H	N	O	S	0	0
			6393	3865	308	1031	1143	46		

- Molecule 11 is a protein called Elongin-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	P	106	Total	C	N	O	S	0	0
			831	526	140	161	4		

- Molecule 12 is a protein called Elongin-C.

Mol	Chain	Residues	Atoms						AltConf	Trace
12	Q	99	Total	C	H	N	O	S	0	0
			1577	505	782	121	165	4		

- Molecule 13 is a protein called E3 ubiquitin-protein ligase RBX1.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	R	85	Total	C	N	O	S	0	0
			686	431	127	119	9		

- Molecule 14 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
14	E	1	Total 1	Zn 1	0
14	R	3	Total 3	Zn 3	0

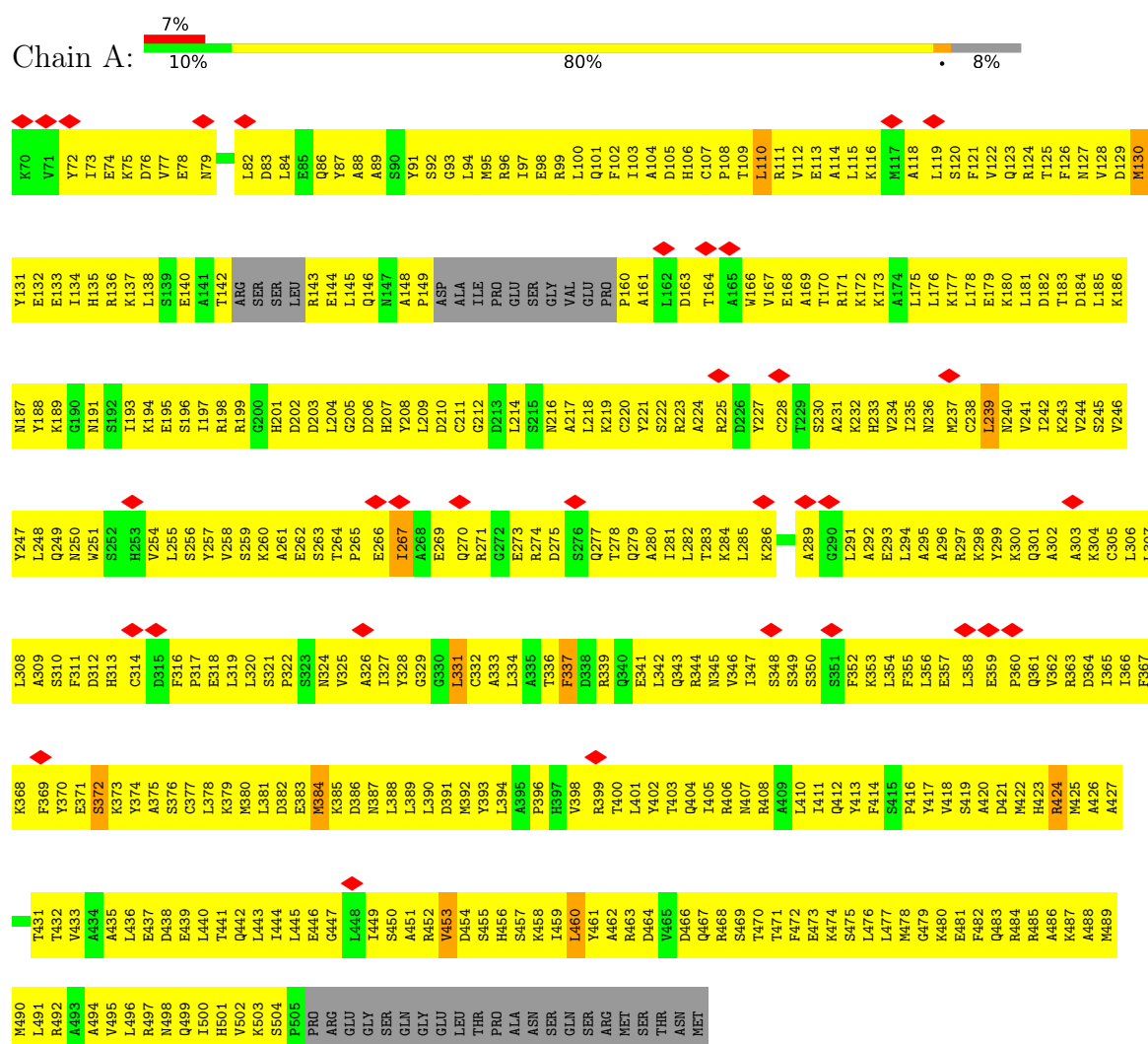
- Molecule 15 is water.

Mol	Chain	Residues	Atoms		AltConf
15	A	9	Total 9	O 9	0
15	P	144	Total 144	O 144	0
15	Q	16	Total 16	O 16	0

### 3 Residue-property plots

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

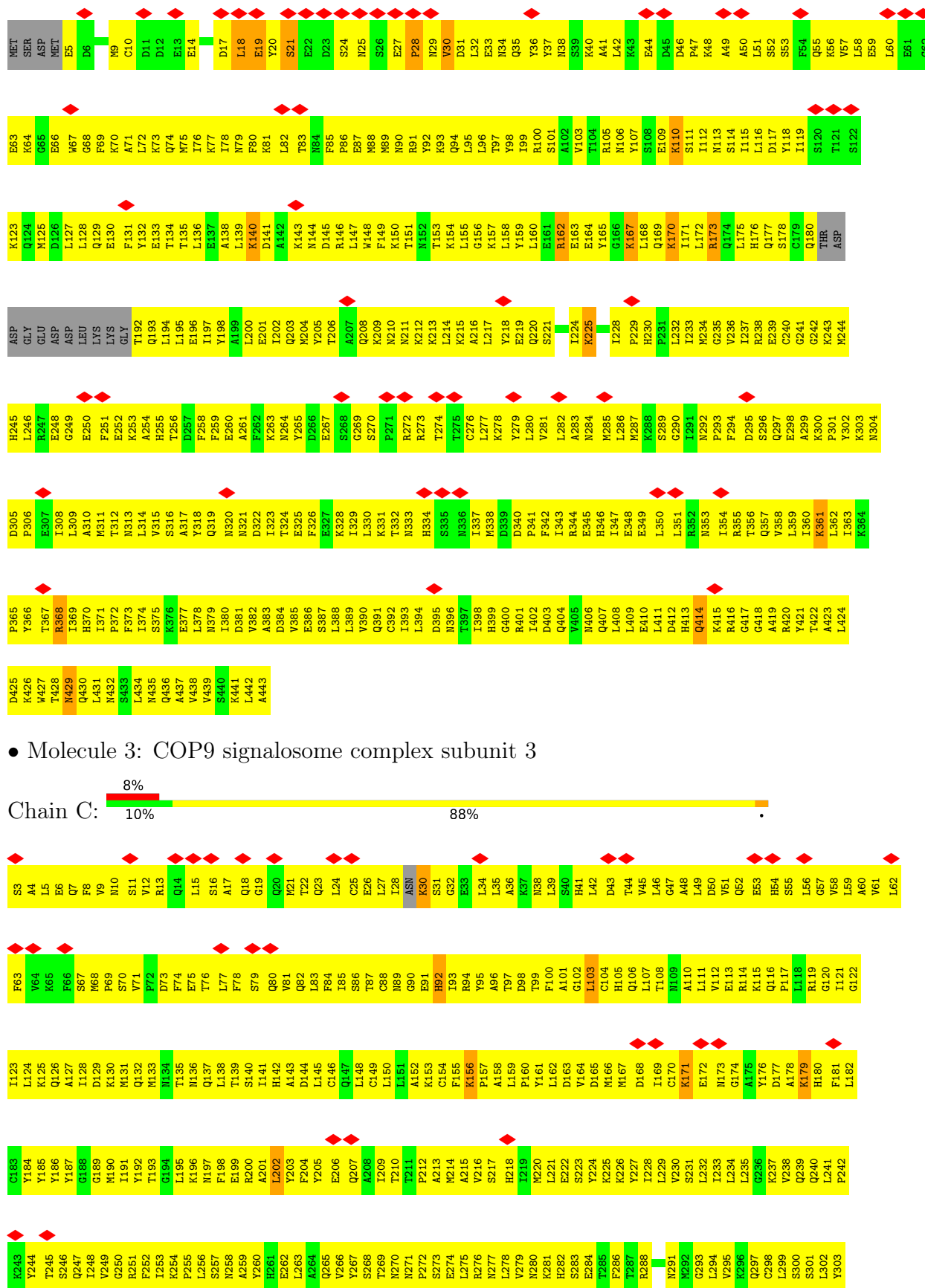
#### • Molecule 1: COP9 signalosome complex subunit 1



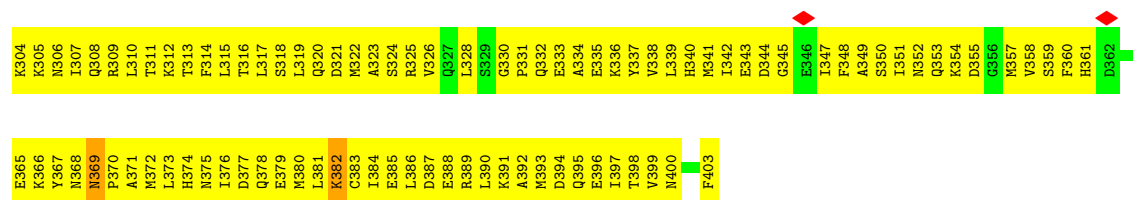
#### • Molecule 2: COP9 signalosome complex subunit 2



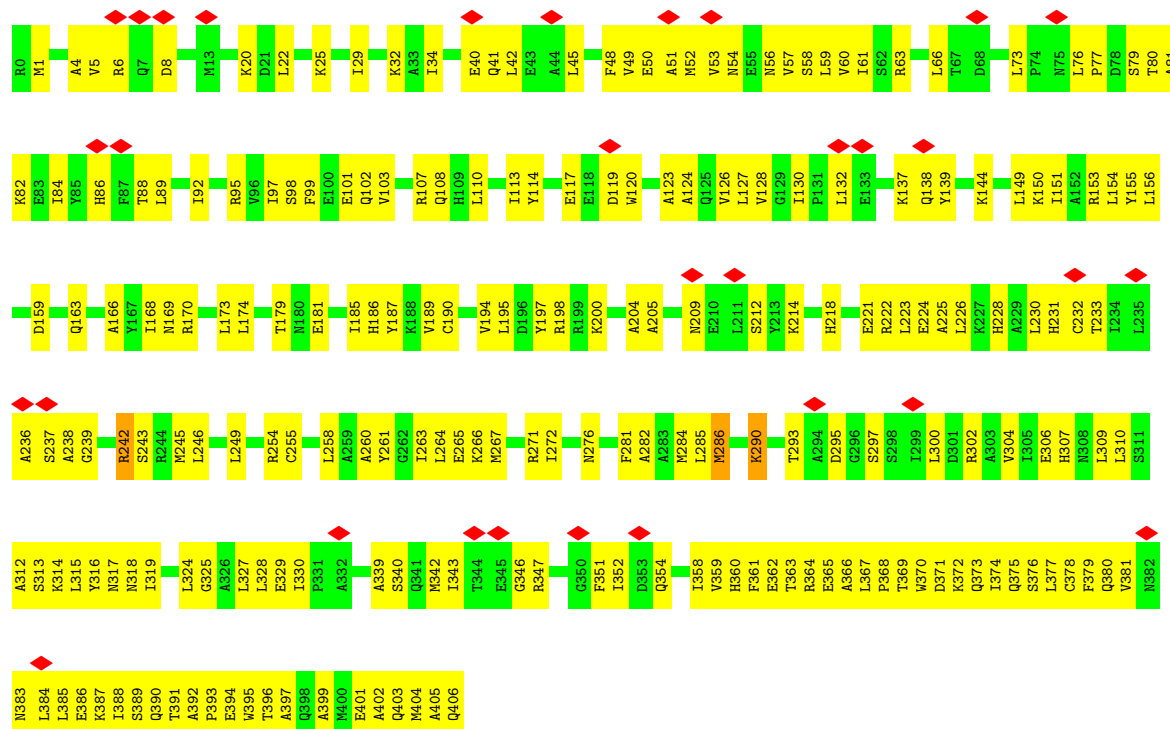




• Molecule 3: COP9 signalosome complex subunit 3

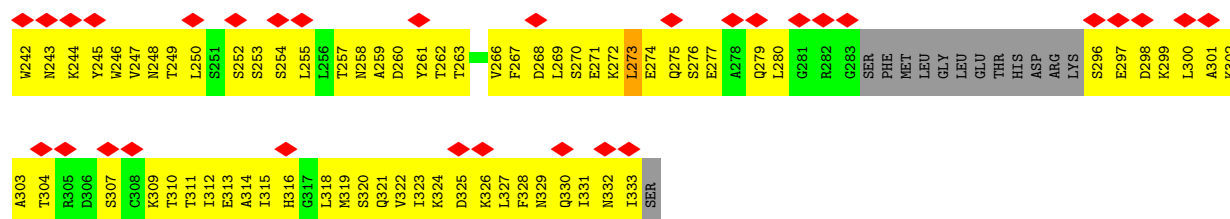


• Molecule 4: COP9 signalosome complex subunit 4

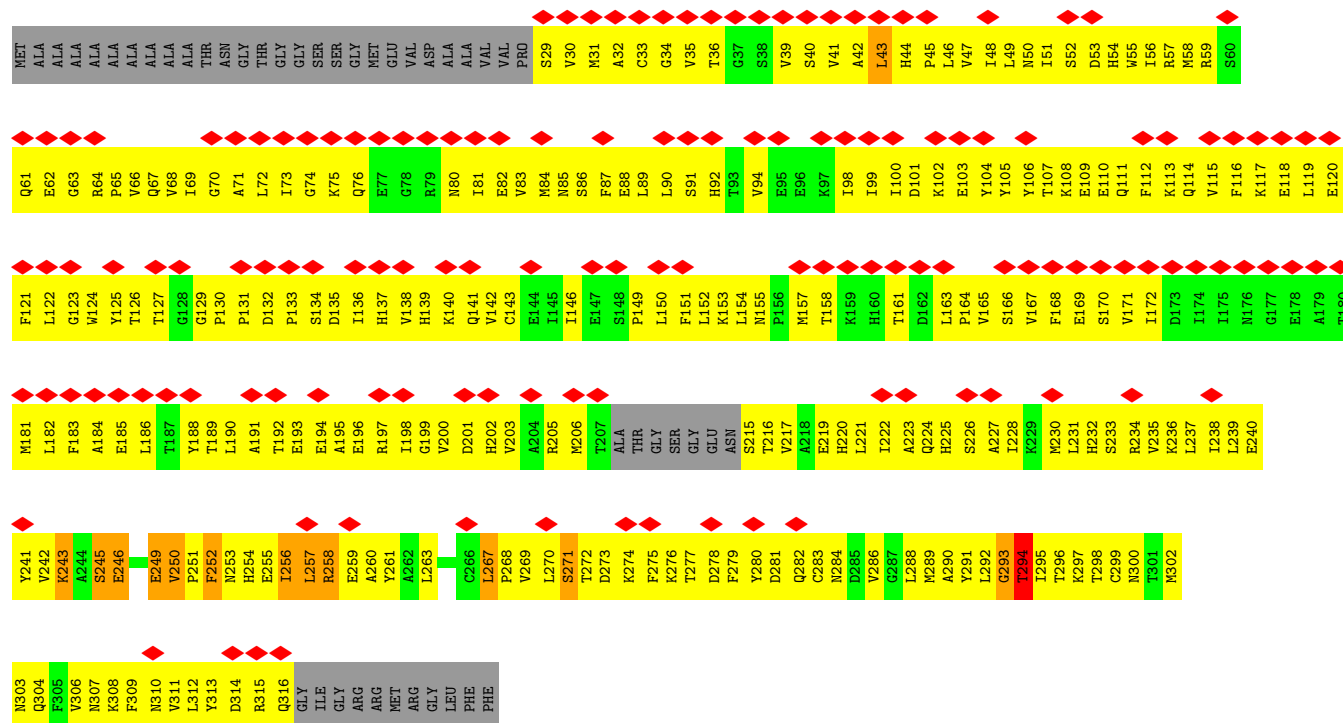
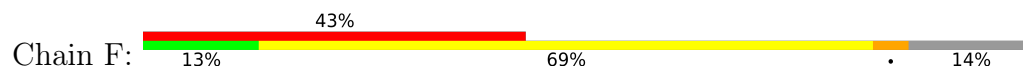


• Molecule 5: COP9 signalosome complex subunit 5

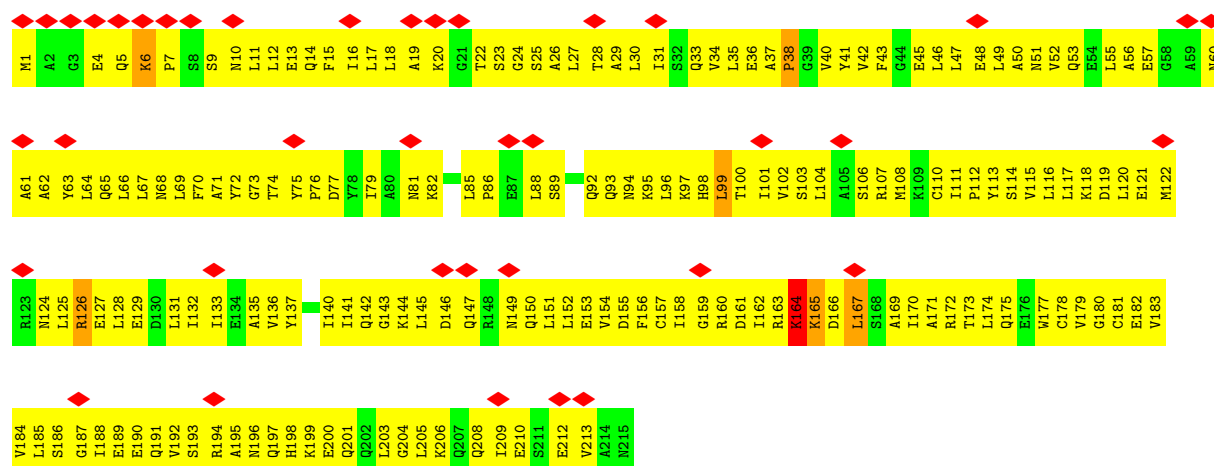




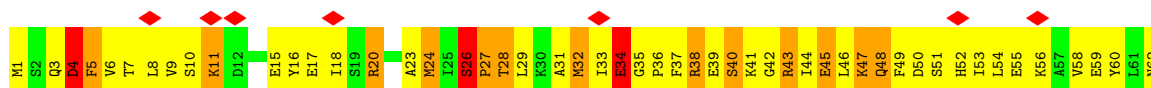
• Molecule 6: COP9 signalosome complex subunit 6



• Molecule 7: COP9 signalosome complex subunit 7b

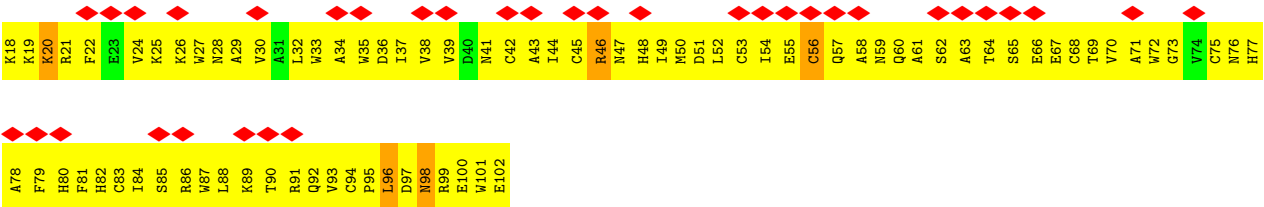








• Molecule 13: E3 ubiquitin-protein ligase RBX1



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	316921	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	40	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	28.966	Depositor
Minimum map value	-12.318	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	6	Depositor
Map size (Å)	317.99997, 317.99997, 317.99997	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

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	0.40	0/3437	0.84	3/4632 (0.1%)
2	B	0.40	1/3485 (0.0%)	0.54	2/4694 (0.0%)
3	C	0.40	0/3241	0.59	2/4376 (0.0%)
4	D	0.54	0/3354	0.73	2/4523 (0.0%)
5	E	0.38	1/2417 (0.0%)	0.61	3/3266 (0.1%)
6	F	0.67	3/2282 (0.1%)	1.12	6/3092 (0.2%)
7	G	0.34	0/1697	0.63	4/2293 (0.2%)
8	H	0.36	0/1411	0.50	0/1916
9	N	0.29	0/610	0.54	0/808
10	O	0.93	15/6193 (0.2%)	1.56	41/8323 (0.5%)
11	P	0.33	0/848	0.53	0/1148
12	Q	1.09	2/804 (0.2%)	2.07	7/1075 (0.7%)
13	R	0.39	0/702	0.68	0/950
All	All	0.60	22/30481 (0.1%)	1.00	70/41096 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	6
2	B	0	1
3	C	0	3
4	D	0	3
5	E	0	2
6	F	0	3
7	G	0	2
10	O	0	17
11	P	0	2
12	Q	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
13	R	0	4
All	All	0	49

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	O	256	PRO	C-N	-37.88	0.47	1.34
12	Q	26	SER	C-N	26.39	1.84	1.34
6	F	293	GLY	C-N	25.80	1.93	1.34
10	O	48	ALA	C-N	24.04	1.89	1.34
10	O	265	GLU	C-N	20.19	1.80	1.34
10	O	282	CYS	C-N	15.18	1.69	1.34
2	B	414	GLN	C-N	14.62	1.67	1.34
10	O	174	GLU	C-N	-12.22	1.05	1.34
10	O	274	HIS	C-N	-12.06	1.06	1.34
10	O	381	PRO	C-N	-9.40	1.12	1.34
10	O	204	GLN	C-N	-7.76	1.16	1.34
10	O	26	MET	C-N	6.53	1.49	1.34
10	O	289	GLU	C-N	-6.17	1.19	1.34
10	O	686	ARG	NE-CZ	6.06	1.41	1.33
10	O	691	ARG	CZ-NH2	6.01	1.40	1.33
10	O	669	ARG	NE-CZ	5.80	1.40	1.33
10	O	674	GLU	CD-OE1	5.57	1.31	1.25
10	O	676	ARG	NE-CZ	5.38	1.40	1.33
6	F	271	SER	C-N	5.32	1.46	1.34
12	Q	4	ASP	C-N	5.24	1.46	1.34
5	E	188	THR	C-N	-5.10	1.22	1.34
6	F	294	THR	C-N	-5.07	1.22	1.34

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	Q	4	ASP	O-C-N	-54.73	35.14	122.70
10	O	274	HIS	O-C-N	-47.18	47.21	122.70
10	O	265	GLU	O-C-N	-39.51	59.49	122.70
10	O	254	LEU	C-N-CA	-38.18	26.25	121.70
10	O	254	LEU	CA-C-N	-37.19	35.38	117.20
10	O	48	ALA	CA-C-N	-33.39	43.74	117.20
1	A	73	ILE	CA-C-N	-29.68	51.90	117.20
10	O	282	CYS	O-C-N	-28.42	77.22	122.70
6	F	271	SER	O-C-N	28.18	167.79	122.70
1	A	73	ILE	O-C-N	27.94	167.40	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	O	381	PRO	O-C-N	-27.93	78.02	122.70
6	F	294	THR	CA-C-N	-27.49	56.72	117.20
10	O	265	GLU	CA-C-N	27.02	176.65	117.20
10	O	26	MET	O-C-N	-25.55	81.83	122.70
10	O	360	GLY	O-C-N	-23.31	85.41	122.70
10	O	274	HIS	CA-C-N	22.91	167.61	117.20
6	F	271	SER	CA-C-N	-20.93	71.16	117.20
10	O	282	CYS	CA-C-N	20.28	161.81	117.20
12	Q	26	SER	O-C-N	-20.08	82.95	121.10
10	O	256	PRO	O-C-N	-19.66	91.25	122.70
6	F	294	THR	C-N-CA	-19.46	73.06	121.70
6	F	271	SER	C-N-CA	-18.33	75.89	121.70
12	Q	26	SER	C-N-CD	-17.38	82.36	120.60
10	O	265	GLU	C-N-CA	17.20	164.71	121.70
10	O	256	PRO	CA-C-N	-16.81	80.22	117.20
10	O	274	HIS	C-N-CA	16.59	163.17	121.70
10	O	282	CYS	C-N-CA	16.56	163.10	121.70
10	O	381	PRO	CA-C-N	-16.40	81.13	117.20
10	O	289	GLU	CA-C-N	-13.96	86.49	117.20
10	O	360	GLY	C-N-CA	13.80	156.19	121.70
10	O	289	GLU	C-N-CA	-11.04	94.09	121.70
10	O	48	ALA	C-N-CA	-10.14	96.34	121.70
10	O	174	GLU	O-C-N	-9.86	106.92	122.70
10	O	204	GLN	O-C-N	9.83	138.43	122.70
10	O	254	LEU	O-C-N	-9.62	107.30	122.70
10	O	204	GLN	CA-C-N	-9.19	96.99	117.20
10	O	676	ARG	NE-CZ-NH1	8.62	124.61	120.30
12	Q	26	SER	C-N-CA	-8.55	86.08	122.00
10	O	691	ARG	NE-CZ-NH1	8.36	124.48	120.30
10	O	289	GLU	O-C-N	8.31	136.00	122.70
10	O	256	PRO	C-N-CA	-8.10	101.46	121.70
5	E	273	LEU	CA-CB-CG	-7.90	97.12	115.30
12	Q	26	SER	CA-C-N	-7.90	94.98	117.10
2	B	414	GLN	C-N-CA	-7.76	102.30	121.70
6	F	43	LEU	C-N-CA	7.60	140.71	121.70
10	O	678	MET	CG-SD-CE	-7.24	88.61	100.20
7	G	164	LYS	O-C-N	-7.22	111.15	122.70
10	O	360	GLY	CA-C-N	7.12	132.86	117.20
10	O	691	ARG	NE-CZ-NH2	-7.06	116.77	120.30
12	Q	4	ASP	C-N-CA	7.01	139.24	121.70
10	O	174	GLU	CA-C-N	-6.84	102.15	117.20
10	O	391	LEU	CA-CB-CG	6.37	129.94	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	202	LEU	CA-CB-CG	6.30	129.79	115.30
10	O	665	MET	CG-SD-CE	-6.29	90.14	100.20
10	O	686	ARG	NE-CZ-NH2	-6.28	117.16	120.30
2	B	28	PRO	N-CA-CB	5.97	110.46	103.30
7	G	99	LEU	CA-CB-CG	5.91	128.88	115.30
5	E	63	LEU	CA-CB-CG	5.88	128.81	115.30
7	G	167	LEU	CA-CB-CG	5.87	128.80	115.30
1	A	331	LEU	CA-CB-CG	-5.71	102.16	115.30
10	O	174	GLU	C-N-CA	-5.65	107.57	121.70
10	O	686	ARG	NE-CZ-NH1	5.31	122.95	120.30
5	E	63	LEU	CB-CG-CD2	-5.25	102.08	111.00
3	C	103	LEU	CA-CB-CG	-5.25	103.24	115.30
10	O	204	GLN	C-N-CA	-5.22	108.66	121.70
4	D	6	ARG	NE-CZ-NH1	5.17	122.89	120.30
4	D	242	ARG	NE-CZ-NH2	-5.13	117.73	120.30
12	Q	20	ARG	NE-CZ-NH2	-5.11	117.75	120.30
7	G	164	LYS	CA-C-N	5.07	128.34	117.20
10	O	686	ARG	N-CA-CB	5.06	119.71	110.60

There are no chirality outliers.

All (49) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	LEU	Peptide
1	A	267	ILE	Peptide
1	A	337	PHE	Peptide
1	A	372	SER	Peptide
1	A	453	VAL	Peptide
1	A	460	LEU	Peptide
2	B	83	THR	Peptide
3	C	171	LYS	Peptide
3	C	369	ASN	Peptide
3	C	92	HIS	Peptide
4	D	290	LYS	Peptide
4	D	315	LEU	Peptide
4	D	352	ILE	Peptide
5	E	117	MET	Peptide
5	E	77	VAL	Peptide
6	F	250	VAL	Peptide
6	F	267	LEU	Peptide
6	F	294	THR	Mainchain
7	G	164	LYS	Peptide

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Mol	Chain	Res	Type	Group
7	G	165	LYS	Peptide
10	O	174	GLU	Mainchain
10	O	204	GLN	Mainchain
10	O	254	LEU	Mainchain
10	O	256	PRO	Mainchain
10	O	26	MET	Mainchain
10	O	274	HIS	Mainchain
10	O	289	GLU	Mainchain
10	O	360	GLY	Mainchain,Peptide
10	O	381	PRO	Mainchain
10	O	382	LYS	Peptide
10	O	409	ASN	Peptide
10	O	429	ASP	Peptide
10	O	505	ILE	Peptide
10	O	506	SER	Peptide
10	O	567	ASN	Peptide
10	O	669	ARG	Sidechain
11	P	8	ARG	Peptide
11	P	80	ARG	Peptide
12	Q	34	GLU	Peptide
12	Q	37	PHE	Peptide
12	Q	4	ASP	Mainchain,Peptide
12	Q	60	TYR	Sidechain
12	Q	63	TYR	Sidechain
13	R	20	LYS	Peptide
13	R	46	ARG	Peptide
13	R	56	CYS	Peptide
13	R	96	LEU	Peptide

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3382	0	3394	895	0
2	B	3429	0	3396	954	0
3	C	3183	0	3201	886	0
4	D	3290	2959	3301	434	0
5	E	2366	0	2334	957	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	F	2236	0	2211	1106	0
7	G	1678	0	1709	625	0
8	H	1379	0	1361	459	0
9	N	609	0	632	404	0
10	O	6085	308	6016	2453	0
11	P	831	0	825	418	0
12	Q	795	782	764	437	0
13	R	686	0	651	384	0
14	E	1	0	0	0	0
14	R	3	0	0	0	0
15	A	9	0	0	10	0
15	P	144	0	0	95	0
15	Q	16	0	0	19	0
All	All	30122	4049	29795	8756	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 147.

All (8756) 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)
4:D:404:MET:SD	6:F:161:THR:HG21	1.26	1.67
11:P:34:ILE:HG12	12:Q:5:PHE:CE2	1.18	1.67
10:O:211:PHE:CE2	10:O:262:VAL:HG11	1.30	1.66
2:B:443:ALA:HB1	3:C:244:TYR:CD2	1.24	1.64
10:O:211:PHE:CE2	10:O:259:TYR:HD2	1.14	1.63
10:O:212:LEU:CA	10:O:262:VAL:HG23	1.19	1.60
10:O:10:PHE:CD2	10:O:56:ARG:CG	1.77	1.60
5:E:113:ALA:HB2	9:N:128:GLU:CG	1.23	1.59
10:O:506:SER:CB	13:R:29:ALA:HB2	1.22	1.59
5:E:113:ALA:CB	9:N:128:GLU:HG2	1.24	1.59
12:Q:46:LEU:HD12	12:Q:54:LEU:CD2	1.10	1.58
10:O:222:GLU:HG2	10:O:242:ARG:CD	1.21	1.57
2:B:28:PRO:CB	10:O:648:ARG:CG	1.81	1.57
12:Q:46:LEU:CD1	12:Q:54:LEU:HD22	1.34	1.57
12:Q:86:MET:SD	12:Q:90:LEU:HD22	1.43	1.57
5:E:107:VAL:CG1	9:N:120:THR:HG22	1.35	1.57
2:B:443:ALA:HB1	3:C:244:TYR:CG	1.35	1.56
10:O:344:LEU:HD21	10:O:421:VAL:CG2	1.31	1.56
5:E:315:ILE:CG2	8:H:207:LEU:HD11	1.14	1.56
10:O:14:TRP:CD1	10:O:60:GLU:HA	1.06	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:211:PHE:CD2	10:O:262:VAL:CG1	1.88	1.56
10:O:339:PHE:CE2	10:O:387:ALA:N	1.70	1.56
10:O:612:LYS:HG2	10:O:657:MET:SD	1.45	1.56
3:C:403:PHE:CZ	6:F:311:VAL:CG1	1.89	1.55
4:D:317:ASN:CA	4:D:361:PHE:HB3	1.27	1.55
10:O:692:LYS:HD2	10:O:743:TYR:CB	1.33	1.55
10:O:250:CYS:SG	10:O:259:TYR:HE2	1.26	1.55
6:F:240:GLU:CA	6:F:243:LYS:HE2	1.21	1.55
11:P:34:ILE:HG23	12:Q:5:PHE:CD2	1.40	1.54
7:G:188:ILE:CG2	8:H:197:LEU:HD22	1.36	1.54
10:O:506:SER:HB3	13:R:29:ALA:CB	1.37	1.54
2:B:105:ARG:NH1	10:O:401:LYS:CD	1.67	1.54
10:O:47:VAL:HG22	10:O:49:TYR:CD1	1.38	1.54
10:O:354:ILE:CD1	10:O:368:LEU:HD22	1.30	1.54
2:B:28:PRO:CB	10:O:648:ARG:CD	1.81	1.53
4:D:317:ASN:HA	4:D:361:PHE:CB	1.31	1.53
10:O:312:ILE:HG13	10:O:364:PHE:CE1	1.42	1.53
5:E:246:TRP:CZ2	6:F:231:LEU:HB3	1.40	1.53
3:C:398:THR:HG22	7:G:213:VAL:CG1	1.31	1.52
12:Q:1:MET:SD	12:Q:40:SER:HB2	1.46	1.52
6:F:257:LEU:CD2	7:G:174:LEU:HD11	1.07	1.52
10:O:148:ARG:NH1	10:O:194:TYR:CE1	1.74	1.52
4:D:316:TYR:HE1	7:G:145:LEU:CG	1.18	1.52
7:G:188:ILE:CG1	8:H:197:LEU:HD11	1.05	1.52
10:O:10:PHE:CB	10:O:56:ARG:NE	1.70	1.51
10:O:6:ARG:CD	10:O:52:PRO:CG	1.82	1.51
10:O:46:CYS:SG	10:O:57:LEU:HD21	1.51	1.51
4:D:316:TYR:CE1	7:G:145:LEU:HG	1.45	1.51
10:O:16:LYS:HD2	10:O:41:ASP:CB	1.35	1.51
11:P:4:PHE:CZ	12:Q:66:LYS:HE2	1.43	1.50
6:F:257:LEU:CD2	7:G:174:LEU:CD1	1.87	1.50
10:O:20:THR:CB	10:O:38:ARG:HE	1.23	1.49
11:P:93:PHE:CD1	12:Q:51:SER:HB3	1.44	1.49
5:E:304:THR:HG21	6:F:300:ASN:CB	1.39	1.48
10:O:20:THR:HB	10:O:38:ARG:NE	1.19	1.48
3:C:403:PHE:CZ	6:F:311:VAL:HG13	1.42	1.48
12:Q:46:LEU:CD1	12:Q:49:PHE:CB	1.90	1.48
10:O:16:LYS:CD	10:O:41:ASP:HB2	1.39	1.48
12:Q:7:THR:CG2	12:Q:43:ARG:HH21	1.25	1.47
2:B:28:PRO:CB	10:O:648:ARG:HD2	1.38	1.47
10:O:211:PHE:CD2	10:O:262:VAL:HG11	0.96	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:9:VAL:HG21	12:Q:45:GLU:CG	1.26	1.47
10:O:24:VAL:HG11	10:O:30:VAL:CG1	1.41	1.47
10:O:6:ARG:HB2	10:O:52:PRO:CD	1.42	1.46
10:O:692:LYS:NZ	10:O:743:TYR:CD2	1.82	1.46
10:O:14:TRP:CD1	10:O:60:GLU:CA	1.98	1.46
10:O:46:CYS:SG	10:O:57:LEU:CD2	2.02	1.46
5:E:246:TRP:CB	6:F:224:GLN:O	1.64	1.45
12:Q:9:VAL:CG1	12:Q:45:GLU:CD	1.85	1.45
2:B:414:GLN:C	2:B:415:LYS:N	1.67	1.45
7:G:188:ILE:HG23	8:H:197:LEU:CD2	1.40	1.45
10:O:211:PHE:CE2	10:O:259:TYR:CD2	2.04	1.45
11:P:4:PHE:HZ	12:Q:66:LYS:CE	1.27	1.45
2:B:19:GLU:CB	10:O:652:LYS:HG3	1.43	1.45
10:O:10:PHE:CD2	10:O:56:ARG:HG2	0.94	1.45
3:C:398:THR:CG2	7:G:213:VAL:HG11	1.45	1.45
5:E:78:MET:SD	9:N:125:ARG:HA	1.53	1.45
10:O:151:MET:CE	10:O:191:VAL:HG21	1.43	1.44
11:P:34:ILE:CG1	12:Q:5:PHE:CE2	1.99	1.44
11:P:93:PHE:HB3	12:Q:52:HIS:N	1.13	1.44
1:A:468:ARG:NH2	6:F:281:ASP:HA	1.32	1.44
6:F:240:GLU:C	6:F:243:LYS:HE2	1.36	1.44
10:O:24:VAL:CG1	10:O:30:VAL:HG12	1.45	1.44
10:O:250:CYS:SG	10:O:259:TYR:CE2	2.09	1.44
12:Q:6:VAL:HG11	12:Q:29:LEU:CD1	1.44	1.44
7:G:188:ILE:CG2	8:H:197:LEU:CD2	1.90	1.44
10:O:211:PHE:CD2	10:O:259:TYR:HB2	1.51	1.44
10:O:282:CYS:C	10:O:283:HIS:N	1.69	1.44
11:P:70:GLN:NE2	12:Q:78:PRO:HG2	1.25	1.43
12:Q:6:VAL:CG1	12:Q:29:LEU:HD12	1.48	1.43
5:E:304:THR:CG2	6:F:300:ASN:HB2	1.48	1.43
10:O:676:ARG:CD	10:O:710:ARG:HH21	1.29	1.43
12:Q:46:LEU:CD1	12:Q:49:PHE:HB2	0.95	1.43
2:B:14:GLU:O	2:B:18:LEU:CB	1.65	1.42
5:E:242:TRP:CE2	6:F:222:ILE:O	1.72	1.42
10:O:568:TYR:CB	13:R:18:LYS:HA	1.39	1.42
12:Q:86:MET:CE	12:Q:87:SER:HA	1.45	1.42
9:N:142:ARG:HH12	10:O:689:LYS:CG	1.29	1.42
9:N:173:LEU:CD1	10:O:695:ARG:CG	1.95	1.42
10:O:552:LYS:N	13:R:32:LEU:HD12	1.25	1.42
6:F:258:ARG:NH1	7:G:159:GLY:HA3	1.21	1.41
2:B:438:VAL:HG12	6:F:302:MET:SD	1.58	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:227:LEU:HD13	10:O:235:TYR:CD1	1.54	1.41
10:O:657:MET:HB3	10:O:659:LYS:NZ	1.32	1.41
11:P:93:PHE:CA	12:Q:51:SER:HB2	1.50	1.41
12:Q:6:VAL:HA	12:Q:41:LYS:NZ	1.14	1.41
2:B:443:ALA:CB	3:C:244:TYR:CD2	2.03	1.40
4:D:318:ASN:CG	4:D:361:PHE:HE1	1.22	1.40
5:E:255:LEU:HD13	6:F:282:GLN:NE2	1.28	1.40
7:G:195:ALA:CB	8:H:201:THR:HG23	1.49	1.40
2:B:143:LYS:CE	10:O:408:GLU:O	1.69	1.40
9:N:173:LEU:HD12	10:O:695:ARG:CG	1.48	1.40
10:O:6:ARG:HD2	10:O:52:PRO:CG	0.93	1.40
12:Q:15:GLU:HG2	12:Q:45:GLU:CD	1.39	1.39
4:D:317:ASN:ND2	7:G:145:LEU:N	1.67	1.39
10:O:339:PHE:HE2	10:O:387:ALA:CA	1.34	1.38
4:D:377:LEU:CD1	6:F:263:LEU:HD13	1.51	1.38
7:G:188:ILE:HG12	8:H:197:LEU:CD1	0.90	1.38
10:O:182:HIS:ND1	10:O:254:LEU:HD21	1.32	1.38
10:O:148:ARG:NH1	10:O:194:TYR:CD1	1.78	1.38
10:O:222:GLU:CG	10:O:242:ARG:CD	2.02	1.37
10:O:379:ARG:CZ	10:O:384:VAL:HG13	1.52	1.37
5:E:319:MET:CE	8:H:207:LEU:HD12	1.52	1.37
10:O:259:TYR:C	10:O:262:VAL:HG12	1.42	1.37
10:O:312:ILE:CG1	10:O:364:PHE:CE1	2.08	1.37
4:D:318:ASN:CG	4:D:361:PHE:CE1	1.96	1.36
6:F:240:GLU:CA	6:F:243:LYS:CE	2.04	1.36
10:O:265:GLU:O	10:O:266:CYS:N	1.58	1.36
10:O:347:HIS:NE2	10:O:420:THR:HG21	1.33	1.36
2:B:438:VAL:HG21	6:F:299:CYS:SG	1.64	1.36
6:F:215:SER:CB	7:G:200:GLU:OE2	1.72	1.36
10:O:10:PHE:CD1	10:O:53:LEU:O	1.77	1.36
9:N:169:LEU:O	10:O:691:ARG:CB	1.70	1.36
4:D:404:MET:SD	6:F:161:THR:CG2	2.14	1.35
12:Q:15:GLU:HG2	12:Q:45:GLU:OE1	1.25	1.35
6:F:257:LEU:HD21	7:G:174:LEU:CD1	1.46	1.35
5:E:107:VAL:C	9:N:122:LYS:HG3	1.44	1.34
10:O:10:PHE:CG	10:O:56:ARG:CG	2.08	1.34
10:O:6:ARG:CD	10:O:52:PRO:CD	2.04	1.34
12:Q:86:MET:CE	12:Q:87:SER:O	1.74	1.34
10:O:283:HIS:NE2	10:O:314:GLU:O	1.59	1.33
5:E:307:SER:OG	6:F:296:THR:CG2	1.74	1.33
6:F:260:ALA:CB	7:G:174:LEU:HD11	1.58	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:265:GLU:C	10:O:266:CYS:N	1.80	1.33
10:O:286:ILE:HG21	10:O:315:LEU:CA	1.58	1.33
10:O:6:ARG:CB	10:O:52:PRO:CD	2.01	1.33
10:O:10:PHE:CG	10:O:56:ARG:HG2	1.60	1.33
11:P:70:GLN:HE22	12:Q:78:PRO:CG	1.42	1.32
12:Q:9:VAL:CG1	12:Q:45:GLU:OE2	1.74	1.32
6:F:205:ARG:NH2	6:F:219:GLU:HG2	1.36	1.32
10:O:379:ARG:NE	10:O:384:VAL:CG1	1.75	1.32
11:P:35:LEU:CD2	12:Q:43:ARG:CG	2.06	1.32
12:Q:46:LEU:HD13	12:Q:49:PHE:CB	1.49	1.32
2:B:427:TRP:CD1	5:E:270:SER:HB2	1.65	1.32
10:O:103:CYS:SG	12:Q:31:ALA:HB1	1.69	1.32
10:O:212:LEU:HA	10:O:262:VAL:CG2	1.58	1.32
10:O:339:PHE:HE2	10:O:387:ALA:N	0.86	1.32
5:E:246:TRP:CE3	6:F:228:ILE:CG1	2.06	1.32
6:F:246:GLU:CG	7:G:167:LEU:HD23	1.57	1.32
7:G:203:LEU:HD11	8:H:209:ASN:CB	1.57	1.32
11:P:70:GLN:NE2	12:Q:78:PRO:CG	1.92	1.32
2:B:297:GLN:HE21	13:R:67:GLU:CD	1.30	1.31
5:E:318:LEU:HD22	6:F:286:VAL:CB	1.59	1.31
6:F:257:LEU:CD2	6:F:260:ALA:HB3	1.60	1.31
10:O:10:PHE:CG	10:O:56:ARG:CB	1.97	1.31
10:O:220:LYS:HE2	10:O:274:HIS:NE2	1.45	1.31
6:F:240:GLU:O	6:F:243:LYS:CE	1.79	1.31
10:O:211:PHE:CE2	10:O:262:VAL:CG1	2.05	1.31
10:O:339:PHE:CE2	10:O:387:ALA:CA	2.09	1.31
2:B:438:VAL:CG1	6:F:302:MET:SD	2.17	1.30
10:O:676:ARG:NE	10:O:710:ARG:HH21	1.25	1.30
9:N:108:LEU:HD11	10:O:687:ILE:CG2	1.59	1.30
2:B:143:LYS:HE3	10:O:408:GLU:O	1.13	1.30
12:Q:6:VAL:CA	12:Q:41:LYS:HZ1	1.44	1.30
12:Q:86:MET:SD	12:Q:90:LEU:CD2	2.18	1.30
11:P:93:PHE:CB	12:Q:52:HIS:N	1.94	1.30
12:Q:9:VAL:CG2	12:Q:45:GLU:CG	1.93	1.30
12:Q:70:VAL:HG11	15:Q:106:HOH:O	1.14	1.30
4:D:317:ASN:HD21	7:G:144:LYS:CB	1.44	1.30
5:E:315:ILE:HG22	8:H:207:LEU:CD1	1.62	1.30
10:O:14:TRP:HD1	10:O:60:GLU:CA	1.36	1.30
4:D:317:ASN:C	4:D:361:PHE:CD1	2.05	1.29
5:E:319:MET:HE3	8:H:207:LEU:CD1	1.60	1.29
10:O:687:ILE:HD11	10:O:706:GLN:NE2	1.45	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:240:GLU:C	6:F:243:LYS:CE	1.98	1.29
10:O:10:PHE:HB3	10:O:56:ARG:CD	1.61	1.29
5:E:246:TRP:CE3	6:F:228:ILE:HG12	1.63	1.29
11:P:15:PHE:CE2	12:Q:16:TYR:HB3	1.56	1.29
11:P:69:PRO:CA	12:Q:59:GLU:OE2	1.69	1.29
10:O:250:CYS:HB3	10:O:259:TYR:OH	1.28	1.28
5:E:315:ILE:CG2	8:H:207:LEU:CD1	2.08	1.28
10:O:688:MET:CE	10:O:725:LEU:HB3	1.64	1.28
11:P:4:PHE:CZ	12:Q:66:LYS:CE	2.07	1.28
6:F:115:VAL:HG13	9:N:132:GLU:CA	1.63	1.28
5:E:325:ASP:OD1	6:F:275:PHE:CE2	1.86	1.28
10:O:687:ILE:CD1	10:O:706:GLN:HE22	1.45	1.28
4:D:317:ASN:CA	4:D:361:PHE:CB	1.94	1.28
5:E:318:LEU:CD2	6:F:286:VAL:HB	1.64	1.28
10:O:16:LYS:HB3	10:O:41:ASP:CB	1.63	1.28
5:E:314:ALA:HB3	6:F:289:MET:CE	1.64	1.27
10:O:38:ARG:NH2	10:O:101:MET:HG2	1.49	1.27
10:O:676:ARG:NE	10:O:710:ARG:NH2	1.81	1.27
9:N:142:ARG:NE	10:O:743:TYR:CE2	2.02	1.27
4:D:316:TYR:CE1	7:G:145:LEU:CG	2.04	1.27
4:D:318:ASN:ND2	4:D:361:PHE:CE1	2.01	1.27
10:O:354:ILE:CD1	10:O:368:LEU:CD2	2.11	1.27
10:O:657:MET:CB	10:O:659:LYS:HZ2	1.47	1.27
10:O:688:MET:SD	10:O:731:ILE:CG2	2.21	1.27
5:E:315:ILE:CD1	8:H:207:LEU:HD21	1.64	1.27
10:O:35:TRP:HB3	10:O:104:LEU:CD1	1.63	1.27
10:O:47:VAL:HG22	10:O:49:TYR:CE1	1.67	1.27
10:O:222:GLU:OE2	10:O:242:ARG:CZ	1.82	1.27
5:E:106:ARG:NH1	9:N:124:GLU:O	1.65	1.27
6:F:114:GLN:HG3	9:N:133:LYS:C	1.44	1.27
12:Q:9:VAL:HG13	12:Q:45:GLU:OE1	1.23	1.27
12:Q:66:LYS:HB2	15:Q:114:HOH:O	1.22	1.27
10:O:551:ARG:CB	13:R:32:LEU:HD13	1.64	1.26
10:O:692:LYS:HD2	10:O:743:TYR:CG	1.70	1.26
10:O:551:ARG:HB3	13:R:32:LEU:CB	1.63	1.26
10:O:660:ASP:O	10:O:661:THR:N	1.69	1.26
11:P:93:PHE:HD1	12:Q:51:SER:CB	1.48	1.26
12:Q:86:MET:CE	12:Q:87:SER:CA	2.13	1.26
4:D:317:ASN:ND2	7:G:144:LYS:CB	1.98	1.26
7:G:196:ASN:HD21	8:H:204:VAL:CG2	1.17	1.26
4:D:377:LEU:CD1	6:F:263:LEU:CD1	2.11	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:318:ASN:ND2	4:D:361:PHE:HE1	1.32	1.26
5:E:242:TRP:CZ2	6:F:225:HIS:N	2.02	1.26
10:O:568:TYR:OH	13:R:21:ARG:HD3	1.34	1.26
10:O:212:LEU:N	10:O:262:VAL:HG23	1.49	1.25
10:O:301:LEU:HD13	10:O:307:GLY:CA	1.65	1.25
12:Q:41:LYS:HE2	12:Q:43:ARG:C	1.30	1.25
4:D:373:GLN:NE2	7:G:155:ASP:O	1.69	1.25
4:D:377:LEU:HD11	6:F:263:LEU:CD1	1.64	1.25
10:O:259:TYR:O	10:O:262:VAL:HG12	1.21	1.25
10:O:288:GLN:O	10:O:290:LYS:NZ	1.68	1.25
10:O:567:ASN:CB	13:R:21:ARG:H	1.49	1.25
3:C:403:PHE:CE2	6:F:311:VAL:CG1	2.19	1.25
12:Q:9:VAL:CG2	12:Q:45:GLU:CD	2.04	1.25
12:Q:15:GLU:OE2	12:Q:45:GLU:HG2	1.27	1.25
4:D:317:ASN:HB3	4:D:361:PHE:CG	1.68	1.25
6:F:117:LYS:HZ2	9:N:137:PRO:CG	1.48	1.25
6:F:205:ARG:NH2	6:F:219:GLU:CG	1.98	1.25
2:B:427:TRP:CD2	5:E:266:VAL:HG13	1.71	1.25
6:F:215:SER:HB2	7:G:200:GLU:OE2	1.13	1.25
6:F:246:GLU:HG2	7:G:167:LEU:CD2	1.65	1.25
10:O:14:TRP:CD1	10:O:63:ILE:HD12	1.65	1.25
10:O:250:CYS:HB3	10:O:259:TYR:CZ	1.70	1.25
10:O:337:THR:O	10:O:341:GLU:HB2	1.35	1.25
2:B:427:TRP:NE1	5:E:270:SER:HB2	1.51	1.24
10:O:289:GLU:O	10:O:290:LYS:CG	1.84	1.24
10:O:354:ILE:HD12	10:O:368:LEU:CD2	1.65	1.24
9:N:144:ILE:HD13	10:O:690:ALA:CA	1.68	1.24
10:O:301:LEU:CD1	10:O:307:GLY:HA3	1.65	1.24
10:O:271:VAL:HB	10:O:304:VAL:CG2	1.68	1.24
12:Q:7:THR:CG2	12:Q:43:ARG:NH2	1.97	1.24
10:O:182:HIS:CE1	10:O:254:LEU:HD21	1.72	1.23
10:O:503:LEU:O	13:R:26:LYS:CA	1.84	1.23
11:P:93:PHE:HB3	12:Q:51:SER:C	1.58	1.23
12:Q:1:MET:SD	12:Q:40:SER:CB	2.25	1.23
1:A:425:MET:SD	2:B:404:GLN:NE2	2.07	1.23
10:O:22:LYS:HA	10:O:25:VAL:CG1	1.69	1.23
10:O:727:ASP:HA	13:R:45:CYS:CB	1.49	1.23
11:P:93:PHE:CD1	12:Q:51:SER:CB	2.17	1.23
1:A:76:ASP:O	1:A:77:VAL:O	1.52	1.23
2:B:24:SER:C	10:O:652:LYS:HZ1	1.40	1.23
4:D:317:ASN:C	4:D:361:PHE:HB3	1.44	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:118:LEU:CD2	10:O:195:LYS:HD2	1.67	1.23
2:B:297:GLN:NE2	13:R:67:GLU:CG	2.01	1.22
9:N:170:VAL:O	10:O:692:LYS:HG2	1.05	1.22
10:O:17:LEU:CD2	10:O:64:PHE:H	1.22	1.22
10:O:259:TYR:O	10:O:262:VAL:CG1	1.87	1.22
10:O:286:ILE:CG2	10:O:315:LEU:HA	1.69	1.22
10:O:381:PRO:HB2	10:O:383:SER:N	1.54	1.22
10:O:688:MET:SD	10:O:731:ILE:HG21	1.78	1.22
10:O:727:ASP:CA	13:R:45:CYS:HB2	1.66	1.22
5:E:114:TYR:HB2	9:N:129:ARG:NH1	1.52	1.21
10:O:211:PHE:CE1	10:O:253:TYR:OH	1.88	1.21
5:E:307:SER:OG	6:F:296:THR:HG21	1.07	1.21
6:F:257:LEU:HD23	6:F:260:ALA:CB	1.70	1.21
10:O:341:GLU:O	10:O:345:GLU:HB2	1.39	1.21
10:O:568:TYR:CB	13:R:18:LYS:CA	2.11	1.21
10:O:17:LEU:HD21	10:O:64:PHE:N	1.41	1.21
10:O:212:LEU:CA	10:O:262:VAL:CG2	2.14	1.21
10:O:551:ARG:O	13:R:33:TRP:CZ2	1.93	1.21
1:A:76:ASP:O	1:A:77:VAL:C	1.69	1.21
12:Q:6:VAL:CA	12:Q:41:LYS:NZ	1.99	1.21
6:F:260:ALA:CB	7:G:174:LEU:CD1	2.18	1.21
10:O:585:LEU:HD11	13:R:22:PHE:CE2	1.74	1.21
1:A:482:PHE:CE1	2:B:435:ASN:ND2	2.08	1.20
2:B:28:PRO:CB	10:O:648:ARG:HG3	1.49	1.20
10:O:6:ARG:CD	10:O:52:PRO:HG3	1.47	1.20
2:B:28:PRO:O	10:O:648:ARG:NH1	1.72	1.20
2:B:232:LEU:HD13	10:O:478:THR:CG2	1.69	1.20
6:F:293:GLY:C	6:F:294:THR:N	1.93	1.20
5:E:322:VAL:HG13	6:F:279:PHE:HZ	1.04	1.20
2:B:106:ASN:ND2	10:O:401:LYS:HZ1	1.38	1.20
6:F:114:GLN:O	9:N:131:GLU:HG2	1.41	1.20
6:F:205:ARG:HH22	6:F:219:GLU:CG	1.51	1.20
9:N:173:LEU:CD1	10:O:695:ARG:HG3	1.59	1.20
4:D:317:ASN:HD21	7:G:144:LYS:CA	1.55	1.20
5:E:242:TRP:NE1	6:F:222:ILE:O	1.75	1.19
6:F:205:ARG:CZ	6:F:219:GLU:HG2	1.72	1.19
6:F:267:LEU:CD2	7:G:177:TRP:CH2	2.24	1.19
10:O:339:PHE:CE2	10:O:387:ALA:CB	2.25	1.19
10:O:551:ARG:HB3	13:R:32:LEU:CD1	1.72	1.19
11:P:96:PRO:HD3	12:Q:52:HIS:HE1	1.06	1.19
6:F:115:VAL:CG1	9:N:132:GLU:CB	2.20	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:108:LEU:CD1	10:O:687:ILE:HG23	1.71	1.19
12:Q:3:GLN:HA	15:Q:103:HOH:O	1.40	1.19
2:B:28:PRO:O	2:B:31:ASP:OD1	1.57	1.19
2:B:143:LYS:HE3	10:O:408:GLU:C	1.63	1.19
5:E:116:TYR:N	9:N:132:GLU:HG3	1.54	1.19
10:O:212:LEU:N	10:O:262:VAL:CG2	2.04	1.19
6:F:240:GLU:HA	6:F:243:LYS:CE	1.63	1.19
2:B:427:TRP:CE3	5:E:266:VAL:HG13	1.78	1.18
11:P:93:PHE:CE2	12:Q:55:GLU:OE1	1.96	1.18
4:D:362:GLU:C	4:D:364:ARG:HG2	1.64	1.18
5:E:78:MET:SD	9:N:125:ARG:CA	2.14	1.18
6:F:114:GLN:CB	9:N:132:GLU:C	2.11	1.18
10:O:339:PHE:CE2	10:O:387:ALA:HB2	1.77	1.18
4:D:370:TRP:CH2	6:F:275:PHE:CD1	2.32	1.18
10:O:14:TRP:CD1	10:O:63:ILE:CD1	2.23	1.18
1:A:468:ARG:HH22	6:F:281:ASP:CA	1.55	1.18
4:D:317:ASN:HD21	7:G:144:LYS:C	1.47	1.18
10:O:6:ARG:CD	10:O:52:PRO:HD3	1.64	1.18
2:B:31:ASP:OD1	10:O:648:ARG:NH1	1.76	1.18
5:E:322:VAL:HG13	6:F:279:PHE:CZ	1.78	1.18
10:O:148:ARG:CZ	10:O:194:TYR:HE1	1.55	1.18
10:O:551:ARG:CA	13:R:32:LEU:HD13	1.72	1.18
4:D:317:ASN:HD22	7:G:145:LEU:N	1.25	1.17
6:F:257:LEU:CD2	6:F:260:ALA:CB	2.22	1.17
10:O:268:GLN:O	10:O:272:ALA:HB3	1.40	1.17
2:B:105:ARG:NH1	10:O:401:LYS:HD3	0.86	1.17
10:O:10:PHE:HD1	10:O:53:LEU:O	0.85	1.17
10:O:16:LYS:HB3	10:O:41:ASP:CG	1.64	1.17
10:O:202:PHE:CB	10:O:206:ILE:HD12	1.72	1.17
11:P:34:ILE:CG2	12:Q:5:PHE:CD2	2.27	1.17
5:E:304:THR:CB	6:F:300:ASN:HB2	1.73	1.17
9:N:144:ILE:CD1	10:O:690:ALA:HA	1.75	1.17
10:O:551:ARG:C	13:R:32:LEU:HD12	1.63	1.17
5:E:243:ASN:CA	6:F:226:SER:O	1.93	1.17
6:F:257:LEU:O	6:F:260:ALA:N	1.77	1.17
12:Q:6:VAL:HB	12:Q:29:LEU:HD11	1.24	1.17
12:Q:6:VAL:CB	12:Q:29:LEU:HD11	1.74	1.17
5:E:107:VAL:HG11	9:N:120:THR:CG2	1.75	1.16
4:D:317:ASN:HB3	4:D:361:PHE:CD1	1.78	1.16
10:O:182:HIS:ND1	10:O:254:LEU:CD2	2.08	1.16
10:O:298:TYR:HA	10:O:308:LEU:HD21	1.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:103:CYS:HB3	12:Q:32:MET:HA	1.23	1.16
10:O:503:LEU:O	13:R:26:LYS:HA	0.99	1.16
10:O:567:ASN:CB	13:R:22:PHE:H	1.58	1.16
10:O:567:ASN:HB2	13:R:21:ARG:H	1.03	1.16
5:E:107:VAL:CG1	9:N:120:THR:CG2	2.23	1.16
5:E:246:TRP:HZ2	6:F:231:LEU:CB	1.57	1.16
12:Q:26:SER:C	12:Q:27:PRO:N	1.84	1.16
5:E:243:ASN:HA	6:F:226:SER:O	1.01	1.16
5:E:255:LEU:HD13	6:F:282:GLN:CD	1.65	1.16
10:O:10:PHE:HB3	10:O:56:ARG:NE	0.84	1.16
12:Q:6:VAL:CG1	12:Q:29:LEU:CD1	2.11	1.16
2:B:19:GLU:HA	10:O:652:LYS:HE3	1.26	1.15
10:O:6:ARG:HD2	10:O:52:PRO:HG2	1.16	1.15
11:P:96:PRO:HD3	12:Q:52:HIS:CE1	1.81	1.15
5:E:107:VAL:O	9:N:122:LYS:HG3	1.40	1.15
5:E:246:TRP:CZ2	6:F:231:LEU:CB	2.30	1.15
10:O:551:ARG:CA	13:R:32:LEU:CD1	2.23	1.15
10:O:45:LEU:HD22	10:O:57:LEU:HA	1.20	1.15
10:O:289:GLU:O	10:O:290:LYS:HG3	1.41	1.15
4:D:317:ASN:CG	7:G:144:LYS:HB3	1.67	1.15
12:Q:86:MET:CA	12:Q:87:SER:N	2.09	1.15
5:E:107:VAL:HG12	9:N:120:THR:HG22	1.25	1.15
9:N:173:LEU:HD11	10:O:695:ARG:CG	1.76	1.15
10:O:7:VAL:HA	10:O:52:PRO:HB2	1.15	1.15
2:B:31:ASP:CG	10:O:648:ARG:NH1	2.01	1.14
4:D:317:ASN:ND2	7:G:144:LYS:HB3	1.59	1.14
5:E:246:TRP:HB2	6:F:224:GLN:O	1.26	1.14
9:N:170:VAL:HG21	10:O:687:ILE:O	1.47	1.14
10:O:511:VAL:CG2	13:R:32:LEU:O	1.95	1.14
5:E:246:TRP:HB3	6:F:224:GLN:O	1.39	1.14
10:O:10:PHE:HB3	10:O:56:ARG:CZ	1.77	1.14
10:O:188:PHE:CD2	10:O:207:PHE:HB2	1.82	1.14
10:O:381:PRO:O	10:O:382:LYS:HE2	1.46	1.14
5:E:243:ASN:HA	6:F:226:SER:C	1.66	1.14
10:O:692:LYS:NZ	10:O:743:TYR:CE2	2.12	1.14
11:P:93:PHE:HA	12:Q:51:SER:CB	1.75	1.14
12:Q:83:PRO:HA	12:Q:84:THR:CG2	1.78	1.14
6:F:240:GLU:O	6:F:243:LYS:HE3	1.48	1.14
10:O:506:SER:HB2	13:R:29:ALA:HB2	1.28	1.14
4:D:370:TRP:CH2	6:F:275:PHE:CG	2.35	1.14
6:F:258:ARG:NH1	7:G:159:GLY:CA	2.11	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:142:ARG:NH1	10:O:689:LYS:HG2	1.61	1.14
9:N:142:ARG:CD	10:O:743:TYR:CE2	2.31	1.14
11:P:96:PRO:CD	12:Q:52:HIS:HE1	1.59	1.14
4:D:317:ASN:C	4:D:361:PHE:HD1	1.46	1.13
5:E:106:ARG:CZ	9:N:124:GLU:O	1.97	1.13
7:G:188:ILE:HG21	8:H:197:LEU:HD21	1.22	1.13
9:N:142:ARG:NH1	10:O:689:LYS:CG	2.12	1.13
11:P:34:ILE:CG1	12:Q:5:PHE:HE2	1.42	1.13
12:Q:9:VAL:HG11	12:Q:45:GLU:CD	1.52	1.13
12:Q:86:MET:HE3	12:Q:87:SER:O	1.45	1.13
5:E:318:LEU:HB2	6:F:286:VAL:HG21	1.15	1.13
6:F:114:GLN:HG3	9:N:133:LYS:CA	1.76	1.13
12:Q:9:VAL:CG1	12:Q:45:GLU:OE1	1.86	1.13
4:D:317:ASN:OD1	7:G:144:LYS:CB	1.97	1.13
4:D:362:GLU:CB	4:D:364:ARG:HH12	1.61	1.13
6:F:267:LEU:HD21	7:G:177:TRP:CH2	1.81	1.13
10:O:24:VAL:CG1	10:O:30:VAL:CG1	2.11	1.13
10:O:202:PHE:HB3	10:O:206:ILE:HD12	1.14	1.13
12:Q:7:THR:O	12:Q:44:ILE:HG22	1.45	1.13
4:D:316:TYR:CE1	7:G:145:LEU:CB	2.32	1.13
5:E:244:LYS:HD3	6:F:230:MET:HG3	1.31	1.13
5:E:311:THR:HA	6:F:289:MET:HE2	1.30	1.13
5:E:316:HIS:HE1	8:H:207:LEU:CB	1.60	1.13
10:O:148:ARG:NH2	10:O:194:TYR:HE1	1.47	1.13
10:O:208:GLU:OE2	10:O:261:LYS:HB2	1.45	1.13
10:O:288:GLN:HG3	10:O:290:LYS:HZ1	1.06	1.13
10:O:289:GLU:C	10:O:290:LYS:HG3	1.63	1.13
10:O:336:PRO:CD	10:O:390:LEU:HD22	1.78	1.13
4:D:317:ASN:CB	4:D:361:PHE:CG	2.31	1.12
5:E:312:ILE:HD13	8:H:207:LEU:O	1.49	1.12
9:N:173:LEU:CD1	10:O:695:ARG:HG2	1.65	1.13
10:O:118:LEU:HD21	10:O:195:LYS:HD2	1.27	1.12
10:O:250:CYS:HB3	10:O:259:TYR:CE2	1.84	1.12
10:O:250:CYS:CB	10:O:259:TYR:CE2	2.31	1.12
10:O:344:LEU:CD2	10:O:421:VAL:CG2	2.26	1.12
10:O:379:ARG:NE	10:O:384:VAL:HG13	1.32	1.12
10:O:692:LYS:CD	10:O:743:TYR:CB	2.25	1.12
10:O:10:PHE:N	10:O:56:ARG:HH11	1.46	1.12
4:D:395:TRP:CG	6:F:241:TYR:HE1	1.66	1.12
5:E:318:LEU:HD13	6:F:282:GLN:NE2	1.65	1.12
6:F:114:GLN:HB2	9:N:132:GLU:C	1.70	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:170:SER:HA	6:F:182:LEU:O	1.46	1.12
12:Q:86:MET:HE2	12:Q:87:SER:CA	1.73	1.12
1:A:245:SER:HA	1:A:248:LEU:HB3	1.29	1.12
5:E:246:TRP:HE3	6:F:228:ILE:CG1	1.52	1.12
5:E:314:ALA:HB3	6:F:289:MET:HE1	1.32	1.12
10:O:21:ILE:CG1	10:O:101:MET:HE3	1.79	1.12
10:O:47:VAL:CG2	10:O:49:TYR:CD1	2.33	1.12
10:O:226:LEU:HD11	10:O:242:ARG:HH11	1.12	1.12
10:O:549:SER:C	13:R:33:TRP:HH2	1.52	1.12
5:E:312:ILE:HG12	8:H:207:LEU:CA	1.80	1.11
10:O:612:LYS:CG	10:O:657:MET:SD	2.38	1.11
12:Q:7:THR:HG22	12:Q:43:ARG:NH2	1.57	1.11
10:O:10:PHE:CG	10:O:56:ARG:HB3	1.66	1.11
10:O:312:ILE:CG1	10:O:364:PHE:HE1	1.51	1.11
10:O:688:MET:HE2	10:O:725:LEU:CD1	1.80	1.11
11:P:35:LEU:CD2	12:Q:43:ARG:HG2	1.70	1.11
11:P:35:LEU:HD22	12:Q:43:ARG:CG	1.79	1.11
4:D:365:GLU:N	4:D:369:THR:HG1	1.48	1.11
9:N:169:LEU:C	9:N:170:VAL:HA	1.71	1.11
10:O:189:VAL:HG23	10:O:255:HIS:CE1	1.86	1.11
10:O:286:ILE:HG21	10:O:315:LEU:HA	1.17	1.11
12:Q:7:THR:HG21	12:Q:43:ARG:HE	1.05	1.11
12:Q:17:GLU:HG3	12:Q:43:ARG:NH2	1.62	1.11
5:E:106:ARG:HG3	9:N:124:GLU:CD	1.70	1.11
5:E:316:HIS:HE1	8:H:207:LEU:HB2	1.15	1.11
10:O:16:LYS:NZ	10:O:39:PHE:N	1.98	1.11
10:O:38:ARG:HH22	10:O:101:MET:CE	1.63	1.11
12:Q:17:GLU:HG3	12:Q:43:ARG:HH22	0.95	1.11
12:Q:86:MET:CE	12:Q:87:SER:C	2.18	1.11
1:A:502:VAL:HB	3:C:213:ALA:HA	1.31	1.11
2:B:232:LEU:CD1	10:O:478:THR:HG23	1.79	1.11
4:D:317:ASN:HA	4:D:361:PHE:HB2	1.32	1.11
4:D:370:TRP:HE1	6:F:270:LEU:HB2	1.04	1.11
5:E:116:TYR:HB2	9:N:132:GLU:CB	1.81	1.11
5:E:315:ILE:HG21	8:H:207:LEU:HD11	1.15	1.11
9:N:170:VAL:O	10:O:692:LYS:CG	1.97	1.11
10:O:21:ILE:O	10:O:25:VAL:HG12	1.51	1.11
10:O:347:HIS:NE2	10:O:420:THR:CG2	2.12	1.11
10:O:727:ASP:HA	13:R:45:CYS:HB2	1.13	1.11
7:G:188:ILE:CG1	8:H:197:LEU:CD1	1.80	1.10
10:O:568:TYR:HB3	13:R:18:LYS:CB	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:120:GLY:O	3:C:124:LEU:HB2	1.50	1.10
10:O:222:GLU:CG	10:O:242:ARG:NE	2.13	1.10
10:O:731:ILE:HG13	10:O:743:TYR:HA	1.21	1.10
12:Q:5:PHE:O	12:Q:41:LYS:NZ	1.84	1.10
1:A:74:GLU:CB	1:A:106:HIS:CE1	2.34	1.10
5:E:246:TRP:CH2	6:F:231:LEU:HB3	1.86	1.10
5:E:255:LEU:CD1	6:F:282:GLN:NE2	2.13	1.10
6:F:114:GLN:CG	9:N:133:LYS:C	2.07	1.10
6:F:117:LYS:HZ2	9:N:137:PRO:HG3	1.09	1.10
10:O:202:PHE:O	10:O:206:ILE:HB	1.51	1.10
10:O:688:MET:CE	10:O:725:LEU:HD13	1.80	1.10
12:Q:26:SER:C	12:Q:27:PRO:CD	2.19	1.10
2:B:236:VAL:O	2:B:239:GLU:HB3	1.52	1.10
2:B:297:GLN:NE2	13:R:67:GLU:CD	2.03	1.10
2:B:442:LEU:CD2	6:F:309:PHE:CE2	2.35	1.10
4:D:392:ALA:HB1	4:D:395:TRP:HB2	1.28	1.10
10:O:236:MET:HE3	10:O:300:LEU:HD12	1.34	1.10
10:O:529:ILE:HA	10:O:533:LEU:HD12	1.31	1.10
10:O:612:LYS:HG2	10:O:657:MET:CG	1.80	1.10
2:B:19:GLU:CA	10:O:652:LYS:HG3	1.81	1.09
11:P:35:LEU:HD21	12:Q:43:ARG:HG2	1.20	1.09
2:B:297:GLN:HE21	13:R:67:GLU:CG	1.62	1.09
9:N:169:LEU:C	9:N:171:LEU:N	2.05	1.09
10:O:551:ARG:HB3	13:R:32:LEU:HB3	1.30	1.09
12:Q:46:LEU:CD1	12:Q:54:LEU:CD2	2.07	1.09
9:N:140:GLN:O	9:N:171:LEU:HA	1.51	1.09
9:N:169:LEU:O	10:O:691:ARG:HB3	1.34	1.09
10:O:552:LYS:H	13:R:32:LEU:CD1	1.66	1.09
10:O:692:LYS:HD2	10:O:743:TYR:HB3	1.19	1.09
3:C:189:GLY:HA2	3:C:201:ALA:HB1	1.31	1.09
4:D:317:ASN:CA	4:D:361:PHE:CG	2.35	1.09
6:F:257:LEU:HD23	7:G:174:LEU:CD1	1.61	1.09
10:O:35:TRP:CB	10:O:104:LEU:CD1	2.30	1.09
10:O:47:VAL:CG2	10:O:49:TYR:CE1	2.34	1.09
11:P:69:PRO:HA	12:Q:59:GLU:OE2	1.47	1.09
3:C:403:PHE:CE2	6:F:311:VAL:HG11	1.83	1.09
4:D:370:TRP:CH2	6:F:275:PHE:CE1	2.40	1.09
5:E:107:VAL:HG11	9:N:120:THR:HG22	1.16	1.09
5:E:304:THR:HG21	6:F:300:ASN:HB3	1.23	1.09
9:N:142:ARG:CZ	10:O:743:TYR:CZ	2.36	1.09
10:O:208:GLU:CD	10:O:258:SER:HA	1.70	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:431:LEU:HD13	6:F:292:LEU:HD22	1.34	1.08
5:E:242:TRP:CE2	6:F:222:ILE:C	2.09	1.08
6:F:270:LEU:HD12	6:F:272:THR:OG1	1.51	1.08
12:Q:83:PRO:CA	12:Q:84:THR:CG2	2.31	1.08
2:B:443:ALA:CB	3:C:244:TYR:CG	2.29	1.08
4:D:317:ASN:ND2	7:G:144:LYS:C	2.03	1.08
5:E:114:TYR:HB2	9:N:129:ARG:HH12	1.02	1.08
5:E:312:ILE:HA	8:H:207:LEU:HD22	1.10	1.08
10:O:282:CYS:O	10:O:283:HIS:N	1.85	1.08
10:O:552:LYS:N	13:R:32:LEU:CD1	2.14	1.08
12:Q:86:MET:SD	12:Q:87:SER:HA	1.92	1.08
2:B:19:GLU:CB	10:O:652:LYS:CG	2.31	1.08
10:O:10:PHE:CB	10:O:56:ARG:HB3	1.81	1.08
10:O:375:VAL:HA	10:O:378:TYR:HB2	1.36	1.08
10:O:687:ILE:CD1	10:O:706:GLN:NE2	2.08	1.08
10:O:688:MET:HE1	10:O:725:LEU:CB	1.83	1.08
5:E:319:MET:HE2	8:H:203:TYR:CB	1.82	1.08
6:F:292:LEU:O	6:F:295:ILE:HB	1.53	1.08
7:G:188:ILE:HG12	8:H:197:LEU:HD13	1.36	1.08
11:P:93:PHE:CZ	12:Q:55:GLU:OE1	2.07	1.08
6:F:115:VAL:CG1	9:N:132:GLU:HB3	1.82	1.08
6:F:115:VAL:HG11	9:N:132:GLU:HB3	1.36	1.08
10:O:151:MET:HE3	10:O:191:VAL:HG21	1.28	1.08
10:O:271:VAL:CB	10:O:304:VAL:HG22	1.82	1.08
12:Q:41:LYS:CE	12:Q:43:ARG:C	2.22	1.08
1:A:122:VAL:HG11	1:A:131:TYR:HB2	1.36	1.07
5:E:125:LYS:HG2	5:E:130:LEU:HA	1.36	1.07
10:O:10:PHE:CA	10:O:56:ARG:HE	1.67	1.07
10:O:35:TRP:HB3	10:O:104:LEU:HD13	1.13	1.07
10:O:676:ARG:CD	10:O:710:ARG:NH2	2.14	1.07
12:Q:6:VAL:HG21	12:Q:29:LEU:HG	1.36	1.07
4:D:317:ASN:CG	7:G:144:LYS:CB	2.22	1.07
7:G:188:ILE:HG12	8:H:197:LEU:CG	1.84	1.07
10:O:259:TYR:O	10:O:262:VAL:N	1.87	1.07
10:O:503:LEU:C	13:R:26:LYS:HA	1.74	1.07
10:O:567:ASN:ND2	13:R:22:PHE:CD1	2.23	1.07
12:Q:86:MET:HA	12:Q:87:SER:N	1.39	1.07
4:D:316:TYR:CE1	7:G:145:LEU:HB2	1.88	1.07
4:D:395:TRP:CG	6:F:241:TYR:CE1	2.41	1.07
9:N:173:LEU:HD12	10:O:695:ARG:NE	1.67	1.07
10:O:336:PRO:HD3	10:O:390:LEU:HD22	1.25	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:ASP:N	1:A:106:HIS:HD2	1.51	1.07
3:C:323:ALA:HA	3:C:328:LEU:HD12	1.29	1.07
10:O:203:TYR:OH	10:O:259:TYR:N	1.73	1.07
2:B:424:LEU:HD22	5:E:266:VAL:HG11	1.35	1.07
3:C:28:ILE:HA	3:C:95:TYR:HB2	1.36	1.07
5:E:106:ARG:CG	9:N:124:GLU:CD	2.23	1.07
5:E:312:ILE:HG12	8:H:207:LEU:HA	1.09	1.07
10:O:10:PHE:CB	10:O:56:ARG:CZ	2.31	1.07
11:P:94:SER:O	12:Q:52:HIS:ND1	1.88	1.07
10:O:567:ASN:HB2	13:R:21:ARG:N	1.68	1.06
10:O:657:MET:CB	10:O:659:LYS:NZ	2.11	1.06
10:O:676:ARG:NE	10:O:710:ARG:CZ	2.18	1.06
10:O:676:ARG:CZ	10:O:710:ARG:NH2	2.18	1.06
12:Q:1:MET:CG	12:Q:40:SER:HB2	1.83	1.06
2:B:210:ASN:HB3	2:B:213:LYS:HE2	1.38	1.06
3:C:213:ALA:HB3	3:C:246:SER:HB2	1.36	1.06
3:C:403:PHE:CZ	6:F:311:VAL:HG12	1.90	1.06
4:D:370:TRP:HH2	6:F:275:PHE:CE2	1.71	1.06
5:E:78:MET:HB2	5:E:110:GLN:HA	1.34	1.06
5:E:318:LEU:HD13	6:F:282:GLN:HE21	0.90	1.06
10:O:503:LEU:HG	13:R:26:LYS:N	1.70	1.06
3:C:398:THR:CG2	7:G:213:VAL:CG1	2.17	1.06
9:N:142:ARG:NE	10:O:743:TYR:CD2	2.17	1.06
11:P:35:LEU:HD21	12:Q:43:ARG:HH11	1.19	1.06
12:Q:7:THR:HG22	12:Q:43:ARG:HH21	0.91	1.06
5:E:316:HIS:CE1	8:H:207:LEU:HB2	1.89	1.06
7:G:117:LEU:HA	7:G:122:MET:HB2	1.30	1.06
10:O:301:LEU:HD13	10:O:307:GLY:HA3	1.19	1.06
10:O:354:ILE:HD11	10:O:368:LEU:HD22	1.27	1.06
10:O:692:LYS:CD	10:O:743:TYR:HB3	1.84	1.06
11:P:93:PHE:CB	12:Q:51:SER:HB2	1.84	1.06
3:C:103:LEU:O	3:C:106:GLN:HB3	1.54	1.06
3:C:153:LYS:HB2	8:H:59:ARG:HB3	1.34	1.06
5:E:113:ALA:HA	9:N:129:ARG:HA	1.36	1.06
10:O:6:ARG:HD3	10:O:52:PRO:HD3	1.19	1.06
10:O:288:GLN:HG3	10:O:290:LYS:NZ	1.71	1.06
7:G:185:LEU:HA	7:G:188:ILE:HD12	1.32	1.05
12:Q:7:THR:CG2	12:Q:43:ARG:HE	1.68	1.05
5:E:78:MET:CE	9:N:128:GLU:HB3	1.85	1.05
5:E:243:ASN:HB2	6:F:230:MET:HE2	1.38	1.05
6:F:257:LEU:HD22	6:F:260:ALA:HB3	1.31	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:7:VAL:CA	10:O:52:PRO:HB2	1.85	1.05
10:O:551:ARG:HG3	13:R:34:ALA:HB3	1.38	1.05
10:O:676:ARG:HE	10:O:710:ARG:NE	1.53	1.05
12:Q:7:THR:HG23	12:Q:43:ARG:HH21	1.19	1.05
12:Q:46:LEU:HD12	12:Q:54:LEU:HD21	1.36	1.05
12:Q:83:PRO:HA	12:Q:84:THR:HG23	1.38	1.05
12:Q:83:PRO:C	12:Q:84:THR:N	2.09	1.05
4:D:370:TRP:HH2	6:F:275:PHE:CD2	1.74	1.05
5:E:315:ILE:HD12	8:H:207:LEU:HD21	1.34	1.05
9:N:108:LEU:HD12	10:O:691:ARG:NH1	1.71	1.05
10:O:38:ARG:HH22	10:O:101:MET:CG	1.68	1.05
10:O:286:ILE:HG21	10:O:315:LEU:N	1.72	1.05
10:O:687:ILE:HD11	10:O:706:GLN:HE22	0.92	1.05
10:O:727:ASP:C	13:R:45:CYS:HB2	1.77	1.05
1:A:72:TYR:O	1:A:74:GLU:CB	2.04	1.05
5:E:237:LEU:HD13	6:F:48:ILE:HG22	1.37	1.05
6:F:201:ASP:OD1	6:F:222:ILE:CG2	2.05	1.05
6:F:260:ALA:HB1	7:G:174:LEU:CD2	1.85	1.05
7:G:195:ALA:CB	8:H:201:THR:CG2	2.35	1.05
7:G:203:LEU:CD1	8:H:209:ASN:O	2.05	1.05
9:N:107:THR:O	10:O:691:ARG:NH2	1.89	1.05
10:O:676:ARG:HD2	10:O:710:ARG:HH21	1.17	1.05
11:P:35:LEU:HD21	12:Q:43:ARG:CG	1.77	1.05
12:Q:7:THR:H	12:Q:44:ILE:CB	1.59	1.05
2:B:232:LEU:CD1	10:O:478:THR:CG2	2.32	1.05
3:C:367:TYR:HE2	6:F:277:THR:HG23	1.21	1.05
5:E:241:LEU:HD13	6:F:190:LEU:HB2	1.34	1.05
9:N:142:ARG:CZ	10:O:743:TYR:CE2	2.40	1.05
1:A:381:LEU:HD11	1:A:405:ILE:HD13	1.37	1.04
2:B:28:PRO:HA	2:B:31:ASP:OD2	1.56	1.04
5:E:112:ALA:H	9:N:125:ARG:HG2	1.17	1.04
6:F:70:GLY:O	6:F:124:TRP:HA	1.56	1.04
6:F:240:GLU:HA	6:F:243:LYS:NZ	1.70	1.04
9:N:169:LEU:O	10:O:691:ARG:HB2	1.54	1.04
10:O:250:CYS:CB	10:O:259:TYR:OH	2.04	1.04
10:O:506:SER:CB	13:R:29:ALA:CB	2.08	1.04
12:Q:24:MET:O	12:Q:27:PRO:N	1.89	1.04
12:Q:86:MET:CG	12:Q:87:SER:CA	2.32	1.04
5:E:316:HIS:CE1	8:H:207:LEU:CB	2.39	1.04
6:F:232:HIS:HE1	7:G:182:GLU:OE2	1.40	1.04
10:O:188:PHE:HD2	10:O:207:PHE:HB2	1.12	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:575:ALA:HB2	10:O:650:LYS:HG2	1.39	1.04
10:O:676:ARG:NE	10:O:710:ARG:NE	2.04	1.04
10:O:684:ILE:HG22	10:O:725:LEU:HD11	1.38	1.04
11:P:4:PHE:CZ	12:Q:66:LYS:CD	2.40	1.04
11:P:70:GLN:HA	12:Q:59:GLU:HG2	1.38	1.04
1:A:282:LEU:HA	1:A:285:LEU:HD12	1.37	1.04
2:B:297:GLN:HE22	13:R:67:GLU:HG3	1.23	1.04
3:C:145:LEU:HD21	3:C:157:PRO:HG2	1.39	1.04
5:E:106:ARG:CG	9:N:124:GLU:OE1	2.06	1.04
5:E:318:LEU:CD1	6:F:282:GLN:HE21	1.70	1.04
10:O:442:ARG:HG2	10:O:447:LEU:HB2	1.35	1.04
12:Q:26:SER:CA	12:Q:27:PRO:HD2	1.79	1.04
6:F:115:VAL:HG11	9:N:132:GLU:CB	1.84	1.04
10:O:35:TRP:CG	10:O:104:LEU:HD11	1.91	1.04
10:O:148:ARG:CZ	10:O:194:TYR:CE1	2.35	1.04
10:O:676:ARG:CZ	10:O:710:ARG:CZ	2.34	1.04
2:B:442:LEU:HD22	6:F:309:PHE:CE2	1.92	1.04
5:E:116:TYR:CB	9:N:132:GLU:HB2	1.88	1.04
10:O:211:PHE:CD2	10:O:259:TYR:CB	2.40	1.04
10:O:350:PHE:HB3	10:O:368:LEU:HD21	1.32	1.04
10:O:568:TYR:HB3	13:R:18:LYS:HA	1.31	1.04
12:Q:29:LEU:O	12:Q:33:ILE:HG22	1.58	1.04
4:D:362:GLU:CB	4:D:364:ARG:NH1	2.20	1.03
6:F:205:ARG:NH2	6:F:219:GLU:CD	2.12	1.03
7:G:196:ASN:ND2	8:H:204:VAL:HG21	1.33	1.03
6:F:117:LYS:NZ	9:N:137:PRO:CG	2.19	1.03
10:O:6:ARG:HD2	10:O:52:PRO:CD	1.80	1.03
10:O:250:CYS:CB	10:O:259:TYR:HE2	1.69	1.03
10:O:693:VAL:C	10:O:699:LEU:HD23	1.78	1.03
12:Q:46:LEU:HD11	12:Q:49:PHE:CB	1.69	1.03
5:E:244:LYS:HG2	6:F:230:MET:HG2	1.04	1.03
5:E:244:LYS:CG	6:F:230:MET:HG2	1.87	1.03
6:F:114:GLN:CB	9:N:132:GLU:CA	2.37	1.03
6:F:117:LYS:NZ	9:N:137:PRO:HD3	1.73	1.03
6:F:117:LYS:NZ	9:N:137:PRO:HG3	1.72	1.03
7:G:203:LEU:HD12	8:H:209:ASN:O	1.59	1.03
10:O:567:ASN:ND2	13:R:22:PHE:HD1	1.57	1.03
11:P:15:PHE:HB2	12:Q:17:GLU:O	1.58	1.03
2:B:205:TYR:HA	2:B:208:GLN:HB2	1.39	1.03
3:C:390:LEU:CD2	6:F:298:THR:HG23	1.88	1.03
5:E:242:TRP:CD2	6:F:222:ILE:O	2.10	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:151:PHE:O	6:F:167:VAL:HA	1.59	1.03
10:O:202:PHE:CG	10:O:206:ILE:HD12	1.93	1.03
10:O:511:VAL:HG21	13:R:32:LEU:O	1.57	1.03
10:O:575:ALA:HB1	10:O:653:ILE:HG12	1.37	1.03
10:O:676:ARG:HH21	10:O:710:ARG:CB	1.71	1.03
10:O:729:GLN:NE2	13:R:54:ILE:HG21	1.70	1.03
7:G:203:LEU:HD11	8:H:209:ASN:HB3	1.07	1.03
10:O:551:ARG:HA	13:R:32:LEU:HD13	1.37	1.03
11:P:25:PHE:HB2	11:P:53:ASP:HB3	1.40	1.03
12:Q:9:VAL:HG11	12:Q:45:GLU:OE2	0.86	1.03
2:B:28:PRO:CA	10:O:648:ARG:HD2	1.89	1.02
3:C:11:SER:HA	3:C:15:LEU:HB2	1.39	1.02
7:G:195:ALA:HB1	8:H:201:THR:CG2	1.87	1.02
9:N:173:LEU:HD12	10:O:695:ARG:CD	1.88	1.02
10:O:344:LEU:HD21	10:O:421:VAL:HG21	1.08	1.02
10:O:611:THR:HB	10:O:630:GLU:HA	1.38	1.02
2:B:251:PHE:HA	2:B:254:ALA:HB3	1.42	1.02
5:E:246:TRP:HB2	6:F:228:ILE:HG13	1.39	1.02
6:F:243:LYS:HG3	7:G:172:ARG:CZ	1.89	1.02
12:Q:7:THR:H	12:Q:44:ILE:HB	1.22	1.02
3:C:391:LYS:HE3	6:F:297:LYS:HE2	1.41	1.02
4:D:370:TRP:HH2	6:F:275:PHE:CZ	1.76	1.02
10:O:211:PHE:C	10:O:262:VAL:HG21	1.80	1.02
11:P:9:ARG:HB3	11:P:12:THR:HB	1.40	1.02
12:Q:6:VAL:HG21	12:Q:29:LEU:CG	1.89	1.02
12:Q:7:THR:HG23	12:Q:43:ARG:NH2	1.72	1.02
2:B:297:GLN:OE1	13:R:70:VAL:HG12	1.60	1.02
10:O:222:GLU:CG	10:O:242:ARG:HD3	1.72	1.02
12:Q:86:MET:HE3	12:Q:87:SER:C	1.78	1.02
5:E:314:ALA:HB3	6:F:289:MET:SD	1.98	1.02
5:E:319:MET:HE2	8:H:203:TYR:HB3	1.03	1.02
5:E:327:LEU:CD2	7:G:185:LEU:CD2	2.38	1.02
10:O:38:ARG:NH2	10:O:101:MET:CE	2.21	1.02
10:O:350:PHE:CD2	10:O:368:LEU:HD11	1.94	1.02
5:E:112:ALA:N	9:N:125:ARG:HG2	1.74	1.01
7:G:69:LEU:HD12	7:G:73:GLY:HA3	1.41	1.01
10:O:6:ARG:HB2	10:O:52:PRO:HD3	1.22	1.01
10:O:16:LYS:HE3	10:O:40:SER:OG	1.57	1.01
10:O:148:ARG:HH12	10:O:194:TYR:CE1	0.98	1.01
10:O:211:PHE:C	10:O:262:VAL:CG2	2.28	1.01
10:O:337:THR:O	10:O:341:GLU:CB	2.08	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:551:ARG:HB3	13:R:32:LEU:CG	1.90	1.01
13:R:88:LEU:HD13	13:R:94:CYS:HB2	1.39	1.01
1:A:420:ALA:HB3	1:A:460:LEU:HB3	1.37	1.01
3:C:15:LEU:HB3	3:C:21:MET:HG2	1.42	1.01
5:E:243:ASN:HB3	6:F:230:MET:HB2	1.42	1.01
10:O:676:ARG:HH21	10:O:710:ARG:CG	1.72	1.01
12:Q:46:LEU:HD11	12:Q:49:PHE:HB2	1.01	1.01
2:B:19:GLU:HA	10:O:652:LYS:CE	1.89	1.01
4:D:362:GLU:O	4:D:364:ARG:HG2	1.59	1.01
6:F:241:TYR:OH	6:F:251:PRO:CD	2.09	1.01
6:F:260:ALA:HB2	7:G:174:LEU:CD1	1.85	1.01
7:G:188:ILE:HG21	8:H:197:LEU:CD2	1.74	1.01
10:O:250:CYS:O	10:O:259:TYR:OH	1.78	1.01
10:O:301:LEU:CB	10:O:307:GLY:HA3	1.90	1.01
10:O:568:TYR:HB3	13:R:18:LYS:CA	1.79	1.01
10:O:676:ARG:NE	10:O:710:ARG:HE	1.55	1.01
5:E:242:TRP:CZ2	6:F:222:ILE:C	2.33	1.01
5:E:242:TRP:CD1	6:F:222:ILE:O	2.13	1.01
5:E:243:ASN:C	6:F:227:ALA:HA	1.81	1.01
10:O:46:CYS:SG	10:O:57:LEU:HD22	1.99	1.01
6:F:115:VAL:CG1	9:N:132:GLU:CA	2.37	1.01
6:F:201:ASP:OD2	6:F:219:GLU:CB	2.08	1.01
6:F:201:ASP:CG	6:F:219:GLU:O	1.98	1.01
7:G:92:GLN:HA	7:G:95:LYS:HD3	1.40	1.01
10:O:100:TYR:OH	12:Q:35:GLY:O	1.79	1.01
10:O:259:TYR:O	10:O:262:VAL:CB	2.09	1.01
10:O:282:CYS:O	10:O:311:MET:HG3	1.55	1.01
1:A:316:PHE:HB3	1:A:319:LEU:HB2	1.39	1.00
3:C:373:LEU:HD12	3:C:376:ILE:HD11	1.41	1.00
4:D:399:ALA:O	6:F:237:LEU:CD2	2.09	1.00
5:E:116:TYR:H	9:N:132:GLU:CG	1.73	1.00
5:E:318:LEU:CB	6:F:286:VAL:HG21	1.91	1.00
7:G:199:LYS:HG2	8:H:209:ASN:C	1.81	1.00
10:O:551:ARG:CB	13:R:32:LEU:CD1	2.30	1.00
3:C:117:PRO:HG3	3:C:148:LEU:HD13	1.41	1.00
10:O:81:GLU:HG2	10:O:84:LEU:HD22	1.40	1.00
12:Q:15:GLU:CG	12:Q:45:GLU:OE1	2.08	1.00
12:Q:86:MET:CG	12:Q:87:SER:HA	1.72	1.00
1:A:368:LYS:HA	1:A:371:GLU:HB2	1.44	1.00
4:D:317:ASN:C	4:D:361:PHE:CG	2.34	1.00
5:E:117:MET:HG2	5:E:120:TYR:HB3	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:159:GLN:HG2	5:E:165:PHE:HB3	1.43	1.00
6:F:115:VAL:HG13	9:N:132:GLU:HA	1.01	1.00
8:H:65:LYS:HA	8:H:71:LEU:HD23	1.43	1.00
9:N:107:THR:HG22	9:N:169:LEU:HD23	1.44	1.00
10:O:16:LYS:HG2	10:O:37:ASP:OD1	1.59	1.00
10:O:38:ARG:NH2	10:O:101:MET:CG	2.24	1.00
10:O:396:ASP:HA	10:O:447:LEU:HB3	1.43	1.00
10:O:727:ASP:O	13:R:45:CYS:HB2	1.61	1.00
11:P:24:VAL:HG13	11:P:44:LEU:HD12	1.43	1.00
12:Q:5:PHE:O	12:Q:42:GLY:C	1.98	1.00
12:Q:23:ALA:HB1	12:Q:29:LEU:HG	1.44	1.00
5:E:78:MET:HE2	9:N:128:GLU:HB3	1.00	1.00
5:E:116:TYR:H	9:N:132:GLU:HG3	0.84	1.00
10:O:7:VAL:HA	10:O:52:PRO:CB	1.91	1.00
10:O:344:LEU:HD21	10:O:421:VAL:HG23	1.42	1.00
10:O:692:LYS:HD2	10:O:743:TYR:HB2	1.43	1.00
2:B:105:ARG:CZ	10:O:401:LYS:HD3	1.91	1.00
10:O:81:GLU:HA	10:O:84:LEU:HD13	1.44	1.00
10:O:260:THR:O	10:O:263:ILE:N	1.94	1.00
6:F:292:LEU:CA	6:F:295:ILE:HD12	1.92	1.00
10:O:188:PHE:HE2	10:O:207:PHE:HD1	1.08	1.00
2:B:25:ASN:O	10:O:647:LYS:HG2	1.60	1.00
3:C:149:CYS:HB2	3:C:155:PHE:HA	1.44	0.99
6:F:257:LEU:HD21	7:G:174:LEU:CG	1.92	0.99
6:F:258:ARG:HH11	7:G:159:GLY:CA	1.73	0.99
10:O:294:MET:SD	10:O:311:MET:HG2	2.01	0.99
10:O:574:VAL:HG13	13:R:25:LYS:NZ	1.77	0.99
12:Q:83:PRO:O	12:Q:84:THR:N	1.95	0.99
5:E:315:ILE:HD12	8:H:207:LEU:CD2	1.92	0.99
10:O:208:GLU:OE2	10:O:257:SER:O	1.78	0.99
12:Q:6:VAL:CB	12:Q:29:LEU:CD1	2.39	0.99
2:B:143:LYS:NZ	10:O:408:GLU:O	1.95	0.99
3:C:390:LEU:HD21	6:F:298:THR:HG23	1.44	0.99
3:C:398:THR:HG22	7:G:213:VAL:HG12	1.40	0.99
5:E:111:ALA:O	9:N:129:ARG:CD	2.07	0.99
10:O:189:VAL:HG23	10:O:255:HIS:HE1	1.17	0.99
10:O:594:VAL:HG13	10:O:598:GLU:HB2	1.41	0.99
2:B:116:LEU:HD23	2:B:128:LEU:HD11	1.41	0.99
4:D:316:TYR:HE1	7:G:145:LEU:CD2	1.74	0.99
5:E:57:ILE:HG12	5:E:92:ILE:HB	1.44	0.99
5:E:244:LYS:HG2	6:F:230:MET:CG	1.90	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:152:LEU:HA	6:F:166:SER:O	1.61	0.99
6:F:205:ARG:NH2	6:F:219:GLU:OE2	1.96	0.99
6:F:240:GLU:HA	6:F:243:LYS:HE2	1.26	0.99
10:O:6:ARG:NH2	10:O:51:GLU:OE1	1.95	0.99
10:O:220:LYS:CE	10:O:274:HIS:NE2	2.24	0.99
10:O:549:SER:C	13:R:33:TRP:CH2	2.36	0.99
10:O:565:LYS:HG2	10:O:574:VAL:HG13	1.44	0.99
3:C:52:GLN:HA	3:C:91:GLU:HB2	1.45	0.99
5:E:311:THR:HA	6:F:289:MET:CE	1.93	0.99
12:Q:86:MET:HG2	12:Q:87:SER:N	1.77	0.99
9:N:169:LEU:C	9:N:171:LEU:H	1.64	0.99
5:E:312:ILE:CD1	8:H:207:LEU:O	2.10	0.99
4:D:370:TRP:CH2	6:F:275:PHE:CD2	2.50	0.99
3:C:403:PHE:CE2	6:F:311:VAL:HG13	1.91	0.99
6:F:123:GLY:HA2	6:F:142:VAL:HG11	1.41	0.99
9:N:142:ARG:HH12	10:O:689:LYS:HG2	0.84	0.99
10:O:151:MET:CE	10:O:191:VAL:CG2	2.40	0.99
10:O:695:ARG:HA	10:O:740:GLU:HA	1.43	0.99
11:P:69:PRO:CB	12:Q:59:GLU:OE2	2.11	0.99
2:B:427:TRP:CD1	5:E:270:SER:CB	2.46	0.99
5:E:319:MET:CE	8:H:203:TYR:HB3	1.92	0.99
10:O:21:ILE:O	10:O:25:VAL:CG1	2.11	0.99
10:O:212:LEU:HD22	10:O:265:GLU:HB3	1.42	0.99
5:E:322:VAL:CG1	6:F:279:PHE:HZ	1.76	0.98
11:P:35:LEU:HD22	12:Q:43:ARG:HG3	1.42	0.98
10:O:6:ARG:HD3	10:O:52:PRO:CD	1.81	0.98
10:O:339:PHE:CD2	10:O:390:LEU:HD12	1.98	0.98
11:P:7:ILE:HB	11:P:14:ILE:HB	1.45	0.98
9:N:150:MSE:HE1	9:N:167:LEU:HA	1.45	0.98
10:O:100:TYR:CZ	12:Q:35:GLY:O	2.16	0.98
10:O:185:ILE:HG12	10:O:207:PHE:CE2	1.98	0.98
4:D:395:TRP:HB3	6:F:241:TYR:CD1	1.98	0.98
10:O:211:PHE:CZ	10:O:259:TYR:HD2	1.81	0.98
12:Q:9:VAL:HG21	12:Q:45:GLU:HG3	1.00	0.98
2:B:438:VAL:CG2	6:F:299:CYS:SG	2.52	0.98
10:O:312:ILE:HG12	10:O:364:PHE:CE1	1.99	0.98
10:O:567:ASN:CG	13:R:22:PHE:H	1.65	0.98
5:E:167:ALA:HB3	5:E:186:PHE:HB2	1.44	0.98
6:F:115:VAL:CG1	9:N:132:GLU:HA	1.93	0.98
10:O:48:ALA:C	10:O:50:PRO:N	2.17	0.98
10:O:568:TYR:HB2	13:R:18:LYS:HA	1.03	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:188:ILE:CD1	8:H:197:LEU:HD11	1.94	0.98
10:O:16:LYS:NZ	10:O:38:ARG:C	2.16	0.98
10:O:511:VAL:HG22	13:R:32:LEU:O	1.64	0.98
6:F:292:LEU:HA	6:F:295:ILE:CD1	1.94	0.98
8:H:34:PRO:HB3	8:H:64:ILE:HG23	1.46	0.98
2:B:106:ASN:ND2	10:O:401:LYS:NZ	2.11	0.98
4:D:317:ASN:C	4:D:361:PHE:CB	2.12	0.98
10:O:551:ARG:O	13:R:33:TRP:CE2	2.17	0.98
1:A:482:PHE:CD1	2:B:435:ASN:ND2	2.29	0.98
5:E:106:ARG:HG3	9:N:124:GLU:OE1	1.64	0.98
10:O:16:LYS:CE	10:O:41:ASP:H	1.75	0.98
5:E:304:THR:HG21	6:F:300:ASN:HB2	1.04	0.97
10:O:42:ILE:HD12	10:O:105:TYR:OH	1.63	0.97
2:B:441:LYS:CB	6:F:306:VAL:HG21	1.94	0.97
5:E:106:ARG:CZ	9:N:124:GLU:C	2.20	0.97
6:F:110:GLU:OE2	9:N:134:GLU:HA	1.63	0.97
7:G:199:LYS:HG2	8:H:209:ASN:OXT	1.63	0.97
10:O:10:PHE:CE2	10:O:59:THR:HB	1.99	0.97
10:O:22:LYS:HA	10:O:25:VAL:HG13	1.45	0.97
10:O:151:MET:HE1	10:O:191:VAL:HG21	1.44	0.97
2:B:25:ASN:C	10:O:647:LYS:HG2	1.67	0.97
2:B:330:LEU:HA	2:B:333:ASN:HB2	1.47	0.97
5:E:106:ARG:NH1	9:N:124:GLU:C	2.16	0.97
5:E:116:TYR:HA	9:N:132:GLU:O	1.64	0.97
8:H:98:TRP:HB3	8:H:102:VAL:HB	1.44	0.97
10:O:202:PHE:CG	10:O:206:ILE:CD1	2.48	0.97
10:O:283:HIS:NE2	10:O:314:GLU:C	1.99	0.97
10:O:302:ARG:HB2	10:O:308:LEU:HD11	1.42	0.97
7:G:188:ILE:HG13	8:H:197:LEU:HD11	1.42	0.97
2:B:370:HIS:N	4:D:354:GLN:OE1	1.97	0.97
4:D:318:ASN:N	4:D:361:PHE:HD1	1.62	0.97
5:E:185:ALA:HB3	5:E:224:LEU:HB2	1.43	0.97
10:O:700:ILE:HB	10:O:718:ILE:HG13	1.42	0.97
12:Q:28:THR:O	12:Q:32:MET:HB2	1.65	0.97
4:D:365:GLU:O	6:F:270:LEU:CD1	2.13	0.97
12:Q:86:MET:HE2	12:Q:87:SER:HA	1.38	0.97
2:B:41:ALA:HB2	2:B:53:SER:HB2	1.46	0.97
2:B:105:ARG:HG2	10:O:401:LYS:HZ2	1.26	0.97
10:O:567:ASN:HB3	13:R:22:PHE:N	1.79	0.97
5:E:78:MET:HE2	9:N:128:GLU:CB	1.94	0.96
5:E:304:THR:CG2	6:F:300:ASN:CB	2.19	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:560:CYS:HB2	10:O:579:THR:HG23	1.47	0.96
10:O:692:LYS:NZ	10:O:743:TYR:HD2	1.63	0.96
12:Q:15:GLU:CG	12:Q:45:GLU:CD	2.34	0.96
4:D:365:GLU:HA	6:F:274:LYS:NZ	1.79	0.96
6:F:117:LYS:NZ	9:N:137:PRO:CD	2.27	0.96
11:P:35:LEU:CD2	12:Q:43:ARG:CD	2.43	0.96
11:P:99:LEU:HD22	11:P:100:PRO:HD2	1.45	0.96
2:B:143:LYS:HE2	10:O:407:THR:CG2	1.96	0.96
2:B:296:SER:O	13:R:67:GLU:OE2	1.83	0.96
4:D:317:ASN:CB	4:D:361:PHE:CD1	2.46	0.96
11:P:96:PRO:CB	12:Q:85:GLU:OE2	2.13	0.96
2:B:443:ALA:HB1	3:C:244:TYR:CB	1.95	0.96
5:E:243:ASN:CB	6:F:230:MET:HE2	1.94	0.96
10:O:103:CYS:SG	12:Q:31:ALA:CB	2.51	0.96
10:O:727:ASP:OD2	13:R:46:ARG:HB2	1.63	0.96
5:E:327:LEU:CD2	7:G:185:LEU:HD21	1.94	0.96
7:G:188:ILE:CG2	8:H:197:LEU:HD21	1.76	0.96
10:O:301:LEU:HD13	10:O:307:GLY:HA2	1.48	0.96
10:O:564:VAL:HG12	13:R:22:PHE:CG	2.00	0.96
13:R:69:THR:HG22	13:R:78:ALA:HB1	1.47	0.96
4:D:370:TRP:CH2	6:F:275:PHE:CZ	2.53	0.96
6:F:292:LEU:HA	6:F:295:ILE:HD12	0.98	0.96
11:P:34:ILE:CD1	12:Q:5:PHE:CZ	2.48	0.96
10:O:6:ARG:CB	10:O:52:PRO:HD3	1.81	0.96
10:O:226:LEU:HD11	10:O:242:ARG:NH1	1.80	0.96
7:G:23:SER:HA	7:G:27:LEU:HB2	1.46	0.96
5:E:312:ILE:HA	8:H:207:LEU:CD2	1.95	0.96
10:O:354:ILE:HD13	10:O:368:LEU:HD22	1.46	0.96
10:O:390:LEU:HA	10:O:393:LYS:HB2	1.46	0.96
10:O:692:LYS:CE	10:O:743:TYR:CD2	2.48	0.96
2:B:31:ASP:CG	10:O:648:ARG:HH12	1.66	0.95
5:E:314:ALA:CB	6:F:289:MET:CE	2.44	0.95
10:O:6:ARG:CG	10:O:52:PRO:CD	2.44	0.95
3:C:129:ASP:HA	3:C:132:GLN:HG2	1.45	0.95
3:C:369:ASN:HB2	3:C:372:MET:HG2	1.46	0.95
6:F:260:ALA:HB2	7:G:174:LEU:HD13	1.48	0.95
8:H:113:THR:HA	8:H:116:ARG:HD3	1.46	0.95
3:C:111:LEU:HD13	3:C:117:PRO:HD3	1.49	0.95
10:O:437:ARG:NH2	10:O:660:ASP:OD2	1.99	0.95
6:F:270:LEU:C	6:F:272:THR:N	2.01	0.95
12:Q:46:LEU:HD13	12:Q:49:PHE:CA	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:56:LYS:HG3	5:E:89:THR:HG21	1.45	0.95
7:G:199:LYS:HE2	7:G:203:LEU:HD12	1.49	0.95
9:N:143:LEU:HB3	9:N:150:MSE:HE3	1.46	0.95
10:O:335:MET:HE3	10:O:336:PRO:HD2	1.49	0.95
10:O:567:ASN:HB3	13:R:22:PHE:H	1.28	0.95
12:Q:9:VAL:CB	12:Q:45:GLU:CD	2.34	0.95
12:Q:26:SER:CA	12:Q:27:PRO:CD	2.44	0.95
1:A:273:GLU:O	1:A:277:GLN:HB2	1.65	0.95
11:P:96:PRO:HB2	12:Q:85:GLU:OE2	1.55	0.95
13:R:41:ASN:HA	13:R:49:ILE:HB	1.49	0.95
1:A:453:VAL:HG22	1:A:460:LEU:HA	1.48	0.95
5:E:107:VAL:C	9:N:122:LYS:CG	2.35	0.95
10:O:6:ARG:CG	10:O:52:PRO:HD3	1.95	0.95
1:A:76:ASP:O	1:A:106:HIS:O	1.84	0.95
4:D:316:TYR:CZ	7:G:145:LEU:HG	2.01	0.95
10:O:22:LYS:HA	10:O:25:VAL:HG11	1.49	0.95
10:O:285:ILE:HB	10:O:294:MET:CE	1.97	0.95
2:B:245:HIS:HA	2:B:248:GLU:HB3	1.48	0.95
6:F:260:ALA:HB1	7:G:174:LEU:HD21	1.46	0.95
7:G:140:ILE:HG23	7:G:141:ILE:HG13	1.49	0.95
10:O:211:PHE:HE2	10:O:259:TYR:HD2	1.01	0.95
10:O:285:ILE:HG21	10:O:294:MET:HB2	1.49	0.95
13:R:39:VAL:HG11	13:R:70:VAL:HG22	1.46	0.95
2:B:165:TYR:HA	2:B:168:LEU:HB3	1.44	0.95
4:D:317:ASN:ND2	7:G:145:LEU:H	1.61	0.95
5:E:318:LEU:CD1	6:F:282:GLN:HG3	1.96	0.95
6:F:72:LEU:HA	6:F:86:SER:HB3	1.49	0.95
10:O:47:VAL:O	10:O:49:TYR:CD1	2.04	0.95
10:O:549:SER:O	13:R:33:TRP:HH2	1.49	0.95
12:Q:3:GLN:CA	15:Q:103:HOH:O	2.03	0.95
6:F:241:TYR:OH	6:F:251:PRO:HD2	1.66	0.94
7:G:31:ILE:HD11	7:G:55:LEU:HG	1.48	0.94
10:O:236:MET:SD	10:O:278:LEU:HD22	2.06	0.94
10:O:439:LEU:HA	10:O:442:ARG:HB2	1.49	0.94
4:D:370:TRP:NE1	6:F:270:LEU:HB2	1.82	0.94
6:F:201:ASP:OD2	6:F:219:GLU:CA	2.15	0.94
1:A:104:ALA:HB1	1:A:111:ARG:HG3	1.48	0.94
4:D:395:TRP:CD2	6:F:241:TYR:HE1	1.85	0.94
6:F:260:ALA:HB3	7:G:174:LEU:HD11	1.49	0.94
10:O:35:TRP:CG	10:O:104:LEU:CD1	2.48	0.94
12:Q:41:LYS:CD	12:Q:42:GLY:N	2.29	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LYS:HA	1:A:197:ILE:HD12	1.48	0.94
2:B:17:ASP:CB	2:B:64:LYS:HD2	1.97	0.94
3:C:5:LEU:HB3	3:C:9:VAL:HG23	1.49	0.94
10:O:10:PHE:CB	10:O:56:ARG:CG	2.45	0.94
10:O:22:LYS:N	10:O:68:HIS:HA	1.81	0.94
11:P:96:PRO:CD	12:Q:52:HIS:CE1	2.43	0.94
12:Q:7:THR:HG21	12:Q:43:ARG:NE	1.81	0.94
3:C:23:GLN:HB3	3:C:58:VAL:HB	1.48	0.94
4:D:317:ASN:OD1	7:G:144:LYS:HB2	1.63	0.94
10:O:16:LYS:CG	10:O:41:ASP:HB2	1.97	0.94
10:O:10:PHE:CZ	10:O:59:THR:HB	2.03	0.94
10:O:118:LEU:HD21	10:O:195:LYS:CD	1.96	0.94
11:P:15:PHE:CE2	12:Q:16:TYR:CB	2.31	0.94
1:A:99:ARG:HH22	1:A:391:ASP:HA	1.31	0.94
2:B:32:LEU:HD23	10:O:648:ARG:NH2	1.80	0.94
2:B:47:PRO:HA	2:B:50:ALA:HB3	1.48	0.94
2:B:297:GLN:NE2	13:R:67:GLU:HG3	1.74	0.94
5:E:320:SER:HA	5:E:323:ILE:HD12	1.47	0.94
6:F:45:PRO:HD3	6:F:196:GLU:HG3	1.49	0.94
6:F:169:GLU:O	6:F:183:PHE:HA	1.65	0.94
7:G:199:LYS:CG	8:H:209:ASN:OXT	2.15	0.94
10:O:443:LEU:HD11	10:O:476:MET:HG3	1.49	0.94
10:O:676:ARG:HH21	10:O:710:ARG:HB3	1.33	0.94
12:Q:6:VAL:HA	12:Q:41:LYS:HZ3	1.27	0.94
1:A:440:LEU:HA	1:A:443:LEU:HD12	1.46	0.94
1:A:468:ARG:NH2	6:F:281:ASP:CA	2.18	0.94
6:F:201:ASP:OD2	6:F:219:GLU:HB3	1.67	0.94
10:O:16:LYS:CB	10:O:41:ASP:HB2	1.96	0.94
10:O:222:GLU:HG2	10:O:242:ARG:HD2	1.46	0.94
10:O:227:LEU:CD1	10:O:235:TYR:CD1	2.48	0.94
10:O:503:LEU:C	13:R:26:LYS:CA	2.33	0.94
11:P:7:ILE:HG22	11:P:77:LEU:HB2	1.49	0.94
12:Q:9:VAL:HG21	12:Q:45:GLU:CD	1.75	0.94
3:C:17:ALA:HB2	3:C:52:GLN:HG3	1.50	0.94
5:E:327:LEU:HD22	7:G:185:LEU:HD21	1.50	0.94
10:O:48:ALA:C	10:O:49:TYR:C	2.27	0.94
10:O:381:PRO:HB2	10:O:383:SER:H	1.18	0.94
10:O:580:TYR:HB3	10:O:609:GLU:HB3	1.48	0.94
5:E:242:TRP:HZ2	6:F:225:HIS:N	1.38	0.93
5:E:243:ASN:CB	6:F:230:MET:CE	2.46	0.93
12:Q:7:THR:CG2	12:Q:43:ARG:NE	2.29	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:688:MET:HE1	10:O:725:LEU:HB3	0.95	0.93
4:D:380:GLN:NE2	7:G:156:PHE:CD1	2.36	0.93
5:E:158:ASN:HA	5:E:161:PHE:HB2	1.48	0.93
10:O:148:ARG:NH1	10:O:194:TYR:HD1	1.52	0.93
10:O:148:ARG:NH2	10:O:194:TYR:CE1	2.34	0.93
10:O:185:ILE:HG12	10:O:207:PHE:CZ	2.03	0.93
10:O:219:TYR:CE2	10:O:246:GLU:OE1	2.21	0.93
12:Q:7:THR:CG2	12:Q:43:ARG:CZ	2.46	0.93
6:F:257:LEU:HB3	7:G:170:ILE:HG21	1.48	0.93
6:F:260:ALA:HB1	7:G:174:LEU:CD1	1.98	0.93
7:G:196:ASN:ND2	8:H:204:VAL:CG2	1.89	0.93
10:O:335:MET:CE	10:O:336:PRO:HD2	1.97	0.93
10:O:439:LEU:HG	10:O:443:LEU:HB2	1.51	0.93
3:C:216:VAL:HG13	3:C:253:ILE:HD11	1.49	0.93
5:E:327:LEU:HD22	7:G:185:LEU:CD2	1.98	0.93
9:N:108:LEU:HD12	10:O:691:ARG:HH11	1.26	0.93
10:O:10:PHE:CE2	10:O:60:GLU:HG2	2.04	0.93
10:O:16:LYS:CB	10:O:41:ASP:CB	2.47	0.93
3:C:12:VAL:HG11	3:C:46:LEU:HA	1.50	0.93
3:C:352:ASN:HB3	3:C:357:MET:H	1.34	0.93
5:E:246:TRP:CE3	6:F:228:ILE:HG13	2.00	0.93
10:O:503:LEU:C	13:R:26:LYS:HB2	1.86	0.93
10:O:301:LEU:HB3	10:O:307:GLY:CA	1.99	0.93
10:O:503:LEU:C	13:R:26:LYS:CB	2.35	0.93
10:O:551:ARG:CB	13:R:32:LEU:HB3	1.97	0.93
10:O:551:ARG:HA	13:R:32:LEU:CD1	1.94	0.93
12:Q:86:MET:HE3	12:Q:87:SER:CA	1.97	0.93
12:Q:86:MET:HE2	12:Q:87:SER:C	1.84	0.93
5:E:79:GLY:O	5:E:136:TRP:HA	1.68	0.93
5:E:107:VAL:HG12	9:N:120:THR:O	1.67	0.93
10:O:9:ASP:C	10:O:56:ARG:HH11	1.72	0.93
10:O:35:TRP:CD2	10:O:104:LEU:HD11	2.03	0.93
10:O:368:LEU:O	10:O:372:LEU:HB2	1.67	0.93
10:O:381:PRO:CG	10:O:384:VAL:HA	1.99	0.93
3:C:192:TYR:HB2	3:C:201:ALA:HB2	1.51	0.92
3:C:381:LEU:HA	3:C:384:ILE:HD12	1.51	0.92
4:D:366:ALA:HB3	4:D:368:PRO:HD2	1.51	0.92
5:E:325:ASP:OD1	6:F:275:PHE:HE2	1.41	0.92
12:Q:41:LYS:HE2	12:Q:43:ARG:O	1.68	0.92
5:E:56:LYS:HB2	5:E:91:ILE:HG12	1.49	0.92
10:O:100:TYR:CE1	12:Q:35:GLY:CA	2.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:244:LYS:CD	6:F:230:MET:CG	2.47	0.92
5:E:244:LYS:CD	6:F:230:MET:HG3	1.98	0.92
5:E:311:THR:HG23	6:F:289:MET:HG2	1.50	0.92
8:H:78:GLY:HA2	8:H:81:ILE:HD12	1.47	0.92
10:O:203:TYR:HE2	10:O:208:GLU:CD	1.67	0.92
10:O:289:GLU:O	10:O:290:LYS:HG2	1.68	0.92
10:O:289:GLU:C	10:O:290:LYS:CG	2.19	0.92
10:O:585:LEU:HD11	13:R:22:PHE:CD2	2.04	0.92
10:O:657:MET:SD	10:O:657:MET:N	2.36	0.92
9:N:136:ILE:HD11	9:N:175:GLY:O	1.69	0.92
1:A:274:ARG:HB3	1:A:277:GLN:HG3	1.52	0.92
2:B:136:LEU:HD23	2:B:139:LEU:HD12	1.47	0.92
2:B:427:TRP:HE1	5:E:270:SER:HB2	1.31	0.92
5:E:116:TYR:HB2	9:N:132:GLU:HB2	0.96	0.92
6:F:65:PRO:HB3	6:F:157:MET:HG3	1.50	0.92
6:F:115:VAL:HG13	9:N:132:GLU:CB	1.95	0.92
10:O:22:LYS:CA	10:O:25:VAL:HG13	2.00	0.92
10:O:103:CYS:HB3	12:Q:32:MET:CA	1.98	0.92
1:A:451:ALA:HB1	1:A:460:LEU:HD11	1.51	0.92
10:O:16:LYS:HD2	10:O:41:ASP:CA	1.99	0.92
10:O:47:VAL:O	10:O:49:TYR:HD1	1.48	0.92
10:O:188:PHE:CE2	10:O:207:PHE:HD1	1.86	0.92
2:B:357:GLN:HA	2:B:360:ILE:HD12	1.51	0.92
9:N:170:VAL:CG2	10:O:687:ILE:O	2.17	0.92
10:O:729:GLN:HE22	13:R:54:ILE:HG21	1.34	0.92
2:B:232:LEU:HD13	10:O:478:THR:HG23	0.94	0.92
10:O:24:VAL:HG13	10:O:30:VAL:HG12	1.51	0.92
10:O:501:ILE:HG12	13:R:24:VAL:O	1.70	0.92
6:F:122:LEU:HD21	6:F:150:LEU:HD13	1.50	0.92
6:F:235:VAL:HA	6:F:238:ILE:HD12	1.51	0.92
6:F:257:LEU:HD23	6:F:260:ALA:HB2	1.51	0.92
10:O:427:ASP:HB3	10:O:430:VAL:HB	1.51	0.92
1:A:279:GLN:HA	1:A:313:HIS:HA	1.53	0.92
7:G:98:HIS:HA	7:G:101:ILE:HG22	1.52	0.92
7:G:196:ASN:HD22	8:H:204:VAL:HG21	1.34	0.92
10:O:6:ARG:HB2	10:O:52:PRO:HD2	1.08	0.92
4:D:395:TRP:CB	6:F:241:TYR:CE1	2.53	0.91
5:E:107:VAL:CA	9:N:122:LYS:HG3	1.88	0.91
9:N:144:ILE:HD13	10:O:690:ALA:HA	0.93	0.91
9:N:173:LEU:HD11	10:O:695:ARG:HG2	1.41	0.91
10:O:259:TYR:C	10:O:262:VAL:CG1	2.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:551:ARG:CB	13:R:32:LEU:CB	2.48	0.91
1:A:280:ALA:HB3	1:A:283:THR:HG23	1.53	0.91
2:B:214:LEU:HA	2:B:217:LEU:HD12	1.52	0.91
5:E:75:LEU:HD22	5:E:101:GLU:HG2	1.50	0.91
5:E:245:TYR:N	6:F:227:ALA:HB2	1.64	0.91
5:E:318:LEU:HD22	6:F:286:VAL:CG2	2.00	0.91
10:O:700:ILE:HD12	10:O:718:ILE:HB	1.51	0.91
3:C:15:LEU:HA	3:C:18:GLN:HG3	1.50	0.91
10:O:279:HIS:O	10:O:310:HIS:CB	2.18	0.91
10:O:688:MET:HE2	10:O:725:LEU:HD13	0.92	0.91
10:O:657:MET:HB3	10:O:659:LYS:HZ3	1.27	0.91
5:E:304:THR:HB	6:F:300:ASN:ND2	1.85	0.91
10:O:567:ASN:HB3	13:R:21:ARG:H	1.36	0.91
10:O:656:SER:O	10:O:658:GLN:HG3	1.71	0.91
5:E:106:ARG:HB2	5:E:109:ALA:HB2	1.51	0.91
5:E:312:ILE:HG23	8:H:207:LEU:HB3	1.52	0.91
10:O:202:PHE:CD1	10:O:206:ILE:HD11	2.05	0.91
10:O:10:PHE:HB3	10:O:56:ARG:CG	1.99	0.91
3:C:85:ILE:HG13	3:C:124:LEU:HG	1.52	0.91
6:F:258:ARG:HH12	7:G:159:GLY:HA3	1.33	0.91
10:O:151:MET:SD	10:O:191:VAL:HG21	2.10	0.91
10:O:222:GLU:HG3	10:O:242:ARG:NE	1.83	0.91
10:O:381:PRO:HG3	10:O:384:VAL:HA	1.53	0.91
2:B:427:TRP:NE1	5:E:270:SER:CB	2.34	0.91
2:B:438:VAL:HG11	6:F:302:MET:SD	2.11	0.91
1:A:421:ASP:HA	1:A:459:ILE:HG12	1.54	0.90
2:B:24:SER:C	10:O:652:LYS:NZ	2.24	0.90
4:D:377:LEU:HD11	6:F:263:LEU:HD13	0.91	0.90
10:O:676:ARG:NH2	10:O:710:ARG:CB	2.33	0.90
10:O:696:HIS:HB2	10:O:739:ASP:HA	1.53	0.90
11:P:4:PHE:CE2	12:Q:66:LYS:HG3	2.06	0.90
5:E:171:ASP:HB3	5:E:174:ARG:HB2	1.49	0.90
6:F:35:VAL:HG22	6:F:171:VAL:HG22	1.53	0.90
10:O:21:ILE:HG13	10:O:101:MET:HE3	1.51	0.90
10:O:312:ILE:HG12	10:O:364:PHE:CD1	2.05	0.90
4:D:365:GLU:C	6:F:270:LEU:HD11	1.92	0.90
7:G:203:LEU:HD11	8:H:209:ASN:HB2	1.50	0.90
4:D:399:ALA:C	6:F:237:LEU:HD22	1.92	0.90
6:F:240:GLU:HA	6:F:243:LYS:HZ3	1.29	0.90
6:F:257:LEU:CD1	7:G:171:ALA:N	2.34	0.90
9:N:170:VAL:C	10:O:692:LYS:H	1.74	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:105:ARG:HG2	10:O:401:LYS:NZ	1.86	0.90
3:C:30:LYS:HE3	3:C:99:THR:HG22	1.52	0.90
4:D:395:TRP:CE2	6:F:250:VAL:CG2	2.55	0.90
6:F:114:GLN:HB3	9:N:132:GLU:CA	1.88	0.90
6:F:205:ARG:NH1	6:F:219:GLU:HG2	1.86	0.90
9:N:136:ILE:CG1	9:N:175:GLY:O	2.20	0.90
4:D:370:TRP:CH2	6:F:275:PHE:CE2	2.59	0.90
5:E:61:ALA:O	5:E:65:MET:HB3	1.71	0.90
7:G:195:ALA:HB1	8:H:201:THR:HG23	0.92	0.90
9:N:108:LEU:O	10:O:691:ARG:NH1	1.90	0.90
12:Q:41:LYS:HE3	12:Q:44:ILE:HG12	1.52	0.90
2:B:79:ASN:HB2	2:B:88:MET:HB2	1.52	0.90
3:C:5:LEU:HA	3:C:8:PHE:HB2	1.52	0.90
5:E:326:LYS:HG3	8:H:196:GLN:HG2	1.50	0.90
10:O:17:LEU:N	10:O:41:ASP:OD2	2.04	0.90
10:O:381:PRO:HG3	10:O:383:SER:O	1.72	0.90
11:P:35:LEU:CD2	12:Q:43:ARG:HD2	2.00	0.90
4:D:403:GLN:HG2	6:F:233:SER:OG	1.72	0.90
10:O:20:THR:CB	10:O:38:ARG:NE	2.01	0.90
10:O:281:GLU:O	10:O:297:MET:HE1	1.72	0.90
10:O:508:GLN:O	13:R:29:ALA:O	1.88	0.90
12:Q:83:PRO:HA	12:Q:84:THR:HG21	1.54	0.90
9:N:136:ILE:CD1	9:N:175:GLY:O	2.19	0.90
10:O:35:TRP:HZ2	12:Q:35:GLY:H	1.07	0.90
10:O:301:LEU:HB3	10:O:307:GLY:HA3	1.52	0.90
5:E:28:ILE:HD11	5:E:56:LYS:HD3	1.53	0.90
10:O:9:ASP:OD1	10:O:44:ALA:O	1.88	0.90
10:O:113:ILE:HD12	10:O:117:LYS:HE2	1.52	0.90
10:O:151:MET:SD	10:O:191:VAL:HG11	2.12	0.90
10:O:567:ASN:HD21	13:R:22:PHE:HD1	1.09	0.90
3:C:7:GLN:HA	3:C:10:ASN:HB2	1.54	0.89
5:E:242:TRP:HZ2	6:F:225:HIS:H	0.94	0.89
6:F:221:LEU:HA	6:F:224:GLN:HE21	1.34	0.89
5:E:318:LEU:HD22	6:F:286:VAL:HB	0.90	0.89
10:O:660:ASP:C	10:O:663:GLN:H	1.76	0.89
12:Q:7:THR:C	12:Q:45:GLU:HA	1.91	0.89
4:D:318:ASN:CG	4:D:361:PHE:CD1	2.45	0.89
10:O:286:ILE:HG23	10:O:315:LEU:HD13	1.52	0.89
10:O:506:SER:HB3	13:R:29:ALA:HB3	1.51	0.89
13:R:52:LEU:HD22	13:R:60:GLN:HG2	1.54	0.89
1:A:341:GLU:HB2	1:A:344:ARG:HH21	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:17:LEU:HA	8:H:43:LEU:HD13	1.54	0.89
10:O:220:LYS:HA	10:O:270:MET:HE3	1.54	0.89
10:O:400:LYS:HD3	10:O:403:ALA:HB3	1.55	0.89
2:B:146:ARG:HG2	2:B:229:PRO:HG3	1.54	0.89
3:C:367:TYR:CE2	6:F:277:THR:HG23	2.07	0.89
10:O:118:LEU:HD23	10:O:195:LYS:HD2	1.51	0.89
10:O:551:ARG:HG3	13:R:34:ALA:CB	2.01	0.89
1:A:127:ASN:HB2	1:A:212:GLY:HA3	1.51	0.89
2:B:19:GLU:CA	10:O:652:LYS:CG	2.51	0.89
2:B:99:ILE:HG22	2:B:100:ARG:HG3	1.52	0.89
10:O:692:LYS:CD	10:O:743:TYR:CG	2.56	0.89
5:E:76:GLU:HB3	5:E:103:THR:HB	1.55	0.89
7:G:56:ALA:HB1	7:G:64:LEU:HD22	1.54	0.89
10:O:22:LYS:CA	10:O:68:HIS:HA	2.03	0.89
10:O:219:TYR:CE2	10:O:246:GLU:HB2	2.07	0.89
3:C:158:ALA:HA	3:C:161:TYR:HD2	1.38	0.89
5:E:245:TYR:N	6:F:227:ALA:CB	2.33	0.89
10:O:20:THR:HG21	10:O:38:ARG:CD	2.02	0.89
4:D:359:VAL:C	4:D:360:HIS:HA	1.93	0.89
5:E:33:LYS:HD2	5:E:130:LEU:HB3	1.55	0.89
6:F:205:ARG:HH22	6:F:219:GLU:CD	1.70	0.89
10:O:161:ARG:HA	10:O:164:LEU:HD12	1.55	0.89
11:P:13:THR:OG1	12:Q:16:TYR:HA	1.72	0.89
11:P:15:PHE:HE2	12:Q:16:TYR:HB3	1.10	0.89
3:C:233:ILE:HG23	3:C:301:SER:HB3	1.53	0.89
3:C:310:LEU:HD11	3:C:326:VAL:HG11	1.54	0.89
5:E:246:TRP:HE3	6:F:228:ILE:HG12	1.02	0.89
10:O:727:ASP:HB2	13:R:46:ARG:CB	1.98	0.89
10:O:211:PHE:O	10:O:262:VAL:HG21	1.71	0.88
10:O:688:MET:CE	10:O:725:LEU:CB	2.45	0.88
6:F:167:VAL:O	6:F:185:GLU:HA	1.71	0.88
7:G:203:LEU:CD1	8:H:209:ASN:CB	2.49	0.88
10:O:289:GLU:CG	10:O:290:LYS:H	1.85	0.88
1:A:97:ILE:HA	1:A:100:LEU:HD12	1.55	0.88
2:B:143:LYS:HD2	10:O:408:GLU:HB2	1.56	0.88
2:B:340:ASP:HB3	2:B:343:ILE:HB	1.53	0.88
4:D:359:VAL:C	4:D:360:HIS:N	2.26	0.88
4:D:370:TRP:CZ2	6:F:275:PHE:CG	2.60	0.88
5:E:315:ILE:HD13	8:H:207:LEU:HD21	1.53	0.88
10:O:20:THR:HG21	10:O:38:ARG:HD3	1.53	0.88
10:O:688:MET:SD	10:O:731:ILE:HG22	2.10	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:174:GLU:O	10:O:175:ASP:C	1.99	0.88
11:P:93:PHE:HB3	12:Q:52:HIS:H	1.14	0.88
1:A:79:ASN:HB2	1:A:386:ASP:HB3	1.56	0.88
5:E:80:LEU:HD23	5:E:117:MET:HB2	1.56	0.88
5:E:106:ARG:HG2	9:N:124:GLU:OE1	1.71	0.88
6:F:232:HIS:CE1	7:G:182:GLU:OE2	2.25	0.88
10:O:188:PHE:HE2	10:O:207:PHE:CD1	1.91	0.88
10:O:511:VAL:HG11	13:R:33:TRP:C	1.93	0.88
10:O:22:LYS:CA	10:O:25:VAL:CG1	2.52	0.88
10:O:301:LEU:CG	10:O:307:GLY:HA3	2.02	0.88
12:Q:15:GLU:OE2	12:Q:45:GLU:CG	2.17	0.88
4:D:370:TRP:HH2	6:F:275:PHE:CE1	1.85	0.88
10:O:339:PHE:CD2	10:O:387:ALA:HB2	2.09	0.88
10:O:553:LEU:HD22	13:R:30:VAL:O	1.73	0.88
10:O:689:LYS:HA	10:O:743:TYR:CE1	2.09	0.88
2:B:10:CYS:HA	2:B:70:LYS:HD3	1.54	0.88
5:E:244:LYS:N	6:F:227:ALA:HA	1.89	0.88
10:O:211:PHE:CZ	10:O:253:TYR:OH	2.10	0.88
12:Q:5:PHE:O	12:Q:42:GLY:CA	2.22	0.88
5:E:255:LEU:HG	5:E:321:GLN:HG3	1.52	0.88
9:N:107:THR:O	10:O:691:ARG:CZ	2.16	0.88
10:O:21:ILE:HG12	10:O:101:MET:HE3	1.55	0.88
10:O:285:ILE:HB	10:O:294:MET:HE2	1.54	0.88
4:D:370:TRP:HH2	6:F:275:PHE:CG	1.82	0.88
8:H:40:LEU:HD23	8:H:43:LEU:HD12	1.57	0.88
11:P:35:LEU:HD21	12:Q:43:ARG:CD	2.04	0.88
3:C:28:ILE:HG22	3:C:98:ASP:HB2	1.55	0.87
9:N:169:LEU:C	9:N:170:VAL:CA	2.42	0.87
11:P:35:LEU:CD2	12:Q:43:ARG:HG3	1.97	0.87
11:P:93:PHE:CB	12:Q:51:SER:CB	2.53	0.87
4:D:95:ARG:NH1	10:O:531:GLN:NE2	2.23	0.87
5:E:148:SER:HB2	5:E:210:LYS:HG3	1.55	0.87
5:E:315:ILE:HG22	8:H:207:LEU:HD11	0.89	0.87
7:G:195:ALA:HB2	8:H:201:THR:HG23	1.53	0.87
10:O:291:LYS:HD3	10:O:357:VAL:HG21	1.56	0.87
1:A:84:LEU:HD22	1:A:87:TYR:HB2	1.57	0.87
10:O:50:PRO:HB2	10:O:51:GLU:N	1.88	0.87
1:A:370:TYR:CE2	2:B:394:LEU:HD11	2.10	0.87
4:D:95:ARG:NH1	10:O:531:GLN:HE21	1.66	0.87
5:E:318:LEU:CD2	6:F:286:VAL:CB	2.39	0.87
10:O:6:ARG:CB	10:O:52:PRO:HD2	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:694:LEU:HD21	10:O:699:LEU:CD2	2.04	0.87
2:B:89:MET:HG2	2:B:93:LYS:HE3	1.55	0.87
2:B:143:LYS:HE3	10:O:408:GLU:CA	2.03	0.87
7:G:97:LYS:HG2	7:G:120:LEU:HD22	1.55	0.87
7:G:199:LYS:HG2	8:H:209:ASN:O	1.73	0.87
9:N:115:ILE:HG12	9:N:133:LYS:HE2	1.54	0.87
10:O:10:PHE:HB2	10:O:53:LEU:HA	1.56	0.87
10:O:624:ASN:HB2	10:O:639:SER:HB2	1.54	0.87
2:B:19:GLU:HA	10:O:652:LYS:CG	2.04	0.87
2:B:155:LEU:HD12	2:B:158:LEU:HD12	1.54	0.87
3:C:108:THR:HA	3:C:111:LEU:HD23	1.56	0.87
6:F:240:GLU:O	6:F:243:LYS:NZ	2.07	0.87
7:G:199:LYS:CE	8:H:208:GLU:HG2	2.04	0.87
10:O:144:LEU:HD13	10:O:194:TYR:HB3	1.55	0.87
10:O:285:ILE:HD13	10:O:294:MET:N	1.90	0.87
2:B:366:TYR:HH	4:D:340:SER:CB	1.88	0.87
3:C:279:VAL:HG21	3:C:295:VAL:HG23	1.55	0.87
4:D:317:ASN:HD22	7:G:145:LEU:CA	1.88	0.87
5:E:96:PHE:H	5:E:137:TYR:HB2	1.36	0.87
5:E:113:ALA:HA	9:N:129:ARG:CA	2.01	0.87
5:E:173:THR:HA	5:E:176:ILE:HD12	1.56	0.87
6:F:43:LEU:HD22	6:F:84:MET:HB3	1.57	0.87
6:F:171:VAL:HB	6:F:182:LEU:HD12	1.56	0.87
12:Q:86:MET:HE2	12:Q:87:SER:O	1.73	0.87
5:E:148:SER:O	5:E:152:VAL:N	2.08	0.87
7:G:199:LYS:CG	8:H:209:ASN:C	2.43	0.87
10:O:21:ILE:HD11	10:O:101:MET:HE1	1.56	0.87
10:O:250:CYS:CB	10:O:259:TYR:CZ	2.51	0.87
3:C:156:LYS:HE2	8:H:25:LEU:HD13	1.55	0.86
8:H:33:THR:HB	8:H:36:VAL:HB	1.57	0.86
10:O:571:LYS:HD3	10:O:642:MET:HA	1.55	0.86
11:P:34:ILE:CD1	12:Q:5:PHE:CE2	2.58	0.86
12:Q:23:ALA:HB1	12:Q:29:LEU:CG	2.05	0.86
1:A:441:THR:HA	1:A:444:ILE:HD12	1.57	0.86
2:B:46:ASP:HB3	2:B:48:LYS:HE2	1.56	0.86
2:B:441:LYS:HB2	6:F:306:VAL:HG21	1.56	0.86
3:C:85:ILE:HG22	3:C:126:GLN:HB2	1.56	0.86
3:C:85:ILE:HD13	3:C:127:ALA:HB3	1.57	0.86
4:D:404:MET:SD	6:F:161:THR:CB	2.63	0.86
5:E:316:HIS:CE1	8:H:207:LEU:HB3	2.08	0.86
6:F:246:GLU:HG2	7:G:167:LEU:HD23	0.87	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:267:LEU:HD22	7:G:177:TRP:CH2	2.09	0.86
9:N:101:MSE:HB3	9:N:117:ILE:HG13	1.56	0.86
10:O:100:TYR:CZ	12:Q:35:GLY:HA2	2.09	0.86
10:O:439:LEU:O	10:O:443:LEU:N	2.08	0.86
5:E:304:THR:OG1	6:F:300:ASN:HB2	1.74	0.86
6:F:114:GLN:HB2	9:N:132:GLU:O	1.74	0.86
11:P:93:PHE:HA	12:Q:51:SER:HB2	0.87	0.86
6:F:99:ILE:HA	6:F:141:GLN:HE22	1.40	0.86
10:O:392:ALA:O	10:O:396:ASP:N	2.08	0.86
2:B:317:ALA:HA	2:B:320:ASN:HB2	1.56	0.86
10:O:289:GLU:HG3	10:O:290:LYS:N	1.90	0.86
11:P:7:ILE:HD13	11:P:27:LEU:HD11	1.57	0.86
2:B:157:LYS:HA	2:B:160:LEU:HG	1.57	0.86
2:B:414:GLN:C	2:B:415:LYS:CA	2.44	0.86
3:C:30:LYS:HB3	3:C:99:THR:HG22	1.58	0.86
10:O:47:VAL:HG22	10:O:49:TYR:HD1	1.04	0.86
2:B:29:ASN:O	2:B:31:ASP:N	2.09	0.86
10:O:222:GLU:OE2	10:O:242:ARG:NH1	2.09	0.86
4:D:377:LEU:HD12	6:F:263:LEU:HD13	1.56	0.86
5:E:246:TRP:HA	6:F:224:GLN:HA	1.57	0.86
10:O:381:PRO:O	10:O:382:LYS:CE	2.24	0.86
10:O:551:ARG:HB3	13:R:32:LEU:HD13	1.34	0.86
10:O:676:ARG:NH2	10:O:710:ARG:HB3	1.89	0.86
1:A:352:PHE:O	1:A:356:LEU:N	2.09	0.86
2:B:28:PRO:C	10:O:648:ARG:HH11	1.77	0.86
8:H:77:VAL:HG22	8:H:92:THR:HB	1.57	0.86
9:N:136:ILE:HG13	9:N:175:GLY:O	1.75	0.86
10:O:279:HIS:O	10:O:310:HIS:HB2	1.74	0.86
2:B:428:THR:O	2:B:431:LEU:HB2	1.76	0.86
6:F:114:GLN:HG3	9:N:133:LYS:N	1.91	0.86
9:N:142:ARG:HD3	10:O:743:TYR:CE2	2.10	0.86
10:O:10:PHE:CB	10:O:56:ARG:HE	1.53	0.86
10:O:188:PHE:CE2	10:O:207:PHE:CD1	2.64	0.86
10:O:385:CYS:O	10:O:389:GLU:N	2.09	0.86
10:O:657:MET:CA	10:O:659:LYS:HZ2	1.88	0.86
3:C:32:GLY:HA2	3:C:42:LEU:HD13	1.56	0.85
3:C:192:TYR:HD1	3:C:197:ASN:HB3	1.41	0.85
4:D:395:TRP:CB	6:F:241:TYR:CD1	2.58	0.85
5:E:242:TRP:CE2	6:F:225:HIS:N	2.42	0.85
5:E:255:LEU:HD11	5:E:318:LEU:HA	1.58	0.85
10:O:57:LEU:HD21	10:O:108:LEU:HD11	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:552:LYS:H	13:R:32:LEU:HD12	1.09	0.85
1:A:105:ASP:O	1:A:111:ARG:NH2	2.09	0.85
10:O:24:VAL:HG11	10:O:30:VAL:HG12	0.86	0.85
10:O:101:MET:HE2	10:O:139:ILE:HD11	1.56	0.85
10:O:567:ASN:CB	13:R:22:PHE:N	2.36	0.85
10:O:676:ARG:HD2	10:O:710:ARG:NH2	1.82	0.85
3:C:138:LEU:HB2	3:C:169:ILE:HG13	1.59	0.85
4:D:95:ARG:HH11	10:O:531:GLN:HE21	1.20	0.85
5:E:312:ILE:CG1	8:H:207:LEU:HA	2.03	0.85
6:F:114:GLN:HB2	9:N:132:GLU:CA	2.03	0.85
6:F:267:LEU:CD2	7:G:177:TRP:HH2	1.88	0.85
10:O:390:LEU:O	10:O:394:TYR:N	2.07	0.85
12:Q:7:THR:HG23	12:Q:44:ILE:H	1.41	0.85
13:R:82:HIS:HA	13:R:85:SER:HB2	1.57	0.85
4:D:318:ASN:CB	4:D:361:PHE:CD1	2.59	0.85
4:D:359:VAL:C	4:D:360:HIS:CA	2.44	0.85
5:E:144:GLY:HA2	5:E:171:ASP:HA	1.58	0.85
11:P:3:VAL:HA	11:P:64:SER:HA	1.58	0.85
1:A:76:ASP:C	1:A:106:HIS:HB3	1.96	0.85
9:N:169:LEU:C	10:O:691:ARG:HA	1.96	0.85
10:O:211:PHE:HD2	10:O:262:VAL:HG11	1.06	0.85
12:Q:7:THR:O	12:Q:44:ILE:CG2	2.24	0.85
2:B:19:GLU:HA	10:O:652:LYS:HG3	1.57	0.85
5:E:59:ALA:HB3	6:F:46:LEU:HB2	1.57	0.85
7:G:188:ILE:CG1	8:H:197:LEU:HD13	1.94	0.85
10:O:100:TYR:CG	12:Q:34:GLU:OE1	2.04	0.85
10:O:219:TYR:OH	10:O:246:GLU:OE1	1.93	0.85
10:O:376:VAL:O	10:O:384:VAL:HG11	1.76	0.85
10:O:537:VAL:HA	10:O:553:LEU:HG	1.59	0.85
10:O:614:ILE:HG22	10:O:628:GLU:HG2	1.58	0.85
2:B:424:LEU:HD22	5:E:266:VAL:CG1	2.07	0.85
5:E:183:LEU:HD22	5:E:226:VAL:HG11	1.58	0.85
6:F:257:LEU:HD23	7:G:174:LEU:HD11	0.87	0.85
10:O:24:VAL:HG11	10:O:30:VAL:HG11	1.55	0.85
10:O:107:TYR:HB2	12:Q:98:SER:OG	1.76	0.85
10:O:257:SER:HB3	10:O:261:LYS:HE3	1.57	0.85
10:O:336:PRO:HD3	10:O:390:LEU:CD2	2.07	0.85
1:A:368:LYS:HD2	1:A:371:GLU:HB2	1.59	0.85
4:D:317:ASN:HB3	4:D:361:PHE:CD2	2.11	0.85
5:E:77:VAL:HG21	5:E:97:ALA:HB1	1.57	0.85
5:E:244:LYS:CG	6:F:230:MET:CG	2.53	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:416:THR:HA	10:O:419:ILE:HD12	1.57	0.85
10:O:567:ASN:CB	13:R:21:ARG:N	2.31	0.85
10:O:676:ARG:NH2	10:O:710:ARG:NE	2.25	0.85
10:O:457:MET:HA	10:O:460:LYS:HD2	1.59	0.85
3:C:111:LEU:HD12	3:C:112:VAL:HG23	1.58	0.85
5:E:244:LYS:HD2	6:F:230:MET:HB3	1.58	0.85
6:F:39:VAL:HB	6:F:76:GLN:HB2	1.59	0.85
10:O:551:ARG:O	13:R:33:TRP:HZ2	1.58	0.85
11:P:34:ILE:HG23	12:Q:5:PHE:HD2	1.32	0.85
3:C:117:PRO:HG2	3:C:121:ILE:HD11	1.57	0.84
5:E:243:ASN:HB3	6:F:230:MET:CE	2.05	0.84
6:F:310:ASN:HA	6:F:314:ASP:HB3	1.57	0.84
10:O:16:LYS:HZ2	10:O:39:PHE:N	1.68	0.84
11:P:27:LEU:HD12	11:P:44:LEU:HD11	1.59	0.84
1:A:353:LYS:HA	1:A:356:LEU:HD22	1.58	0.84
2:B:194:LEU:HA	2:B:197:ILE:HD12	1.59	0.84
2:B:427:TRP:HE1	5:E:270:SER:CB	1.89	0.84
10:O:203:TYR:CE2	10:O:208:GLU:HB2	2.11	0.84
10:O:387:ALA:O	10:O:391:LEU:N	2.09	0.84
10:O:452:ASP:HA	10:O:455:GLU:HG2	1.59	0.84
12:Q:15:GLU:HB3	12:Q:45:GLU:HB2	1.57	0.84
3:C:389:ARG:HH21	3:C:392:ALA:HB2	1.41	0.84
10:O:16:LYS:HZ2	10:O:38:ARG:C	1.75	0.84
10:O:681:GLN:NE2	10:O:728:LYS:NZ	2.26	0.84
10:O:684:ILE:HG22	10:O:725:LEU:CD1	2.07	0.84
1:A:388:LEU:HB2	1:A:394:LEU:HB3	1.58	0.84
5:E:77:VAL:HG12	5:E:100:VAL:HG22	1.58	0.84
6:F:270:LEU:CD1	6:F:272:THR:OG1	2.24	0.84
10:O:100:TYR:CE1	12:Q:35:GLY:HA2	2.12	0.84
10:O:236:MET:CE	10:O:300:LEU:HD12	2.07	0.84
10:O:537:VAL:HG23	10:O:553:LEU:HB3	1.57	0.84
10:O:676:ARG:HE	10:O:710:ARG:HE	0.84	0.84
1:A:501:HIS:HB2	3:C:212:PRO:HB2	1.59	0.84
2:B:367:THR:HA	2:B:411:LEU:HB2	1.59	0.84
6:F:215:SER:HB2	7:G:200:GLU:CD	1.97	0.84
9:N:144:ILE:HA	9:N:149:GLN:HA	1.60	0.84
10:O:412:GLU:HG2	10:O:415:LEU:HD12	1.57	0.84
2:B:105:ARG:NH1	10:O:401:LYS:CG	2.39	0.84
3:C:90:GLY:HA3	3:C:93:ILE:HD11	1.57	0.84
3:C:381:LEU:HD23	3:C:384:ILE:HD12	1.58	0.84
5:E:115:GLU:O	9:N:133:LYS:HG2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:316:HIS:HE1	8:H:207:LEU:HB3	1.42	0.84
9:N:144:ILE:HG13	9:N:149:GLN:HG2	1.57	0.84
10:O:610:LEU:HD12	10:O:613:THR:HB	1.57	0.84
12:Q:86:MET:SD	12:Q:90:LEU:HB3	2.18	0.84
3:C:145:LEU:HA	3:C:148:LEU:HD12	1.59	0.84
4:D:318:ASN:OD1	4:D:361:PHE:CE1	2.29	0.84
4:D:380:GLN:NE2	7:G:156:PHE:CE1	2.45	0.84
10:O:219:TYR:CZ	10:O:246:GLU:OE1	2.30	0.84
10:O:226:LEU:O	10:O:230:SER:HB2	1.77	0.84
11:P:34:ILE:HD13	12:Q:5:PHE:CZ	2.13	0.84
11:P:45:TYR:HB2	11:P:76:GLY:HA3	1.58	0.84
12:Q:5:PHE:O	12:Q:42:GLY:HA2	1.77	0.84
1:A:342:LEU:HA	1:A:345:ASN:HB2	1.59	0.84
2:B:258:PHE:HB3	2:B:280:LEU:HD22	1.60	0.84
3:C:101:ALA:HA	3:C:105:HIS:HD2	1.40	0.84
4:D:297:SER:O	4:D:302:ARG:NH1	2.11	0.84
5:E:113:ALA:CA	9:N:129:ARG:HA	2.08	0.84
1:A:327:ILE:HG12	1:A:362:VAL:HG21	1.58	0.84
1:A:486:ALA:HB1	3:C:386:LEU:HD11	1.59	0.84
5:E:55:CYS:HB3	5:E:226:VAL:HG22	1.58	0.84
5:E:319:MET:HE3	8:H:207:LEU:HD12	0.86	0.84
6:F:267:LEU:HD21	7:G:177:TRP:CZ3	2.13	0.84
10:O:203:TYR:CE2	10:O:208:GLU:CD	2.47	0.84
10:O:550:GLY:HA3	13:R:35:TRP:C	1.98	0.84
11:P:35:LEU:HD22	12:Q:43:ARG:CD	2.04	0.84
1:A:419:SER:HA	1:A:461:TYR:HA	1.59	0.84
1:A:482:PHE:HE1	2:B:435:ASN:ND2	1.71	0.84
3:C:97:THR:HA	3:C:100:PHE:HB3	1.57	0.84
4:D:318:ASN:OD1	4:D:361:PHE:HE1	1.59	0.84
5:E:80:LEU:HD11	5:E:133:ALA:HB1	1.59	0.84
10:O:35:TRP:CZ2	12:Q:35:GLY:N	2.46	0.84
10:O:107:TYR:CD2	12:Q:96:TYR:N	2.35	0.84
10:O:231:ASN:O	10:O:234:GLN:HB2	1.77	0.84
13:R:57:GLN:HA	13:R:60:GLN:HG3	1.58	0.84
3:C:93:ILE:HB	3:C:131:MET:HA	1.60	0.83
6:F:202:HIS:O	6:F:206:MET:N	2.11	0.83
10:O:211:PHE:HD2	10:O:262:VAL:CG1	1.57	0.83
10:O:693:VAL:C	10:O:699:LEU:CD2	2.45	0.83
2:B:58:LEU:HD22	2:B:91:ARG:HH12	1.43	0.83
10:O:208:GLU:CD	10:O:258:SER:CA	2.37	0.83
10:O:339:PHE:CD2	10:O:387:ALA:CA	2.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:ASP:N	1:A:106:HIS:CD2	2.43	0.83
2:B:31:ASP:OD2	10:O:648:ARG:NH1	2.11	0.83
2:B:443:ALA:CB	3:C:244:TYR:HD2	1.92	0.83
4:D:370:TRP:CZ3	6:F:275:PHE:CE1	2.66	0.83
5:E:115:GLU:HB2	9:N:129:ARG:O	1.76	0.83
10:O:336:PRO:CG	10:O:390:LEU:HD22	2.06	0.83
10:O:719:LYS:O	10:O:723:GLU:HG2	1.78	0.83
1:A:119:LEU:HD11	1:A:131:TYR:HA	1.61	0.83
3:C:31:SER:HA	3:C:77:LEU:HD23	1.59	0.83
5:E:60:LEU:HA	5:E:63:LEU:HD12	1.59	0.83
10:O:189:VAL:CG2	10:O:255:HIS:CE1	2.61	0.83
10:O:344:LEU:HD21	10:O:421:VAL:HG22	1.54	0.83
10:O:544:TYR:O	10:O:548:PHE:N	2.10	0.83
10:O:617:LEU:HB3	10:O:623:ILE:HB	1.60	0.83
12:Q:15:GLU:HG2	12:Q:45:GLU:CG	2.09	0.83
4:D:395:TRP:NE1	6:F:250:VAL:HG23	1.92	0.83
10:O:35:TRP:CB	10:O:104:LEU:HD13	2.02	0.83
10:O:219:TYR:O	10:O:270:MET:HE1	1.78	0.83
3:C:317:LEU:HD23	3:C:322:MET:HB2	1.58	0.83
4:D:168:ILE:O	4:D:187:TYR:OH	1.97	0.83
6:F:252:PHE:HE1	7:G:167:LEU:HD21	1.43	0.83
8:H:102:VAL:O	8:H:106:MET:N	2.11	0.83
10:O:461:LEU:O	10:O:465:CYS:N	2.11	0.83
10:O:676:ARG:NH2	10:O:710:ARG:CG	2.40	0.83
6:F:201:ASP:OD1	6:F:222:ILE:HG22	1.75	0.83
10:O:336:PRO:O	10:O:340:VAL:HB	1.78	0.83
2:B:143:LYS:HE2	10:O:407:THR:HG23	1.58	0.83
2:B:314:LEU:HD22	2:B:326:PHE:HA	1.61	0.83
4:D:387:LYS:NZ	6:F:253:ASN:HD22	1.75	0.83
6:F:151:PHE:HB3	6:F:168:PHE:HB2	1.59	0.83
10:O:344:LEU:CD2	10:O:421:VAL:HG21	1.97	0.83
10:O:676:ARG:CZ	10:O:710:ARG:NE	2.39	0.83
12:Q:83:PRO:CA	12:Q:84:THR:HG23	1.87	0.83
1:A:437:GLU:HA	1:A:440:LEU:HD12	1.59	0.83
6:F:257:LEU:HD23	6:F:260:ALA:HB3	1.34	0.83
6:F:291:TYR:O	6:F:294:THR:OG1	1.96	0.83
8:H:123:GLN:HA	8:H:166:LYS:HE3	1.59	0.83
10:O:271:VAL:HB	10:O:304:VAL:HG22	0.87	0.83
4:D:365:GLU:O	6:F:270:LEU:HD11	1.78	0.82
5:E:107:VAL:O	9:N:122:LYS:N	2.12	0.82
10:O:47:VAL:CG2	10:O:49:TYR:HE1	1.89	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:50:PRO:CB	10:O:51:GLU:N	2.42	0.82
12:Q:6:VAL:HG11	12:Q:29:LEU:CG	2.08	0.82
5:E:242:TRP:CG	6:F:222:ILE:O	2.32	0.82
6:F:201:ASP:OD2	6:F:219:GLU:HA	1.79	0.82
7:G:195:ALA:HB2	8:H:201:THR:CG2	2.05	0.82
13:R:80:HIS:O	13:R:84:ILE:N	2.10	0.82
2:B:112:ILE:HA	2:B:115:ILE:HD12	1.61	0.82
5:E:82:LEU:H	5:E:94:ASP:HB3	1.44	0.82
5:E:118:ALA:HB3	9:N:133:LYS:HZ2	1.44	0.82
11:P:34:ILE:CG2	12:Q:5:PHE:CE2	2.60	0.82
2:B:399:HIS:HB3	2:B:412:ASP:HB3	1.60	0.82
6:F:252:PHE:CE1	7:G:167:LEU:CD2	2.63	0.82
10:O:16:LYS:NZ	10:O:36:ASN:O	2.11	0.82
10:O:379:ARG:NH1	10:O:384:VAL:HG13	1.93	0.82
10:O:564:VAL:HB	13:R:22:PHE:CE1	2.13	0.82
4:D:317:ASN:ND2	7:G:144:LYS:HB2	1.94	0.82
1:A:478:MET:CE	6:F:288:LEU:HD11	2.08	0.82
4:D:369:THR:HA	4:D:372:LYS:HD2	1.62	0.82
4:D:395:TRP:NE1	6:F:250:VAL:CG2	2.43	0.82
8:H:122:SER:HB2	8:H:164:PRO:HB3	1.61	0.82
10:O:202:PHE:O	10:O:206:ILE:CB	2.27	0.82
10:O:472:LYS:HD2	10:O:513:GLN:H	1.41	0.82
5:E:314:ALA:CB	6:F:289:MET:SD	2.67	0.82
9:N:142:ARG:HH12	10:O:689:LYS:HG3	1.41	0.82
10:O:24:VAL:CG1	10:O:30:VAL:HG11	2.06	0.82
10:O:574:VAL:CG1	13:R:25:LYS:HZ3	1.92	0.82
10:O:700:ILE:HD12	10:O:718:ILE:CB	2.08	0.82
1:A:306:LEU:HD13	1:A:329:GLY:HA2	1.61	0.82
3:C:85:ILE:HG23	3:C:127:ALA:H	1.42	0.82
5:E:118:ALA:CB	9:N:133:LYS:NZ	2.42	0.82
9:N:108:LEU:HD22	9:N:170:VAL:HG11	1.57	0.82
10:O:10:PHE:N	10:O:56:ARG:NH1	2.27	0.82
10:O:211:PHE:CZ	10:O:259:TYR:CD2	2.61	0.82
10:O:381:PRO:CB	10:O:383:SER:H	1.93	0.82
10:O:612:LYS:CG	10:O:657:MET:HG2	2.09	0.82
1:A:301:GLN:HA	1:A:304:LYS:HD2	1.60	0.82
1:A:324:ASN:O	1:A:328:TYR:HB3	1.80	0.82
2:B:28:PRO:CB	10:O:648:ARG:HG2	2.08	0.82
6:F:254:HIS:HB3	7:G:162:ILE:HD12	1.60	0.82
10:O:21:ILE:CG1	10:O:101:MET:CE	2.57	0.82
10:O:122:ASP:HA	10:O:129:GLY:HA3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:188:PHE:HD2	10:O:207:PHE:CB	1.93	0.82
10:O:203:TYR:CD2	10:O:208:GLU:HB2	2.14	0.82
10:O:350:PHE:CB	10:O:368:LEU:HD21	2.09	0.82
10:O:689:LYS:HG3	10:O:743:TYR:OH	1.78	0.82
12:Q:74:ASP:CA	15:Q:106:HOH:O	2.26	0.82
4:D:317:ASN:CG	7:G:144:LYS:HB2	1.98	0.82
4:D:373:GLN:CD	7:G:155:ASP:O	2.18	0.82
9:N:102:LEU:HD11	9:N:114:GLU:HG2	1.61	0.82
10:O:388:PRO:HA	10:O:391:LEU:HB2	1.62	0.82
10:O:409:ASN:HA	10:O:412:GLU:HB2	1.61	0.82
10:O:722:ILE:HG21	10:O:741:TYR:CE2	2.15	0.82
4:D:316:TYR:HE1	7:G:145:LEU:HG	0.80	0.81
9:N:144:ILE:HD13	10:O:690:ALA:N	1.95	0.81
10:O:4:LYS:HD2	10:O:49:TYR:O	1.78	0.81
12:Q:9:VAL:CG2	12:Q:45:GLU:OE1	2.28	0.81
12:Q:52:HIS:ND1	15:Q:104:HOH:O	2.11	0.81
2:B:25:ASN:O	10:O:647:LYS:CG	2.27	0.81
2:B:260:GLU:HA	2:B:263:LYS:HD3	1.61	0.81
6:F:273:ASP:HA	6:F:276:LYS:HD2	1.61	0.81
7:G:165:LYS:HE2	7:G:167:LEU:HD13	1.61	0.81
7:G:203:LEU:CD1	8:H:209:ASN:HB3	2.03	0.81
10:O:212:LEU:C	10:O:265:GLU:CD	2.34	0.81
11:P:81:ALA:HB3	11:P:84:THR:HG22	1.61	0.81
2:B:105:ARG:NE	10:O:401:LYS:HZ3	1.77	0.81
3:C:110:ALA:HA	3:C:113:GLU:HB3	1.60	0.81
6:F:117:LYS:NZ	9:N:135:GLY:O	2.12	0.81
6:F:239:LEU:HD11	7:G:175:GLN:HB2	1.62	0.81
8:H:60:ILE:HB	8:H:65:LYS:HE3	1.60	0.81
10:O:38:ARG:NH2	10:O:101:MET:HE2	1.94	0.81
10:O:185:ILE:HG13	10:O:207:PHE:CD1	2.15	0.81
10:O:357:VAL:O	10:O:358:LEU:O	1.93	0.81
10:O:551:ARG:HD3	13:R:34:ALA:HB2	1.60	0.81
10:O:657:MET:CA	10:O:659:LYS:NZ	2.43	0.81
10:O:660:ASP:HA	10:O:663:GLN:HB3	1.62	0.81
10:O:700:ILE:HG21	10:O:718:ILE:HD12	1.60	0.81
12:Q:23:ALA:HB1	12:Q:29:LEU:CB	2.08	0.81
2:B:330:LEU:HD23	2:B:333:ASN:HD22	1.45	0.81
4:D:377:LEU:HD12	6:F:263:LEU:CD1	2.05	0.81
7:G:116:LEU:HD12	7:G:120:LEU:HD12	1.62	0.81
10:O:47:VAL:CG2	10:O:49:TYR:HD1	1.85	0.81
1:A:477:LEU:HA	1:A:480:LYS:HZ2	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:105:ARG:NH1	10:O:401:LYS:CE	2.43	0.81
2:B:330:LEU:HD13	2:B:347:ILE:HD11	1.61	0.81
2:B:427:TRP:CE2	5:E:266:VAL:O	2.34	0.81
4:D:95:ARG:NH2	10:O:529:ILE:O	2.13	0.81
5:E:304:THR:CB	6:F:300:ASN:CB	2.53	0.81
9:N:104:LYS:HE2	9:N:164:GLY:HA2	1.62	0.81
10:O:65:LEU:HD13	10:O:142:LEU:HD23	1.63	0.81
10:O:211:PHE:O	10:O:262:VAL:CG2	2.29	0.81
10:O:227:LEU:HD13	10:O:235:TYR:HD1	1.00	0.81
11:P:93:PHE:CA	12:Q:51:SER:CB	2.47	0.81
2:B:333:ASN:HB3	2:B:337:ILE:HB	1.62	0.81
4:D:95:ARG:HH11	10:O:531:GLN:NE2	1.79	0.81
4:D:364:ARG:O	4:D:365:GLU:N	2.14	0.81
10:O:100:TYR:CE2	12:Q:35:GLY:HA2	2.16	0.81
5:E:114:TYR:CB	9:N:129:ARG:HH12	1.89	0.81
5:E:176:ILE:HA	6:F:194:GLU:HG2	1.63	0.81
7:G:199:LYS:HE2	8:H:209:ASN:O	1.81	0.81
10:O:22:LYS:N	10:O:68:HIS:CA	2.43	0.81
10:O:144:LEU:CD1	10:O:194:TYR:HB3	2.10	0.81
10:O:211:PHE:HE2	10:O:259:TYR:CD2	1.76	0.81
2:B:195:LEU:H	2:B:228:ILE:HD11	1.45	0.81
5:E:98:LEU:HB3	5:E:100:VAL:HG13	1.62	0.81
10:O:233:SER:O	10:O:234:GLN:OE1	1.93	0.81
10:O:612:LYS:CG	10:O:657:MET:CG	2.59	0.81
11:P:24:VAL:HB	11:P:53:ASP:HA	1.60	0.81
1:A:362:VAL:HA	1:A:365:ILE:HD12	1.63	0.81
2:B:125:MET:HG3	2:B:158:LEU:HD13	1.63	0.81
4:D:403:GLN:HB2	6:F:237:LEU:HD21	1.60	0.81
5:E:106:ARG:HH21	9:N:124:GLU:HG3	1.42	0.81
5:E:318:LEU:HD11	6:F:282:GLN:HG3	1.63	0.81
2:B:105:ARG:CZ	10:O:401:LYS:HZ3	1.94	0.81
3:C:104:CYS:O	3:C:108:THR:N	2.14	0.81
5:E:240:LEU:HB2	6:F:163:LEU:HD13	1.63	0.81
5:E:319:MET:CE	8:H:203:TYR:CB	2.54	0.81
5:E:327:LEU:CD2	7:G:185:LEU:HD22	2.09	0.81
10:O:16:LYS:HZ3	10:O:39:PHE:N	1.78	0.81
4:D:392:ALA:O	4:D:396:THR:N	2.14	0.80
7:G:15:PHE:HE1	7:G:33:GLN:HG3	1.46	0.80
9:N:142:ARG:HD3	10:O:743:TYR:CD2	2.15	0.80
1:A:342:LEU:HD12	1:A:345:ASN:HB2	1.63	0.80
5:E:242:TRP:C	6:F:226:SER:CB	2.41	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:83:LEU:O	3:C:87:THR:N	2.12	0.80
4:D:317:ASN:O	4:D:361:PHE:CD1	2.32	0.80
12:Q:7:THR:HG23	12:Q:44:ILE:N	1.96	0.80
7:G:99:LEU:HA	7:G:160:ARG:HD2	1.63	0.80
1:A:258:VAL:HG13	1:A:285:LEU:HB3	1.62	0.80
2:B:443:ALA:CB	3:C:244:TYR:CB	2.56	0.80
10:O:17:LEU:HD21	10:O:64:PHE:H	0.64	0.80
10:O:117:LYS:HG2	10:O:120:GLU:HG2	1.62	0.80
10:O:208:GLU:OE1	10:O:258:SER:HA	1.81	0.80
10:O:211:PHE:HE2	10:O:262:VAL:CG1	1.90	0.80
10:O:395:CYS:HB3	10:O:399:LEU:HD12	1.62	0.80
10:O:427:ASP:O	10:O:431:PHE:N	2.14	0.80
11:P:93:PHE:HD1	12:Q:51:SER:CA	1.94	0.80
2:B:297:GLN:NE2	13:R:67:GLU:CB	2.43	0.80
3:C:45:VAL:HG13	3:C:48:ALA:HB3	1.62	0.80
5:E:78:MET:HE2	9:N:125:ARG:O	1.80	0.80
5:E:120:TYR:HA	6:F:111:GLN:HB3	1.63	0.80
6:F:231:LEU:HD12	6:F:234:ARG:HB2	1.63	0.80
6:F:243:LYS:NZ	6:F:243:LYS:HB2	1.96	0.80
10:O:16:LYS:NZ	10:O:40:SER:N	2.29	0.80
10:O:151:MET:HE3	10:O:191:VAL:CG2	2.07	0.80
10:O:236:MET:CE	10:O:300:LEU:CD1	2.60	0.80
10:O:283:HIS:CE1	10:O:317:ASN:HB2	2.16	0.80
12:Q:26:SER:N	12:Q:27:PRO:N	2.22	0.80
1:A:97:ILE:HG23	1:A:118:ALA:HB1	1.64	0.80
1:A:404:GLN:OE1	1:A:408:ARG:NH1	2.15	0.80
1:A:424:ARG:NH1	1:A:424:ARG:O	2.13	0.80
5:E:315:ILE:CD1	8:H:207:LEU:CD2	2.51	0.80
10:O:7:VAL:HG22	10:O:52:PRO:CG	2.12	0.80
11:P:35:LEU:HD21	12:Q:43:ARG:NH1	1.96	0.80
2:B:386:GLU:HA	2:B:389:LEU:HD12	1.63	0.80
5:E:188:THR:HG22	5:E:221:TYR:HB3	1.62	0.80
7:G:71:ALA:HA	7:G:163:ARG:HA	1.63	0.80
9:N:142:ARG:CD	10:O:743:TYR:HE2	1.93	0.80
10:O:323:GLY:O	10:O:327:THR:CB	2.29	0.80
10:O:660:ASP:CA	10:O:663:GLN:HB3	2.10	0.80
12:Q:9:VAL:HG22	12:Q:45:GLU:OE1	1.82	0.80
5:E:246:TRP:CB	6:F:228:ILE:HG13	2.12	0.80
10:O:14:TRP:CD1	10:O:60:GLU:CB	2.62	0.80
10:O:212:LEU:HA	10:O:262:VAL:HG23	0.80	0.80
10:O:660:ASP:HA	10:O:663:GLN:CB	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:685:VAL:HG22	10:O:725:LEU:CD2	2.11	0.80
10:O:688:MET:CE	10:O:725:LEU:CD1	2.49	0.80
12:Q:66:LYS:CB	15:Q:114:HOH:O	1.92	0.80
3:C:125:LYS:HA	3:C:128:ILE:HD12	1.62	0.80
4:D:317:ASN:OD1	7:G:144:LYS:HB3	1.73	0.80
5:E:53:LYS:O	5:E:225:GLU:N	2.10	0.80
5:E:245:TYR:HE1	6:F:192:THR:HG22	1.46	0.80
10:O:16:LYS:CG	10:O:37:ASP:OD1	2.30	0.80
10:O:185:ILE:CG1	10:O:207:PHE:CZ	2.65	0.80
10:O:189:VAL:CG2	10:O:255:HIS:HE1	1.95	0.80
10:O:350:PHE:HB3	10:O:368:LEU:CD2	2.12	0.80
10:O:612:LYS:HG2	10:O:657:MET:HG2	1.63	0.80
12:Q:3:GLN:O	15:Q:103:HOH:O	1.98	0.80
13:R:44:ILE:HG23	13:R:87:TRP:HB2	1.64	0.80
3:C:149:CYS:O	8:H:55:TYR:OH	2.00	0.79
6:F:243:LYS:HG3	7:G:172:ARG:NH2	1.96	0.79
10:O:171:ARG:HB3	10:O:249:ARG:HH12	1.47	0.79
10:O:567:ASN:HB2	13:R:20:LYS:HA	1.62	0.79
11:P:7:ILE:HA	11:P:75:VAL:HB	1.64	0.79
2:B:427:TRP:CD2	5:E:266:VAL:CG1	2.63	0.79
5:E:243:ASN:HB2	6:F:230:MET:CE	2.07	0.79
6:F:43:LEU:HB3	6:F:84:MET:HE2	1.63	0.79
10:O:429:ASP:HA	10:O:432:GLN:HG2	1.64	0.79
10:O:501:ILE:CG1	13:R:24:VAL:O	2.29	0.79
11:P:93:PHE:CG	12:Q:51:SER:CB	2.65	0.79
13:R:84:ILE:HD13	13:R:102:GLU:H	1.45	0.79
2:B:28:PRO:C	2:B:31:ASP:OD1	2.19	0.79
4:D:95:ARG:CG	10:O:531:GLN:OE1	2.21	0.79
10:O:513:GLN:HE22	13:R:34:ALA:HB2	1.47	0.79
1:A:293:GLU:OE1	1:A:302:ALA:N	2.15	0.79
4:D:155:TYR:O	4:D:159:ASP:N	2.15	0.79
4:D:365:GLU:HA	6:F:274:LYS:HZ1	1.41	0.79
5:E:37:GLN:HA	5:E:40:LEU:HD12	1.65	0.79
10:O:50:PRO:HG3	10:O:53:LEU:HB2	1.65	0.79
10:O:268:GLN:O	10:O:272:ALA:CB	2.29	0.79
10:O:279:HIS:CB	10:O:307:GLY:HA2	2.13	0.79
10:O:376:VAL:O	10:O:426:ASP:OD2	2.00	0.79
10:O:398:LEU:HD21	10:O:404:LYS:HE2	1.64	0.79
10:O:486:LEU:HD23	10:O:489:LYS:HD2	1.64	0.79
3:C:136:ASN:HD22	3:C:164:VAL:HG21	1.47	0.79
3:C:348:PHE:HB3	3:C:361:HIS:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:312:ILE:CA	8:H:207:LEU:HD22	2.04	0.79
10:O:45:LEU:O	10:O:53:LEU:HB3	1.83	0.79
10:O:50:PRO:CA	10:O:51:GLU:N	2.46	0.79
11:P:3:VAL:HG11	11:P:62:PHE:HB3	1.62	0.79
13:R:99:ARG:NH1	13:R:100:GLU:O	2.15	0.79
2:B:297:GLN:NE2	13:R:70:VAL:HB	1.97	0.79
3:C:398:THR:HG22	7:G:213:VAL:HG11	0.79	0.79
5:E:77:VAL:HB	5:E:98:LEU:HB2	1.64	0.79
6:F:252:PHE:CE1	7:G:167:LEU:HD21	2.18	0.79
7:G:110:CYS:HB2	7:G:151:LEU:HD13	1.64	0.79
9:N:170:VAL:C	10:O:692:LYS:N	2.33	0.79
10:O:10:PHE:HB2	10:O:56:ARG:CZ	2.11	0.79
10:O:226:LEU:CD1	10:O:242:ARG:HE	1.95	0.79
10:O:544:TYR:OH	10:O:551:ARG:O	2.00	0.79
12:Q:26:SER:C	12:Q:27:PRO:CG	2.50	0.79
1:A:341:GLU:OE1	1:A:345:ASN:ND2	2.14	0.79
4:D:238:ALA:O	4:D:347:ARG:NH1	2.15	0.79
5:E:118:ALA:HB3	9:N:133:LYS:NZ	1.98	0.79
6:F:257:LEU:HD21	7:G:174:LEU:HD11	1.06	0.79
10:O:211:PHE:CG	10:O:259:TYR:HB2	2.18	0.79
10:O:226:LEU:O	10:O:230:SER:CB	2.31	0.79
10:O:254:LEU:HD12	10:O:256:PRO:HD3	1.62	0.79
10:O:392:ALA:O	10:O:395:CYS:HB2	1.82	0.79
10:O:574:VAL:CG1	13:R:25:LYS:NZ	2.45	0.79
13:R:84:ILE:HG12	13:R:101:TRP:HA	1.63	0.79
1:A:468:ARG:NH2	6:F:281:ASP:OD1	2.16	0.79
4:D:82:LYS:NZ	4:D:117:GLU:OE1	2.14	0.79
4:D:223:LEU:HD11	4:D:258:LEU:HD11	1.63	0.79
10:O:219:TYR:O	10:O:270:MET:CE	2.30	0.79
10:O:250:CYS:CA	10:O:259:TYR:OH	2.31	0.79
10:O:323:GLY:O	10:O:327:THR:HB	1.81	0.79
10:O:676:ARG:HH21	10:O:710:ARG:NE	1.80	0.79
11:P:94:SER:H	12:Q:51:SER:N	1.81	0.79
3:C:94:ARG:HH21	3:C:170:CYS:HB3	1.48	0.79
10:O:16:LYS:CD	10:O:41:ASP:H	1.95	0.79
10:O:202:PHE:CD1	10:O:206:ILE:CD1	2.65	0.79
10:O:298:TYR:HA	10:O:308:LEU:CD2	2.08	0.79
10:O:379:ARG:HG2	10:O:381:PRO:HD2	1.65	0.79
10:O:696:HIS:CB	10:O:739:ASP:HA	2.12	0.79
1:A:320:LEU:HB3	1:A:325:VAL:HG22	1.64	0.79
1:A:478:MET:HE2	6:F:288:LEU:HD11	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:LYS:HB3	6:F:306:VAL:HG11	1.63	0.79
3:C:326:VAL:HB	3:C:328:LEU:HD11	1.64	0.79
10:O:14:TRP:HD1	10:O:63:ILE:HD12	1.44	0.79
10:O:185:ILE:CG1	10:O:207:PHE:CE1	2.66	0.79
10:O:222:GLU:CD	10:O:242:ARG:CZ	2.51	0.79
10:O:567:ASN:CG	13:R:22:PHE:N	2.37	0.79
1:A:175:LEU:HD12	1:A:178:LEU:HD22	1.65	0.78
1:A:183:THR:O	15:A:601:HOH:O	2.01	0.78
3:C:202:LEU:HD13	3:C:230:VAL:HB	1.63	0.78
3:C:210:THR:HA	3:C:245:THR:HA	1.64	0.78
5:E:238:LEU:HD22	6:F:200:VAL:HG13	1.65	0.78
7:G:42:VAL:HG23	7:G:161:ASP:HB3	1.66	0.78
10:O:35:TRP:HZ2	12:Q:35:GLY:N	1.79	0.78
12:Q:15:GLU:CD	12:Q:45:GLU:HG2	2.02	0.78
1:A:322:PRO:HA	1:A:325:VAL:HB	1.65	0.78
2:B:17:ASP:CB	2:B:64:LYS:CD	2.61	0.78
2:B:85:PHE:HZ	2:B:123:LYS:HE2	1.48	0.78
2:B:143:LYS:HE2	10:O:407:THR:HG22	1.63	0.78
4:D:373:GLN:HA	4:D:376:SER:HB3	1.66	0.78
4:D:380:GLN:NE2	7:G:156:PHE:HD1	1.80	0.78
5:E:188:THR:HA	5:E:221:TYR:HA	1.65	0.78
6:F:258:ARG:HH11	7:G:159:GLY:HA3	0.98	0.78
8:H:28:PRO:HD3	8:H:32:ALA:HB2	1.65	0.78
9:N:101:MSE:N	9:N:117:ILE:O	2.14	0.78
10:O:381:PRO:CB	10:O:383:SER:N	2.43	0.78
11:P:76:GLY:HA2	11:P:88:LEU:HD22	1.65	0.78
1:A:320:LEU:HD23	1:A:325:VAL:HA	1.65	0.78
4:D:317:ASN:OD1	7:G:144:LYS:HD3	1.83	0.78
6:F:257:LEU:O	6:F:259:GLU:N	2.16	0.78
10:O:350:PHE:HA	10:O:353:LEU:HB3	1.65	0.78
2:B:381:ASP:O	2:B:385:VAL:N	2.15	0.78
3:C:125:LYS:HA	3:C:128:ILE:HB	1.63	0.78
5:E:136:TRP:NE1	5:E:166:VAL:O	2.16	0.78
6:F:243:LYS:H	6:F:243:LYS:CD	1.95	0.78
4:D:362:GLU:O	4:D:364:ARG:CG	2.31	0.78
4:D:395:TRP:CE2	6:F:250:VAL:HG23	2.16	0.78
5:E:255:LEU:HD13	6:F:282:GLN:HE22	1.45	0.78
6:F:193:GLU:HB3	6:F:196:GLU:HB3	1.66	0.78
6:F:217:VAL:HA	6:F:220:HIS:HB3	1.66	0.78
6:F:257:LEU:CD2	7:G:174:LEU:HD12	2.06	0.78
9:N:142:ARG:NH1	10:O:689:LYS:HG3	1.95	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:236:MET:CE	10:O:300:LEU:HB2	2.14	0.78
10:O:568:TYR:HB3	13:R:18:LYS:CG	2.13	0.78
11:P:93:PHE:CB	12:Q:51:SER:C	2.40	0.78
2:B:105:ARG:CG	10:O:401:LYS:NZ	2.46	0.78
4:D:318:ASN:N	4:D:361:PHE:CD1	2.45	0.78
5:E:123:ASN:HB2	6:F:111:GLN:HE22	1.48	0.78
5:E:158:ASN:O	5:E:162:GLN:N	2.17	0.78
5:E:331:ILE:H	6:F:268:PRO:HB3	1.48	0.78
6:F:70:GLY:HA3	6:F:125:TYR:CE1	2.18	0.78
8:H:195:GLN:O	8:H:199:ARG:NE	2.17	0.78
9:N:105:VAL:HG12	9:N:167:LEU:HD12	1.64	0.78
10:O:236:MET:HE3	10:O:300:LEU:CD1	2.12	0.78
10:O:407:THR:O	10:O:411:VAL:N	2.16	0.78
11:P:2:ASP:O	11:P:68:ARG:NH2	2.16	0.78
12:Q:7:THR:C	12:Q:45:GLU:CA	2.51	0.78
2:B:44:GLU:HG3	2:B:49:ALA:HB3	1.64	0.78
7:G:22:THR:HB	7:G:26:ALA:HB1	1.65	0.78
7:G:98:HIS:HE1	7:G:131:LEU:HD12	1.48	0.78
10:O:219:TYR:HE2	10:O:246:GLU:CG	1.96	0.78
10:O:506:SER:HB3	13:R:29:ALA:CA	2.14	0.78
10:O:633:ASP:HB3	10:O:635:GLU:HB3	1.65	0.78
2:B:143:LYS:CD	10:O:408:GLU:HB2	2.14	0.78
3:C:222:GLU:HA	3:C:225:LYS:HE3	1.65	0.78
3:C:391:LYS:HE3	6:F:297:LYS:CE	2.14	0.78
7:G:144:LYS:H	7:G:153:GLU:HB2	1.48	0.78
10:O:7:VAL:HG22	10:O:52:PRO:CB	2.14	0.78
10:O:16:LYS:HD2	10:O:41:ASP:N	1.99	0.78
10:O:16:LYS:CE	10:O:40:SER:OG	2.32	0.78
10:O:285:ILE:CG2	10:O:294:MET:HB2	2.12	0.78
10:O:312:ILE:HG13	10:O:364:PHE:HE1	0.72	0.78
10:O:688:MET:SD	10:O:725:LEU:HB3	2.24	0.78
11:P:64:SER:O	11:P:68:ARG:NE	2.16	0.78
12:Q:7:THR:C	12:Q:44:ILE:HG22	2.04	0.78
1:A:418:VAL:N	2:B:402:ILE:O	2.17	0.78
2:B:421:TYR:O	2:B:425:ASP:N	2.16	0.78
3:C:398:THR:CB	7:G:213:VAL:HG11	2.13	0.78
4:D:316:TYR:CE1	7:G:145:LEU:CD2	2.57	0.78
5:E:106:ARG:NH2	9:N:124:GLU:HG3	1.73	0.78
5:E:112:ALA:H	9:N:125:ARG:CG	1.97	0.78
9:N:123:VAL:HA	9:N:126:ILE:HB	1.65	0.78
10:O:203:TYR:CD2	10:O:208:GLU:OE1	2.37	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:694:LEU:HD11	10:O:699:LEU:HD23	1.66	0.78
1:A:343:GLN:O	1:A:347:ILE:N	2.17	0.78
5:E:269:LEU:HD11	5:E:307:SER:HB3	1.64	0.78
10:O:53:LEU:O	10:O:57:LEU:N	2.16	0.78
10:O:369:ASP:O	10:O:373:THR:OG1	1.99	0.78
10:O:439:LEU:HD21	10:O:443:LEU:HD13	1.65	0.78
11:P:4:PHE:CZ	12:Q:66:LYS:HD3	2.18	0.78
2:B:278:LYS:HE2	2:B:308:ILE:HB	1.66	0.77
10:O:271:VAL:CB	10:O:304:VAL:CG2	2.51	0.77
12:Q:41:LYS:HD2	12:Q:42:GLY:N	1.97	0.77
13:R:39:VAL:HG21	13:R:70:VAL:HA	1.66	0.77
1:A:104:ALA:O	1:A:111:ARG:NE	2.16	0.77
1:A:342:LEU:O	1:A:346:VAL:N	2.17	0.77
4:D:230:LEU:HD21	4:D:249:LEU:HD22	1.64	0.77
4:D:392:ALA:HB2	6:F:241:TYR:CZ	2.18	0.77
5:E:331:ILE:HG22	6:F:267:LEU:HD22	1.63	0.77
10:O:70:ARG:HB3	10:O:74:LYS:HG3	1.67	0.77
10:O:286:ILE:HG23	10:O:315:LEU:CD1	2.13	0.77
10:O:339:PHE:CD2	10:O:387:ALA:HA	2.18	0.77
2:B:105:ARG:CG	10:O:401:LYS:HZ2	1.95	0.77
10:O:302:ARG:CB	10:O:308:LEU:HD11	2.15	0.77
10:O:732:GLU:HG3	10:O:733:ARG:H	1.49	0.77
11:P:34:ILE:HG12	12:Q:5:PHE:CZ	2.14	0.77
1:A:273:GLU:O	1:A:277:GLN:CB	2.33	0.77
3:C:26:GLU:HB3	3:C:56:LEU:HA	1.65	0.77
3:C:246:SER:HB3	3:C:250:GLY:H	1.50	0.77
4:D:295:ASP:OD1	4:D:302:ARG:NH1	2.17	0.77
5:E:201:SER:OG	5:E:218:CYS:O	2.02	0.77
10:O:289:GLU:CG	10:O:290:LYS:N	2.39	0.77
10:O:544:TYR:HE2	10:O:552:LYS:HG2	1.50	0.77
10:O:551:ARG:CG	13:R:34:ALA:HB3	2.13	0.77
10:O:564:VAL:HG12	13:R:22:PHE:CD1	2.19	0.77
3:C:330:GLY:O	3:C:334:ALA:N	2.17	0.77
5:E:25:ILE:HG22	5:E:231:SER:HA	1.67	0.77
5:E:108:ASN:HA	5:E:154:THR:HG23	1.65	0.77
6:F:257:LEU:CD2	7:G:170:ILE:CG2	2.34	0.77
10:O:211:PHE:CE2	10:O:262:VAL:HG13	2.18	0.77
1:A:502:VAL:N	3:C:212:PRO:O	2.17	0.77
2:B:77:LYS:O	2:B:81:LYS:N	2.14	0.77
2:B:195:LEU:HD23	2:B:228:ILE:HD13	1.67	0.77
2:B:359:LEU:HD11	2:B:378:LEU:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:402:ILE:HA	2:B:409:LEU:HD13	1.66	0.77
4:D:233:THR:O	4:D:242:ARG:NE	2.16	0.77
6:F:41:VAL:HG21	6:F:119:LEU:HA	1.65	0.77
6:F:51:ILE:HA	6:F:125:TYR:CZ	2.19	0.77
10:O:503:LEU:HG	13:R:26:LYS:H	1.46	0.77
10:O:693:VAL:O	10:O:699:LEU:HD23	1.85	0.77
1:A:232:LYS:HA	1:A:235:ILE:HD12	1.67	0.77
4:D:209:ASN:ND2	4:D:245:MET:SD	2.57	0.77
5:E:243:ASN:CA	6:F:226:SER:C	2.46	0.77
7:G:140:ILE:HA	7:G:158:ILE:HG12	1.65	0.77
10:O:16:LYS:HD2	10:O:41:ASP:HB2	0.81	0.77
10:O:431:PHE:O	10:O:435:TYR:CB	2.33	0.77
1:A:251:TRP:O	1:A:255:LEU:N	2.15	0.77
1:A:425:MET:CG	2:B:404:GLN:HE22	1.97	0.77
3:C:179:LYS:HA	3:C:182:LEU:HD12	1.67	0.77
6:F:114:GLN:CG	9:N:133:LYS:O	2.33	0.77
10:O:170:ASP:OD1	10:O:175:ASP:O	2.03	0.77
11:P:35:LEU:HD22	12:Q:43:ARG:HD2	1.66	0.77
11:P:37:ARG:HB2	11:P:42:GLN:HE21	1.50	0.77
1:A:353:LYS:HA	1:A:356:LEU:HB2	1.65	0.77
3:C:228:ILE:HD13	3:C:260:TYR:HB3	1.66	0.77
10:O:208:GLU:HB2	10:O:258:SER:HB2	1.66	0.77
10:O:286:ILE:HD13	10:O:315:LEU:CB	2.14	0.77
12:Q:6:VAL:HG11	12:Q:29:LEU:HD12	0.77	0.77
12:Q:46:LEU:HD13	12:Q:49:PHE:HB2	0.77	0.77
1:A:292:ALA:O	1:A:296:ALA:N	2.18	0.77
1:A:350:SER:HA	1:A:353:LYS:HE3	1.65	0.77
1:A:497:ARG:NH1	6:F:309:PHE:HD1	1.83	0.77
3:C:351:ILE:N	8:H:124:ALA:O	2.17	0.77
1:A:271:ARG:O	1:A:275:ASP:N	2.18	0.76
1:A:303:ALA:HA	1:A:306:LEU:HD12	1.67	0.76
3:C:97:THR:O	3:C:101:ALA:N	2.14	0.76
4:D:281:PHE:HA	4:D:284:MET:SD	2.26	0.76
4:D:362:GLU:C	4:D:364:ARG:CG	2.51	0.76
2:B:367:THR:OG1	2:B:368:ARG:NH1	2.18	0.76
2:B:371:ILE:HD11	2:B:409:LEU:HB2	1.67	0.76
4:D:317:ASN:HA	4:D:361:PHE:HB3	0.89	0.76
5:E:78:MET:CE	9:N:125:ARG:O	2.33	0.76
6:F:114:GLN:HB3	9:N:132:GLU:C	1.97	0.76
10:O:17:LEU:CD2	10:O:64:PHE:N	2.06	0.76
10:O:48:ALA:C	10:O:50:PRO:CD	2.53	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:222:GLU:HG2	10:O:242:ARG:HD3	0.77	0.76
10:O:318:HIS:O	10:O:322:GLU:CB	2.33	0.76
10:O:568:TYR:HH	13:R:21:ARG:HD3	1.49	0.76
11:P:93:PHE:HB3	12:Q:51:SER:CA	2.15	0.76
12:Q:15:GLU:CB	12:Q:45:GLU:HB2	2.15	0.76
3:C:47:GLY:O	3:C:87:THR:OG1	2.03	0.76
3:C:387:ASP:HA	3:C:390:LEU:HD12	1.66	0.76
7:G:28:THR:HG22	7:G:60:ASN:HD21	1.50	0.76
10:O:312:ILE:CG1	10:O:364:PHE:CD1	2.63	0.76
10:O:568:TYR:CZ	13:R:21:ARG:HB2	2.20	0.76
10:O:611:THR:HB	10:O:630:GLU:CA	2.16	0.76
10:O:656:SER:O	10:O:658:GLN:CG	2.33	0.76
1:A:488:ALA:HA	3:C:207:GLN:HG3	1.68	0.76
2:B:438:VAL:HG12	6:F:302:MET:CG	2.15	0.76
4:D:351:PHE:CE2	4:D:360:HIS:CD2	2.73	0.76
5:E:244:LYS:C	6:F:227:ALA:CB	2.54	0.76
5:E:252:SER:OG	5:E:321:GLN:NE2	2.19	0.76
10:O:461:LEU:HA	10:O:465:CYS:HB3	1.66	0.76
10:O:596:TYR:O	10:O:600:GLN:HB2	1.86	0.76
10:O:688:MET:SD	10:O:731:ILE:CB	2.73	0.76
2:B:438:VAL:CG1	6:F:302:MET:CG	2.63	0.76
6:F:114:GLN:CB	9:N:132:GLU:HA	2.15	0.76
6:F:117:LYS:HZ1	9:N:137:PRO:HD3	1.49	0.76
7:G:145:LEU:HA	7:G:152:LEU:HD12	1.67	0.76
1:A:177:LYS:HA	1:A:180:LYS:HD2	1.67	0.76
1:A:425:MET:SD	1:A:425:MET:N	2.58	0.76
2:B:85:PHE:O	2:B:89:MET:N	2.17	0.76
2:B:443:ALA:HB3	3:C:244:TYR:CD2	2.15	0.76
5:E:69:ALA:HB2	5:E:139:SER:HB2	1.67	0.76
6:F:75:LYS:HB2	6:F:82:GLU:HB3	1.67	0.76
9:N:123:VAL:N	9:N:154:LYS:O	2.18	0.76
10:O:660:ASP:CB	10:O:663:GLN:HB3	2.16	0.76
4:D:387:LYS:HZ2	6:F:253:ASN:HD22	1.32	0.76
5:E:111:ALA:O	9:N:129:ARG:CG	2.33	0.76
10:O:6:ARG:HD2	10:O:52:PRO:HG3	0.76	0.76
10:O:10:PHE:HZ	10:O:59:THR:N	1.84	0.76
10:O:148:ARG:HH22	10:O:194:TYR:HE1	1.18	0.76
10:O:176:PRO:HB2	10:O:180:VAL:HB	1.67	0.76
11:P:34:ILE:HG22	11:P:35:LEU:HG	1.66	0.76
12:Q:7:THR:N	12:Q:44:ILE:HB	2.00	0.76
1:A:442:GLN:HA	1:A:445:LEU:HD12	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:51:VAL:H	3:C:90:GLY:HA2	1.50	0.76
7:G:30:LEU:HA	7:G:33:GLN:HE21	1.51	0.76
10:O:16:LYS:CE	10:O:41:ASP:N	2.49	0.76
10:O:389:GLU:HA	10:O:431:PHE:HE1	1.51	0.76
10:O:549:SER:N	13:R:33:TRP:CH2	2.54	0.76
10:O:562:GLY:HA3	10:O:577:VAL:H	1.49	0.76
1:A:350:SER:HA	1:A:353:LYS:HG3	1.68	0.76
2:B:338:MET:HE1	2:B:347:ILE:HG21	1.67	0.76
6:F:246:GLU:HG3	7:G:167:LEU:HD23	1.66	0.76
10:O:3:LEU:HG	10:O:4:LYS:HG2	1.66	0.76
10:O:283:HIS:CD2	10:O:314:GLU:O	2.17	0.76
1:A:88:ALA:O	1:A:96:ARG:NH2	2.19	0.76
1:A:305:CYS:HA	1:A:308:LEU:HD12	1.66	0.76
1:A:454:ASP:O	1:A:457:SER:OG	2.01	0.76
6:F:277:THR:HA	6:F:280:TYR:HD2	1.50	0.76
7:G:191:GLN:OE1	7:G:194:ARG:NH1	2.19	0.76
10:O:210:PRO:HA	10:O:213:THR:HB	1.66	0.76
10:O:381:PRO:HG3	10:O:383:SER:C	2.06	0.76
10:O:503:LEU:HD21	13:R:25:LYS:CA	2.16	0.76
12:Q:6:VAL:CG2	12:Q:29:LEU:HG	2.15	0.76
8:H:56:LEU:O	8:H:59:ARG:HG3	1.86	0.75
9:N:118:GLU:H	9:N:121:ASP:HB2	1.51	0.75
1:A:201:HIS:HA	1:A:220:CYS:HB3	1.67	0.75
2:B:205:TYR:HE1	2:B:213:LYS:HB2	1.51	0.75
2:B:205:TYR:O	2:B:209:LYS:N	2.19	0.75
3:C:184:TYR:HA	3:C:187:TYR:CZ	2.21	0.75
5:E:200:PRO:HD2	5:E:222:TYR:HA	1.67	0.75
5:E:307:SER:OG	6:F:296:THR:HG23	1.81	0.75
7:G:160:ARG:HB3	7:G:163:ARG:HH22	1.51	0.75
10:O:57:LEU:HD21	10:O:108:LEU:HD21	1.67	0.75
10:O:656:SER:OG	10:O:658:GLN:HG3	1.86	0.75
5:E:129:ARG:HG3	6:F:57:ARG:HH11	1.50	0.75
7:G:146:ASP:O	7:G:151:LEU:N	2.19	0.75
10:O:118:LEU:HD12	10:O:129:GLY:HA2	1.67	0.75
10:O:696:HIS:HA	10:O:722:ILE:CD1	2.17	0.75
12:Q:86:MET:HE3	12:Q:87:SER:HA	1.51	0.75
1:A:468:ARG:CZ	6:F:281:ASP:OD1	2.33	0.75
2:B:232:LEU:CD1	10:O:478:THR:HG21	2.15	0.75
3:C:202:LEU:HD11	3:C:231:SER:HB3	1.68	0.75
4:D:317:ASN:CA	4:D:361:PHE:CD1	2.64	0.75
6:F:257:LEU:CB	7:G:170:ILE:HG21	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:161:ARG:HD3	10:O:164:LEU:HD12	1.68	0.75
10:O:281:GLU:C	10:O:297:MET:CE	2.55	0.75
3:C:339:LEU:HA	3:C:342:ILE:HD12	1.67	0.75
5:E:107:VAL:CA	9:N:122:LYS:CG	2.44	0.75
6:F:291:TYR:O	6:F:295:ILE:HG13	1.85	0.75
7:G:66:LEU:HD21	7:G:88:LEU:HD21	1.67	0.75
7:G:71:ALA:HB2	7:G:164:LYS:HZ2	1.51	0.75
10:O:395:CYS:O	10:O:399:LEU:N	2.18	0.75
10:O:551:ARG:CG	13:R:34:ALA:CB	2.65	0.75
10:O:568:TYR:HB2	13:R:18:LYS:CA	1.93	0.75
11:P:46:LYS:HG3	11:P:62:PHE:HE1	1.52	0.75
11:P:96:PRO:HD2	12:Q:52:HIS:CE1	2.22	0.75
13:R:56:CYS:SG	13:R:81:PHE:N	2.60	0.75
3:C:226:LYS:HA	3:C:229:LEU:HD12	1.69	0.75
10:O:201:LYS:O	10:O:205:GLU:HB3	1.86	0.75
10:O:208:GLU:OE2	10:O:261:LYS:CB	2.32	0.75
10:O:362:GLN:HA	10:O:365:MET:HG2	1.69	0.75
12:Q:23:ALA:CB	12:Q:29:LEU:HG	2.16	0.75
2:B:58:LEU:HD13	2:B:72:LEU:HD21	1.68	0.75
3:C:116:GLN:HB3	3:C:117:PRO:HD2	1.69	0.75
7:G:35:LEU:O	7:G:95:LYS:NZ	2.20	0.75
10:O:574:VAL:HG13	13:R:25:LYS:HZ1	1.49	0.75
1:A:495:VAL:HG23	1:A:500:ILE:HB	1.69	0.75
2:B:25:ASN:N	10:O:652:LYS:HZ1	1.84	0.75
2:B:317:ALA:O	2:B:321:ASN:N	2.20	0.75
2:B:426:LYS:HD2	2:B:429:ASN:HB3	1.66	0.75
7:G:68:ASN:O	7:G:72:TYR:N	2.18	0.75
10:O:584:VAL:HG11	10:O:610:LEU:HB2	1.68	0.75
6:F:69:ILE:HD11	6:F:98:ILE:HG22	1.69	0.75
10:O:465:CYS:SG	10:O:466:GLY:N	2.60	0.75
10:O:692:LYS:HD2	10:O:743:TYR:CD2	2.20	0.75
11:P:65:GLN:O	15:P:202:HOH:O	2.04	0.75
12:Q:9:VAL:CB	12:Q:45:GLU:OE1	2.35	0.75
2:B:143:LYS:CE	10:O:407:THR:HG22	2.17	0.74
4:D:364:ARG:O	4:D:369:THR:OG1	2.05	0.74
4:D:399:ALA:O	6:F:237:LEU:HD21	1.87	0.74
5:E:107:VAL:O	9:N:122:LYS:CG	2.30	0.74
5:E:325:ASP:CG	6:F:275:PHE:HE2	1.89	0.74
6:F:33:CYS:HA	6:F:184:ALA:HB2	1.68	0.74
10:O:108:LEU:HD12	10:O:111:GLN:HB3	1.68	0.74
10:O:330:LEU:H	10:O:330:LEU:HD12	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:7:THR:HB	12:Q:45:GLU:CB	2.05	0.74
2:B:105:ARG:CZ	10:O:401:LYS:CE	2.64	0.74
2:B:370:HIS:HB3	2:B:373:PHE:HB2	1.69	0.74
2:B:424:LEU:CD2	5:E:266:VAL:HG11	2.14	0.74
3:C:35:LEU:HA	3:C:39:LEU:HD21	1.69	0.74
3:C:353:GLN:OE1	8:H:129:ILE:N	2.19	0.74
4:D:351:PHE:CD2	4:D:360:HIS:HD2	2.05	0.74
5:E:333:ILE:HG12	6:F:267:LEU:HD12	1.67	0.74
10:O:9:ASP:N	10:O:56:ARG:NH1	2.36	0.74
10:O:422:PHE:HE1	10:O:461:LEU:HD23	1.50	0.74
11:P:29:ARG:O	15:P:201:HOH:O	2.04	0.74
2:B:86:PRO:HA	2:B:89:MET:HB3	1.69	0.74
6:F:43:LEU:HD23	6:F:191:ALA:H	1.50	0.74
7:G:124:ASN:N	7:G:127:GLU:OE2	2.19	0.74
10:O:212:LEU:HD22	10:O:265:GLU:CB	2.15	0.74
10:O:338:LEU:O	10:O:342:SER:N	2.18	0.74
10:O:688:MET:SD	10:O:725:LEU:CB	2.75	0.74
11:P:35:LEU:CD2	12:Q:43:ARG:HH11	1.98	0.74
2:B:341:PRO:O	2:B:345:GLU:N	2.20	0.74
3:C:121:ILE:HG23	3:C:145:LEU:HD11	1.69	0.74
4:D:395:TRP:CE2	6:F:250:VAL:HG22	2.22	0.74
5:E:315:ILE:HB	8:H:207:LEU:CD2	2.17	0.74
10:O:16:LYS:HZ3	10:O:38:ARG:C	1.85	0.74
10:O:211:PHE:HZ	10:O:250:CYS:SG	2.11	0.74
10:O:385:CYS:SG	10:O:427:ASP:HB2	2.27	0.74
10:O:476:MET:HB2	10:O:512:LEU:HD22	1.69	0.74
10:O:727:ASP:CA	13:R:45:CYS:CB	2.30	0.74
1:A:136:ARG:NH1	1:A:140:GLU:OE2	2.19	0.74
1:A:497:ARG:NH1	6:F:309:PHE:CD1	2.55	0.74
2:B:28:PRO:CA	2:B:31:ASP:OD2	2.35	0.74
2:B:375:SER:O	2:B:379:ASN:N	2.21	0.74
2:B:428:THR:HG23	6:F:292:LEU:CD2	2.18	0.74
3:C:85:ILE:HA	3:C:127:ALA:HB2	1.69	0.74
5:E:90:MET:SD	5:E:187:ARG:NH1	2.60	0.74
5:E:315:ILE:CB	8:H:207:LEU:HD11	2.13	0.74
7:G:117:LEU:HD21	7:G:128:LEU:HD22	1.68	0.74
10:O:435:TYR:O	10:O:442:ARG:NH2	2.19	0.74
12:Q:17:GLU:CG	12:Q:43:ARG:HH22	1.90	0.74
1:A:352:PHE:HD2	1:A:356:LEU:HD12	1.51	0.74
2:B:159:TYR:CE2	2:B:167:LYS:HE2	2.22	0.74
2:B:238:ARG:O	2:B:242:GLY:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:245:HIS:O	2:B:249:GLY:N	2.17	0.74
2:B:427:TRP:NE1	5:E:266:VAL:O	2.20	0.74
3:C:129:ASP:OD1	3:C:132:GLN:NE2	2.21	0.74
3:C:351:ILE:HB	8:H:125:TYR:HA	1.69	0.74
5:E:244:LYS:C	6:F:227:ALA:HB1	2.08	0.74
6:F:114:GLN:HB2	9:N:132:GLU:HA	1.70	0.74
6:F:152:LEU:HG	6:F:165:VAL:HG13	1.68	0.74
10:O:16:LYS:HE3	10:O:41:ASP:N	2.02	0.74
10:O:211:PHE:CD2	10:O:262:VAL:CB	2.69	0.74
10:O:220:LYS:HE2	10:O:274:HIS:CD2	2.21	0.74
10:O:676:ARG:NH2	10:O:710:ARG:HG2	2.03	0.74
11:P:50:LEU:O	15:P:203:HOH:O	2.05	0.74
12:Q:26:SER:CA	12:Q:27:PRO:N	2.50	0.74
3:C:85:ILE:HG21	3:C:124:LEU:HA	1.68	0.74
7:G:1:MET:HB3	7:G:12:LEU:HD21	1.70	0.74
10:O:21:ILE:HD12	10:O:65:LEU:HA	1.70	0.74
10:O:21:ILE:N	10:O:38:ARG:HH11	1.85	0.74
10:O:50:PRO:C	10:O:51:GLU:N	2.40	0.74
10:O:617:LEU:O	10:O:622:MET:N	2.21	0.74
1:A:321:SER:O	1:A:325:VAL:N	2.17	0.74
1:A:488:ALA:O	3:C:207:GLN:NE2	2.19	0.74
3:C:22:THR:O	3:C:56:LEU:N	2.21	0.74
4:D:362:GLU:C	4:D:364:ARG:NH1	2.40	0.74
6:F:252:PHE:HE1	7:G:167:LEU:CD2	1.98	0.74
9:N:143:LEU:HD22	9:N:167:LEU:HB3	1.69	0.74
10:O:10:PHE:C	10:O:56:ARG:HE	1.90	0.74
10:O:14:TRP:CG	10:O:60:GLU:CA	2.69	0.74
10:O:301:LEU:HB3	10:O:307:GLY:N	2.02	0.74
1:A:84:LEU:HD11	1:A:100:LEU:HD21	1.70	0.74
2:B:431:LEU:CD1	6:F:292:LEU:HD22	2.15	0.74
5:E:61:ALA:O	5:E:65:MET:CB	2.36	0.74
7:G:136:VAL:HG12	7:G:141:ILE:HB	1.70	0.74
10:O:186:ASN:O	10:O:190:HIS:HB2	1.88	0.74
10:O:388:PRO:HG3	10:O:425:ILE:HG13	1.69	0.74
10:O:687:ILE:HD13	10:O:706:GLN:NE2	2.03	0.74
11:P:79:PHE:N	11:P:86:GLU:OE1	2.21	0.74
2:B:110:LYS:HA	2:B:113:ASN:HD22	1.52	0.74
5:E:28:ILE:HG21	5:E:229:PHE:HB2	1.69	0.74
5:E:259:ALA:O	5:E:262:THR:OG1	2.03	0.74
8:H:24:GLU:HB3	8:H:40:LEU:HD11	1.69	0.74
10:O:573:TYR:HB3	10:O:650:LYS:HE2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:722:ILE:O	10:O:726:ILE:HG12	1.88	0.74
13:R:75:CYS:HB3	13:R:99:ARG:NE	2.02	0.74
2:B:143:LYS:CE	10:O:407:THR:CG2	2.66	0.73
6:F:270:LEU:HD13	6:F:272:THR:CG2	2.18	0.73
7:G:133:ILE:O	7:G:137:TYR:HB2	1.87	0.73
8:H:204:VAL:HG13	8:H:208:GLU:HB3	1.70	0.73
10:O:10:PHE:HB3	10:O:56:ARG:HE	1.06	0.73
11:P:99:LEU:O	11:P:104:LYS:NZ	2.20	0.73
12:Q:7:THR:HG23	12:Q:43:ARG:CZ	2.15	0.73
1:A:286:LYS:HE3	1:A:306:LEU:HA	1.67	0.73
1:A:497:ARG:HH22	6:F:309:PHE:HE1	1.34	0.73
9:N:141:GLN:HG2	9:N:171:LEU:HD13	1.67	0.73
10:O:254:LEU:O	10:O:256:PRO:CD	2.32	0.73
10:O:553:LEU:CD2	13:R:30:VAL:O	2.35	0.73
12:Q:86:MET:SD	12:Q:90:LEU:HD23	2.26	0.73
2:B:221:SER:HA	2:B:224:ILE:HD11	1.69	0.73
3:C:25:CYS:HB2	3:C:55:SER:HA	1.70	0.73
6:F:243:LYS:HE3	6:F:243:LYS:N	2.02	0.73
7:G:43:PHE:O	7:G:47:LEU:N	2.17	0.73
7:G:203:LEU:CD1	8:H:209:ASN:HB2	2.16	0.73
9:N:108:LEU:CD1	10:O:691:ARG:HH11	2.00	0.73
10:O:285:ILE:HG21	10:O:294:MET:CB	2.18	0.73
10:O:336:PRO:HG3	10:O:390:LEU:HD22	1.68	0.73
11:P:41:GLU:HA	11:P:80:ARG:HB2	1.70	0.73
11:P:43:ARG:HB2	11:P:78:ALA:HB3	1.68	0.73
1:A:310:SER:O	1:A:313:HIS:ND1	2.17	0.73
2:B:159:TYR:HE2	2:B:167:LYS:HE2	1.51	0.73
2:B:232:LEU:HD12	10:O:478:THR:CG2	2.19	0.73
4:D:318:ASN:HB3	4:D:361:PHE:CD1	2.23	0.73
5:E:59:ALA:H	6:F:46:LEU:HD13	1.53	0.73
5:E:325:ASP:CG	6:F:275:PHE:CE2	2.61	0.73
10:O:42:ILE:CD1	10:O:105:TYR:OH	2.36	0.73
10:O:151:MET:SD	10:O:191:VAL:CG2	2.77	0.73
10:O:549:SER:O	13:R:36:ASP:N	2.21	0.73
1:A:279:GLN:HG2	1:A:313:HIS:HA	1.68	0.73
2:B:41:ALA:HB1	2:B:50:ALA:HB1	1.71	0.73
3:C:23:GLN:HB3	3:C:58:VAL:CB	2.18	0.73
5:E:325:ASP:OD1	5:E:329:ASN:ND2	2.21	0.73
8:H:102:VAL:HA	8:H:105:ILE:HG12	1.68	0.73
10:O:7:VAL:HG22	10:O:52:PRO:HB3	1.69	0.73
10:O:390:LEU:HD23	10:O:393:LYS:HD2	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:7:THR:O	12:Q:45:GLU:CA	2.37	0.73
2:B:297:GLN:NE2	13:R:67:GLU:HB2	2.02	0.73
7:G:201:GLN:HE21	7:G:205:LEU:HD11	1.53	0.73
8:H:98:TRP:O	8:H:103:GLN:N	2.20	0.73
10:O:318:HIS:O	10:O:322:GLU:HB3	1.88	0.73
10:O:389:GLU:HB3	10:O:393:LYS:HE3	1.70	0.73
2:B:212:LYS:HG2	2:B:215:LYS:HE3	1.71	0.73
3:C:6:GLU:O	3:C:10:ASN:ND2	2.20	0.73
6:F:110:GLU:OE2	6:F:114:GLN:NE2	2.22	0.73
9:N:173:LEU:HD11	10:O:695:ARG:HG3	1.45	0.73
1:A:488:ALA:N	3:C:203:TYR:OH	2.21	0.73
2:B:329:ILE:O	2:B:333:ASN:N	2.21	0.73
2:B:441:LYS:HB3	6:F:306:VAL:HG21	1.71	0.73
4:D:395:TRP:CD2	6:F:241:TYR:CE1	2.72	0.73
4:D:399:ALA:C	6:F:237:LEU:CD2	2.54	0.73
5:E:60:LEU:N	6:F:46:LEU:HD22	2.03	0.73
5:E:318:LEU:HB2	6:F:286:VAL:CG2	2.08	0.73
6:F:51:ILE:HG21	6:F:154:LEU:HD13	1.70	0.73
9:N:134:GLU:OE2	9:N:175:GLY:C	2.27	0.73
10:O:14:TRP:CG	10:O:60:GLU:HA	2.07	0.73
10:O:700:ILE:CD1	10:O:718:ILE:HB	2.19	0.73
11:P:34:ILE:CB	12:Q:5:PHE:CE2	2.70	0.73
11:P:56:THR:O	11:P:60:CYS:N	2.19	0.73
11:P:94:SER:H	12:Q:51:SER:H	1.34	0.73
2:B:194:LEU:HB3	2:B:228:ILE:HD12	1.71	0.73
2:B:338:MET:HE1	2:B:344:ARG:HA	1.68	0.73
3:C:253:ILE:HG12	3:C:256:LEU:HD12	1.71	0.73
3:C:301:SER:HA	3:C:304:LYS:HD2	1.71	0.73
5:E:128:GLY:HA3	6:F:61:GLN:HE22	1.54	0.73
5:E:240:LEU:HD23	5:E:243:ASN:HD22	1.54	0.73
9:N:170:VAL:HA	10:O:690:ALA:O	1.70	0.73
10:O:16:LYS:HZ1	10:O:40:SER:H	1.36	0.73
10:O:20:THR:CG2	10:O:38:ARG:CD	2.67	0.73
10:O:504:GLY:C	13:R:26:LYS:HZ3	1.91	0.73
10:O:610:LEU:O	10:O:614:ILE:HD12	1.89	0.73
11:P:93:PHE:CD1	12:Q:51:SER:C	2.62	0.73
11:P:93:PHE:HD1	12:Q:51:SER:HB3	0.85	0.73
12:Q:26:SER:HA	12:Q:27:PRO:HD2	1.67	0.73
3:C:24:LEU:N	3:C:54:HIS:O	2.21	0.73
5:E:39:ILE:HB	5:E:85:VAL:HG23	1.71	0.73
5:E:98:LEU:HD13	5:E:100:VAL:HG11	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:141:GLN:HG2	9:N:171:LEU:CD1	2.09	0.73
10:O:688:MET:SD	10:O:731:ILE:HB	2.28	0.73
10:O:692:LYS:CD	10:O:743:TYR:CD2	2.72	0.73
3:C:159:LEU:HD23	3:C:162:LEU:HD21	1.68	0.72
3:C:199:GLU:HG3	3:C:234:LEU:HD21	1.70	0.72
6:F:98:ILE:HG22	6:F:138:VAL:HG21	1.71	0.72
8:H:17:LEU:O	8:H:21:GLU:HG2	1.89	0.72
9:N:101:MSE:HG2	9:N:103:ILE:HG23	1.71	0.72
10:O:21:ILE:HG12	10:O:101:MET:CE	2.17	0.72
10:O:113:ILE:HD13	10:O:138:GLU:HG3	1.71	0.72
10:O:461:LEU:CA	10:O:465:CYS:HB3	2.19	0.72
10:O:571:LYS:NZ	10:O:642:MET:SD	2.62	0.72
10:O:573:TYR:HB3	10:O:650:LYS:HB3	1.70	0.72
11:P:96:PRO:HD2	12:Q:52:HIS:HE1	1.52	0.72
1:A:107:CYS:O	1:A:111:ARG:N	2.21	0.72
10:O:151:MET:SD	10:O:191:VAL:CG1	2.77	0.72
11:P:66:THR:O	15:P:204:HOH:O	2.06	0.72
1:A:219:LYS:O	1:A:223:ARG:N	2.21	0.72
2:B:89:MET:HA	2:B:92:TYR:CE1	2.23	0.72
2:B:255:HIS:HA	2:B:258:PHE:HD2	1.53	0.72
3:C:198:PHE:HB3	3:C:230:VAL:HG13	1.71	0.72
3:C:352:ASN:OD1	8:H:127:SER:OG	2.03	0.72
5:E:106:ARG:HD3	9:N:125:ARG:N	2.03	0.72
5:E:119:ALA:HB1	6:F:111:GLN:HG2	1.71	0.72
5:E:243:ASN:CB	6:F:230:MET:HE1	2.19	0.72
5:E:246:TRP:HB3	6:F:224:GLN:C	2.09	0.72
8:H:55:TYR:HD2	8:H:56:LEU:HD22	1.53	0.72
10:O:21:ILE:HD11	10:O:101:MET:CE	2.19	0.72
10:O:212:LEU:N	10:O:262:VAL:CB	2.51	0.72
10:O:303:ALA:C	10:O:305:SER:OG	2.27	0.72
10:O:503:LEU:HD21	13:R:25:LYS:HA	1.69	0.72
1:A:170:THR:HA	1:A:173:LYS:HD2	1.71	0.72
5:E:70:ARG:HD3	5:E:176:ILE:HD11	1.72	0.72
6:F:205:ARG:HH22	6:F:219:GLU:HG2	1.03	0.72
10:O:20:THR:CB	10:O:38:ARG:CD	2.68	0.72
10:O:100:TYR:CD2	12:Q:35:GLY:HA2	2.24	0.72
1:A:391:ASP:HB3	1:A:394:LEU:HB2	1.69	0.72
2:B:428:THR:HA	2:B:431:LEU:HD12	1.71	0.72
4:D:318:ASN:CB	4:D:361:PHE:HD1	2.00	0.72
10:O:47:VAL:HG21	10:O:49:TYR:HE1	1.55	0.72
10:O:102:ASP:OD1	10:O:109:ASN:ND2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:171:ARG:HB3	10:O:249:ARG:NH1	2.04	0.72
10:O:211:PHE:HD2	10:O:259:TYR:HB2	1.47	0.72
12:Q:52:HIS:CG	15:Q:104:HOH:O	2.42	0.72
1:A:266:GLU:HB3	1:A:270:GLN:HB2	1.72	0.72
1:A:334:LEU:HD22	1:A:366:ILE:HG12	1.72	0.72
2:B:342:PHE:HA	2:B:345:GLU:HB3	1.70	0.72
3:C:85:ILE:CG2	3:C:126:GLN:HB2	2.18	0.72
3:C:150:LEU:HD13	3:C:191:ILE:HG13	1.72	0.72
4:D:365:GLU:N	4:D:369:THR:OG1	2.22	0.72
5:E:37:GLN:NE2	5:E:132:ASN:OD1	2.23	0.72
5:E:183:LEU:HD22	5:E:226:VAL:HG21	1.71	0.72
5:E:327:LEU:HD21	7:G:185:LEU:HD22	1.70	0.72
10:O:489:LYS:HA	10:O:492:ASN:HD22	1.55	0.72
10:O:551:ARG:CA	13:R:32:LEU:HD12	2.00	0.72
10:O:600:GLN:HA	10:O:603:THR:HG23	1.71	0.72
10:O:697:ASN:O	10:O:700:ILE:HG22	1.90	0.72
11:P:18:ALA:HB3	11:P:57:LEU:HD11	1.70	0.72
11:P:70:GLN:NE2	12:Q:78:PRO:HG3	2.03	0.72
11:P:93:PHE:O	15:P:207:HOH:O	2.08	0.72
1:A:232:LYS:NZ	1:A:236:ASN:OD1	2.22	0.72
1:A:410:LEU:HA	1:A:413:TYR:CE1	2.25	0.72
1:A:499:GLN:HB2	3:C:171:LYS:HZ2	1.54	0.72
3:C:143:ALA:HA	3:C:187:TYR:HE1	1.53	0.72
4:D:388:ILE:HG21	6:F:241:TYR:CD2	2.24	0.72
10:O:202:PHE:CB	10:O:206:ILE:CD1	2.60	0.72
11:P:93:PHE:HB2	12:Q:52:HIS:HB3	1.72	0.72
12:Q:5:PHE:C	12:Q:41:LYS:NZ	2.43	0.72
1:A:78:GLU:HG3	1:A:107:CYS:HA	1.72	0.72
1:A:242:ILE:HD12	1:A:254:VAL:HG13	1.70	0.72
3:C:342:ILE:HG22	8:H:120:LEU:HD21	1.72	0.72
5:E:146:TRP:HB3	5:E:169:VAL:HG22	1.70	0.72
6:F:46:LEU:HG	6:F:46:LEU:O	1.89	0.72
6:F:103:GLU:HA	6:F:106:TYR:HD2	1.54	0.72
8:H:33:THR:HG22	8:H:36:VAL:H	1.54	0.72
11:P:21:SER:O	15:P:208:HOH:O	2.08	0.72
11:P:35:LEU:O	15:P:210:HOH:O	2.08	0.72
3:C:334:ALA:HA	3:C:337:TYR:CE1	2.24	0.72
4:D:316:TYR:CE1	7:G:145:LEU:HD23	2.25	0.72
5:E:111:ALA:O	9:N:129:ARG:HG2	1.90	0.72
5:E:147:LEU:HD22	5:E:151:ASP:HB3	1.70	0.72
10:O:567:ASN:HB2	13:R:20:LYS:CA	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:74:ASP:HA	15:Q:106:HOH:O	1.88	0.72
13:R:86:ARG:HD3	13:R:89:LYS:HD2	1.72	0.72
4:D:371:ASP:HA	4:D:374:ILE:HB	1.70	0.72
5:E:189:TYR:N	5:E:220:GLN:O	2.22	0.72
6:F:122:LEU:HG	6:F:150:LEU:HB3	1.70	0.72
8:H:90:TYR:HA	8:H:93:ILE:HD12	1.71	0.72
10:O:275:LEU:CD2	10:O:306:THR:OG1	2.38	0.72
10:O:381:PRO:CG	10:O:384:VAL:CA	2.68	0.72
11:P:10:HIS:O	15:P:205:HOH:O	2.07	0.72
12:Q:7:THR:O	12:Q:45:GLU:N	2.12	0.72
12:Q:45:GLU:OE2	12:Q:46:LEU:O	2.02	0.72
1:A:420:ALA:O	1:A:460:LEU:N	2.21	0.71
3:C:7:GLN:O	3:C:11:SER:N	2.23	0.71
4:D:370:TRP:HH2	6:F:275:PHE:CD1	1.88	0.71
4:D:395:TRP:HB3	6:F:241:TYR:HD1	1.55	0.71
5:E:83:GLY:HA3	5:E:134:ILE:HG21	1.72	0.71
5:E:258:ASN:HB2	5:E:261:TYR:HB3	1.71	0.71
6:F:261:TYR:OH	7:G:106:SER:C	2.29	0.71
10:O:100:TYR:CZ	12:Q:35:GLY:CA	2.71	0.71
10:O:386:LYS:O	10:O:390:LEU:N	2.17	0.71
11:P:34:ILE:HG23	12:Q:5:PHE:CG	2.23	0.71
11:P:95:SER:OG	15:P:207:HOH:O	2.08	0.71
12:Q:3:GLN:N	12:Q:4:ASP:N	2.34	0.71
2:B:422:THR:O	2:B:425:ASP:HB3	1.91	0.71
3:C:156:LYS:HD2	3:C:157:PRO:HD3	1.72	0.71
3:C:192:TYR:CD1	3:C:197:ASN:HB3	2.25	0.71
5:E:186:PHE:HA	5:E:222:TYR:O	1.89	0.71
6:F:114:GLN:HA	9:N:135:GLY:HA2	1.72	0.71
9:N:151:ASN:HB3	9:N:154:LYS:HG3	1.71	0.71
6:F:115:VAL:HG11	9:N:132:GLU:HB2	1.71	0.71
6:F:254:HIS:NE2	7:G:163:ARG:HB3	2.05	0.71
7:G:97:LYS:NZ	7:G:120:LEU:O	2.24	0.71
10:O:278:LEU:HB3	10:O:301:LEU:HD11	1.72	0.71
10:O:544:TYR:CE1	13:R:33:TRP:CD1	2.78	0.71
1:A:344:ARG:NH1	1:A:345:ASN:OD1	2.24	0.71
3:C:239:GLN:NE2	3:C:240:GLN:O	2.24	0.71
4:D:358:ILE:HG13	4:D:360:HIS:CE1	2.25	0.71
6:F:252:PHE:CE1	7:G:167:LEU:HD22	2.25	0.71
8:H:98:TRP:HE1	8:H:101:THR:HB	1.54	0.71
9:N:108:LEU:HD11	10:O:687:ILE:HG23	0.77	0.71
10:O:354:ILE:HA	10:O:358:LEU:HG	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:648:ARG:HB2	10:O:651:PHE:HB2	1.72	0.71
11:P:91:GLU:O	15:P:206:HOH:O	2.07	0.71
13:R:39:VAL:HG11	13:R:70:VAL:CG2	2.20	0.71
1:A:92:SER:O	1:A:247:TYR:OH	2.08	0.71
1:A:419:SER:HB2	1:A:461:TYR:HD1	1.56	0.71
3:C:308:GLN:O	3:C:311:THR:OG1	2.05	0.71
3:C:332:GLN:O	3:C:336:LYS:HG2	1.91	0.71
7:G:94:ASN:O	7:G:98:HIS:ND1	2.24	0.71
8:H:24:GLU:OE2	8:H:33:THR:N	2.24	0.71
8:H:154:GLN:NE2	8:H:155:ALA:O	2.23	0.71
10:O:322:GLU:OE1	10:O:325:ARG:NH1	2.24	0.71
10:O:399:LEU:HB3	10:O:449:MET:H	1.55	0.71
10:O:436:ALA:HB1	10:O:518:PRO:HD3	1.73	0.71
10:O:612:LYS:HE2	10:O:657:MET:H	1.55	0.71
13:R:44:ILE:HD12	13:R:79:PHE:HB3	1.70	0.71
13:R:80:HIS:HB2	13:R:83:CYS:HB2	1.71	0.71
1:A:225:ARG:NH1	1:A:257:TYR:OH	2.24	0.71
4:D:286[B]:MET:O	4:D:290:LYS:N	2.22	0.71
7:G:47:LEU:HD13	7:G:52:VAL:HG12	1.71	0.71
10:O:66:GLU:OE2	10:O:70:ARG:NH2	2.23	0.71
10:O:250:CYS:C	10:O:259:TYR:OH	2.28	0.71
10:O:394:TYR:O	10:O:398:LEU:N	2.24	0.71
10:O:610:LEU:HB3	10:O:631:ASP:HA	1.72	0.71
1:A:82:LEU:HD21	1:A:390:LEU:HD22	1.70	0.71
1:A:198:ARG:NH1	1:A:227:TYR:O	2.24	0.71
2:B:70:LYS:O	2:B:74:GLN:HG2	1.89	0.71
2:B:79:ASN:CB	2:B:88:MET:HB2	2.21	0.71
5:E:55:CYS:HA	5:E:90:MET:O	1.91	0.71
9:N:106:LYS:HB3	9:N:166:VAL:HG13	1.71	0.71
11:P:37:ARG:NH2	15:P:209:HOH:O	2.23	0.71
1:A:179:GLU:O	15:A:602:HOH:O	2.07	0.71
1:A:286:LYS:HG2	1:A:305:CYS:HB3	1.72	0.71
3:C:265:GLN:NE2	3:C:268:SER:OG	2.23	0.71
4:D:365:GLU:CA	6:F:270:LEU:HD11	2.21	0.71
6:F:94:VAL:HG23	6:F:99:ILE:HG13	1.72	0.71
10:O:6:ARG:CG	10:O:52:PRO:CG	2.68	0.71
11:P:31:VAL:HA	11:P:34:ILE:HD12	1.73	0.71
11:P:103:MET:SD	12:Q:85:GLU:C	2.68	0.71
1:A:138:LEU:HD11	1:A:160:PRO:HD3	1.71	0.71
2:B:76:ILE:HA	2:B:88:MET:HG2	1.73	0.71
4:D:286[A]:MET:O	4:D:290:LYS:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:365:GLU:C	6:F:270:LEU:CD1	2.59	0.71
6:F:109:GLU:O	6:F:113:LYS:N	2.15	0.71
6:F:254:HIS:CE1	6:F:258:ARG:HD3	2.25	0.71
7:G:172:ARG:HH21	7:G:175:GLN:HB2	1.56	0.71
10:O:16:LYS:HE3	10:O:41:ASP:H	1.54	0.71
10:O:22:LYS:HA	10:O:68:HIS:HA	1.70	0.71
10:O:222:GLU:HG3	10:O:242:ARG:CD	2.13	0.71
1:A:477:LEU:HD23	1:A:480:LYS:HZ1	1.55	0.71
2:B:427:TRP:CH2	5:E:266:VAL:HA	2.26	0.71
3:C:31:SER:HB3	3:C:103:LEU:HD13	1.73	0.71
3:C:152:ALA:O	8:H:55:TYR:OH	2.09	0.71
3:C:297:GLN:O	3:C:300:SER:OG	2.08	0.71
3:C:387:ASP:O	6:F:297:LYS:NZ	2.23	0.71
10:O:22:LYS:HB2	10:O:67:ASN:O	1.91	0.71
10:O:185:ILE:HG13	10:O:207:PHE:CE1	2.26	0.71
10:O:259:TYR:O	10:O:262:VAL:CA	2.39	0.71
10:O:557:HIS:HB3	10:O:579:THR:HG21	1.72	0.71
12:Q:46:LEU:HD11	12:Q:49:PHE:CD2	2.26	0.71
1:A:218:LEU:O	1:A:222:SER:N	2.15	0.70
1:A:466:ASP:OD1	1:A:468:ARG:N	2.24	0.70
2:B:19:GLU:CA	10:O:652:LYS:HE3	2.14	0.70
5:E:82:LEU:HB2	5:E:94:ASP:HB2	1.73	0.70
5:E:307:SER:CB	6:F:296:THR:HG21	2.20	0.70
10:O:20:THR:HB	10:O:38:ARG:CZ	2.16	0.70
10:O:21:ILE:C	10:O:68:HIS:HA	2.11	0.70
10:O:103:CYS:CB	12:Q:32:MET:HA	2.14	0.70
10:O:383:SER:OG	10:O:389:GLU:OE2	2.09	0.70
10:O:685:VAL:HG22	10:O:725:LEU:HD22	1.72	0.70
13:R:85:SER:O	13:R:89:LYS:HG3	1.89	0.70
2:B:251:PHE:O	2:B:255:HIS:N	2.22	0.70
2:B:443:ALA:CB	3:C:244:TYR:HB2	2.20	0.70
5:E:243:ASN:CB	6:F:230:MET:HB2	2.01	0.70
5:E:268:ASP:HA	5:E:271:GLU:OE1	1.90	0.70
6:F:142:VAL:HG12	6:F:149:PRO:HB2	1.73	0.70
6:F:243:LYS:HE3	6:F:243:LYS:H	1.56	0.70
10:O:16:LYS:HB3	10:O:41:ASP:HB2	1.39	0.70
10:O:276:GLN:HA	10:O:279:HIS:CE1	2.26	0.70
10:O:611:THR:N	10:O:630:GLU:O	2.24	0.70
11:P:80:ARG:O	15:P:209:HOH:O	2.08	0.70
3:C:178:ALA:HA	3:C:181:PHE:CE1	2.27	0.70
6:F:57:ARG:NH1	6:F:88:GLU:OE1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:288:LEU:HD12	6:F:291:TYR:HB3	1.74	0.70
6:F:304:GLN:HA	6:F:307:ASN:HD22	1.56	0.70
10:O:10:PHE:CD2	10:O:56:ARG:CB	2.41	0.70
10:O:10:PHE:CB	10:O:56:ARG:CB	2.48	0.70
10:O:339:PHE:CE2	10:O:387:ALA:HA	2.19	0.70
10:O:339:PHE:CZ	10:O:387:ALA:N	2.53	0.70
10:O:586:LEU:HA	10:O:589:ASN:HD21	1.56	0.70
10:O:699:LEU:O	10:O:703:VAL:HG23	1.90	0.70
1:A:274:ARG:HB3	1:A:277:GLN:HA	1.71	0.70
2:B:297:GLN:HE22	13:R:70:VAL:HB	1.56	0.70
5:E:96:PHE:O	5:E:138:HIS:N	2.24	0.70
10:O:45:LEU:O	10:O:57:LEU:HB2	1.92	0.70
10:O:212:LEU:CD2	10:O:265:GLU:HB3	2.21	0.70
10:O:385:CYS:HB3	10:O:427:ASP:HB2	1.73	0.70
10:O:626:ASP:HB2	10:O:636:SER:HA	1.72	0.70
12:Q:46:LEU:HD11	12:Q:49:PHE:CG	2.25	0.70
12:Q:86:MET:HG2	12:Q:87:SER:CA	2.07	0.70
1:A:99:ARG:NH1	1:A:391:ASP:OD1	2.19	0.70
2:B:323:ILE:HD11	2:B:355:ARG:HA	1.74	0.70
2:B:370:HIS:HA	2:B:408:LEU:HD23	1.73	0.70
3:C:85:ILE:HA	3:C:127:ALA:CB	2.22	0.70
6:F:65:PRO:CB	6:F:157:MET:HG3	2.22	0.70
10:O:7:VAL:CG2	10:O:52:PRO:HG2	2.21	0.70
10:O:301:LEU:O	10:O:305:SER:O	2.09	0.70
10:O:415:LEU:HA	10:O:418:PHE:CD2	2.27	0.70
12:Q:86:MET:HE1	12:Q:87:SER:O	1.87	0.70
13:R:42:CYS:HB3	13:R:49:ILE:HD13	1.72	0.70
2:B:368:ARG:CB	2:B:410:GLU:HA	2.21	0.70
6:F:143:CYS:HA	6:F:149:PRO:HG3	1.74	0.70
7:G:70:PHE:O	7:G:160:ARG:NH2	2.24	0.70
10:O:562:GLY:N	10:O:577:VAL:O	2.22	0.70
11:P:1:MET:N	15:P:233:HOH:O	2.25	0.70
13:R:26:LYS:NZ	13:R:27:TRP:O	2.24	0.70
2:B:438:VAL:HG21	6:F:299:CYS:HG	1.57	0.70
5:E:304:THR:HG23	6:F:296:THR:O	1.91	0.70
6:F:253:ASN:HB3	6:F:256:ILE:HD11	1.72	0.70
7:G:27:LEU:HD21	7:G:55:LEU:HG	1.73	0.70
10:O:257:SER:HB3	10:O:261:LYS:CE	2.22	0.70
11:P:99:LEU:O	15:P:212:HOH:O	2.09	0.70
1:A:170:THR:HA	1:A:173:LYS:CD	2.21	0.70
1:A:183:THR:N	15:A:602:HOH:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:ALA:O	1:A:283:THR:OG1	2.05	0.70
1:A:294:LEU:HA	1:A:299:TYR:CE1	2.27	0.70
2:B:119:ILE:HA	2:B:123:LYS:HB2	1.74	0.70
2:B:343:ILE:O	2:B:347:ILE:HB	1.91	0.70
3:C:8:PHE:O	3:C:11:SER:OG	2.06	0.70
3:C:321:ASP:O	3:C:325:ARG:HG2	1.92	0.70
5:E:214:PHE:O	5:E:218:CYS:N	2.25	0.70
5:E:255:LEU:CD1	6:F:282:GLN:CD	2.51	0.70
8:H:17:LEU:HD13	8:H:43:LEU:HB3	1.73	0.70
8:H:32:ALA:N	8:H:37:TYR:OH	2.24	0.70
9:N:142:ARG:HH11	9:N:149:GLN:HE21	1.36	0.70
9:N:170:VAL:CA	10:O:690:ALA:O	2.31	0.70
10:O:17:LEU:CA	10:O:41:ASP:OD2	2.40	0.70
10:O:212:LEU:HD11	10:O:261:LYS:C	2.12	0.70
10:O:340:VAL:HG22	10:O:387:ALA:HB1	1.74	0.70
10:O:377:ASN:OD1	10:O:426:ASP:OD2	2.10	0.70
1:A:354:LEU:HA	1:A:357:GLU:HG3	1.73	0.70
5:E:136:TRP:HZ2	5:E:167:ALA:HA	1.57	0.70
5:E:144:GLY:H	5:E:172:PRO:HD2	1.56	0.70
5:E:322:VAL:HG22	6:F:279:PHE:CZ	2.26	0.70
6:F:117:LYS:HZ1	9:N:137:PRO:CD	2.04	0.70
6:F:124:TRP:CZ2	6:F:138:VAL:HB	2.26	0.70
9:N:107:THR:HG23	9:N:111:LYS:HB3	1.73	0.70
10:O:732:GLU:HB2	10:O:744:VAL:HG21	1.73	0.70
12:Q:7:THR:HB	12:Q:45:GLU:HB3	1.73	0.70
10:O:45:LEU:HD21	10:O:60:GLU:HB2	1.74	0.70
10:O:321:ASP:HA	10:O:324:LEU:HD13	1.74	0.70
10:O:385:CYS:N	10:O:427:ASP:OD2	2.23	0.70
13:R:44:ILE:CD1	13:R:84:ILE:HA	2.22	0.70
1:A:76:ASP:O	1:A:78:GLU:N	2.25	0.69
1:A:378:LEU:HD23	1:A:381:LEU:HD22	1.74	0.69
2:B:427:TRP:CZ2	5:E:266:VAL:HA	2.26	0.69
3:C:47:GLY:HA2	3:C:84:PHE:HD1	1.56	0.69
3:C:144:ASP:O	3:C:148:LEU:HG	1.92	0.69
3:C:403:PHE:HZ	6:F:311:VAL:HG13	0.93	0.69
4:D:369:THR:HA	4:D:372:LYS:CD	2.22	0.69
5:E:111:ALA:CB	9:N:121:ASP:OD2	2.39	0.69
5:E:318:LEU:CD1	6:F:282:GLN:CG	2.70	0.69
5:E:331:ILE:HG23	7:G:177:TRP:HZ2	1.57	0.69
7:G:142:GLN:HG2	7:G:143:GLY:H	1.57	0.69
9:N:145:TYR:HB2	9:N:150:MSE:CG	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:544:TYR:CE1	10:O:548:PHE:HB2	2.27	0.69
10:O:622:MET:HE1	10:O:653:ILE:HD13	1.74	0.69
11:P:29:ARG:O	15:P:213:HOH:O	2.09	0.69
11:P:46:LYS:HB2	11:P:51:LEU:HD21	1.73	0.69
11:P:69:PRO:HB3	12:Q:59:GLU:OE2	1.91	0.69
11:P:74:THR:O	15:P:211:HOH:O	2.09	0.69
12:Q:86:MET:CG	12:Q:87:SER:N	2.47	0.69
1:A:408:ARG:HA	1:A:411:ILE:HD12	1.72	0.69
1:A:436:LEU:O	1:A:440:LEU:HG	1.92	0.69
2:B:211:ASN:O	2:B:215:LYS:N	2.24	0.69
4:D:369:THR:HB	6:F:270:LEU:HD21	1.74	0.69
5:E:60:LEU:HA	5:E:63:LEU:CD1	2.21	0.69
5:E:258:ASN:HB2	5:E:261:TYR:CB	2.22	0.69
10:O:18:LEU:HD12	10:O:67:ASN:OD1	1.92	0.69
10:O:286:ILE:HG23	10:O:315:LEU:HA	1.73	0.69
10:O:529:ILE:HG23	10:O:533:LEU:HB2	1.74	0.69
12:Q:7:THR:N	12:Q:44:ILE:N	2.41	0.69
12:Q:15:GLU:CG	12:Q:45:GLU:CG	2.70	0.69
12:Q:41:LYS:HE2	12:Q:44:ILE:N	2.05	0.69
1:A:172:LYS:HE2	1:A:172:LYS:HA	1.73	0.69
1:A:198:ARG:HA	1:A:201:HIS:HD2	1.58	0.69
1:A:352:PHE:HA	1:A:355:PHE:HD2	1.56	0.69
3:C:283:SER:HA	3:C:286:PHE:HB2	1.73	0.69
5:E:246:TRP:CB	6:F:224:GLN:C	2.57	0.69
5:E:314:ALA:CB	6:F:289:MET:HE1	2.15	0.69
6:F:114:GLN:HG3	9:N:133:LYS:O	1.88	0.69
9:N:140:GLN:O	9:N:170:VAL:O	2.10	0.69
10:O:10:PHE:HE2	10:O:60:GLU:HG2	1.53	0.69
10:O:284:ASN:O	10:O:288:GLN:N	2.24	0.69
10:O:384:VAL:N	10:O:427:ASP:OD2	2.26	0.69
10:O:726:ILE:HD12	10:O:733:ARG:HG2	1.74	0.69
1:A:79:ASN:HB3	1:A:390:LEU:HD11	1.74	0.69
1:A:404:GLN:HA	1:A:407:ASN:HD22	1.57	0.69
2:B:273:ARG:NH2	2:B:276:CYS:SG	2.63	0.69
3:C:220:MET:O	3:C:223:SER:OG	2.10	0.69
3:C:248:ILE:O	3:C:252:PHE:HB3	1.91	0.69
3:C:352:ASN:ND2	3:C:355:ASP:HB2	2.07	0.69
5:E:66:VAL:HG13	6:F:195:ALA:HB3	1.73	0.69
6:F:236:LYS:HD3	6:F:239:LEU:HD23	1.73	0.69
10:O:7:VAL:HG23	10:O:52:PRO:HG2	1.74	0.69
10:O:20:THR:HG21	10:O:38:ARG:CG	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:45:LEU:CD2	10:O:57:LEU:HA	2.11	0.69
10:O:185:ILE:HD11	10:O:207:PHE:CE1	2.27	0.69
10:O:203:TYR:O	10:O:208:GLU:N	2.25	0.69
11:P:15:PHE:CD2	12:Q:16:TYR:HB3	2.25	0.69
11:P:74:THR:O	15:P:216:HOH:O	2.10	0.69
13:R:44:ILE:HG21	13:R:83:CYS:O	1.93	0.69
1:A:251:TRP:HZ2	1:A:291:LEU:HG	1.58	0.69
1:A:431:THR:HG23	1:A:436:LEU:HB2	1.74	0.69
2:B:331:LYS:O	2:B:334:HIS:ND1	2.26	0.69
2:B:427:TRP:CZ3	5:E:266:VAL:HG22	2.27	0.69
3:C:385:GLU:OE2	3:C:389:ARG:NH1	2.25	0.69
5:E:78:MET:SD	5:E:106:ARG:NH1	2.65	0.69
5:E:139:SER:HA	5:E:145:CYS:SG	2.33	0.69
6:F:43:LEU:HB3	6:F:191:ALA:HB2	1.75	0.69
6:F:69:ILE:HG13	6:F:91:SER:HB3	1.74	0.69
10:O:219:TYR:HE2	10:O:246:GLU:CD	1.96	0.69
10:O:568:TYR:HB3	13:R:18:LYS:HG2	1.73	0.69
10:O:710:ARG:HB3	10:O:711:PHE:HD1	1.57	0.69
10:O:733:ARG:NE	13:R:87:TRP:HH2	1.91	0.69
13:R:38:VAL:HB	13:R:39:VAL:HA	1.75	0.69
1:A:368:LYS:O	1:A:372:SER:N	2.25	0.69
1:A:454:ASP:HB3	1:A:457:SER:HB3	1.73	0.69
2:B:47:PRO:HB2	2:B:51:LEU:HG	1.75	0.69
3:C:140:SER:HB3	3:C:180:HIS:CG	2.28	0.69
3:C:253:ILE:HA	3:C:256:LEU:HB2	1.74	0.69
5:E:111:ALA:HB3	9:N:121:ASP:OD2	1.93	0.69
6:F:254:HIS:NE2	7:G:163:ARG:CB	2.56	0.69
6:F:257:LEU:HD21	7:G:174:LEU:HG	1.73	0.69
9:N:102:LEU:HA	9:N:115:ILE:O	1.93	0.69
10:O:7:VAL:CG2	10:O:52:PRO:CG	2.71	0.69
10:O:22:LYS:C	10:O:25:VAL:HG13	2.13	0.69
10:O:431:PHE:O	10:O:435:TYR:HB2	1.92	0.69
10:O:632:ILE:HG13	10:O:636:SER:HB2	1.75	0.69
11:P:21:SER:O	15:P:219:HOH:O	2.11	0.69
11:P:35:LEU:O	15:P:218:HOH:O	2.10	0.69
1:A:208:TYR:HB3	1:A:214:LEU:HA	1.74	0.69
1:A:266:GLU:OE1	1:A:271:ARG:NH1	2.25	0.69
1:A:411:ILE:HA	1:A:414:PHE:CE1	2.28	0.69
1:A:443:LEU:O	1:A:447:GLY:N	2.24	0.69
5:E:77:VAL:HG11	5:E:98:LEU:O	1.92	0.69
6:F:82:GLU:HA	6:F:188:TYR:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:201:ASP:OD1	6:F:222:ILE:HG21	1.91	0.69
7:G:98:HIS:HD2	7:G:135:ALA:HB2	1.58	0.69
10:O:248:ILE:HA	10:O:251:ARG:HB2	1.73	0.69
11:P:21:SER:OG	15:P:214:HOH:O	2.10	0.69
1:A:193:ILE:HB	1:A:196:SER:HB2	1.75	0.69
1:A:238:CYS:O	1:A:242:ILE:HG12	1.92	0.69
2:B:94:GLN:O	2:B:97:THR:OG1	2.05	0.69
2:B:353:ASN:O	2:B:357:GLN:NE2	2.25	0.69
5:E:145:CYS:O	5:E:169:VAL:HA	1.93	0.69
5:E:230:LYS:NZ	6:F:203:VAL:O	2.25	0.69
5:E:319:MET:HE1	8:H:203:TYR:C	2.12	0.69
6:F:34:GLY:CA	6:F:171:VAL:HG23	2.23	0.69
6:F:41:VAL:N	6:F:74:GLY:O	2.25	0.69
6:F:215:SER:HB3	7:G:200:GLU:OE2	1.88	0.69
7:G:199:LYS:NZ	8:H:208:GLU:HG2	2.08	0.69
8:H:79:GLN:OE1	8:H:80:ARG:NH1	2.26	0.69
9:N:108:LEU:HD23	10:O:693:VAL:HB	1.75	0.69
9:N:173:LEU:HD12	10:O:695:ARG:HG2	1.34	0.69
10:O:303:ALA:O	10:O:305:SER:OG	2.10	0.69
11:P:11:LYS:CG	11:P:91:GLU:HG3	2.23	0.69
11:P:15:PHE:HE2	12:Q:16:TYR:CB	1.79	0.69
11:P:17:ASP:O	15:P:217:HOH:O	2.10	0.69
13:R:56:CYS:SG	13:R:80:HIS:HB3	2.33	0.69
1:A:133:GLU:OE2	1:A:136:ARG:NH2	2.19	0.69
1:A:345:ASN:O	1:A:349:SER:HB2	1.92	0.69
2:B:28:PRO:HA	10:O:648:ARG:HD2	1.71	0.69
2:B:442:LEU:HD22	6:F:309:PHE:HE2	1.54	0.69
3:C:278:LEU:HD12	3:C:281:LYS:HD3	1.74	0.69
4:D:8:ASP:OD2	4:D:32:LYS:NZ	2.26	0.69
4:D:156:LEU:HD22	4:D:197:TYR:CD2	2.28	0.69
5:E:189:TYR:HB3	5:E:193:TYR:O	1.93	0.69
7:G:7:PRO:HD3	7:G:40:VAL:N	2.08	0.69
8:H:196:GLN:O	8:H:200:LEU:HG	1.93	0.69
9:N:162:MSE:H	9:N:165:SER:HB2	1.58	0.69
10:O:9:ASP:H	10:O:56:ARG:NH1	1.90	0.69
10:O:50:PRO:HD3	10:O:53:LEU:HD22	1.75	0.69
10:O:211:PHE:C	10:O:262:VAL:HG23	2.04	0.69
10:O:308:LEU:HB2	10:O:309:PRO:HD3	1.75	0.69
10:O:549:SER:O	13:R:33:TRP:CH2	2.40	0.69
10:O:693:VAL:O	10:O:699:LEU:CD2	2.39	0.69
10:O:693:VAL:HG12	10:O:699:LEU:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:VAL:O	1:A:249:GLN:NE2	2.23	0.69
1:A:386:ASP:O	1:A:390:LEU:HG	1.92	0.69
3:C:286:PHE:HA	3:C:294:LEU:HD12	1.73	0.69
4:D:223:LEU:HD12	4:D:226:LEU:HD23	1.75	0.69
4:D:403:GLN:HB2	6:F:237:LEU:CD2	2.22	0.69
5:E:327:LEU:HD21	7:G:185:LEU:CD2	2.20	0.69
6:F:35:VAL:O	6:F:170:SER:N	2.26	0.69
6:F:114:GLN:CG	9:N:132:GLU:C	2.61	0.69
6:F:241:TYR:CZ	6:F:251:PRO:HD2	2.27	0.69
6:F:261:TYR:OH	7:G:107:ARG:N	2.26	0.69
7:G:194:ARG:O	7:G:198:HIS:N	2.22	0.69
10:O:594:VAL:HG13	10:O:598:GLU:CB	2.22	0.69
10:O:620:VAL:HG21	10:O:653:ILE:HG22	1.75	0.69
10:O:681:GLN:NE2	10:O:728:LYS:HZ1	1.88	0.69
2:B:96:LEU:O	2:B:99:ILE:HG13	1.93	0.68
2:B:143:LYS:HE2	10:O:408:GLU:N	2.07	0.68
3:C:80:GLN:HA	3:C:83:LEU:HD12	1.75	0.68
10:O:16:LYS:HZ2	10:O:40:SER:N	1.89	0.68
10:O:203:TYR:CE2	10:O:208:GLU:CG	2.73	0.68
10:O:676:ARG:NH2	10:O:710:ARG:CZ	2.56	0.68
10:O:732:GLU:HB2	10:O:744:VAL:CG2	2.23	0.68
12:Q:86:MET:HE1	12:Q:91:LEU:N	2.08	0.68
13:R:67:GLU:HG3	13:R:70:VAL:N	2.07	0.68
1:A:91:TYR:O	1:A:96:ARG:NH2	2.20	0.68
3:C:13:ARG:HE	3:C:45:VAL:HB	1.57	0.68
3:C:384:ILE:O	3:C:388:GLU:HG2	1.93	0.68
4:D:316:TYR:CZ	7:G:145:LEU:CB	2.75	0.68
6:F:75:LYS:HG2	6:F:84:MET:SD	2.32	0.68
6:F:257:LEU:CD2	7:G:170:ILE:HG23	2.23	0.68
7:G:41:TYR:HB3	7:G:70:PHE:CG	2.28	0.68
10:O:10:PHE:CD2	10:O:56:ARG:HG3	2.17	0.68
11:P:62:PHE:O	15:P:221:HOH:O	2.11	0.68
12:Q:41:LYS:CE	12:Q:44:ILE:HG12	2.23	0.68
2:B:169:GLN:HE21	2:B:173:ARG:HD3	1.58	0.68
6:F:46:LEU:HA	6:F:49:LEU:HG	1.74	0.68
6:F:73:ILE:CG1	6:F:85:ASN:HB3	2.23	0.68
6:F:205:ARG:CZ	6:F:219:GLU:CG	2.59	0.68
7:G:116:LEU:HA	7:G:119:ASP:OD1	1.93	0.68
10:O:285:ILE:HB	10:O:294:MET:HE1	1.72	0.68
10:O:696:HIS:NE2	10:O:719:LYS:HA	2.07	0.68
1:A:368:LYS:HD2	1:A:371:GLU:CB	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:135:THR:O	2:B:139:LEU:N	2.27	0.68
2:B:176:HIS:O	2:B:180:GLN:N	2.19	0.68
4:D:403:GLN:CB	6:F:237:LEU:HD21	2.24	0.68
7:G:18:LEU:O	7:G:22:THR:N	2.20	0.68
8:H:153:TRP:HE1	8:H:165:ARG:HG3	1.58	0.68
9:N:136:ILE:HG21	9:N:169:LEU:HD21	1.76	0.68
9:N:138:PRO:HA	9:N:141:GLN:HB2	1.75	0.68
10:O:578:THR:HG22	10:O:579:THR:H	1.58	0.68
10:O:618:LEU:HD12	10:O:621:LYS:HD3	1.75	0.68
11:P:3:VAL:HG23	11:P:5:LEU:HD11	1.76	0.68
11:P:21:SER:OG	15:P:220:HOH:O	2.11	0.68
1:A:353:LYS:HG2	1:A:356:LEU:HD22	1.75	0.68
1:A:410:LEU:HD22	1:A:414:PHE:HB3	1.74	0.68
2:B:146:ARG:O	2:B:150:LYS:N	2.26	0.68
5:E:147:LEU:HB3	5:E:151:ASP:O	1.92	0.68
6:F:47:VAL:HG11	6:F:85:ASN:OD1	1.94	0.68
6:F:94:VAL:CG2	6:F:99:ILE:HG13	2.24	0.68
7:G:99:LEU:HD23	7:G:160:ARG:HD2	1.75	0.68
10:O:22:LYS:HB3	10:O:67:ASN:CG	2.07	0.68
10:O:685:VAL:CG2	10:O:725:LEU:HD21	2.24	0.68
11:P:36:LYS:O	15:P:215:HOH:O	2.10	0.68
11:P:93:PHE:CD1	12:Q:51:SER:CA	2.73	0.68
1:A:220:CYS:O	1:A:224:ALA:N	2.26	0.68
3:C:52:GLN:HA	3:C:91:GLU:CB	2.23	0.68
3:C:191:ILE:O	3:C:195:LEU:N	2.17	0.68
10:O:38:ARG:NH2	10:O:101:MET:HE3	2.08	0.68
10:O:38:ARG:HH22	10:O:101:MET:HE2	1.50	0.68
10:O:188:PHE:CD2	10:O:207:PHE:CB	2.70	0.68
10:O:381:PRO:HG3	10:O:384:VAL:CA	2.23	0.68
11:P:45:TYR:O	15:P:211:HOH:O	2.09	0.68
1:A:204:LEU:CD1	1:A:217:ALA:HA	2.24	0.68
2:B:47:PRO:O	2:B:51:LEU:N	2.24	0.68
2:B:322:ASP:O	2:B:325:GLU:HG3	1.94	0.68
4:D:388:ILE:HA	4:D:391:THR:OG1	1.94	0.68
5:E:115:GLU:OE1	9:N:130:VAL:HA	1.93	0.68
6:F:267:LEU:HD22	7:G:177:TRP:CZ2	2.29	0.68
7:G:7:PRO:HG3	7:G:37:ALA:HB1	1.74	0.68
7:G:36:GLU:HA	7:G:95:LYS:NZ	2.08	0.68
2:B:132:TYR:HE1	2:B:154:LYS:HB2	1.58	0.68
2:B:168:LEU:O	2:B:172:LEU:HG	1.93	0.68
9:N:142:ARG:NH2	10:O:743:TYR:CE1	2.62	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:344:LEU:O	10:O:347:HIS:HB3	1.92	0.68
2:B:342:PHE:O	2:B:346:HIS:N	2.19	0.68
2:B:428:THR:CG2	6:F:292:LEU:HD21	2.24	0.68
3:C:369:ASN:HB3	3:C:371:ALA:HB3	1.76	0.68
10:O:10:PHE:CD2	10:O:56:ARG:CA	2.66	0.68
10:O:14:TRP:CD1	10:O:63:ILE:HD13	2.28	0.68
10:O:80:GLU:HA	10:O:158:ILE:HG21	1.76	0.68
10:O:101:MET:CE	10:O:139:ILE:HD11	2.23	0.68
10:O:385:CYS:HA	10:O:388:PRO:HD2	1.75	0.68
10:O:473:LEU:HD22	10:O:512:LEU:HD11	1.76	0.68
10:O:608:LYS:HA	10:O:611:THR:HG22	1.76	0.68
10:O:728:LYS:HD3	10:O:730:TYR:HE2	1.59	0.68
11:P:43:ARG:NH1	15:P:241:HOH:O	2.25	0.68
11:P:57:LEU:HA	11:P:60:CYS:HB2	1.74	0.68
13:R:66:GLU:O	13:R:70:VAL:HG21	1.94	0.68
13:R:75:CYS:HB2	13:R:77:HIS:CD2	2.28	0.68
1:A:420:ALA:CB	1:A:460:LEU:HB3	2.22	0.68
2:B:163:GLU:HB3	2:B:165:TYR:HE2	1.59	0.68
2:B:265:TYR:O	2:B:269:GLY:N	2.24	0.68
3:C:306:ASN:O	3:C:310:LEU:HG	1.93	0.68
4:D:317:ASN:OD1	7:G:144:LYS:CD	2.41	0.68
4:D:385:LEU:HB2	6:F:238:ILE:HD11	1.76	0.68
6:F:58:MET:HB3	6:F:66:VAL:HG11	1.74	0.68
7:G:188:ILE:CB	8:H:197:LEU:CD1	2.72	0.68
9:N:120:THR:HA	9:N:155:THR:HG21	1.75	0.68
10:O:107:TYR:O	10:O:110:THR:OG1	2.09	0.68
10:O:330:LEU:HD12	10:O:330:LEU:N	2.09	0.68
10:O:393:LYS:HA	10:O:396:ASP:HB2	1.76	0.68
11:P:44:LEU:O	11:P:51:LEU:N	2.22	0.68
1:A:258:VAL:HG13	1:A:285:LEU:HD22	1.74	0.67
1:A:260:LYS:O	1:A:265:PRO:HD2	1.94	0.67
5:E:111:ALA:HB3	9:N:121:ASP:CG	2.14	0.67
7:G:110:CYS:HB3	7:G:151:LEU:HB3	1.76	0.67
10:O:286:ILE:HD13	10:O:315:LEU:HB2	1.74	0.67
10:O:301:LEU:O	10:O:305:SER:HA	1.94	0.67
10:O:376:VAL:O	10:O:384:VAL:CG1	2.41	0.67
10:O:568:TYR:OH	13:R:21:ARG:CD	2.27	0.67
2:B:300:LYS:O	2:B:303:LYS:HG2	1.94	0.67
3:C:340:HIS:HA	3:C:343:GLU:OE1	1.94	0.67
3:C:352:ASN:HB3	3:C:357:MET:N	2.07	0.67
5:E:244:LYS:HE3	6:F:231:LEU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:257:LEU:HD22	7:G:170:ILE:CG2	2.22	0.67
10:O:16:LYS:NZ	10:O:40:SER:H	1.87	0.67
10:O:193:GLN:HE21	10:O:195:LYS:H	1.41	0.67
10:O:260:THR:C	10:O:263:ILE:H	1.98	0.67
10:O:285:ILE:HD13	10:O:294:MET:H	1.58	0.67
10:O:339:PHE:HD2	10:O:390:LEU:HD12	1.55	0.67
11:P:9:ARG:NE	15:P:236:HOH:O	2.26	0.67
11:P:80:ARG:O	15:P:222:HOH:O	2.11	0.67
12:Q:49:PHE:HB2	12:Q:54:LEU:HD22	1.74	0.67
1:A:145:LEU:O	1:A:148:ALA:N	2.21	0.67
3:C:159:LEU:HA	3:C:162:LEU:HG	1.76	0.67
5:E:74:ASN:HA	5:E:141:PRO:HB2	1.76	0.67
5:E:315:ILE:HG21	8:H:207:LEU:CD1	1.98	0.67
7:G:191:GLN:HA	7:G:194:ARG:HD3	1.77	0.67
8:H:93:ILE:HG12	8:H:106:MET:HE3	1.76	0.67
10:O:323:GLY:O	10:O:327:THR:OG1	2.12	0.67
11:P:4:PHE:HE1	12:Q:66:LYS:HZ3	1.43	0.67
11:P:11:LYS:HG2	11:P:91:GLU:HG3	1.76	0.67
12:Q:28:THR:HG22	12:Q:32:MET:HG2	1.76	0.67
13:R:50:MET:O	13:R:65:SER:HA	1.94	0.67
13:R:77:HIS:CE1	13:R:84:ILE:HD11	2.29	0.67
2:B:366:TYR:OH	4:D:340:SER:OG	1.78	0.67
10:O:103:CYS:SG	12:Q:31:ALA:C	2.72	0.67
10:O:427:ASP:HB3	10:O:430:VAL:CB	2.23	0.67
10:O:567:ASN:CG	13:R:22:PHE:HA	2.15	0.67
10:O:701:GLN:HA	10:O:704:ILE:HD12	1.75	0.67
1:A:208:TYR:OH	1:A:216:ASN:HB2	1.94	0.67
1:A:302:ALA:O	1:A:306:LEU:HG	1.95	0.67
1:A:422:MET:SD	1:A:436:LEU:HD11	2.34	0.67
2:B:57:VAL:HG12	2:B:68:GLY:HA2	1.74	0.67
3:C:177:ASP:HB3	3:C:180:HIS:CD2	2.29	0.67
4:D:58[B]:SER:OG	4:D:61:ILE:N	2.27	0.67
5:E:113:ALA:HA	9:N:129:ARG:N	2.09	0.67
6:F:69:ILE:HG22	6:F:89:LEU:HD12	1.76	0.67
6:F:114:GLN:CG	9:N:133:LYS:N	2.56	0.67
7:G:66:LEU:HD13	7:G:85:LEU:HD13	1.76	0.67
10:O:483:SER:HA	10:O:507:PHE:CE2	2.29	0.67
1:A:168:GLU:OE1	1:A:171:ARG:NE	2.28	0.67
2:B:175:LEU:HD22	2:B:193:GLN:HG2	1.77	0.67
3:C:100:PHE:HA	3:C:104:CYS:HB2	1.75	0.67
3:C:365:GLU:OE1	3:C:372:MET:HE1	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:112:ALA:HB1	9:N:126:ILE:C	1.78	0.67
7:G:104:LEU:HD12	7:G:116:LEU:HD11	1.77	0.67
10:O:9:ASP:C	10:O:56:ARG:NH1	2.45	0.67
10:O:16:LYS:CD	10:O:41:ASP:N	2.56	0.67
10:O:107:TYR:CB	12:Q:98:SER:OG	2.42	0.67
10:O:551:ARG:O	13:R:33:TRP:NE1	2.27	0.67
10:O:695:ARG:HA	10:O:740:GLU:CA	2.23	0.67
12:Q:7:THR:N	12:Q:44:ILE:CB	2.45	0.67
2:B:329:ILE:HG22	2:B:333:ASN:ND2	2.09	0.67
5:E:240:LEU:HA	5:E:243:ASN:HD22	1.59	0.67
5:E:243:ASN:HB3	6:F:230:MET:HE1	1.74	0.67
6:F:59:ARG:O	6:F:63:GLY:N	2.27	0.67
6:F:269:VAL:HG12	6:F:270:LEU:HD23	1.75	0.67
7:G:71:ALA:HB1	7:G:164:LYS:H	1.58	0.67
7:G:129:GLU:HA	7:G:132:ILE:HD12	1.76	0.67
10:O:181:ILE:HB	10:O:185:ILE:HD13	1.77	0.67
10:O:207:PHE:HD2	10:O:258:SER:OG	1.78	0.67
10:O:219:TYR:HE2	10:O:246:GLU:OE1	1.78	0.67
10:O:513:GLN:HB3	10:O:516:ALA:HB2	1.75	0.67
2:B:19:GLU:HA	10:O:652:LYS:CD	2.25	0.67
2:B:149:PHE:HZ	2:B:196:GLU:HB3	1.59	0.67
2:B:194:LEU:HD23	2:B:224:ILE:HG12	1.77	0.67
2:B:297:GLN:OE1	13:R:70:VAL:CG1	2.38	0.67
2:B:367:THR:HG21	2:B:413:HIS:HD2	1.59	0.67
2:B:424:LEU:O	2:B:427:TRP:HB3	1.94	0.67
3:C:253:ILE:HA	3:C:256:LEU:HD12	1.77	0.67
4:D:366:ALA:CB	4:D:368:PRO:HD2	2.25	0.67
5:E:200:PRO:HD2	5:E:222:TYR:CA	2.25	0.67
5:E:272:LYS:HA	5:E:275:GLN:HG2	1.77	0.67
6:F:54:HIS:CA	6:F:88:GLU:HG2	2.25	0.67
10:O:47:VAL:HG21	10:O:49:TYR:CE1	2.28	0.67
10:O:100:TYR:CG	12:Q:35:GLY:HA2	2.30	0.67
10:O:202:PHE:HB3	10:O:206:ILE:CD1	2.08	0.67
10:O:485:ASP:HA	10:O:488:ASN:HD22	1.60	0.67
13:R:72:TRP:HA	13:R:76:ASN:OD1	1.94	0.67
4:D:54:ASN:ND2	4:D:56:ASN:OD1	2.28	0.67
6:F:32:ALA:CB	6:F:182:LEU:HA	2.24	0.67
6:F:43:LEU:CD2	6:F:84:MET:HB3	2.25	0.67
8:H:60:ILE:HB	8:H:65:LYS:CE	2.24	0.67
9:N:169:LEU:O	10:O:691:ARG:CA	2.42	0.67
10:O:301:LEU:C	10:O:305:SER:HA	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:681:GLN:NE2	10:O:728:LYS:HZ2	1.92	0.67
11:P:20:GLU:HA	11:P:57:LEU:HB2	1.76	0.67
1:A:477:LEU:HA	1:A:480:LYS:NZ	2.09	0.67
3:C:286:PHE:CD1	3:C:294:LEU:HB2	2.30	0.67
5:E:331:ILE:CG2	7:G:177:TRP:HZ2	2.08	0.67
10:O:202:PHE:CG	10:O:206:ILE:HD11	2.23	0.67
10:O:203:TYR:HD2	10:O:208:GLU:OE1	1.77	0.67
10:O:396:ASP:HB3	10:O:447:LEU:HD13	1.76	0.67
10:O:422:PHE:HA	10:O:425:ILE:HD13	1.77	0.67
10:O:513:GLN:HE22	13:R:34:ALA:CB	2.07	0.67
11:P:51:LEU:O	15:P:223:HOH:O	2.12	0.67
11:P:86:GLU:OE2	15:P:230:HOH:O	2.13	0.67
11:P:90:ILE:O	15:P:226:HOH:O	2.13	0.67
13:R:44:ILE:CG2	13:R:87:TRP:HB2	2.25	0.67
1:A:101:GLN:HA	1:A:115:LEU:HD21	1.77	0.66
5:E:155:GLN:HG2	5:E:188:THR:HG21	1.78	0.66
5:E:263:THR:O	5:E:266:VAL:HB	1.96	0.66
5:E:315:ILE:CB	8:H:207:LEU:CD1	2.72	0.66
5:E:319:MET:CE	8:H:207:LEU:CD1	2.40	0.66
6:F:34:GLY:HA2	6:F:171:VAL:HG23	1.77	0.66
8:H:73:GLY:O	8:H:77:VAL:HG23	1.94	0.66
10:O:32:ARG:HA	10:O:35:TRP:CG	2.30	0.66
10:O:70:ARG:HB3	10:O:74:LYS:HE2	1.76	0.66
3:C:138:LEU:HD21	3:C:166:MET:HG3	1.76	0.66
3:C:254:LYS:O	3:C:257:SER:OG	2.13	0.66
3:C:348:PHE:HB3	3:C:361:HIS:N	2.09	0.66
5:E:96:PHE:N	5:E:137:TYR:HB2	2.10	0.66
5:E:315:ILE:O	5:E:319:MET:HG3	1.95	0.66
6:F:41:VAL:CG2	6:F:119:LEU:HA	2.25	0.66
6:F:54:HIS:CE1	6:F:68:VAL:HB	2.29	0.66
6:F:236:LYS:O	6:F:240:GLU:HG2	1.95	0.66
6:F:255:GLU:OE2	6:F:258:ARG:NE	2.29	0.66
10:O:116:ASN:O	10:O:136:LEU:N	2.29	0.66
10:O:657:MET:HB3	10:O:659:LYS:HZ2	0.92	0.66
12:Q:6:VAL:HG21	12:Q:29:LEU:CD2	2.25	0.66
13:R:79:PHE:CD2	13:R:96:LEU:HD23	2.30	0.66
2:B:125:MET:HG2	2:B:129:GLN:HB2	1.78	0.66
2:B:366:TYR:OH	4:D:340:SER:CB	2.38	0.66
2:B:425:ASP:O	2:B:429:ASN:N	2.25	0.66
2:B:434:LEU:O	2:B:437:ALA:HB3	1.94	0.66
3:C:248:ILE:O	3:C:252:PHE:CB	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:36:GLN:O	5:E:40:LEU:HG	1.95	0.66
10:O:260:THR:N	10:O:262:VAL:HG12	2.06	0.66
10:O:614:ILE:HB	10:O:628:GLU:HA	1.77	0.66
11:P:2:ASP:O	15:P:228:HOH:O	2.13	0.66
1:A:391:ASP:OD2	1:A:394:LEU:HG	1.94	0.66
3:C:225:LYS:HA	3:C:228:ILE:HD12	1.75	0.66
5:E:79:GLY:CA	5:E:113:ALA:HB3	2.24	0.66
6:F:51:ILE:HG23	6:F:125:TYR:CD2	2.30	0.66
6:F:243:LYS:CE	6:F:243:LYS:H	2.07	0.66
7:G:17:LEU:HD13	7:G:20:LYS:HD2	1.78	0.66
7:G:160:ARG:HB3	7:G:163:ARG:NH2	2.10	0.66
7:G:199:LYS:HG3	8:H:209:ASN:OXT	1.92	0.66
8:H:133:PHE:HA	8:H:136:PHE:HB2	1.76	0.66
10:O:9:ASP:H	10:O:56:ARG:HH12	1.41	0.66
10:O:21:ILE:CG2	10:O:68:HIS:C	2.32	0.66
10:O:222:GLU:CG	10:O:242:ARG:HD2	2.07	0.66
10:O:325:ARG:O	10:O:328:SER:N	2.23	0.66
11:P:37:ARG:O	11:P:42:GLN:NE2	2.28	0.66
12:Q:10:SER:HA	12:Q:49:PHE:N	2.02	0.66
3:C:205:TYR:CZ	3:C:209:ILE:HG13	2.31	0.66
3:C:303:TYR:HE1	3:C:328:LEU:HA	1.60	0.66
3:C:332:GLN:HA	3:C:335:GLU:OE1	1.95	0.66
4:D:388:ILE:O	4:D:392:ALA:N	2.27	0.66
5:E:127:VAL:HB	6:F:57:ARG:NH2	2.11	0.66
10:O:222:GLU:OE2	10:O:242:ARG:NH2	2.28	0.66
10:O:312:ILE:HG23	10:O:364:PHE:HD1	1.61	0.66
10:O:421:VAL:O	10:O:424:TYR:N	2.21	0.66
11:P:2:ASP:OD1	15:P:225:HOH:O	2.13	0.66
12:Q:83:PRO:CA	12:Q:84:THR:HG21	2.17	0.66
1:A:107:CYS:SG	1:A:110:LEU:HB2	2.35	0.66
1:A:198:ARG:HA	1:A:201:HIS:CD2	2.30	0.66
8:H:86:PHE:HB2	8:H:87:PRO:HD3	1.77	0.66
9:N:104:LYS:HD2	9:N:112:GLU:HB3	1.76	0.66
9:N:136:ILE:O	9:N:141:GLN:NE2	2.28	0.66
9:N:150:MSE:HA	9:N:159:TYR:HE2	1.61	0.66
10:O:160:ILE:HA	10:O:163:LEU:HD12	1.77	0.66
10:O:211:PHE:CE2	10:O:259:TYR:HB2	2.26	0.66
10:O:212:LEU:HB3	10:O:265:GLU:CB	2.11	0.66
11:P:52:ASP:H	11:P:55:LYS:HD3	1.61	0.66
2:B:225:LYS:HB2	2:B:230:HIS:CE1	2.30	0.66
2:B:424:LEU:CD1	5:E:263:THR:HG22	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:435:ASN:OD1	2:B:436:GLN:N	2.29	0.66
3:C:348:PHE:HD1	3:C:361:HIS:HB2	1.59	0.66
3:C:379:GLU:HA	3:C:382:LYS:HE3	1.78	0.66
5:E:80:LEU:HB2	5:E:114:TYR:CD1	2.31	0.66
5:E:240:LEU:HD13	6:F:163:LEU:HA	1.78	0.66
6:F:273:ASP:HA	6:F:276:LYS:CD	2.25	0.66
7:G:49:LEU:HG	7:G:51:ASN:H	1.59	0.66
9:N:140:GLN:O	9:N:171:LEU:CA	2.38	0.66
11:P:7:ILE:CD1	11:P:27:LEU:HD11	2.25	0.66
3:C:307:ILE:O	3:C:311:THR:HG23	1.96	0.66
5:E:66:VAL:CG1	6:F:195:ALA:HB3	2.26	0.66
5:E:81:MET:HG3	5:E:136:TRP:C	2.16	0.66
7:G:108:MET:SD	7:G:111:ILE:HD13	2.36	0.66
8:H:60:ILE:HG21	8:H:71:LEU:HD21	1.77	0.66
8:H:77:VAL:HG22	8:H:92:THR:CB	2.26	0.66
9:N:169:LEU:C	10:O:691:ARG:CB	2.62	0.66
10:O:106:ARG:NH2	10:O:138:GLU:OE1	2.28	0.66
10:O:145:ASP:HA	10:O:148:ARG:NH2	2.11	0.66
10:O:381:PRO:CG	10:O:383:SER:C	2.63	0.66
10:O:522:ALA:HB1	10:O:558:TYR:HB2	1.78	0.66
10:O:698:ALA:O	10:O:702:GLU:HG3	1.95	0.66
10:O:700:ILE:CB	10:O:718:ILE:HG13	2.24	0.66
11:P:80:ARG:O	15:P:227:HOH:O	2.13	0.66
1:A:76:ASP:C	1:A:77:VAL:O	2.04	0.66
1:A:342:LEU:HD12	1:A:345:ASN:CB	2.26	0.66
2:B:265:TYR:OH	2:B:272:ARG:N	2.18	0.66
2:B:278:LYS:HE3	2:B:311:MET:HB2	1.77	0.66
3:C:100:PHE:HA	3:C:104:CYS:SG	2.35	0.66
3:C:171:LYS:O	3:C:174:GLY:N	2.29	0.66
4:D:368:PRO:O	4:D:372:LYS:HG3	1.95	0.66
5:E:56:LYS:O	5:E:91:ILE:HA	1.96	0.66
6:F:254:HIS:ND1	7:G:162:ILE:HD13	2.11	0.66
9:N:104:LYS:HA	9:N:113:ILE:O	1.96	0.66
9:N:131:GLU:HB2	9:N:138:PRO:HD3	1.78	0.66
10:O:399:LEU:HB3	10:O:449:MET:N	2.11	0.66
10:O:711:PHE:O	10:O:713:PRO:HD3	1.96	0.66
12:Q:1:MET:SD	12:Q:40:SER:OG	2.52	0.66
12:Q:15:GLU:HA	12:Q:45:GLU:OE1	1.96	0.66
1:A:398:VAL:HG22	1:A:399:ARG:HH21	1.59	0.66
1:A:449:ILE:HD12	1:A:462:ALA:HA	1.78	0.66
1:A:451:ALA:CB	1:A:460:LEU:HD11	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:427:TRP:HZ2	5:E:269:LEU:HB3	1.60	0.66
3:C:213:ALA:O	3:C:246:SER:OG	2.06	0.66
4:D:387:LYS:NZ	6:F:253:ASN:ND2	2.44	0.66
6:F:54:HIS:HB2	6:F:88:GLU:HA	1.77	0.66
10:O:94:TYR:CE2	10:O:98:ALA:HB2	2.30	0.66
10:O:147:TRP:O	10:O:151:MET:HG3	1.96	0.66
10:O:209:SER:HB2	10:O:210:PRO:HD3	1.78	0.66
10:O:281:GLU:C	10:O:297:MET:HE2	2.15	0.66
10:O:354:ILE:HD12	10:O:368:LEU:HD21	1.74	0.66
10:O:503:LEU:HD21	13:R:25:LYS:C	2.17	0.66
10:O:688:MET:CG	10:O:731:ILE:HD12	2.26	0.66
11:P:24:VAL:HG21	11:P:51:LEU:HB3	1.77	0.66
11:P:93:PHE:CB	12:Q:52:HIS:CA	2.74	0.66
12:Q:4:ASP:O	12:Q:5:PHE:CG	2.39	0.66
1:A:184:ASP:HA	1:A:187:ASN:HD22	1.61	0.65
1:A:387:ASN:HA	1:A:390:LEU:HD12	1.78	0.65
2:B:225:LYS:HB2	2:B:230:HIS:HE1	1.61	0.65
6:F:41:VAL:HG22	6:F:42:ALA:H	1.60	0.65
6:F:243:LYS:HG3	7:G:172:ARG:NH1	2.11	0.65
6:F:307:ASN:O	6:F:311:VAL:HG23	1.96	0.65
7:G:66:LEU:HD11	7:G:96:LEU:HD21	1.78	0.65
9:N:169:LEU:C	9:N:170:VAL:C	2.54	0.65
10:O:434:PHE:O	10:O:438:MET:HG3	1.96	0.65
10:O:550:GLY:HA3	13:R:35:TRP:O	1.96	0.65
12:Q:86:MET:HE3	12:Q:90:LEU:HB3	1.78	0.65
1:A:199:ARG:HA	1:A:202:ASP:OD2	1.95	0.65
1:A:381:LEU:HD11	1:A:405:ILE:HG21	1.77	0.65
1:A:388:LEU:O	1:A:394:LEU:HB2	1.96	0.65
1:A:456:HIS:O	1:A:458:LYS:NZ	2.21	0.65
2:B:205:TYR:CE1	2:B:213:LYS:HB2	2.30	0.65
2:B:305:ASP:HB3	2:B:308:ILE:CG1	2.26	0.65
3:C:351:ILE:O	8:H:127:SER:N	2.25	0.65
4:D:223:LEU:CD1	4:D:226:LEU:HD23	2.26	0.65
5:E:35:GLN:OE1	5:E:36:GLN:NE2	2.29	0.65
5:E:118:ALA:CB	9:N:133:LYS:HZ3	2.07	0.65
6:F:69:ILE:HG23	6:F:124:TRP:CE3	2.31	0.65
10:O:121:ALA:HB1	10:O:126:GLY:O	1.96	0.65
10:O:127:TYR:HB2	10:O:132:MET:HG3	1.76	0.65
10:O:203:TYR:CE2	10:O:208:GLU:CB	2.80	0.65
10:O:361:ASP:HB3	10:O:364:PHE:CD2	2.31	0.65
13:R:53:CYS:SG	13:R:80:HIS:ND1	2.64	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:75:CYS:SG	13:R:76:ASN:N	2.69	0.65
1:A:82:LEU:CD2	1:A:390:LEU:HD13	2.26	0.65
1:A:378:LEU:O	1:A:381:LEU:HB3	1.96	0.65
2:B:146:ARG:HG2	2:B:229:PRO:CG	2.27	0.65
3:C:299:LEU:HD12	3:C:302:LEU:HD23	1.78	0.65
3:C:353:GLN:N	8:H:127:SER:O	2.20	0.65
5:E:39:ILE:HA	5:E:42:ALA:HB2	1.79	0.65
5:E:77:VAL:HG21	5:E:97:ALA:CB	2.26	0.65
5:E:322:VAL:CG1	6:F:279:PHE:CZ	2.62	0.65
6:F:35:VAL:CG2	6:F:171:VAL:HG22	2.24	0.65
7:G:96:LEU:O	7:G:99:LEU:HB2	1.95	0.65
9:N:141:GLN:HG2	9:N:169:LEU:HD22	1.78	0.65
10:O:695:ARG:HD3	10:O:740:GLU:CB	2.26	0.65
10:O:700:ILE:O	10:O:704:ILE:HG13	1.97	0.65
10:O:733:ARG:HE	13:R:87:TRP:HH2	1.42	0.65
3:C:100:PHE:HE2	3:C:140:SER:HG	1.43	0.65
3:C:381:LEU:HD23	3:C:384:ILE:CD1	2.26	0.65
5:E:149:GLY:H	5:E:210:LYS:HD2	1.61	0.65
6:F:257:LEU:O	6:F:258:ARG:C	2.34	0.65
7:G:116:LEU:HD12	7:G:120:LEU:CD1	2.26	0.65
9:N:170:VAL:N	10:O:690:ALA:O	2.29	0.65
10:O:335:MET:HE2	10:O:336:PRO:HD2	1.76	0.65
10:O:386:LYS:HA	10:O:389:GLU:HB2	1.77	0.65
10:O:396:ASP:CA	10:O:447:LEU:HB3	2.24	0.65
12:Q:7:THR:N	12:Q:44:ILE:H	1.94	0.65
1:A:109:THR:HA	1:A:112:VAL:HG23	1.77	0.65
1:A:119:LEU:CD1	1:A:131:TYR:HA	2.27	0.65
1:A:327:ILE:HG23	1:A:331:LEU:HD12	1.76	0.65
1:A:387:ASN:HA	1:A:390:LEU:CG	2.27	0.65
2:B:28:PRO:CA	10:O:648:ARG:HH11	2.10	0.65
2:B:136:LEU:HD21	2:B:151:THR:HB	1.78	0.65
2:B:315:VAL:HA	2:B:318:TYR:CD2	2.32	0.65
3:C:35:LEU:HG	3:C:68:MET:HB2	1.79	0.65
3:C:263:LEU:HD12	3:C:266:VAL:HB	1.77	0.65
3:C:284:GLU:OE1	3:C:288:ARG:NH2	2.28	0.65
6:F:114:GLN:OE1	9:N:130:VAL:O	2.14	0.65
6:F:309:PHE:O	6:F:313:TYR:HB2	1.97	0.65
7:G:1:MET:N	7:G:9:SER:OG	2.23	0.65
8:H:98:TRP:NE1	8:H:101:THR:HB	2.12	0.65
8:H:196:GLN:HA	8:H:199:ARG:CD	2.26	0.65
9:N:161:ILE:HG23	9:N:165:SER:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:201:LYS:HG2	10:O:205:GLU:OE1	1.96	0.65
10:O:381:PRO:HG2	10:O:384:VAL:CA	2.26	0.65
11:P:101:ASP:HA	11:P:104:LYS:HB2	1.78	0.65
13:R:37:ILE:HA	13:R:72:TRP:NE1	2.11	0.65
1:A:437:GLU:HA	1:A:440:LEU:CD1	2.26	0.65
1:A:469:SER:HA	1:A:472:PHE:CD2	2.30	0.65
2:B:234:MET:O	2:B:237:ILE:HG12	1.97	0.65
2:B:306:PRO:HA	2:B:309:LEU:HG	1.78	0.65
3:C:59:LEU:HB3	3:C:63:PHE:CZ	2.32	0.65
3:C:326:VAL:HB	3:C:328:LEU:CD1	2.27	0.65
3:C:390:LEU:HD21	6:F:298:THR:CG2	2.23	0.65
4:D:388:ILE:CG2	6:F:241:TYR:CD2	2.80	0.65
6:F:243:LYS:HB2	6:F:243:LYS:HZ2	1.60	0.65
7:G:67:LEU:HA	7:G:70:PHE:HD2	1.62	0.65
7:G:188:ILE:HA	8:H:197:LEU:HD13	1.78	0.65
9:N:170:VAL:N	10:O:690:ALA:C	2.43	0.65
10:O:242:ARG:HA	10:O:245:ASP:OD2	1.95	0.65
10:O:260:THR:HA	10:O:263:ILE:HG12	1.79	0.65
10:O:275:LEU:HD11	10:O:279:HIS:HB3	1.77	0.65
10:O:505:ILE:HA	13:R:27:TRP:HB3	1.79	0.65
10:O:513:GLN:NE2	13:R:34:ALA:HB2	2.11	0.65
10:O:610:LEU:HD11	10:O:638:PHE:CE1	2.32	0.65
10:O:626:ASP:HB2	10:O:636:SER:CA	2.26	0.65
11:P:23:THR:O	15:P:224:HOH:O	2.13	0.65
13:R:67:GLU:HG3	13:R:70:VAL:H	1.60	0.65
1:A:197:ILE:HG21	1:A:227:TYR:CE1	2.32	0.65
2:B:417:GLY:HA2	2:B:420:ARG:CZ	2.27	0.65
2:B:424:LEU:HD11	5:E:263:THR:HG22	1.78	0.65
3:C:317:LEU:HD23	3:C:322:MET:CB	2.26	0.65
5:E:246:TRP:HZ2	6:F:231:LEU:HB3	0.89	0.65
6:F:73:ILE:HG12	6:F:85:ASN:HB3	1.79	0.65
6:F:150:LEU:HD21	6:F:167:VAL:HG13	1.78	0.65
7:G:110:CYS:SG	7:G:153:GLU:HA	2.36	0.65
10:O:21:ILE:C	10:O:68:HIS:CA	2.56	0.65
10:O:227:LEU:CD1	10:O:235:TYR:HD1	1.92	0.65
10:O:260:THR:O	10:O:262:VAL:N	2.29	0.65
12:Q:11:LYS:H	12:Q:48:GLN:C	1.99	0.65
13:R:39:VAL:HB	13:R:70:VAL:HG13	1.79	0.65
13:R:88:LEU:HD12	13:R:91:ARG:O	1.96	0.65
1:A:449:ILE:HA	1:A:463:ARG:HB2	1.78	0.65
2:B:139:LEU:HD13	2:B:148:TRP:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:159:LEU:HA	3:C:162:LEU:CG	2.27	0.65
3:C:214:MET:HE3	3:C:248:ILE:HG12	1.78	0.65
3:C:317:LEU:HB3	3:C:322:MET:HE3	1.79	0.65
4:D:1:MET:N	4:D:40:GLU:OE2	2.30	0.65
5:E:150:ILE:HD12	5:E:210:LYS:HE3	1.78	0.65
6:F:245:SER:HA	6:F:250:VAL:HG12	1.79	0.65
8:H:93:ILE:HD13	8:H:110:ARG:HD3	1.79	0.65
10:O:16:LYS:HD2	10:O:41:ASP:H	1.54	0.65
10:O:415:LEU:HA	10:O:418:PHE:HD2	1.60	0.65
10:O:506:SER:OG	13:R:29:ALA:HB2	1.91	0.65
10:O:528:ALA:CB	10:O:586:LEU:HD21	2.27	0.65
10:O:556:LEU:HD12	10:O:559:LEU:HD23	1.79	0.65
11:P:17:ASP:O	15:P:231:HOH:O	2.15	0.65
13:R:35:TRP:CD1	13:R:37:ILE:HB	2.32	0.65
1:A:274:ARG:CB	1:A:277:GLN:HG3	2.24	0.65
1:A:463:ARG:HD3	1:A:464:ASP:O	1.97	0.65
2:B:72:LEU:HB2	2:B:95:LEU:HD21	1.78	0.65
2:B:159:TYR:CD1	2:B:162:ARG:HB3	2.32	0.65
2:B:240:CYS:O	2:B:244:MET:N	2.29	0.65
3:C:13:ARG:HH21	3:C:44:THR:HB	1.62	0.65
3:C:34:LEU:HB3	3:C:42:LEU:HD21	1.79	0.65
3:C:103:LEU:O	3:C:107:LEU:N	2.23	0.65
3:C:135:THR:HG22	3:C:166:MET:HA	1.79	0.65
4:D:95:ARG:HG2	10:O:531:GLN:OE1	1.95	0.65
5:E:280:LEU:CD1	6:F:303:ASN:HD21	2.10	0.65
6:F:261:TYR:OH	7:G:107:ARG:NE	2.04	0.65
8:H:115:ARG:HA	8:H:118:PHE:CD2	2.31	0.65
8:H:125:TYR:HE1	8:H:128:ILE:HG22	1.60	0.65
10:O:87:TYR:HA	10:O:90:TYR:CD2	2.30	0.65
10:O:588:PHE:HZ	10:O:599:LEU:HD22	1.62	0.65
11:P:4:PHE:HZ	12:Q:66:LYS:HE2	0.50	0.65
12:Q:6:VAL:HA	12:Q:41:LYS:HZ1	0.63	0.65
2:B:371:ILE:HB	2:B:407:GLN:O	1.97	0.65
2:B:414:GLN:CA	2:B:415:LYS:N	2.59	0.65
2:B:427:TRP:HE1	5:E:270:SER:N	1.95	0.65
5:E:33:LYS:HD2	5:E:130:LEU:CB	2.26	0.65
5:E:84:LYS:HG3	5:E:91:ILE:HD12	1.79	0.65
5:E:142:GLY:HA2	5:E:173:THR:OG1	1.96	0.65
7:G:209:ILE:O	7:G:213:VAL:HG23	1.97	0.65
8:H:33:THR:HG21	8:H:36:VAL:HG23	1.78	0.65
10:O:21:ILE:HA	10:O:38:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:25:VAL:HA	10:O:68:HIS:CE1	2.32	0.65
10:O:211:PHE:CE2	10:O:259:TYR:CG	2.83	0.65
10:O:309:PRO:O	10:O:313:GLN:HG3	1.96	0.65
11:P:35:LEU:CD1	12:Q:43:ARG:HD2	2.27	0.65
12:Q:86:MET:CE	12:Q:90:LEU:HB3	2.26	0.65
1:A:327:ILE:HD11	1:A:359:GLU:HG3	1.78	0.64
2:B:25:ASN:N	10:O:652:LYS:NZ	2.45	0.64
2:B:119:ILE:HB	2:B:128:LEU:HD13	1.79	0.64
2:B:200:LEU:O	2:B:203:GLN:HB3	1.97	0.64
4:D:365:GLU:HA	6:F:274:LYS:HZ2	1.63	0.64
5:E:182:ASN:ND2	5:E:202:GLU:OE2	2.30	0.64
5:E:246:TRP:HZ2	6:F:231:LEU:CA	2.10	0.64
7:G:24:GLY:O	7:G:28:THR:HG23	1.97	0.64
8:H:99:SER:O	8:H:100:GLU:HG2	1.96	0.64
10:O:285:ILE:HA	10:O:288:GLN:O	1.97	0.64
10:O:505:ILE:HG21	10:O:532:GLU:OE1	1.96	0.64
11:P:8:ARG:HG2	11:P:13:THR:HG22	1.79	0.64
1:A:176:LEU:O	1:A:180:LYS:HG3	1.97	0.64
1:A:453:VAL:HG13	1:A:459:ILE:O	1.97	0.64
2:B:125:MET:CG	2:B:158:LEU:HD13	2.27	0.64
2:B:136:LEU:HA	2:B:139:LEU:HB2	1.78	0.64
2:B:144:ASN:OD1	2:B:147:LEU:HD11	1.96	0.64
2:B:259:PHE:CE2	2:B:263:LYS:HD2	2.33	0.64
3:C:76:THR:O	3:C:79:SER:OG	2.08	0.64
5:E:128:GLY:HA3	6:F:61:GLN:NE2	2.12	0.64
6:F:250:VAL:HG13	6:F:251:PRO:HD2	1.79	0.64
6:F:260:ALA:CB	7:G:174:LEU:HD13	2.09	0.64
8:H:125:TYR:CE1	8:H:128:ILE:HG22	2.32	0.64
9:N:169:LEU:O	9:N:171:LEU:N	2.10	0.64
10:O:48:ALA:C	10:O:50:PRO:HD3	2.16	0.64
11:P:93:PHE:CB	12:Q:52:HIS:H	1.86	0.64
13:R:37:ILE:HG12	13:R:71:ALA:HA	1.77	0.64
13:R:87:TRP:HB3	13:R:96:LEU:HD21	1.77	0.64
2:B:251:PHE:CA	2:B:254:ALA:HB3	2.24	0.64
3:C:135:THR:H	3:C:137:GLN:HG3	1.62	0.64
3:C:153:LYS:HA	8:H:55:TYR:CZ	2.32	0.64
3:C:186:TYR:OH	3:C:222:GLU:OE1	2.16	0.64
3:C:218:HIS:HA	3:C:221:LEU:HD12	1.78	0.64
5:E:45:TRP:CH2	5:E:164:PRO:HD3	2.31	0.64
5:E:322:VAL:HA	6:F:279:PHE:CZ	2.31	0.64
9:N:143:LEU:O	9:N:150:MSE:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:161:ILE:HG23	9:N:165:SER:CB	2.27	0.64
10:O:20:THR:HG21	10:O:38:ARG:HG2	1.79	0.64
10:O:57:LEU:HD11	10:O:108:LEU:HD21	1.78	0.64
10:O:231:ASN:O	10:O:234:GLN:CB	2.44	0.64
11:P:70:GLN:CA	12:Q:59:GLU:HG2	2.21	0.64
11:P:93:PHE:CG	12:Q:51:SER:C	2.70	0.64
1:A:135:HIS:ND1	1:A:138:LEU:HD23	2.13	0.64
2:B:72:LEU:O	2:B:76:ILE:HG12	1.97	0.64
3:C:300:SER:O	3:C:304:LYS:HG3	1.98	0.64
6:F:51:ILE:HG12	6:F:125:TYR:CD1	2.33	0.64
8:H:57:TRP:HD1	8:H:58:LYS:HD2	1.63	0.64
12:Q:15:GLU:CA	12:Q:45:GLU:OE1	2.45	0.64
1:A:82:LEU:HD21	1:A:390:LEU:HD13	1.80	0.64
1:A:265:PRO:HG2	1:A:269:GLU:OE1	1.97	0.64
1:A:297:ARG:HA	1:A:299:TYR:CE2	2.33	0.64
2:B:77:LYS:HA	2:B:80:PHE:CE1	2.33	0.64
2:B:201:GLU:HB3	2:B:214:LEU:HD21	1.79	0.64
2:B:273:ARG:NH1	2:B:277:LEU:HB3	2.13	0.64
3:C:51:VAL:HB	3:C:90:GLY:HA3	1.79	0.64
3:C:127:ALA:HA	3:C:130:LYS:HB3	1.79	0.64
3:C:309:ARG:O	3:C:313:THR:HG23	1.97	0.64
5:E:114:TYR:CB	9:N:129:ARG:NH1	2.46	0.64
7:G:188:ILE:HG13	8:H:197:LEU:CD1	2.09	0.64
8:H:33:THR:O	8:H:37:TYR:N	2.30	0.64
10:O:47:VAL:C	10:O:49:TYR:HD1	1.99	0.64
10:O:467:TYR:O	10:O:470:THR:OG1	2.12	0.64
10:O:502:ASP:O	10:O:505:ILE:HG12	1.97	0.64
10:O:511:VAL:CG1	13:R:33:TRP:C	2.64	0.64
10:O:551:ARG:CD	13:R:34:ALA:CB	2.75	0.64
11:P:5:LEU:HD23	11:P:73:ALA:HB3	1.80	0.64
1:A:385:LYS:O	1:A:388:LEU:HG	1.97	0.64
5:E:63:LEU:HG	6:F:46:LEU:HB3	1.80	0.64
5:E:84:LYS:HE3	5:E:91:ILE:HD13	1.79	0.64
5:E:241:LEU:CD1	6:F:190:LEU:HB2	2.20	0.64
5:E:255:LEU:HD21	5:E:318:LEU:N	2.13	0.64
6:F:240:GLU:N	6:F:243:LYS:HE2	1.77	0.64
10:O:35:TRP:CH2	12:Q:33:ILE:O	2.50	0.64
10:O:393:LYS:O	10:O:397:ASN:N	2.25	0.64
10:O:428:LYS:HB2	10:O:465:CYS:SG	2.37	0.64
10:O:544:TYR:CE2	10:O:552:LYS:HG2	2.32	0.64
10:O:693:VAL:HG13	10:O:695:ARG:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:7:ILE:HG12	11:P:75:VAL:HG11	1.80	0.64
13:R:37:ILE:HG23	13:R:72:TRP:CD1	2.32	0.64
1:A:368:LYS:CE	1:A:373:LYS:HB2	2.27	0.64
1:A:473:GLU:O	1:A:477:LEU:HG	1.97	0.64
3:C:310:LEU:HD11	3:C:326:VAL:HG21	1.79	0.64
4:D:5:VAL:HG13	4:D:29:ILE:CG2	2.28	0.64
5:E:148:SER:HB2	5:E:210:LYS:CG	2.28	0.64
5:E:322:VAL:CB	6:F:279:PHE:HZ	2.11	0.64
6:F:310:ASN:O	6:F:316:GLN:N	2.30	0.64
7:G:18:LEU:HB2	7:G:30:LEU:HD13	1.79	0.64
9:N:105:VAL:CG2	9:N:113:ILE:HB	2.27	0.64
9:N:144:ILE:O	9:N:168:HIS:ND1	2.30	0.64
10:O:68:HIS:O	10:O:71:HIS:HB3	1.96	0.64
10:O:242:ARG:O	10:O:245:ASP:HB2	1.98	0.64
10:O:289:GLU:CD	10:O:290:LYS:H	2.01	0.64
10:O:457:MET:O	10:O:461:LEU:HG	1.96	0.64
10:O:513:GLN:HA	10:O:551:ARG:NH1	2.13	0.64
1:A:193:ILE:HB	1:A:196:SER:CB	2.28	0.64
2:B:382:VAL:HA	2:B:385:VAL:HB	1.80	0.64
2:B:428:THR:HG23	6:F:292:LEU:HD21	1.80	0.64
2:B:442:LEU:CD2	6:F:309:PHE:HE2	2.04	0.64
3:C:45:VAL:HG13	3:C:48:ALA:CB	2.28	0.64
4:D:226:LEU:HD22	4:D:254:ARG:CZ	2.28	0.64
5:E:322:VAL:HG22	6:F:279:PHE:CE1	2.32	0.64
6:F:271:SER:O	6:F:276:LYS:HE3	1.98	0.64
7:G:69:LEU:HD22	7:G:85:LEU:CD1	2.28	0.64
9:N:143:LEU:HD23	9:N:168:HIS:O	1.98	0.64
10:O:35:TRP:CZ2	12:Q:36:PRO:HD2	2.32	0.64
10:O:211:PHE:CZ	10:O:250:CYS:SG	2.90	0.64
10:O:727:ASP:O	13:R:45:CYS:CB	2.40	0.64
2:B:77:LYS:HG3	2:B:80:PHE:CE2	2.33	0.64
2:B:105:ARG:CZ	10:O:401:LYS:NZ	2.61	0.64
2:B:149:PHE:CZ	2:B:196:GLU:HB3	2.33	0.64
2:B:165:TYR:CD1	2:B:168:LEU:HD23	2.33	0.64
2:B:427:TRP:O	2:B:430:GLN:HB2	1.98	0.64
3:C:371:ALA:HA	3:C:374:HIS:HD2	1.63	0.64
5:E:150:ILE:CD1	5:E:210:LYS:HE3	2.28	0.64
7:G:25:SER:O	7:G:28:THR:OG1	2.14	0.64
7:G:72:TYR:CE2	7:G:164:LYS:HB2	2.33	0.64
7:G:112:PRO:HD2	7:G:115:VAL:HG21	1.80	0.64
8:H:164:PRO:O	8:H:166:LYS:NZ	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:573:TYR:CB	10:O:650:LYS:HE2	2.27	0.64
10:O:660:ASP:C	10:O:663:GLN:N	2.51	0.64
11:P:5:LEU:HA	11:P:73:ALA:O	1.98	0.64
1:A:262:GLU:CG	1:A:285:LEU:HD13	2.28	0.64
1:A:342:LEU:HA	1:A:345:ASN:HD22	1.63	0.64
3:C:276:ARG:HD2	3:C:280:ASN:HD21	1.61	0.64
6:F:243:LYS:H	6:F:243:LYS:HD3	1.61	0.64
7:G:133:ILE:HA	7:G:136:VAL:HG22	1.80	0.64
8:H:205:ALA:O	8:H:209:ASN:HA	1.98	0.64
10:O:259:TYR:O	10:O:262:VAL:HB	1.97	0.64
10:O:644:PHE:CD1	10:O:650:LYS:HG3	2.32	0.64
11:P:93:PHE:CG	12:Q:51:SER:HB2	2.32	0.64
12:Q:62:ASN:HB2	15:Q:110:HOH:O	1.98	0.64
13:R:35:TRP:CZ3	13:R:66:GLU:HB3	2.33	0.64
2:B:73:LYS:HA	2:B:76:ILE:CG1	2.27	0.63
3:C:202:LEU:HD13	3:C:230:VAL:CB	2.28	0.63
4:D:34:ILE:O	4:D:41:GLN:NE2	2.31	0.63
4:D:325:GLY:O	4:D:329:GLU:N	2.30	0.63
5:E:68:HIS:HA	5:E:71:SER:OG	1.98	0.63
6:F:142:VAL:HG12	6:F:149:PRO:CB	2.27	0.63
6:F:232:HIS:HE1	7:G:182:GLU:CD	2.02	0.63
6:F:310:ASN:HB2	6:F:316:GLN:OE1	1.98	0.63
8:H:42:ALA:HA	8:H:45:LEU:HD12	1.79	0.63
8:H:48:ASN:O	8:H:50:MET:HG2	1.97	0.63
8:H:154:GLN:HB3	8:H:163:LEU:HG	1.79	0.63
10:O:107:TYR:CA	12:Q:98:SER:OG	2.46	0.63
10:O:498:ASP:HB2	10:O:535:LYS:HE3	1.81	0.63
11:P:43:ARG:HG3	11:P:80:ARG:CG	2.28	0.63
1:A:99:ARG:NH2	1:A:391:ASP:HA	2.10	0.63
1:A:398:VAL:HA	1:A:401:LEU:CD2	2.28	0.63
1:A:473:GLU:O	1:A:476:LEU:HG	1.98	0.63
2:B:70:LYS:HG3	2:B:107:TYR:OH	1.98	0.63
3:C:336:LYS:O	3:C:339:LEU:HG	1.98	0.63
4:D:377:LEU:CD1	6:F:263:LEU:HD12	2.24	0.63
5:E:136:TRP:CZ2	5:E:167:ALA:HA	2.33	0.63
7:G:142:GLN:HB2	7:G:156:PHE:HB3	1.79	0.63
10:O:286:ILE:HD13	10:O:315:LEU:H	1.63	0.63
10:O:361:ASP:O	10:O:364:PHE:N	2.29	0.63
10:O:551:ARG:NE	13:R:33:TRP:H	1.50	0.63
12:Q:5:PHE:C	12:Q:41:LYS:HZ2	1.92	0.63
13:R:67:GLU:HA	13:R:70:VAL:CG2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:GLN:HG2	1:A:313:HIS:CA	2.29	0.63
1:A:381:LEU:HG	1:A:402:TYR:CE1	2.33	0.63
1:A:388:LEU:HD11	1:A:398:VAL:HB	1.81	0.63
2:B:159:TYR:CE2	2:B:164:GLU:HB3	2.33	0.63
2:B:167:LYS:HE3	2:B:168:LEU:HB2	1.80	0.63
3:C:31:SER:HB3	3:C:69:PRO:O	1.98	0.63
5:E:318:LEU:HB3	6:F:286:VAL:HG11	1.79	0.63
5:E:322:VAL:HA	6:F:279:PHE:CE1	2.33	0.63
6:F:115:VAL:CG1	9:N:132:GLU:HB2	2.23	0.63
7:G:38:PRO:HA	7:G:41:TYR:CE1	2.33	0.63
10:O:486:LEU:HB2	10:O:507:PHE:CE2	2.33	0.63
10:O:543:PHE:O	10:O:546:GLN:HB2	1.99	0.63
10:O:689:LYS:HA	10:O:743:TYR:CZ	2.32	0.63
10:O:695:ARG:HD3	10:O:740:GLU:HG3	1.81	0.63
11:P:3:VAL:HG12	11:P:64:SER:N	2.14	0.63
2:B:76:ILE:HG22	2:B:80:PHE:HE1	1.63	0.63
3:C:111:LEU:HD13	3:C:117:PRO:CD	2.25	0.63
3:C:112:VAL:HA	3:C:115:LYS:O	1.98	0.63
3:C:354:LYS:N	8:H:127:SER:OG	2.26	0.63
5:E:67:MET:SD	6:F:42:ALA:HB1	2.39	0.63
5:E:187:ARG:CD	5:E:224:LEU:HD11	2.29	0.63
7:G:69:LEU:HD22	7:G:85:LEU:HD11	1.80	0.63
10:O:82:GLN:O	10:O:86:MET:HG2	1.99	0.63
10:O:189:VAL:O	10:O:192:GLU:HG2	1.97	0.63
10:O:226:LEU:HD11	10:O:242:ARG:HE	1.63	0.63
10:O:286:ILE:CG2	10:O:315:LEU:CA	2.41	0.63
10:O:389:GLU:O	10:O:393:LYS:N	2.24	0.63
10:O:523:PRO:HD2	10:O:558:TYR:CE2	2.33	0.63
10:O:688:MET:HG2	10:O:731:ILE:HB	1.81	0.63
2:B:194:LEU:HB3	2:B:224:ILE:HG21	1.80	0.63
2:B:431:LEU:HD23	2:B:434:LEU:HD23	1.81	0.63
3:C:93:ILE:HG13	3:C:130:LYS:HG3	1.81	0.63
3:C:216:VAL:HG21	3:C:252:PHE:CD2	2.32	0.63
5:E:59:ALA:O	5:E:63:LEU:HG	1.99	0.63
6:F:117:LYS:HZ3	9:N:137:PRO:HD3	1.60	0.63
7:G:66:LEU:HG	7:G:70:PHE:CE2	2.33	0.63
7:G:67:LEU:HG	7:G:164:LYS:NZ	2.13	0.63
10:O:16:LYS:HD2	10:O:41:ASP:HB3	1.65	0.63
10:O:494:ILE:HG12	10:O:539:MET:HG3	1.81	0.63
10:O:503:LEU:CD2	13:R:25:LYS:C	2.67	0.63
10:O:585:LEU:CD1	13:R:22:PHE:CD2	2.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:688:MET:HG2	10:O:731:ILE:HD12	1.81	0.63
12:Q:6:VAL:CB	12:Q:41:LYS:HZ1	2.11	0.63
2:B:128:LEU:HA	2:B:131:PHE:HD2	1.63	0.63
3:C:51:VAL:HB	3:C:93:ILE:HD11	1.80	0.63
5:E:203:TYR:HH	5:E:296:SER:N	1.97	0.63
5:E:259:ALA:O	5:E:263:THR:HG23	1.99	0.63
7:G:7:PRO:HB3	7:G:38:PRO:HD2	1.81	0.63
8:H:46:LEU:HD23	8:H:109:LEU:HB2	1.81	0.63
8:H:113:THR:HA	8:H:116:ARG:CD	2.26	0.63
9:N:170:VAL:HG23	10:O:690:ALA:N	2.12	0.63
10:O:100:TYR:CD2	12:Q:34:GLU:OE1	2.37	0.63
10:O:381:PRO:HB2	10:O:382:LYS:C	2.17	0.63
10:O:550:GLY:HA3	13:R:36:ASP:N	2.13	0.63
10:O:584:VAL:CG1	10:O:610:LEU:HD13	2.28	0.63
10:O:660:ASP:CA	10:O:663:GLN:CB	2.74	0.63
10:O:692:LYS:CG	10:O:743:TYR:HB3	2.28	0.63
1:A:177:LYS:HA	1:A:180:LYS:CD	2.28	0.63
1:A:188:TYR:HA	1:A:191:ASN:ND2	2.13	0.63
1:A:355:PHE:HA	1:A:358:LEU:CD1	2.28	0.63
2:B:294:PHE:O	2:B:300:LYS:HD3	1.98	0.63
3:C:202:LEU:HD13	3:C:230:VAL:CG1	2.28	0.63
5:E:31:TYR:CZ	5:E:131:GLU:HG3	2.34	0.63
7:G:41:TYR:HB2	7:G:161:ASP:CG	2.19	0.63
7:G:146:ASP:HB2	7:G:153:GLU:HG3	1.81	0.63
8:H:51:ASN:O	8:H:54:ARG:HG2	1.98	0.63
10:O:412:GLU:HA	10:O:415:LEU:HB2	1.81	0.63
10:O:562:GLY:HA3	10:O:577:VAL:HG22	1.81	0.63
10:O:578:THR:N	10:O:581:GLN:OE1	2.24	0.63
10:O:644:PHE:CZ	10:O:646:SER:HB2	2.34	0.63
10:O:685:VAL:CG2	10:O:725:LEU:CD2	2.76	0.63
10:O:722:ILE:HG21	10:O:741:TYR:CD2	2.34	0.63
11:P:76:GLY:HA2	11:P:88:LEU:CD2	2.29	0.63
13:R:94:CYS:SG	13:R:96:LEU:HD13	2.38	0.63
1:A:104:ALA:HB1	1:A:111:ARG:CG	2.24	0.63
1:A:122:VAL:O	1:A:126:PHE:HA	1.99	0.63
1:A:184:ASP:HB3	1:A:188:TYR:CE2	2.34	0.63
1:A:382:ASP:HA	1:A:385:LYS:HB2	1.80	0.63
2:B:392:CYS:HA	2:B:395:ASP:OD2	1.99	0.63
3:C:199:GLU:CG	3:C:234:LEU:HD21	2.29	0.63
3:C:263:LEU:HA	3:C:266:VAL:CG2	2.29	0.63
3:C:311:THR:HA	3:C:360:PHE:CZ	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:318:SER:HB3	3:C:321:ASP:HB2	1.81	0.63
4:D:384:LEU:HB2	6:F:259:GLU:OE2	1.98	0.63
4:D:403:GLN:CG	6:F:233:SER:OG	2.47	0.63
7:G:36:GLU:HA	7:G:95:LYS:HZ2	1.63	0.63
7:G:166:ASP:O	7:G:170:ILE:N	2.25	0.63
10:O:260:THR:C	10:O:262:VAL:N	2.52	0.63
10:O:302:ARG:O	10:O:305:SER:OG	2.11	0.63
10:O:373:THR:O	10:O:376:VAL:HB	1.98	0.63
10:O:442:ARG:CG	10:O:447:LEU:HB2	2.23	0.63
1:A:91:TYR:HA	1:A:317:PRO:O	1.99	0.63
1:A:293:GLU:HB2	1:A:302:ALA:HB2	1.81	0.63
1:A:422:MET:O	1:A:426:ALA:N	2.17	0.63
2:B:73:LYS:O	2:B:76:ILE:HB	1.99	0.63
2:B:201:GLU:OE1	2:B:217:LEU:HD13	1.99	0.63
2:B:243:LYS:O	2:B:246:LEU:HB3	1.99	0.63
3:C:35:LEU:HD13	3:C:39:LEU:HD21	1.81	0.63
3:C:154:CYS:SG	3:C:156:LYS:NZ	2.59	0.63
4:D:317:ASN:HB3	4:D:361:PHE:CE1	2.29	0.63
5:E:33:LYS:HE3	5:E:37:GLN:HE22	1.63	0.63
5:E:322:VAL:HG13	6:F:279:PHE:CE2	2.32	0.63
7:G:98:HIS:HA	7:G:101:ILE:CG2	2.26	0.63
8:H:107:GLU:HA	8:H:110:ARG:CZ	2.29	0.63
8:H:196:GLN:HA	8:H:199:ARG:HD2	1.79	0.63
10:O:226:LEU:HD11	10:O:242:ARG:CZ	2.28	0.63
10:O:240:LEU:HD11	10:O:244:LYS:HE3	1.79	0.63
10:O:339:PHE:CD2	10:O:387:ALA:CB	2.71	0.63
10:O:393:LYS:O	10:O:396:ASP:HB2	1.99	0.63
10:O:457:MET:HA	10:O:460:LYS:CD	2.28	0.63
11:P:65:GLN:HE22	12:Q:76:GLU:HB3	1.64	0.63
1:A:286:LYS:CE	1:A:306:LEU:HA	2.29	0.62
2:B:73:LYS:HZ2	2:B:111:SER:HA	1.63	0.62
3:C:39:LEU:HA	3:C:42:LEU:HG	1.81	0.62
3:C:233:ILE:CG2	3:C:301:SER:HB3	2.27	0.62
3:C:276:ARG:HD2	3:C:280:ASN:ND2	2.14	0.62
3:C:348:PHE:CD1	3:C:361:HIS:HB2	2.34	0.62
4:D:86:HIS:NE2	4:D:114:TYR:OH	2.31	0.62
5:E:189:TYR:OH	5:E:222:TYR:HB3	1.99	0.62
6:F:201:ASP:OD1	6:F:219:GLU:O	2.17	0.62
8:H:142:GLU:HA	8:H:145:VAL:CG2	2.29	0.62
10:O:210:PRO:HA	10:O:213:THR:CB	2.29	0.62
10:O:528:ALA:HB2	10:O:586:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:718:ILE:HG23	10:O:719:LYS:N	2.14	0.62
1:A:135:HIS:HA	1:A:138:LEU:HB3	1.79	0.62
1:A:331:LEU:HD21	1:A:366:ILE:HD11	1.80	0.62
1:A:452:ARG:O	1:A:460:LEU:HD12	1.99	0.62
3:C:221:LEU:HA	3:C:224:TYR:CD1	2.34	0.62
3:C:266:VAL:HA	3:C:269:THR:CG2	2.29	0.62
3:C:340:HIS:O	3:C:344:ASP:N	2.31	0.62
3:C:380:MET:HG2	3:C:384:ILE:HD11	1.81	0.62
4:D:317:ASN:HA	7:G:144:LYS:HZ2	1.64	0.62
5:E:120:TYR:CA	6:F:111:GLN:HB3	2.29	0.62
7:G:75:TYR:HB2	7:G:96:LEU:C	2.19	0.62
8:H:61:PRO:HD2	8:H:64:ILE:HD12	1.81	0.62
10:O:83:VAL:HG11	10:O:158:ILE:HD13	1.81	0.62
10:O:107:TYR:CB	12:Q:96:TYR:HA	2.29	0.62
10:O:155:LEU:HD12	10:O:159:LEU:HD22	1.79	0.62
10:O:219:TYR:CE2	10:O:246:GLU:CB	2.82	0.62
10:O:551:ARG:HD3	13:R:34:ALA:CB	2.29	0.62
11:P:95:SER:HA	12:Q:52:HIS:CE1	2.34	0.62
12:Q:6:VAL:CG2	12:Q:29:LEU:HD11	2.29	0.62
13:R:63:ALA:HB1	13:R:68:CYS:HA	1.80	0.62
1:A:260:LYS:HG3	1:A:264:THR:HB	1.81	0.62
1:A:485:ARG:NH1	2:B:435:ASN:ND2	2.47	0.62
1:A:492:ARG:HA	1:A:495:VAL:HG12	1.80	0.62
2:B:224:ILE:HG21	2:B:228:ILE:HD12	1.80	0.62
2:B:367:THR:CA	2:B:411:LEU:HB2	2.27	0.62
3:C:93:ILE:HB	3:C:131:MET:CA	2.28	0.62
4:D:380:GLN:HE22	7:G:156:PHE:HD1	1.47	0.62
5:E:29:TYR:CZ	5:E:230:LYS:HA	2.34	0.62
5:E:316:HIS:ND1	8:H:207:LEU:HD13	2.14	0.62
6:F:32:ALA:HB1	6:F:182:LEU:HA	1.80	0.62
6:F:168:PHE:HE1	6:F:185:GLU:HB2	1.64	0.62
6:F:222:ILE:HD12	6:F:225:HIS:HB3	1.80	0.62
7:G:136:VAL:HG12	7:G:141:ILE:CB	2.29	0.62
9:N:169:LEU:C	10:O:691:ARG:CA	2.66	0.62
10:O:192:GLU:HB3	10:O:198:PHE:O	2.00	0.62
10:O:541:GLU:OE2	10:O:553:LEU:N	2.27	0.62
10:O:567:ASN:CG	13:R:22:PHE:CA	2.68	0.62
1:A:293:GLU:OE2	1:A:301:GLN:HB3	1.99	0.62
2:B:153:THR:O	2:B:157:LYS:HG2	2.00	0.62
2:B:205:TYR:CE1	2:B:213:LYS:HE3	2.34	0.62
2:B:259:PHE:CE1	2:B:296:SER:HB2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:324:LEU:CD2	4:D:327:LEU:HD13	2.29	0.62
5:E:63:LEU:HD21	6:F:46:LEU:N	2.15	0.62
5:E:315:ILE:CB	8:H:207:LEU:HD21	2.28	0.62
6:F:66:VAL:O	6:F:127:THR:OG1	2.16	0.62
6:F:146:ILE:HD11	6:F:149:PRO:HB3	1.81	0.62
6:F:308:LYS:HA	6:F:311:VAL:HB	1.82	0.62
8:H:12:SER:O	8:H:16:LEU:HG	1.98	0.62
8:H:13:PHE:HA	8:H:16:LEU:HD12	1.81	0.62
8:H:196:GLN:O	8:H:199:ARG:HB2	1.99	0.62
10:O:7:VAL:CA	10:O:52:PRO:CB	2.61	0.62
10:O:225:ASN:O	10:O:228:GLN:HB2	1.99	0.62
10:O:728:LYS:HD3	10:O:730:TYR:CE2	2.34	0.62
11:P:41:GLU:CA	11:P:80:ARG:HB2	2.28	0.62
1:A:443:LEU:HA	1:A:446:GLU:OE2	1.99	0.62
3:C:265:GLN:O	3:C:269:THR:HG23	2.00	0.62
5:E:107:VAL:CG1	9:N:120:THR:O	2.46	0.62
5:E:108:ASN:HA	5:E:154:THR:CG2	2.29	0.62
5:E:174:ARG:O	5:E:178:ALA:CB	2.48	0.62
5:E:318:LEU:HD13	6:F:282:GLN:HG3	1.78	0.62
6:F:57:ARG:NH2	6:F:89:LEU:O	2.32	0.62
8:H:46:LEU:HA	8:H:109:LEU:HD22	1.81	0.62
8:H:125:TYR:CD2	8:H:164:PRO:HD2	2.35	0.62
10:O:107:TYR:HD1	12:Q:98:SER:HB3	1.64	0.62
1:A:175:LEU:O	1:A:178:LEU:HB2	2.00	0.62
1:A:334:LEU:HD12	1:A:337:PHE:CE1	2.34	0.62
1:A:439:GLU:O	1:A:443:LEU:HG	1.98	0.62
2:B:143:LYS:CE	10:O:408:GLU:N	2.63	0.62
2:B:273:ARG:HG3	2:B:277:LEU:HD23	1.82	0.62
2:B:393:ILE:HG22	2:B:398:ILE:HB	1.82	0.62
3:C:17:ALA:HB2	3:C:52:GLN:CG	2.27	0.62
3:C:31:SER:N	3:C:103:LEU:HD22	2.14	0.62
3:C:239:GLN:HG3	3:C:241:LEU:HD22	1.81	0.62
4:D:395:TRP:HB2	6:F:241:TYR:CE1	2.33	0.62
5:E:107:VAL:HG11	9:N:120:THR:HG23	1.77	0.62
5:E:244:LYS:CA	6:F:227:ALA:HA	2.29	0.62
10:O:339:PHE:CE2	10:O:386:LYS:C	2.65	0.62
10:O:577:VAL:HB	10:O:581:GLN:HB3	1.81	0.62
10:O:676:ARG:HH21	10:O:710:ARG:CD	2.12	0.62
11:P:4:PHE:CE1	12:Q:66:LYS:CE	2.79	0.62
12:Q:7:THR:HG23	12:Q:43:ARG:NE	2.15	0.62
13:R:64:THR:HG22	13:R:65:SER:H	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:143:LYS:HE3	10:O:408:GLU:CB	2.29	0.62
3:C:55:SER:OG	3:C:56:LEU:HD12	2.00	0.62
3:C:156:LYS:HA	3:C:159:LEU:CD1	2.30	0.62
3:C:263:LEU:HD12	3:C:266:VAL:CB	2.29	0.62
5:E:244:LYS:HD2	6:F:230:MET:CB	2.29	0.62
6:F:240:GLU:CA	6:F:243:LYS:HZ3	2.08	0.62
7:G:140:ILE:HG13	7:G:158:ILE:HG12	1.80	0.62
7:G:196:ASN:O	7:G:200:GLU:HG3	1.98	0.62
8:H:93:ILE:HA	8:H:106:MET:HE2	1.81	0.62
10:O:47:VAL:C	10:O:49:TYR:CD1	2.72	0.62
10:O:48:ALA:N	10:O:50:PRO:HD3	2.14	0.62
10:O:160:ILE:O	10:O:164:LEU:HG	2.00	0.62
10:O:225:ASN:O	10:O:229:GLU:HG2	1.98	0.62
10:O:285:ILE:CD1	10:O:294:MET:N	2.61	0.62
10:O:554:THR:HG22	10:O:555:TRP:H	1.65	0.62
10:O:571:LYS:HG3	10:O:642:MET:CE	2.29	0.62
10:O:573:TYR:HA	10:O:649:THR:HG22	1.81	0.62
10:O:576:MET:O	10:O:654:THR:HG22	2.00	0.62
11:P:54:GLY:O	15:P:232:HOH:O	2.16	0.62
12:Q:52:HIS:HB3	15:Q:104:HOH:O	1.98	0.62
1:A:413:TYR:O	1:A:416:PRO:HD2	2.00	0.62
1:A:449:ILE:HB	1:A:463:ARG:H	1.65	0.62
2:B:85:PHE:CZ	2:B:123:LYS:HE2	2.32	0.62
2:B:169:GLN:O	2:B:173:ARG:NE	2.33	0.62
2:B:299:ALA:HA	2:B:302:TYR:HB2	1.80	0.62
2:B:317:ALA:HB3	2:B:325:GLU:OE2	1.99	0.62
3:C:38:ASN:HB3	3:C:41:HIS:HB2	1.81	0.62
3:C:82:GLN:O	3:C:85:ILE:HB	2.00	0.62
3:C:110:ALA:O	3:C:114:ARG:N	2.33	0.62
3:C:247:GLN:O	3:C:251:ARG:HD3	1.99	0.62
3:C:352:ASN:HB2	8:H:126:THR:HB	1.80	0.62
4:D:138:GLN:NE2	4:D:139:TYR:O	2.32	0.62
4:D:403:GLN:HA	4:D:406:GLN:CG	2.29	0.62
5:E:116:TYR:CD2	5:E:117:MET:HG3	2.35	0.62
6:F:277:THR:HA	6:F:280:TYR:CD2	2.34	0.62
7:G:102:VAL:HG11	7:G:140:ILE:HD13	1.81	0.62
7:G:112:PRO:HA	7:G:151:LEU:HD23	1.80	0.62
8:H:61:PRO:CG	8:H:64:ILE:HD12	2.30	0.62
10:O:10:PHE:CB	10:O:56:ARG:HG2	2.21	0.62
10:O:21:ILE:CD1	10:O:101:MET:CE	2.78	0.62
10:O:115:LYS:HB3	10:O:136:LEU:CD1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:SER:HA	1:A:96:ARG:NE	2.15	0.62
1:A:242:ILE:CD1	1:A:254:VAL:HG13	2.30	0.62
1:A:283:THR:HG21	1:A:313:HIS:ND1	2.14	0.62
5:E:80:LEU:HD21	5:E:133:ALA:HB2	1.82	0.62
7:G:70:PHE:HD1	7:G:99:LEU:HD21	1.64	0.62
8:H:24:GLU:CB	8:H:40:LEU:HD11	2.29	0.62
8:H:88:GLY:O	8:H:92:THR:HG23	2.00	0.62
9:N:105:VAL:HG22	9:N:113:ILE:HB	1.82	0.62
10:O:72:LEU:HD22	10:O:90:TYR:HA	1.80	0.62
10:O:185:ILE:O	10:O:255:HIS:CE1	2.53	0.62
10:O:503:LEU:CG	13:R:26:LYS:N	2.55	0.62
10:O:527:PHE:HB3	10:O:529:ILE:HD11	1.82	0.62
10:O:644:PHE:CD1	10:O:650:LYS:HA	2.35	0.62
12:Q:28:THR:O	12:Q:32:MET:CB	2.46	0.62
13:R:50:MET:HA	13:R:65:SER:O	2.00	0.62
1:A:398:VAL:HA	1:A:401:LEU:HD21	1.81	0.62
2:B:295:ASP:HA	2:B:300:LYS:HD2	1.82	0.62
4:D:365:GLU:O	6:F:270:LEU:HD12	1.99	0.62
4:D:370:TRP:CZ2	6:F:275:PHE:CD2	2.85	0.62
5:E:43:LYS:HE3	5:E:46:THR:HG21	1.82	0.62
5:E:82:LEU:HB2	5:E:94:ASP:CB	2.30	0.62
5:E:119:ALA:CB	6:F:111:GLN:HG2	2.29	0.62
5:E:136:TRP:CH2	5:E:147:LEU:HG	2.35	0.62
10:O:57:LEU:HD23	10:O:112:PHE:HB3	1.82	0.62
10:O:385:CYS:CB	10:O:427:ASP:HB2	2.29	0.62
10:O:504:GLY:C	13:R:26:LYS:NZ	2.52	0.62
10:O:692:LYS:CE	10:O:743:TYR:HD2	1.97	0.62
1:A:97:ILE:HD11	1:A:121:PHE:HB3	1.82	0.61
1:A:485:ARG:NH1	2:B:435:ASN:HD21	1.98	0.61
2:B:314:LEU:HD22	2:B:326:PHE:CA	2.27	0.61
2:B:323:ILE:HG12	2:B:354:ILE:HD13	1.82	0.61
3:C:47:GLY:HA3	3:C:84:PHE:HB2	1.81	0.61
3:C:85:ILE:HG13	3:C:124:LEU:HA	1.81	0.61
3:C:103:LEU:C	3:C:106:GLN:HB3	2.19	0.61
3:C:156:LYS:HA	3:C:159:LEU:HD12	1.82	0.61
3:C:158:ALA:HA	3:C:161:TYR:CD2	2.27	0.61
4:D:231:HIS:CE1	4:D:285:LEU:HD23	2.35	0.61
5:E:102:GLY:O	5:E:106:ARG:HG3	2.00	0.61
5:E:129:ARG:HG3	6:F:57:ARG:NH1	2.15	0.61
5:E:142:GLY:H	5:E:172:PRO:HG2	1.65	0.61
6:F:39:VAL:HG13	6:F:122:LEU:HD22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:46:LEU:HD12	6:F:49:LEU:HD12	1.82	0.61
6:F:108:LYS:HG3	6:F:112:PHE:HE1	1.63	0.61
7:G:119:ASP:OD1	7:G:120:LEU:N	2.32	0.61
7:G:142:GLN:HB3	7:G:156:PHE:N	2.15	0.61
8:H:44:TYR:O	8:H:49:ASP:HB3	1.99	0.61
8:H:75:TRP:O	8:H:79:GLN:HG3	2.00	0.61
10:O:83:VAL:HA	10:O:86:MET:HB2	1.82	0.61
10:O:381:PRO:HG2	10:O:384:VAL:HA	1.82	0.61
10:O:552:LYS:H	13:R:32:LEU:HD11	1.62	0.61
10:O:644:PHE:CE1	10:O:650:LYS:HA	2.35	0.61
13:R:77:HIS:HB2	13:R:79:PHE:CE2	2.35	0.61
1:A:402:TYR:HA	1:A:405:ILE:HD12	1.82	0.61
2:B:239:GLU:OE2	2:B:272:ARG:NH1	2.33	0.61
3:C:50:ASP:N	3:C:88:CYS:SG	2.73	0.61
4:D:385:LEU:HD13	6:F:238:ILE:HG13	1.83	0.61
6:F:101:ASP:HB3	6:F:104:TYR:HB3	1.81	0.61
7:G:18:LEU:CB	7:G:30:LEU:HD13	2.30	0.61
7:G:57:GLU:HA	7:G:61:ALA:HB2	1.82	0.61
10:O:350:PHE:HB3	10:O:354:ILE:HD12	1.82	0.61
10:O:354:ILE:HA	10:O:358:LEU:CG	2.30	0.61
10:O:398:LEU:CD2	10:O:404:LYS:HE2	2.29	0.61
10:O:522:ALA:HB1	10:O:558:TYR:CG	2.35	0.61
10:O:537:VAL:HG23	10:O:553:LEU:CB	2.30	0.61
10:O:610:LEU:HD21	10:O:638:PHE:CZ	2.35	0.61
13:R:35:TRP:HZ3	13:R:66:GLU:HB3	1.65	0.61
1:A:173:LYS:HB3	1:A:177:LYS:HZ3	1.66	0.61
1:A:331:LEU:CD2	1:A:366:ILE:HD11	2.30	0.61
2:B:32:LEU:HD23	10:O:648:ARG:CZ	2.29	0.61
2:B:38:ASN:O	2:B:42:LEU:HB2	2.00	0.61
2:B:143:LYS:CE	10:O:408:GLU:CA	2.77	0.61
2:B:193:GLN:OE1	2:B:228:ILE:HA	2.01	0.61
2:B:393:ILE:HG22	2:B:398:ILE:CB	2.30	0.61
2:B:424:LEU:HD11	5:E:263:THR:CG2	2.30	0.61
3:C:110:ALA:CA	3:C:113:GLU:HB3	2.29	0.61
3:C:156:LYS:CD	3:C:157:PRO:HD3	2.30	0.61
3:C:171:LYS:HG3	3:C:172:GLU:H	1.64	0.61
3:C:185:TYR:HB2	3:C:204:PHE:HB3	1.82	0.61
4:D:260:ALA:CB	4:D:263:ILE:HD12	2.31	0.61
5:E:28:ILE:CG2	5:E:229:PHE:HB2	2.29	0.61
5:E:57:ILE:HD11	5:E:92:ILE:HD12	1.82	0.61
5:E:320:SER:CA	5:E:323:ILE:HD12	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:46:LEU:HA	6:F:49:LEU:CG	2.30	0.61
6:F:168:PHE:HA	6:F:184:ALA:O	1.99	0.61
7:G:92:GLN:HG2	7:G:95:LYS:NZ	2.16	0.61
7:G:185:LEU:O	7:G:189:GLU:HG3	2.01	0.61
9:N:102:LEU:HD13	9:N:116:ASP:OD1	2.00	0.61
9:N:102:LEU:O	9:N:163:GLY:HA2	2.00	0.61
9:N:104:LYS:HE2	9:N:164:GLY:CA	2.31	0.61
10:O:73:HIS:ND1	10:O:150:LEU:HG	2.15	0.61
10:O:472:LYS:HA	10:O:475:ARG:HH11	1.65	0.61
10:O:535:LYS:HG3	10:O:538:GLN:HE21	1.66	0.61
12:Q:28:THR:O	12:Q:32:MET:N	2.33	0.61
1:A:293:GLU:HA	1:A:296:ALA:HB3	1.82	0.61
2:B:132:TYR:CE1	2:B:154:LYS:HB2	2.36	0.61
2:B:368:ARG:HB2	2:B:410:GLU:HA	1.81	0.61
3:C:73:ASP:HB3	3:C:77:LEU:H	1.66	0.61
5:E:32:ASP:OD1	5:E:34:LYS:HB3	1.99	0.61
5:E:63:LEU:HD22	6:F:44:HIS:HD2	1.65	0.61
7:G:1:MET:CB	7:G:12:LEU:HD21	2.30	0.61
7:G:117:LEU:O	7:G:122:MET:N	2.34	0.61
8:H:199:ARG:HB3	8:H:203:TYR:CZ	2.35	0.61
10:O:44:ALA:O	10:O:53:LEU:HD23	1.92	0.61
10:O:236:MET:HE1	10:O:300:LEU:CD1	2.30	0.61
10:O:306:THR:C	10:O:309:PRO:HD2	2.21	0.61
11:P:26:GLU:HA	15:P:301:HOH:O	2.00	0.61
12:Q:41:LYS:HD3	12:Q:42:GLY:N	1.92	0.61
12:Q:86:MET:HG2	12:Q:87:SER:HA	1.67	0.61
1:A:490:MET:HB3	3:C:167:MET:HE1	1.83	0.61
3:C:263:LEU:HD13	3:C:278:LEU:HD23	1.82	0.61
5:E:51:TYR:CZ	5:E:88:GLU:HG2	2.34	0.61
5:E:121:ILE:HG21	5:E:132:ASN:HA	1.81	0.61
6:F:81:ILE:O	6:F:188:TYR:HA	2.01	0.61
6:F:100:ILE:N	6:F:141:GLN:OE1	2.29	0.61
7:G:69:LEU:HA	7:G:73:GLY:H	1.66	0.61
7:G:98:HIS:CD2	7:G:135:ALA:HB2	2.35	0.61
10:O:594:VAL:O	10:O:637:SER:HA	2.01	0.61
10:O:696:HIS:HA	10:O:722:ILE:HD11	1.82	0.61
11:P:4:PHE:O	11:P:67:ALA:HB1	2.01	0.61
2:B:56:LYS:HG3	2:B:59:GLU:OE1	2.00	0.61
2:B:125:MET:CG	2:B:129:GLN:HB2	2.31	0.61
4:D:359:VAL:O	4:D:360:HIS:HA	1.99	0.61
5:E:68:HIS:CG	5:E:97:ALA:HB3	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:123:ASN:HD22	6:F:107:THR:HG21	1.65	0.61
5:E:254:SER:HA	5:E:257:THR:OG1	1.99	0.61
7:G:69:LEU:HD11	7:G:77:ASP:HB2	1.83	0.61
8:H:99:SER:HA	8:H:104:PRO:HD3	1.83	0.61
10:O:428:LYS:O	10:O:432:GLN:HG2	2.01	0.61
10:O:451:MET:O	10:O:455:GLU:HG2	2.01	0.61
10:O:535:LYS:HA	10:O:538:GLN:HG2	1.82	0.61
11:P:5:LEU:CD2	11:P:73:ALA:HB3	2.29	0.61
11:P:7:ILE:HB	11:P:14:ILE:HD12	1.82	0.61
11:P:8:ARG:HA	11:P:12:THR:O	2.00	0.61
13:R:88:LEU:HD22	13:R:101:TRP:H	1.65	0.61
1:A:145:LEU:HG	1:A:149:PRO:CD	2.31	0.61
1:A:306:LEU:HD22	1:A:329:GLY:HA2	1.83	0.61
1:A:378:LEU:HD13	1:A:406:ARG:NH1	2.15	0.61
1:A:453:VAL:HG22	1:A:460:LEU:CA	2.28	0.61
3:C:27:LEU:HB2	3:C:59:LEU:HB2	1.83	0.61
3:C:51:VAL:N	3:C:90:GLY:HA2	2.15	0.61
4:D:324:LEU:O	4:D:324:LEU:HD13	2.00	0.61
4:D:358:ILE:HG23	4:D:360:HIS:CE1	2.35	0.61
5:E:51:TYR:CE2	5:E:88:GLU:HA	2.36	0.61
5:E:115:GLU:HA	5:E:118:ALA:CB	2.30	0.61
6:F:124:TRP:HZ2	6:F:135:ASP:HA	1.65	0.61
10:O:106:ARG:HA	10:O:109:ASN:HD22	1.65	0.61
10:O:157:ALA:HB1	10:O:158:ILE:HD12	1.83	0.61
10:O:301:LEU:CD1	10:O:307:GLY:CA	2.43	0.61
10:O:336:PRO:N	10:O:390:LEU:HD13	2.14	0.61
11:P:7:ILE:HD12	11:P:14:ILE:HG21	1.83	0.61
13:R:73:GLY:H	13:R:76:ASN:HA	1.65	0.61
1:A:352:PHE:HA	1:A:355:PHE:CD2	2.35	0.61
2:B:100:ARG:HH21	2:B:144:ASN:HD21	1.47	0.61
2:B:167:LYS:O	2:B:170:LYS:HG3	2.01	0.61
3:C:69:PRO:O	3:C:103:LEU:HD13	2.00	0.61
3:C:247:GLN:HA	3:C:251:ARG:NH1	2.16	0.61
3:C:262:GLU:O	3:C:266:VAL:HG23	2.01	0.61
3:C:341:MET:HA	3:C:344:ASP:HB2	1.82	0.61
4:D:376:SER:OG	4:D:380:GLN:NE2	2.34	0.61
5:E:115:GLU:HA	5:E:118:ALA:HB3	1.83	0.61
5:E:242:TRP:NE1	6:F:225:HIS:N	2.45	0.61
6:F:118:GLU:O	6:F:119:LEU:HD23	2.01	0.61
7:G:188:ILE:HD13	8:H:197:LEU:HD21	1.83	0.61
8:H:93:ILE:HG22	8:H:103:GLN:HE22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:143:LEU:CB	9:N:150:MSE:HE3	2.27	0.61
10:O:347:HIS:CE1	10:O:420:THR:HG21	2.28	0.61
10:O:385:CYS:HB2	10:O:388:PRO:HB2	1.81	0.61
10:O:390:LEU:HD23	10:O:393:LYS:CD	2.31	0.61
10:O:472:LYS:HD3	10:O:475:ARG:HH11	1.65	0.61
10:O:522:ALA:HB3	10:O:556:LEU:HD11	1.82	0.61
11:P:7:ILE:CG2	11:P:14:ILE:HD12	2.31	0.61
11:P:104:LYS:NZ	15:P:212:HOH:O	2.29	0.61
13:R:75:CYS:HB3	13:R:99:ARG:CZ	2.31	0.61
1:A:94:LEU:O	1:A:98:GLU:HG3	2.01	0.61
2:B:63:GLU:HA	2:B:69:PHE:HE2	1.65	0.61
3:C:226:LYS:HA	3:C:229:LEU:CD1	2.31	0.61
3:C:322:MET:O	3:C:326:VAL:HG23	2.00	0.61
3:C:397:ILE:O	6:F:308:LYS:NZ	2.34	0.61
4:D:195:LEU:HB2	4:D:204:ALA:HB2	1.83	0.61
4:D:390:GLN:NE2	4:D:391:THR:HG23	2.16	0.61
5:E:54:TYR:O	5:E:224:LEU:HD23	2.01	0.61
5:E:65:MET:N	5:E:96:PHE:HA	2.16	0.61
5:E:80:LEU:CD1	5:E:133:ALA:HB1	2.30	0.61
5:E:274:GLU:O	5:E:277:GLU:HB3	2.00	0.61
5:E:312:ILE:HG23	5:E:316:HIS:CE1	2.35	0.61
6:F:203:VAL:HA	6:F:206:MET:HG3	1.81	0.61
7:G:11:LEU:HB2	7:G:15:PHE:CE2	2.35	0.61
7:G:42:VAL:HG21	7:G:163:ARG:H	1.66	0.61
8:H:153:TRP:CE2	8:H:164:PRO:HA	2.35	0.61
10:O:431:PHE:O	10:O:435:TYR:HB3	2.00	0.61
10:O:612:LYS:HE2	10:O:657:MET:N	2.15	0.61
10:O:681:GLN:OE1	10:O:724:VAL:HG11	2.00	0.61
11:P:45:TYR:CE1	11:P:50:LEU:HD23	2.36	0.61
13:R:49:ILE:HG13	13:R:69:THR:H	1.66	0.61
13:R:57:GLN:HA	13:R:60:GLN:CG	2.28	0.61
1:A:341:GLU:O	1:A:345:ASN:N	2.28	0.61
2:B:303:LYS:O	2:B:309:LEU:HB3	2.00	0.61
3:C:26:GLU:HB2	3:C:55:SER:HB2	1.83	0.61
3:C:301:SER:O	3:C:304:LYS:HB2	2.01	0.61
5:E:63:LEU:CG	6:F:46:LEU:HB3	2.31	0.61
6:F:195:ALA:HA	6:F:198:ILE:HD12	1.83	0.61
6:F:260:ALA:HB1	7:G:174:LEU:CG	2.30	0.61
7:G:188:ILE:HG12	8:H:197:LEU:CD2	2.30	0.61
7:G:199:LYS:CD	8:H:208:GLU:HG2	2.30	0.61
7:G:199:LYS:HD2	8:H:208:GLU:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:108:LEU:CD2	10:O:693:VAL:O	2.49	0.61
10:O:17:LEU:HD22	10:O:61:THR:CA	2.30	0.61
10:O:39:PHE:CD1	12:Q:96:TYR:OH	2.46	0.61
10:O:84:LEU:HD21	10:O:162:MET:HB2	1.83	0.61
10:O:168:LYS:NZ	10:O:169:ASN:OD1	2.34	0.61
10:O:240:LEU:CD1	10:O:244:LYS:HE3	2.30	0.61
10:O:318:HIS:O	10:O:322:GLU:HB2	1.99	0.61
10:O:597:LYS:HE2	10:O:634:ALA:HB2	1.83	0.61
11:P:43:ARG:NH1	11:P:84:THR:O	2.33	0.61
1:A:171:ARG:NH1	1:A:172:LYS:HE3	2.16	0.60
1:A:496:LEU:HD13	6:F:309:PHE:CE1	2.35	0.60
3:C:167:MET:HG2	3:C:168:ASP:H	1.66	0.60
3:C:308:GLN:HA	3:C:311:THR:HG23	1.82	0.60
3:C:369:ASN:HB2	3:C:372:MET:H	1.64	0.60
5:E:188:THR:HA	5:E:221:TYR:CA	2.31	0.60
5:E:188:THR:HA	5:E:221:TYR:CB	2.30	0.60
5:E:189:TYR:CE1	5:E:196:PRO:HD2	2.36	0.60
5:E:279:GLN:HE22	5:E:298:ASP:H	1.49	0.60
6:F:69:ILE:HG21	6:F:100:ILE:HD11	1.82	0.60
6:F:121:PHE:CE2	6:F:142:VAL:HG13	2.36	0.60
6:F:205:ARG:HH12	6:F:219:GLU:HG2	1.64	0.60
10:O:101:MET:HB3	10:O:139:ILE:CD1	2.32	0.60
10:O:236:MET:HE1	10:O:300:LEU:CB	2.31	0.60
11:P:44:LEU:HD22	11:P:75:VAL:HG11	1.83	0.60
1:A:100:LEU:HD13	1:A:118:ALA:HB2	1.83	0.60
1:A:260:LYS:HA	1:A:264:THR:OG1	2.01	0.60
2:B:175:LEU:CD1	2:B:197:ILE:HD11	2.31	0.60
2:B:370:HIS:CB	2:B:373:PHE:HB2	2.31	0.60
3:C:170:CYS:SG	3:C:172:GLU:HB2	2.41	0.60
5:E:68:HIS:HB3	5:E:97:ALA:HB3	1.81	0.60
5:E:113:ALA:HA	9:N:128:GLU:C	2.21	0.60
5:E:146:TRP:CZ2	5:E:206:ILE:HD12	2.36	0.60
6:F:31:MET:CE	6:F:136:ILE:HG12	2.30	0.60
7:G:29:ALA:O	7:G:33:GLN:HG2	2.01	0.60
9:N:102:LEU:HD21	9:N:114:GLU:OE2	2.00	0.60
10:O:10:PHE:HD2	10:O:56:ARG:HG2	0.79	0.60
10:O:189:VAL:HG22	10:O:203:TYR:HB2	1.83	0.60
10:O:531:GLN:O	10:O:534:GLU:HB3	2.01	0.60
11:P:43:ARG:NH1	11:P:85:PHE:HA	2.16	0.60
1:A:138:LEU:HD21	1:A:160:PRO:HD2	1.83	0.60
2:B:37:TYR:HB3	2:B:53:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:385:VAL:O	2:B:389:LEU:HG	2.01	0.60
3:C:291:ASN:O	3:C:294:LEU:HG	2.00	0.60
3:C:331:PRO:HG2	3:C:332:GLN:OE1	2.00	0.60
3:C:370:PRO:O	3:C:373:LEU:HB3	2.01	0.60
3:C:377:ASP:O	3:C:380:MET:HB3	2.00	0.60
5:E:105:THR:HG22	5:E:210:LYS:NZ	2.16	0.60
5:E:200:PRO:HD2	5:E:222:TYR:HB2	1.83	0.60
5:E:331:ILE:N	6:F:268:PRO:HB3	2.16	0.60
6:F:54:HIS:HB2	6:F:88:GLU:HG2	1.83	0.60
7:G:66:LEU:CD1	7:G:85:LEU:HD13	2.31	0.60
10:O:10:PHE:HB2	10:O:56:ARG:HB3	1.76	0.60
10:O:275:LEU:HD22	10:O:306:THR:OG1	2.00	0.60
10:O:353:LEU:O	10:O:356:THR:OG1	2.19	0.60
10:O:406:MET:CE	10:O:410:GLU:HG2	2.31	0.60
10:O:499:THR:HB	10:O:532:GLU:OE2	2.01	0.60
1:A:84:LEU:HA	1:A:87:TYR:CD2	2.36	0.60
1:A:300:LYS:O	1:A:304:LYS:HG3	2.02	0.60
1:A:320:LEU:HD11	1:A:324:ASN:ND2	2.16	0.60
2:B:107:TYR:O	2:B:110:LYS:HG3	2.02	0.60
2:B:165:TYR:CZ	2:B:204:MET:HB2	2.36	0.60
2:B:212:LYS:HG2	2:B:215:LYS:CE	2.31	0.60
3:C:225:LYS:HG2	3:C:260:TYR:CE2	2.37	0.60
3:C:339:LEU:HA	3:C:342:ILE:CD1	2.32	0.60
4:D:387:LYS:HA	4:D:390:GLN:HE21	1.66	0.60
4:D:402:ALA:O	4:D:406:GLN:HG2	2.00	0.60
7:G:74:THR:HB	7:G:100:THR:HB	1.83	0.60
7:G:98:HIS:CE1	7:G:131:LEU:HD12	2.33	0.60
7:G:140:ILE:O	7:G:157:CYS:HA	2.01	0.60
7:G:204:GLY:O	7:G:208:GLN:HG3	2.01	0.60
9:N:173:LEU:CD1	10:O:695:ARG:NE	2.56	0.60
10:O:38:ARG:CZ	10:O:101:MET:HE3	2.32	0.60
10:O:660:ASP:HA	10:O:663:GLN:HB2	1.82	0.60
11:P:15:PHE:CB	12:Q:17:GLU:O	2.42	0.60
1:A:123:GLN:HA	1:A:126:PHE:CE1	2.36	0.60
1:A:260:LYS:O	1:A:264:THR:N	2.33	0.60
1:A:419:SER:HB2	1:A:461:TYR:CD1	2.36	0.60
1:A:419:SER:OG	1:A:460:LEU:O	2.08	0.60
2:B:165:TYR:OH	2:B:200:LEU:O	2.14	0.60
3:C:121:ILE:HG21	3:C:157:PRO:HG3	1.84	0.60
3:C:233:ILE:HG22	3:C:304:LYS:HZ1	1.67	0.60
3:C:365:GLU:HB3	3:C:372:MET:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:59:LEU:HD11	4:D:95:ARG:CZ	2.31	0.60
5:E:111:ALA:HB3	9:N:121:ASP:OD1	2.01	0.60
5:E:170:ILE:HD11	5:E:183:LEU:CG	2.31	0.60
6:F:129:GLY:O	6:F:153:LYS:HD3	2.02	0.60
8:H:17:LEU:CD1	8:H:43:LEU:HB3	2.31	0.60
9:N:123:VAL:HG22	9:N:154:LYS:O	2.02	0.60
9:N:123:VAL:HG12	9:N:126:ILE:HD12	1.82	0.60
10:O:8:VAL:HG23	10:O:8:VAL:O	2.00	0.60
10:O:51:GLU:HB2	10:O:52:PRO:HD3	1.82	0.60
10:O:161:ARG:HD3	10:O:164:LEU:CD1	2.29	0.60
10:O:235:TYR:O	10:O:239:VAL:HG23	2.01	0.60
10:O:335:MET:C	10:O:390:LEU:HD13	2.22	0.60
10:O:375:VAL:HA	10:O:378:TYR:CB	2.23	0.60
10:O:563:GLU:HA	10:O:565:LYS:NZ	2.15	0.60
10:O:568:TYR:HB3	13:R:18:LYS:HB3	1.75	0.60
12:Q:6:VAL:N	12:Q:41:LYS:NZ	2.49	0.60
1:A:368:LYS:HE3	1:A:373:LYS:HB2	1.82	0.60
2:B:428:THR:HG23	2:B:431:LEU:HD12	1.83	0.60
3:C:94:ARG:HA	3:C:131:MET:HG3	1.84	0.60
4:D:316:TYR:CD1	7:G:145:LEU:HD23	2.35	0.60
4:D:392:ALA:CB	6:F:241:TYR:CZ	2.84	0.60
6:F:193:GLU:HB3	6:F:196:GLU:CB	2.31	0.60
8:H:27:ALA:HB3	8:H:32:ALA:HB2	1.84	0.60
10:O:83:VAL:HA	10:O:86:MET:CG	2.31	0.60
10:O:210:PRO:O	10:O:213:THR:HB	2.01	0.60
10:O:289:GLU:HG3	10:O:290:LYS:H	1.55	0.60
10:O:439:LEU:CD2	10:O:443:LEU:HD13	2.31	0.60
10:O:549:SER:CA	13:R:33:TRP:CH2	2.84	0.60
10:O:551:ARG:HB3	13:R:32:LEU:HB2	1.76	0.60
10:O:629:LYS:NZ	10:O:633:ASP:OD2	2.30	0.60
10:O:728:LYS:HB3	10:O:730:TYR:CE2	2.36	0.60
12:Q:9:VAL:HG13	12:Q:45:GLU:CD	1.79	0.60
13:R:52:LEU:HD13	13:R:60:GLN:NE2	2.16	0.60
1:A:286:LYS:NZ	1:A:305:CYS:O	2.24	0.60
1:A:421:ASP:HA	1:A:459:ILE:HG23	1.84	0.60
2:B:435:ASN:O	2:B:439:VAL:HG23	2.01	0.60
3:C:367:TYR:HE2	6:F:277:THR:CG2	2.07	0.60
4:D:84:ILE:O	4:D:88:THR:OG1	2.08	0.60
4:D:367:LEU:HD23	4:D:370:TRP:CE3	2.36	0.60
5:E:80:LEU:CD2	5:E:117:MET:HB2	2.29	0.60
5:E:209:ASN:HB2	5:E:210:LYS:NZ	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:98:ILE:CG2	6:F:138:VAL:HG21	2.32	0.60
8:H:133:PHE:HA	8:H:136:PHE:CD2	2.36	0.60
10:O:283:HIS:HA	10:O:286:ILE:HB	1.83	0.60
10:O:390:LEU:HA	10:O:393:LYS:HD2	1.84	0.60
10:O:460:LYS:O	10:O:463:GLN:HB2	2.00	0.60
10:O:544:TYR:CE2	10:O:552:LYS:HA	2.36	0.60
11:P:58:GLY:HA2	15:P:221:HOH:O	2.02	0.60
11:P:93:PHE:HB2	12:Q:52:HIS:N	2.08	0.60
13:R:82:HIS:HA	13:R:85:SER:CB	2.30	0.60
1:A:137:LYS:HA	1:A:140:GLU:OE1	2.01	0.60
1:A:440:LEU:O	1:A:444:ILE:HG13	2.02	0.60
1:A:475:SER:O	1:A:478:MET:HB3	2.01	0.60
2:B:294:PHE:O	2:B:299:ALA:HB3	2.02	0.60
3:C:59:LEU:HD22	3:C:63:PHE:CE1	2.37	0.60
3:C:326:VAL:HB	3:C:328:LEU:CG	2.31	0.60
4:D:309:LEU:HD22	4:D:312:ALA:HB3	1.84	0.60
4:D:369:THR:O	4:D:372:LYS:HB2	2.02	0.60
5:E:234:ASP:HA	6:F:49:LEU:HD22	1.84	0.60
6:F:62:GLU:HB3	6:F:64:ARG:NH1	2.16	0.60
6:F:90:LEU:HD23	6:F:101:ASP:CB	2.32	0.60
7:G:97:LYS:HB3	7:G:120:LEU:HD13	1.81	0.60
10:O:483:SER:HA	10:O:507:PHE:CD2	2.36	0.60
10:O:483:SER:HB2	10:O:508:GLN:HA	1.83	0.60
10:O:583:ALA:O	10:O:586:LEU:HB3	2.02	0.60
10:O:593:THR:HA	10:O:638:PHE:O	2.01	0.60
11:P:14:ILE:HG12	12:Q:17:GLU:OE1	2.02	0.60
12:Q:7:THR:CG2	12:Q:44:ILE:N	2.57	0.60
2:B:73:LYS:NZ	2:B:114:SER:OG	2.21	0.60
2:B:442:LEU:HD22	6:F:309:PHE:CD2	2.37	0.60
3:C:80:GLN:HG2	3:C:83:LEU:HD12	1.83	0.60
3:C:91:GLU:H	3:C:93:ILE:HD11	1.66	0.60
3:C:103:LEU:O	3:C:106:GLN:CB	2.40	0.60
3:C:125:LYS:CA	3:C:128:ILE:HD12	2.32	0.60
4:D:238:ALA:HB2	4:D:307:HIS:HD2	1.67	0.60
4:D:318:ASN:CA	4:D:361:PHE:HD1	2.14	0.60
4:D:385:LEU:HD13	6:F:238:ILE:CG1	2.31	0.60
5:E:309:LYS:O	5:E:313:GLU:HG3	2.01	0.60
6:F:124:TRP:CZ2	6:F:135:ASP:HA	2.36	0.60
6:F:255:GLU:HA	6:F:258:ARG:HE	1.65	0.60
8:H:196:GLN:HG3	8:H:199:ARG:CZ	2.32	0.60
10:O:480:MET:O	10:O:483:SER:OG	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:578:THR:HG21	10:O:656:SER:HB3	1.84	0.60
10:O:718:ILE:HG23	10:O:719:LYS:H	1.67	0.60
11:P:7:ILE:HB	11:P:14:ILE:CB	2.28	0.60
11:P:43:ARG:HH12	11:P:85:PHE:HA	1.67	0.60
2:B:197:ILE:O	2:B:201:GLU:HG3	2.02	0.60
2:B:232:LEU:HD12	10:O:478:THR:HG21	1.82	0.60
2:B:241:GLY:O	2:B:245:HIS:ND1	2.35	0.60
2:B:381:ASP:HB3	2:B:384:ASP:HB2	1.84	0.60
2:B:390:VAL:HA	2:B:393:ILE:HG12	1.82	0.60
2:B:427:TRP:HE1	5:E:270:SER:H	1.49	0.60
4:D:232:CYS:O	4:D:236:ALA:N	2.35	0.60
4:D:387:LYS:HE2	4:D:391:THR:HG21	1.83	0.60
5:E:45:TRP:HA	5:E:48:ASP:O	2.02	0.60
6:F:54:HIS:CB	6:F:88:GLU:HG2	2.32	0.60
7:G:129:GLU:HA	7:G:132:ILE:HB	1.84	0.60
10:O:260:THR:HG22	10:O:263:ILE:HG13	1.83	0.60
10:O:401:LYS:CG	10:O:449:MET:HG3	2.32	0.60
10:O:620:VAL:HG12	10:O:622:MET:HG3	1.83	0.60
12:Q:29:LEU:O	12:Q:33:ILE:CG2	2.43	0.60
1:A:381:LEU:O	1:A:402:TYR:OH	2.09	0.59
1:A:420:ALA:HB1	1:A:422:MET:HE3	1.84	0.59
2:B:241:GLY:O	2:B:244:MET:HB3	2.02	0.59
2:B:264:ASN:HA	2:B:267:GLU:OE1	2.02	0.59
2:B:399:HIS:HB3	2:B:412:ASP:CB	2.30	0.59
3:C:52:GLN:OE1	3:C:52:GLN:N	2.27	0.59
3:C:393:MET:O	3:C:397:ILE:HG13	2.02	0.59
4:D:185:ILE:O	4:D:189:VAL:HG13	2.02	0.59
5:E:147:LEU:HD12	5:E:155:GLN:OE1	2.02	0.59
5:E:148:SER:H	5:E:151:ASP:HB2	1.67	0.59
5:E:212:GLU:O	5:E:216:VAL:HG23	2.01	0.59
5:E:241:LEU:HB2	6:F:190:LEU:HD12	1.82	0.59
5:E:242:TRP:C	6:F:226:SER:HB2	2.21	0.59
6:F:51:ILE:CG2	6:F:154:LEU:HD13	2.32	0.59
6:F:71:ALA:O	6:F:86:SER:HA	2.02	0.59
6:F:81:ILE:HG13	6:F:186:LEU:HD23	1.84	0.59
6:F:112:PHE:HB2	6:F:116:PHE:CD2	2.36	0.59
7:G:27:LEU:HD21	7:G:55:LEU:CG	2.32	0.59
9:N:142:ARG:NH2	10:O:743:TYR:CZ	2.69	0.59
10:O:185:ILE:HD11	10:O:207:PHE:CZ	2.36	0.59
10:O:201:LYS:O	10:O:205:GLU:CB	2.50	0.59
2:B:92:TYR:O	2:B:96:LEU:HG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:175:LEU:HD12	2:B:197:ILE:HD11	1.83	0.59
2:B:193:GLN:N	2:B:229:PRO:HD2	2.17	0.59
2:B:322:ASP:OD1	2:B:324:THR:OG1	2.12	0.59
2:B:370:HIS:HA	2:B:408:LEU:CD2	2.32	0.59
3:C:27:LEU:HD22	3:C:60:ALA:N	2.17	0.59
3:C:128:ILE:HG12	3:C:141:ILE:HD13	1.84	0.59
3:C:198:PHE:HB2	3:C:234:LEU:HD13	1.84	0.59
4:D:120:TRP:CE3	4:D:154:LEU:HD23	2.37	0.59
5:E:246:TRP:HB2	6:F:228:ILE:CG1	2.24	0.59
10:O:21:ILE:CA	10:O:38:ARG:NH1	2.66	0.59
10:O:212:LEU:N	10:O:262:VAL:HB	2.16	0.59
10:O:479:ASP:OD2	10:O:509:ILE:HG12	2.02	0.59
10:O:568:TYR:CB	13:R:18:LYS:CB	2.62	0.59
1:A:143:ARG:HA	1:A:146:GLN:HG2	1.83	0.59
1:A:257:TYR:HE1	1:A:260:LYS:HZ3	1.49	0.59
1:A:339:ARG:O	1:A:343:GLN:HG2	2.02	0.59
2:B:34:ASN:OD1	2:B:57:VAL:HA	2.02	0.59
2:B:71:ALA:HA	2:B:74:GLN:CG	2.32	0.59
2:B:246:LEU:HB2	2:B:279:TYR:OH	2.02	0.59
2:B:428:THR:HG23	6:F:292:LEU:HD22	1.85	0.59
6:F:47:VAL:HG13	6:F:87:PHE:HB3	1.83	0.59
6:F:255:GLU:OE1	7:G:162:ILE:HD12	2.01	0.59
7:G:1:MET:N	7:G:9:SER:O	2.35	0.59
7:G:75:TYR:HB3	7:G:120:LEU:HD21	1.84	0.59
8:H:123:GLN:HG2	8:H:166:LYS:HG2	1.83	0.59
10:O:301:LEU:O	10:O:305:SER:CA	2.50	0.59
10:O:407:THR:HB	10:O:410:GLU:CB	2.32	0.59
10:O:494:ILE:HG12	10:O:539:MET:CG	2.32	0.59
10:O:728:LYS:HB2	10:O:730:TYR:CD2	2.37	0.59
2:B:427:TRP:HD1	5:E:270:SER:CB	2.09	0.59
3:C:233:ILE:HG12	3:C:301:SER:HB3	1.85	0.59
3:C:293:GLY:O	3:C:297:GLN:HG3	2.01	0.59
4:D:351:PHE:CD2	4:D:360:HIS:CD2	2.86	0.59
5:E:59:ALA:CB	6:F:46:LEU:HB2	2.31	0.59
5:E:63:LEU:HD22	6:F:44:HIS:CD2	2.37	0.59
5:E:260:ASP:O	5:E:263:THR:OG1	2.14	0.59
6:F:81:ILE:HD12	6:F:186:LEU:HB3	1.83	0.59
7:G:38:PRO:HA	7:G:41:TYR:CZ	2.37	0.59
7:G:76:PRO:HA	7:G:79:ILE:HD12	1.84	0.59
7:G:196:ASN:HA	7:G:199:LYS:CB	2.32	0.59
10:O:14:TRP:HD1	10:O:60:GLU:N	1.96	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:21:ILE:CA	10:O:38:ARG:HH11	2.14	0.59
10:O:50:PRO:CG	10:O:53:LEU:HB2	2.32	0.59
10:O:107:TYR:HB3	12:Q:96:TYR:HA	1.84	0.59
10:O:157:ALA:CB	10:O:158:ILE:HD12	2.32	0.59
10:O:218:TYR:HA	10:O:221:GLN:CD	2.22	0.59
10:O:336:PRO:HG3	10:O:390:LEU:CD2	2.32	0.59
10:O:408:GLU:OE2	10:O:450:SER:HB2	2.02	0.59
11:P:29:ARG:HB2	15:P:248:HOH:O	2.01	0.59
13:R:88:LEU:HD11	13:R:92:GLN:O	2.02	0.59
1:A:163:ASP:O	1:A:167:VAL:HG23	2.03	0.59
1:A:198:ARG:HH11	1:A:227:TYR:HB3	1.68	0.59
1:A:398:VAL:O	1:A:401:LEU:HG	2.03	0.59
2:B:217:LEU:O	2:B:220:GLN:HB3	2.03	0.59
3:C:120:GLY:O	3:C:124:LEU:CB	2.39	0.59
3:C:177:ASP:OD2	3:C:179:LYS:HB3	2.03	0.59
3:C:216:VAL:HG22	3:C:249:VAL:HG13	1.84	0.59
5:E:64:LYS:HB3	5:E:96:PHE:CB	2.32	0.59
5:E:159:GLN:HE22	5:E:188:THR:H	1.51	0.59
6:F:105:TYR:OH	6:F:121:PHE:HB2	2.01	0.59
6:F:235:VAL:HA	6:F:238:ILE:CD1	2.29	0.59
8:H:22:ASN:OD1	8:H:23:GLN:HG3	2.03	0.59
8:H:123:GLN:CG	8:H:166:LYS:HG2	2.33	0.59
9:N:155:THR:HG22	9:N:157:ALA:H	1.68	0.59
10:O:18:LEU:O	10:O:67:ASN:OD1	2.21	0.59
10:O:203:TYR:CE2	10:O:208:GLU:OE1	2.51	0.59
10:O:211:PHE:HE1	10:O:253:TYR:OH	1.75	0.59
10:O:275:LEU:CD1	10:O:306:THR:OG1	2.50	0.59
10:O:372:LEU:O	10:O:376:VAL:HG23	2.03	0.59
10:O:575:ALA:CB	10:O:650:LYS:HE3	2.32	0.59
10:O:633:ASP:HB2	10:O:636:SER:CB	2.32	0.59
10:O:657:MET:HA	10:O:657:MET:CE	2.33	0.59
1:A:478:MET:HG2	1:A:482:PHE:CZ	2.38	0.59
2:B:151:THR:HA	2:B:154:LYS:NZ	2.18	0.59
3:C:35:LEU:HD13	3:C:39:LEU:CD2	2.32	0.59
5:E:315:ILE:CG1	8:H:207:LEU:HD21	2.32	0.59
6:F:67:GLN:HG2	6:F:98:ILE:HD11	1.85	0.59
7:G:30:LEU:O	7:G:34:VAL:HG23	2.03	0.59
7:G:31:ILE:O	7:G:35:LEU:HG	2.02	0.59
8:H:148:ILE:O	8:H:152:GLY:N	2.34	0.59
10:O:400:LYS:CD	10:O:403:ALA:HB3	2.31	0.59
10:O:411:VAL:HG12	10:O:415:LEU:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:504:GLY:O	13:R:26:LYS:NZ	2.26	0.59
10:O:527:PHE:HE1	10:O:583:ALA:HA	1.67	0.59
10:O:600:GLN:HA	10:O:603:THR:CG2	2.33	0.59
10:O:608:LYS:H	10:O:608:LYS:HD2	1.65	0.59
10:O:700:ILE:O	10:O:700:ILE:HG12	2.02	0.59
10:O:727:ASP:HB2	13:R:46:ARG:HB3	1.81	0.59
1:A:339:ARG:HD3	1:A:370:TYR:OH	2.02	0.59
1:A:369:PHE:HD1	1:A:377:CYS:HG	1.50	0.59
3:C:199:GLU:OE2	3:C:234:LEU:HD11	2.03	0.59
9:N:142:ARG:NH1	10:O:743:TYR:CZ	2.69	0.59
10:O:220:LYS:HD3	10:O:270:MET:HG2	1.83	0.59
10:O:288:GLN:CG	10:O:290:LYS:NZ	2.57	0.59
10:O:421:VAL:HG12	10:O:425:ILE:HD12	1.85	0.59
12:Q:49:PHE:CB	12:Q:54:LEU:HD22	2.33	0.59
1:A:251:TRP:HB3	1:A:255:LEU:CD1	2.33	0.59
1:A:274:ARG:HB3	1:A:277:GLN:CG	2.30	0.59
1:A:497:ARG:HH12	6:F:309:PHE:HD1	1.34	0.59
2:B:297:GLN:HE21	13:R:67:GLU:CB	2.09	0.59
3:C:112:VAL:HA	3:C:115:LYS:C	2.22	0.59
3:C:316:THR:HG23	3:C:358:VAL:H	1.67	0.59
3:C:371:ALA:HA	3:C:374:HIS:CD2	2.38	0.59
5:E:31:TYR:HD1	5:E:84:LYS:HD3	1.68	0.59
5:E:60:LEU:HA	5:E:63:LEU:CG	2.33	0.59
6:F:54:HIS:HA	6:F:88:GLU:HG2	1.84	0.59
6:F:66:VAL:O	6:F:68:VAL:HG13	2.02	0.59
9:N:170:VAL:N	10:O:692:LYS:HD3	2.17	0.59
10:O:73:HIS:NE2	10:O:153:GLU:OE1	2.35	0.59
10:O:188:PHE:CD1	10:O:206:ILE:HG22	2.38	0.59
10:O:212:LEU:HD13	10:O:265:GLU:HB2	1.84	0.59
10:O:417:SER:O	10:O:420:THR:HB	2.03	0.59
10:O:567:ASN:HB2	13:R:20:LYS:C	2.23	0.59
10:O:695:ARG:HD3	10:O:740:GLU:HA	1.85	0.59
13:R:33:TRP:HZ3	13:R:35:TRP:HA	1.68	0.59
13:R:67:GLU:HA	13:R:70:VAL:HG23	1.83	0.59
13:R:93:VAL:O	13:R:95:PRO:HD3	2.02	0.59
1:A:75:LYS:C	1:A:106:HIS:CD2	2.76	0.59
1:A:341:GLU:HB2	1:A:344:ARG:NH2	2.11	0.59
2:B:206:THR:O	2:B:209:LYS:HE3	2.03	0.59
2:B:255:HIS:HB2	2:B:280:LEU:HD11	1.83	0.59
3:C:178:ALA:O	3:C:182:LEU:HG	2.02	0.59
3:C:303:TYR:HA	3:C:306:ASN:OD1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:380:MET:HG2	3:C:384:ILE:CD1	2.33	0.59
4:D:195:LEU:O	4:D:200:LYS:N	2.35	0.59
6:F:69:ILE:HG21	6:F:100:ILE:CD1	2.33	0.59
6:F:108:LYS:HG3	6:F:112:PHE:CE1	2.38	0.59
9:N:134:GLU:OE2	9:N:176:GLY:N	2.36	0.59
10:O:279:HIS:O	10:O:311:MET:HE1	2.03	0.59
10:O:512:LEU:HB2	10:O:517:TRP:CH2	2.38	0.59
10:O:563:GLU:N	10:O:582:MET:SD	2.73	0.59
10:O:627:SER:HB2	10:O:629:LYS:HG3	1.83	0.59
11:P:38:PRO:HD2	11:P:41:GLU:OE1	2.02	0.59
13:R:48:HIS:N	13:R:51:ASP:HB3	2.18	0.59
13:R:57:GLN:CA	13:R:60:GLN:HG3	2.30	0.59
1:A:372:SER:OG	1:A:412:GLN:NE2	2.36	0.59
1:A:436:LEU:O	1:A:439:GLU:HB2	2.03	0.59
3:C:12:VAL:CG1	3:C:46:LEU:HA	2.29	0.59
3:C:366:LYS:O	3:C:366:LYS:HD3	2.02	0.59
5:E:43:LYS:HG2	5:E:45:TRP:CZ2	2.37	0.59
5:E:241:LEU:HD23	6:F:200:VAL:HG11	1.85	0.59
5:E:315:ILE:HB	8:H:207:LEU:HD22	1.85	0.59
6:F:98:ILE:H	6:F:134:SER:HB2	1.67	0.59
6:F:125:TYR:HB3	6:F:152:LEU:HD22	1.85	0.59
7:G:199:LYS:HE3	8:H:208:GLU:HG2	1.85	0.59
10:O:138:GLU:N	10:O:141:GLU:OE1	2.21	0.59
10:O:275:LEU:CD1	10:O:279:HIS:HB3	2.32	0.59
10:O:477:TYR:HA	10:O:480:MET:SD	2.43	0.59
10:O:699:LEU:O	10:O:699:LEU:HD22	2.03	0.59
12:Q:24:MET:C	12:Q:27:PRO:N	2.56	0.59
1:A:75:LYS:C	1:A:106:HIS:HD2	2.06	0.58
1:A:130:MET:N	1:A:130:MET:SD	2.76	0.58
1:A:131:TYR:CE2	1:A:167:VAL:HG11	2.38	0.58
1:A:273:GLU:HG3	1:A:282:LEU:HD21	1.84	0.58
1:A:453:VAL:O	3:C:314:PHE:HB3	2.03	0.58
1:A:473:GLU:HA	1:A:476:LEU:CD2	2.33	0.58
2:B:21:SER:H	10:O:652:LYS:HE2	1.67	0.58
2:B:31:ASP:O	2:B:35:GLN:HG3	2.03	0.58
2:B:282:LEU:HD21	2:B:346:HIS:CG	2.38	0.58
2:B:317:ALA:HA	2:B:320:ASN:CB	2.30	0.58
2:B:338:MET:CE	2:B:344:ARG:HA	2.33	0.58
2:B:403:ASP:OD2	2:B:406:ASN:ND2	2.36	0.58
3:C:85:ILE:CG2	3:C:124:LEU:HA	2.33	0.58
5:E:241:LEU:HD13	6:F:190:LEU:CB	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:250:LEU:HB3	5:E:328:PHE:CE2	2.38	0.58
5:E:331:ILE:CG2	7:G:177:TRP:CZ2	2.86	0.58
7:G:142:GLN:CG	7:G:155:ASP:HB2	2.33	0.58
7:G:144:LYS:O	7:G:153:GLU:N	2.36	0.58
8:H:153:TRP:CD2	8:H:164:PRO:HA	2.38	0.58
10:O:35:TRP:HB3	10:O:104:LEU:HD11	1.68	0.58
10:O:429:ASP:HA	10:O:432:GLN:CG	2.33	0.58
10:O:461:LEU:O	10:O:464:ALA:N	2.36	0.58
10:O:490:PHE:HD1	10:O:494:ILE:HD13	1.68	0.58
11:P:26:GLU:O	11:P:30:ILE:HG12	2.03	0.58
11:P:79:PHE:HB2	15:P:304:HOH:O	2.02	0.58
1:A:79:ASN:HB3	1:A:390:LEU:HD21	1.85	0.58
1:A:127:ASN:CB	1:A:212:GLY:HA3	2.27	0.58
1:A:205:GLY:HA2	1:A:217:ALA:HB1	1.84	0.58
3:C:111:LEU:HD12	3:C:112:VAL:N	2.17	0.58
3:C:155:PHE:CE2	3:C:159:LEU:HD11	2.37	0.58
3:C:253:ILE:HA	3:C:256:LEU:CG	2.33	0.58
3:C:380:MET:O	3:C:384:ILE:HG13	2.03	0.58
4:D:367:LEU:HD23	4:D:370:TRP:HE3	1.67	0.58
7:G:165:LYS:CE	7:G:167:LEU:HD13	2.33	0.58
8:H:142:GLU:HA	8:H:145:VAL:HG23	1.84	0.58
10:O:21:ILE:O	10:O:25:VAL:HG13	2.00	0.58
10:O:550:GLY:CA	13:R:36:ASP:HA	2.33	0.58
10:O:726:ILE:HA	10:O:731:ILE:O	2.03	0.58
11:P:15:PHE:CE2	12:Q:58:VAL:HG21	2.37	0.58
11:P:23:THR:HG23	15:P:219:HOH:O	2.04	0.58
1:A:280:ALA:CB	1:A:283:THR:HG23	2.28	0.58
1:A:341:GLU:O	1:A:344:ARG:HB3	2.02	0.58
1:A:407:ASN:O	1:A:410:LEU:HB3	2.04	0.58
2:B:25:ASN:C	10:O:647:LYS:CG	2.57	0.58
3:C:150:LEU:HD22	3:C:187:TYR:HA	1.85	0.58
3:C:198:PHE:HB2	3:C:234:LEU:HD22	1.84	0.58
3:C:284:GLU:O	3:C:288:ARG:HB2	2.04	0.58
3:C:398:THR:CG2	7:G:213:VAL:CB	2.81	0.58
5:E:63:LEU:HB3	6:F:44:HIS:CD2	2.37	0.58
5:E:63:LEU:HD23	6:F:44:HIS:HB2	1.84	0.58
5:E:104:GLU:O	5:E:210:LYS:HE2	2.04	0.58
5:E:315:ILE:HA	6:F:286:VAL:CG1	2.33	0.58
7:G:62:ALA:O	7:G:86:PRO:HD3	2.03	0.58
7:G:140:ILE:CA	7:G:158:ILE:HG12	2.33	0.58
9:N:107:THR:CG2	9:N:111:LYS:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:10:PHE:HE2	10:O:60:GLU:H	1.48	0.58
10:O:20:THR:CG2	10:O:38:ARG:NE	2.67	0.58
10:O:107:TYR:HA	12:Q:98:SER:OG	2.03	0.58
10:O:202:PHE:O	10:O:206:ILE:N	2.36	0.58
10:O:219:TYR:HE2	10:O:246:GLU:CB	2.15	0.58
10:O:255:HIS:O	10:O:259:TYR:CE1	2.57	0.58
10:O:341:GLU:O	10:O:345:GLU:CB	2.33	0.58
10:O:392:ALA:HA	10:O:395:CYS:HB2	1.85	0.58
10:O:486:LEU:HB2	10:O:507:PHE:CD2	2.38	0.58
10:O:693:VAL:HG11	10:O:702:GLU:OE2	2.04	0.58
1:A:175:LEU:HG	15:A:604:HOH:O	2.02	0.58
1:A:187:ASN:N	15:A:601:HOH:O	2.35	0.58
1:A:381:LEU:CD1	1:A:405:ILE:HD13	2.25	0.58
2:B:359:LEU:CD1	2:B:378:LEU:HD11	2.32	0.58
3:C:190:MET:O	3:C:193:THR:HB	2.03	0.58
3:C:253:ILE:O	3:C:257:SER:N	2.35	0.58
3:C:379:GLU:OE1	3:C:382:LYS:NZ	2.33	0.58
4:D:127:LEU:HD13	4:D:151:ILE:HG13	1.85	0.58
4:D:339:ALA:O	4:D:342:MET:N	2.36	0.58
5:E:59:ALA:HB3	6:F:46:LEU:HD13	1.86	0.58
5:E:98:LEU:HB2	5:E:100:VAL:HG22	1.85	0.58
5:E:146:TRP:CZ3	5:E:148:SER:HA	2.38	0.58
5:E:304:THR:OG1	6:F:300:ASN:CB	2.50	0.58
7:G:74:THR:N	7:G:77:ASP:OD2	2.33	0.58
10:O:226:LEU:HD11	10:O:242:ARG:NE	2.17	0.58
10:O:388:PRO:CA	10:O:391:LEU:HB2	2.33	0.58
12:Q:86:MET:HE2	12:Q:87:SER:CB	2.30	0.58
13:R:33:TRP:CZ3	13:R:35:TRP:HA	2.38	0.58
1:A:286:LYS:CG	1:A:305:CYS:HB3	2.33	0.58
1:A:295:ALA:O	1:A:297:ARG:NH1	2.37	0.58
1:A:450:SER:HB3	1:A:464:ASP:H	1.67	0.58
2:B:5:GLU:O	2:B:9:MET:CB	2.52	0.58
2:B:214:LEU:HD23	2:B:217:LEU:HD12	1.85	0.58
2:B:301:PRO:HA	2:B:304:ASN:OD1	2.02	0.58
3:C:299:LEU:O	3:C:302:LEU:HB3	2.03	0.58
4:D:52:MET:CB	4:D:66:LEU:HD11	2.33	0.58
5:E:304:THR:HB	6:F:300:ASN:CG	2.23	0.58
6:F:41:VAL:HG11	6:F:73:ILE:HB	1.84	0.58
6:F:70:GLY:HA2	6:F:89:LEU:HG	1.85	0.58
6:F:73:ILE:CD1	6:F:119:LEU:HD22	2.33	0.58
6:F:127:THR:HA	6:F:154:LEU:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:185:LEU:HD23	7:G:188:ILE:HD12	1.85	0.58
8:H:200:LEU:HA	8:H:203:TYR:CD2	2.38	0.58
10:O:21:ILE:CD1	10:O:101:MET:HE1	2.31	0.58
10:O:100:TYR:CZ	12:Q:35:GLY:C	2.77	0.58
10:O:226:LEU:HD12	10:O:242:ARG:HE	1.67	0.58
10:O:255:HIS:O	10:O:259:TYR:HE1	1.86	0.58
10:O:282:CYS:N	10:O:297:MET:CE	2.67	0.58
10:O:390:LEU:CA	10:O:393:LYS:HB2	2.27	0.58
10:O:700:ILE:HG21	10:O:718:ILE:CD1	2.33	0.58
1:A:82:LEU:HB3	1:A:87:TYR:HE2	1.67	0.58
1:A:101:GLN:HG2	1:A:134:ILE:HD11	1.86	0.58
1:A:120:SER:O	1:A:123:GLN:HB2	2.03	0.58
1:A:194:LYS:HB3	1:A:198:ARG:HH12	1.68	0.58
2:B:213:LYS:O	2:B:217:LEU:HG	2.03	0.58
2:B:369:ILE:HA	4:D:354:GLN:CD	2.23	0.58
2:B:443:ALA:HB2	3:C:244:TYR:HB2	1.85	0.58
3:C:128:ILE:O	3:C:131:MET:HB3	2.03	0.58
3:C:252:PHE:O	3:C:256:LEU:HG	2.03	0.58
5:E:233:LEU:HD23	6:F:52:SER:CB	2.34	0.58
6:F:240:GLU:C	6:F:243:LYS:HE3	2.04	0.58
8:H:81:ILE:O	8:H:84:ARG:N	2.37	0.58
9:N:106:LYS:CB	9:N:166:VAL:HG13	2.33	0.58
10:O:26:MET:HG3	10:O:89:ARG:CD	2.32	0.58
10:O:522:ALA:HB3	10:O:556:LEU:CD1	2.34	0.58
13:R:52:LEU:HD23	13:R:68:CYS:SG	2.43	0.58
1:A:119:LEU:HD13	1:A:134:ILE:HB	1.85	0.58
1:A:324:ASN:O	1:A:328:TYR:CB	2.50	0.58
1:A:332:CYS:O	1:A:336:THR:HG23	2.02	0.58
2:B:252:GLU:HA	2:B:255:HIS:CD2	2.39	0.58
2:B:296:SER:O	13:R:67:GLU:CD	2.42	0.58
3:C:24:LEU:HD12	3:C:59:LEU:HG	1.84	0.58
3:C:246:SER:CB	3:C:249:VAL:HB	2.33	0.58
3:C:341:MET:HA	3:C:344:ASP:OD2	2.03	0.58
5:E:201:SER:OG	5:E:219:LYS:HD2	2.03	0.58
5:E:240:LEU:HD13	6:F:163:LEU:CA	2.34	0.58
6:F:46:LEU:HD12	6:F:49:LEU:CD1	2.33	0.58
7:G:101:ILE:CD1	7:G:116:LEU:HG	2.33	0.58
7:G:177:TRP:NE1	7:G:181:CYS:SG	2.77	0.58
8:H:122:SER:O	8:H:166:LYS:NZ	2.30	0.58
9:N:129:ARG:O	9:N:132:GLU:HG2	2.04	0.58
9:N:145:TYR:HB2	9:N:150:MSE:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:281:GLU:HG3	10:O:297:MET:CE	2.34	0.58
10:O:301:LEU:O	10:O:305:SER:C	2.41	0.58
10:O:478:THR:O	10:O:482:VAL:HG23	2.03	0.58
10:O:693:VAL:HG12	10:O:699:LEU:CA	2.33	0.58
11:P:45:TYR:HE1	11:P:50:LEU:HD23	1.69	0.58
13:R:88:LEU:CD1	13:R:94:CYS:HB2	2.26	0.58
1:A:197:ILE:HD13	1:A:227:TYR:CE1	2.39	0.58
1:A:364:ASP:HA	1:A:367:PHE:CD2	2.38	0.58
2:B:35:GLN:HG2	2:B:67:TRP:CE2	2.38	0.58
2:B:426:LYS:HA	2:B:429:ASN:CB	2.34	0.58
3:C:216:VAL:HG21	3:C:252:PHE:HD2	1.69	0.58
3:C:252:PHE:CE2	3:C:256:LEU:HD11	2.39	0.58
3:C:386:LEU:O	3:C:390:LEU:HG	2.03	0.58
5:E:296:SER:HB2	5:E:299:LYS:HE3	1.86	0.58
6:F:125:TYR:CB	6:F:152:LEU:HD22	2.34	0.58
7:G:10:ASN:O	7:G:14:GLN:HB2	2.04	0.58
8:H:38:GLY:O	8:H:41:LEU:HB3	2.03	0.58
9:N:142:ARG:NH1	9:N:149:GLN:HE21	2.01	0.58
9:N:161:ILE:HD13	9:N:167:LEU:HD21	1.86	0.58
10:O:222:GLU:CG	10:O:242:ARG:CZ	2.82	0.58
10:O:452:ASP:HA	10:O:455:GLU:CG	2.32	0.58
10:O:468:GLU:OE2	10:O:475:ARG:NH1	2.31	0.58
10:O:688:MET:HE3	10:O:730:TYR:HB3	1.86	0.58
11:P:81:ALA:HB3	11:P:84:THR:CG2	2.32	0.58
12:Q:24:MET:O	12:Q:27:PRO:CA	2.52	0.58
1:A:173:LYS:HB3	1:A:177:LYS:NZ	2.18	0.58
1:A:282:LEU:HD23	1:A:285:LEU:HD12	1.86	0.58
1:A:317:PRO:HG2	1:A:318:GLU:OE1	2.04	0.58
1:A:352:PHE:CG	1:A:355:PHE:HB2	2.39	0.58
1:A:478:MET:HE1	6:F:288:LEU:HD11	1.86	0.58
2:B:143:LYS:NZ	10:O:407:THR:CG2	2.67	0.58
2:B:164:GLU:HG3	2:B:167:LYS:HG3	1.84	0.58
2:B:356:THR:O	2:B:360:ILE:HG13	2.03	0.58
2:B:381:ASP:O	2:B:385:VAL:HG23	2.04	0.58
3:C:23:GLN:HB2	3:C:54:HIS:NE2	2.19	0.58
4:D:324:LEU:HD23	4:D:327:LEU:HD13	1.86	0.58
4:D:397:ALA:O	4:D:401:GLU:HG3	2.04	0.58
5:E:333:ILE:HA	6:F:267:LEU:CD1	2.33	0.58
6:F:291:TYR:O	6:F:294:THR:N	2.36	0.58
7:G:196:ASN:HA	7:G:199:LYS:HB3	1.86	0.58
8:H:46:LEU:HA	8:H:109:LEU:HD13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:LEU:CD1	1:A:405:ILE:HG21	2.34	0.58
1:A:386:ASP:O	1:A:389:LEU:HB3	2.03	0.58
1:A:485:ARG:O	1:A:489:MET:HG2	2.03	0.58
2:B:143:LYS:CE	10:O:408:GLU:HB2	2.33	0.58
2:B:367:THR:HG21	2:B:413:HIS:CD2	2.37	0.58
3:C:7:GLN:CA	3:C:10:ASN:HB2	2.31	0.58
3:C:153:LYS:HE2	8:H:58:LYS:HB3	1.85	0.58
3:C:294:LEU:HA	3:C:297:GLN:CD	2.24	0.58
3:C:352:ASN:HA	8:H:127:SER:N	2.19	0.58
5:E:255:LEU:CG	5:E:321:GLN:HG3	2.29	0.58
6:F:170:SER:HB3	6:F:183:PHE:CE1	2.39	0.58
6:F:257:LEU:HD22	7:G:170:ILE:HG23	1.85	0.58
7:G:19:ALA:HB2	7:G:30:LEU:HD21	1.86	0.58
7:G:101:ILE:HG13	7:G:116:LEU:HG	1.85	0.58
7:G:199:LYS:CG	8:H:209:ASN:O	2.49	0.58
8:H:50:MET:HB2	8:H:82:TRP:CZ2	2.39	0.58
8:H:73:GLY:HA3	8:H:96:HIS:CD2	2.39	0.58
9:N:170:VAL:O	10:O:692:LYS:N	2.36	0.58
10:O:212:LEU:CA	10:O:262:VAL:CB	2.82	0.58
10:O:524:SER:OG	10:O:557:HIS:N	2.36	0.58
1:A:207:HIS:HA	1:A:210:ASP:OD2	2.04	0.57
1:A:277:GLN:CG	1:A:280:ALA:HA	2.34	0.57
2:B:171:ILE:O	2:B:175:LEU:HG	2.02	0.57
2:B:172:LEU:HD22	2:B:197:ILE:HG12	1.86	0.57
2:B:282:LEU:HA	2:B:285:MET:HE3	1.86	0.57
2:B:295:ASP:HA	2:B:300:LYS:CD	2.34	0.57
3:C:13:ARG:HG2	3:C:45:VAL:CG1	2.34	0.57
3:C:91:GLU:N	3:C:93:ILE:HD11	2.19	0.57
3:C:205:TYR:O	3:C:209:ILE:HG12	2.03	0.57
3:C:263:LEU:O	3:C:266:VAL:HB	2.03	0.57
5:E:60:LEU:HG	5:E:94:ASP:OD1	2.04	0.57
6:F:114:GLN:HG3	9:N:132:GLU:C	2.21	0.57
7:G:113:TYR:HB3	7:G:128:LEU:HD21	1.85	0.57
9:N:129:ARG:HA	9:N:132:GLU:CD	2.24	0.57
9:N:159:TYR:O	9:N:160:LYS:HG3	2.03	0.57
10:O:108:LEU:HG	10:O:112:PHE:HD1	1.67	0.57
10:O:354:ILE:O	10:O:358:LEU:HB2	2.04	0.57
10:O:433:LYS:HE3	10:O:674:GLU:OE2	2.04	0.57
10:O:633:ASP:HB2	10:O:636:SER:OG	2.04	0.57
10:O:693:VAL:C	10:O:699:LEU:CG	2.72	0.57
11:P:62:PHE:HA	15:P:300:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:VAL:O	1:A:132:GLU:HG3	2.04	0.57
1:A:250:ASN:O	1:A:254:VAL:HB	2.04	0.57
1:A:407:ASN:O	1:A:411:ILE:HG13	2.03	0.57
1:A:498:ASN:O	3:C:171:LYS:HD3	2.04	0.57
2:B:258:PHE:CD2	2:B:280:LEU:HD13	2.39	0.57
2:B:359:LEU:O	2:B:363:ILE:HG12	2.04	0.57
3:C:214:MET:O	3:C:248:ILE:HD11	2.03	0.57
3:C:334:ALA:O	3:C:338:VAL:HG23	2.04	0.57
5:E:147:LEU:HD12	5:E:155:GLN:HB2	1.85	0.57
10:O:279:HIS:HB3	10:O:307:GLY:HA2	1.85	0.57
10:O:356:THR:OG1	10:O:358:LEU:HD23	2.05	0.57
10:O:568:TYR:CZ	13:R:21:ARG:HD3	2.33	0.57
10:O:594:VAL:HA	10:O:598:GLU:OE1	2.04	0.57
12:Q:6:VAL:HG12	12:Q:29:LEU:HD12	1.73	0.57
12:Q:15:GLU:CD	12:Q:45:GLU:CG	2.67	0.57
12:Q:26:SER:C	12:Q:27:PRO:HG2	2.24	0.57
1:A:181:LEU:HD23	1:A:184:ASP:OD2	2.04	0.57
1:A:460:LEU:HG	1:A:461:TYR:C	2.24	0.57
2:B:354:ILE:HD12	2:B:355:ARG:N	2.19	0.57
3:C:31:SER:OG	3:C:71:VAL:HG22	2.04	0.57
3:C:100:PHE:HA	3:C:104:CYS:CB	2.34	0.57
3:C:101:ALA:HA	3:C:105:HIS:CD2	2.31	0.57
3:C:403:PHE:CE1	6:F:312:LEU:CD2	2.87	0.57
4:D:156:LEU:HD22	4:D:197:TYR:HD2	1.67	0.57
4:D:371:ASP:HA	4:D:374:ILE:HD12	1.85	0.57
4:D:377:LEU:HD12	6:F:263:LEU:HD12	1.85	0.57
5:E:116:TYR:CE2	5:E:117:MET:HG3	2.38	0.57
7:G:136:VAL:HG12	7:G:141:ILE:CG2	2.34	0.57
8:H:41:LEU:HD22	8:H:71:LEU:HD12	1.87	0.57
10:O:4:LYS:CD	10:O:49:TYR:HB3	2.34	0.57
10:O:103:CYS:HB3	12:Q:32:MET:N	2.19	0.57
10:O:123:LEU:HA	10:O:127:TYR:CE1	2.39	0.57
10:O:407:THR:HB	10:O:410:GLU:HB3	1.86	0.57
10:O:485:ASP:OD1	10:O:489:LYS:HE3	2.03	0.57
10:O:732:GLU:HG3	10:O:733:ARG:N	2.18	0.57
12:Q:6:VAL:HG21	12:Q:29:LEU:CD1	2.34	0.57
12:Q:6:VAL:CG2	12:Q:29:LEU:CD1	2.82	0.57
12:Q:74:ASP:N	15:Q:106:HOH:O	2.35	0.57
1:A:301:GLN:HA	1:A:304:LYS:CD	2.34	0.57
2:B:20:TYR:H	10:O:652:LYS:HE2	1.69	0.57
2:B:169:GLN:OE1	2:B:172:LEU:HD12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:314:LEU:HD11	2:B:329:ILE:CG2	2.34	0.57
3:C:19:GLY:H	3:C:21:MET:HE1	1.69	0.57
3:C:25:CYS:HB2	3:C:55:SER:CA	2.34	0.57
3:C:150:LEU:HB2	3:C:191:ILE:HD11	1.86	0.57
3:C:210:THR:HA	3:C:245:THR:HG22	1.86	0.57
3:C:217:SER:O	3:C:221:LEU:HG	2.04	0.57
3:C:263:LEU:HD22	3:C:278:LEU:HD23	1.87	0.57
4:D:404:MET:CE	6:F:161:THR:OG1	2.52	0.57
5:E:68:HIS:CB	5:E:97:ALA:HB3	2.34	0.57
5:E:108:ASN:HB3	9:N:121:ASP:HA	1.86	0.57
5:E:183:LEU:CD2	5:E:226:VAL:HG21	2.33	0.57
6:F:171:VAL:CB	6:F:182:LEU:HD12	2.31	0.57
7:G:99:LEU:HA	7:G:160:ARG:CD	2.34	0.57
7:G:188:ILE:CB	8:H:197:LEU:HD13	2.34	0.57
7:G:188:ILE:CA	8:H:197:LEU:HD13	2.34	0.57
10:O:20:THR:CG2	10:O:38:ARG:HD3	2.26	0.57
10:O:26:MET:CG	10:O:89:ARG:HD2	2.34	0.57
10:O:58:TYR:HD1	10:O:112:PHE:HE2	1.53	0.57
10:O:58:TYR:O	10:O:61:THR:HB	2.05	0.57
10:O:350:PHE:HD2	10:O:368:LEU:HD11	1.60	0.57
10:O:448:SER:HB3	10:O:454:GLU:OE2	2.04	0.57
10:O:456:ALA:O	10:O:460:LYS:HG3	2.04	0.57
10:O:712:ASN:HD22	10:O:712:ASN:H	1.51	0.57
11:P:4:PHE:CE1	12:Q:66:LYS:NZ	2.72	0.57
11:P:45:TYR:HD1	11:P:50:LEU:HA	1.69	0.57
1:A:94:LEU:HG	1:A:98:GLU:OE2	2.04	0.57
1:A:142:THR:O	1:A:146:GLN:HG2	2.05	0.57
1:A:203:ASP:HA	1:A:206:ASP:OD2	2.05	0.57
1:A:355:PHE:HA	1:A:358:LEU:HG	1.86	0.57
1:A:420:ALA:HB3	1:A:460:LEU:CB	2.24	0.57
1:A:449:ILE:HD11	1:A:460:LEU:HD21	1.86	0.57
1:A:452:ARG:HB3	3:C:314:PHE:C	2.25	0.57
2:B:401:ARG:N	2:B:410:GLU:OE2	2.34	0.57
2:B:419:ALA:O	2:B:422:THR:OG1	2.14	0.57
3:C:81:VAL:O	3:C:85:ILE:HG12	2.05	0.57
3:C:286:PHE:HD1	3:C:294:LEU:HB2	1.70	0.57
3:C:331:PRO:O	3:C:334:ALA:HB3	2.03	0.57
4:D:358:ILE:CG1	4:D:360:HIS:CE1	2.88	0.57
7:G:6:LYS:HG2	7:G:7:PRO:O	2.04	0.57
7:G:13:GLU:HA	7:G:16:ILE:HD12	1.86	0.57
7:G:42:VAL:CG2	7:G:161:ASP:HB3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:129:ILE:HB	8:H:132:ASP:OD2	2.04	0.57
9:N:105:VAL:CG1	9:N:167:LEU:HD12	2.35	0.57
9:N:106:LYS:HA	9:N:111:LYS:O	2.04	0.57
10:O:192:GLU:HG3	10:O:199:PRO:O	2.04	0.57
10:O:212:LEU:O	10:O:265:GLU:CD	2.43	0.57
10:O:503:LEU:HG	13:R:26:LYS:CA	2.35	0.57
11:P:3:VAL:HG22	11:P:18:ALA:O	2.04	0.57
2:B:143:LYS:HE3	10:O:408:GLU:HB2	1.87	0.57
2:B:420:ARG:O	2:B:423:ALA:HB3	2.04	0.57
2:B:442:LEU:HD23	6:F:309:PHE:CE2	2.34	0.57
3:C:315:LEU:O	3:C:359:SER:HA	2.04	0.57
4:D:358:ILE:CG2	4:D:360:HIS:HE1	2.17	0.57
5:E:32:ASP:HB3	5:E:35:GLN:HB3	1.87	0.57
6:F:114:GLN:CB	9:N:133:LYS:N	2.65	0.57
6:F:155:ASN:O	6:F:158:THR:HG22	2.05	0.57
6:F:240:GLU:CA	6:F:243:LYS:NZ	2.45	0.57
6:F:270:LEU:CD1	6:F:274:LYS:HE3	2.35	0.57
7:G:15:PHE:CE1	7:G:33:GLN:HG3	2.33	0.57
7:G:89:SER:O	7:G:93:GLN:N	2.28	0.57
9:N:142:ARG:O	9:N:144:ILE:HD12	2.05	0.57
10:O:101:MET:O	10:O:105:TYR:HB3	2.05	0.57
1:A:449:ILE:HB	1:A:463:ARG:N	2.19	0.57
1:A:473:GLU:HA	1:A:476:LEU:HD21	1.85	0.57
2:B:75:MET:O	2:B:79:ASN:ND2	2.37	0.57
2:B:80:PHE:HB3	2:B:85:PHE:HE1	1.68	0.57
2:B:359:LEU:HD21	2:B:378:LEU:HD22	1.86	0.57
2:B:367:THR:O	2:B:411:LEU:N	2.35	0.57
3:C:99:THR:O	3:C:103:LEU:N	2.37	0.57
3:C:397:ILE:O	3:C:400:ASN:ND2	2.38	0.57
5:E:35:GLN:HE21	5:E:39:ILE:HD12	1.69	0.57
5:E:86:ASP:HB2	5:E:91:ILE:HD11	1.86	0.57
6:F:131:PRO:N	6:F:153:LYS:HE3	2.20	0.57
6:F:228:ILE:O	6:F:232:HIS:HB2	2.03	0.57
7:G:42:VAL:HG13	7:G:164:LYS:NZ	2.20	0.57
7:G:112:PRO:HB2	7:G:115:VAL:HG23	1.85	0.57
10:O:155:LEU:HD13	10:O:159:LEU:HD13	1.86	0.57
10:O:182:HIS:ND1	10:O:254:LEU:CG	2.68	0.57
10:O:569:LEU:HD22	10:O:571:LYS:HZ3	1.69	0.57
2:B:218:TYR:HA	2:B:221:SER:HB3	1.87	0.57
2:B:221:SER:HA	2:B:224:ILE:CD1	2.35	0.57
2:B:274:THR:O	2:B:277:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:427:TRP:CE3	5:E:266:VAL:CG1	2.70	0.57
5:E:60:LEU:CD1	5:E:63:LEU:HD12	2.35	0.57
5:E:318:LEU:CG	6:F:286:VAL:HG21	2.35	0.57
6:F:241:TYR:OH	6:F:251:PRO:CG	2.52	0.57
8:H:34:PRO:O	8:H:37:TYR:HB2	2.05	0.57
10:O:81:GLU:HG2	10:O:162:MET:HG3	1.85	0.57
10:O:181:ILE:HB	10:O:185:ILE:CD1	2.35	0.57
10:O:301:LEU:O	10:O:308:LEU:HG	2.05	0.57
10:O:399:LEU:HD22	10:O:450:SER:H	1.69	0.57
10:O:617:LEU:CB	10:O:623:ILE:HB	2.33	0.57
10:O:688:MET:CG	10:O:731:ILE:HB	2.35	0.57
10:O:700:ILE:HD12	10:O:718:ILE:CA	2.35	0.57
10:O:720:LYS:HA	10:O:723:GLU:CG	2.34	0.57
1:A:265:PRO:O	1:A:269:GLU:HA	2.04	0.57
2:B:285:MET:HG3	2:B:350:LEU:HD11	1.87	0.57
5:E:75:LEU:HD22	5:E:101:GLU:CG	2.29	0.57
5:E:77:VAL:CB	5:E:98:LEU:H	2.17	0.57
5:E:172:PRO:O	5:E:176:ILE:HG13	2.05	0.57
5:E:233:LEU:HD23	6:F:52:SER:HB2	1.85	0.57
6:F:69:ILE:HG23	6:F:124:TRP:HB2	1.86	0.57
8:H:12:SER:HA	8:H:15:LYS:HD3	1.86	0.57
10:O:236:MET:CE	10:O:300:LEU:CB	2.82	0.57
10:O:324:LEU:O	10:O:328:SER:OG	2.16	0.57
10:O:409:ASN:CA	10:O:412:GLU:HB2	2.33	0.57
10:O:622:MET:HE2	10:O:653:ILE:HB	1.87	0.57
11:P:76:GLY:N	15:P:240:HOH:O	2.31	0.57
1:A:306:LEU:HD13	1:A:329:GLY:CA	2.34	0.57
1:A:442:GLN:HA	1:A:445:LEU:CD1	2.34	0.57
2:B:46:ASP:CB	2:B:48:LYS:HE2	2.33	0.57
2:B:101:SER:O	2:B:103:VAL:HG23	2.05	0.57
2:B:372:PRO:HD3	2:B:407:GLN:O	2.04	0.57
2:B:438:VAL:CB	6:F:302:MET:SD	2.92	0.57
3:C:318:SER:O	3:C:322:MET:N	2.37	0.57
3:C:339:LEU:O	3:C:342:ILE:HB	2.04	0.57
3:C:366:LYS:HB3	3:C:368:ASN:ND2	2.20	0.57
4:D:317:ASN:HA	7:G:144:LYS:NZ	2.19	0.57
5:E:54:TYR:HB2	5:E:89:THR:OG1	2.05	0.57
5:E:60:LEU:HB3	5:E:93:MET:O	2.04	0.57
5:E:63:LEU:HA	6:F:44:HIS:HB2	1.87	0.57
5:E:243:ASN:N	6:F:226:SER:HB2	2.20	0.57
6:F:109:GLU:HA	6:F:112:PHE:CZ	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:13:PHE:CE1	8:H:105:ILE:HG22	2.40	0.57
10:O:22:LYS:CB	10:O:67:ASN:C	2.73	0.57
10:O:113:ILE:HD13	10:O:138:GLU:CG	2.35	0.57
10:O:185:ILE:CD1	10:O:207:PHE:CZ	2.88	0.57
10:O:555:TRP:HH2	13:R:27:TRP:HZ2	1.52	0.57
10:O:577:VAL:HG12	10:O:653:ILE:CD1	2.35	0.57
10:O:621:LYS:CB	10:O:643:ASN:HB3	2.35	0.57
10:O:692:LYS:CB	10:O:743:TYR:HB2	2.35	0.57
10:O:697:ASN:HA	10:O:718:ILE:HD11	1.87	0.57
1:A:230:SER:HB3	1:A:233:HIS:ND1	2.19	0.56
1:A:440:LEU:O	1:A:443:LEU:HB2	2.05	0.56
1:A:441:THR:HA	1:A:444:ILE:CD1	2.31	0.56
1:A:484:ARG:HH21	3:C:203:TYR:HB2	1.68	0.56
2:B:86:PRO:HA	2:B:89:MET:CB	2.34	0.56
5:E:78:MET:CE	9:N:128:GLU:CB	2.69	0.56
7:G:27:LEU:O	7:G:30:LEU:HB3	2.05	0.56
7:G:77:ASP:O	7:G:81:ASN:N	2.18	0.56
7:G:146:ASP:HB3	7:G:151:LEU:HB2	1.87	0.56
8:H:130:ALA:H	8:H:160:ARG:HG2	1.70	0.56
9:N:150:MSE:HG2	9:N:159:TYR:CD2	2.40	0.56
10:O:6:ARG:NE	10:O:52:PRO:HG3	2.15	0.56
10:O:185:ILE:CD1	10:O:207:PHE:CE1	2.87	0.56
10:O:490:PHE:CD1	10:O:494:ILE:HD13	2.40	0.56
10:O:588:PHE:CZ	10:O:599:LEU:HD22	2.39	0.56
11:P:70:GLN:NE2	12:Q:78:PRO:CB	2.67	0.56
1:A:421:ASP:OD1	1:A:422:MET:N	2.38	0.56
2:B:241:GLY:HA2	2:B:244:MET:HB3	1.88	0.56
2:B:306:PRO:O	2:B:309:LEU:HG	2.05	0.56
2:B:329:ILE:HG22	2:B:333:ASN:HD21	1.70	0.56
3:C:103:LEU:HD11	3:C:107:LEU:HD23	1.87	0.56
3:C:117:PRO:CG	3:C:121:ILE:HD11	2.31	0.56
3:C:129:ASP:OD2	3:C:161:TYR:OH	2.21	0.56
3:C:225:LYS:O	3:C:229:LEU:HG	2.05	0.56
4:D:370:TRP:HD1	6:F:269:VAL:CG1	2.17	0.56
5:E:89:THR:HG22	5:E:90:MET:O	2.05	0.56
6:F:236:LYS:CD	6:F:239:LEU:HD23	2.34	0.56
10:O:340:VAL:HG22	10:O:387:ALA:CB	2.33	0.56
10:O:462:LYS:HG3	10:O:467:TYR:HA	1.85	0.56
10:O:522:ALA:HB1	10:O:558:TYR:CD2	2.41	0.56
10:O:695:ARG:HD3	10:O:740:GLU:CG	2.35	0.56
11:P:34:ILE:HD11	12:Q:5:PHE:CZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:52:ASP:HB2	11:P:55:LYS:HG3	1.87	0.56
1:A:169:ALA:O	1:A:173:LYS:HG3	2.05	0.56
1:A:171:ARG:CZ	1:A:172:LYS:HE3	2.36	0.56
1:A:300:LYS:HB2	1:A:304:LYS:NZ	2.20	0.56
1:A:321:SER:O	1:A:325:VAL:HG23	2.05	0.56
1:A:322:PRO:HB2	1:A:358:LEU:HD13	1.85	0.56
1:A:387:ASN:O	1:A:390:LEU:HB2	2.06	0.56
1:A:388:LEU:HD11	1:A:398:VAL:CG2	2.34	0.56
1:A:418:VAL:HG22	1:A:461:TYR:CE1	2.40	0.56
1:A:452:ARG:HB3	3:C:315:LEU:N	2.20	0.56
1:A:485:ARG:HH21	2:B:436:GLN:HE21	1.52	0.56
2:B:115:ILE:HG22	2:B:119:ILE:HD12	1.88	0.56
2:B:130:GLU:HA	2:B:133:GLU:HG3	1.86	0.56
2:B:292:ASN:HA	2:B:295:ASP:OD2	2.06	0.56
2:B:305:ASP:OD1	2:B:306:PRO:HD2	2.05	0.56
2:B:346:HIS:ND1	2:B:349:GLU:OE1	2.30	0.56
3:C:39:LEU:HD22	3:C:42:LEU:HD11	1.87	0.56
3:C:108:THR:O	3:C:111:LEU:HG	2.05	0.56
3:C:129:ASP:HA	3:C:132:GLN:CG	2.27	0.56
3:C:310:LEU:CD1	3:C:326:VAL:HG21	2.36	0.56
4:D:139:TYR:O	4:D:144:LYS:NZ	2.26	0.56
5:E:25:ILE:CD1	5:E:232:SER:HB3	2.34	0.56
5:E:76:GLU:CB	5:E:103:THR:HB	2.32	0.56
5:E:82:LEU:HG	5:E:117:MET:SD	2.45	0.56
5:E:123:ASN:HB2	6:F:111:GLN:NE2	2.20	0.56
5:E:129:ARG:NH2	6:F:88:GLU:HB2	2.19	0.56
5:E:200:PRO:HD2	5:E:222:TYR:CB	2.36	0.56
5:E:268:ASP:OD1	5:E:272:LYS:HE3	2.05	0.56
5:E:331:ILE:O	6:F:267:LEU:HB3	2.05	0.56
6:F:203:VAL:HA	6:F:206:MET:CG	2.35	0.56
6:F:278:ASP:O	6:F:281:ASP:HB2	2.06	0.56
7:G:27:LEU:HG	7:G:30:LEU:HD23	1.88	0.56
7:G:52:VAL:HA	7:G:55:LEU:HB3	1.87	0.56
7:G:180:GLY:O	7:G:184:VAL:HG23	2.06	0.56
7:G:195:ALA:O	7:G:199:LYS:N	2.38	0.56
8:H:50:MET:O	8:H:53:ALA:HB3	2.04	0.56
10:O:20:THR:CG2	10:O:38:ARG:HG2	2.36	0.56
10:O:26:MET:CG	10:O:89:ARG:CD	2.83	0.56
10:O:63:ILE:O	10:O:66:GLU:HB3	2.05	0.56
10:O:158:ILE:O	10:O:162:MET:HG2	2.06	0.56
10:O:219:TYR:O	10:O:270:MET:HE3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:282:CYS:N	10:O:297:MET:HE2	2.20	0.56
10:O:308:LEU:O	10:O:312:ILE:HD12	2.05	0.56
10:O:412:GLU:CG	10:O:415:LEU:HD12	2.30	0.56
10:O:550:GLY:HA3	13:R:36:ASP:CA	2.35	0.56
10:O:551:ARG:NE	13:R:33:TRP:N	2.18	0.56
10:O:568:TYR:H	13:R:20:LYS:CA	2.18	0.56
10:O:585:LEU:HD11	13:R:22:PHE:HE2	1.62	0.56
10:O:626:ASP:HB2	10:O:636:SER:CB	2.35	0.56
10:O:688:MET:CE	10:O:725:LEU:CG	2.83	0.56
11:P:7:ILE:CA	11:P:75:VAL:HB	2.34	0.56
11:P:10:HIS:HD2	11:P:89:CYS:HB3	1.69	0.56
11:P:37:ARG:HG3	15:P:210:HOH:O	2.05	0.56
11:P:40:ASP:HA	11:P:80:ARG:HH11	1.70	0.56
11:P:57:LEU:HD22	11:P:62:PHE:CD2	2.41	0.56
11:P:75:VAL:HA	15:P:211:HOH:O	2.05	0.56
12:Q:6:VAL:CG2	12:Q:29:LEU:CG	2.74	0.56
1:A:294:LEU:HA	1:A:299:TYR:CZ	2.41	0.56
1:A:373:LYS:HE3	1:A:376:SER:CB	2.36	0.56
2:B:145:ASP:HB3	2:B:146:ARG:HH11	1.70	0.56
2:B:426:LYS:HA	2:B:429:ASN:HB2	1.88	0.56
3:C:59:LEU:HD22	3:C:63:PHE:HE1	1.69	0.56
3:C:143:ALA:HA	3:C:187:TYR:CE1	2.38	0.56
3:C:350:SER:O	3:C:358:VAL:HG22	2.04	0.56
5:E:56:LYS:NZ	5:E:86:ASP:OD2	2.37	0.56
5:E:318:LEU:HD21	6:F:283:CYS:HA	1.86	0.56
6:F:41:VAL:O	6:F:75:LYS:HD3	2.06	0.56
6:F:124:TRP:CZ3	6:F:126:THR:HB	2.41	0.56
7:G:140:ILE:CB	7:G:158:ILE:HG12	2.35	0.56
8:H:111:ASP:OD1	8:H:114:ARG:NH1	2.26	0.56
8:H:145:VAL:HG22	8:H:160:ARG:HH12	1.71	0.56
10:O:261:LYS:C	10:O:262:VAL:N	2.59	0.56
10:O:412:GLU:HA	10:O:415:LEU:HD12	1.88	0.56
10:O:618:LEU:HB3	10:O:628:GLU:OE2	2.05	0.56
11:P:13:THR:HG23	15:Q:107:HOH:O	2.06	0.56
11:P:96:PRO:HB3	12:Q:85:GLU:OE2	2.03	0.56
13:R:37:ILE:HG22	13:R:38:VAL:H	1.70	0.56
13:R:84:ILE:HG21	13:R:102:GLU:O	2.04	0.56
13:R:99:ARG:HD2	13:R:100:GLU:O	2.05	0.56
1:A:104:ALA:CB	1:A:111:ARG:HA	2.36	0.56
1:A:385:LYS:HE2	1:A:399:ARG:HH22	1.69	0.56
2:B:277:LEU:O	2:B:281:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:280:LEU:HG	2:B:284:ASN:HD21	1.71	0.56
2:B:322:ASP:HB3	2:B:325:GLU:HG2	1.86	0.56
3:C:85:ILE:O	3:C:89:ASN:HB3	2.05	0.56
3:C:125:LYS:HA	3:C:128:ILE:CD1	2.34	0.56
3:C:230:VAL:O	3:C:234:LEU:N	2.37	0.56
3:C:392:ALA:O	3:C:395:GLN:HB3	2.04	0.56
5:E:81:MET:HE3	5:E:136:TRP:H	1.70	0.56
7:G:112:PRO:HA	7:G:150:GLN:O	2.06	0.56
8:H:41:LEU:O	8:H:45:LEU:HG	2.06	0.56
8:H:196:GLN:HG3	8:H:199:ARG:NH1	2.20	0.56
9:N:107:THR:HA	9:N:169:LEU:HB3	1.86	0.56
9:N:108:LEU:CD1	10:O:687:ILE:CG2	2.53	0.56
10:O:148:ARG:HH11	10:O:194:TYR:HD1	1.44	0.56
10:O:208:GLU:CD	10:O:261:LYS:HB2	2.22	0.56
10:O:210:PRO:CA	10:O:213:THR:HB	2.35	0.56
10:O:281:GLU:C	10:O:297:MET:HE1	2.21	0.56
10:O:696:HIS:HB3	10:O:739:ASP:OD1	2.05	0.56
2:B:172:LEU:HD22	2:B:197:ILE:CD1	2.35	0.56
2:B:274:THR:HA	2:B:277:LEU:HD21	1.86	0.56
2:B:333:ASN:HB3	2:B:337:ILE:CB	2.34	0.56
3:C:89:ASN:OD1	3:C:90:GLY:N	2.38	0.56
3:C:321:ASP:O	3:C:325:ARG:NH1	2.39	0.56
4:D:124:ALA:HB2	4:D:154:LEU:HB2	1.88	0.56
5:E:224:LEU:O	5:E:226:VAL:HG23	2.05	0.56
6:F:181:MET:O	6:F:182:LEU:HD23	2.05	0.56
7:G:203:LEU:CG	8:H:209:ASN:O	2.54	0.56
8:H:107:GLU:HA	8:H:110:ARG:NH1	2.20	0.56
9:N:102:LEU:HD12	9:N:115:ILE:O	2.05	0.56
9:N:145:TYR:HB2	9:N:150:MSE:HG3	1.88	0.56
10:O:10:PHE:CZ	10:O:59:THR:N	2.71	0.56
10:O:24:VAL:HG11	10:O:30:VAL:CB	2.27	0.56
10:O:101:MET:HB3	10:O:139:ILE:HD13	1.88	0.56
10:O:285:ILE:CB	10:O:294:MET:HB2	2.35	0.56
10:O:381:PRO:C	10:O:382:LYS:HG2	2.26	0.56
10:O:555:TRP:CH2	13:R:27:TRP:HZ2	2.24	0.56
10:O:660:ASP:HB3	10:O:663:GLN:HB3	1.87	0.56
11:P:103:MET:SD	12:Q:86:MET:N	2.78	0.56
1:A:388:LEU:HA	1:A:394:LEU:HD12	1.88	0.56
2:B:172:LEU:O	2:B:176:HIS:ND1	2.38	0.56
3:C:93:ILE:CG1	3:C:130:LYS:HG3	2.36	0.56
5:E:80:LEU:HD21	5:E:133:ALA:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:82:LEU:N	5:E:94:ASP:HB3	2.18	0.56
5:E:115:GLU:N	9:N:132:GLU:OE2	2.39	0.56
5:E:125:LYS:HB3	5:E:130:LEU:HD23	1.85	0.56
5:E:194:LYS:HG3	5:E:195:PRO:HD2	1.88	0.56
5:E:246:TRP:CG	6:F:228:ILE:HG13	2.38	0.56
5:E:310:THR:HA	5:E:313:GLU:CD	2.26	0.56
7:G:27:LEU:HD11	7:G:55:LEU:HB2	1.86	0.56
7:G:101:ILE:HD12	7:G:116:LEU:HG	1.88	0.56
10:O:58:TYR:HB2	10:O:112:PHE:HD2	1.70	0.56
10:O:115:LYS:HB3	10:O:136:LEU:HD12	1.86	0.56
10:O:217:GLU:O	10:O:221:GLN:HG3	2.05	0.56
10:O:222:GLU:CD	10:O:242:ARG:NE	2.59	0.56
10:O:335:MET:HE2	10:O:336:PRO:CD	2.36	0.56
10:O:389:GLU:O	10:O:438:MET:HE1	2.06	0.56
10:O:461:LEU:HD22	10:O:465:CYS:SG	2.46	0.56
10:O:622:MET:O	10:O:641:ASN:N	2.39	0.56
11:P:3:VAL:HG11	11:P:62:PHE:CB	2.32	0.56
11:P:45:TYR:HA	11:P:49:GLN:O	2.05	0.56
13:R:37:ILE:HA	13:R:72:TRP:CE2	2.40	0.56
1:A:387:ASN:HA	1:A:390:LEU:CD1	2.35	0.56
1:A:438:ASP:HA	1:A:441:THR:OG1	2.05	0.56
1:A:440:LEU:HA	1:A:443:LEU:CD1	2.30	0.56
2:B:157:LYS:HD2	2:B:160:LEU:HD11	1.86	0.56
2:B:315:VAL:O	2:B:318:TYR:HB2	2.06	0.56
2:B:359:LEU:HD11	2:B:378:LEU:HD21	1.88	0.56
3:C:103:LEU:CD1	3:C:107:LEU:HD23	2.36	0.56
5:E:35:GLN:HA	5:E:38:GLU:OE1	2.05	0.56
5:E:124:ALA:O	5:E:129:ARG:HB2	2.06	0.56
6:F:43:LEU:HD22	6:F:84:MET:CB	2.35	0.56
6:F:168:PHE:CE1	6:F:185:GLU:HB2	2.40	0.56
8:H:195:GLN:HB2	8:H:196:GLN:OE1	2.05	0.56
10:O:118:LEU:CD1	10:O:129:GLY:HA2	2.34	0.56
10:O:301:LEU:HB3	10:O:307:GLY:H	1.70	0.56
10:O:388:PRO:HA	10:O:391:LEU:CB	2.34	0.56
10:O:415:LEU:O	10:O:419:ILE:HG13	2.05	0.56
10:O:551:ARG:CD	13:R:32:LEU:HB3	2.35	0.56
10:O:621:LYS:HB3	10:O:643:ASN:HB3	1.88	0.56
10:O:694:LEU:HD21	10:O:699:LEU:HD21	1.88	0.56
11:P:90:ILE:HG22	15:P:226:HOH:O	2.05	0.56
13:R:79:PHE:HD2	13:R:96:LEU:HD23	1.71	0.56
1:A:354:LEU:HA	1:A:357:GLU:CG	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ALA:HB1	1:A:460:LEU:CD1	2.32	0.56
1:A:453:VAL:HB	3:C:314:PHE:CD1	2.41	0.56
2:B:157:LYS:NZ	2:B:196:GLU:OE2	2.39	0.56
2:B:194:LEU:CA	2:B:197:ILE:HD12	2.35	0.56
3:C:26:GLU:CB	3:C:56:LEU:HA	2.36	0.56
3:C:74:PHE:CD2	3:C:75:GLU:HG2	2.41	0.56
4:D:5:VAL:HG13	4:D:29:ILE:HG22	1.88	0.56
4:D:123:ALA:CB	4:D:154:LEU:HD22	2.36	0.56
4:D:380:GLN:NE2	7:G:156:PHE:HE1	2.01	0.56
5:E:146:TRP:CH2	5:E:206:ILE:HD12	2.40	0.56
6:F:41:VAL:HG11	6:F:73:ILE:CG1	2.36	0.56
7:G:170:ILE:O	7:G:174:LEU:HG	2.06	0.56
8:H:20:CYS:HB3	8:H:40:LEU:HD21	1.87	0.56
8:H:22:ASN:O	8:H:26:GLU:HG3	2.06	0.56
8:H:103:GLN:O	8:H:106:MET:HB2	2.06	0.56
9:N:145:TYR:N	9:N:148:LYS:O	2.29	0.56
10:O:117:LYS:C	10:O:128:GLY:HA3	2.26	0.56
10:O:501:ILE:CD1	10:O:503:LEU:HD22	2.36	0.56
10:O:607:GLU:HB3	10:O:630:GLU:HB3	1.88	0.56
10:O:620:VAL:CG1	10:O:644:PHE:HA	2.36	0.56
11:P:28:LYS:HB3	11:P:39:PRO:HA	1.87	0.56
11:P:99:LEU:HD11	15:P:271:HOH:O	2.06	0.56
1:A:130:MET:O	1:A:134:ILE:HG12	2.06	0.56
1:A:189:LYS:NZ	12:Q:71:SER:HB2	2.21	0.56
1:A:218:LEU:HD23	1:A:222:SER:HB2	1.87	0.56
1:A:471:THR:HA	1:A:474:LYS:CD	2.36	0.56
1:A:480:LYS:O	1:A:483:GLN:HG2	2.06	0.56
2:B:37:TYR:HE2	2:B:60:LEU:HD12	1.71	0.56
2:B:156:GLY:HA2	2:B:159:TYR:HB2	1.88	0.56
2:B:212:LYS:O	2:B:215:LYS:HB3	2.05	0.56
2:B:255:HIS:HE1	13:R:62:SER:H	1.54	0.56
3:C:158:ALA:O	3:C:161:TYR:N	2.39	0.56
3:C:372:MET:HA	3:C:375:ASN:OD1	2.05	0.56
4:D:317:ASN:HD21	7:G:144:LYS:HB2	1.53	0.56
4:D:319:ILE:O	4:D:358:ILE:HD12	2.06	0.56
5:E:304:THR:CB	6:F:300:ASN:ND2	2.65	0.56
6:F:90:LEU:HD23	6:F:101:ASP:HB3	1.88	0.56
10:O:25:VAL:HG12	10:O:68:HIS:ND1	2.19	0.56
10:O:107:TYR:HA	12:Q:98:SER:CB	2.35	0.56
10:O:219:TYR:CE2	10:O:246:GLU:CD	2.74	0.56
10:O:271:VAL:CG1	10:O:304:VAL:CG2	2.84	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:567:ASN:ND2	13:R:22:PHE:H	2.04	0.56
10:O:608:LYS:HG3	10:O:630:GLU:OE1	2.06	0.56
10:O:700:ILE:HD12	10:O:718:ILE:HA	1.88	0.56
11:P:86:GLU:HG3	15:P:293:HOH:O	2.05	0.56
1:A:193:ILE:O	1:A:197:ILE:N	2.33	0.55
1:A:219:LYS:HA	1:A:222:SER:HB3	1.87	0.55
1:A:352:PHE:C	1:A:356:LEU:HD13	2.26	0.55
2:B:55:GLN:O	2:B:59:GLU:HG3	2.05	0.55
2:B:237:ILE:HG13	2:B:238:ARG:HD2	1.88	0.55
2:B:431:LEU:O	2:B:434:LEU:HB3	2.06	0.55
4:D:317:ASN:HD22	7:G:145:LEU:C	2.08	0.55
5:E:144:GLY:N	5:E:172:PRO:HD2	2.21	0.55
7:G:146:ASP:HB3	7:G:151:LEU:C	2.26	0.55
7:G:188:ILE:CG1	8:H:197:LEU:CD2	2.83	0.55
10:O:212:LEU:HB3	10:O:265:GLU:HB3	1.86	0.55
10:O:527:PHE:HB3	10:O:529:ILE:CD1	2.35	0.55
10:O:549:SER:N	13:R:33:TRP:CZ2	2.74	0.55
10:O:656:SER:O	10:O:657:MET:O	2.25	0.55
11:P:30:ILE:HD13	15:P:287:HOH:O	2.06	0.55
1:A:104:ALA:CB	1:A:111:ARG:HG3	2.29	0.55
1:A:503:LYS:O	3:C:215:ALA:N	2.38	0.55
2:B:80:PHE:HB2	2:B:118:TYR:CE2	2.41	0.55
2:B:294:PHE:CE2	2:B:300:LYS:HG3	2.42	0.55
3:C:47:GLY:HA2	3:C:84:PHE:CD1	2.40	0.55
3:C:365:GLU:HB3	3:C:372:MET:CE	2.36	0.55
3:C:394:ASP:HA	3:C:397:ILE:HD12	1.89	0.55
4:D:95:ARG:HG2	10:O:534:GLU:OE1	2.05	0.55
4:D:309:LEU:HD13	4:D:309:LEU:O	2.06	0.55
5:E:65:MET:SD	5:E:170:ILE:HD12	2.45	0.55
5:E:78:MET:HE3	9:N:128:GLU:CD	2.27	0.55
5:E:113:ALA:HB2	9:N:128:GLU:CD	2.19	0.55
6:F:72:LEU:HD11	6:F:152:LEU:N	2.20	0.55
6:F:81:ILE:CD1	6:F:186:LEU:HD23	2.36	0.55
6:F:254:HIS:HB3	7:G:162:ILE:CD1	2.35	0.55
7:G:96:LEU:HA	7:G:99:LEU:HD12	1.88	0.55
8:H:48:ASN:HB3	8:H:116:ARG:HH22	1.70	0.55
8:H:50:MET:HB3	8:H:82:TRP:HE1	1.70	0.55
8:H:76:SER:HA	8:H:79:GLN:CD	2.27	0.55
9:N:144:ILE:H	9:N:168:HIS:HB2	1.69	0.55
10:O:193:GLN:HG3	10:O:195:LYS:N	2.21	0.55
10:O:294:MET:SD	10:O:311:MET:CG	2.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:397:ASN:O	10:O:404:LYS:HB2	2.06	0.55
10:O:696:HIS:HB3	10:O:739:ASP:CB	2.36	0.55
11:P:2:ASP:HB3	11:P:17:ASP:HB2	1.89	0.55
11:P:27:LEU:HD12	11:P:44:LEU:CD1	2.33	0.55
11:P:69:PRO:HA	12:Q:62:ASN:HD22	1.72	0.55
11:P:81:ALA:HA	15:P:303:HOH:O	2.04	0.55
12:Q:70:VAL:HG23	15:Q:113:HOH:O	2.07	0.55
1:A:241:VAL:O	1:A:244:VAL:HB	2.05	0.55
1:A:300:LYS:HG3	1:A:301:GLN:H	1.71	0.55
2:B:76:ILE:HG23	2:B:88:MET:CG	2.36	0.55
2:B:324:THR:HB	2:B:328:LYS:NZ	2.22	0.55
2:B:438:VAL:CG1	6:F:302:MET:HG2	2.36	0.55
3:C:85:ILE:HG21	3:C:124:LEU:CA	2.35	0.55
3:C:97:THR:CA	3:C:100:PHE:HB3	2.31	0.55
3:C:103:LEU:HD12	3:C:106:GLN:HG2	1.87	0.55
3:C:328:LEU:HB3	3:C:337:TYR:OH	2.06	0.55
3:C:349:ALA:HB1	3:C:358:VAL:HG13	1.88	0.55
4:D:363:THR:OG1	6:F:274:LYS:NZ	2.39	0.55
6:F:43:LEU:HD23	6:F:191:ALA:N	2.18	0.55
6:F:252:PHE:CZ	7:G:167:LEU:HD22	2.41	0.55
7:G:47:LEU:CD1	7:G:52:VAL:HG12	2.36	0.55
7:G:92:GLN:HA	7:G:95:LYS:CD	2.25	0.55
8:H:103:GLN:O	8:H:107:GLU:HG3	2.06	0.55
10:O:32:ARG:HG3	10:O:35:TRP:CE3	2.42	0.55
10:O:406:MET:HB2	10:O:411:VAL:CG2	2.37	0.55
10:O:513:GLN:HA	10:O:551:ARG:HH12	1.70	0.55
10:O:535:LYS:HG3	10:O:538:GLN:NE2	2.22	0.55
1:A:439:GLU:O	1:A:442:GLN:HB3	2.06	0.55
2:B:155:LEU:O	2:B:158:LEU:HB2	2.05	0.55
2:B:159:TYR:O	2:B:163:GLU:N	2.39	0.55
2:B:274:THR:HA	2:B:277:LEU:CD2	2.36	0.55
3:C:146:CYS:HA	3:C:149:CYS:SG	2.46	0.55
3:C:355:ASP:O	3:C:357:MET:HE2	2.06	0.55
4:D:351:PHE:O	4:D:360:HIS:N	2.40	0.55
4:D:365:GLU:HA	6:F:270:LEU:HD11	1.86	0.55
4:D:388:ILE:CG2	6:F:241:TYR:CE2	2.90	0.55
5:E:315:ILE:CB	8:H:207:LEU:CD2	2.83	0.55
6:F:43:LEU:HD23	6:F:191:ALA:HB2	1.89	0.55
6:F:43:LEU:CG	6:F:84:MET:HB3	2.37	0.55
6:F:135:ASP:OD2	6:F:153:LYS:NZ	2.36	0.55
7:G:62:ALA:O	7:G:65:GLN:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:104:LYS:HB2	9:N:165:SER:O	2.07	0.55
9:N:155:THR:HG22	9:N:157:ALA:N	2.22	0.55
10:O:332:GLN:H	10:O:332:GLN:CD	2.09	0.55
10:O:394:TYR:HE2	10:O:414:ARG:HG2	1.71	0.55
10:O:535:LYS:HA	10:O:538:GLN:NE2	2.22	0.55
11:P:1:MET:O	11:P:19:LYS:HA	2.05	0.55
11:P:4:PHE:CZ	12:Q:66:LYS:CG	2.90	0.55
11:P:8:ARG:NH1	11:P:90:ILE:HG23	2.22	0.55
1:A:449:ILE:CA	1:A:463:ARG:HB2	2.36	0.55
2:B:211:ASN:OD1	2:B:214:LEU:HD12	2.06	0.55
2:B:323:ILE:HA	2:B:326:PHE:CE1	2.42	0.55
3:C:36:ALA:O	3:C:39:LEU:HG	2.05	0.55
3:C:237:LYS:HA	3:C:267:TYR:CE2	2.41	0.55
3:C:265:GLN:O	3:C:268:SER:OG	2.21	0.55
3:C:294:LEU:HD23	3:C:297:GLN:NE2	2.21	0.55
4:D:388:ILE:HG21	6:F:241:TYR:HD2	1.69	0.55
5:E:244:LYS:CD	6:F:230:MET:CB	2.84	0.55
7:G:7:PRO:CG	7:G:37:ALA:HB1	2.36	0.55
7:G:100:THR:HG21	7:G:120:LEU:HD21	1.88	0.55
7:G:103:SER:O	7:G:106:SER:HB3	2.07	0.55
7:G:199:LYS:HE2	7:G:203:LEU:CD1	2.32	0.55
10:O:16:LYS:CD	10:O:41:ASP:CB	2.23	0.55
10:O:16:LYS:C	10:O:41:ASP:OD2	2.44	0.55
10:O:57:LEU:HD21	10:O:108:LEU:CD1	2.33	0.55
10:O:155:LEU:CD1	10:O:159:LEU:HD13	2.36	0.55
10:O:540:PHE:CD2	10:O:553:LEU:HB2	2.42	0.55
10:O:563:GLU:HA	13:R:25:LYS:HD2	1.87	0.55
10:O:614:ILE:CB	10:O:628:GLU:HA	2.36	0.55
11:P:4:PHE:CZ	12:Q:66:LYS:NZ	2.72	0.55
1:A:258:VAL:HG22	1:A:285:LEU:HD23	1.88	0.55
2:B:305:ASP:HB3	2:B:308:ILE:HG13	1.88	0.55
2:B:314:LEU:HD22	2:B:326:PHE:CB	2.37	0.55
2:B:409:LEU:HG	2:B:410:GLU:O	2.06	0.55
6:F:258:ARG:HH12	7:G:159:GLY:CA	2.01	0.55
7:G:55:LEU:HD21	7:G:63:TYR:HD2	1.72	0.55
8:H:34:PRO:HA	8:H:37:TYR:CD2	2.42	0.55
8:H:77:VAL:O	8:H:81:ILE:HG13	2.06	0.55
9:N:101:MSE:HG2	9:N:103:ILE:CG2	2.36	0.55
9:N:127:LYS:HB3	9:N:138:PRO:CB	2.37	0.55
10:O:45:LEU:O	10:O:57:LEU:HD22	2.07	0.55
11:P:24:VAL:HG11	11:P:51:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:LEU:HB3	1:A:87:TYR:CE2	2.41	0.55
1:A:373:LYS:HE3	1:A:376:SER:HB2	1.89	0.55
2:B:10:CYS:N	2:B:70:LYS:HE2	2.21	0.55
2:B:150:LYS:HD3	2:B:154:LYS:HZ2	1.71	0.55
2:B:325:GLU:O	2:B:329:ILE:HD12	2.07	0.55
2:B:399:HIS:H	2:B:411:LEU:HD12	1.72	0.55
3:C:49:LEU:HG	3:C:50:ASP:H	1.72	0.55
3:C:202:LEU:HD12	3:C:227:TYR:CD1	2.41	0.55
3:C:320:GLN:HE22	3:C:331:PRO:HG3	1.72	0.55
4:D:194:VAL:O	4:D:198:ARG:N	2.35	0.55
5:E:147:LEU:CD2	5:E:151:ASP:HB3	2.36	0.55
6:F:275:PHE:HA	6:F:278:ASP:OD2	2.07	0.55
7:G:100:THR:O	7:G:104:LEU:HG	2.07	0.55
9:N:126:ILE:CD1	9:N:156:ALA:HB2	2.36	0.55
9:N:129:ARG:HA	9:N:132:GLU:OE2	2.06	0.55
10:O:10:PHE:CD2	10:O:60:GLU:HG2	2.41	0.55
10:O:567:ASN:OD1	13:R:22:PHE:HA	2.05	0.55
10:O:644:PHE:CZ	10:O:650:LYS:HA	2.42	0.55
1:A:362:VAL:CA	1:A:365:ILE:HD12	2.36	0.55
2:B:63:GLU:HA	2:B:69:PHE:CE2	2.41	0.55
2:B:116:LEU:HD23	2:B:128:LEU:CD1	2.27	0.55
2:B:295:ASP:OD1	2:B:300:LYS:HD2	2.07	0.55
2:B:431:LEU:HD13	6:F:292:LEU:CD2	2.24	0.55
4:D:386:GLU:O	4:D:390:GLN:HG3	2.07	0.55
5:E:119:ALA:O	5:E:122:GLU:HB3	2.07	0.55
5:E:246:TRP:CA	6:F:224:GLN:HA	2.34	0.55
6:F:54:HIS:CD2	6:F:58:MET:HG2	2.42	0.55
6:F:55:TRP:HD1	6:F:127:THR:HG1	1.55	0.55
6:F:135:ASP:HB3	6:F:151:PHE:CZ	2.42	0.55
7:G:18:LEU:HD13	7:G:33:GLN:NE2	2.21	0.55
10:O:10:PHE:CZ	10:O:59:THR:CB	2.84	0.55
10:O:140:GLY:O	10:O:143:ALA:HB3	2.05	0.55
10:O:235:TYR:CD2	10:O:278:LEU:HD21	2.42	0.55
10:O:438:MET:O	10:O:442:ARG:HG3	2.06	0.55
10:O:535:LYS:HA	10:O:538:GLN:HE21	1.71	0.55
10:O:557:HIS:HB3	10:O:579:THR:CG2	2.37	0.55
10:O:562:GLY:CA	10:O:577:VAL:HG22	2.36	0.55
10:O:564:VAL:CG1	13:R:22:PHE:CD1	2.87	0.55
10:O:693:VAL:HG22	10:O:694:LEU:HA	1.88	0.55
11:P:8:ARG:C	11:P:77:LEU:HB3	2.27	0.55
11:P:100:PRO:O	11:P:104:LYS:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:79:PHE:O	13:R:84:ILE:HB	2.07	0.55
1:A:148:ALA:HB3	1:A:149:PRO:HD3	1.89	0.55
1:A:495:VAL:CG2	1:A:500:ILE:HB	2.35	0.55
2:B:306:PRO:HA	2:B:309:LEU:CD2	2.36	0.55
3:C:164:VAL:HG12	3:C:166:MET:N	2.21	0.55
3:C:382:LYS:HD2	3:C:383:CYS:N	2.21	0.55
4:D:260:ALA:HB2	4:D:263:ILE:HD12	1.87	0.55
5:E:31:TYR:CE1	5:E:131:GLU:HG3	2.41	0.55
5:E:62:LEU:HD21	6:F:199:GLY:HA3	1.89	0.55
5:E:149:GLY:HA2	5:E:213:ASP:OD2	2.07	0.55
6:F:73:ILE:HG22	6:F:120:GLU:O	2.07	0.55
8:H:102:VAL:O	8:H:106:MET:HG2	2.07	0.55
10:O:38:ARG:O	10:O:41:ASP:HB3	2.07	0.55
10:O:76:VAL:HB	10:O:154:PRO:HB3	1.89	0.55
10:O:340:VAL:HG22	10:O:387:ALA:CA	2.37	0.55
10:O:392:ALA:HA	10:O:395:CYS:SG	2.47	0.55
10:O:401:LYS:HA	10:O:449:MET:CE	2.37	0.55
10:O:485:ASP:O	10:O:488:ASN:HB2	2.07	0.55
11:P:38:PRO:HD3	15:P:266:HOH:O	2.06	0.55
13:R:52:LEU:CD2	13:R:60:GLN:HG2	2.32	0.55
1:A:398:VAL:HA	1:A:401:LEU:HG	1.89	0.55
1:A:403:THR:HG22	1:A:407:ASN:HD21	1.72	0.55
2:B:28:PRO:C	2:B:31:ASP:CG	2.66	0.55
2:B:76:ILE:HG22	2:B:80:PHE:CE1	2.41	0.55
2:B:210:ASN:CB	2:B:213:LYS:HE2	2.25	0.55
2:B:369:ILE:HB	2:B:374:ILE:HD11	1.89	0.55
3:C:15:LEU:O	3:C:18:GLN:HB2	2.07	0.55
3:C:352:ASN:HB2	8:H:126:THR:CG2	2.37	0.55
4:D:110:LEU:HA	4:D:113:ILE:HD12	1.89	0.55
5:E:32:ASP:O	5:E:36:GLN:HG2	2.06	0.55
5:E:166:VAL:HG13	5:E:168:VAL:HG23	1.88	0.55
6:F:69:ILE:HD13	6:F:100:ILE:HG12	1.88	0.55
6:F:255:GLU:OE2	6:F:258:ARG:CZ	2.55	0.55
7:G:112:PRO:CA	7:G:151:LEU:HD23	2.37	0.55
7:G:165:LYS:HD3	7:G:167:LEU:HD22	1.88	0.55
8:H:148:ILE:O	8:H:153:TRP:N	2.38	0.55
9:N:141:GLN:HA	9:N:169:LEU:HA	1.89	0.55
10:O:7:VAL:CG2	10:O:52:PRO:CB	2.85	0.55
10:O:88:HIS:NE2	10:O:92:GLU:OE1	2.40	0.55
10:O:188:PHE:CD2	10:O:207:PHE:CD1	2.94	0.55
10:O:399:LEU:HD13	10:O:454:GLU:OE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:696:HIS:HB3	10:O:739:ASP:CG	2.27	0.55
10:O:701:GLN:O	10:O:704:ILE:HB	2.07	0.55
11:P:29:ARG:HB3	15:P:320:HOH:O	2.06	0.55
11:P:51:LEU:HA	15:P:239:HOH:O	2.07	0.55
11:P:93:PHE:HB3	12:Q:51:SER:CB	2.32	0.55
13:R:91:ARG:HG2	13:R:93:VAL:HG23	1.88	0.55
1:A:320:LEU:HD11	1:A:324:ASN:CG	2.28	0.54
1:A:469:SER:O	1:A:472:PHE:HB2	2.07	0.54
1:A:482:PHE:HE2	6:F:295:ILE:HD13	1.72	0.54
2:B:52:SER:O	2:B:56:LYS:HD3	2.06	0.54
3:C:85:ILE:CG1	3:C:124:LEU:HA	2.36	0.54
3:C:111:LEU:CD1	3:C:112:VAL:HG23	2.32	0.54
3:C:294:LEU:O	3:C:297:GLN:HB2	2.06	0.54
4:D:390:GLN:O	4:D:393:PRO:HD3	2.07	0.54
5:E:37:GLN:HG2	5:E:40:LEU:HD12	1.90	0.54
5:E:246:TRP:HE3	6:F:228:ILE:HG13	1.45	0.54
5:E:315:ILE:CD1	6:F:290:ALA:HB2	2.37	0.54
6:F:58:MET:HG3	6:F:68:VAL:HG12	1.89	0.54
6:F:137:HIS:O	6:F:141:GLN:HG3	2.07	0.54
10:O:16:LYS:HD3	10:O:38:ARG:CA	2.36	0.54
10:O:46:CYS:SG	10:O:57:LEU:HD23	2.32	0.54
10:O:309:PRO:HA	10:O:312:ILE:HD12	1.88	0.54
10:O:342:SER:O	10:O:345:GLU:HB3	2.06	0.54
10:O:699:LEU:HD13	10:O:699:LEU:C	2.27	0.54
11:P:3:VAL:HG12	11:P:63:THR:C	2.27	0.54
11:P:96:PRO:HB2	11:P:97:PRO:HD2	1.88	0.54
2:B:323:ILE:HG12	2:B:354:ILE:CD1	2.37	0.54
3:C:85:ILE:CD1	3:C:127:ALA:HB3	2.33	0.54
3:C:155:PHE:O	3:C:159:LEU:HG	2.06	0.54
3:C:222:GLU:HA	3:C:225:LYS:CE	2.36	0.54
5:E:64:LYS:HG2	5:E:68:HIS:HB2	1.89	0.54
5:E:238:LEU:HD22	6:F:200:VAL:HG22	1.89	0.54
5:E:315:ILE:HD11	6:F:290:ALA:HB2	1.89	0.54
6:F:255:GLU:OE1	7:G:162:ILE:CD1	2.55	0.54
7:G:102:VAL:CG2	7:G:160:ARG:HD3	2.37	0.54
8:H:34:PRO:HG3	8:H:64:ILE:HG12	1.89	0.54
8:H:111:ASP:HA	8:H:114:ARG:NH1	2.22	0.54
11:P:44:LEU:HD22	11:P:75:VAL:CG1	2.38	0.54
1:A:142:THR:O	1:A:145:LEU:HB3	2.07	0.54
1:A:284:LYS:CE	1:A:319:LEU:HD12	2.38	0.54
2:B:146:ARG:HE	2:B:229:PRO:HD3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:399:HIS:O	2:B:411:LEU:HD13	2.08	0.54
5:E:237:LEU:HD23	6:F:163:LEU:HD11	1.89	0.54
6:F:55:TRP:CZ2	6:F:59:ARG:HD2	2.42	0.54
6:F:292:LEU:O	6:F:295:ILE:CB	2.43	0.54
7:G:136:VAL:HA	7:G:141:ILE:HB	1.89	0.54
7:G:152:LEU:O	7:G:154:VAL:HG23	2.06	0.54
8:H:54:ARG:O	8:H:57:TRP:HB3	2.06	0.54
10:O:458:ILE:HG23	10:O:470:THR:CG2	2.37	0.54
10:O:620:VAL:HG13	10:O:644:PHE:HA	1.89	0.54
11:P:45:TYR:HB2	11:P:76:GLY:CA	2.35	0.54
11:P:70:GLN:HA	12:Q:59:GLU:CG	2.26	0.54
1:A:185:LEU:HD23	1:A:186:LYS:NZ	2.22	0.54
1:A:374:TYR:CE2	1:A:413:TYR:HB3	2.43	0.54
2:B:130:GLU:HA	2:B:133:GLU:CG	2.37	0.54
2:B:277:LEU:HD12	2:B:278:LYS:HG2	1.88	0.54
3:C:91:GLU:HG3	3:C:92:HIS:ND1	2.22	0.54
3:C:192:TYR:HB3	3:C:197:ASN:O	2.08	0.54
3:C:221:LEU:O	3:C:225:LYS:HG3	2.06	0.54
3:C:278:LEU:O	3:C:281:LYS:HB3	2.06	0.54
3:C:298:CYS:O	3:C:301:SER:OG	2.20	0.54
3:C:337:TYR:O	3:C:340:HIS:ND1	2.40	0.54
6:F:125:TYR:HA	6:F:152:LEU:O	2.08	0.54
7:G:11:LEU:HB2	7:G:15:PHE:HE2	1.72	0.54
7:G:79:ILE:O	7:G:82:LYS:HE3	2.08	0.54
7:G:97:LYS:O	7:G:120:LEU:HD11	2.08	0.54
9:N:101:MSE:O	9:N:117:ILE:N	2.27	0.54
9:N:168:HIS:HB3	10:O:690:ALA:HB1	1.89	0.54
10:O:21:ILE:HA	10:O:38:ARG:HH11	1.70	0.54
10:O:219:TYR:C	10:O:270:MET:CE	2.76	0.54
10:O:379:ARG:NE	10:O:384:VAL:CA	2.36	0.54
10:O:584:VAL:HG12	10:O:610:LEU:HD13	1.89	0.54
10:O:622:MET:HG2	10:O:650:LYS:HD2	1.89	0.54
1:A:95:MET:SD	1:A:318:GLU:HG3	2.48	0.54
1:A:198:ARG:HD3	1:A:227:TYR:O	2.08	0.54
2:B:5:GLU:O	2:B:9:MET:N	2.35	0.54
2:B:32:LEU:CD2	10:O:648:ARG:CZ	2.86	0.54
2:B:143:LYS:CE	10:O:407:THR:HG23	2.33	0.54
2:B:195:LEU:HD23	2:B:228:ILE:CD1	2.37	0.54
2:B:292:ASN:HB3	2:B:295:ASP:HB2	1.89	0.54
2:B:392:CYS:O	2:B:395:ASP:HB2	2.08	0.54
2:B:393:ILE:HA	2:B:398:ILE:HD13	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:23:GLN:O	3:C:58:VAL:N	2.40	0.54
3:C:139:THR:CG2	3:C:141:ILE:HB	2.38	0.54
5:E:77:VAL:CB	5:E:98:LEU:HB2	2.36	0.54
5:E:242:TRP:CZ2	6:F:221:LEU:O	2.61	0.54
6:F:216:THR:O	6:F:220:HIS:N	2.41	0.54
6:F:270:LEU:HA	6:F:272:THR:HG23	1.89	0.54
8:H:194:GLU:N	8:H:197:LEU:HB2	2.22	0.54
9:N:105:VAL:HG11	9:N:130:VAL:CG2	2.37	0.54
10:O:10:PHE:CE2	10:O:56:ARG:CG	2.74	0.54
10:O:22:LYS:N	10:O:68:HIS:CB	2.61	0.54
10:O:226:LEU:O	10:O:230:SER:OG	2.24	0.54
10:O:612:LYS:HE2	10:O:657:MET:SD	2.48	0.54
10:O:688:MET:HE1	10:O:730:TYR:HB2	1.89	0.54
12:Q:15:GLU:HB3	12:Q:45:GLU:CB	2.32	0.54
1:A:254:VAL:O	1:A:258:VAL:HG23	2.07	0.54
2:B:128:LEU:HA	2:B:131:PHE:CD2	2.42	0.54
3:C:150:LEU:HD13	3:C:191:ILE:CG1	2.36	0.54
3:C:279:VAL:HA	3:C:286:PHE:CE2	2.42	0.54
5:E:68:HIS:HA	5:E:71:SER:HG	1.70	0.54
5:E:79:GLY:HA3	5:E:113:ALA:HB3	1.87	0.54
5:E:139:SER:O	5:E:141:PRO:HD3	2.08	0.54
5:E:254:SER:H	5:E:321:GLN:NE2	2.06	0.54
6:F:83:VAL:CG1	6:F:152:LEU:HD12	2.37	0.54
6:F:261:TYR:CZ	7:G:106:SER:C	2.81	0.54
8:H:139:LEU:HD22	8:H:143:GLU:HG2	1.89	0.54
10:O:17:LEU:HA	10:O:41:ASP:OD2	2.08	0.54
10:O:21:ILE:CG1	10:O:38:ARG:NH1	2.71	0.54
10:O:70:ARG:HE	10:O:73:HIS:HB3	1.72	0.54
10:O:212:LEU:C	10:O:265:GLU:OE2	2.46	0.54
10:O:657:MET:HB3	10:O:659:LYS:CE	2.31	0.54
10:O:733:ARG:HG3	13:R:87:TRP:HZ3	1.73	0.54
11:P:8:ARG:N	11:P:75:VAL:O	2.32	0.54
11:P:47:ASP:N	15:P:240:HOH:O	2.38	0.54
1:A:76:ASP:H	1:A:106:HIS:HD2	1.48	0.54
1:A:247:TYR:HA	1:A:249:GLN:NE2	2.22	0.54
1:A:334:LEU:HD11	1:A:369:PHE:CE2	2.42	0.54
1:A:470:THR:HA	1:A:473:GLU:OE1	2.08	0.54
3:C:25:CYS:N	3:C:55:SER:HA	2.23	0.54
3:C:35:LEU:HA	3:C:39:LEU:CD2	2.38	0.54
4:D:384:LEU:HD11	4:D:388:ILE:HD11	1.90	0.54
4:D:386:GLU:HA	4:D:389:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:113:ALA:HB1	5:E:137:TYR:HH	1.73	0.54
5:E:115:GLU:HA	9:N:133:LYS:NZ	2.23	0.54
5:E:314:ALA:CB	6:F:289:MET:HE3	2.36	0.54
6:F:81:ILE:CG1	6:F:186:LEU:HD23	2.38	0.54
6:F:100:ILE:HG12	6:F:138:VAL:HG13	1.90	0.54
7:G:15:PHE:HA	7:G:18:LEU:HB2	1.89	0.54
7:G:75:TYR:HB3	7:G:120:LEU:CD2	2.38	0.54
7:G:92:GLN:CA	7:G:95:LYS:HD3	2.25	0.54
9:N:126:ILE:O	9:N:130:VAL:HG23	2.06	0.54
10:O:38:ARG:NH2	10:O:101:MET:SD	2.65	0.54
10:O:87:TYR:OH	10:O:151:MET:HG2	2.07	0.54
10:O:146:MET:CE	10:O:149:LYS:HD2	2.38	0.54
10:O:185:ILE:CG1	10:O:207:PHE:CD1	2.90	0.54
10:O:401:LYS:HG2	10:O:449:MET:HG3	1.90	0.54
10:O:551:ARG:HG3	13:R:34:ALA:CA	2.33	0.54
10:O:561:THR:HB	10:O:576:MET:SD	2.48	0.54
10:O:732:GLU:CG	10:O:733:ARG:H	2.20	0.54
11:P:37:ARG:HA	15:P:215:HOH:O	2.07	0.54
12:Q:6:VAL:CA	12:Q:41:LYS:HZ3	1.95	0.54
1:A:337:PHE:HB2	1:A:342:LEU:HB2	1.89	0.54
1:A:353:LYS:CA	1:A:356:LEU:HB2	2.34	0.54
3:C:192:TYR:HB2	3:C:201:ALA:CB	2.34	0.54
5:E:64:LYS:CG	5:E:68:HIS:HB2	2.38	0.54
5:E:102:GLY:C	5:E:106:ARG:HG3	2.28	0.54
5:E:127:VAL:HG12	6:F:90:LEU:HD13	1.90	0.54
6:F:242:VAL:CG1	7:G:171:ALA:HB1	2.38	0.54
7:G:52:VAL:O	7:G:55:LEU:HB3	2.07	0.54
7:G:185:LEU:HD23	7:G:188:ILE:CD1	2.37	0.54
10:O:54:GLY:O	10:O:57:LEU:HB3	2.08	0.54
11:P:11:LYS:HG3	11:P:91:GLU:HG3	1.90	0.54
1:A:401:LEU:HD12	1:A:402:TYR:N	2.23	0.54
2:B:31:ASP:CG	10:O:648:ARG:HH11	2.03	0.54
2:B:323:ILE:HA	2:B:326:PHE:CZ	2.43	0.54
2:B:371:ILE:HD11	2:B:409:LEU:CB	2.37	0.54
2:B:427:TRP:CG	5:E:266:VAL:HG13	2.38	0.54
3:C:70:SER:HB2	3:C:106:GLN:CD	2.29	0.54
3:C:82:GLN:HE21	3:C:123:ILE:HG13	1.71	0.54
3:C:237:LYS:HA	3:C:267:TYR:HE2	1.73	0.54
3:C:253:ILE:HA	3:C:256:LEU:CB	2.37	0.54
4:D:231:HIS:HE1	4:D:285:LEU:HD23	1.73	0.54
4:D:313:SER:OG	4:D:314:LYS:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:189:TYR:OH	5:E:198:GLU:O	2.26	0.54
5:E:240:LEU:CB	6:F:163:LEU:HD13	2.35	0.54
5:E:325:ASP:OD1	6:F:275:PHE:CZ	2.55	0.54
6:F:131:PRO:CA	6:F:153:LYS:HE3	2.38	0.54
7:G:88:LEU:HD13	7:G:96:LEU:HD13	1.90	0.54
7:G:103:SER:O	7:G:107:ARG:HG2	2.08	0.54
9:N:122:LYS:O	9:N:126:ILE:HG13	2.08	0.54
10:O:117:LYS:CG	10:O:120:GLU:HG2	2.35	0.54
10:O:339:PHE:HD2	10:O:387:ALA:HA	1.70	0.54
10:O:693:VAL:HG12	10:O:699:LEU:HB2	1.90	0.54
10:O:695:ARG:HD3	10:O:740:GLU:CA	2.38	0.54
11:P:35:LEU:HD11	12:Q:17:GLU:OE2	2.07	0.54
11:P:64:SER:HB2	11:P:68:ARG:NH2	2.23	0.54
11:P:67:ALA:HB2	11:P:73:ALA:HB2	1.90	0.54
1:A:127:ASN:ND2	1:A:212:GLY:O	2.41	0.54
1:A:245:SER:CA	1:A:248:LEU:HB3	2.20	0.54
1:A:258:VAL:CG1	1:A:285:LEU:HB3	2.35	0.54
2:B:73:LYS:HA	2:B:76:ILE:HG13	1.88	0.54
2:B:359:LEU:CD1	2:B:362:LEU:HD23	2.38	0.54
3:C:43:ASP:OD1	3:C:77:LEU:HA	2.07	0.54
3:C:153:LYS:HE2	8:H:58:LYS:CB	2.38	0.54
3:C:159:LEU:O	3:C:162:LEU:HG	2.08	0.54
3:C:179:LYS:HA	3:C:182:LEU:HB2	1.90	0.54
4:D:124:ALA:O	4:D:128:VAL:HG23	2.08	0.54
4:D:373:GLN:HA	4:D:376:SER:CB	2.38	0.54
5:E:315:ILE:HB	8:H:207:LEU:CD1	2.37	0.54
5:E:332:ASN:HA	6:F:268:PRO:HD3	1.88	0.54
6:F:43:LEU:HD13	6:F:84:MET:HB3	1.90	0.54
6:F:106:TYR:HA	6:F:109:GLU:CD	2.28	0.54
6:F:215:SER:N	8:H:208:GLU:OE2	2.41	0.54
9:N:136:ILE:HG22	9:N:141:GLN:HE21	1.73	0.54
10:O:382:LYS:HE2	10:O:382:LYS:HA	1.89	0.54
10:O:419:ILE:O	10:O:422:PHE:HB3	2.08	0.54
10:O:439:LEU:HD22	10:O:473:LEU:HD11	1.90	0.54
10:O:657:MET:CA	10:O:657:MET:CE	2.86	0.54
10:O:733:ARG:HG3	13:R:87:TRP:CZ3	2.42	0.54
13:R:50:MET:HA	13:R:65:SER:C	2.28	0.54
1:A:193:ILE:O	1:A:197:ILE:HG13	2.08	0.53
1:A:327:ILE:CD1	1:A:359:GLU:HG3	2.38	0.53
1:A:398:VAL:HA	1:A:401:LEU:CG	2.37	0.53
1:A:491:LEU:HD21	3:C:165:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:292:ASN:CA	2:B:295:ASP:HB2	2.38	0.53
2:B:310:ALA:O	2:B:314:LEU:HG	2.08	0.53
2:B:311:MET:SD	2:B:333:ASN:ND2	2.81	0.53
2:B:367:THR:C	2:B:411:LEU:HB2	2.29	0.53
3:C:22:THR:HA	3:C:54:HIS:HA	1.89	0.53
3:C:199:GLU:CD	3:C:234:LEU:HD21	2.29	0.53
5:E:55:CYS:CB	5:E:226:VAL:HG22	2.33	0.53
5:E:234:ASP:CB	6:F:49:LEU:HD22	2.38	0.53
6:F:30:VAL:O	6:F:136:ILE:HD13	2.07	0.53
6:F:48:ILE:HD11	6:F:190:LEU:HD22	1.90	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CE3	2.43	0.53
6:F:72:LEU:HD23	6:F:86:SER:HB3	1.90	0.53
7:G:70:PHE:CD1	7:G:99:LEU:HD11	2.42	0.53
7:G:71:ALA:HB1	7:G:164:LYS:N	2.23	0.53
7:G:113:TYR:N	7:G:150:GLN:O	2.37	0.53
7:G:171:ALA:HA	7:G:174:LEU:HD12	1.90	0.53
10:O:16:LYS:HZ2	10:O:39:PHE:C	2.11	0.53
10:O:184:VAL:O	10:O:187:SER:HB3	2.07	0.53
10:O:185:ILE:C	10:O:255:HIS:ND1	2.60	0.53
10:O:193:GLN:HG3	10:O:195:LYS:H	1.72	0.53
11:P:56:THR:HG21	15:P:302:HOH:O	2.06	0.53
1:A:236:ASN:O	1:A:239:LEU:HD23	2.07	0.53
1:A:379:LYS:O	1:A:383:GLU:HG3	2.07	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CG	2.39	0.53
2:B:297:GLN:HE22	13:R:70:VAL:CB	2.20	0.53
2:B:391:GLN:O	2:B:394:LEU:HB3	2.08	0.53
2:B:418:GLY:O	2:B:422:THR:HG23	2.08	0.53
3:C:159:LEU:HA	3:C:162:LEU:CD2	2.38	0.53
3:C:190:MET:HG2	3:C:226:LYS:CD	2.38	0.53
3:C:190:MET:CE	3:C:226:LYS:HE2	2.38	0.53
3:C:253:ILE:CG1	3:C:256:LEU:HD12	2.38	0.53
3:C:352:ASN:HA	8:H:127:SER:H	1.73	0.53
4:D:73:LEU:HD23	4:D:76:LEU:HD12	1.89	0.53
5:E:28:ILE:HD13	5:E:229:PHE:HB3	1.90	0.53
5:E:31:TYR:CZ	5:E:131:GLU:HA	2.43	0.53
5:E:74:ASN:CA	5:E:141:PRO:HB2	2.38	0.53
6:F:69:ILE:O	6:F:89:LEU:HB2	2.08	0.53
6:F:72:LEU:HD21	6:F:152:LEU:HB3	1.89	0.53
7:G:41:TYR:HB3	7:G:70:PHE:HB3	1.89	0.53
9:N:141:GLN:HG2	9:N:169:LEU:HD13	1.64	0.53
10:O:503:LEU:HD21	13:R:24:VAL:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:727:ASP:CB	13:R:46:ARG:CB	2.46	0.53
12:Q:75:ASP:N	15:Q:106:HOH:O	2.40	0.53
13:R:82:HIS:CA	13:R:85:SER:HB2	2.34	0.53
1:A:352:PHE:HB3	1:A:356:LEU:CD1	2.38	0.53
2:B:79:ASN:HD21	2:B:87:GLU:HG3	1.73	0.53
2:B:128:LEU:HD23	2:B:158:LEU:HD21	1.89	0.53
2:B:156:GLY:HA3	2:B:200:LEU:CD1	2.39	0.53
2:B:157:LYS:HA	2:B:160:LEU:CG	2.36	0.53
2:B:175:LEU:O	2:B:178:SER:OG	2.20	0.53
3:C:138:LEU:CD2	3:C:166:MET:HG3	2.37	0.53
3:C:218:HIS:HA	3:C:221:LEU:CG	2.38	0.53
3:C:224:TYR:CE2	3:C:257:SER:HB3	2.43	0.53
4:D:403:GLN:NE2	6:F:233:SER:HA	2.23	0.53
5:E:124:ALA:HB1	5:E:129:ARG:HB2	1.90	0.53
5:E:148:SER:N	5:E:151:ASP:HB2	2.23	0.53
6:F:69:ILE:HA	6:F:124:TRP:HE3	1.72	0.53
6:F:72:LEU:CA	6:F:86:SER:HB3	2.31	0.53
6:F:272:THR:HG21	6:F:274:LYS:HE2	1.90	0.53
7:G:179:VAL:O	7:G:183:VAL:HG13	2.08	0.53
8:H:154:GLN:HB3	8:H:163:LEU:CD1	2.38	0.53
10:O:80:GLU:O	10:O:82:GLN:N	2.40	0.53
10:O:282:CYS:SG	10:O:308:LEU:O	2.66	0.53
10:O:614:ILE:CG2	10:O:628:GLU:HA	2.38	0.53
11:P:98:GLU:HB3	15:P:316:HOH:O	2.07	0.53
1:A:260:LYS:HA	1:A:264:THR:CB	2.39	0.53
1:A:320:LEU:CD2	1:A:325:VAL:HA	2.38	0.53
1:A:337:PHE:CG	1:A:342:LEU:HD22	2.44	0.53
2:B:209:LYS:HE2	2:B:209:LYS:HA	1.90	0.53
2:B:306:PRO:HA	2:B:309:LEU:CG	2.38	0.53
2:B:371:ILE:HB	2:B:372:PRO:HD3	1.90	0.53
3:C:221:LEU:HA	3:C:224:TYR:HD1	1.71	0.53
4:D:363:THR:N	4:D:365:GLU:HB3	2.23	0.53
5:E:113:ALA:HB1	5:E:137:TYR:OH	2.09	0.53
6:F:31:MET:HE1	6:F:136:ILE:HG12	1.89	0.53
6:F:43:LEU:CD1	6:F:85:ASN:HB2	2.38	0.53
6:F:202:HIS:CE1	6:F:206:MET:HA	2.43	0.53
6:F:275:PHE:CE2	6:F:279:PHE:HB2	2.43	0.53
7:G:7:PRO:HG2	7:G:11:LEU:HD22	1.89	0.53
7:G:23:SER:H	7:G:26:ALA:HB3	1.72	0.53
8:H:32:ALA:HB3	8:H:37:TYR:CE1	2.44	0.53
8:H:40:LEU:CD2	8:H:43:LEU:HD12	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:155:THR:HB	9:N:158:ASP:CG	2.29	0.53
10:O:89:ARG:HG2	10:O:93:GLU:HG3	1.91	0.53
10:O:121:ALA:O	10:O:129:GLY:N	2.41	0.53
10:O:480:MET:HB3	10:O:510:TYR:CD1	2.42	0.53
10:O:506:SER:HB3	13:R:29:ALA:N	2.22	0.53
10:O:569:LEU:HD13	10:O:571:LYS:HE2	1.89	0.53
12:Q:86:MET:HE1	12:Q:91:LEU:H	1.73	0.53
13:R:49:ILE:CG1	13:R:69:THR:H	2.20	0.53
13:R:59:ASN:HB3	13:R:81:PHE:CD2	2.44	0.53
1:A:74:GLU:CB	1:A:106:HIS:HE1	2.11	0.53
1:A:79:ASN:CB	1:A:390:LEU:HD11	2.39	0.53
1:A:205:GLY:HA2	1:A:217:ALA:CB	2.38	0.53
1:A:277:GLN:HG2	1:A:279:GLN:O	2.08	0.53
1:A:471:THR:O	1:A:475:SER:OG	2.11	0.53
2:B:37:TYR:HB2	2:B:57:VAL:CG2	2.39	0.53
2:B:37:TYR:CD1	2:B:53:SER:HA	2.43	0.53
2:B:149:PHE:CZ	2:B:193:GLN:HA	2.43	0.53
3:C:48:ALA:O	3:C:87:THR:HB	2.09	0.53
3:C:93:ILE:C	3:C:131:MET:HG3	2.29	0.53
4:D:42:LEU:HD11	4:D:84:ILE:HD11	1.91	0.53
5:E:77:VAL:HG12	5:E:100:VAL:CG2	2.34	0.53
5:E:86:ASP:CB	5:E:91:ILE:HD11	2.38	0.53
5:E:326:LYS:CG	8:H:196:GLN:HG2	2.24	0.53
6:F:288:LEU:O	6:F:292:LEU:HG	2.08	0.53
7:G:7:PRO:HG2	7:G:11:LEU:HD13	1.90	0.53
7:G:16:ILE:HG22	7:G:17:LEU:HD22	1.90	0.53
7:G:31:ILE:HD12	7:G:60:ASN:ND2	2.23	0.53
8:H:17:LEU:HD13	8:H:43:LEU:C	2.29	0.53
8:H:46:LEU:CD2	8:H:109:LEU:HB2	2.38	0.53
8:H:117:ALA:HB1	8:H:133:PHE:HE1	1.72	0.53
10:O:279:HIS:O	10:O:310:HIS:HB3	2.03	0.53
10:O:279:HIS:CA	10:O:307:GLY:HA2	2.38	0.53
10:O:393:LYS:HA	10:O:396:ASP:OD2	2.08	0.53
10:O:564:VAL:HG12	13:R:22:PHE:CD2	2.41	0.53
10:O:643:ASN:OD1	10:O:644:PHE:N	2.39	0.53
11:P:9:ARG:HG3	11:P:79:PHE:CE2	2.44	0.53
11:P:19:LYS:HD3	15:P:321:HOH:O	2.07	0.53
11:P:23:THR:HA	11:P:56:THR:HA	1.90	0.53
1:A:344:ARG:O	1:A:348:SER:OG	2.19	0.53
2:B:175:LEU:HD13	2:B:193:GLN:HB3	1.91	0.53
2:B:192:THR:CG2	10:O:474:HIS:NE2	2.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:253:LYS:HE2	2:B:253:LYS:HA	1.91	0.53
2:B:292:ASN:CB	2:B:295:ASP:HB2	2.37	0.53
2:B:414:GLN:C	2:B:415:LYS:HA	2.28	0.53
2:B:436:GLN:HA	2:B:439:VAL:CG2	2.39	0.53
2:B:436:GLN:O	2:B:439:VAL:HB	2.08	0.53
3:C:233:ILE:HA	3:C:301:SER:CB	2.38	0.53
4:D:50:GLU:O	4:D:53:VAL:HG22	2.08	0.53
4:D:367:LEU:HB2	4:D:368:PRO:HD3	1.89	0.53
4:D:403:GLN:HA	4:D:406:GLN:HG2	1.91	0.53
6:F:45:PRO:HD3	6:F:196:GLU:CG	2.33	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CZ3	2.44	0.53
7:G:7:PRO:HD3	7:G:40:VAL:H	1.73	0.53
8:H:61:PRO:HG2	8:H:64:ILE:HD12	1.90	0.53
10:O:45:LEU:C	10:O:57:LEU:HD22	2.28	0.53
10:O:48:ALA:O	10:O:49:TYR:C	2.46	0.53
10:O:331:THR:HG22	10:O:331:THR:O	2.09	0.53
10:O:504:GLY:HA3	13:R:26:LYS:C	2.01	0.53
10:O:626:ASP:CB	10:O:636:SER:HA	2.38	0.53
10:O:681:GLN:CD	10:O:728:LYS:HZ1	2.11	0.53
11:P:43:ARG:HB3	11:P:50:LEU:HD23	1.91	0.53
1:A:197:ILE:HG21	1:A:227:TYR:CZ	2.43	0.53
1:A:441:THR:O	1:A:444:ILE:HB	2.09	0.53
2:B:76:ILE:HG23	2:B:88:MET:HG2	1.89	0.53
2:B:150:LYS:HD3	2:B:154:LYS:NZ	2.23	0.53
2:B:153:THR:HG23	2:B:196:GLU:CD	2.29	0.53
2:B:194:LEU:HD23	2:B:224:ILE:CG1	2.39	0.53
2:B:212:LYS:HE2	2:B:215:LYS:NZ	2.22	0.53
2:B:435:ASN:OD1	2:B:436:GLN:HG3	2.09	0.53
3:C:93:ILE:HG12	3:C:130:LYS:NZ	2.24	0.53
3:C:206:GLU:HG2	3:C:227:TYR:CE1	2.43	0.53
3:C:276:ARG:NE	3:C:277:ASN:OD1	2.42	0.53
3:C:373:LEU:O	3:C:376:ILE:HG13	2.08	0.53
4:D:379:PHE:HZ	6:F:80:ASN:HD21	1.55	0.53
5:E:209:ASN:CG	5:E:210:LYS:HG2	2.29	0.53
6:F:235:VAL:CA	6:F:238:ILE:HD12	2.34	0.53
7:G:56:ALA:CB	7:G:64:LEU:HD22	2.31	0.53
8:H:41:LEU:HD23	8:H:74:ILE:HB	1.91	0.53
8:H:76:SER:O	8:H:79:GLN:HB2	2.08	0.53
8:H:114:ARG:HG3	8:H:137:VAL:HB	1.91	0.53
10:O:35:TRP:CB	10:O:104:LEU:HD11	2.16	0.53
10:O:227:LEU:HD11	10:O:232:CYS:SG	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:333:GLU:HG3	10:O:338:LEU:HD11	1.91	0.53
1:A:101:GLN:HA	1:A:115:LEU:CD2	2.39	0.53
1:A:376:SER:O	1:A:379:LYS:HB3	2.09	0.53
2:B:90:ASN:O	2:B:94:GLN:HG3	2.08	0.53
3:C:82:GLN:HG3	3:C:124:LEU:HD12	1.90	0.53
3:C:85:ILE:HD12	3:C:124:LEU:O	2.08	0.53
3:C:308:GLN:HA	3:C:311:THR:CG2	2.39	0.53
5:E:36:GLN:CD	5:E:84:LYS:HD2	2.29	0.53
5:E:173:THR:HA	5:E:176:ILE:CD1	2.35	0.53
5:E:246:TRP:HB3	6:F:227:ALA:N	2.24	0.53
5:E:304:THR:CB	6:F:300:ASN:CG	2.77	0.53
6:F:32:ALA:HB1	6:F:181:MET:O	2.09	0.53
7:G:97:LYS:HA	7:G:120:LEU:CD2	2.39	0.53
7:G:101:ILE:CG1	7:G:116:LEU:HG	2.37	0.53
7:G:142:GLN:HG2	7:G:155:ASP:HB2	1.90	0.53
8:H:61:PRO:CD	8:H:64:ILE:HD12	2.38	0.53
9:N:101:MSE:HE1	9:N:157:ALA:HB2	1.89	0.53
9:N:134:GLU:OE2	9:N:176:GLY:CA	2.57	0.53
10:O:58:TYR:CD2	10:O:136:LEU:HD23	2.43	0.53
10:O:81:GLU:CG	10:O:84:LEU:HD22	2.26	0.53
10:O:198:PHE:CD2	10:O:201:LYS:HD3	2.44	0.53
10:O:347:HIS:CD2	10:O:420:THR:CG2	2.91	0.53
10:O:439:LEU:HB2	10:O:442:ARG:NH2	2.24	0.53
10:O:462:LYS:HE3	10:O:467:TYR:HB3	1.90	0.53
11:P:4:PHE:O	11:P:73:ALA:N	2.41	0.53
13:R:86:ARG:O	13:R:89:LYS:HB2	2.09	0.53
1:A:209:LEU:HA	1:A:214:LEU:HD21	1.91	0.53
1:A:369:PHE:O	1:A:412:GLN:NE2	2.24	0.53
1:A:404:GLN:O	1:A:408:ARG:HD3	2.07	0.53
1:A:502:VAL:HG12	3:C:215:ALA:H	1.73	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CD2	2.39	0.53
3:C:132:GLN:HB2	3:C:137:GLN:N	2.23	0.53
3:C:259:ALA:HA	3:C:262:GLU:HG3	1.91	0.53
5:E:77:VAL:HB	5:E:98:LEU:H	1.73	0.53
5:E:80:LEU:HG	5:E:117:MET:CE	2.39	0.53
5:E:311:THR:HG22	5:E:315:ILE:CD1	2.39	0.53
5:E:333:ILE:CG1	6:F:267:LEU:HB2	2.39	0.53
6:F:68:VAL:O	6:F:126:THR:HA	2.09	0.53
6:F:72:LEU:O	6:F:122:LEU:N	2.41	0.53
6:F:117:LYS:HZ2	9:N:137:PRO:HG2	1.61	0.53
7:G:7:PRO:CB	7:G:38:PRO:HD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:97:LYS:HA	7:G:120:LEU:HD21	1.91	0.53
9:N:138:PRO:HA	9:N:141:GLN:CG	2.39	0.53
10:O:26:MET:O	10:O:93:GLU:HG2	2.09	0.53
10:O:340:VAL:HG12	10:O:344:LEU:HD12	1.91	0.53
10:O:692:LYS:HB3	10:O:743:TYR:HB2	1.90	0.53
11:P:3:VAL:O	11:P:5:LEU:HG	2.08	0.53
1:A:175:LEU:HD11	15:A:605:HOH:O	2.09	0.53
1:A:193:ILE:HB	1:A:196:SER:OG	2.09	0.53
1:A:270:GLN:HB3	1:A:271:ARG:HH11	1.74	0.53
1:A:284:LYS:HE3	1:A:319:LEU:HD12	1.91	0.53
2:B:87:GLU:O	2:B:91:ARG:HG2	2.08	0.53
2:B:165:TYR:CE2	2:B:204:MET:HB2	2.44	0.53
2:B:390:VAL:HA	2:B:393:ILE:CD1	2.39	0.53
2:B:431:LEU:HD23	2:B:434:LEU:CD2	2.38	0.53
3:C:237:LYS:HD2	3:C:267:TYR:CE2	2.44	0.53
3:C:259:ALA:HA	3:C:262:GLU:CG	2.39	0.53
5:E:64:LYS:HD2	6:F:116:PHE:CE1	2.44	0.53
5:E:158:ASN:CA	5:E:161:PHE:HB2	2.31	0.53
7:G:74:THR:HB	7:G:76:PRO:HD2	1.91	0.53
9:N:134:GLU:OE2	9:N:175:GLY:O	2.26	0.53
10:O:478:THR:O	10:O:481:SER:HB2	2.09	0.53
1:A:381:LEU:O	1:A:384:MET:HE3	2.08	0.52
3:C:13:ARG:NH2	3:C:44:THR:HB	2.24	0.52
3:C:182:LEU:O	3:C:186:TYR:HB2	2.09	0.52
3:C:189:GLY:CA	3:C:201:ALA:HB1	2.22	0.52
3:C:403:PHE:CE1	6:F:312:LEU:HD23	2.44	0.52
4:D:153:ARG:NH2	4:D:186:HIS:O	2.42	0.52
4:D:255:CYS:O	4:D:258:LEU:N	2.42	0.52
5:E:70:ARG:HG2	6:F:193:GLU:OE2	2.09	0.52
6:F:107:THR:O	6:F:111:GLN:HG3	2.09	0.52
8:H:199:ARG:HB3	8:H:203:TYR:OH	2.09	0.52
10:O:398:LEU:HD23	10:O:404:LYS:HB3	1.91	0.52
10:O:614:ILE:HG21	10:O:627:SER:O	2.10	0.52
10:O:712:ASN:H	10:O:712:ASN:ND2	2.06	0.52
1:A:316:PHE:CE2	1:A:318:GLU:HB2	2.44	0.52
1:A:353:LYS:O	1:A:356:LEU:HB2	2.09	0.52
1:A:450:SER:H	1:A:463:ARG:HG2	1.74	0.52
2:B:165:TYR:HA	2:B:168:LEU:CB	2.29	0.52
2:B:390:VAL:HA	2:B:393:ILE:CG1	2.40	0.52
2:B:393:ILE:CA	2:B:398:ILE:HD13	2.39	0.52
3:C:23:GLN:HA	3:C:57:GLY:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:80:GLN:O	3:C:83:LEU:HB2	2.09	0.52
3:C:122:GLY:HA2	3:C:125:LYS:NZ	2.23	0.52
3:C:218:HIS:ND1	3:C:221:LEU:HD12	2.24	0.52
3:C:316:THR:HG1	3:C:359:SER:HA	1.74	0.52
3:C:351:ILE:O	8:H:126:THR:N	2.36	0.52
4:D:255:CYS:SG	4:D:258:LEU:HD12	2.48	0.52
5:E:31:TYR:CD1	5:E:36:GLN:HG3	2.45	0.52
7:G:208:GLN:O	7:G:212:GLU:HG2	2.10	0.52
9:N:169:LEU:C	10:O:691:ARG:HB3	2.21	0.52
10:O:385:CYS:O	10:O:389:GLU:HG3	2.09	0.52
10:O:489:LYS:O	10:O:493:PHE:N	2.28	0.52
10:O:611:THR:OG1	10:O:615:LYS:HE2	2.09	0.52
10:O:688:MET:SD	10:O:725:LEU:HB2	2.49	0.52
11:P:63:THR:HG22	15:P:246:HOH:O	2.09	0.52
1:A:101:GLN:NE2	1:A:134:ILE:HD11	2.25	0.52
1:A:273:GLU:HG3	1:A:282:LEU:HD11	1.92	0.52
2:B:92:TYR:HA	2:B:95:LEU:HD12	1.90	0.52
2:B:105:ARG:CG	10:O:401:LYS:HZ3	2.20	0.52
2:B:297:GLN:HE22	13:R:70:VAL:CA	2.23	0.52
2:B:326:PHE:HZ	2:B:354:ILE:HD13	1.75	0.52
2:B:333:ASN:OD1	2:B:337:ILE:HG13	2.09	0.52
3:C:137:GLN:HG2	3:C:168:ASP:HB3	1.91	0.52
3:C:139:THR:HG23	3:C:141:ILE:HB	1.91	0.52
4:D:370:TRP:CZ3	6:F:275:PHE:CZ	2.92	0.52
5:E:51:TYR:CE1	5:E:88:GLU:HG2	2.44	0.52
5:E:111:ALA:HB1	9:N:121:ASP:OD2	2.08	0.52
5:E:124:ALA:HB1	5:E:129:ARG:CB	2.39	0.52
5:E:151:ASP:O	5:E:154:THR:HB	2.10	0.52
5:E:237:LEU:HD23	6:F:163:LEU:CD1	2.39	0.52
6:F:31:MET:SD	6:F:183:PHE:HB2	2.49	0.52
6:F:82:GLU:HG2	6:F:84:MET:SD	2.49	0.52
6:F:232:HIS:O	6:F:236:LYS:HB2	2.10	0.52
7:G:96:LEU:HG	7:G:99:LEU:CD1	2.39	0.52
7:G:98:HIS:CA	7:G:101:ILE:HG22	2.33	0.52
7:G:114:SER:O	7:G:118:LYS:HG2	2.09	0.52
7:G:127:GLU:OE1	7:G:127:GLU:N	2.36	0.52
8:H:55:TYR:CD2	8:H:56:LEU:HD22	2.41	0.52
8:H:200:LEU:HD23	8:H:203:TYR:CE2	2.44	0.52
10:O:220:LYS:CD	10:O:270:MET:HG2	2.39	0.52
10:O:388:PRO:HB3	10:O:425:ILE:HG23	1.91	0.52
10:O:610:LEU:HD12	10:O:613:THR:CB	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:618:LEU:HD22	10:O:625:HIS:CE1	2.44	0.52
11:P:10:HIS:N	15:P:251:HOH:O	2.36	0.52
11:P:22:SER:O	11:P:56:THR:HA	2.09	0.52
13:R:39:VAL:CB	13:R:70:VAL:HG13	2.38	0.52
1:A:145:LEU:O	1:A:149:PRO:HD2	2.09	0.52
1:A:306:LEU:HD22	1:A:329:GLY:CA	2.39	0.52
1:A:352:PHE:CD2	1:A:355:PHE:HB2	2.45	0.52
2:B:324:THR:O	2:B:328:LYS:HG3	2.10	0.52
2:B:418:GLY:HA2	2:B:421:TYR:HD2	1.75	0.52
3:C:15:LEU:HD22	3:C:21:MET:CE	2.38	0.52
3:C:138:LEU:HB2	3:C:169:ILE:CG1	2.33	0.52
3:C:155:PHE:CD2	3:C:159:LEU:HD21	2.44	0.52
3:C:389:ARG:NE	3:C:389:ARG:HA	2.24	0.52
5:E:243:ASN:HB3	6:F:230:MET:CB	2.28	0.52
5:E:258:ASN:O	5:E:261:TYR:HB3	2.09	0.52
6:F:35:VAL:HG13	6:F:171:VAL:HG22	1.91	0.52
7:G:27:LEU:HD21	7:G:55:LEU:HA	1.91	0.52
10:O:312:ILE:HG23	10:O:364:PHE:CD1	2.44	0.52
10:O:406:MET:HE2	10:O:410:GLU:HG2	1.91	0.52
10:O:522:ALA:O	10:O:556:LEU:HD22	2.08	0.52
10:O:568:TYR:CD2	13:R:20:LYS:O	2.63	0.52
10:O:585:LEU:CD1	13:R:22:PHE:CE2	2.69	0.52
10:O:620:VAL:CG1	10:O:622:MET:HG3	2.40	0.52
11:P:7:ILE:CB	11:P:14:ILE:HB	2.31	0.52
11:P:93:PHE:HB2	12:Q:52:HIS:CA	2.39	0.52
12:Q:15:GLU:CB	12:Q:45:GLU:OE1	2.57	0.52
1:A:240:ASN:O	1:A:244:VAL:HG23	2.09	0.52
1:A:373:LYS:NZ	1:A:375:ALA:HB3	2.24	0.52
1:A:387:ASN:HA	1:A:390:LEU:HG	1.91	0.52
1:A:450:SER:N	1:A:463:ARG:HA	2.25	0.52
1:A:476:LEU:HD12	1:A:477:LEU:N	2.24	0.52
2:B:303:LYS:HD2	2:B:312:THR:HG21	1.90	0.52
3:C:111:LEU:HD12	3:C:112:VAL:H	1.73	0.52
5:E:84:LYS:HG3	5:E:91:ILE:CD1	2.40	0.52
5:E:103:THR:O	5:E:104:GLU:HB3	2.09	0.52
6:F:201:ASP:CG	6:F:219:GLU:CA	2.78	0.52
6:F:292:LEU:HD23	6:F:295:ILE:HD12	1.91	0.52
7:G:74:THR:O	7:G:77:ASP:HB2	2.09	0.52
10:O:412:GLU:HA	10:O:415:LEU:CG	2.39	0.52
10:O:486:LEU:CD2	10:O:489:LYS:HD2	2.36	0.52
10:O:504:GLY:C	13:R:26:LYS:CE	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:HIS:HA	1:A:210:ASP:CG	2.30	0.52
1:A:349:SER:CB	1:A:356:LEU:HD11	2.40	0.52
1:A:387:ASN:OD1	1:A:390:LEU:HB2	2.10	0.52
1:A:450:SER:H	1:A:463:ARG:CG	2.23	0.52
2:B:24:SER:H	10:O:652:LYS:HZ3	1.55	0.52
2:B:437:ALA:O	2:B:441:LYS:HE3	2.10	0.52
3:C:23:GLN:HA	3:C:57:GLY:N	2.25	0.52
3:C:205:TYR:CE2	3:C:209:ILE:HG13	2.45	0.52
5:E:327:LEU:HD22	7:G:185:LEU:HD22	1.77	0.52
7:G:104:LEU:O	7:G:111:ILE:HD11	2.09	0.52
7:G:140:ILE:CG1	7:G:158:ILE:HG12	2.39	0.52
8:H:118:PHE:CE1	8:H:137:VAL:HG11	2.45	0.52
10:O:117:LYS:HB3	10:O:136:LEU:O	2.10	0.52
10:O:145:ASP:O	10:O:148:ARG:HG2	2.10	0.52
10:O:286:ILE:HD13	10:O:315:LEU:N	2.25	0.52
10:O:340:VAL:O	10:O:344:LEU:HB2	2.10	0.52
10:O:356:THR:OG1	10:O:358:LEU:CD2	2.58	0.52
10:O:393:LYS:HA	10:O:396:ASP:CB	2.40	0.52
10:O:687:ILE:CG1	10:O:706:GLN:HE22	2.16	0.52
11:P:4:PHE:CZ	12:Q:66:LYS:HG3	2.44	0.52
11:P:8:ARG:CD	11:P:13:THR:HG22	2.40	0.52
11:P:55:LYS:NZ	15:P:256:HOH:O	2.42	0.52
11:P:93:PHE:HB2	12:Q:52:HIS:CB	2.38	0.52
12:Q:23:ALA:HB1	12:Q:29:LEU:HB2	1.91	0.52
1:A:208:TYR:CZ	1:A:216:ASN:HB2	2.44	0.52
1:A:381:LEU:HA	1:A:384:MET:HE3	1.92	0.52
2:B:80:PHE:HB3	2:B:85:PHE:CE1	2.43	0.52
2:B:89:MET:O	2:B:93:LYS:HG3	2.09	0.52
2:B:114:SER:HA	2:B:117:ASP:OD2	2.09	0.52
2:B:340:ASP:HB3	2:B:343:ILE:CB	2.34	0.52
2:B:431:LEU:HA	2:B:434:LEU:HB3	1.90	0.52
3:C:403:PHE:CD1	6:F:312:LEU:HD21	2.44	0.52
4:D:190:CYS:O	4:D:194:VAL:HG23	2.10	0.52
4:D:393:PRO:HA	4:D:396:THR:OG1	2.10	0.52
4:D:399:ALA:CB	6:F:237:LEU:HD22	2.40	0.52
5:E:43:LYS:HA	5:E:45:TRP:CH2	2.45	0.52
5:E:78:MET:HE1	9:N:125:ARG:O	2.10	0.52
5:E:268:ASP:O	5:E:272:LYS:HG3	2.10	0.52
6:F:114:GLN:O	9:N:131:GLU:CG	2.35	0.52
6:F:152:LEU:CG	6:F:165:VAL:HG13	2.36	0.52
8:H:80:ARG:O	8:H:89:ILE:HD11	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:72:LEU:CD1	10:O:94:TYR:HB2	2.40	0.52
10:O:144:LEU:HD12	10:O:194:TYR:CB	2.39	0.52
10:O:314:GLU:HA	10:O:317:ASN:OD1	2.10	0.52
11:P:24:VAL:HG23	11:P:55:LYS:O	2.09	0.52
12:Q:1:MET:CB	12:Q:40:SER:HB2	2.19	0.52
2:B:192:THR:HB	2:B:230:HIS:CG	2.45	0.52
2:B:258:PHE:CG	2:B:280:LEU:HD13	2.44	0.52
2:B:424:LEU:HD21	5:E:267:PHE:CE2	2.45	0.52
3:C:82:GLN:HE21	3:C:123:ILE:CG1	2.22	0.52
3:C:304:LYS:O	3:C:307:ILE:HG13	2.09	0.52
4:D:130:ILE:HG21	4:D:132:LEU:HD23	1.91	0.52
5:E:80:LEU:HG	5:E:117:MET:HE3	1.92	0.52
6:F:73:ILE:HD13	6:F:119:LEU:HB3	1.91	0.52
10:O:21:ILE:N	10:O:38:ARG:NH1	2.54	0.52
10:O:143:ALA:O	10:O:147:TRP:HB2	2.10	0.52
10:O:182:HIS:O	10:O:186:ASN:ND2	2.43	0.52
10:O:286:ILE:HG23	10:O:315:LEU:CG	2.32	0.52
10:O:428:LYS:HD2	10:O:465:CYS:SG	2.49	0.52
10:O:432:GLN:HG3	10:O:469:PHE:CZ	2.44	0.52
10:O:575:ALA:HB2	10:O:650:LYS:HE3	1.92	0.52
10:O:716:SER:C	10:O:718:ILE:H	2.12	0.52
13:R:100:GLU:O	13:R:102:GLU:HG3	2.09	0.52
1:A:431:THR:HG21	1:A:439:GLU:OE1	2.08	0.52
1:A:453:VAL:HG12	1:A:454:ASP:C	2.31	0.52
2:B:125:MET:HA	2:B:128:LEU:HB3	1.91	0.52
2:B:144:ASN:HB3	2:B:148:TRP:HB2	1.91	0.52
2:B:354:ILE:O	2:B:358:VAL:HG23	2.10	0.52
3:C:12:VAL:HG11	3:C:46:LEU:HD12	1.92	0.52
3:C:253:ILE:HA	3:C:256:LEU:CD1	2.39	0.52
3:C:275:LEU:O	3:C:279:VAL:HG23	2.10	0.52
5:E:76:GLU:OE2	5:E:143:TYR:OH	2.26	0.52
5:E:108:ASN:O	9:N:121:ASP:OD1	2.27	0.52
5:E:114:TYR:O	5:E:118:ALA:N	2.42	0.52
5:E:333:ILE:HA	6:F:267:LEU:HD12	1.92	0.52
6:F:113:LYS:NZ	6:F:119:LEU:O	2.42	0.52
6:F:241:TYR:CE1	6:F:250:VAL:HG22	2.44	0.52
6:F:275:PHE:HA	6:F:278:ASP:HB2	1.91	0.52
7:G:41:TYR:HB3	7:G:70:PHE:CD1	2.45	0.52
9:N:103:ILE:HD13	9:N:117:ILE:HD13	1.92	0.52
9:N:147:GLY:C	9:N:148:LYS:HD2	2.30	0.52
10:O:34:THR:O	10:O:38:ARG:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:137:MET:HB2	10:O:141:GLU:OE1	2.10	0.52
10:O:236:MET:HE1	10:O:300:LEU:HD13	1.91	0.52
10:O:342:SER:HA	10:O:345:GLU:OE1	2.10	0.52
10:O:350:PHE:CD2	10:O:368:LEU:CD1	2.82	0.52
10:O:356:THR:O	10:O:359:ASN:N	2.39	0.52
10:O:475:ARG:O	10:O:479:ASP:HB2	2.09	0.52
10:O:692:LYS:CD	10:O:743:TYR:HB2	2.18	0.52
10:O:728:LYS:CB	10:O:730:TYR:CD2	2.92	0.52
11:P:8:ARG:NE	11:P:13:THR:HG22	2.24	0.52
11:P:66:THR:O	15:P:235:HOH:O	2.19	0.52
12:Q:86:MET:SD	12:Q:90:LEU:CB	2.94	0.52
1:A:170:THR:HA	1:A:173:LYS:CG	2.39	0.52
1:A:201:HIS:CA	1:A:220:CYS:HB3	2.40	0.52
1:A:294:LEU:HD12	1:A:299:TYR:OH	2.10	0.52
2:B:163:GLU:HG2	2:B:203:GLN:HG3	1.91	0.52
2:B:385:VAL:O	2:B:388:LEU:HD23	2.10	0.52
3:C:263:LEU:HD13	3:C:278:LEU:CD2	2.39	0.52
4:D:395:TRP:CG	6:F:241:TYR:CD1	2.94	0.52
5:E:79:GLY:HA2	5:E:113:ALA:HB3	1.91	0.52
5:E:188:THR:HG22	5:E:221:TYR:CB	2.36	0.52
9:N:126:ILE:HG21	9:N:167:LEU:CD1	2.40	0.52
10:O:22:LYS:HB2	10:O:67:ASN:C	2.30	0.52
10:O:70:ARG:CB	10:O:74:LYS:HE2	2.40	0.52
10:O:122:ASP:HA	10:O:129:GLY:CA	2.35	0.52
10:O:127:TYR:HB2	10:O:132:MET:CG	2.40	0.52
10:O:361:ASP:OD2	10:O:363:HIS:HB2	2.10	0.52
10:O:692:LYS:CG	10:O:743:TYR:CB	2.87	0.52
11:P:4:PHE:HA	11:P:17:ASP:HB3	1.92	0.52
11:P:93:PHE:C	12:Q:50:ASP:OD1	2.23	0.52
11:P:98:GLU:O	15:P:234:HOH:O	2.19	0.52
12:Q:5:PHE:O	12:Q:43:ARG:N	2.40	0.52
13:R:72:TRP:HA	13:R:76:ASN:CG	2.29	0.52
1:A:494:ALA:O	1:A:498:ASN:N	2.40	0.51
2:B:77:LYS:HA	2:B:80:PHE:CZ	2.44	0.51
2:B:106:ASN:HD22	10:O:401:LYS:HZ1	1.45	0.51
2:B:235:GLY:HA3	2:B:261:ALA:HB1	1.93	0.51
2:B:236:VAL:O	2:B:239:GLU:CB	2.42	0.51
3:C:397:ILE:C	6:F:308:LYS:NZ	2.63	0.51
4:D:163:GLN:O	4:D:166:ALA:HB3	2.10	0.51
4:D:364:ARG:C	4:D:365:GLU:HG2	2.31	0.51
5:E:69:ALA:CB	5:E:172:PRO:HB3	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:116:TYR:CA	9:N:132:GLU:HG3	2.38	0.51
5:E:174:ARG:O	5:E:178:ALA:HB3	2.10	0.51
5:E:176:ILE:HA	6:F:194:GLU:CG	2.37	0.51
6:F:41:VAL:HG11	6:F:73:ILE:CB	2.40	0.51
6:F:292:LEU:HD23	6:F:295:ILE:CD1	2.40	0.51
7:G:129:GLU:O	7:G:133:ILE:HG12	2.10	0.51
10:O:266:CYS:HA	10:O:269:ARG:CG	2.39	0.51
10:O:354:ILE:HD12	10:O:368:LEU:HD23	1.81	0.51
10:O:368:LEU:O	10:O:372:LEU:CB	2.50	0.51
10:O:494:ILE:HD11	10:O:539:MET:HB3	1.92	0.51
10:O:555:TRP:CH2	13:R:27:TRP:CZ2	2.98	0.51
10:O:588:PHE:CE1	10:O:599:LEU:HB2	2.45	0.51
10:O:612:LYS:CB	10:O:657:MET:SD	2.98	0.51
10:O:660:ASP:O	10:O:662:PRO:HD2	2.10	0.51
11:P:20:GLU:OE2	11:P:63:THR:HA	2.11	0.51
13:R:53:CYS:O	13:R:57:GLN:N	2.37	0.51
1:A:99:ARG:NH1	1:A:392:MET:HB3	2.26	0.51
1:A:119:LEU:HD11	1:A:131:TYR:CD1	2.46	0.51
1:A:236:ASN:HA	1:A:239:LEU:CD2	2.39	0.51
3:C:155:PHE:HD2	3:C:159:LEU:HD21	1.75	0.51
3:C:232:LEU:HD22	3:C:238:VAL:HG22	1.92	0.51
3:C:233:ILE:HG22	3:C:304:LYS:NZ	2.26	0.51
4:D:369:THR:HA	4:D:372:LYS:CG	2.41	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HD12	1.91	0.51
5:E:246:TRP:CZ3	5:E:247:VAL:HG22	2.44	0.51
6:F:35:VAL:HG13	6:F:171:VAL:CG2	2.40	0.51
6:F:52:SER:O	6:F:56:ILE:HG12	2.10	0.51
6:F:242:VAL:HG22	6:F:256:ILE:CG2	2.39	0.51
6:F:270:LEU:HD13	6:F:272:THR:HG21	1.89	0.51
7:G:110:CYS:O	7:G:151:LEU:HD22	2.10	0.51
8:H:13:PHE:CD1	8:H:105:ILE:HG22	2.44	0.51
8:H:131:ASP:OD1	8:H:141:VAL:HA	2.10	0.51
10:O:32:ARG:HA	10:O:35:TRP:CD2	2.45	0.51
10:O:144:LEU:CD1	10:O:194:TYR:CB	2.85	0.51
10:O:236:MET:SD	10:O:278:LEU:CD2	2.92	0.51
10:O:282:CYS:O	10:O:294:MET:HE3	2.10	0.51
10:O:386:LYS:HA	10:O:389:GLU:OE1	2.10	0.51
1:A:76:ASP:O	1:A:78:GLU:CA	2.58	0.51
1:A:78:GLU:CG	1:A:107:CYS:HA	2.38	0.51
1:A:205:GLY:HA3	1:A:221:TYR:HE2	1.75	0.51
1:A:301:GLN:NE2	1:A:305:CYS:SG	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:32:LEU:CD2	10:O:648:ARG:NH2	2.67	0.51
2:B:165:TYR:CE1	2:B:168:LEU:HD23	2.44	0.51
2:B:400:GLY:N	2:B:412:ASP:H	2.08	0.51
2:B:427:TRP:HE1	5:E:270:SER:CA	2.23	0.51
2:B:429:ASN:O	2:B:432:ASN:HB3	2.10	0.51
2:B:436:GLN:HA	2:B:439:VAL:HB	1.92	0.51
2:B:438:VAL:O	2:B:441:LYS:HG2	2.10	0.51
3:C:11:SER:O	3:C:16:SER:N	2.42	0.51
3:C:122:GLY:HA2	3:C:125:LYS:HZ3	1.74	0.51
3:C:135:THR:CG2	3:C:166:MET:HA	2.38	0.51
3:C:159:LEU:HA	3:C:162:LEU:HD21	1.91	0.51
3:C:192:TYR:CZ	3:C:200:ARG:HG2	2.45	0.51
3:C:299:LEU:CD1	3:C:302:LEU:HD23	2.40	0.51
3:C:338:VAL:HA	3:C:341:MET:CE	2.41	0.51
5:E:118:ALA:CB	9:N:133:LYS:HZ2	2.14	0.51
6:F:67:GLN:CD	6:F:98:ILE:HD11	2.30	0.51
6:F:221:LEU:O	6:F:224:GLN:HB2	2.10	0.51
7:G:15:PHE:HD1	7:G:30:LEU:HD12	1.73	0.51
7:G:114:SER:HA	7:G:117:LEU:HD12	1.91	0.51
7:G:172:ARG:NE	7:G:172:ARG:HA	2.25	0.51
10:O:57:LEU:HD21	10:O:108:LEU:CD2	2.40	0.51
10:O:385:CYS:SG	10:O:389:GLU:HG3	2.49	0.51
10:O:406:MET:HE3	10:O:410:GLU:HG2	1.93	0.51
10:O:494:ILE:H	10:O:494:ILE:HD12	1.74	0.51
10:O:513:GLN:HG3	10:O:515:GLY:H	1.75	0.51
10:O:584:VAL:HG11	10:O:610:LEU:HD13	1.90	0.51
10:O:615:LYS:HG2	10:O:628:GLU:OE1	2.10	0.51
10:O:696:HIS:NE2	10:O:719:LYS:HG2	2.25	0.51
11:P:14:ILE:HA	12:Q:17:GLU:HB3	1.93	0.51
12:Q:46:LEU:HD12	12:Q:54:LEU:HD22	0.52	0.51
2:B:76:ILE:HD11	2:B:92:TYR:N	2.25	0.51
2:B:304:ASN:C	2:B:309:LEU:HD23	2.30	0.51
2:B:328:LYS:O	2:B:331:LYS:HB3	2.11	0.51
2:B:347:ILE:O	2:B:351:LEU:HD23	2.10	0.51
2:B:353:ASN:O	2:B:356:THR:HB	2.10	0.51
3:C:145:LEU:O	3:C:148:LEU:HB2	2.10	0.51
4:D:316:TYR:CZ	7:G:145:LEU:CG	2.75	0.51
4:D:318:ASN:CB	4:D:361:PHE:CE1	2.82	0.51
4:D:370:TRP:HD1	6:F:269:VAL:HG12	1.74	0.51
4:D:394:GLU:HG2	4:D:395:TRP:H	1.75	0.51
5:E:60:LEU:O	5:E:63:LEU:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:161:PHE:CB	5:E:162:GLN:HG3	2.40	0.51
5:E:189:TYR:CZ	5:E:222:TYR:HB3	2.46	0.51
5:E:240:LEU:HB3	6:F:163:LEU:HB2	1.92	0.51
6:F:81:ILE:HD12	6:F:186:LEU:HD23	1.91	0.51
8:H:21:GLU:OE1	8:H:40:LEU:HB3	2.10	0.51
9:N:101:MSE:HE2	9:N:162:MSE:SE	2.61	0.51
9:N:103:ILE:HG22	9:N:162:MSE:O	2.10	0.51
9:N:131:GLU:HA	9:N:134:GLU:O	2.10	0.51
9:N:151:ASN:HB3	9:N:154:LYS:CG	2.37	0.51
10:O:10:PHE:HB3	10:O:56:ARG:CB	2.30	0.51
10:O:75:ARG:NH2	10:O:89:ARG:HH12	2.08	0.51
10:O:397:ASN:O	10:O:404:LYS:HD3	2.09	0.51
10:O:489:LYS:HA	10:O:492:ASN:ND2	2.22	0.51
10:O:508:GLN:CD	13:R:28:ASN:CB	2.79	0.51
10:O:540:PHE:O	10:O:544:TYR:HB3	2.10	0.51
10:O:560:CYS:HB2	10:O:579:THR:CG2	2.32	0.51
11:P:70:GLN:HG2	15:P:278:HOH:O	2.11	0.51
12:Q:46:LEU:CD1	12:Q:54:LEU:HD21	2.10	0.51
13:R:52:LEU:HD21	13:R:63:ALA:HB3	1.92	0.51
1:A:136:ARG:O	1:A:140:GLU:HG3	2.10	0.51
3:C:387:ASP:C	6:F:297:LYS:HZ1	2.14	0.51
4:D:364:ARG:O	4:D:365:GLU:HG2	2.11	0.51
5:E:75:LEU:HB3	5:E:100:VAL:O	2.10	0.51
5:E:80:LEU:HD13	5:E:114:TYR:CE1	2.45	0.51
6:F:72:LEU:HD11	6:F:152:LEU:CB	2.41	0.51
6:F:102:LYS:NZ	6:F:141:GLN:HG2	2.25	0.51
6:F:108:LYS:O	6:F:111:GLN:HB2	2.11	0.51
6:F:139:HIS:ND1	6:F:151:PHE:HB2	2.25	0.51
6:F:215:SER:O	6:F:219:GLU:HG3	2.11	0.51
7:G:199:LYS:HZ2	8:H:208:GLU:HG2	1.75	0.51
8:H:162:VAL:O	8:H:163:LEU:HD23	2.11	0.51
10:O:83:VAL:HA	10:O:86:MET:CB	2.40	0.51
10:O:185:ILE:C	10:O:255:HIS:HD1	2.14	0.51
10:O:285:ILE:CB	10:O:294:MET:HE2	2.34	0.51
10:O:337:THR:HA	10:O:341:GLU:HG2	1.93	0.51
10:O:618:LEU:HD13	10:O:625:HIS:HE1	1.75	0.51
11:P:18:ALA:HB3	11:P:57:LEU:CD1	2.37	0.51
1:A:168:GLU:O	1:A:171:ARG:HB3	2.10	0.51
1:A:306:LEU:CD1	1:A:329:GLY:HA2	2.36	0.51
2:B:359:LEU:HD21	2:B:378:LEU:CD2	2.40	0.51
2:B:362:LEU:O	2:B:365:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:369:ILE:HB	2:B:374:ILE:CD1	2.40	0.51
3:C:121:ILE:HG23	3:C:145:LEU:CD1	2.39	0.51
3:C:148:LEU:O	3:C:152:ALA:N	2.44	0.51
3:C:271:ASN:HB3	3:C:274:GLU:CG	2.40	0.51
3:C:336:LYS:HA	3:C:339:LEU:HD21	1.92	0.51
3:C:352:ASN:HD22	3:C:357:MET:HB2	1.76	0.51
3:C:369:ASN:CB	3:C:372:MET:H	2.23	0.51
4:D:218:HIS:O	4:D:221:GLU:N	2.43	0.51
5:E:44:PRO:HD2	5:E:45:TRP:CZ3	2.46	0.51
5:E:67:MET:CE	6:F:42:ALA:HB1	2.41	0.51
7:G:66:LEU:N	7:G:85:LEU:HD22	2.26	0.51
7:G:124:ASN:HB3	7:G:126:ARG:NH1	2.25	0.51
10:O:185:ILE:HG12	10:O:207:PHE:CD2	2.43	0.51
10:O:728:LYS:O	10:O:729:GLN:HB2	2.10	0.51
13:R:44:ILE:HD12	13:R:84:ILE:HA	1.92	0.51
1:A:421:ASP:CA	1:A:459:ILE:HG12	2.35	0.51
2:B:172:LEU:HD22	2:B:197:ILE:CG1	2.41	0.51
2:B:351:LEU:O	2:B:354:ILE:HG13	2.11	0.51
2:B:369:ILE:HD12	2:B:374:ILE:HD12	1.93	0.51
4:D:300:LEU:HD13	4:D:304:VAL:HG23	1.92	0.51
5:E:69:ALA:CB	5:E:139:SER:HB2	2.38	0.51
5:E:106:ARG:HD3	9:N:124:GLU:C	2.30	0.51
5:E:115:GLU:HA	9:N:133:LYS:HZ3	1.74	0.51
5:E:318:LEU:CD2	6:F:286:VAL:CG1	2.89	0.51
6:F:39:VAL:HG22	6:F:122:LEU:HD11	1.92	0.51
6:F:43:LEU:HD23	6:F:191:ALA:CB	2.40	0.51
6:F:109:GLU:HG2	6:F:110:GLU:N	2.26	0.51
6:F:151:PHE:CB	6:F:168:PHE:HB2	2.34	0.51
6:F:201:ASP:CB	6:F:219:GLU:O	2.57	0.51
7:G:5:GLN:OE1	7:G:158:ILE:HD12	2.10	0.51
7:G:116:LEU:O	7:G:120:LEU:HB2	2.11	0.51
10:O:57:LEU:CD2	10:O:108:LEU:HD21	2.40	0.51
10:O:550:GLY:HA3	13:R:36:ASP:HA	1.91	0.51
1:A:97:ILE:CA	1:A:100:LEU:HD12	2.36	0.51
1:A:247:TYR:C	1:A:249:GLN:HG3	2.31	0.51
1:A:304:LYS:HA	1:A:307:LEU:HD21	1.92	0.51
1:A:380:MET:O	1:A:384:MET:HG3	2.11	0.51
2:B:170:LYS:HA	2:B:173:ARG:HH21	1.75	0.51
2:B:347:ILE:HG23	2:B:348:GLU:H	1.75	0.51
2:B:382:VAL:HA	2:B:385:VAL:CG2	2.40	0.51
2:B:412:ASP:OD1	2:B:414:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:28:ILE:HG23	3:C:95:TYR:O	2.10	0.51
3:C:34:LEU:HB3	3:C:42:LEU:CD2	2.41	0.51
3:C:330:GLY:HA3	3:C:333:GLU:HB2	1.92	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HG	1.92	0.51
5:E:311:THR:HA	6:F:289:MET:HE1	1.88	0.51
5:E:318:LEU:HD13	6:F:282:GLN:CG	2.37	0.51
7:G:100:THR:CG2	7:G:120:LEU:HD21	2.40	0.51
8:H:34:PRO:HB3	8:H:64:ILE:CG2	2.29	0.51
8:H:34:PRO:CG	8:H:64:ILE:HG12	2.40	0.51
8:H:164:PRO:HB2	8:H:166:LYS:NZ	2.26	0.51
10:O:4:LYS:HD2	10:O:49:TYR:HB3	1.91	0.51
10:O:366:SER:O	10:O:370:LYS:HB2	2.11	0.51
10:O:473:LEU:HD22	10:O:512:LEU:CD1	2.41	0.51
11:P:3:VAL:CG2	11:P:57:LEU:HD13	2.40	0.51
13:R:79:PHE:HE2	13:R:96:LEU:HB3	1.75	0.51
1:A:208:TYR:CG	1:A:217:ALA:HB2	2.46	0.51
1:A:321:SER:C	1:A:325:VAL:HG23	2.31	0.51
2:B:89:MET:HG2	2:B:93:LYS:CE	2.36	0.51
2:B:172:LEU:HD22	2:B:197:ILE:HD13	1.92	0.51
2:B:224:ILE:HG22	2:B:228:ILE:HB	1.91	0.51
2:B:246:LEU:HB2	2:B:279:TYR:HH	1.75	0.51
3:C:49:LEU:HD23	3:C:49:LEU:H	1.76	0.51
3:C:218:HIS:HA	3:C:221:LEU:HB2	1.93	0.51
3:C:228:ILE:HD13	3:C:260:TYR:CB	2.38	0.51
3:C:233:ILE:HA	3:C:301:SER:HB3	1.92	0.51
3:C:266:VAL:O	3:C:269:THR:OG1	2.22	0.51
3:C:348:PHE:HB2	3:C:360:PHE:HD1	1.75	0.51
3:C:350:SER:H	3:C:358:VAL:HG13	1.76	0.51
3:C:352:ASN:CA	8:H:126:THR:HB	2.41	0.51
5:E:125:LYS:CB	5:E:130:LEU:HD23	2.40	0.51
5:E:187:ARG:HG3	5:E:224:LEU:HD11	1.93	0.51
6:F:46:LEU:HD12	6:F:49:LEU:CB	2.41	0.51
6:F:150:LEU:CD2	6:F:167:VAL:HG13	2.41	0.51
7:G:72:TYR:CZ	7:G:164:LYS:HB2	2.46	0.51
8:H:17:LEU:HA	8:H:43:LEU:CD1	2.35	0.51
8:H:81:ILE:HG22	8:H:84:ARG:NH1	2.26	0.51
8:H:130:ALA:HB3	8:H:160:ARG:HG2	1.91	0.51
8:H:165:ARG:C	8:H:166:LYS:HD3	2.30	0.51
9:N:144:ILE:HD13	10:O:689:LYS:C	2.32	0.51
10:O:414:ARG:HG3	10:O:418:PHE:CE2	2.46	0.51
10:O:422:PHE:HA	10:O:425:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:499:THR:HB	10:O:532:GLU:HG3	1.93	0.51
10:O:503:LEU:O	13:R:26:LYS:N	2.42	0.51
10:O:526:THR:CB	10:O:604:GLN:HE21	2.24	0.51
10:O:612:LYS:NZ	10:O:656:SER:HA	2.25	0.51
11:P:9:ARG:HD2	11:P:12:THR:OG1	2.10	0.51
1:A:189:LYS:HD3	12:Q:71:SER:HB2	1.93	0.51
1:A:256:SER:O	1:A:259:SER:OG	2.24	0.51
1:A:279:GLN:HE21	1:A:313:HIS:HB2	1.75	0.51
1:A:334:LEU:HA	1:A:337:PHE:CD1	2.45	0.51
1:A:449:ILE:CB	1:A:463:ARG:HB2	2.40	0.51
1:A:454:ASP:HB3	1:A:457:SER:CB	2.39	0.51
2:B:314:LEU:HD21	2:B:329:ILE:HB	1.92	0.51
2:B:382:VAL:O	2:B:385:VAL:HB	2.10	0.51
2:B:438:VAL:HA	2:B:441:LYS:HE3	1.91	0.51
3:C:196:LYS:HA	3:C:198:PHE:CE1	2.46	0.51
3:C:332:GLN:O	3:C:336:LYS:HE3	2.11	0.51
4:D:365:GLU:C	6:F:270:LEU:CG	2.80	0.51
4:D:387:LYS:O	4:D:390:GLN:NE2	2.44	0.51
5:E:64:LYS:HB3	5:E:96:PHE:HB3	1.92	0.51
5:E:69:ALA:O	5:E:141:PRO:HB3	2.11	0.51
5:E:159:GLN:CG	5:E:165:PHE:HB3	2.29	0.51
6:F:215:SER:OG	7:G:200:GLU:OE2	2.24	0.51
6:F:269:VAL:HG12	6:F:270:LEU:CD2	2.40	0.51
6:F:272:THR:O	6:F:276:LYS:HG3	2.11	0.51
8:H:90:TYR:CD1	8:H:110:ARG:HD2	2.46	0.51
8:H:129:ILE:HB	8:H:132:ASP:CG	2.32	0.51
8:H:153:TRP:NE1	8:H:165:ARG:HG3	2.24	0.51
9:N:100:SER:N	9:N:117:ILE:O	2.44	0.51
10:O:439:LEU:HD21	10:O:512:LEU:HD21	1.92	0.51
10:O:483:SER:HB3	10:O:509:ILE:HG22	1.93	0.51
10:O:530:PRO:HD2	10:O:533:LEU:HD11	1.92	0.51
11:P:3:VAL:CG2	11:P:5:LEU:HD11	2.41	0.51
11:P:63:THR:OG1	11:P:66:THR:OG1	2.08	0.51
12:Q:11:LYS:N	12:Q:48:GLN:C	2.65	0.51
1:A:262:GLU:HG3	1:A:285:LEU:HD13	1.93	0.50
1:A:277:GLN:CD	1:A:280:ALA:HA	2.31	0.50
1:A:306:LEU:CD1	1:A:332:CYS:HB2	2.41	0.50
1:A:353:LYS:HA	1:A:356:LEU:CD2	2.36	0.50
1:A:378:LEU:HD13	1:A:406:ARG:HH12	1.75	0.50
1:A:408:ARG:HD2	1:A:411:ILE:HD12	1.93	0.50
2:B:132:TYR:CE2	2:B:158:LEU:HD11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:198:TYR:O	2:B:201:GLU:HB2	2.10	0.50
2:B:256:THR:N	13:R:62:SER:HB3	2.24	0.50
3:C:115:LYS:O	3:C:116:GLN:HG3	2.12	0.50
3:C:224:TYR:O	3:C:228:ILE:HG13	2.11	0.50
3:C:275:LEU:HD12	3:C:276:ARG:N	2.26	0.50
3:C:352:ASN:HB2	8:H:126:THR:CB	2.40	0.50
5:E:170:ILE:CG1	5:E:183:LEU:HA	2.41	0.50
5:E:319:MET:CE	8:H:203:TYR:HB2	2.40	0.50
6:F:34:GLY:HA3	6:F:182:LEU:O	2.11	0.50
6:F:131:PRO:HA	6:F:153:LYS:HE3	1.92	0.50
6:F:142:VAL:C	6:F:149:PRO:HG3	2.31	0.50
8:H:46:LEU:O	8:H:109:LEU:HD13	2.11	0.50
8:H:107:GLU:HG2	8:H:110:ARG:HH22	1.76	0.50
8:H:139:LEU:HD22	8:H:143:GLU:CG	2.42	0.50
10:O:191:VAL:O	10:O:191:VAL:HG12	2.11	0.50
10:O:226:LEU:CD1	10:O:242:ARG:HH11	2.03	0.50
10:O:401:LYS:HG3	10:O:449:MET:HG3	1.93	0.50
10:O:451:MET:N	10:O:451:MET:SD	2.84	0.50
10:O:555:TRP:HH2	13:R:27:TRP:CZ2	2.28	0.50
10:O:617:LEU:HB3	10:O:623:ILE:CB	2.34	0.50
11:P:24:VAL:HB	11:P:53:ASP:CA	2.34	0.50
11:P:98:GLU:HA	15:P:275:HOH:O	2.11	0.50
12:Q:17:GLU:HG3	12:Q:43:ARG:CZ	2.22	0.50
1:A:86:GLN:HA	1:A:89:ALA:HB3	1.93	0.50
1:A:173:LYS:O	1:A:177:LYS:HG3	2.11	0.50
1:A:327:ILE:CG2	1:A:331:LEU:HD12	2.41	0.50
1:A:449:ILE:HB	1:A:463:ARG:HB2	1.93	0.50
1:A:470:THR:C	1:A:474:LYS:HE3	2.31	0.50
2:B:99:ILE:HG12	2:B:138:ALA:HB1	1.93	0.50
2:B:216:ALA:HA	2:B:219:GLU:CD	2.32	0.50
2:B:314:LEU:HD21	2:B:329:ILE:CB	2.41	0.50
2:B:346:HIS:O	2:B:349:GLU:HB3	2.11	0.50
2:B:438:VAL:HA	2:B:441:LYS:HG2	1.93	0.50
3:C:125:LYS:HD2	3:C:161:TYR:HE2	1.76	0.50
3:C:210:THR:HG21	3:C:244:TYR:CE1	2.46	0.50
4:D:120:TRP:HE3	4:D:154:LEU:HD23	1.75	0.50
4:D:369:THR:HB	6:F:270:LEU:CD2	2.41	0.50
5:E:123:ASN:HD22	6:F:107:THR:CG2	2.24	0.50
5:E:201:SER:HA	5:E:221:TYR:CE2	2.47	0.50
5:E:333:ILE:HG13	6:F:267:LEU:HB2	1.93	0.50
6:F:201:ASP:CG	6:F:219:GLU:C	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:135:ALA:O	7:G:140:ILE:HG22	2.11	0.50
9:N:142:ARG:HH11	9:N:149:GLN:NE2	2.08	0.50
10:O:439:LEU:CG	10:O:443:LEU:HD13	2.40	0.50
10:O:620:VAL:HG13	10:O:645:SER:H	1.76	0.50
10:O:688:MET:CE	10:O:730:TYR:CB	2.89	0.50
11:P:23:THR:HG22	11:P:56:THR:HG22	1.93	0.50
1:A:111:ARG:O	1:A:115:LEU:HG	2.11	0.50
1:A:128:VAL:O	1:A:131:TYR:HB3	2.11	0.50
1:A:185:LEU:HG	1:A:189:LYS:HE3	1.92	0.50
2:B:173:ARG:O	2:B:177:GLN:HG2	2.12	0.50
2:B:273:ARG:CZ	2:B:277:LEU:HB3	2.41	0.50
2:B:330:LEU:HA	2:B:333:ASN:CB	2.33	0.50
5:E:37:GLN:HA	5:E:40:LEU:CD1	2.38	0.50
5:E:43:LYS:CE	5:E:46:THR:HG21	2.41	0.50
6:F:153:LYS:HB3	6:F:166:SER:HB2	1.93	0.50
8:H:17:LEU:HA	8:H:43:LEU:HD22	1.93	0.50
8:H:34:PRO:HB2	8:H:35:PRO:HD3	1.94	0.50
8:H:115:ARG:O	8:H:118:PHE:HB2	2.12	0.50
10:O:146:MET:HE1	10:O:149:LYS:HD2	1.92	0.50
10:O:396:ASP:OD1	10:O:442:ARG:HD3	2.12	0.50
10:O:458:ILE:CG2	10:O:470:THR:HB	2.41	0.50
10:O:541:GLU:OE2	10:O:552:LYS:HB3	2.11	0.50
10:O:587:ALA:HB1	10:O:599:LEU:HD13	1.92	0.50
10:O:623:ILE:HD13	10:O:625:HIS:HB3	1.93	0.50
11:P:9:ARG:HG2	15:P:251:HOH:O	2.11	0.50
11:P:63:THR:N	15:P:257:HOH:O	2.43	0.50
11:P:100:PRO:HG2	11:P:103:MET:H	1.76	0.50
13:R:81:PHE:O	13:R:84:ILE:HG22	2.12	0.50
1:A:176:LEU:HD22	15:A:604:HOH:O	2.12	0.50
1:A:182:ASP:O	1:A:185:LEU:HB3	2.12	0.50
1:A:251:TRP:CE2	1:A:292:ALA:HA	2.47	0.50
1:A:251:TRP:CD1	1:A:292:ALA:HB2	2.46	0.50
1:A:260:LYS:HG2	1:A:265:PRO:HD3	1.92	0.50
2:B:34:ASN:HA	2:B:57:VAL:HG22	1.93	0.50
2:B:135:THR:HG22	2:B:139:LEU:CD1	2.42	0.50
2:B:169:GLN:HE21	2:B:173:ARG:CD	2.24	0.50
2:B:287:MET:SD	2:B:289:SER:HB3	2.51	0.50
2:B:390:VAL:HA	2:B:393:ILE:HD11	1.93	0.50
2:B:399:HIS:O	2:B:411:LEU:HA	2.11	0.50
3:C:90:GLY:HA3	3:C:93:ILE:CD1	2.36	0.50
3:C:94:ARG:N	3:C:131:MET:HG3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:196:LYS:HA	3:C:198:PHE:CZ	2.46	0.50
3:C:321:ASP:O	3:C:324:SER:HB3	2.11	0.50
5:E:57:ILE:HD12	5:E:226:VAL:CG1	2.41	0.50
5:E:64:LYS:HB3	5:E:96:PHE:HB2	1.94	0.50
5:E:147:LEU:HD22	5:E:151:ASP:CB	2.40	0.50
5:E:200:PRO:HG2	5:E:223:ALA:H	1.76	0.50
6:F:30:VAL:O	6:F:136:ILE:HG21	2.11	0.50
6:F:117:LYS:CE	9:N:135:GLY:O	2.60	0.50
6:F:231:LEU:HD11	6:F:235:VAL:HG23	1.93	0.50
7:G:129:GLU:N	7:G:129:GLU:OE1	2.45	0.50
8:H:22:ASN:OD1	8:H:23:GLN:N	2.45	0.50
9:N:137:PRO:O	9:N:141:GLN:HG3	2.10	0.50
10:O:35:TRP:CG	10:O:104:LEU:HD12	2.42	0.50
10:O:100:TYR:CE1	12:Q:35:GLY:C	2.84	0.50
10:O:513:GLN:HE22	13:R:34:ALA:CA	2.23	0.50
10:O:562:GLY:CA	10:O:577:VAL:H	2.21	0.50
10:O:657:MET:C	10:O:659:LYS:HZ2	2.14	0.50
10:O:693:VAL:C	10:O:699:LEU:HG	2.31	0.50
10:O:700:ILE:HG23	10:O:701:GLN:N	2.25	0.50
11:P:46:LYS:HA	15:P:211:HOH:O	2.10	0.50
13:R:89:LYS:HA	13:R:92:GLN:NE2	2.26	0.50
1:A:291:LEU:O	1:A:294:LEU:HB3	2.12	0.50
1:A:421:ASP:CA	1:A:459:ILE:HG23	2.41	0.50
1:A:446:GLU:OE1	1:A:446:GLU:N	2.45	0.50
1:A:497:ARG:NH2	6:F:309:PHE:CE1	2.75	0.50
4:D:395:TRP:CD1	6:F:250:VAL:CG2	2.95	0.50
5:E:78:MET:HE1	5:E:112:ALA:HB3	1.94	0.50
8:H:21:GLU:CD	8:H:40:LEU:HD22	2.32	0.50
10:O:116:ASN:HB2	10:O:136:LEU:HG	1.93	0.50
10:O:232:CYS:C	10:O:234:GLN:N	2.38	0.50
10:O:275:LEU:HG	10:O:279:HIS:ND1	2.27	0.50
10:O:442:ARG:HD2	10:O:448:SER:OG	2.11	0.50
10:O:633:ASP:CB	10:O:635:GLU:HB3	2.39	0.50
10:O:644:PHE:CG	10:O:650:LYS:HA	2.46	0.50
11:P:7:ILE:CB	11:P:14:ILE:HD12	2.42	0.50
11:P:23:THR:HG21	15:P:299:HOH:O	2.11	0.50
11:P:70:GLN:HE22	12:Q:78:PRO:HG2	0.51	0.50
1:A:189:LYS:HD3	12:Q:71:SER:CB	2.42	0.50
1:A:203:ASP:O	1:A:206:ASP:HB2	2.11	0.50
1:A:364:ASP:HA	1:A:367:PHE:HB2	1.93	0.50
2:B:202:ILE:HD11	2:B:218:TYR:OH	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:27:LEU:HB2	3:C:59:LEU:CB	2.42	0.50
3:C:163:ASP:OD1	3:C:192:TYR:OH	2.09	0.50
3:C:338:VAL:HA	3:C:341:MET:HE1	1.91	0.50
3:C:342:ILE:HG22	8:H:120:LEU:HD11	1.93	0.50
4:D:59:LEU:HD11	4:D:95:ARG:NH2	2.26	0.50
4:D:381:VAL:CG1	6:F:235:VAL:HG22	2.41	0.50
5:E:249:THR:CB	6:F:224:GLN:HA	2.41	0.50
6:F:82:GLU:O	6:F:84:MET:HG3	2.12	0.50
7:G:55:LEU:HD21	7:G:63:TYR:CD2	2.46	0.50
8:H:17:LEU:CA	8:H:43:LEU:HD22	2.41	0.50
8:H:57:TRP:CD1	8:H:58:LYS:HD2	2.45	0.50
10:O:339:PHE:CZ	10:O:386:LYS:HB3	2.47	0.50
10:O:615:LYS:HG2	10:O:628:GLU:HB3	1.94	0.50
10:O:615:LYS:HA	10:O:628:GLU:CD	2.32	0.50
10:O:656:SER:O	10:O:657:MET:C	2.50	0.50
1:A:102:PHE:HA	1:A:105:ASP:OD2	2.11	0.50
1:A:299:TYR:O	1:A:302:ALA:HB3	2.12	0.50
1:A:437:GLU:O	1:A:440:LEU:HB2	2.11	0.50
1:A:451:ALA:HB2	1:A:462:ALA:HA	1.93	0.50
2:B:151:THR:HA	2:B:154:LYS:HZ1	1.76	0.50
2:B:198:TYR:HE2	2:B:224:ILE:HD11	1.76	0.50
2:B:314:LEU:HD11	2:B:333:ASN:HD21	1.77	0.50
3:C:23:GLN:C	3:C:58:VAL:HG12	2.32	0.50
3:C:354:LYS:HB2	8:H:161:MET:CE	2.41	0.50
3:C:403:PHE:CE1	6:F:312:LEU:HD21	2.47	0.50
4:D:60:VAL:HG23	4:D:63:ARG:NH1	2.26	0.50
5:E:123:ASN:ND2	6:F:107:THR:HG21	2.27	0.50
6:F:43:LEU:HD12	6:F:85:ASN:HB2	1.94	0.50
6:F:82:GLU:HG3	6:F:189:THR:O	2.12	0.50
7:G:149:ASN:O	7:G:151:LEU:HG	2.11	0.50
8:H:162:VAL:HB	8:H:164:PRO:HD3	1.94	0.50
10:O:301:LEU:CB	10:O:307:GLY:CA	2.67	0.50
10:O:336:PRO:HA	10:O:390:LEU:HB3	1.93	0.50
13:R:55:GLU:HB3	13:R:82:HIS:CE1	2.47	0.50
1:A:262:GLU:HG2	1:A:282:LEU:CD2	2.42	0.50
1:A:425:MET:H	1:A:425:MET:CE	2.25	0.50
2:B:159:TYR:HD1	2:B:162:ARG:HB3	1.74	0.50
3:C:150:LEU:HD11	3:C:190:MET:HB3	1.93	0.50
3:C:198:PHE:CD2	3:C:234:LEU:HD13	2.47	0.50
4:D:388:ILE:HG23	6:F:241:TYR:CE2	2.47	0.50
5:E:65:MET:CA	5:E:96:PHE:HA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:127:VAL:CG1	6:F:90:LEU:HB2	2.41	0.50
6:F:261:TYR:OH	7:G:103:SER:O	2.29	0.50
6:F:270:LEU:HD13	6:F:272:THR:HG23	1.92	0.50
7:G:113:TYR:CE2	7:G:147:GLN:HA	2.47	0.50
7:G:113:TYR:CE2	7:G:150:GLN:HA	2.47	0.50
9:N:142:ARG:NH1	9:N:144:ILE:HD11	2.27	0.50
9:N:160:LYS:O	9:N:160:LYS:HD2	2.11	0.50
10:O:22:LYS:HB3	10:O:67:ASN:CB	2.41	0.50
10:O:436:ALA:CB	10:O:518:PRO:HD3	2.41	0.50
10:O:472:LYS:HG2	10:O:516:ALA:HB1	1.94	0.50
10:O:498:ASP:CG	10:O:532:GLU:HG2	2.32	0.50
10:O:549:SER:CA	13:R:33:TRP:CZ2	2.94	0.50
1:A:350:SER:CA	1:A:353:LYS:HG3	2.38	0.50
1:A:450:SER:OG	1:A:464:ASP:OD2	2.27	0.50
2:B:55:GLN:O	2:B:58:LEU:HB3	2.12	0.50
2:B:57:VAL:CG1	2:B:68:GLY:HA2	2.40	0.50
2:B:277:LEU:HD12	2:B:278:LYS:N	2.27	0.50
3:C:93:ILE:HG12	3:C:130:LYS:HZ1	1.76	0.50
3:C:146:CYS:HB2	3:C:187:TYR:CZ	2.47	0.50
4:D:316:TYR:C	7:G:144:LYS:NZ	2.65	0.50
4:D:358:ILE:CG2	4:D:360:HIS:CE1	2.93	0.50
5:E:149:GLY:N	5:E:210:LYS:HD2	2.26	0.50
5:E:155:GLN:CG	5:E:188:THR:HG21	2.41	0.50
5:E:297:GLU:O	5:E:302:LYS:HE3	2.12	0.50
6:F:286:VAL:O	6:F:289:MET:HB3	2.11	0.50
7:G:188:ILE:O	7:G:192:VAL:HG23	2.12	0.50
8:H:89:ILE:O	8:H:93:ILE:HG13	2.11	0.50
10:O:254:LEU:HD12	10:O:254:LEU:O	2.11	0.50
10:O:279:HIS:HA	10:O:307:GLY:HA2	1.94	0.50
10:O:394:TYR:CE2	10:O:398:LEU:HD12	2.47	0.50
10:O:496:ASN:HD21	10:O:498:ASP:HB3	1.77	0.50
10:O:522:ALA:HB1	10:O:558:TYR:CB	2.41	0.50
10:O:571:LYS:HG3	10:O:642:MET:HE3	1.94	0.50
10:O:623:ILE:HG13	10:O:639:SER:O	2.12	0.50
11:P:30:ILE:HA	15:P:287:HOH:O	2.12	0.50
11:P:35:LEU:HD11	12:Q:43:ARG:NH1	2.27	0.50
12:Q:17:GLU:CG	12:Q:43:ARG:NH2	2.55	0.50
13:R:49:ILE:HG12	13:R:70:VAL:CG2	2.42	0.50
1:A:251:TRP:HB3	1:A:255:LEU:HD12	1.93	0.49
1:A:350:SER:HA	1:A:353:LYS:CE	2.39	0.49
1:A:391:ASP:HB3	1:A:394:LEU:CB	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:SER:CA	1:A:461:TYR:HA	2.38	0.49
1:A:495:VAL:HG23	1:A:500:ILE:CB	2.40	0.49
2:B:72:LEU:HD12	2:B:95:LEU:HD23	1.93	0.49
2:B:248:GLU:HG2	2:B:250:GLU:H	1.77	0.49
3:C:25:CYS:CB	3:C:55:SER:HA	2.41	0.49
3:C:58:VAL:HG22	3:C:62:LEU:CD1	2.42	0.49
3:C:85:ILE:CG1	3:C:124:LEU:HG	2.36	0.49
3:C:124:LEU:O	3:C:128:ILE:HG13	2.12	0.49
3:C:225:LYS:O	3:C:228:ILE:HB	2.12	0.49
3:C:307:ILE:CD1	3:C:308:GLN:HG3	2.42	0.49
4:D:107:ARG:NH1	4:D:126:VAL:O	2.45	0.49
4:D:212:SER:HB3	4:D:225:ALA:HB3	1.93	0.49
4:D:393:PRO:HA	4:D:396:THR:CB	2.41	0.49
5:E:77:VAL:HG21	5:E:98:LEU:H	1.77	0.49
5:E:98:LEU:HD13	5:E:100:VAL:CG1	2.40	0.49
5:E:113:ALA:CB	9:N:128:GLU:CG	2.17	0.49
6:F:73:ILE:HD12	6:F:119:LEU:HD22	1.93	0.49
6:F:197:ARG:NH1	6:F:220:HIS:HA	2.27	0.49
6:F:215:SER:HB2	7:G:200:GLU:CG	2.41	0.49
8:H:93:ILE:HA	8:H:106:MET:CE	2.40	0.49
10:O:25:VAL:CG1	10:O:68:HIS:HA	2.42	0.49
10:O:35:TRP:CB	10:O:104:LEU:HD12	2.35	0.49
10:O:47:VAL:C	10:O:50:PRO:HD3	2.31	0.49
10:O:400:LYS:HD2	10:O:404:LYS:H	1.77	0.49
10:O:414:ARG:HG3	10:O:418:PHE:CZ	2.47	0.49
10:O:530:PRO:HD2	10:O:533:LEU:CD1	2.42	0.49
10:O:540:PHE:CD2	10:O:553:LEU:HD23	2.47	0.49
10:O:699:LEU:HD13	10:O:700:ILE:N	2.26	0.49
12:Q:6:VAL:HG21	12:Q:29:LEU:HD21	1.94	0.49
1:A:100:LEU:HD13	1:A:118:ALA:CB	2.42	0.49
2:B:173:ARG:HA	2:B:176:HIS:ND1	2.26	0.49
2:B:192:THR:HG21	10:O:474:HIS:NE2	2.27	0.49
2:B:323:ILE:HG13	2:B:358:VAL:HG21	1.92	0.49
2:B:342:PHE:HB3	2:B:346:HIS:HD2	1.76	0.49
3:C:85:ILE:HG13	3:C:124:LEU:CG	2.34	0.49
3:C:92:HIS:HB2	3:C:95:TYR:HE1	1.77	0.49
5:E:25:ILE:HD13	5:E:232:SER:HB3	1.94	0.49
5:E:33:LYS:CD	5:E:130:LEU:HB3	2.36	0.49
5:E:79:GLY:O	5:E:136:TRP:CA	2.53	0.49
5:E:148:SER:O	5:E:152:VAL:HG23	2.12	0.49
6:F:138:VAL:HG13	6:F:141:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:217:VAL:HG12	6:F:221:LEU:HG	1.93	0.49
6:F:235:VAL:HG22	6:F:238:ILE:HD12	1.93	0.49
7:G:117:LEU:HD23	7:G:122:MET:CB	2.43	0.49
10:O:10:PHE:HZ	10:O:59:THR:H	1.60	0.49
10:O:101:MET:O	10:O:105:TYR:CB	2.60	0.49
10:O:222:GLU:OE2	10:O:242:ARG:NE	2.41	0.49
10:O:291:LYS:O	10:O:295:ALA:HB2	2.12	0.49
10:O:618:LEU:HD13	10:O:625:HIS:CE1	2.47	0.49
11:P:8:ARG:HG2	11:P:13:THR:HA	1.93	0.49
1:A:327:ILE:HG23	1:A:331:LEU:CD1	2.42	0.49
1:A:334:LEU:HD22	1:A:366:ILE:CG1	2.42	0.49
1:A:362:VAL:HA	1:A:365:ILE:HB	1.95	0.49
1:A:387:ASN:CG	1:A:390:LEU:HD12	2.33	0.49
1:A:416:PRO:HG2	1:A:417:TYR:CD2	2.47	0.49
1:A:441:THR:O	1:A:445:LEU:HG	2.13	0.49
2:B:140:LYS:HD2	2:B:140:LYS:O	2.12	0.49
3:C:26:GLU:H	3:C:55:SER:C	2.16	0.49
3:C:91:GLU:HG3	3:C:92:HIS:CE1	2.47	0.49
3:C:341:MET:HA	3:C:344:ASP:CB	2.43	0.49
3:C:390:LEU:HD22	6:F:298:THR:HG23	1.84	0.49
7:G:129:GLU:O	7:G:133:ILE:HG23	2.12	0.49
8:H:37:TYR:CE2	8:H:64:ILE:HD13	2.47	0.49
8:H:73:GLY:O	8:H:76:SER:OG	2.25	0.49
8:H:139:LEU:HB3	8:H:143:GLU:HG3	1.94	0.49
10:O:210:PRO:C	10:O:213:THR:HB	2.32	0.49
10:O:387:ALA:O	10:O:391:LEU:HB2	2.12	0.49
10:O:396:ASP:HA	10:O:447:LEU:O	2.12	0.49
10:O:581:GLN:HE21	10:O:612:LYS:HZ3	1.60	0.49
13:R:41:ASN:HA	13:R:49:ILE:CB	2.32	0.49
13:R:77:HIS:NE2	13:R:99:ARG:HB3	2.27	0.49
13:R:79:PHE:C	13:R:84:ILE:HB	2.32	0.49
1:A:84:LEU:O	1:A:84:LEU:HD13	2.12	0.49
1:A:393:TYR:C	1:A:396:PRO:HD2	2.31	0.49
1:A:463:ARG:NH1	1:A:464:ASP:O	2.45	0.49
2:B:29:ASN:C	2:B:31:ASP:N	2.65	0.49
2:B:365:PRO:HG2	2:B:366:TYR:CE2	2.48	0.49
3:C:49:LEU:HG	3:C:50:ASP:N	2.27	0.49
3:C:108:THR:HA	3:C:111:LEU:CD2	2.36	0.49
3:C:156:LYS:CE	8:H:25:LEU:HD13	2.35	0.49
3:C:273:SER:HB2	3:C:276:ARG:NH2	2.28	0.49
3:C:279:VAL:HG21	3:C:295:VAL:CG2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:365:GLU:HG3	4:D:366:ALA:CB	2.42	0.49
5:E:78:MET:HG3	5:E:98:LEU:HD12	1.74	0.49
5:E:81:MET:HE3	5:E:135:GLY:HA3	1.93	0.49
5:E:81:MET:CE	5:E:136:TRP:H	2.25	0.49
5:E:140:HIS:N	5:E:144:GLY:O	2.33	0.49
5:E:147:LEU:HB3	5:E:151:ASP:HB3	1.95	0.49
5:E:183:LEU:HD22	5:E:226:VAL:CG1	2.35	0.49
5:E:245:TYR:CE1	6:F:192:THR:HG22	2.37	0.49
7:G:50:ALA:HA	7:G:53:GLN:HB2	1.95	0.49
7:G:98:HIS:O	7:G:102:VAL:HG22	2.12	0.49
7:G:169:ALA:O	7:G:173:THR:HG23	2.11	0.49
7:G:188:ILE:CG1	8:H:197:LEU:HD21	2.41	0.49
7:G:199:LYS:HG3	8:H:209:ASN:C	2.30	0.49
10:O:10:PHE:CE2	10:O:60:GLU:N	2.70	0.49
10:O:105:TYR:CZ	10:O:108:LEU:HD23	2.47	0.49
10:O:188:PHE:CD1	10:O:206:ILE:CG2	2.95	0.49
10:O:468:GLU:OE1	10:O:471:SER:HB3	2.12	0.49
10:O:496:ASN:OD1	10:O:535:LYS:HB3	2.12	0.49
10:O:524:SER:HA	10:O:557:HIS:ND1	2.27	0.49
10:O:544:TYR:HE2	10:O:552:LYS:HA	1.77	0.49
11:P:9:ARG:HB3	11:P:12:THR:CB	2.26	0.49
12:Q:9:VAL:HG22	12:Q:45:GLU:CD	1.98	0.49
1:A:274:ARG:CB	1:A:277:GLN:HA	2.39	0.49
1:A:379:LYS:NZ	1:A:383:GLU:OE2	2.23	0.49
2:B:153:THR:HG23	2:B:196:GLU:HG3	1.94	0.49
2:B:232:LEU:HD23	2:B:232:LEU:H	1.77	0.49
2:B:235:GLY:O	2:B:239:GLU:N	2.41	0.49
2:B:346:HIS:O	2:B:350:LEU:HD23	2.13	0.49
3:C:19:GLY:N	3:C:21:MET:HE1	2.28	0.49
3:C:157:PRO:C	3:C:160:PRO:HD2	2.33	0.49
4:D:393:PRO:HA	4:D:396:THR:HB	1.94	0.49
5:E:312:ILE:HG12	8:H:207:LEU:C	2.33	0.49
5:E:318:LEU:O	5:E:322:VAL:HG23	2.12	0.49
6:F:308:LYS:HA	6:F:311:VAL:CG2	2.43	0.49
7:G:187:GLY:O	7:G:191:GLN:HG2	2.12	0.49
8:H:113:THR:CA	8:H:116:ARG:HD3	2.30	0.49
8:H:127:SER:HB2	8:H:161:MET:SD	2.52	0.49
8:H:154:GLN:HB3	8:H:163:LEU:CG	2.41	0.49
9:N:105:VAL:HG12	9:N:167:LEU:HB2	1.94	0.49
9:N:138:PRO:HA	9:N:141:GLN:CB	2.41	0.49
9:N:173:LEU:HD13	10:O:695:ARG:HG3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:170:ASP:CG	10:O:175:ASP:O	2.51	0.49
10:O:211:PHE:HD2	10:O:259:TYR:CB	2.15	0.49
10:O:527:PHE:CE1	10:O:583:ALA:HA	2.47	0.49
10:O:537:VAL:O	10:O:541:GLU:HG2	2.13	0.49
10:O:564:VAL:CB	13:R:22:PHE:CE1	2.91	0.49
10:O:710:ARG:HB3	10:O:711:PHE:CD1	2.43	0.49
11:P:4:PHE:HE2	12:Q:66:LYS:HG3	1.70	0.49
11:P:7:ILE:HD12	11:P:14:ILE:CG2	2.42	0.49
11:P:13:THR:O	12:Q:17:GLU:HB3	2.12	0.49
13:R:38:VAL:HB	13:R:39:VAL:CA	2.43	0.49
1:A:204:LEU:HD12	1:A:217:ALA:HA	1.93	0.49
1:A:373:LYS:HD3	1:A:376:SER:H	1.77	0.49
2:B:76:ILE:HD13	2:B:88:MET:HG2	1.95	0.49
2:B:259:PHE:O	2:B:263:LYS:HG3	2.12	0.49
2:B:304:ASN:HA	2:B:309:LEU:HD23	1.95	0.49
2:B:427:TRP:CZ2	5:E:266:VAL:O	2.66	0.49
3:C:318:SER:O	3:C:321:ASP:N	2.46	0.49
5:E:63:LEU:HD22	6:F:47:VAL:HG23	1.94	0.49
5:E:147:LEU:CB	5:E:151:ASP:HB3	2.43	0.49
5:E:262:THR:O	5:E:266:VAL:HG23	2.12	0.49
7:G:42:VAL:HG21	7:G:71:ALA:HA	1.94	0.49
7:G:66:LEU:CA	7:G:85:LEU:HD22	2.43	0.49
10:O:24:VAL:HG13	10:O:24:VAL:O	2.11	0.49
10:O:506:SER:HA	13:R:27:TRP:O	2.12	0.49
10:O:551:ARG:HD2	13:R:32:LEU:HB3	1.95	0.49
10:O:555:TRP:HZ3	13:R:27:TRP:CH2	2.31	0.49
10:O:575:ALA:HB2	10:O:650:LYS:CG	2.27	0.49
10:O:688:MET:CE	10:O:730:TYR:HB3	2.43	0.49
10:O:693:VAL:HG12	10:O:699:LEU:CB	2.43	0.49
11:P:3:VAL:HA	11:P:67:ALA:HB3	1.93	0.49
11:P:32:GLU:HB3	15:P:213:HOH:O	2.12	0.49
12:Q:4:ASP:O	12:Q:5:PHE:CD2	2.66	0.49
12:Q:4:ASP:C	12:Q:5:PHE:CD2	2.86	0.49
13:R:87:TRP:CD2	13:R:90:THR:HG21	2.47	0.49
1:A:228:CYS:CA	1:A:233:HIS:HB3	2.42	0.49
1:A:374:TYR:OH	1:A:413:TYR:HB3	2.12	0.49
1:A:388:LEU:HD11	1:A:398:VAL:CB	2.41	0.49
1:A:421:ASP:HA	1:A:459:ILE:CG1	2.35	0.49
2:B:41:ALA:CB	2:B:53:SER:HB2	2.33	0.49
2:B:66:GLU:HB3	2:B:107:TYR:OH	2.13	0.49
2:B:68:GLY:O	2:B:72:LEU:HG	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:48:ALA:HA	3:C:87:THR:HG1	1.77	0.49
3:C:112:VAL:HG22	3:C:116:GLN:HG2	1.95	0.49
3:C:191:ILE:HG22	3:C:195:LEU:HG	1.95	0.49
3:C:267:TYR:HE1	3:C:301:SER:HB2	1.78	0.49
4:D:173:LEU:HD12	4:D:174:LEU:N	2.27	0.49
4:D:239:GLY:O	4:D:243:SER:N	2.46	0.49
4:D:300:LEU:O	4:D:304:VAL:HG23	2.13	0.49
4:D:389:SER:HA	4:D:396:THR:OG1	2.12	0.49
4:D:392:ALA:O	4:D:396:THR:OG1	2.22	0.49
5:E:137:TYR:OH	6:F:115:VAL:HG11	2.11	0.49
5:E:148:SER:CB	5:E:210:LYS:HG3	2.36	0.49
5:E:318:LEU:CD2	6:F:286:VAL:CG2	2.82	0.49
7:G:13:GLU:HA	7:G:16:ILE:HB	1.93	0.49
7:G:14:GLN:OE1	7:G:18:LEU:HD11	2.13	0.49
7:G:27:LEU:HD21	7:G:55:LEU:CB	2.43	0.49
7:G:98:HIS:O	7:G:102:VAL:HG13	2.13	0.49
8:H:122:SER:O	8:H:125:TYR:HB3	2.13	0.49
9:N:1:GLY:HA3	9:N:116:ASP:C	2.33	0.49
10:O:35:TRP:HZ2	12:Q:36:PRO:HD2	1.75	0.49
1:A:197:ILE:HG22	1:A:201:HIS:NE2	2.27	0.49
1:A:289:ALA:O	1:A:292:ALA:HB3	2.12	0.49
1:A:312:ASP:HA	1:A:314:CYS:SG	2.52	0.49
2:B:119:ILE:CG2	2:B:128:LEU:HB2	2.42	0.49
2:B:374:ILE:O	2:B:378:LEU:HG	2.12	0.49
2:B:407:GLN:C	2:B:408:LEU:HD12	2.33	0.49
3:C:5:LEU:CA	3:C:8:PHE:HB2	2.35	0.49
3:C:100:PHE:O	3:C:104:CYS:HB2	2.12	0.49
3:C:369:ASN:O	3:C:372:MET:HB2	2.13	0.49
4:D:365:GLU:O	6:F:270:LEU:CG	2.59	0.49
4:D:381:VAL:HG11	6:F:235:VAL:CG2	2.42	0.49
5:E:242:TRP:HZ2	6:F:221:LEU:O	1.95	0.49
5:E:304:THR:HB	6:F:300:ASN:HD22	1.70	0.49
7:G:23:SER:CA	7:G:27:LEU:HB2	2.31	0.49
8:H:34:PRO:HA	8:H:37:TYR:HB2	1.93	0.49
8:H:103:GLN:HA	8:H:106:MET:CG	2.42	0.49
8:H:118:PHE:HE1	8:H:137:VAL:HG21	1.78	0.49
10:O:107:TYR:CD2	12:Q:96:TYR:CA	2.95	0.49
10:O:225:ASN:HA	10:O:228:GLN:CD	2.32	0.49
10:O:388:PRO:O	10:O:391:LEU:HB3	2.12	0.49
10:O:407:THR:O	10:O:410:GLU:HB3	2.11	0.49
10:O:416:THR:HA	10:O:419:ILE:CD1	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:451:MET:O	10:O:454:GLU:HB2	2.12	0.49
10:O:562:GLY:HA2	10:O:582:MET:SD	2.53	0.49
10:O:599:LEU:O	10:O:603:THR:HG23	2.12	0.49
10:O:620:VAL:HG21	10:O:653:ILE:CG2	2.41	0.49
13:R:49:ILE:O	13:R:68:CYS:N	2.45	0.49
1:A:103:ILE:HD11	1:A:114:ALA:CB	2.42	0.49
2:B:422:THR:HA	2:B:425:ASP:HB2	1.93	0.49
3:C:39:LEU:CD2	3:C:42:LEU:HD11	2.43	0.49
3:C:84:PHE:HA	3:C:88:CYS:HB3	1.94	0.49
3:C:104:CYS:HA	3:C:107:LEU:HB2	1.95	0.49
3:C:153:LYS:HG3	8:H:58:LYS:C	2.33	0.49
3:C:341:MET:O	3:C:344:ASP:HB2	2.12	0.49
4:D:317:ASN:OD1	7:G:144:LYS:CG	2.60	0.49
5:E:80:LEU:O	5:E:137:TYR:HD1	1.96	0.49
5:E:332:ASN:OD1	6:F:268:PRO:HG3	2.12	0.49
6:F:29:SER:N	6:F:133:PRO:HG3	2.27	0.49
6:F:50:ASN:HA	6:F:53:ASP:HB3	1.95	0.49
6:F:72:LEU:HD21	6:F:152:LEU:HD13	1.95	0.49
6:F:150:LEU:CG	6:F:167:VAL:HG13	2.42	0.49
7:G:79:ILE:HD13	7:G:121:GLU:HB2	1.95	0.49
8:H:54:ARG:O	8:H:58:LYS:HD3	2.13	0.49
9:N:1:GLY:HA3	9:N:116:ASP:HB3	1.94	0.49
9:N:173:LEU:HD12	10:O:695:ARG:CZ	2.41	0.49
10:O:215:THR:O	10:O:219:TYR:HB2	2.13	0.49
10:O:219:TYR:C	10:O:270:MET:HE1	2.31	0.49
10:O:493:PHE:HB3	10:O:543:PHE:CZ	2.47	0.49
10:O:527:PHE:CZ	10:O:586:LEU:HD22	2.48	0.49
10:O:567:ASN:HB3	13:R:21:ARG:N	2.14	0.49
1:A:76:ASP:O	1:A:78:GLU:HA	2.13	0.49
1:A:298:LYS:HB3	1:A:300:LYS:NZ	2.28	0.49
1:A:497:ARG:HA	6:F:313:TYR:OH	2.13	0.49
2:B:177:GLN:HA	2:B:180:GLN:C	2.34	0.49
3:C:205:TYR:CE1	3:C:209:ILE:HG13	2.47	0.49
4:D:316:TYR:C	7:G:144:LYS:HZ3	2.17	0.49
5:E:123:ASN:OD1	5:E:126:GLN:NE2	2.46	0.49
5:E:246:TRP:CZ3	6:F:228:ILE:HG12	2.36	0.49
6:F:36:THR:HA	6:F:169:GLU:OE1	2.13	0.49
6:F:73:ILE:HA	6:F:122:LEU:CB	2.43	0.49
6:F:73:ILE:HA	6:F:122:LEU:HB3	1.94	0.49
6:F:152:LEU:CD1	6:F:165:VAL:HG13	2.43	0.49
6:F:260:ALA:HB1	7:G:174:LEU:HD22	1.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:43:PHE:HB3	7:G:46:LEU:HB2	1.94	0.49
8:H:28:PRO:HB3	8:H:31:ILE:HA	1.95	0.49
8:H:128:ILE:N	8:H:161:MET:SD	2.86	0.49
9:N:123:VAL:HA	9:N:126:ILE:HD12	1.93	0.49
10:O:42:ILE:HD13	10:O:45:LEU:HD12	1.95	0.49
10:O:117:LYS:HG2	10:O:120:GLU:CG	2.39	0.49
10:O:459:ASN:O	10:O:463:GLN:HG3	2.13	0.49
10:O:508:GLN:HB2	13:R:28:ASN:HB2	1.94	0.49
10:O:688:MET:CG	10:O:731:ILE:CD1	2.90	0.49
11:P:9:ARG:HG2	11:P:86:GLU:OE2	2.13	0.49
13:R:55:GLU:O	13:R:58:ALA:HB3	2.13	0.49
1:A:184:ASP:O	1:A:187:ASN:HB2	2.13	0.48
1:A:205:GLY:O	1:A:209:LEU:HG	2.13	0.48
1:A:295:ALA:O	1:A:297:ARG:HG3	2.12	0.48
1:A:311:PHE:O	1:A:314:CYS:N	2.45	0.48
1:A:450:SER:C	1:A:463:ARG:HA	2.33	0.48
2:B:106:ASN:O	2:B:109:GLU:HB3	2.13	0.48
2:B:119:ILE:HG22	2:B:128:LEU:HB2	1.95	0.48
2:B:385:VAL:HA	2:B:388:LEU:CD2	2.43	0.48
3:C:233:ILE:HG12	3:C:301:SER:CB	2.42	0.48
3:C:279:VAL:HG22	3:C:286:PHE:CZ	2.48	0.48
4:D:384:LEU:HB2	6:F:259:GLU:CD	2.33	0.48
5:E:43:LYS:HA	5:E:45:TRP:CZ3	2.47	0.48
5:E:63:LEU:CD2	6:F:44:HIS:HB2	2.43	0.48
5:E:246:TRP:CH2	6:F:228:ILE:HA	2.14	0.48
7:G:117:LEU:C	7:G:118:LYS:HE2	2.33	0.48
7:G:146:ASP:CG	7:G:149:ASN:HB2	2.33	0.48
7:G:190:GLU:O	7:G:194:ARG:HG3	2.12	0.48
8:H:78:GLY:HA2	8:H:81:ILE:CD1	2.30	0.48
9:N:144:ILE:HD11	10:O:689:LYS:O	2.13	0.48
10:O:57:LEU:CD2	10:O:112:PHE:HB3	2.42	0.48
10:O:575:ALA:HB3	10:O:650:LYS:HE3	1.94	0.48
11:P:3:VAL:HG23	11:P:5:LEU:HD21	1.94	0.48
11:P:4:PHE:CE1	12:Q:66:LYS:HD3	2.48	0.48
11:P:43:ARG:CG	11:P:80:ARG:HE	2.26	0.48
13:R:49:ILE:HG12	13:R:70:VAL:HG23	1.94	0.48
1:A:228:CYS:HB3	1:A:233:HIS:HB3	1.95	0.48
1:A:263:SER:O	1:A:267:ILE:HD13	2.13	0.48
1:A:304:LYS:O	1:A:308:LEU:HG	2.13	0.48
1:A:306:LEU:HD13	1:A:329:GLY:O	2.14	0.48
1:A:349:SER:HB3	1:A:356:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:SER:HA	1:A:353:LYS:CG	2.42	0.48
2:B:273:ARG:HH12	2:B:277:LEU:HB3	1.75	0.48
2:B:312:THR:HA	2:B:315:VAL:HG22	1.95	0.48
2:B:374:ILE:O	2:B:377:GLU:HB3	2.12	0.48
3:C:13:ARG:HG2	3:C:45:VAL:HG11	1.94	0.48
3:C:75:GLU:HA	3:C:78:PHE:HB3	1.95	0.48
3:C:181:PHE:O	3:C:184:TYR:HB3	2.13	0.48
3:C:246:SER:HB3	3:C:250:GLY:N	2.24	0.48
3:C:355:ASP:CB	3:C:357:MET:HG2	2.43	0.48
3:C:395:GLN:O	3:C:398:THR:HB	2.13	0.48
4:D:149[A]:LEU:HD21	4:D:186:HIS:HB3	1.95	0.48
5:E:77:VAL:CG2	5:E:98:LEU:H	2.26	0.48
5:E:86:ASP:O	5:E:89:THR:HB	2.13	0.48
5:E:117:MET:SD	5:E:121:ILE:HG13	2.53	0.48
5:E:315:ILE:HG21	8:H:207:LEU:CG	2.42	0.48
7:G:15:PHE:CD1	7:G:30:LEU:HD12	2.48	0.48
7:G:15:PHE:HB3	7:G:30:LEU:HD11	1.94	0.48
7:G:49:LEU:CD2	7:G:51:ASN:HB2	2.43	0.48
8:H:114:ARG:CG	8:H:137:VAL:HB	2.43	0.48
8:H:125:TYR:OH	8:H:162:VAL:N	2.46	0.48
9:N:140:GLN:O	9:N:170:VAL:C	2.51	0.48
9:N:155:THR:N	9:N:158:ASP:OD2	2.36	0.48
10:O:291:LYS:CD	10:O:357:VAL:HG21	2.36	0.48
10:O:555:TRP:HZ3	13:R:27:TRP:HH2	1.60	0.48
11:P:37:ARG:CZ	11:P:79:PHE:HB3	2.43	0.48
1:A:101:GLN:HG2	1:A:134:ILE:CD1	2.43	0.48
1:A:273:GLU:OE1	1:A:282:LEU:HG	2.13	0.48
1:A:380:MET:HA	1:A:383:GLU:HB2	1.94	0.48
2:B:169:GLN:HA	2:B:172:LEU:HD12	1.96	0.48
2:B:290:GLY:O	2:B:293:PRO:HD3	2.13	0.48
2:B:415:LYS:C	2:B:416:ARG:HD2	2.34	0.48
3:C:103:LEU:HD11	3:C:107:LEU:CD2	2.43	0.48
3:C:198:PHE:CB	3:C:234:LEU:HD22	2.43	0.48
3:C:218:HIS:HA	3:C:221:LEU:CD1	2.42	0.48
4:D:361:PHE:HB2	7:G:144:LYS:HZ2	1.78	0.48
4:D:381:VAL:HG11	6:F:235:VAL:HG22	1.94	0.48
5:E:62:LEU:HA	5:E:65:MET:CE	2.43	0.48
5:E:79:GLY:HA3	5:E:137:TYR:CE1	2.48	0.48
5:E:170:ILE:HD13	5:E:181:VAL:HG13	1.95	0.48
6:F:51:ILE:HA	6:F:125:TYR:CE2	2.47	0.48
7:G:136:VAL:HG12	7:G:141:ILE:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:147:GLN:HE21	7:G:150:GLN:HE22	1.61	0.48
7:G:166:ASP:HB2	7:G:170:ILE:HD11	1.95	0.48
8:H:98:TRP:CD1	8:H:101:THR:HB	2.48	0.48
9:N:136:ILE:HG13	9:N:175:GLY:C	2.33	0.48
9:N:140:GLN:NE2	10:O:742:SER:HB2	2.28	0.48
9:N:141:GLN:CG	9:N:171:LEU:CD1	2.84	0.48
10:O:176:PRO:HG2	10:O:181:ILE:HG23	1.93	0.48
10:O:237:GLU:OE2	10:O:293:ASP:OD1	2.30	0.48
10:O:311:MET:O	10:O:315:LEU:HB2	2.12	0.48
10:O:537:VAL:CG2	10:O:553:LEU:HD12	2.43	0.48
10:O:657:MET:HA	10:O:659:LYS:NZ	2.24	0.48
12:Q:86:MET:N	12:Q:87:SER:N	2.57	0.48
1:A:283:THR:HG21	1:A:313:HIS:CG	2.48	0.48
1:A:303:ALA:CA	1:A:306:LEU:HD12	2.40	0.48
1:A:411:ILE:HA	1:A:414:PHE:CD1	2.48	0.48
1:A:504:SER:HA	3:C:214:MET:C	2.33	0.48
2:B:194:LEU:HA	2:B:197:ILE:HB	1.95	0.48
2:B:333:ASN:O	2:B:338:MET:HG2	2.13	0.48
3:C:110:ALA:HA	3:C:113:GLU:OE1	2.13	0.48
3:C:239:GLN:HG3	3:C:241:LEU:CD2	2.43	0.48
3:C:301:SER:HA	3:C:304:LYS:CD	2.41	0.48
3:C:348:PHE:CB	3:C:361:HIS:H	2.21	0.48
5:E:246:TRP:HZ2	6:F:231:LEU:N	2.10	0.48
6:F:73:ILE:N	6:F:85:ASN:O	2.47	0.48
6:F:113:LYS:NZ	6:F:120:GLU:HA	2.29	0.48
7:G:19:ALA:HB1	7:G:51:ASN:HB3	1.95	0.48
10:O:385:CYS:HB3	10:O:427:ASP:CB	2.43	0.48
10:O:397:ASN:HA	10:O:400:LYS:HE3	1.95	0.48
10:O:485:ASP:O	10:O:489:LYS:HG3	2.13	0.48
10:O:564:VAL:CB	13:R:22:PHE:CD1	2.97	0.48
10:O:610:LEU:HD11	10:O:638:PHE:HE1	1.78	0.48
11:P:30:ILE:O	11:P:34:ILE:HG13	2.13	0.48
11:P:57:LEU:HD22	11:P:62:PHE:HD2	1.76	0.48
11:P:101:ASP:OD1	11:P:104:LYS:HD2	2.13	0.48
1:A:100:LEU:O	1:A:103:ILE:HG13	2.14	0.48
1:A:333:ALA:O	1:A:336:THR:N	2.46	0.48
1:A:334:LEU:HD12	1:A:337:PHE:HE1	1.78	0.48
1:A:423:HIS:NE2	1:A:458:LYS:HB2	2.29	0.48
2:B:163:GLU:HB3	2:B:165:TYR:CE2	2.44	0.48
2:B:315:VAL:HG12	2:B:318:TYR:CE2	2.48	0.48
3:C:266:VAL:HA	3:C:269:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:348:PHE:HB2	3:C:360:PHE:CD1	2.49	0.48
4:D:264:LEU:HD13	4:D:264:LEU:O	2.13	0.48
4:D:362:GLU:C	4:D:364:ARG:HH11	2.17	0.48
4:D:394:GLU:HG2	4:D:395:TRP:N	2.28	0.48
5:E:246:TRP:O	5:E:249:THR:HB	2.13	0.48
5:E:250:LEU:HB3	5:E:328:PHE:CZ	2.49	0.48
5:E:322:VAL:CG2	6:F:283:CYS:SG	3.01	0.48
5:E:332:ASN:HA	6:F:268:PRO:CD	2.43	0.48
6:F:217:VAL:O	6:F:221:LEU:N	2.28	0.48
6:F:261:TYR:HH	7:G:106:SER:HB3	1.41	0.48
7:G:36:GLU:O	7:G:38:PRO:HD3	2.13	0.48
7:G:195:ALA:O	7:G:198:HIS:HB3	2.13	0.48
8:H:131:ASP:H	8:H:160:ARG:HD2	1.78	0.48
10:O:286:ILE:HG21	10:O:315:LEU:CB	2.36	0.48
10:O:468:GLU:CD	10:O:471:SER:HB3	2.33	0.48
10:O:566:MET:CE	10:O:574:VAL:HG23	2.42	0.48
10:O:579:THR:O	10:O:582:MET:HB3	2.13	0.48
11:P:7:ILE:HA	11:P:75:VAL:CB	2.40	0.48
11:P:46:LYS:HG3	11:P:62:PHE:CE1	2.39	0.48
11:P:99:LEU:HD22	11:P:100:PRO:CD	2.30	0.48
1:A:175:LEU:CD1	1:A:178:LEU:HD22	2.41	0.48
1:A:177:LYS:O	1:A:180:LYS:HB2	2.13	0.48
1:A:334:LEU:HA	1:A:337:PHE:CE1	2.48	0.48
1:A:342:LEU:HG	1:A:346:VAL:HG23	1.95	0.48
1:A:442:GLN:HE22	1:A:443:LEU:HD23	1.78	0.48
2:B:245:HIS:HB3	2:B:250:GLU:O	2.14	0.48
3:C:198:PHE:HB3	3:C:230:VAL:CG1	2.42	0.48
3:C:341:MET:O	3:C:345:GLY:N	2.46	0.48
5:E:77:VAL:HA	5:E:100:VAL:CG2	2.44	0.48
5:E:109:ALA:N	9:N:122:LYS:HD3	2.29	0.48
5:E:171:ASP:CB	5:E:174:ARG:HD2	2.44	0.48
5:E:331:ILE:C	6:F:268:PRO:HD3	2.33	0.48
6:F:47:VAL:HA	6:F:50:ASN:HD22	1.79	0.48
7:G:41:TYR:HB2	7:G:161:ASP:OD1	2.13	0.48
7:G:42:VAL:CG1	7:G:164:LYS:HG3	2.44	0.48
7:G:89:SER:O	7:G:93:GLN:HG3	2.12	0.48
7:G:111:ILE:O	7:G:151:LEU:HA	2.13	0.48
7:G:113:TYR:HE2	7:G:147:GLN:HA	1.78	0.48
7:G:128:LEU:O	7:G:132:ILE:HG13	2.13	0.48
7:G:199:LYS:NZ	8:H:208:GLU:CG	2.76	0.48
8:H:21:GLU:O	8:H:25:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:6:ARG:HD3	10:O:51:GLU:HB2	1.95	0.48
10:O:16:LYS:NZ	10:O:41:ASP:H	2.11	0.48
10:O:35:TRP:CE3	10:O:104:LEU:HD11	2.46	0.48
10:O:282:CYS:O	10:O:294:MET:CE	2.62	0.48
10:O:485:ASP:CG	10:O:489:LYS:HE3	2.34	0.48
10:O:511:VAL:HG22	13:R:32:LEU:C	2.29	0.48
10:O:528:ALA:H	10:O:586:LEU:HD21	1.78	0.48
10:O:568:TYR:CE2	13:R:21:ARG:HB2	2.48	0.48
10:O:608:LYS:O	10:O:611:THR:HG22	2.13	0.48
10:O:632:ILE:HD11	10:O:636:SER:HB3	1.95	0.48
12:Q:6:VAL:HB	12:Q:29:LEU:CD1	2.12	0.48
13:R:52:LEU:HD13	13:R:60:GLN:CD	2.33	0.48
13:R:91:ARG:HG2	13:R:93:VAL:CG2	2.44	0.48
1:A:242:ILE:HD12	1:A:254:VAL:CG1	2.43	0.48
1:A:277:GLN:HG2	1:A:280:ALA:HA	1.93	0.48
1:A:420:ALA:HB1	1:A:422:MET:CE	2.42	0.48
2:B:132:TYR:CG	2:B:155:LEU:HD13	2.48	0.48
2:B:251:PHE:HA	2:B:254:ALA:CB	2.28	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD22	2.36	0.48
3:C:94:ARG:CA	3:C:131:MET:HG3	2.43	0.48
3:C:322:MET:HA	3:C:325:ARG:CG	2.43	0.48
4:D:403:GLN:O	4:D:406:GLN:HB2	2.13	0.48
5:E:301:ALA:HB2	6:F:304:GLN:NE2	2.29	0.48
6:F:146:ILE:HD11	6:F:149:PRO:CB	2.44	0.48
6:F:273:ASP:HA	6:F:276:LYS:CG	2.43	0.48
7:G:203:LEU:HG	8:H:209:ASN:O	2.13	0.48
8:H:81:ILE:O	8:H:84:ARG:HD3	2.14	0.48
10:O:155:LEU:CD1	10:O:159:LEU:HD22	2.43	0.48
10:O:374:SER:HB3	10:O:378:TYR:CE2	2.49	0.48
10:O:387:ALA:HB3	10:O:388:PRO:HD3	1.95	0.48
10:O:388:PRO:HG3	10:O:425:ILE:CG1	2.39	0.48
10:O:407:THR:HG22	10:O:408:GLU:O	2.14	0.48
10:O:562:GLY:HA3	10:O:577:VAL:N	2.22	0.48
10:O:728:LYS:CB	10:O:730:TYR:CE2	2.96	0.48
11:P:24:VAL:CG1	11:P:28:LYS:HE3	2.44	0.48
13:R:52:LEU:HD13	13:R:60:GLN:HG2	1.94	0.48
1:A:401:LEU:HD12	1:A:402:TYR:CG	2.49	0.48
1:A:433:VAL:O	1:A:437:GLU:HG3	2.13	0.48
1:A:490:MET:HB3	3:C:167:MET:CE	2.43	0.48
1:A:504:SER:O	3:C:215:ALA:HA	2.14	0.48
2:B:10:CYS:HA	2:B:70:LYS:CD	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:438:VAL:HG11	6:F:302:MET:CG	2.38	0.48
3:C:110:ALA:C	3:C:113:GLU:HB3	2.34	0.48
3:C:139:THR:O	3:C:142:HIS:HB2	2.14	0.48
3:C:140:SER:HB3	3:C:180:HIS:CD2	2.48	0.48
3:C:150:LEU:HD21	3:C:190:MET:SD	2.53	0.48
4:D:230:LEU:CD2	4:D:249:LEU:HD13	2.44	0.48
4:D:399:ALA:HB1	6:F:237:LEU:HD22	1.94	0.48
5:E:61:ALA:HA	5:E:95:SER:O	2.14	0.48
5:E:312:ILE:CG2	8:H:207:LEU:HB3	2.36	0.48
6:F:59:ARG:HG3	6:F:64:ARG:O	2.14	0.48
7:G:42:VAL:HG13	7:G:71:ALA:HB2	1.95	0.48
7:G:140:ILE:HA	7:G:158:ILE:HG23	1.96	0.48
9:N:150:MSE:HA	9:N:159:TYR:CE2	2.45	0.48
10:O:16:LYS:HB3	10:O:41:ASP:CA	2.35	0.48
10:O:100:TYR:CE1	12:Q:35:GLY:O	2.63	0.48
10:O:255:HIS:ND1	10:O:256:PRO:HD2	2.28	0.48
10:O:376:VAL:HG21	10:O:424:TYR:HB3	1.95	0.48
10:O:433:LYS:HD3	10:O:518:PRO:HA	1.95	0.48
11:P:1:MET:N	11:P:19:LYS:HE3	2.28	0.48
12:Q:41:LYS:HD2	12:Q:42:GLY:H	1.76	0.48
12:Q:46:LEU:HD13	12:Q:54:LEU:HD22	1.69	0.48
12:Q:49:PHE:HB3	12:Q:54:LEU:HD13	1.94	0.48
1:A:108:PRO:O	1:A:109:THR:OG1	2.21	0.48
1:A:408:ARG:CG	1:A:411:ILE:HD12	2.44	0.48
1:A:431:THR:HG21	1:A:436:LEU:HD23	1.96	0.48
1:A:495:VAL:HG23	1:A:500:ILE:CG2	2.44	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD13	2.43	0.48
2:B:338:MET:HE1	2:B:347:ILE:CG2	2.42	0.48
2:B:442:LEU:HD21	6:F:309:PHE:CE2	2.41	0.48
3:C:387:ASP:HA	3:C:390:LEU:CD1	2.39	0.48
4:D:284:MET:SD	4:D:284:MET:N	2.87	0.48
5:E:81:MET:HG2	5:E:95:SER:HA	1.95	0.48
5:E:170:ILE:HD13	5:E:181:VAL:CG1	2.44	0.48
6:F:48:ILE:O	6:F:51:ILE:HB	2.13	0.48
6:F:142:VAL:O	6:F:149:PRO:HG3	2.14	0.48
7:G:66:LEU:O	7:G:69:LEU:HB3	2.13	0.48
8:H:204:VAL:CG1	8:H:208:GLU:HB3	2.40	0.48
10:O:381:PRO:CG	10:O:384:VAL:N	2.77	0.48
10:O:523:PRO:HD2	10:O:558:TYR:CZ	2.48	0.48
11:P:14:ILE:CD1	11:P:77:LEU:HD22	2.44	0.48
1:A:418:VAL:HG12	2:B:403:ASP:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:47:PRO:CA	2:B:50:ALA:HB3	2.33	0.48
2:B:112:ILE:O	2:B:116:LEU:HG	2.14	0.48
2:B:162:ARG:NE	2:B:164:GLU:HB2	2.29	0.48
2:B:198:TYR:CE2	2:B:221:SER:HB3	2.49	0.48
2:B:236:VAL:HG13	2:B:239:GLU:OE1	2.14	0.48
2:B:263:LYS:O	2:B:267:GLU:HG3	2.14	0.48
2:B:282:LEU:HA	2:B:285:MET:CE	2.44	0.48
2:B:359:LEU:HA	2:B:359:LEU:HD13	1.65	0.48
3:C:47:GLY:CA	3:C:84:PHE:HB2	2.42	0.48
3:C:307:ILE:HG21	3:C:341:MET:HE3	1.96	0.48
3:C:352:ASN:CB	8:H:126:THR:HB	2.44	0.48
4:D:402:ALA:O	4:D:405:ALA:HB3	2.13	0.48
5:E:69:ALA:HB1	5:E:172:PRO:HG3	1.96	0.48
5:E:159:GLN:NE2	5:E:188:THR:H	2.11	0.48
5:E:164:PRO:HB2	5:E:187:ARG:HH12	1.79	0.48
6:F:109:GLU:HA	6:F:112:PHE:CE1	2.49	0.48
7:G:52:VAL:HA	7:G:55:LEU:CB	2.43	0.48
8:H:78:GLY:O	8:H:81:ILE:HB	2.13	0.48
10:O:14:TRP:H	10:O:60:GLU:HG3	1.67	0.48
10:O:192:GLU:OE2	10:O:202:PHE:HB2	2.14	0.48
10:O:279:HIS:C	10:O:310:HIS:ND1	2.67	0.48
10:O:310:HIS:O	10:O:313:GLN:HB2	2.13	0.48
10:O:392:ALA:HB3	10:O:438:MET:HE1	1.94	0.48
10:O:394:TYR:HA	10:O:397:ASN:OD1	2.14	0.48
10:O:455:GLU:OE1	10:O:458:ILE:HD12	2.14	0.48
10:O:501:ILE:HD11	10:O:503:LEU:HD22	1.96	0.48
10:O:720:LYS:O	10:O:723:GLU:HB2	2.14	0.48
11:P:78:ALA:CB	11:P:86:GLU:HB3	2.43	0.48
13:R:37:ILE:HG22	13:R:38:VAL:N	2.28	0.48
13:R:42:CYS:HB2	13:R:79:PHE:HA	1.95	0.48
13:R:77:HIS:CD2	13:R:97:ASP:HB2	2.49	0.48
1:A:128:VAL:HA	1:A:131:TYR:HB3	1.94	0.47
2:B:72:LEU:HD22	2:B:94:GLN:OE1	2.14	0.47
2:B:192:THR:HB	2:B:230:HIS:CD2	2.49	0.47
2:B:381:ASP:HB3	2:B:384:ASP:CB	2.43	0.47
3:C:74:PHE:CE2	3:C:75:GLU:HG2	2.49	0.47
3:C:251:ARG:N	3:C:251:ARG:HD2	2.29	0.47
3:C:263:LEU:HD22	3:C:278:LEU:CD2	2.44	0.47
3:C:354:LYS:HB2	8:H:161:MET:HE3	1.95	0.47
5:E:322:VAL:CB	6:F:279:PHE:CZ	2.93	0.47
6:F:86:SER:HG	6:F:125:TYR:HD1	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:273:ASP:OD1	6:F:276:LYS:NZ	2.42	0.47
7:G:7:PRO:CG	7:G:11:LEU:HD13	2.44	0.47
7:G:62:ALA:HA	7:G:65:GLN:CD	2.34	0.47
8:H:102:VAL:CA	8:H:105:ILE:HG12	2.41	0.47
10:O:146:MET:O	10:O:150:LEU:N	2.43	0.47
10:O:211:PHE:O	10:O:215:THR:HB	2.14	0.47
10:O:506:SER:OG	13:R:28:ASN:C	2.52	0.47
10:O:555:TRP:HE1	10:O:557:HIS:CE1	2.31	0.47
10:O:632:ILE:HB	10:O:638:PHE:CZ	2.49	0.47
11:P:2:ASP:OD1	11:P:19:LYS:HG3	2.13	0.47
12:Q:4:ASP:CG	12:Q:20:ARG:H	1.79	0.47
1:A:205:GLY:HA3	1:A:221:TYR:CE2	2.49	0.47
1:A:221:TYR:HA	1:A:224:ALA:CB	2.44	0.47
1:A:244:VAL:HG12	1:A:248:LEU:HB2	1.97	0.47
1:A:274:ARG:HB3	1:A:277:GLN:CA	2.42	0.47
1:A:449:ILE:HD12	1:A:462:ALA:CA	2.43	0.47
1:A:452:ARG:HD2	3:C:314:PHE:O	2.13	0.47
2:B:28:PRO:O	2:B:31:ASP:CG	2.43	0.47
2:B:256:THR:HA	13:R:62:SER:HB2	1.41	0.47
3:C:3:SER:OG	3:C:4:ALA:N	2.45	0.47
3:C:12:VAL:O	3:C:49:LEU:HD11	2.14	0.47
3:C:341:MET:HA	3:C:344:ASP:CG	2.34	0.47
3:C:376:ILE:HD12	3:C:377:ASP:N	2.29	0.47
4:D:20:LYS:NZ	10:O:601:ASP:OD2	2.46	0.47
5:E:109:ALA:HA	9:N:122:LYS:HB2	1.95	0.47
5:E:127:VAL:HG12	6:F:90:LEU:HB2	1.96	0.47
5:E:242:TRP:CE2	6:F:224:GLN:C	2.72	0.47
6:F:235:VAL:HA	6:F:238:ILE:HB	1.95	0.47
7:G:201:GLN:O	7:G:205:LEU:HG	2.14	0.47
8:H:35:PRO:O	8:H:39:GLN:HG3	2.13	0.47
9:N:127:LYS:HE2	9:N:138:PRO:HB2	1.96	0.47
10:O:284:ASN:O	10:O:288:GLN:HG2	2.13	0.47
10:O:656:SER:O	10:O:658:GLN:CD	2.51	0.47
11:P:6:MET:HG2	11:P:15:PHE:CD1	2.49	0.47
11:P:7:ILE:CG2	11:P:77:LEU:HD13	2.43	0.47
11:P:8:ARG:CG	11:P:13:THR:HG22	2.44	0.47
13:R:77:HIS:CD2	13:R:97:ASP:H	2.32	0.47
1:A:206:ASP:O	1:A:209:LEU:HB2	2.14	0.47
1:A:421:ASP:N	1:A:459:ILE:HG23	2.29	0.47
1:A:466:ASP:OD1	1:A:467:GLN:N	2.48	0.47
1:A:482:PHE:HE2	6:F:295:ILE:CD1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:127:LEU:O	2:B:130:GLU:HB2	2.14	0.47
2:B:393:ILE:HG22	2:B:398:ILE:CG1	2.44	0.47
3:C:73:ASP:HB3	3:C:77:LEU:CB	2.45	0.47
3:C:200:ARG:O	3:C:203:TYR:HB3	2.14	0.47
4:D:48:PHE:O	4:D:51:ALA:HB3	2.14	0.47
4:D:214:LYS:O	4:D:222:ARG:NE	2.46	0.47
4:D:393:PRO:O	4:D:396:THR:HB	2.14	0.47
5:E:106:ARG:CD	9:N:124:GLU:C	2.81	0.47
5:E:254:SER:O	5:E:257:THR:HB	2.14	0.47
6:F:256:ILE:HD13	6:F:256:ILE:N	2.30	0.47
7:G:117:LEU:CD2	7:G:128:LEU:HD13	2.43	0.47
8:H:159:THR:CB	8:H:161:MET:HG2	2.44	0.47
8:H:159:THR:HB	8:H:161:MET:HG2	1.96	0.47
10:O:26:MET:CB	10:O:71:HIS:CE1	2.97	0.47
10:O:218:TYR:HA	10:O:221:GLN:NE2	2.29	0.47
10:O:334:ASN:N	10:O:334:ASN:ND2	2.63	0.47
10:O:387:ALA:HA	10:O:390:LEU:HB2	1.96	0.47
10:O:688:MET:HG3	10:O:731:ILE:HD12	1.95	0.47
11:P:78:ALA:HB1	11:P:86:GLU:HB3	1.97	0.47
1:A:77:VAL:CG1	1:A:389:LEU:HD21	2.44	0.47
1:A:100:LEU:HD13	1:A:118:ALA:CA	2.44	0.47
1:A:135:HIS:HA	1:A:138:LEU:CB	2.44	0.47
1:A:189:LYS:CE	12:Q:71:SER:HB2	2.44	0.47
1:A:355:PHE:HA	1:A:358:LEU:CG	2.44	0.47
1:A:484:ARG:NH2	3:C:203:TYR:HB2	2.30	0.47
2:B:156:GLY:O	2:B:160:LEU:N	2.47	0.47
2:B:192:THR:O	2:B:230:HIS:HB3	2.14	0.47
2:B:303:LYS:CD	2:B:312:THR:HG21	2.44	0.47
2:B:315:VAL:HA	2:B:318:TYR:CG	2.48	0.47
3:C:375:ASN:O	3:C:379:GLU:HG2	2.14	0.47
5:E:35:GLN:NE2	5:E:39:ILE:HD12	2.29	0.47
5:E:44:PRO:HB2	5:E:51:TYR:CG	2.49	0.47
5:E:120:TYR:CE1	6:F:108:LYS:HE3	2.49	0.47
5:E:144:GLY:N	5:E:171:ASP:OD1	2.46	0.47
5:E:155:GLN:CD	5:E:167:ALA:HB2	2.35	0.47
7:G:71:ALA:HB2	7:G:164:LYS:HG3	1.96	0.47
7:G:117:LEU:HD23	7:G:128:LEU:HD13	1.95	0.47
7:G:188:ILE:HG23	8:H:197:LEU:HD22	0.56	0.47
8:H:50:MET:HB3	8:H:82:TRP:NE1	2.30	0.47
8:H:145:VAL:CG2	8:H:160:ARG:HH12	2.27	0.47
10:O:412:GLU:HA	10:O:415:LEU:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:3:VAL:CG2	11:P:5:LEU:HD21	2.45	0.47
11:P:9:ARG:NH2	15:P:259:HOH:O	2.46	0.47
13:R:53:CYS:CB	13:R:80:HIS:HD1	2.27	0.47
1:A:119:LEU:O	1:A:122:VAL:HB	2.14	0.47
1:A:138:LEU:HD21	1:A:160:PRO:CD	2.43	0.47
1:A:301:GLN:HA	1:A:304:LYS:HB2	1.96	0.47
1:A:309:ALA:HB3	1:A:352:PHE:CD1	2.49	0.47
1:A:354:LEU:CA	1:A:357:GLU:HG3	2.41	0.47
1:A:385:LYS:HD3	1:A:402:TYR:HE2	1.78	0.47
1:A:502:VAL:HG12	1:A:503:LYS:O	2.14	0.47
2:B:78:ILE:O	2:B:82:LEU:N	2.48	0.47
2:B:94:GLN:HA	2:B:97:THR:HG23	1.96	0.47
2:B:147:LEU:HD12	2:B:148:TRP:N	2.30	0.47
2:B:170:LYS:CA	2:B:173:ARG:HH21	2.27	0.47
2:B:317:ALA:CA	2:B:320:ASN:HB2	2.36	0.47
3:C:121:ILE:HG22	3:C:125:LYS:HZ2	1.80	0.47
3:C:179:LYS:CA	3:C:182:LEU:HD12	2.40	0.47
4:D:114:TYR:O	4:D:119:ASP:N	2.45	0.47
5:E:240:LEU:HA	5:E:243:ASN:ND2	2.27	0.47
5:E:255:LEU:HD11	5:E:318:LEU:HD12	1.96	0.47
5:E:280:LEU:HD12	6:F:303:ASN:HD21	1.80	0.47
6:F:55:TRP:CD1	6:F:127:THR:HG21	2.49	0.47
6:F:81:ILE:HD11	6:F:169:GLU:OE1	2.14	0.47
7:G:188:ILE:HG23	8:H:197:LEU:CG	2.33	0.47
8:H:134:ALA:HB1	8:H:139:LEU:O	2.15	0.47
10:O:344:LEU:HA	10:O:347:HIS:HB3	1.97	0.47
10:O:407:THR:HB	10:O:410:GLU:HB2	1.95	0.47
10:O:470:THR:OG1	10:O:471:SER:N	2.48	0.47
10:O:487:ASN:ND2	10:O:507:PHE:HB3	2.28	0.47
10:O:720:LYS:O	10:O:724:VAL:HG23	2.14	0.47
11:P:20:GLU:HB3	11:P:58:GLY:CA	2.45	0.47
11:P:43:ARG:HG3	11:P:80:ARG:HE	1.80	0.47
13:R:42:CYS:CB	13:R:49:ILE:HD13	2.44	0.47
13:R:75:CYS:HA	13:R:99:ARG:HB2	1.97	0.47
1:A:170:THR:O	1:A:173:LYS:HB2	2.14	0.47
1:A:208:TYR:CB	1:A:217:ALA:HB2	2.44	0.47
1:A:245:SER:OG	1:A:248:LEU:HD23	2.14	0.47
1:A:326:ALA:HA	1:A:352:PHE:HZ	1.79	0.47
1:A:353:LYS:O	1:A:357:GLU:HG3	2.15	0.47
1:A:385:LYS:HD3	1:A:402:TYR:CE2	2.50	0.47
1:A:399:ARG:O	1:A:403:THR:OG1	2.10	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:VAL:HG12	2:B:403:ASP:CA	2.44	0.47
1:A:471:THR:HA	1:A:474:LYS:HD2	1.97	0.47
2:B:265:TYR:CD2	2:B:273:ARG:HD2	2.50	0.47
2:B:357:GLN:O	2:B:361:LYS:HD2	2.13	0.47
3:C:51:VAL:HB	3:C:93:ILE:CD1	2.43	0.47
3:C:90:GLY:O	3:C:130:LYS:HE3	2.13	0.47
3:C:217:SER:O	3:C:221:LEU:N	2.47	0.47
3:C:353:GLN:HE22	8:H:129:ILE:HD12	1.78	0.47
5:E:31:TYR:CE2	5:E:131:GLU:HG3	2.49	0.47
5:E:59:ALA:HB3	6:F:46:LEU:CB	2.38	0.47
5:E:269:LEU:HD21	5:E:307:SER:HB2	1.97	0.47
6:F:67:GLN:CG	6:F:98:ILE:HD11	2.43	0.47
6:F:143:CYS:CA	6:F:149:PRO:HG3	2.40	0.47
6:F:191:ALA:HB3	6:F:196:GLU:OE2	2.15	0.47
6:F:254:HIS:HD1	7:G:162:ILE:HD13	1.78	0.47
7:G:47:LEU:HA	7:G:52:VAL:HB	1.96	0.47
7:G:142:GLN:CB	7:G:156:PHE:HB3	2.45	0.47
7:G:146:ASP:OD2	7:G:151:LEU:HD12	2.14	0.47
9:N:111:LYS:NZ	9:N:113:ILE:HD11	2.29	0.47
10:O:207:PHE:CD2	10:O:258:SER:OG	2.64	0.47
10:O:508:GLN:CD	13:R:28:ASN:HB2	2.35	0.47
10:O:610:LEU:HG	10:O:631:ASP:O	2.14	0.47
10:O:731:ILE:HA	10:O:744:VAL:H	1.80	0.47
11:P:73:ALA:HB1	15:P:252:HOH:O	2.14	0.47
12:Q:46:LEU:HD11	12:Q:54:LEU:HD13	1.97	0.47
1:A:113:GLU:OE2	1:A:116:LYS:NZ	2.38	0.47
1:A:146:GLN:HA	1:A:149:PRO:HD2	1.96	0.47
1:A:238:CYS:SG	1:A:261:ALA:HB2	2.54	0.47
1:A:305:CYS:O	1:A:308:LEU:HB2	2.15	0.47
1:A:354:LEU:O	1:A:358:LEU:HG	2.15	0.47
1:A:388:LEU:HA	1:A:394:LEU:CD1	2.44	0.47
2:B:51:LEU:O	2:B:55:GLN:HB2	2.15	0.47
2:B:169:GLN:HA	2:B:172:LEU:HG	1.95	0.47
3:C:77:LEU:O	3:C:81:VAL:HG23	2.14	0.47
3:C:196:LYS:HG2	3:C:198:PHE:CZ	2.49	0.47
3:C:259:ALA:O	3:C:262:GLU:HG3	2.15	0.47
3:C:353:GLN:HB3	8:H:128:ILE:HA	1.96	0.47
5:E:65:MET:HA	5:E:96:PHE:HA	1.97	0.47
5:E:123:ASN:CB	6:F:111:GLN:HE22	2.23	0.47
5:E:144:GLY:HA2	5:E:171:ASP:CA	2.38	0.47
5:E:147:LEU:CD1	5:E:155:GLN:HB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:161:PHE:HB3	5:E:162:GLN:HG3	1.94	0.47
5:E:164:PRO:CB	5:E:187:ARG:HH12	2.27	0.47
5:E:258:ASN:HA	5:E:260:ASP:OD1	2.15	0.47
6:F:31:MET:HG3	6:F:32:ALA:H	1.78	0.47
6:F:100:ILE:HB	6:F:141:GLN:OE1	2.15	0.47
6:F:201:ASP:CG	6:F:219:GLU:HA	2.34	0.47
7:G:23:SER:N	7:G:26:ALA:HB3	2.30	0.47
8:H:90:TYR:HD1	8:H:110:ARG:HD2	1.79	0.47
8:H:133:PHE:HA	8:H:136:PHE:CG	2.50	0.47
9:N:115:ILE:CG2	9:N:129:ARG:HE	2.28	0.47
10:O:16:LYS:HD3	10:O:38:ARG:HA	1.96	0.47
10:O:22:LYS:HB3	10:O:67:ASN:C	2.34	0.47
10:O:32:ARG:O	10:O:35:TRP:HB2	2.15	0.47
10:O:147:TRP:HA	10:O:150:LEU:HB3	1.96	0.47
10:O:222:GLU:HG3	10:O:242:ARG:HE	1.76	0.47
10:O:260:THR:HG22	10:O:263:ILE:CG1	2.44	0.47
10:O:344:LEU:CD2	10:O:421:VAL:HG22	2.26	0.47
10:O:389:GLU:O	10:O:393:LYS:HG3	2.13	0.47
10:O:411:VAL:HG12	10:O:415:LEU:CD1	2.43	0.47
10:O:508:GLN:H	13:R:29:ALA:H	1.61	0.47
10:O:577:VAL:HG12	10:O:653:ILE:HD11	1.95	0.47
10:O:584:VAL:HG21	10:O:609:GLU:HB2	1.97	0.47
10:O:615:LYS:CG	10:O:628:GLU:HB3	2.44	0.47
10:O:641:ASN:OD1	10:O:642:MET:N	2.48	0.47
11:P:7:ILE:HG22	11:P:77:LEU:HD13	1.97	0.47
11:P:44:LEU:O	11:P:50:LEU:HD22	2.15	0.47
11:P:45:TYR:CD1	11:P:50:LEU:HA	2.49	0.47
12:Q:86:MET:CB	12:Q:87:SER:N	2.54	0.47
13:R:20:LYS:HE2	13:R:22:PHE:CZ	2.50	0.47
13:R:88:LEU:HD13	13:R:94:CYS:CB	2.28	0.47
1:A:186:LYS:HA	1:A:189:LYS:HD2	1.97	0.47
1:A:491:LEU:HD23	3:C:167:MET:HE3	1.96	0.47
2:B:130:GLU:O	2:B:134:THR:HG23	2.14	0.47
2:B:290:GLY:C	2:B:293:PRO:HD3	2.35	0.47
2:B:393:ILE:N	2:B:398:ILE:HD13	2.30	0.47
3:C:30:LYS:CA	3:C:103:LEU:HB2	2.44	0.47
3:C:94:ARG:NH1	3:C:138:LEU:O	2.48	0.47
4:D:364:ARG:C	4:D:368:PRO:HB2	2.34	0.47
5:E:35:GLN:HE22	5:E:86:ASP:HA	1.79	0.47
5:E:49:HIS:HB2	5:E:193:TYR:CE2	2.49	0.47
5:E:80:LEU:HA	5:E:135:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:104:GLU:O	5:E:148:SER:OG	2.23	0.47
5:E:174:ARG:O	5:E:178:ALA:HB2	2.13	0.47
6:F:43:LEU:CB	6:F:84:MET:HE2	2.39	0.47
6:F:59:ARG:HA	6:F:64:ARG:O	2.15	0.47
6:F:239:LEU:HD11	7:G:175:GLN:CB	2.39	0.47
7:G:42:VAL:HA	7:G:67:LEU:CD1	2.45	0.47
8:H:133:PHE:O	8:H:137:VAL:HG22	2.15	0.47
9:N:144:ILE:CD1	10:O:689:LYS:C	2.83	0.47
10:O:38:ARG:CZ	10:O:101:MET:CE	2.90	0.47
10:O:105:TYR:OH	10:O:108:LEU:HD23	2.15	0.47
10:O:393:LYS:CA	10:O:396:ASP:HB2	2.44	0.47
10:O:518:PRO:C	10:O:519:LEU:HD12	2.34	0.47
10:O:733:ARG:HD2	10:O:741:TYR:CE1	2.50	0.47
11:P:18:ALA:HA	15:P:274:HOH:O	2.14	0.47
1:A:108:PRO:HB3	1:A:111:ARG:CZ	2.45	0.47
1:A:235:ILE:HG13	1:A:271:ARG:NH2	2.29	0.47
1:A:416:PRO:HG2	1:A:417:TYR:CE2	2.50	0.47
1:A:481:GLU:OE1	1:A:484:ARG:HD3	2.15	0.47
2:B:143:LYS:NZ	10:O:407:THR:HG22	2.27	0.47
2:B:255:HIS:CE1	13:R:62:SER:H	2.31	0.47
2:B:426:LYS:HD2	2:B:429:ASN:CB	2.41	0.47
3:C:23:GLN:HB3	3:C:58:VAL:CG1	2.45	0.47
3:C:34:LEU:O	3:C:42:LEU:HD21	2.15	0.47
3:C:210:THR:CA	3:C:245:THR:HG22	2.45	0.47
3:C:381:LEU:O	3:C:384:ILE:HB	2.14	0.47
3:C:398:THR:HG21	7:G:213:VAL:CB	2.44	0.47
4:D:226:LEU:HD21	4:D:255:CYS:SG	2.55	0.47
5:E:56:LYS:H	5:E:89:THR:CG2	2.27	0.47
5:E:123:ASN:HB3	6:F:104:TYR:HE1	1.80	0.47
5:E:255:LEU:HG	5:E:321:GLN:CG	2.36	0.47
6:F:57:ARG:O	6:F:61:GLN:HG3	2.15	0.47
6:F:103:GLU:HA	6:F:106:TYR:CD2	2.42	0.47
6:F:130:PRO:C	6:F:153:LYS:HE3	2.36	0.47
6:F:239:LEU:HD11	7:G:172:ARG:HH21	1.79	0.47
7:G:42:VAL:CG2	7:G:163:ARG:H	2.26	0.47
7:G:64:LEU:HD12	7:G:67:LEU:HD23	1.96	0.47
10:O:10:PHE:CB	10:O:56:ARG:NH1	2.74	0.47
10:O:42:ILE:C	10:O:108:LEU:HD22	2.31	0.47
10:O:103:CYS:SG	12:Q:31:ALA:O	2.73	0.47
10:O:147:TRP:O	10:O:151:MET:N	2.48	0.47
10:O:202:PHE:O	10:O:206:ILE:CA	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:441:LYS:HB3	10:O:447:LEU:HD12	1.95	0.47
10:O:503:LEU:HG	13:R:26:LYS:CB	2.45	0.47
10:O:722:ILE:HG21	10:O:741:TYR:HE2	1.71	0.47
11:P:11:LYS:HG3	15:P:306:HOH:O	2.14	0.47
11:P:28:LYS:NZ	11:P:43:ARG:HA	2.29	0.47
11:P:43:ARG:HG3	11:P:80:ARG:HG3	1.96	0.47
12:Q:86:MET:CE	12:Q:91:LEU:N	2.76	0.47
13:R:49:ILE:HG13	13:R:68:CYS:H	1.79	0.47
1:A:376:SER:HA	1:A:379:LYS:CB	2.45	0.47
1:A:432:THR:O	1:A:436:LEU:N	2.18	0.47
1:A:449:ILE:CD1	1:A:460:LEU:HD21	2.44	0.47
2:B:93:LYS:O	2:B:97:THR:HG23	2.14	0.47
2:B:228:ILE:HG23	2:B:229:PRO:O	2.15	0.47
2:B:260:GLU:O	2:B:263:LYS:HB2	2.14	0.47
2:B:389:LEU:O	2:B:393:ILE:HG23	2.14	0.47
3:C:120:GLY:HA2	3:C:124:LEU:HD13	1.97	0.47
3:C:326:VAL:CG1	3:C:328:LEU:HD21	2.45	0.47
3:C:333:GLU:HA	3:C:336:LYS:CG	2.44	0.47
4:D:282:ALA:O	4:D:290:LYS:NZ	2.32	0.47
4:D:316:TYR:CZ	7:G:145:LEU:HB2	2.40	0.47
5:E:31:TYR:HE1	5:E:84:LYS:HB3	1.78	0.47
5:E:84:LYS:HE2	5:E:91:ILE:HG21	1.97	0.47
6:F:255:GLU:OE2	6:F:258:ARG:NH2	2.48	0.47
8:H:119:ALA:O	8:H:123:GLN:HG3	2.14	0.47
10:O:28:GLU:HA	10:O:30:VAL:HA	1.97	0.47
10:O:420:THR:O	10:O:423:LYS:NZ	2.44	0.47
10:O:479:ASP:OD2	10:O:511:VAL:HG23	2.15	0.47
10:O:522:ALA:HB3	10:O:556:LEU:HD21	1.96	0.47
10:O:573:TYR:HB3	10:O:650:LYS:CB	2.43	0.47
10:O:584:VAL:O	10:O:587:ALA:HB3	2.14	0.47
11:P:11:LYS:HB2	15:P:245:HOH:O	2.14	0.47
11:P:52:ASP:HB2	11:P:55:LYS:CD	2.45	0.47
12:Q:46:LEU:HD13	12:Q:49:PHE:C	2.36	0.47
1:A:96:ARG:O	1:A:100:LEU:HG	2.16	0.46
1:A:121:PHE:HD1	1:A:124:ARG:HD2	1.80	0.46
1:A:282:LEU:HD23	1:A:285:LEU:CD1	2.45	0.46
1:A:339:ARG:HB2	1:A:370:TYR:CE1	2.50	0.46
1:A:388:LEU:HB2	1:A:394:LEU:CB	2.35	0.46
1:A:388:LEU:CD1	1:A:398:VAL:HB	2.44	0.46
1:A:491:LEU:HD23	3:C:167:MET:CE	2.45	0.46
2:B:76:ILE:CD1	2:B:91:ARG:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:215:LYS:O	2:B:219:GLU:HG3	2.16	0.46
2:B:358:VAL:HA	2:B:361:LYS:CD	2.46	0.46
3:C:125:LYS:HA	3:C:128:ILE:CB	2.38	0.46
3:C:306:ASN:HB3	3:C:326:VAL:HG12	1.96	0.46
3:C:369:ASN:CB	3:C:371:ALA:HB3	2.43	0.46
5:E:209:ASN:OD1	5:E:210:LYS:N	2.48	0.46
6:F:83:VAL:HG12	6:F:152:LEU:HD12	1.97	0.46
8:H:93:ILE:HG23	8:H:106:MET:HB3	1.97	0.46
10:O:84:LEU:HD21	10:O:162:MET:CB	2.44	0.46
10:O:350:PHE:HB3	10:O:354:ILE:CD1	2.45	0.46
10:O:505:ILE:HD13	10:O:532:GLU:OE1	2.15	0.46
10:O:614:ILE:HD11	10:O:638:PHE:CE1	2.50	0.46
10:O:653:ILE:O	10:O:655:THR:N	2.49	0.46
11:P:10:HIS:HB2	15:P:238:HOH:O	2.15	0.46
11:P:20:GLU:HB3	11:P:58:GLY:HA3	1.97	0.46
1:A:112:VAL:O	1:A:116:LYS:HG3	2.14	0.46
1:A:177:LYS:HA	1:A:180:LYS:CG	2.45	0.46
2:B:40:LYS:HD2	2:B:53:SER:OG	2.15	0.46
2:B:110:LYS:HA	2:B:113:ASN:ND2	2.25	0.46
2:B:111:SER:O	2:B:115:ILE:HG13	2.15	0.46
2:B:214:LEU:HD23	2:B:217:LEU:CD1	2.44	0.46
2:B:286:LEU:HD21	2:B:350:LEU:CD2	2.45	0.46
2:B:382:VAL:HA	2:B:385:VAL:CB	2.45	0.46
2:B:417:GLY:HA2	2:B:420:ARG:NH2	2.30	0.46
3:C:268:SER:HA	3:C:305:LYS:NZ	2.31	0.46
4:D:92:ILE:HD13	4:D:103:VAL:HG22	1.97	0.46
4:D:316:TYR:OH	7:G:145:LEU:HG	2.16	0.46
5:E:142:GLY:N	5:E:172:PRO:HG2	2.27	0.46
5:E:240:LEU:HD23	5:E:243:ASN:ND2	2.26	0.46
5:E:319:MET:HE1	8:H:204:VAL:N	2.30	0.46
5:E:322:VAL:CG2	6:F:279:PHE:CZ	2.96	0.46
6:F:121:PHE:CZ	6:F:142:VAL:HG22	2.50	0.46
7:G:14:GLN:O	7:G:18:LEU:HG	2.15	0.46
7:G:128:LEU:HG	7:G:132:ILE:HD11	1.97	0.46
8:H:139:LEU:HB3	8:H:143:GLU:CG	2.45	0.46
10:O:179:LYS:HA	10:O:182:HIS:HB3	1.98	0.46
10:O:253:TYR:O	10:O:259:TYR:CE1	2.68	0.46
10:O:340:VAL:CG2	10:O:387:ALA:HA	2.45	0.46
10:O:381:PRO:HD2	10:O:384:VAL:HG23	1.97	0.46
10:O:526:THR:OG1	10:O:604:GLN:NE2	2.44	0.46
10:O:700:ILE:CG2	10:O:718:ILE:CD1	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:9:ARG:HD3	11:P:10:HIS:N	2.30	0.46
11:P:24:VAL:CB	11:P:53:ASP:HA	2.38	0.46
11:P:66:THR:HA	15:P:202:HOH:O	2.14	0.46
11:P:68:ARG:HB3	11:P:69:PRO:CD	2.45	0.46
12:Q:5:PHE:HB2	12:Q:42:GLY:O	2.15	0.46
1:A:128:VAL:HG13	1:A:131:TYR:HB3	1.96	0.46
1:A:501:HIS:CB	3:C:212:PRO:HB2	2.37	0.46
2:B:297:GLN:HG2	13:R:67:GLU:OE1	2.15	0.46
2:B:342:PHE:HB3	2:B:346:HIS:CD2	2.50	0.46
3:C:28:ILE:HG22	3:C:98:ASP:CB	2.35	0.46
3:C:83:LEU:O	3:C:86:SER:N	2.47	0.46
3:C:125:LYS:CA	3:C:128:ILE:HB	2.40	0.46
5:E:129:ARG:HH22	6:F:87:PHE:HD2	1.63	0.46
5:E:150:ILE:O	5:E:153:SER:HB2	2.15	0.46
5:E:268:ASP:CG	5:E:272:LYS:HE3	2.35	0.46
6:F:72:LEU:HD23	6:F:86:SER:CB	2.45	0.46
6:F:253:ASN:HB3	6:F:256:ILE:CD1	2.44	0.46
6:F:307:ASN:HA	6:F:316:GLN:OE1	2.15	0.46
7:G:7:PRO:HB3	7:G:38:PRO:CD	2.44	0.46
7:G:12:LEU:O	7:G:16:ILE:HG13	2.15	0.46
7:G:96:LEU:HA	7:G:99:LEU:CD1	2.44	0.46
7:G:199:LYS:CE	8:H:209:ASN:O	2.57	0.46
10:O:44:ALA:O	10:O:53:LEU:CD2	2.57	0.46
10:O:337:THR:O	10:O:341:GLU:CG	2.61	0.46
10:O:388:PRO:CB	10:O:425:ILE:HG23	2.45	0.46
10:O:415:LEU:HD23	10:O:418:PHE:CE2	2.49	0.46
10:O:432:GLN:HG3	10:O:469:PHE:CE2	2.50	0.46
11:P:43:ARG:HB3	11:P:50:LEU:CD2	2.45	0.46
12:Q:76:GLU:HG3	15:Q:112:HOH:O	2.15	0.46
13:R:88:LEU:CD2	13:R:100:GLU:HG2	2.46	0.46
1:A:172:LYS:O	1:A:176:LEU:HD23	2.15	0.46
1:A:243:LYS:HA	1:A:246:VAL:HG23	1.96	0.46
1:A:404:GLN:HA	1:A:407:ASN:ND2	2.25	0.46
1:A:424:ARG:O	1:A:427:ALA:HB3	2.15	0.46
1:A:476:LEU:O	1:A:480:LYS:HG3	2.15	0.46
2:B:99:ILE:CG2	2:B:100:ARG:HG3	2.37	0.46
2:B:132:TYR:CE1	2:B:154:LYS:HE2	2.50	0.46
3:C:52:GLN:CA	3:C:91:GLU:HB2	2.31	0.46
3:C:103:LEU:HG	3:C:107:LEU:HD23	1.97	0.46
3:C:336:LYS:HA	3:C:339:LEU:CD2	2.45	0.46
4:D:52:MET:HG3	4:D:66:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:123:ALA:HB1	4:D:154:LEU:HD22	1.97	0.46
4:D:377:LEU:CD1	6:F:263:LEU:HD11	2.32	0.46
5:E:109:ALA:HB1	9:N:125:ARG:HB2	1.95	0.46
5:E:241:LEU:HD23	6:F:200:VAL:CG1	2.46	0.46
6:F:109:GLU:HB2	6:F:113:LYS:HG2	1.98	0.46
7:G:96:LEU:HG	7:G:99:LEU:HD11	1.96	0.46
7:G:122:MET:HE3	7:G:127:GLU:HG2	1.97	0.46
8:H:50:MET:HE1	8:H:78:GLY:CA	2.46	0.46
8:H:63:ALA:O	8:H:67:ALA:HB3	2.16	0.46
10:O:148:ARG:O	10:O:151:MET:HB2	2.16	0.46
10:O:308:LEU:C	10:O:312:ILE:HD12	2.35	0.46
10:O:333:GLU:CG	10:O:338:LEU:HD11	2.45	0.46
10:O:395:CYS:CB	10:O:399:LEU:HD12	2.38	0.46
10:O:411:VAL:O	10:O:415:LEU:HG	2.15	0.46
10:O:435:TYR:HA	10:O:438:MET:HB2	1.97	0.46
10:O:586:LEU:HA	10:O:589:ASN:ND2	2.25	0.46
11:P:47:ASP:HA	15:P:305:HOH:O	2.16	0.46
12:Q:43:ARG:CZ	12:Q:43:ARG:HA	2.46	0.46
13:R:42:CYS:HA	13:R:79:PHE:CD1	2.50	0.46
13:R:80:HIS:O	13:R:84:ILE:HG22	2.15	0.46
1:A:376:SER:HA	1:A:379:LYS:HB3	1.98	0.46
1:A:381:LEU:HD21	1:A:405:ILE:HG21	1.97	0.46
2:B:157:LYS:CD	2:B:160:LEU:HD11	2.46	0.46
2:B:246:LEU:HD21	2:B:342:PHE:CE1	2.50	0.46
2:B:283:ALA:O	2:B:287:MET:N	2.47	0.46
2:B:424:LEU:HD22	5:E:266:VAL:CB	2.45	0.46
3:C:13:ARG:HG2	3:C:45:VAL:HB	1.97	0.46
3:C:30:LYS:HB3	3:C:99:THR:CG2	2.37	0.46
5:E:318:LEU:CB	6:F:286:VAL:HG11	2.45	0.46
6:F:67:GLN:HG2	6:F:98:ILE:CD1	2.45	0.46
8:H:142:GLU:HG3	8:H:145:VAL:HG21	1.97	0.46
9:N:171:LEU:H	10:O:691:ARG:HB2	1.79	0.46
10:O:30:VAL:HB	10:O:34:THR:OG1	2.15	0.46
10:O:35:TRP:HZ2	12:Q:35:GLY:CA	2.29	0.46
10:O:70:ARG:HB3	10:O:74:LYS:CG	2.43	0.46
10:O:113:ILE:HB	10:O:117:LYS:HE3	1.97	0.46
10:O:400:LYS:CD	10:O:404:LYS:H	2.28	0.46
10:O:496:ASN:ND2	10:O:498:ASP:HB3	2.30	0.46
10:O:696:HIS:HB3	10:O:739:ASP:HA	1.93	0.46
12:Q:41:LYS:CE	12:Q:44:ILE:N	2.73	0.46
12:Q:41:LYS:HZ3	12:Q:43:ARG:CA	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:LEU:HD12	1:A:384:MET:CE	2.46	0.46
1:A:408:ARG:HG3	1:A:411:ILE:HD12	1.97	0.46
1:A:417:TYR:HA	2:B:402:ILE:O	2.16	0.46
2:B:133:GLU:OE2	2:B:134:THR:HG23	2.15	0.46
2:B:162:ARG:HD3	2:B:164:GLU:N	2.31	0.46
2:B:163:GLU:OE2	2:B:203:GLN:HG3	2.16	0.46
2:B:216:ALA:HA	2:B:219:GLU:OE1	2.15	0.46
2:B:379:ASN:O	2:B:380:ILE:HD13	2.15	0.46
2:B:438:VAL:HG11	6:F:302:MET:HB3	1.98	0.46
3:C:21:MET:HB3	3:C:54:HIS:CE1	2.50	0.46
3:C:28:ILE:CG2	3:C:98:ASP:HB2	2.38	0.46
3:C:191:ILE:HG22	3:C:195:LEU:CD1	2.45	0.46
3:C:233:ILE:CB	3:C:301:SER:HB3	2.45	0.46
4:D:377:LEU:HD11	6:F:263:LEU:HD11	1.80	0.46
5:E:234:ASP:CA	6:F:49:LEU:HD22	2.46	0.46
5:E:272:LYS:O	5:E:275:GLN:HG2	2.15	0.46
5:E:331:ILE:HG22	5:E:331:ILE:O	2.15	0.46
6:F:67:GLN:NE2	6:F:98:ILE:HD11	2.31	0.46
6:F:114:GLN:HB3	9:N:133:LYS:N	2.30	0.46
7:G:41:TYR:HB3	7:G:70:PHE:CB	2.44	0.46
8:H:142:GLU:N	8:H:142:GLU:OE1	2.48	0.46
9:N:136:ILE:HG13	9:N:175:GLY:HA3	1.97	0.46
10:O:16:LYS:CB	10:O:41:ASP:CA	2.92	0.46
10:O:69:VAL:O	10:O:73:HIS:N	2.48	0.46
10:O:107:TYR:CB	12:Q:96:TYR:CA	2.93	0.46
10:O:275:LEU:HD21	10:O:306:THR:OG1	2.13	0.46
10:O:282:CYS:HB2	10:O:307:GLY:O	2.15	0.46
10:O:288:GLN:C	10:O:290:LYS:NZ	2.60	0.46
10:O:336:PRO:CA	10:O:390:LEU:HB3	2.46	0.46
10:O:551:ARG:CG	13:R:32:LEU:HD13	2.37	0.46
10:O:732:GLU:CB	10:O:744:VAL:HG21	2.45	0.46
1:A:392:MET:O	1:A:396:PRO:HD3	2.15	0.46
1:A:450:SER:O	1:A:463:ARG:HA	2.16	0.46
2:B:34:ASN:OD1	2:B:60:LEU:HB2	2.15	0.46
2:B:167:LYS:O	2:B:170:LYS:HE3	2.16	0.46
3:C:48:ALA:N	3:C:88:CYS:HB2	2.29	0.46
4:D:42:LEU:HD12	4:D:45:LEU:HD12	1.98	0.46
5:E:92:ILE:HG23	5:E:94:ASP:O	2.15	0.46
5:E:333:ILE:HA	6:F:267:LEU:HD13	1.97	0.46
7:G:76:PRO:HD3	7:G:100:THR:HG21	1.98	0.46
9:N:161:ILE:HG23	9:N:165:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:340:VAL:HG22	10:O:387:ALA:HA	1.98	0.46
10:O:385:CYS:CA	10:O:388:PRO:HD2	2.43	0.46
10:O:392:ALA:HB3	10:O:438:MET:CE	2.46	0.46
10:O:440:ALA:O	10:O:445:HIS:NE2	2.48	0.46
10:O:501:ILE:HG13	10:O:503:LEU:HD22	1.98	0.46
10:O:529:ILE:CG2	10:O:533:LEU:HB2	2.44	0.46
11:P:43:ARG:HG3	11:P:80:ARG:HG2	1.97	0.46
11:P:99:LEU:HD13	11:P:100:PRO:O	2.15	0.46
12:Q:86:MET:CE	12:Q:91:LEU:H	2.29	0.46
1:A:104:ALA:HB1	1:A:111:ARG:HA	1.97	0.46
1:A:129:ASP:O	1:A:132:GLU:HB2	2.16	0.46
1:A:435:ALA:O	1:A:439:GLU:HG3	2.15	0.46
2:B:165:TYR:O	2:B:169:GLN:N	2.23	0.46
2:B:298:GLU:HB2	2:B:302:TYR:CE2	2.51	0.46
3:C:11:SER:HB2	3:C:54:HIS:NE2	2.30	0.46
3:C:32:GLY:HA2	3:C:42:LEU:CD1	2.39	0.46
3:C:176:TYR:HA	3:C:180:HIS:ND1	2.30	0.46
3:C:263:LEU:HA	3:C:266:VAL:HG23	1.97	0.46
5:E:104:GLU:CD	5:E:148:SER:HB3	2.36	0.46
5:E:242:TRP:HH2	6:F:224:GLN:NE2	2.14	0.46
5:E:260:ASP:OD1	5:E:261:TYR:N	2.47	0.46
6:F:304:GLN:HA	6:F:307:ASN:ND2	2.26	0.46
7:G:110:CYS:HB2	7:G:151:LEU:CD1	2.42	0.46
8:H:37:TYR:HD2	8:H:64:ILE:HG21	1.81	0.46
8:H:50:MET:HE1	8:H:78:GLY:HA2	1.97	0.46
8:H:99:SER:HA	8:H:103:GLN:HB3	1.98	0.46
10:O:9:ASP:N	10:O:56:ARG:HH11	2.08	0.46
10:O:16:LYS:CB	10:O:41:ASP:CG	2.59	0.46
10:O:335:MET:HG2	10:O:338:LEU:HD21	1.98	0.46
10:O:344:LEU:HA	10:O:347:HIS:CB	2.45	0.46
10:O:390:LEU:O	10:O:394:TYR:HB2	2.16	0.46
10:O:401:LYS:HA	10:O:449:MET:HE2	1.96	0.46
10:O:513:GLN:O	10:O:516:ALA:N	2.45	0.46
10:O:587:ALA:HB1	10:O:599:LEU:CD1	2.46	0.46
11:P:3:VAL:HG23	11:P:5:LEU:CD1	2.44	0.46
12:Q:46:LEU:CG	12:Q:54:LEU:HD21	2.46	0.46
1:A:440:LEU:HD23	1:A:443:LEU:HD12	1.97	0.46
2:B:24:SER:N	10:O:652:LYS:HZ3	2.14	0.46
2:B:294:PHE:CD2	2:B:300:LYS:HA	2.50	0.46
2:B:387:SER:O	2:B:391:GLN:HG3	2.16	0.46
3:C:116:GLN:HB3	3:C:117:PRO:CD	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:283:SER:HA	3:C:286:PHE:HD2	1.81	0.46
5:E:84:LYS:CE	5:E:91:ILE:HG21	2.46	0.46
5:E:170:ILE:HG12	5:E:183:LEU:HA	1.97	0.46
5:E:246:TRP:CH2	6:F:231:LEU:CB	2.78	0.46
6:F:41:VAL:HG12	6:F:74:GLY:O	2.16	0.46
6:F:72:LEU:O	6:F:122:LEU:HB3	2.16	0.46
6:F:241:TYR:OH	6:F:251:PRO:HD3	2.08	0.46
7:G:42:VAL:CB	7:G:163:ARG:H	2.29	0.46
7:G:92:GLN:HG2	7:G:95:LYS:HZ3	1.80	0.46
7:G:161:ASP:H	7:G:163:ARG:HH22	1.62	0.46
7:G:166:ASP:HB2	7:G:170:ILE:CD1	2.46	0.46
8:H:120:LEU:HD12	8:H:123:GLN:OE1	2.16	0.46
10:O:21:ILE:C	10:O:25:VAL:HG12	2.30	0.46
10:O:522:ALA:CB	10:O:558:TYR:HB2	2.45	0.46
10:O:610:LEU:HD23	10:O:631:ASP:HB3	1.97	0.46
10:O:695:ARG:CD	10:O:740:GLU:CB	2.94	0.46
11:P:86:GLU:HB2	15:P:243:HOH:O	2.16	0.46
13:R:87:TRP:HA	13:R:90:THR:HG22	1.98	0.46
1:A:93:GLY:O	1:A:96:ARG:HB3	2.15	0.46
1:A:125:THR:O	1:A:211:CYS:HA	2.16	0.46
1:A:127:ASN:ND2	1:A:130:MET:SD	2.89	0.46
1:A:133:GLU:O	1:A:136:ARG:HB3	2.16	0.46
1:A:175:LEU:HB2	15:A:603:HOH:O	2.15	0.46
1:A:182:ASP:HB2	15:A:602:HOH:O	2.14	0.46
1:A:374:TYR:OH	1:A:412:GLN:HB3	2.16	0.46
2:B:212:LYS:HA	2:B:215:LYS:HB3	1.98	0.46
3:C:27:LEU:HD13	3:C:56:LEU:O	2.16	0.46
3:C:35:LEU:HG	3:C:67:SER:O	2.16	0.46
3:C:105:HIS:HA	3:C:108:THR:OG1	2.16	0.46
4:D:362:GLU:CA	4:D:364:ARG:NH1	2.79	0.46
5:E:118:ALA:HB1	9:N:133:LYS:NZ	2.30	0.46
5:E:159:GLN:HE22	5:E:187:ARG:HA	1.81	0.46
5:E:187:ARG:HD3	5:E:222:TYR:OH	2.16	0.46
5:E:209:ASN:HB2	5:E:210:LYS:HZ3	1.79	0.46
6:F:58:MET:O	6:F:66:VAL:HG21	2.16	0.46
6:F:69:ILE:CG2	6:F:124:TRP:HB2	2.45	0.46
6:F:100:ILE:HG12	6:F:138:VAL:CG1	2.46	0.46
6:F:114:GLN:OE1	9:N:131:GLU:O	2.34	0.46
7:G:193:SER:O	7:G:197:GLN:HB3	2.16	0.46
8:H:36:VAL:O	8:H:40:LEU:HG	2.16	0.46
8:H:43:LEU:HA	8:H:46:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:74:ILE:HG13	8:H:96:HIS:CE1	2.50	0.46
9:N:142:ARG:NH1	10:O:743:TYR:OH	2.49	0.46
10:O:10:PHE:HB2	10:O:56:ARG:NH1	2.30	0.46
10:O:84:LEU:CD1	10:O:158:ILE:HG22	2.46	0.46
10:O:622:MET:CE	10:O:653:ILE:HD13	2.44	0.46
10:O:688:MET:SD	10:O:725:LEU:CD1	3.04	0.46
10:O:734:SER:OG	10:O:742:SER:HB3	2.16	0.46
13:R:47:ASN:HB2	13:R:53:CYS:HB2	1.98	0.46
2:B:287:MET:CE	2:B:289:SER:HB3	2.46	0.45
3:C:110:ALA:O	3:C:113:GLU:HB3	2.15	0.45
3:C:139:THR:HG23	3:C:141:ILE:H	1.82	0.45
3:C:157:PRO:O	3:C:160:PRO:HD2	2.16	0.45
3:C:305:LYS:O	3:C:309:ARG:HG3	2.16	0.45
3:C:317:LEU:O	3:C:319:LEU:HD22	2.16	0.45
4:D:77:PRO:O	4:D:81:ALA:HB2	2.16	0.45
4:D:92:ILE:HG21	4:D:103:VAL:HG21	1.98	0.45
5:E:56:LYS:O	5:E:91:ILE:HG23	2.16	0.45
5:E:62:LEU:O	5:E:66:VAL:HB	2.16	0.45
6:F:69:ILE:HG13	6:F:91:SER:CB	2.44	0.45
6:F:72:LEU:HD13	6:F:150:LEU:CD2	2.45	0.45
7:G:111:ILE:HG21	7:G:116:LEU:CD2	2.47	0.45
7:G:184:VAL:O	7:G:188:ILE:HG13	2.17	0.45
8:H:17:LEU:HD12	8:H:21:GLU:HG2	1.98	0.45
8:H:36:VAL:HA	8:H:39:GLN:OE1	2.16	0.45
9:N:107:THR:C	10:O:691:ARG:NH2	2.63	0.45
9:N:130:VAL:HG12	9:N:141:GLN:HE22	1.80	0.45
10:O:80:GLU:HA	10:O:158:ILE:CG2	2.43	0.45
10:O:114:LYS:HA	10:O:120:GLU:OE1	2.16	0.45
10:O:565:LYS:HA	10:O:574:VAL:HG22	1.98	0.45
10:O:610:LEU:O	10:O:613:THR:HB	2.16	0.45
10:O:695:ARG:CD	10:O:740:GLU:HG3	2.45	0.45
10:O:696:HIS:H	10:O:740:GLU:H	1.62	0.45
11:P:7:ILE:HG22	11:P:77:LEU:CB	2.34	0.45
11:P:29:ARG:HD3	11:P:39:PRO:HD3	1.98	0.45
11:P:34:ILE:HD11	12:Q:5:PHE:HZ	1.81	0.45
11:P:35:LEU:HD23	12:Q:43:ARG:HG2	1.85	0.45
1:A:95:MET:HG2	1:A:247:TYR:HH	1.81	0.45
1:A:208:TYR:C	1:A:214:LEU:HD23	2.37	0.45
2:B:146:ARG:NE	2:B:193:GLN:HE22	2.14	0.45
2:B:170:LYS:HD2	2:B:171:ILE:N	2.31	0.45
2:B:201:GLU:O	2:B:205:TYR:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:245:HIS:CD2	2:B:254:ALA:HB2	2.51	0.45
2:B:387:SER:O	2:B:390:VAL:HG22	2.16	0.45
3:C:90:GLY:CA	3:C:93:ILE:HD11	2.37	0.45
4:D:89:LEU:HD22	4:D:103:VAL:HG13	1.97	0.45
4:D:387:LYS:HZ1	6:F:253:ASN:ND2	2.13	0.45
4:D:388:ILE:HD11	6:F:256:ILE:HD12	1.97	0.45
5:E:60:LEU:HD12	5:E:63:LEU:HD12	1.98	0.45
5:E:234:ASP:OD1	6:F:49:LEU:HD22	2.16	0.45
5:E:258:ASN:HB2	5:E:261:TYR:HB2	1.95	0.45
5:E:318:LEU:HD23	6:F:286:VAL:CG1	2.46	0.45
6:F:49:LEU:O	6:F:52:SER:HB3	2.16	0.45
7:G:56:ALA:O	7:G:57:GLU:HG3	2.16	0.45
7:G:183:VAL:HA	7:G:186:SER:OG	2.16	0.45
7:G:195:ALA:HB2	8:H:201:THR:HG21	1.94	0.45
8:H:35:PRO:HA	8:H:68:ASN:ND2	2.31	0.45
8:H:80:ARG:O	8:H:84:ARG:N	2.50	0.45
8:H:103:GLN:N	8:H:104:PRO:HD2	2.31	0.45
9:N:108:LEU:HD13	10:O:691:ARG:HG2	1.25	0.45
9:N:156:ALA:O	9:N:161:ILE:HB	2.16	0.45
9:N:170:VAL:CG2	10:O:690:ALA:N	2.77	0.45
10:O:1:MET:HB3	10:O:2:SER:H	1.50	0.45
10:O:73:HIS:HE2	10:O:153:GLU:CD	2.19	0.45
10:O:137:MET:HE3	10:O:142:LEU:HA	1.98	0.45
10:O:236:MET:O	10:O:239:VAL:HB	2.15	0.45
10:O:393:LYS:HA	10:O:396:ASP:CG	2.37	0.45
10:O:596:TYR:HB3	10:O:634:ALA:HA	1.97	0.45
11:P:23:THR:CG2	11:P:56:THR:HG22	2.46	0.45
11:P:31:VAL:HB	11:P:42:GLN:OE1	2.15	0.45
12:Q:46:LEU:CD1	12:Q:49:PHE:HB3	2.27	0.45
13:R:35:TRP:CZ2	13:R:39:VAL:HG12	2.51	0.45
1:A:280:ALA:HB3	1:A:283:THR:CG2	2.36	0.45
1:A:316:PHE:HB3	1:A:319:LEU:CB	2.27	0.45
1:A:361:GLN:O	1:A:365:ILE:HG13	2.17	0.45
1:A:451:ALA:HB1	1:A:460:LEU:HD21	1.97	0.45
2:B:85:PHE:O	2:B:88:MET:N	2.49	0.45
2:B:205:TYR:HB3	2:B:211:ASN:OD1	2.16	0.45
2:B:218:TYR:HA	2:B:221:SER:CB	2.46	0.45
2:B:333:ASN:CG	2:B:337:ILE:HG13	2.36	0.45
2:B:402:ILE:HA	2:B:409:LEU:CD1	2.43	0.45
2:B:431:LEU:CD1	6:F:292:LEU:HD13	2.47	0.45
3:C:252:PHE:O	3:C:255:PRO:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:310:LEU:HD11	3:C:326:VAL:CG1	2.34	0.45
3:C:390:LEU:HD13	6:F:298:THR:HA	1.30	0.45
5:E:81:MET:HG3	5:E:137:TYR:N	2.31	0.45
5:E:246:TRP:CB	6:F:227:ALA:N	2.75	0.45
5:E:250:LEU:HB3	5:E:328:PHE:HE2	1.82	0.45
6:F:155:ASN:HD21	6:F:157:MET:HB2	1.80	0.45
8:H:48:ASN:CB	8:H:116:ARG:HH22	2.30	0.45
8:H:122:SER:HB2	8:H:164:PRO:CB	2.41	0.45
8:H:162:VAL:HG12	8:H:164:PRO:HD3	1.98	0.45
9:N:1:GLY:HA2	9:N:118:GLU:OE2	2.15	0.45
10:O:192:GLU:OE1	10:O:201:LYS:N	2.49	0.45
10:O:286:ILE:HG13	10:O:294:MET:HE3	1.98	0.45
10:O:351:VAL:HG13	10:O:352:GLN:HG3	1.99	0.45
10:O:462:LYS:HG3	10:O:467:TYR:CD1	2.52	0.45
10:O:527:PHE:C	10:O:529:ILE:HD12	2.36	0.45
1:A:94:LEU:HD23	1:A:247:TYR:HB3	1.98	0.45
1:A:245:SER:OG	1:A:254:VAL:HG21	2.15	0.45
1:A:380:MET:CE	1:A:384:MET:HB3	2.46	0.45
1:A:381:LEU:HA	1:A:384:MET:CE	2.47	0.45
2:B:162:ARG:CD	2:B:164:GLU:HB2	2.46	0.45
2:B:292:ASN:HA	2:B:295:ASP:HB2	1.98	0.45
2:B:340:ASP:OD2	2:B:343:ILE:HG13	2.15	0.45
2:B:357:GLN:C	2:B:361:LYS:HZ2	2.19	0.45
2:B:370:HIS:CD2	4:D:354:GLN:HB3	2.51	0.45
2:B:389:LEU:O	2:B:393:ILE:HG12	2.16	0.45
2:B:426:LYS:HA	2:B:429:ASN:HB3	1.98	0.45
3:C:34:LEU:O	3:C:42:LEU:HD11	2.16	0.45
3:C:352:ASN:HD21	3:C:355:ASP:HB2	1.79	0.45
4:D:108:GLN:O	4:D:150:LYS:NZ	2.49	0.45
5:E:113:ALA:CA	9:N:129:ARG:N	2.77	0.45
5:E:121:ILE:O	5:E:124:ALA:HB3	2.17	0.45
5:E:273:LEU:HD23	5:E:273:LEU:HA	1.55	0.45
6:F:72:LEU:HD21	6:F:152:LEU:CB	2.45	0.45
6:F:201:ASP:OD2	6:F:219:GLU:CG	2.64	0.45
7:G:116:LEU:HD13	7:G:119:ASP:OD1	2.17	0.45
7:G:144:LYS:H	7:G:153:GLU:CB	2.24	0.45
8:H:33:THR:HG22	8:H:35:PRO:HD2	1.99	0.45
8:H:36:VAL:HG22	8:H:39:GLN:OE1	2.17	0.45
8:H:68:ASN:O	8:H:71:LEU:HB3	2.16	0.45
8:H:94:ASN:HA	8:H:97:GLN:HE21	1.81	0.45
9:N:127:LYS:CE	9:N:138:PRO:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:14:TRP:HZ3	10:O:18:LEU:HD22	1.82	0.45
10:O:16:LYS:HZ1	10:O:36:ASN:C	2.12	0.45
10:O:21:ILE:CD1	10:O:101:MET:HE3	2.40	0.45
10:O:54:GLY:HA2	10:O:57:LEU:HB3	1.99	0.45
10:O:83:VAL:HA	10:O:86:MET:HG2	1.98	0.45
10:O:188:PHE:HD2	10:O:207:PHE:CG	2.34	0.45
10:O:220:LYS:CA	10:O:270:MET:HE3	2.37	0.45
10:O:347:HIS:CD2	10:O:420:THR:HG22	2.50	0.45
10:O:564:VAL:HB	13:R:22:PHE:CD1	2.50	0.45
10:O:657:MET:C	10:O:658:GLN:HB2	2.20	0.45
11:P:5:LEU:HB3	11:P:75:VAL:CG2	2.47	0.45
11:P:29:ARG:CZ	11:P:39:PRO:HD2	2.46	0.45
11:P:69:PRO:O	11:P:72:PRO:HD3	2.17	0.45
1:A:121:PHE:O	1:A:124:ARG:HB2	2.17	0.45
1:A:140:GLU:O	1:A:144:GLU:HG3	2.16	0.45
1:A:218:LEU:O	1:A:218:LEU:HD23	2.16	0.45
1:A:322:PRO:CB	1:A:358:LEU:HD13	2.47	0.45
1:A:352:PHE:HB3	1:A:356:LEU:HD13	1.98	0.45
2:B:384:ASP:O	2:B:387:SER:HB2	2.17	0.45
2:B:399:HIS:HB3	2:B:412:ASP:N	2.32	0.45
3:C:30:LYS:HA	3:C:103:LEU:HB2	1.98	0.45
3:C:307:ILE:HD12	3:C:308:GLN:N	2.31	0.45
5:E:90:MET:HB2	5:E:224:LEU:CD2	2.46	0.45
5:E:113:ALA:CB	9:N:128:GLU:CD	2.83	0.45
5:E:159:GLN:HG3	5:E:165:PHE:HD2	1.82	0.45
5:E:189:TYR:CZ	5:E:196:PRO:HD2	2.51	0.45
5:E:238:LEU:CD1	6:F:203:VAL:HB	2.46	0.45
5:E:242:TRP:O	6:F:226:SER:OG	2.20	0.45
5:E:320:SER:O	5:E:323:ILE:HB	2.16	0.45
6:F:171:VAL:HG12	6:F:172:ILE:N	2.31	0.45
6:F:271:SER:O	6:F:276:LYS:CE	2.64	0.45
8:H:32:ALA:HB3	8:H:37:TYR:HE1	1.81	0.45
9:N:151:ASN:HB3	9:N:154:LYS:CD	2.46	0.45
10:O:182:HIS:CE1	10:O:186:ASN:HD21	2.35	0.45
10:O:391:LEU:O	10:O:394:TYR:HB3	2.17	0.45
10:O:415:LEU:HD23	10:O:418:PHE:CD2	2.51	0.45
10:O:551:ARG:CB	13:R:32:LEU:HB2	2.39	0.45
10:O:596:TYR:HA	10:O:632:ILE:CG2	2.46	0.45
10:O:688:MET:HE3	10:O:730:TYR:CB	2.46	0.45
1:A:94:LEU:CD2	1:A:247:TYR:HB3	2.47	0.45
1:A:128:VAL:HA	1:A:131:TYR:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:LEU:HD12	1:A:207:HIS:CD2	2.51	0.45
1:A:232:LYS:HD2	1:A:235:ILE:HD12	1.99	0.45
1:A:326:ALA:HB2	1:A:358:LEU:HD12	1.99	0.45
2:B:172:LEU:HD13	2:B:197:ILE:HG23	1.99	0.45
2:B:314:LEU:CD2	2:B:329:ILE:HD13	2.47	0.45
2:B:366:TYR:OH	4:D:340:SER:HB2	2.12	0.45
3:C:12:VAL:CG1	3:C:46:LEU:HD12	2.46	0.45
3:C:268:SER:HA	3:C:305:LYS:HZ1	1.80	0.45
5:E:315:ILE:HA	6:F:286:VAL:HG11	1.97	0.45
5:E:322:VAL:HG21	6:F:283:CYS:SG	2.57	0.45
6:F:59:ARG:HG3	6:F:64:ARG:C	2.37	0.45
6:F:83:VAL:HG21	6:F:167:VAL:CG2	2.46	0.45
6:F:138:VAL:O	6:F:142:VAL:HG23	2.17	0.45
7:G:6:LYS:HB2	7:G:7:PRO:HD2	1.99	0.45
8:H:31:ILE:HG21	8:H:64:ILE:HD11	1.98	0.45
9:N:1:GLY:CA	9:N:116:ASP:HB3	2.45	0.45
10:O:214:GLU:O	10:O:218:TYR:HB3	2.15	0.45
10:O:260:THR:CA	10:O:263:ILE:H	2.29	0.45
10:O:335:MET:HG2	10:O:338:LEU:CD2	2.47	0.45
10:O:476:MET:HE2	10:O:480:MET:SD	2.56	0.45
10:O:535:LYS:HA	10:O:538:GLN:CG	2.46	0.45
10:O:537:VAL:HG23	10:O:553:LEU:CG	2.46	0.45
10:O:626:ASP:HB2	10:O:636:SER:HB3	1.98	0.45
11:P:88:LEU:HB3	15:P:286:HOH:O	2.16	0.45
1:A:201:HIS:HA	1:A:220:CYS:CB	2.43	0.45
1:A:374:TYR:CZ	1:A:413:TYR:HB3	2.51	0.45
1:A:387:ASN:CA	1:A:390:LEU:HD12	2.47	0.45
2:B:149:PHE:CE2	2:B:193:GLN:HA	2.52	0.45
2:B:225:LYS:HA	2:B:228:ILE:HG22	1.99	0.45
2:B:278:LYS:CE	2:B:311:MET:HB2	2.44	0.45
2:B:282:LEU:O	2:B:285:MET:HG2	2.16	0.45
3:C:192:TYR:O	3:C:196:LYS:N	2.50	0.45
3:C:369:ASN:CB	3:C:372:MET:HG2	2.31	0.45
4:D:310:LEU:O	4:D:313:SER:OG	2.25	0.45
5:E:324:LYS:HB2	5:E:324:LYS:HE3	1.64	0.45
6:F:43:LEU:CD1	6:F:84:MET:HB3	2.46	0.45
6:F:50:ASN:HA	6:F:53:ASP:CB	2.46	0.45
7:G:75:TYR:HB3	7:G:76:PRO:HD3	1.98	0.45
7:G:92:GLN:HG2	7:G:95:LYS:HD3	1.99	0.45
7:G:199:LYS:HE2	8:H:209:ASN:C	2.35	0.45
8:H:114:ARG:HG2	8:H:118:PHE:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:267:GLN:O	10:O:271:VAL:HG22	2.17	0.45
10:O:279:HIS:O	10:O:282:CYS:HB3	2.17	0.45
10:O:493:PHE:CD2	10:O:494:ILE:HG13	2.51	0.45
10:O:522:ALA:HB3	10:O:556:LEU:CD2	2.46	0.45
10:O:567:ASN:ND2	13:R:22:PHE:N	2.63	0.45
10:O:618:LEU:HB2	10:O:625:HIS:CE1	2.52	0.45
13:R:99:ARG:CZ	13:R:102:GLU:HB2	2.46	0.45
1:A:103:ILE:HD12	1:A:104:ALA:N	2.32	0.45
1:A:145:LEU:HG	1:A:149:PRO:HD3	1.99	0.45
1:A:221:TYR:HA	1:A:224:ALA:HB2	1.98	0.45
1:A:401:LEU:O	1:A:405:ILE:HG13	2.17	0.45
2:B:93:LYS:HA	2:B:96:LEU:HD12	1.99	0.45
2:B:282:LEU:HD21	2:B:346:HIS:CB	2.47	0.45
2:B:305:ASP:HB3	2:B:308:ILE:HG12	1.97	0.45
2:B:381:ASP:OD2	2:B:383:ALA:HB3	2.17	0.45
3:C:13:ARG:CG	3:C:45:VAL:HB	2.46	0.45
3:C:142:HIS:HB3	3:C:187:TYR:OH	2.17	0.45
4:D:370:TRP:CD1	6:F:269:VAL:HG12	2.51	0.45
4:D:379:PHE:O	4:D:383:ASN:ND2	2.50	0.45
5:E:55:CYS:HB3	5:E:226:VAL:HA	1.99	0.45
5:E:166:VAL:HG21	5:E:185:ALA:HB1	1.99	0.45
5:E:166:VAL:CG1	5:E:168:VAL:HG23	2.46	0.45
5:E:209:ASN:O	5:E:210:LYS:HD3	2.17	0.45
6:F:138:VAL:HG22	6:F:141:GLN:OE1	2.17	0.45
6:F:146:ILE:HD11	6:F:149:PRO:CA	2.47	0.45
7:G:11:LEU:HA	7:G:14:GLN:HB3	1.99	0.45
8:H:128:ILE:HD11	8:H:132:ASP:HB2	1.99	0.45
9:N:102:LEU:HD11	9:N:114:GLU:CG	2.40	0.45
9:N:105:VAL:HG21	9:N:130:VAL:HG22	1.98	0.45
10:O:16:LYS:HZ2	10:O:39:PHE:CA	2.28	0.45
10:O:17:LEU:HD22	10:O:61:THR:HA	1.99	0.45
10:O:28:GLU:CA	10:O:30:VAL:HA	2.46	0.45
10:O:202:PHE:HA	10:O:206:ILE:HG13	1.98	0.45
10:O:227:LEU:HD22	10:O:235:TYR:CE1	2.52	0.45
10:O:386:LYS:O	10:O:389:GLU:HB2	2.17	0.45
10:O:462:LYS:HG3	10:O:467:TYR:HD1	1.82	0.45
10:O:524:SER:HB3	10:O:555:TRP:CD1	2.52	0.45
10:O:622:MET:CG	10:O:650:LYS:HD2	2.47	0.45
10:O:744:VAL:HG12	10:O:745:ALA:N	2.32	0.45
13:R:61:ALA:CB	13:R:81:PHE:HZ	2.30	0.45
13:R:75:CYS:HB2	13:R:77:HIS:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:168:GLU:HA	1:A:171:ARG:HE	1.81	0.45
1:A:185:LEU:O	1:A:189:LYS:HG3	2.15	0.45
1:A:228:CYS:CB	1:A:233:HIS:HB3	2.47	0.45
1:A:303:ALA:HA	1:A:306:LEU:HB2	1.98	0.45
1:A:352:PHE:CD2	1:A:356:LEU:HD12	2.41	0.45
1:A:388:LEU:HD21	1:A:402:TYR:CE2	2.52	0.45
1:A:401:LEU:HD12	1:A:402:TYR:CD1	2.52	0.45
2:B:37:TYR:HB2	2:B:57:VAL:HG23	1.99	0.45
2:B:340:ASP:CB	2:B:343:ILE:HD12	2.47	0.45
3:C:326:VAL:HB	3:C:328:LEU:HD21	1.98	0.45
3:C:352:ASN:CB	3:C:357:MET:HB2	2.47	0.45
4:D:52:MET:HA	4:D:57:VAL:HG11	1.98	0.45
4:D:218:HIS:O	4:D:222:ARG:N	2.46	0.45
4:D:324:LEU:HD22	4:D:327:LEU:HD13	1.98	0.45
4:D:328:LEU:O	4:D:330:ILE:HG23	2.17	0.45
5:E:44:PRO:HD2	5:E:45:TRP:CE3	2.51	0.45
5:E:80:LEU:HD12	5:E:135:GLY:O	2.17	0.45
5:E:279:GLN:NE2	5:E:298:ASP:H	2.14	0.45
5:E:331:ILE:HG22	7:G:177:TRP:CZ2	2.52	0.45
6:F:54:HIS:CE1	6:F:89:LEU:H	2.35	0.45
7:G:1:MET:CE	7:G:12:LEU:HD11	2.47	0.45
8:H:54:ARG:HA	8:H:75:TRP:CH2	2.52	0.45
8:H:90:TYR:O	8:H:93:ILE:HB	2.17	0.45
8:H:98:TRP:CB	8:H:102:VAL:HB	2.31	0.45
8:H:140:PRO:HG2	8:H:143:GLU:HB2	1.98	0.45
8:H:148:ILE:HD12	8:H:149:LEU:N	2.32	0.45
9:N:118:GLU:H	9:N:121:ASP:CB	2.23	0.45
10:O:108:LEU:O	10:O:111:GLN:N	2.50	0.45
10:O:211:PHE:CZ	10:O:246:GLU:OE2	2.70	0.45
10:O:301:LEU:C	10:O:305:SER:CA	2.82	0.45
10:O:623:ILE:CG2	10:O:625:HIS:HB3	2.46	0.45
10:O:695:ARG:CD	10:O:740:GLU:HB2	2.46	0.45
10:O:718:ILE:HG23	10:O:719:LYS:HG3	1.99	0.45
11:P:4:PHE:HB3	15:P:267:HOH:O	2.17	0.45
11:P:29:ARG:HB3	15:P:268:HOH:O	2.17	0.45
11:P:71:ALA:HB3	15:P:235:HOH:O	2.16	0.45
12:Q:15:GLU:CG	12:Q:45:GLU:CB	2.95	0.45
12:Q:86:MET:SD	12:Q:90:LEU:CG	3.03	0.45
13:R:87:TRP:O	13:R:90:THR:HG22	2.17	0.45
1:A:177:LYS:CG	1:A:180:LYS:HZ3	2.30	0.45
1:A:273:GLU:O	1:A:277:GLN:CA	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:58:LEU:CD1	2:B:72:LEU:HD21	2.44	0.45
2:B:119:ILE:HD13	2:B:131:PHE:CE2	2.52	0.45
2:B:198:TYR:O	2:B:202:ILE:HG13	2.17	0.45
2:B:221:SER:HA	2:B:224:ILE:CG1	2.47	0.45
2:B:284:ASN:O	2:B:287:MET:HB3	2.17	0.45
2:B:438:VAL:HG12	6:F:302:MET:HG2	1.93	0.45
3:C:27:LEU:HD21	3:C:60:ALA:HB2	1.99	0.45
3:C:94:ARG:HA	3:C:131:MET:CG	2.47	0.45
3:C:242:PRO:HB2	3:C:244:TYR:CE1	2.52	0.45
3:C:279:VAL:HG13	3:C:286:PHE:CZ	2.52	0.45
3:C:355:ASP:HB3	3:C:357:MET:CE	2.47	0.45
4:D:95:ARG:O	4:D:98:SER:N	2.41	0.45
4:D:395:TRP:CD2	6:F:250:VAL:HG22	2.50	0.45
5:E:120:TYR:HA	6:F:111:GLN:CB	2.42	0.45
5:E:230:LYS:HB2	5:E:234:ASP:OD2	2.16	0.45
6:F:171:VAL:HB	6:F:182:LEU:CD1	2.38	0.45
7:G:31:ILE:HD11	7:G:55:LEU:CG	2.35	0.45
7:G:115:VAL:HG12	7:G:116:LEU:HD22	1.99	0.45
8:H:121:VAL:HG21	8:H:133:PHE:CE1	2.53	0.45
10:O:16:LYS:NZ	10:O:39:PHE:H	2.05	0.45
10:O:21:ILE:N	10:O:64:PHE:CE2	2.83	0.45
10:O:38:ARG:NH1	10:O:101:MET:HE3	2.32	0.45
10:O:53:LEU:HD12	10:O:56:ARG:HH12	1.82	0.45
10:O:499:THR:HB	10:O:532:GLU:CG	2.47	0.45
10:O:501:ILE:HG13	10:O:503:LEU:CD2	2.46	0.45
10:O:696:HIS:CE1	10:O:718:ILE:HD13	2.53	0.45
13:R:84:ILE:HG12	13:R:101:TRP:CA	2.41	0.45
1:A:194:LYS:O	1:A:197:ILE:HB	2.16	0.44
1:A:274:ARG:HG3	1:A:278:THR:H	1.82	0.44
1:A:418:VAL:HG22	1:A:461:TYR:CZ	2.52	0.44
2:B:37:TYR:O	2:B:53:SER:HB3	2.17	0.44
2:B:259:PHE:CZ	13:R:67:GLU:OE1	2.70	0.44
2:B:281:VAL:HG12	2:B:285:MET:HE2	1.98	0.44
2:B:282:LEU:HD21	2:B:346:HIS:CD2	2.52	0.44
3:C:23:GLN:CA	3:C:58:VAL:H	2.30	0.44
3:C:169:ILE:HD12	3:C:169:ILE:H	1.81	0.44
4:D:205:ALA:HB2	4:D:232:CYS:HB3	1.99	0.44
4:D:365:GLU:C	6:F:270:LEU:HG	2.38	0.44
5:E:45:TRP:HE3	5:E:52:PHE:HE2	1.64	0.44
5:E:50:HIS:NE2	5:E:198:GLU:HB2	2.32	0.44
5:E:116:TYR:CA	9:N:132:GLU:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:120:TYR:HE1	6:F:112:PHE:HD1	1.64	0.44
5:E:151:ASP:HA	5:E:154:THR:CB	2.47	0.44
5:E:187:ARG:CG	5:E:224:LEU:HD11	2.46	0.44
6:F:36:THR:HG22	6:F:169:GLU:OE1	2.17	0.44
6:F:46:LEU:HD12	6:F:49:LEU:HB2	1.97	0.44
8:H:196:GLN:HA	8:H:199:ARG:CG	2.47	0.44
10:O:24:VAL:HG13	10:O:30:VAL:CG1	2.21	0.44
10:O:58:TYR:OH	10:O:135:PRO:HG2	2.17	0.44
10:O:362:GLN:O	10:O:365:MET:HB2	2.17	0.44
10:O:494:ILE:CD1	10:O:539:MET:HB3	2.47	0.44
10:O:498:ASP:OD1	10:O:532:GLU:HG2	2.17	0.44
10:O:594:VAL:CG1	10:O:598:GLU:HB2	2.31	0.44
10:O:622:MET:SD	10:O:650:LYS:HD2	2.57	0.44
11:P:94:SER:O	15:Q:104:HOH:O	2.19	0.44
12:Q:8:LEU:HD11	12:Q:29:LEU:HD21	1.99	0.44
1:A:83:ASP:OD2	1:A:86:GLN:NE2	2.50	0.44
1:A:146:GLN:OE1	1:A:149:PRO:HG2	2.17	0.44
1:A:218:LEU:CD2	1:A:222:SER:HB2	2.47	0.44
1:A:360:PRO:HD3	1:A:363:ARG:HH21	1.81	0.44
1:A:370:TYR:HE2	2:B:394:LEU:HD11	1.74	0.44
2:B:156:GLY:HA3	2:B:200:LEU:HD11	1.98	0.44
2:B:297:GLN:OE1	13:R:70:VAL:CB	2.65	0.44
2:B:388:LEU:HA	2:B:391:GLN:OE1	2.16	0.44
3:C:18:GLN:HB3	3:C:21:MET:HE2	1.99	0.44
3:C:94:ARG:NH2	3:C:170:CYS:HB3	2.24	0.44
4:D:101:GLU:OE2	4:D:102:GLN:NE2	2.50	0.44
4:D:404:MET:CE	6:F:161:THR:CB	2.96	0.44
5:E:27:GLU:HA	5:E:30:LYS:HE3	2.00	0.44
5:E:60:LEU:H	6:F:46:LEU:HD22	1.78	0.44
5:E:102:GLY:O	9:N:122:LYS:NZ	2.51	0.44
5:E:218:CYS:SG	5:E:219:LYS:HG2	2.57	0.44
5:E:253:SER:H	5:E:324:LYS:NZ	2.15	0.44
6:F:181:MET:HG3	6:F:182:LEU:H	1.82	0.44
7:G:27:LEU:CD2	7:G:60:ASN:HD22	2.29	0.44
7:G:43:PHE:HD2	7:G:67:LEU:HD13	1.82	0.44
10:O:336:PRO:O	10:O:340:VAL:CB	2.59	0.44
10:O:389:GLU:HA	10:O:431:PHE:CE1	2.41	0.44
10:O:461:LEU:HB3	10:O:465:CYS:SG	2.57	0.44
10:O:499:THR:CB	10:O:532:GLU:HG3	2.47	0.44
10:O:565:LYS:HG2	10:O:574:VAL:CG1	2.30	0.44
10:O:570:GLY:O	13:R:19:LYS:NZ	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:7:ILE:HA	11:P:75:VAL:O	2.16	0.44
11:P:38:PRO:HG2	11:P:40:ASP:OD1	2.17	0.44
13:R:94:CYS:O	13:R:98:ASN:HA	2.16	0.44
1:A:228:CYS:HA	1:A:233:HIS:HB3	1.98	0.44
1:A:279:GLN:CA	1:A:313:HIS:HA	2.34	0.44
1:A:423:HIS:CE1	1:A:458:LYS:HB2	2.52	0.44
2:B:73:LYS:NZ	2:B:111:SER:HA	2.31	0.44
2:B:194:LEU:HA	2:B:197:ILE:CD1	2.39	0.44
2:B:297:GLN:CD	13:R:70:VAL:HB	2.38	0.44
3:C:30:LYS:HA	3:C:103:LEU:CB	2.47	0.44
3:C:135:THR:O	3:C:164:VAL:HG11	2.17	0.44
3:C:310:LEU:HD21	3:C:326:VAL:CG2	2.47	0.44
3:C:336:LYS:HE2	3:C:336:LYS:N	2.33	0.44
5:E:31:TYR:OH	5:E:131:GLU:HA	2.17	0.44
5:E:78:MET:CE	9:N:128:GLU:CD	2.85	0.44
5:E:83:GLY:CA	5:E:134:ILE:HG21	2.46	0.44
5:E:115:GLU:HA	5:E:118:ALA:HB2	2.00	0.44
6:F:102:LYS:HZ1	6:F:141:GLN:HG2	1.82	0.44
7:G:42:VAL:HB	7:G:162:ILE:HB	1.99	0.44
7:G:67:LEU:HG	7:G:164:LYS:HZ1	1.82	0.44
7:G:75:TYR:HD1	7:G:96:LEU:HB2	1.82	0.44
8:H:110:ARG:HE	8:H:114:ARG:HH22	1.64	0.44
8:H:154:GLN:HB3	8:H:163:LEU:HD12	1.99	0.44
9:N:120:THR:HG22	9:N:120:THR:O	2.17	0.44
10:O:10:PHE:CD2	10:O:10:PHE:O	2.70	0.44
10:O:28:GLU:C	10:O:30:VAL:HA	2.38	0.44
10:O:84:LEU:HD11	10:O:158:ILE:HG22	1.97	0.44
10:O:309:PRO:HA	10:O:312:ILE:CD1	2.48	0.44
10:O:419:ILE:HG12	10:O:460:LYS:NZ	2.32	0.44
10:O:435:TYR:HD1	10:O:438:MET:SD	2.40	0.44
10:O:437:ARG:NH2	10:O:660:ASP:CG	2.71	0.44
10:O:493:PHE:HB3	10:O:543:PHE:HZ	1.82	0.44
10:O:571:LYS:HB3	10:O:573:TYR:CD2	2.52	0.44
10:O:623:ILE:CD1	10:O:625:HIS:HB3	2.48	0.44
10:O:732:GLU:CB	10:O:744:VAL:CG2	2.94	0.44
11:P:29:ARG:HD3	11:P:32:GLU:OE1	2.16	0.44
11:P:69:PRO:HA	12:Q:62:ASN:ND2	2.31	0.44
1:A:266:GLU:O	1:A:269:GLU:N	2.51	0.44
1:A:280:ALA:HB1	1:A:282:LEU:HB2	1.99	0.44
1:A:398:VAL:HG13	1:A:399:ARG:HE	1.82	0.44
2:B:281:VAL:HG12	2:B:285:MET:CE	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:314:LEU:HD11	2:B:329:ILE:HG22	1.99	0.44
3:C:12:VAL:HG21	3:C:46:LEU:HD13	1.99	0.44
3:C:25:CYS:H	3:C:55:SER:HA	1.83	0.44
3:C:140:SER:O	3:C:143:ALA:HB3	2.18	0.44
4:D:238:ALA:HB1	4:D:310:LEU:HD23	1.98	0.44
5:E:62:LEU:HA	5:E:65:MET:HE2	1.98	0.44
5:E:111:ALA:HA	5:E:114:TYR:CD2	2.53	0.44
7:G:19:ALA:HA	7:G:30:LEU:HD22	2.00	0.44
7:G:188:ILE:CD1	8:H:197:LEU:HD21	2.47	0.44
8:H:57:TRP:HA	8:H:60:ILE:HG12	1.98	0.44
8:H:112:ALA:HA	8:H:115:ARG:NH2	2.32	0.44
9:N:100:SER:OG	9:N:119:PRO:HD3	2.17	0.44
9:N:123:VAL:O	9:N:127:LYS:HG3	2.16	0.44
10:O:397:ASN:C	10:O:400:LYS:HE3	2.37	0.44
10:O:522:ALA:N	10:O:556:LEU:HD21	2.33	0.44
10:O:594:VAL:HG22	10:O:598:GLU:OE1	2.18	0.44
10:O:596:TYR:HB2	10:O:632:ILE:HG23	1.99	0.44
10:O:722:ILE:HG22	10:O:726:ILE:HD11	1.98	0.44
11:P:6:MET:O	11:P:75:VAL:N	2.35	0.44
13:R:77:HIS:HB2	13:R:79:PHE:CD2	2.52	0.44
13:R:77:HIS:HE1	13:R:84:ILE:HD11	1.81	0.44
1:A:260:LYS:HA	1:A:264:THR:HB	2.00	0.44
1:A:436:LEU:HD13	1:A:440:LEU:HD11	1.99	0.44
2:B:159:TYR:CD2	2:B:164:GLU:HB3	2.53	0.44
2:B:422:THR:HA	2:B:425:ASP:CB	2.47	0.44
3:C:85:ILE:HA	3:C:127:ALA:HB3	1.99	0.44
3:C:105:HIS:O	3:C:108:THR:HB	2.16	0.44
3:C:110:ALA:HA	3:C:113:GLU:CB	2.41	0.44
3:C:121:ILE:O	3:C:125:LYS:HG3	2.17	0.44
3:C:237:LYS:HA	3:C:237:LYS:HD2	1.87	0.44
3:C:259:ALA:HB2	3:C:281:LYS:NZ	2.33	0.44
4:D:49:VAL:O	4:D:53:VAL:HG13	2.17	0.44
4:D:238:ALA:HB3	4:D:347:ARG:HH12	1.82	0.44
4:D:317:ASN:CA	7:G:144:LYS:HZ2	2.29	0.44
4:D:370:TRP:O	4:D:374:ILE:HG13	2.16	0.44
4:D:399:ALA:O	6:F:237:LEU:HD23	2.12	0.44
5:E:189:TYR:CZ	5:E:195:PRO:HA	2.52	0.44
5:E:253:SER:HA	5:E:321:GLN:OE1	2.17	0.44
6:F:72:LEU:CD2	6:F:152:LEU:HD13	2.47	0.44
6:F:231:LEU:CD1	6:F:235:VAL:HG23	2.48	0.44
6:F:239:LEU:CD1	7:G:172:ARG:NH2	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:272:THR:CB	6:F:274:LYS:HE2	2.47	0.44
6:F:280:TYR:O	6:F:284:ASN:ND2	2.51	0.44
8:H:118:PHE:HA	8:H:133:PHE:CZ	2.53	0.44
8:H:162:VAL:CB	8:H:164:PRO:HD3	2.48	0.44
10:O:379:ARG:H	10:O:384:VAL:HG21	1.83	0.44
10:O:485:ASP:HA	10:O:488:ASN:ND2	2.29	0.44
10:O:540:PHE:HD2	10:O:553:LEU:HB2	1.80	0.44
11:P:24:VAL:HG12	11:P:28:LYS:HE3	1.99	0.44
1:A:195:GLU:OE1	1:A:198:ARG:NE	2.35	0.44
1:A:274:ARG:HG3	1:A:274:ARG:O	2.17	0.44
2:B:326:PHE:O	2:B:330:LEU:HG	2.18	0.44
2:B:338:MET:CE	2:B:347:ILE:HG21	2.42	0.44
2:B:443:ALA:CA	3:C:244:TYR:CG	2.98	0.44
3:C:3:SER:O	3:C:6:GLU:HG3	2.17	0.44
3:C:24:LEU:HA	3:C:58:VAL:HG12	2.00	0.44
3:C:259:ALA:C	3:C:262:GLU:HG3	2.38	0.44
3:C:270:ASN:OD1	3:C:305:LYS:HD3	2.18	0.44
3:C:272:PRO:O	3:C:275:LEU:HG	2.17	0.44
3:C:397:ILE:HG21	6:F:308:LYS:HD2	1.30	0.44
4:D:79:SER:OG	4:D:80:THR:N	2.49	0.44
4:D:343:ILE:HD12	4:D:346:GLY:HA2	1.99	0.44
4:D:403:GLN:HA	4:D:406:GLN:HB2	1.99	0.44
5:E:59:ALA:CB	6:F:46:LEU:HD13	2.47	0.44
5:E:116:TYR:CB	9:N:132:GLU:CG	2.96	0.44
5:E:164:PRO:HA	5:E:187:ARG:HH22	1.82	0.44
5:E:230:LYS:HD3	6:F:203:VAL:HG13	2.00	0.44
5:E:247:VAL:H	6:F:227:ALA:HB1	1.82	0.44
5:E:323:ILE:HG12	8:H:200:LEU:HD13	1.99	0.44
6:F:132:ASP:O	6:F:136:ILE:HG13	2.18	0.44
7:G:40:VAL:HG13	7:G:42:VAL:O	2.17	0.44
7:G:49:LEU:HD21	7:G:51:ASN:OD1	2.18	0.44
7:G:71:ALA:CB	7:G:164:LYS:HG3	2.47	0.44
10:O:344:LEU:CD2	10:O:421:VAL:HG23	2.20	0.44
10:O:451:MET:HA	10:O:454:GLU:OE1	2.18	0.44
13:R:87:TRP:HD1	13:R:96:LEU:CG	2.31	0.44
1:A:357:GLU:HA	1:A:363:ARG:CZ	2.47	0.44
1:A:437:GLU:HA	1:A:440:LEU:CG	2.47	0.44
2:B:132:TYR:HE1	2:B:154:LYS:HE2	1.82	0.44
2:B:214:LEU:HA	2:B:217:LEU:CD1	2.36	0.44
2:B:338:MET:O	2:B:344:ARG:HB2	2.18	0.44
2:B:424:LEU:HD11	5:E:263:THR:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:431:LEU:HA	2:B:434:LEU:CB	2.48	0.44
3:C:5:LEU:HA	3:C:8:PHE:CB	2.37	0.44
3:C:375:ASN:O	3:C:378:GLN:HB3	2.17	0.44
4:D:238:ALA:HB1	4:D:310:LEU:CD2	2.47	0.44
5:E:54:TYR:CB	5:E:89:THR:HG23	2.48	0.44
5:E:197:ASP:OD1	5:E:198:GLU:N	2.51	0.44
5:E:311:THR:HG22	5:E:315:ILE:HD12	2.00	0.44
6:F:71:ALA:HA	6:F:121:PHE:CE1	2.53	0.44
7:G:49:LEU:O	7:G:53:GLN:HG3	2.17	0.44
8:H:33:THR:CG2	8:H:36:VAL:HG23	2.45	0.44
8:H:93:ILE:HG12	8:H:106:MET:CE	2.47	0.44
8:H:110:ARG:HG2	8:H:114:ARG:NH2	2.33	0.44
8:H:133:PHE:HA	8:H:136:PHE:CB	2.45	0.44
9:N:145:TYR:OH	9:N:160:LYS:HE3	2.18	0.44
10:O:9:ASP:CA	10:O:56:ARG:HH11	2.28	0.44
10:O:236:MET:CE	10:O:300:LEU:HD13	2.44	0.44
10:O:239:VAL:O	10:O:243:LEU:HG	2.17	0.44
10:O:275:LEU:HD13	10:O:306:THR:OG1	2.16	0.44
10:O:302:ARG:HA	10:O:308:LEU:HD12	1.99	0.44
10:O:353:LEU:HD12	10:O:358:LEU:HD21	2.00	0.44
10:O:501:ILE:HG23	10:O:501:ILE:O	2.18	0.44
10:O:688:MET:CE	10:O:730:TYR:HB2	2.47	0.44
10:O:699:LEU:HD22	10:O:699:LEU:C	2.38	0.44
11:P:27:LEU:HD12	11:P:44:LEU:HD21	2.00	0.44
13:R:64:THR:HG22	13:R:65:SER:N	2.32	0.44
13:R:91:ARG:HG2	13:R:93:VAL:O	2.18	0.44
1:A:342:LEU:O	1:A:346:VAL:HG23	2.18	0.44
1:A:455:SER:OG	3:C:317:LEU:HA	2.18	0.44
1:A:498:ASN:C	3:C:171:LYS:HD3	2.37	0.44
2:B:100:ARG:NH2	2:B:138:ALA:O	2.49	0.44
2:B:317:ALA:HB3	2:B:325:GLU:CD	2.37	0.44
3:C:93:ILE:O	3:C:131:MET:HG3	2.17	0.44
3:C:125:LYS:HD2	3:C:161:TYR:CE2	2.52	0.44
3:C:279:VAL:HG11	3:C:295:VAL:HB	2.00	0.44
3:C:283:SER:HA	3:C:286:PHE:CD2	2.53	0.44
3:C:294:LEU:HD23	3:C:297:GLN:HE22	1.82	0.44
3:C:403:PHE:HZ	6:F:311:VAL:CG1	1.67	0.44
4:D:52:MET:CG	4:D:66:LEU:HD11	2.47	0.44
4:D:237:SER:OG	4:D:306:GLU:OE1	2.18	0.44
5:E:33:LYS:HE3	5:E:37:GLN:NE2	2.29	0.44
5:E:49:HIS:HB2	5:E:193:TYR:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:203:TYR:HA	5:E:214:PHE:CZ	2.52	0.44
6:F:41:VAL:HG11	6:F:73:ILE:HD12	1.99	0.44
6:F:41:VAL:HG12	6:F:74:GLY:N	2.33	0.44
6:F:67:GLN:HA	6:F:127:THR:O	2.17	0.44
6:F:109:GLU:O	6:F:113:LYS:HG2	2.18	0.44
6:F:140:LYS:O	6:F:143:CYS:HB2	2.18	0.44
6:F:202:HIS:CD2	6:F:206:MET:HG2	2.52	0.44
7:G:76:PRO:HD3	7:G:120:LEU:CD2	2.47	0.44
7:G:122:MET:CE	7:G:127:GLU:HG2	2.47	0.44
7:G:133:ILE:HA	7:G:136:VAL:CG2	2.45	0.44
9:N:108:LEU:CG	10:O:691:ARG:HH11	2.30	0.44
10:O:275:LEU:HG	10:O:279:HIS:HD1	1.83	0.44
10:O:538:GLN:HG3	10:O:539:MET:CE	2.48	0.44
10:O:614:ILE:HG22	10:O:628:GLU:CG	2.39	0.44
10:O:623:ILE:C	10:O:641:ASN:HB2	2.38	0.44
10:O:718:ILE:CG2	10:O:719:LYS:N	2.80	0.44
11:P:56:THR:N	11:P:59:GLU:HB2	2.32	0.44
1:A:119:LEU:HD21	1:A:131:TYR:CE1	2.53	0.44
1:A:255:LEU:HD11	1:A:292:ALA:HB2	2.00	0.44
1:A:471:THR:HA	1:A:474:LYS:CG	2.47	0.44
1:A:471:THR:HA	1:A:474:LYS:HG2	1.99	0.44
1:A:490:MET:C	3:C:167:MET:HE2	2.38	0.44
2:B:71:ALA:O	2:B:74:GLN:HB2	2.18	0.44
2:B:106:ASN:HA	2:B:109:GLU:HB3	2.00	0.44
2:B:265:TYR:HD2	2:B:273:ARG:HD2	1.81	0.44
2:B:428:THR:HG21	6:F:292:LEU:HD21	2.00	0.44
3:C:82:GLN:HG2	3:C:123:ILE:HG21	1.98	0.44
4:D:92:ILE:HG23	4:D:99:PHE:CG	2.53	0.44
5:E:114:TYR:H	9:N:129:ARG:HG2	1.83	0.44
7:G:10:ASN:O	7:G:14:GLN:CB	2.65	0.44
8:H:33:THR:CG2	8:H:36:VAL:H	2.27	0.44
8:H:155:ALA:HA	8:H:161:MET:O	2.18	0.44
10:O:58:TYR:HA	10:O:61:THR:HB	1.99	0.44
10:O:276:GLN:HA	10:O:279:HIS:ND1	2.33	0.44
10:O:388:PRO:O	10:O:391:LEU:CB	2.66	0.44
10:O:407:THR:N	10:O:410:GLU:OE1	2.50	0.44
10:O:599:LEU:HD22	10:O:610:LEU:HD22	1.99	0.44
10:O:700:ILE:CG2	10:O:701:GLN:N	2.81	0.44
10:O:731:ILE:HG12	10:O:742:SER:O	2.17	0.44
13:R:44:ILE:HD11	13:R:96:LEU:HD23	1.99	0.44
13:R:75:CYS:HA	13:R:99:ARG:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:SER:OG	1:A:318:GLU:OE2	2.32	0.43
1:A:171:ARG:HG2	15:A:603:HOH:O	2.18	0.43
1:A:258:VAL:HA	1:A:285:LEU:HD22	2.00	0.43
1:A:286:LYS:HE3	1:A:306:LEU:HD23	1.98	0.43
1:A:355:PHE:HA	1:A:358:LEU:HD11	1.97	0.43
1:A:366:ILE:HA	1:A:369:PHE:HB3	2.00	0.43
1:A:451:ALA:CB	1:A:462:ALA:HA	2.47	0.43
1:A:452:ARG:CZ	3:C:312:LYS:HA	2.48	0.43
1:A:470:THR:O	1:A:474:LYS:HE3	2.17	0.43
1:A:480:LYS:HA	1:A:483:GLN:NE2	2.33	0.43
2:B:109:GLU:HG2	2:B:113:ASN:HD21	1.83	0.43
2:B:264:ASN:O	2:B:267:GLU:HB2	2.18	0.43
2:B:392:CYS:SG	2:B:398:ILE:HD11	2.58	0.43
4:D:212:SER:O	4:D:222:ARG:NH2	2.45	0.43
4:D:319:ILE:C	4:D:358:ILE:HD12	2.38	0.43
4:D:395:TRP:CD1	6:F:250:VAL:HG21	2.53	0.43
5:E:69:ALA:HB1	5:E:172:PRO:HB3	2.00	0.43
5:E:124:ALA:C	5:E:129:ARG:HB2	2.38	0.43
6:F:48:ILE:HA	6:F:51:ILE:HD12	2.00	0.43
7:G:117:LEU:HD23	7:G:122:MET:HB3	1.98	0.43
7:G:146:ASP:OD1	7:G:149:ASN:HB2	2.18	0.43
7:G:146:ASP:H	7:G:152:LEU:HA	1.82	0.43
8:H:204:VAL:O	8:H:209:ASN:N	2.51	0.43
9:N:103:ILE:HA	9:N:163:GLY:O	2.18	0.43
9:N:140:GLN:HE22	10:O:742:SER:HB2	1.83	0.43
10:O:22:LYS:N	10:O:68:HIS:HB2	2.14	0.43
10:O:392:ALA:HA	10:O:395:CYS:CB	2.47	0.43
10:O:472:LYS:NZ	10:O:516:ALA:HB2	2.33	0.43
10:O:571:LYS:HB3	10:O:573:TYR:CG	2.53	0.43
10:O:578:THR:OG1	10:O:656:SER:HB3	2.17	0.43
10:O:623:ILE:CG1	10:O:625:HIS:HB3	2.48	0.43
10:O:688:MET:HE1	10:O:725:LEU:CG	2.47	0.43
11:P:27:LEU:O	11:P:27:LEU:HD13	2.18	0.43
1:A:82:LEU:HD11	1:A:390:LEU:HB3	2.00	0.43
1:A:408:ARG:CA	1:A:411:ILE:HD12	2.46	0.43
1:A:449:ILE:HD12	1:A:462:ALA:CB	2.48	0.43
1:A:459:ILE:HG22	1:A:460:LEU:O	2.18	0.43
2:B:357:GLN:HA	2:B:360:ILE:CD1	2.33	0.43
3:C:338:VAL:O	3:C:341:MET:HB2	2.18	0.43
3:C:339:LEU:HA	3:C:342:ILE:CG1	2.48	0.43
3:C:373:LEU:HA	3:C:376:ILE:CG1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:398:THR:HG21	7:G:213:VAL:HB	1.99	0.43
4:D:73:LEU:HA	4:D:76:LEU:HD12	2.00	0.43
5:E:106:ARG:NH1	9:N:125:ARG:HA	2.34	0.43
5:E:246:TRP:CH2	6:F:231:LEU:HD23	2.53	0.43
5:E:323:ILE:O	5:E:327:LEU:HG	2.18	0.43
6:F:270:LEU:HD12	6:F:274:LYS:HE3	2.00	0.43
7:G:18:LEU:HB3	7:G:30:LEU:HD13	2.00	0.43
7:G:63:TYR:HA	7:G:86:PRO:HG2	2.00	0.43
7:G:92:GLN:HA	7:G:95:LYS:HB2	1.99	0.43
7:G:188:ILE:CB	8:H:197:LEU:CD2	2.85	0.43
8:H:31:ILE:HD13	8:H:61:PRO:HG2	2.00	0.43
9:N:105:VAL:HG12	9:N:167:LEU:CD1	2.43	0.43
9:N:144:ILE:HG13	9:N:149:GLN:CG	2.40	0.43
10:O:17:LEU:HD22	10:O:61:THR:C	2.38	0.43
10:O:81:GLU:HA	10:O:84:LEU:CD1	2.31	0.43
10:O:160:ILE:O	10:O:163:LEU:HB2	2.18	0.43
10:O:472:LYS:HA	10:O:475:ARG:NH1	2.30	0.43
10:O:472:LYS:HZ3	10:O:516:ALA:HB2	1.84	0.43
10:O:508:GLN:OE1	13:R:28:ASN:HB2	2.18	0.43
1:A:79:ASN:CG	1:A:390:LEU:HD11	2.39	0.43
1:A:95:MET:HA	1:A:98:GLU:CD	2.39	0.43
1:A:184:ASP:HA	1:A:187:ASN:ND2	2.29	0.43
1:A:230:SER:N	1:A:233:HIS:HB2	2.33	0.43
1:A:360:PRO:HA	1:A:363:ARG:NE	2.33	0.43
2:B:372:PRO:O	2:B:375:SER:HB3	2.19	0.43
3:C:27:LEU:HD23	3:C:63:PHE:CE2	2.53	0.43
3:C:105:HIS:HA	3:C:108:THR:CB	2.48	0.43
3:C:116:GLN:HE22	3:C:153:LYS:H	1.65	0.43
3:C:221:LEU:C	3:C:225:LYS:HE2	2.38	0.43
5:E:138:HIS:CD2	5:E:145:CYS:HB3	2.53	0.43
5:E:179:GLY:HA2	6:F:198:ILE:CD1	2.47	0.43
5:E:316:HIS:O	5:E:319:MET:HB2	2.17	0.43
6:F:57:ARG:HG2	6:F:61:GLN:NE2	2.33	0.43
6:F:82:GLU:HG3	6:F:189:THR:C	2.38	0.43
7:G:12:LEU:HG	7:G:13:GLU:N	2.33	0.43
7:G:22:THR:CB	7:G:26:ALA:HB1	2.41	0.43
7:G:42:VAL:HA	7:G:67:LEU:HD11	1.99	0.43
9:N:101:MSE:HB3	9:N:117:ILE:CG1	2.40	0.43
9:N:119:PRO:O	9:N:157:ALA:HB3	2.19	0.43
10:O:6:ARG:CG	10:O:52:PRO:HG2	2.43	0.43
10:O:20:THR:CB	10:O:38:ARG:HD3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:24:VAL:O	10:O:24:VAL:HG22	2.18	0.43
10:O:45:LEU:HD21	10:O:60:GLU:CB	2.46	0.43
10:O:66:GLU:O	10:O:70:ARG:HG2	2.18	0.43
10:O:107:TYR:CG	12:Q:96:TYR:CA	2.99	0.43
10:O:207:PHE:CE2	10:O:259:TYR:HB3	2.53	0.43
10:O:227:LEU:HD12	10:O:227:LEU:HA	1.83	0.43
10:O:260:THR:HA	10:O:263:ILE:H	1.82	0.43
10:O:537:VAL:HG23	10:O:553:LEU:HD12	2.00	0.43
10:O:571:LYS:HD3	10:O:642:MET:CA	2.39	0.43
10:O:725:LEU:HD22	10:O:730:TYR:HD2	1.82	0.43
11:P:15:PHE:HD2	12:Q:18:ILE:CD1	2.31	0.43
13:R:48:HIS:H	13:R:51:ASP:HB3	1.83	0.43
1:A:79:ASN:HB3	1:A:390:LEU:CD1	2.45	0.43
1:A:109:THR:HA	1:A:112:VAL:CG2	2.47	0.43
1:A:214:LEU:O	1:A:217:ALA:HB3	2.17	0.43
1:A:234:VAL:HG11	1:A:265:PRO:HB2	2.00	0.43
1:A:468:ARG:HH22	6:F:281:ASP:HA	0.59	0.43
1:A:488:ALA:HB2	3:C:203:TYR:CE1	2.53	0.43
2:B:31:ASP:OD1	2:B:32:LEU:N	2.51	0.43
2:B:265:TYR:CE2	2:B:270:SER:HA	2.54	0.43
2:B:280:LEU:HG	2:B:284:ASN:ND2	2.32	0.43
3:C:75:GLU:O	3:C:79:SER:N	2.47	0.43
3:C:253:ILE:CA	3:C:256:LEU:HB2	2.45	0.43
3:C:335:GLU:HA	3:C:338:VAL:HB	2.00	0.43
3:C:355:ASP:HB2	3:C:357:MET:HG2	1.99	0.43
4:D:186:HIS:O	4:D:189:VAL:HG22	2.18	0.43
4:D:263:ILE:O	4:D:266:LYS:HB2	2.19	0.43
4:D:365:GLU:O	6:F:270:LEU:HG	2.17	0.43
5:E:106:ARG:NH2	9:N:124:GLU:O	2.47	0.43
5:E:158:ASN:HA	5:E:161:PHE:CB	2.35	0.43
5:E:189:TYR:CE2	5:E:195:PRO:HB3	2.52	0.43
5:E:322:VAL:CA	6:F:279:PHE:CZ	3.01	0.43
6:F:70:GLY:HA3	6:F:125:TYR:CD1	2.54	0.43
6:F:143:CYS:HA	6:F:149:PRO:CG	2.46	0.43
6:F:239:LEU:HD12	7:G:172:ARG:NH2	2.32	0.43
7:G:71:ALA:CB	7:G:164:LYS:H	2.28	0.43
8:H:76:SER:HA	8:H:79:GLN:OE1	2.17	0.43
8:H:129:ILE:HG22	8:H:131:ASP:HB2	2.00	0.43
8:H:164:PRO:HB2	8:H:166:LYS:HZ2	1.83	0.43
9:N:105:VAL:HG23	9:N:113:ILE:HB	2.00	0.43
10:O:14:TRP:O	10:O:14:TRP:CE3	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:59:THR:HG22	10:O:63:ILE:CD1	2.48	0.43
10:O:76:VAL:CB	10:O:154:PRO:HB3	2.48	0.43
10:O:279:HIS:O	10:O:310:HIS:CG	2.71	0.43
10:O:294:MET:O	10:O:297:MET:HB3	2.17	0.43
10:O:433:LYS:CE	10:O:674:GLU:OE2	2.65	0.43
10:O:547:HIS:HB3	10:O:548:PHE:CD2	2.53	0.43
10:O:727:ASP:OD2	13:R:46:ARG:CB	2.48	0.43
11:P:23:THR:HA	11:P:55:LYS:O	2.18	0.43
1:A:163:ASP:CG	1:A:166:TRP:HB3	2.39	0.43
1:A:255:LEU:HD11	1:A:292:ALA:CB	2.48	0.43
1:A:277:GLN:OE1	1:A:282:LEU:HG	2.19	0.43
2:B:47:PRO:HD3	2:B:82:LEU:HD12	2.00	0.43
2:B:384:ASP:O	2:B:388:LEU:HD23	2.18	0.43
3:C:51:VAL:CB	3:C:90:GLY:HA3	2.49	0.43
3:C:242:PRO:HB2	3:C:244:TYR:HE1	1.84	0.43
4:D:52:MET:HB3	4:D:66:LEU:HD11	2.00	0.43
4:D:271:ARG:NE	7:G:137:TYR:OH	2.48	0.43
4:D:366:ALA:HA	6:F:270:LEU:HG	2.00	0.43
5:E:238:LEU:CD2	6:F:200:VAL:HG22	2.48	0.43
5:E:316:HIS:CE1	8:H:207:LEU:CD1	3.01	0.43
6:F:73:ILE:HG12	6:F:85:ASN:O	2.17	0.43
7:G:60:ASN:HB3	7:G:63:TYR:HB3	1.99	0.43
8:H:134:ALA:HB2	8:H:144:ALA:HB2	2.00	0.43
8:H:159:THR:OG1	8:H:161:MET:HG2	2.17	0.43
10:O:42:ILE:O	10:O:108:LEU:HD22	2.18	0.43
10:O:62:LYS:HA	10:O:142:LEU:HD21	2.00	0.43
10:O:394:TYR:CD2	10:O:418:PHE:HZ	2.36	0.43
11:P:45:TYR:OH	11:P:78:ALA:HB2	2.19	0.43
11:P:82:ASP:HA	15:P:284:HOH:O	2.19	0.43
12:Q:46:LEU:HD23	12:Q:46:LEU:HA	1.86	0.43
1:A:209:LEU:HD23	1:A:214:LEU:CD2	2.49	0.43
1:A:436:LEU:CD1	1:A:440:LEU:HD11	2.48	0.43
2:B:100:ARG:CZ	2:B:141:ASP:HB2	2.48	0.43
2:B:139:LEU:HD22	2:B:147:LEU:CD1	2.49	0.43
2:B:312:THR:O	2:B:315:VAL:HG22	2.19	0.43
3:C:137:GLN:CG	3:C:168:ASP:HB3	2.48	0.43
3:C:159:LEU:CA	3:C:162:LEU:HG	2.47	0.43
3:C:255:PRO:O	3:C:258:ASN:HB2	2.18	0.43
4:D:237:SER:OG	4:D:347:ARG:NH2	2.51	0.43
4:D:271:ARG:HA	7:G:137:TYR:OH	2.18	0.43
5:E:45:TRP:CD1	5:E:46:THR:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:170:ILE:HD11	5:E:183:LEU:CD1	2.47	0.43
5:E:173:THR:CA	5:E:176:ILE:HD12	2.38	0.43
5:E:187:ARG:HG3	5:E:224:LEU:CD1	2.48	0.43
5:E:194:LYS:O	5:E:196:PRO:HD3	2.19	0.43
5:E:217:HIS:HD1	5:E:220:GLN:CD	2.22	0.43
5:E:243:ASN:C	6:F:226:SER:O	2.55	0.43
5:E:246:TRP:CH2	5:E:247:VAL:HG22	2.53	0.43
6:F:272:THR:CG2	6:F:274:LYS:HE2	2.49	0.43
7:G:27:LEU:CD2	7:G:55:LEU:HA	2.48	0.43
7:G:56:ALA:HA	7:G:64:LEU:HB2	2.00	0.43
9:N:123:VAL:CG1	9:N:126:ILE:HD12	2.47	0.43
9:N:136:ILE:HG13	9:N:175:GLY:CA	2.49	0.43
10:O:81:GLU:O	10:O:84:LEU:HB2	2.19	0.43
10:O:107:TYR:CE2	12:Q:96:TYR:N	2.83	0.43
10:O:161:ARG:O	10:O:164:LEU:HB2	2.19	0.43
10:O:218:TYR:HA	10:O:221:GLN:CG	2.48	0.43
10:O:401:LYS:HA	10:O:449:MET:HE1	2.01	0.43
10:O:568:TYR:H	13:R:20:LYS:C	2.21	0.43
10:O:676:ARG:NH2	10:O:710:ARG:CA	2.80	0.43
12:Q:9:VAL:O	12:Q:47:LYS:N	2.51	0.43
13:R:35:TRP:HZ2	13:R:39:VAL:HG12	1.83	0.43
1:A:260:LYS:CG	1:A:265:PRO:HD3	2.48	0.43
1:A:468:ARG:O	1:A:471:THR:HB	2.19	0.43
2:B:194:LEU:HG	2:B:198:TYR:CZ	2.53	0.43
2:B:198:TYR:HB3	2:B:218:TYR:CZ	2.54	0.43
3:C:103:LEU:CG	3:C:107:LEU:HD23	2.48	0.43
3:C:233:ILE:HA	3:C:301:SER:HB2	2.00	0.43
4:D:261:TYR:O	4:D:265:GLU:N	2.48	0.43
5:E:25:ILE:HD12	5:E:232:SER:HB3	1.99	0.43
5:E:183:LEU:HD22	5:E:226:VAL:CG2	2.44	0.43
5:E:209:ASN:OD1	5:E:210:LYS:HG2	2.19	0.43
5:E:272:LYS:CA	5:E:275:GLN:HG2	2.46	0.43
5:E:330:GLN:O	5:E:331:ILE:HD13	2.18	0.43
6:F:83:VAL:HG21	6:F:150:LEU:HD21	2.01	0.43
6:F:254:HIS:ND1	6:F:258:ARG:HD3	2.33	0.43
6:F:255:GLU:HB3	6:F:258:ARG:HH21	1.84	0.43
6:F:260:ALA:HB1	7:G:174:LEU:HD11	1.62	0.43
7:G:40:VAL:HG22	7:G:162:ILE:HD11	2.00	0.43
8:H:80:ARG:N	8:H:80:ARG:HD2	2.34	0.43
8:H:156:ASP:OD1	8:H:157:SER:N	2.51	0.43
10:O:104:LEU:HD23	12:Q:32:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:260:THR:CA	10:O:262:VAL:HG12	2.49	0.43
10:O:285:ILE:CD1	10:O:293:ASP:HB2	2.48	0.43
10:O:336:PRO:CA	10:O:390:LEU:HD13	2.49	0.43
10:O:409:ASN:H	10:O:412:GLU:HG3	1.83	0.43
10:O:544:TYR:CZ	13:R:33:TRP:CD1	2.58	0.43
10:O:565:LYS:HD2	13:R:25:LYS:HG2	0.96	0.43
10:O:571:LYS:H	10:O:642:MET:HE1	1.84	0.43
10:O:596:TYR:HB3	10:O:634:ALA:CA	2.48	0.43
11:P:3:VAL:HG23	11:P:5:LEU:CG	2.49	0.43
11:P:25:PHE:CB	11:P:53:ASP:HB3	2.29	0.43
12:Q:41:LYS:CD	12:Q:41:LYS:C	2.86	0.43
1:A:373:LYS:HZ2	1:A:375:ALA:HB3	1.84	0.43
1:A:420:ALA:C	1:A:459:ILE:HG23	2.39	0.43
2:B:18:LEU:HA	2:B:27:GLU:CB	2.49	0.43
2:B:211:ASN:O	2:B:214:LEU:HB2	2.19	0.43
2:B:310:ALA:HA	2:B:313:ASN:HD22	1.83	0.43
2:B:314:LEU:HD21	2:B:329:ILE:HD13	2.00	0.43
2:B:323:ILE:CD1	2:B:355:ARG:HA	2.47	0.43
2:B:390:VAL:CA	2:B:393:ILE:HG12	2.48	0.43
3:C:202:LEU:HD11	3:C:231:SER:CB	2.44	0.43
3:C:348:PHE:HA	3:C:361:HIS:HD2	1.84	0.43
3:C:403:PHE:CE1	6:F:311:VAL:HG12	2.46	0.43
4:D:42:LEU:HD13	4:D:80:THR:HG21	2.00	0.43
4:D:168:ILE:HD12	4:D:169:ASN:N	2.33	0.43
4:D:376:SER:O	4:D:380:GLN:HG3	2.19	0.43
5:E:59:ALA:HB3	6:F:46:LEU:CD1	2.48	0.43
5:E:63:LEU:CA	6:F:44:HIS:HB2	2.49	0.43
5:E:239:GLU:HG2	5:E:243:ASN:HD21	1.83	0.43
6:F:109:GLU:HB2	6:F:113:LYS:HE2	2.00	0.43
6:F:196:GLU:O	6:F:200:VAL:HG23	2.19	0.43
6:F:243:LYS:HA	7:G:172:ARG:NH1	2.33	0.43
7:G:22:THR:HB	7:G:26:ALA:CB	2.44	0.43
7:G:178:CYS:O	7:G:182:GLU:HG3	2.18	0.43
8:H:33:THR:CG2	8:H:35:PRO:HD2	2.49	0.43
8:H:80:ARG:HB3	8:H:89:ILE:HG13	2.00	0.43
8:H:93:ILE:CD1	8:H:110:ARG:HD3	2.46	0.43
9:N:101:MSE:CE	9:N:119:PRO:HA	2.49	0.43
9:N:105:VAL:HG23	9:N:113:ILE:HD12	2.01	0.43
10:O:25:VAL:HG12	10:O:68:HIS:HA	2.00	0.43
10:O:70:ARG:HH11	10:O:73:HIS:CB	2.31	0.43
10:O:347:HIS:O	10:O:351:VAL:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:409:ASN:H	10:O:412:GLU:CG	2.32	0.43
10:O:471:SER:HA	10:O:474:HIS:CD2	2.53	0.43
10:O:550:GLY:CA	13:R:36:ASP:CA	2.96	0.43
10:O:557:HIS:O	10:O:560:CYS:N	2.24	0.43
10:O:633:ASP:HB2	10:O:636:SER:HB2	1.99	0.43
10:O:657:MET:CB	10:O:659:LYS:HZ3	2.06	0.43
11:P:41:GLU:HG2	15:P:222:HOH:O	2.19	0.43
11:P:70:GLN:HB2	15:P:292:HOH:O	2.18	0.43
1:A:104:ALA:HA	1:A:111:ARG:HA	2.00	0.43
1:A:108:PRO:HA	1:A:111:ARG:HB2	2.01	0.43
1:A:128:VAL:HG13	1:A:131:TYR:CB	2.49	0.43
1:A:411:ILE:HA	1:A:414:PHE:HE1	1.81	0.43
2:B:24:SER:CA	10:O:652:LYS:NZ	2.80	0.43
2:B:58:LEU:HD13	2:B:72:LEU:CD2	2.45	0.43
2:B:76:ILE:CD1	2:B:88:MET:HG2	2.49	0.43
2:B:76:ILE:CA	2:B:88:MET:HG2	2.47	0.43
2:B:77:LYS:HG3	2:B:80:PHE:CZ	2.53	0.43
2:B:258:PHE:HB2	2:B:280:LEU:HD13	2.01	0.43
2:B:424:LEU:HD11	5:E:263:THR:HB	2.01	0.43
2:B:442:LEU:CD2	6:F:309:PHE:CZ	2.98	0.43
3:C:149:CYS:HA	3:C:154:CYS:O	2.18	0.43
3:C:235:LEU:CD1	3:C:239:GLN:HB2	2.49	0.43
3:C:295:VAL:O	3:C:298:CYS:HB2	2.19	0.43
5:E:70:ARG:NH1	5:E:176:ILE:HD13	2.34	0.43
5:E:276:SER:HA	5:E:299:LYS:HB2	2.00	0.43
5:E:304:THR:CG2	6:F:300:ASN:HD22	2.32	0.43
7:G:97:LYS:O	7:G:100:THR:HG22	2.18	0.43
8:H:81:ILE:C	8:H:84:ARG:H	2.22	0.43
8:H:142:GLU:HA	8:H:145:VAL:HB	2.01	0.43
8:H:153:TRP:HE1	8:H:165:ARG:CG	2.27	0.43
10:O:211:PHE:HD2	10:O:259:TYR:CA	2.32	0.43
10:O:354:ILE:HA	10:O:358:LEU:HB2	2.00	0.43
10:O:433:LYS:HD3	10:O:518:PRO:CA	2.49	0.43
11:P:8:ARG:O	11:P:88:LEU:HD22	2.19	0.43
12:Q:1:MET:HA	12:Q:40:SER:HB3	0.92	0.43
12:Q:26:SER:C	12:Q:28:THR:OG1	2.57	0.43
13:R:33:TRP:HA	13:R:34:ALA:N	2.28	0.43
13:R:77:HIS:ND1	13:R:77:HIS:O	2.52	0.43
1:A:97:ILE:O	1:A:101:GLN:HG3	2.18	0.43
1:A:119:LEU:HD12	1:A:119:LEU:HA	1.84	0.43
1:A:410:LEU:HD13	1:A:414:PHE:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:442:GLN:O	1:A:445:LEU:N	2.51	0.43
2:B:169:GLN:HG3	2:B:173:ARG:NE	2.34	0.43
3:C:69:PRO:HG2	3:C:106:GLN:HE21	1.83	0.43
3:C:84:PHE:O	3:C:89:ASN:HA	2.19	0.43
3:C:94:ARG:NH1	3:C:139:THR:HB	2.33	0.43
3:C:221:LEU:HA	3:C:224:TYR:CE1	2.54	0.43
4:D:370:TRP:CD1	6:F:270:LEU:HD23	2.53	0.43
6:F:257:LEU:HD12	7:G:171:ALA:N	2.30	0.43
7:G:126:ARG:HD3	7:G:126:ARG:H	1.84	0.43
8:H:17:LEU:HB2	8:H:46:LEU:HD12	2.00	0.43
8:H:57:TRP:CZ2	8:H:65:LYS:HD3	2.54	0.43
8:H:80:ARG:C	8:H:89:ILE:HD11	2.39	0.43
8:H:102:VAL:C	8:H:106:MET:HG2	2.39	0.43
10:O:211:PHE:O	10:O:215:THR:CB	2.67	0.43
10:O:336:PRO:HG3	10:O:390:LEU:HB3	2.00	0.43
10:O:349:LYS:HG2	10:O:350:PHE:CE1	2.54	0.43
10:O:521:GLN:HB3	10:O:556:LEU:CD2	2.49	0.43
11:P:13:THR:O	12:Q:17:GLU:CB	2.66	0.43
11:P:42:GLN:C	11:P:80:ARG:HG3	2.39	0.43
12:Q:45:GLU:CD	12:Q:46:LEU:O	2.33	0.43
1:A:197:ILE:HG21	1:A:227:TYR:CD1	2.54	0.42
1:A:410:LEU:HA	1:A:413:TYR:HE1	1.80	0.42
1:A:467:GLN:O	1:A:470:THR:HB	2.19	0.42
2:B:30:VAL:O	2:B:33:GLU:N	2.49	0.42
2:B:136:LEU:O	2:B:148:TRP:HZ3	2.02	0.42
2:B:154:LYS:O	2:B:157:LYS:HB2	2.19	0.42
2:B:297:GLN:HE22	13:R:70:VAL:N	2.17	0.42
2:B:311:MET:SD	2:B:314:LEU:HD12	2.59	0.42
3:C:214:MET:CE	3:C:248:ILE:HG12	2.48	0.42
3:C:306:ASN:HD22	3:C:326:VAL:HG12	1.83	0.42
4:D:181:GLU:OE1	4:D:181:GLU:N	2.45	0.42
5:E:34:LYS:O	5:E:38:GLU:HG3	2.19	0.42
5:E:63:LEU:HD13	6:F:47:VAL:HG22	2.00	0.42
5:E:63:LEU:HD13	6:F:47:VAL:CG2	2.49	0.42
5:E:158:ASN:HA	5:E:161:PHE:CD2	2.54	0.42
5:E:276:SER:HB2	5:E:300:LEU:CA	2.49	0.42
5:E:312:ILE:CG1	8:H:207:LEU:O	2.66	0.42
6:F:57:ARG:HD3	6:F:88:GLU:CD	2.39	0.42
6:F:254:HIS:CE1	7:G:163:ARG:NH1	2.86	0.42
7:G:11:LEU:HG	7:G:12:LEU:N	2.35	0.42
7:G:12:LEU:HG	7:G:13:GLU:H	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:116:ASP:O	9:N:129:ARG:NH2	2.52	0.42
10:O:140:GLY:HA2	10:O:143:ALA:HB3	2.01	0.42
10:O:337:THR:O	10:O:341:GLU:CA	2.66	0.42
10:O:389:GLU:HG2	10:O:434:PHE:CD2	2.54	0.42
10:O:443:LEU:CD1	10:O:476:MET:HE3	2.49	0.42
10:O:472:LYS:HD2	10:O:513:GLN:CB	2.49	0.42
10:O:472:LYS:HG3	10:O:512:LEU:CD1	2.49	0.42
10:O:644:PHE:CE2	10:O:650:LYS:HA	2.54	0.42
10:O:656:SER:OG	10:O:658:GLN:CG	2.62	0.42
10:O:744:VAL:CG1	10:O:745:ALA:N	2.81	0.42
11:P:5:LEU:HD11	11:P:57:LEU:HD13	2.01	0.42
13:R:95:PRO:HA	13:R:98:ASN:HA	2.01	0.42
1:A:209:LEU:HD23	1:A:214:LEU:HD22	2.00	0.42
1:A:230:SER:O	1:A:233:HIS:HB2	2.19	0.42
1:A:231:ALA:HB1	1:A:271:ARG:NH1	2.34	0.42
1:A:403:THR:HG22	1:A:407:ASN:ND2	2.34	0.42
1:A:478:MET:HG2	1:A:482:PHE:CE2	2.54	0.42
2:B:17:ASP:CB	2:B:64:LYS:HD3	2.47	0.42
2:B:322:ASP:HB3	2:B:325:GLU:CG	2.49	0.42
2:B:418:GLY:O	2:B:421:TYR:HB2	2.19	0.42
3:C:138:LEU:HD11	3:C:184:TYR:CZ	2.53	0.42
3:C:150:LEU:CD2	3:C:190:MET:HB2	2.49	0.42
4:D:149[B]:LEU:HD22	4:D:153:ARG:NE	2.34	0.42
4:D:170:ARG:O	4:D:173:LEU:HD21	2.19	0.42
5:E:36:GLN:OE1	5:E:84:LYS:HB2	2.19	0.42
5:E:59:ALA:N	6:F:46:LEU:HD13	2.29	0.42
5:E:77:VAL:CG1	5:E:98:LEU:HB2	2.49	0.42
5:E:195:PRO:HG3	5:E:219:LYS:O	2.19	0.42
7:G:129:GLU:CA	7:G:132:ILE:HD12	2.47	0.42
7:G:175:GLN:O	7:G:179:VAL:HG23	2.18	0.42
7:G:185:LEU:O	7:G:188:ILE:HB	2.18	0.42
8:H:25:LEU:O	8:H:28:PRO:HD2	2.18	0.42
10:O:108:LEU:HD12	10:O:108:LEU:HA	1.77	0.42
10:O:508:GLN:OE1	13:R:28:ASN:ND2	2.50	0.42
10:O:525:SER:H	10:O:557:HIS:CE1	2.37	0.42
10:O:575:ALA:HB1	10:O:653:ILE:CG1	2.26	0.42
10:O:623:ILE:HG12	10:O:625:HIS:HB3	2.00	0.42
11:P:41:GLU:HA	15:P:222:HOH:O	2.18	0.42
1:A:281:ILE:H	1:A:281:ILE:HD12	1.84	0.42
1:A:478:MET:SD	1:A:479:GLY:N	2.92	0.42
2:B:241:GLY:HA2	2:B:244:MET:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:347:ILE:HG23	2:B:348:GLU:N	2.34	0.42
3:C:103:LEU:HD12	3:C:103:LEU:HA	1.69	0.42
3:C:237:LYS:HD2	3:C:267:TYR:HE2	1.83	0.42
3:C:310:LEU:HD21	3:C:326:VAL:HG22	2.01	0.42
4:D:224:GLU:OE2	4:D:228:HIS:NE2	2.53	0.42
5:E:170:ILE:HD11	5:E:183:LEU:CB	2.49	0.42
5:E:200:PRO:HG2	5:E:223:ALA:HB3	2.00	0.42
6:F:124:TRP:CE2	6:F:138:VAL:HB	2.54	0.42
6:F:188:TYR:HD2	6:F:189:THR:O	2.01	0.42
7:G:15:PHE:CZ	7:G:34:VAL:HA	2.54	0.42
7:G:146:ASP:OD2	7:G:151:LEU:HB2	2.20	0.42
9:N:103:ILE:CD1	9:N:117:ILE:HD13	2.49	0.42
10:O:26:MET:O	10:O:26:MET:HG2	2.18	0.42
10:O:351:VAL:O	10:O:355:ASN:HB2	2.18	0.42
10:O:379:ARG:NH1	10:O:385:CYS:HA	2.34	0.42
10:O:550:GLY:HA2	13:R:36:ASP:HA	2.00	0.42
10:O:573:TYR:CG	10:O:650:LYS:HB2	2.54	0.42
13:R:41:ASN:CA	13:R:49:ILE:HB	2.32	0.42
13:R:49:ILE:HD12	13:R:80:HIS:NE2	2.34	0.42
1:A:327:ILE:CG1	1:A:359:GLU:HG3	2.49	0.42
1:A:333:ALA:HA	1:A:336:THR:OG1	2.20	0.42
1:A:342:LEU:CA	1:A:345:ASN:HB2	2.38	0.42
2:B:76:ILE:HD13	2:B:91:ARG:HB2	2.01	0.42
2:B:106:ASN:HD21	10:O:401:LYS:NZ	2.06	0.42
2:B:316:SER:O	2:B:319:GLN:HB3	2.19	0.42
2:B:368:ARG:HB3	2:B:410:GLU:HA	2.01	0.42
2:B:428:THR:HA	2:B:431:LEU:CD1	2.44	0.42
3:C:93:ILE:O	3:C:96:ALA:HB3	2.19	0.42
3:C:94:ARG:HE	3:C:170:CYS:CB	2.33	0.42
3:C:111:LEU:O	3:C:116:GLN:N	2.52	0.42
4:D:137:LYS:NZ	4:D:138:GLN:O	2.49	0.42
5:E:57:ILE:HD12	5:E:226:VAL:HG13	2.02	0.42
5:E:113:ALA:CA	9:N:128:GLU:HG2	2.29	0.42
6:F:294:THR:OG1	6:F:295:ILE:HG13	2.19	0.42
7:G:45:GLU:O	7:G:48:GLU:HB3	2.20	0.42
7:G:181:CYS:O	7:G:185:LEU:HG	2.20	0.42
7:G:201:GLN:HE21	7:G:205:LEU:CD1	2.26	0.42
8:H:137:VAL:HG23	8:H:139:LEU:HG	2.01	0.42
10:O:21:ILE:HG12	10:O:38:ARG:NH1	2.34	0.42
10:O:96:LYS:HE2	10:O:100:TYR:HE2	1.83	0.42
10:O:235:TYR:HD2	10:O:278:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:386:LYS:O	10:O:390:LEU:HG	2.20	0.42
10:O:390:LEU:CA	10:O:393:LYS:HD2	2.49	0.42
10:O:392:ALA:CA	10:O:395:CYS:HB2	2.48	0.42
10:O:513:GLN:N	10:O:516:ALA:HB3	2.34	0.42
10:O:620:VAL:HG13	10:O:644:PHE:CD1	2.55	0.42
10:O:696:HIS:NE2	10:O:719:LYS:CG	2.83	0.42
10:O:725:LEU:HD23	10:O:725:LEU:HA	1.69	0.42
11:P:95:SER:HA	12:Q:52:HIS:HE1	1.78	0.42
12:Q:43:ARG:NE	12:Q:43:ARG:HA	2.34	0.42
13:R:99:ARG:HD2	13:R:100:GLU:N	2.34	0.42
1:A:342:LEU:HA	1:A:342:LEU:HD12	1.86	0.42
1:A:431:THR:CG2	1:A:436:LEU:HD23	2.50	0.42
1:A:449:ILE:HG13	1:A:451:ALA:HB2	2.01	0.42
3:C:13:ARG:NE	3:C:45:VAL:HB	2.30	0.42
3:C:132:GLN:HB2	3:C:137:GLN:H	1.85	0.42
3:C:233:ILE:CG1	3:C:301:SER:HB3	2.50	0.42
5:E:28:ILE:HD13	5:E:229:PHE:CB	2.49	0.42
5:E:116:TYR:HB2	9:N:132:GLU:CG	2.47	0.42
5:E:185:ALA:O	5:E:223:ALA:HA	2.19	0.42
5:E:245:TYR:HD2	6:F:223:ALA:HB1	1.83	0.42
6:F:35:VAL:H	6:F:170:SER:C	2.23	0.42
6:F:138:VAL:HA	6:F:141:GLN:CD	2.40	0.42
6:F:154:LEU:HD23	6:F:155:ASN:N	2.34	0.42
6:F:234:ARG:O	6:F:238:ILE:HG13	2.20	0.42
6:F:239:LEU:HD12	7:G:172:ARG:HH22	1.85	0.42
7:G:69:LEU:O	7:G:73:GLY:N	2.53	0.42
7:G:165:LYS:CD	7:G:167:LEU:HD13	2.49	0.42
8:H:28:PRO:HA	8:H:30:GLY:N	2.34	0.42
8:H:52:ASN:O	8:H:55:TYR:HB3	2.20	0.42
9:N:118:GLU:HB3	9:N:119:PRO:HD2	2.00	0.42
10:O:16:LYS:CE	10:O:36:ASN:O	2.67	0.42
10:O:21:ILE:HG12	10:O:68:HIS:CD2	2.55	0.42
10:O:146:MET:HE2	10:O:146:MET:HA	2.02	0.42
10:O:375:VAL:C	10:O:378:TYR:H	2.23	0.42
10:O:398:LEU:CD2	10:O:404:LYS:HB3	2.49	0.42
10:O:413:ASP:O	10:O:416:THR:HG22	2.19	0.42
10:O:575:ALA:CB	10:O:650:LYS:HG2	2.29	0.42
10:O:644:PHE:CD2	10:O:650:LYS:HA	2.55	0.42
11:P:3:VAL:CA	11:P:67:ALA:HB3	2.49	0.42
11:P:8:ARG:O	11:P:88:LEU:HD13	2.19	0.42
11:P:97:PRO:HG2	15:P:234:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:LEU:HD23	1:A:186:LYS:HZ2	1.85	0.42
1:A:247:TYR:HA	1:A:249:GLN:HE21	1.82	0.42
1:A:258:VAL:HG13	1:A:285:LEU:CD2	2.46	0.42
1:A:262:GLU:HG2	1:A:282:LEU:HD23	2.01	0.42
1:A:369:PHE:HB2	1:A:377:CYS:SG	2.60	0.42
1:A:408:ARG:CD	1:A:411:ILE:HD12	2.50	0.42
2:B:146:ARG:HG3	2:B:193:GLN:NE2	2.35	0.42
2:B:198:TYR:CE2	2:B:224:ILE:HD11	2.53	0.42
2:B:297:GLN:HA	13:R:71:ALA:HB2	2.01	0.42
3:C:26:GLU:H	3:C:55:SER:CA	2.33	0.42
3:C:105:HIS:HA	3:C:108:THR:HB	2.00	0.42
3:C:266:VAL:HG13	3:C:274:GLU:OE2	2.20	0.42
3:C:353:GLN:CB	8:H:128:ILE:HA	2.50	0.42
3:C:396:GLU:OE1	3:C:399:VAL:HG21	2.20	0.42
5:E:60:LEU:HA	5:E:63:LEU:HG	2.01	0.42
5:E:111:ALA:O	9:N:129:ARG:HD2	1.63	0.42
5:E:190:PRO:HD2	5:E:193:TYR:HB3	2.01	0.42
5:E:322:VAL:CA	6:F:279:PHE:HZ	2.32	0.42
6:F:69:ILE:CG2	6:F:100:ILE:HD11	2.49	0.42
8:H:50:MET:HB2	8:H:82:TRP:HZ2	1.82	0.42
9:N:136:ILE:HG21	9:N:169:LEU:CD2	2.45	0.42
9:N:142:ARG:O	10:O:690:ALA:O	2.38	0.42
10:O:10:PHE:HA	10:O:45:LEU:HD23	2.01	0.42
10:O:45:LEU:CD2	10:O:60:GLU:HB2	2.48	0.42
10:O:108:LEU:HG	10:O:112:PHE:CD1	2.51	0.42
10:O:113:ILE:HB	10:O:117:LYS:CE	2.50	0.42
10:O:140:GLY:HA2	10:O:143:ALA:CB	2.50	0.42
10:O:295:ALA:O	10:O:298:TYR:HB3	2.19	0.42
10:O:479:ASP:OD2	10:O:511:VAL:N	2.53	0.42
10:O:508:GLN:CD	13:R:28:ASN:HB3	2.40	0.42
10:O:692:LYS:HB3	10:O:743:TYR:CB	2.49	0.42
11:P:19:LYS:N	15:P:237:HOH:O	2.22	0.42
11:P:38:PRO:HD3	15:P:247:HOH:O	2.19	0.42
13:R:77:HIS:NE2	13:R:99:ARG:O	2.53	0.42
13:R:87:TRP:HD1	13:R:96:LEU:HG	1.84	0.42
1:A:101:GLN:HE21	1:A:134:ILE:HD11	1.85	0.42
1:A:234:VAL:HB	1:A:271:ARG:HH22	1.83	0.42
1:A:307:LEU:HD12	1:A:308:LEU:N	2.34	0.42
1:A:373:LYS:CD	1:A:376:SER:H	2.32	0.42
1:A:436:LEU:HA	1:A:439:GLU:OE1	2.20	0.42
2:B:37:TYR:HD1	2:B:53:SER:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:57:VAL:HG11	2:B:71:ALA:CB	2.50	0.42
3:C:5:LEU:HA	3:C:8:PHE:CD2	2.55	0.42
3:C:12:VAL:O	3:C:49:LEU:HD21	2.19	0.42
3:C:30:LYS:C	3:C:103:LEU:HB2	2.40	0.42
3:C:132:GLN:CD	3:C:136:ASN:HA	2.40	0.42
3:C:389:ARG:NH2	3:C:392:ALA:HB2	2.21	0.42
4:D:293:THR:OG1	4:D:297:SER:O	2.27	0.42
5:E:64:LYS:HZ1	6:F:44:HIS:CE1	2.37	0.42
5:E:99:PRO:HG2	9:N:131:GLU:OE1	2.19	0.42
6:F:43:LEU:CB	6:F:191:ALA:HB2	2.47	0.42
6:F:73:ILE:HD11	6:F:85:ASN:HB3	2.02	0.42
6:F:314:ASP:OD1	6:F:315:ARG:N	2.49	0.42
7:G:180:GLY:O	7:G:183:VAL:HG22	2.20	0.42
7:G:206:LYS:O	7:G:210:GLU:HG3	2.19	0.42
8:H:61:PRO:O	8:H:64:ILE:HB	2.19	0.42
8:H:153:TRP:CZ2	8:H:164:PRO:HA	2.54	0.42
10:O:26:MET:HB3	10:O:71:HIS:CE1	2.55	0.42
10:O:53:LEU:HA	10:O:56:ARG:NH1	2.35	0.42
10:O:109:ASN:HB3	10:O:138:GLU:CD	2.39	0.42
10:O:147:TRP:O	10:O:150:LEU:HB3	2.20	0.42
10:O:151:MET:HA	10:O:155:LEU:HD23	2.01	0.42
10:O:281:GLU:HG3	10:O:297:MET:HE1	2.01	0.42
10:O:368:LEU:O	10:O:372:LEU:HD23	2.19	0.42
10:O:472:LYS:CD	10:O:513:GLN:H	2.22	0.42
10:O:593:THR:OG1	10:O:637:SER:HB3	2.18	0.42
11:P:34:ILE:HD13	12:Q:5:PHE:CE2	2.45	0.42
11:P:70:GLN:HE21	12:Q:78:PRO:CG	2.16	0.42
12:Q:41:LYS:NZ	12:Q:43:ARG:CA	2.73	0.42
13:R:88:LEU:O	13:R:92:GLN:NE2	2.53	0.42
1:A:122:VAL:CG1	1:A:131:TYR:HB2	2.27	0.42
1:A:160:PRO:HB2	1:A:161:ALA:H	1.60	0.42
1:A:194:LYS:O	1:A:198:ARG:HG3	2.19	0.42
1:A:208:TYR:HB2	1:A:217:ALA:HB2	2.01	0.42
2:B:218:TYR:O	2:B:221:SER:OG	2.20	0.42
3:C:85:ILE:HG21	3:C:123:ILE:O	2.20	0.42
3:C:111:LEU:HD11	3:C:148:LEU:CD2	2.50	0.42
3:C:349:ALA:HB1	3:C:358:VAL:CG1	2.50	0.42
5:E:63:LEU:HD21	6:F:47:VAL:H	1.85	0.42
5:E:69:ALA:HB3	5:E:172:PRO:HB3	2.02	0.42
5:E:121:ILE:HA	5:E:124:ALA:HB3	2.02	0.42
5:E:121:ILE:HD13	5:E:133:ALA:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:243:ASN:C	6:F:227:ALA:CA	2.70	0.42
6:F:43:LEU:HD13	6:F:84:MET:C	2.40	0.42
6:F:310:ASN:HB3	6:F:316:GLN:HA	2.02	0.42
7:G:146:ASP:CB	7:G:151:LEU:HB2	2.49	0.42
8:H:153:TRP:CE3	8:H:164:PRO:HA	2.55	0.42
10:O:10:PHE:HE2	10:O:60:GLU:N	2.13	0.42
10:O:171:ARG:CB	10:O:249:ARG:NH1	2.79	0.42
10:O:285:ILE:HD11	10:O:293:ASP:CB	2.50	0.42
10:O:322:GLU:O	10:O:326:ALA:HB3	2.20	0.42
10:O:441:LYS:HB3	10:O:447:LEU:CD1	2.49	0.42
10:O:458:ILE:HG23	10:O:470:THR:HB	2.02	0.42
10:O:544:TYR:HA	10:O:547:HIS:HB2	2.01	0.42
11:P:10:HIS:O	11:P:91:GLU:HG2	2.20	0.42
11:P:52:ASP:HB2	11:P:55:LYS:CG	2.49	0.42
13:R:73:GLY:N	13:R:76:ASN:HA	2.33	0.42
13:R:79:PHE:HB2	13:R:84:ILE:CG1	2.49	0.42
1:A:122:VAL:HG13	1:A:127:ASN:O	2.20	0.42
1:A:284:LYS:HE3	1:A:316:PHE:CB	2.50	0.42
1:A:322:PRO:HA	1:A:325:VAL:CB	2.43	0.42
1:A:355:PHE:CA	1:A:358:LEU:HG	2.50	0.42
1:A:437:GLU:O	1:A:441:THR:OG1	2.36	0.42
2:B:100:ARG:NE	2:B:141:ASP:HB2	2.35	0.42
2:B:273:ARG:NH2	2:B:277:LEU:HB3	2.35	0.42
2:B:337:ILE:HG22	2:B:343:ILE:HG21	2.02	0.42
2:B:441:LYS:HB3	6:F:306:VAL:CG1	2.41	0.42
2:B:441:LYS:HE2	2:B:441:LYS:HA	2.02	0.42
3:C:85:ILE:HG21	3:C:123:ILE:C	2.40	0.42
3:C:150:LEU:HD21	3:C:190:MET:HB2	2.02	0.42
3:C:233:ILE:C	3:C:304:LYS:HZ2	2.23	0.42
4:D:246:LEU:HA	4:D:249:LEU:HD12	2.01	0.42
4:D:324:LEU:HD22	4:D:327:LEU:HD22	2.02	0.42
4:D:403:GLN:HA	4:D:406:GLN:CB	2.50	0.42
5:E:31:TYR:CE2	5:E:131:GLU:HA	2.55	0.42
5:E:120:TYR:HE1	6:F:112:PHE:CD1	2.36	0.42
5:E:125:LYS:NZ	5:E:132:ASN:HD21	2.17	0.42
5:E:318:LEU:CD1	6:F:282:GLN:NE2	2.48	0.42
5:E:322:VAL:HG22	6:F:283:CYS:SG	2.59	0.42
6:F:40:SER:HA	6:F:76:GLN:H	1.85	0.42
6:F:69:ILE:HD13	6:F:138:VAL:HG11	2.01	0.42
6:F:249:GLU:CD	6:F:249:GLU:N	2.73	0.42
7:G:92:GLN:O	7:G:95:LYS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:102:VAL:CG1	7:G:140:ILE:HD13	2.47	0.42
8:H:17:LEU:HD12	8:H:21:GLU:CG	2.49	0.42
10:O:10:PHE:HD2	10:O:56:ARG:CG	1.67	0.42
10:O:96:LYS:O	10:O:99:ASP:HB3	2.20	0.42
10:O:198:PHE:HB3	10:O:201:LYS:HB2	2.01	0.42
10:O:283:HIS:CE1	10:O:287:ARG:HH11	2.38	0.42
10:O:569:LEU:HG	13:R:20:LYS:HA	1.62	0.42
10:O:732:GLU:CG	10:O:733:ARG:N	2.81	0.42
10:O:734:SER:HB2	10:O:741:TYR:HA	2.00	0.42
11:P:68:ARG:NE	11:P:68:ARG:HA	2.35	0.42
12:Q:46:LEU:CG	12:Q:54:LEU:CD2	2.92	0.42
1:A:94:LEU:HB3	1:A:247:TYR:CD2	2.55	0.42
1:A:100:LEU:HD13	1:A:118:ALA:HA	2.01	0.42
1:A:113:GLU:HA	1:A:116:LYS:HD3	2.01	0.42
1:A:408:ARG:HA	1:A:411:ILE:CD1	2.46	0.42
2:B:99:ILE:HG21	2:B:100:ARG:NH1	2.34	0.42
2:B:106:ASN:CG	10:O:401:LYS:NZ	2.69	0.42
2:B:165:TYR:OH	2:B:204:MET:HB2	2.20	0.42
2:B:214:LEU:CA	2:B:217:LEU:HD12	2.37	0.42
2:B:255:HIS:HA	2:B:258:PHE:CD2	2.43	0.42
2:B:270:SER:HB2	2:B:273:ARG:CB	2.50	0.42
3:C:123:ILE:HG23	3:C:126:GLN:OE1	2.20	0.42
3:C:156:LYS:HG2	3:C:157:PRO:N	2.35	0.42
4:D:22:LEU:HD12	4:D:25:LYS:HD2	2.02	0.42
4:D:97:ILE:HD12	4:D:98:SER:N	2.35	0.42
4:D:317:ASN:O	4:D:361:PHE:CG	2.36	0.42
4:D:375:GLN:HA	4:D:378:CYS:HB2	2.02	0.42
6:F:139:HIS:CE1	6:F:151:PHE:HB2	2.54	0.42
6:F:146:ILE:HD11	6:F:149:PRO:HA	2.01	0.42
6:F:241:TYR:CE1	6:F:250:VAL:CG2	3.02	0.42
6:F:308:LYS:HA	6:F:311:VAL:CB	2.48	0.42
8:H:162:VAL:HG12	8:H:163:LEU:N	2.35	0.42
8:H:200:LEU:HD23	8:H:203:TYR:CD2	2.55	0.42
9:N:123:VAL:HA	9:N:126:ILE:CB	2.42	0.42
10:O:211:PHE:CG	10:O:262:VAL:HG21	2.55	0.42
10:O:219:TYR:CZ	10:O:246:GLU:HB2	2.53	0.42
10:O:337:THR:HA	10:O:341:GLU:CG	2.49	0.42
10:O:499:THR:HB	10:O:532:GLU:CD	2.40	0.42
10:O:618:LEU:HD22	10:O:625:HIS:HE1	1.83	0.42
10:O:621:LYS:HB2	10:O:643:ASN:HB3	2.02	0.42
11:P:1:MET:C	11:P:19:LYS:HG2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:10:HIS:HA	11:P:89:CYS:O	2.20	0.42
1:A:87:TYR:O	1:A:91:TYR:N	2.45	0.41
1:A:113:GLU:CD	1:A:116:LYS:HD3	2.40	0.41
1:A:164:THR:O	1:A:167:VAL:HB	2.19	0.41
1:A:381:LEU:CD2	1:A:405:ILE:HG21	2.49	0.41
1:A:398:VAL:CA	1:A:401:LEU:HG	2.50	0.41
1:A:481:GLU:O	1:A:485:ARG:HG3	2.20	0.41
2:B:135:THR:O	2:B:139:LEU:HG	2.20	0.41
2:B:244:MET:O	2:B:248:GLU:N	2.53	0.41
2:B:274:THR:HA	2:B:277:LEU:HG	2.01	0.41
2:B:329:ILE:O	2:B:332:THR:HB	2.20	0.41
2:B:351:LEU:HA	2:B:354:ILE:CG1	2.49	0.41
2:B:412:ASP:OD1	2:B:413:HIS:N	2.53	0.41
3:C:15:LEU:HA	3:C:18:GLN:CG	2.37	0.41
3:C:306:ASN:HB3	3:C:326:VAL:CG1	2.50	0.41
4:D:92:ILE:HG21	4:D:103:VAL:CG2	2.50	0.41
4:D:300:LEU:HD13	4:D:304:VAL:CG2	2.50	0.41
5:E:63:LEU:HD11	6:F:46:LEU:HB3	2.01	0.41
6:F:51:ILE:HG12	6:F:125:TYR:CE1	2.55	0.41
6:F:288:LEU:HD12	6:F:288:LEU:HA	1.82	0.41
7:G:31:ILE:HG23	7:G:63:TYR:CZ	2.55	0.41
7:G:144:LYS:N	7:G:153:GLU:HB2	2.26	0.41
7:G:163:ARG:CZ	7:G:163:ARG:HB2	2.49	0.41
10:O:193:GLN:NE2	10:O:195:LYS:H	2.13	0.41
10:O:282:CYS:CB	10:O:307:GLY:O	2.68	0.41
10:O:381:PRO:CB	10:O:383:SER:C	2.88	0.41
10:O:398:LEU:O	10:O:400:LYS:N	2.52	0.41
10:O:611:THR:O	10:O:615:LYS:HG3	2.20	0.41
1:A:92:SER:HA	1:A:96:ARG:CZ	2.50	0.41
1:A:163:ASP:OD1	1:A:166:TRP:HB3	2.20	0.41
1:A:204:LEU:O	1:A:208:TYR:HD2	2.02	0.41
1:A:486:ALA:O	1:A:490:MET:HG2	2.20	0.41
2:B:130:GLU:O	2:B:133:GLU:HG3	2.20	0.41
2:B:156:GLY:HA3	2:B:200:LEU:HD13	2.02	0.41
2:B:172:LEU:CD2	2:B:197:ILE:HG12	2.49	0.41
2:B:175:LEU:HD13	2:B:197:ILE:HD11	2.03	0.41
3:C:23:GLN:C	3:C:58:VAL:H	2.23	0.41
3:C:78:PHE:CE2	3:C:119:ARG:HD3	2.54	0.41
3:C:102:GLY:O	3:C:106:GLN:HB2	2.20	0.41
3:C:322:MET:O	3:C:325:ARG:HB2	2.20	0.41
4:D:179:THR:O	4:D:181:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:271:ARG:HG3	4:D:272:ILE:N	2.35	0.41
4:D:367:LEU:HA	4:D:370:TRP:HB2	2.01	0.41
5:E:238:LEU:O	5:E:241:LEU:HB3	2.20	0.41
5:E:241:LEU:CD2	6:F:200:VAL:HG11	2.50	0.41
6:F:33:CYS:N	6:F:183:PHE:O	2.51	0.41
7:G:4:GLU:O	7:G:6:LYS:HD2	2.20	0.41
7:G:36:GLU:HA	7:G:95:LYS:HZ1	1.85	0.41
7:G:41:TYR:HB2	7:G:161:ASP:OD2	2.20	0.41
7:G:117:LEU:CD2	7:G:128:LEU:HD22	2.45	0.41
7:G:196:ASN:HA	7:G:199:LYS:HB2	2.01	0.41
10:O:14:TRP:HD1	10:O:60:GLU:HA	0.61	0.41
10:O:20:THR:CG2	10:O:38:ARG:CG	2.93	0.41
10:O:57:LEU:CD1	10:O:108:LEU:HD21	2.47	0.41
10:O:185:ILE:HG13	10:O:207:PHE:CG	2.55	0.41
10:O:291:LYS:O	10:O:295:ALA:CB	2.68	0.41
10:O:398:LEU:HD23	10:O:404:LYS:CB	2.50	0.41
10:O:412:GLU:HA	10:O:415:LEU:CD1	2.49	0.41
10:O:476:MET:HE2	10:O:510:TYR:HD1	1.84	0.41
10:O:522:ALA:H	10:O:556:LEU:HD21	1.85	0.41
10:O:534:GLU:O	10:O:538:GLN:HG2	2.19	0.41
10:O:645:SER:O	10:O:646:SER:OG	2.28	0.41
10:O:733:ARG:HA	10:O:741:TYR:HB3	2.02	0.41
11:P:9:ARG:N	11:P:77:LEU:HB3	2.35	0.41
11:P:52:ASP:N	11:P:55:LYS:HD3	2.29	0.41
1:A:236:ASN:O	1:A:240:ASN:ND2	2.53	0.41
1:A:349:SER:OG	1:A:356:LEU:HD11	2.20	0.41
1:A:388:LEU:HD11	1:A:398:VAL:HG23	2.01	0.41
2:B:71:ALA:HA	2:B:74:GLN:HG2	2.00	0.41
2:B:98:TYR:O	2:B:103:VAL:HG21	2.20	0.41
2:B:163:GLU:OE1	2:B:204:MET:HA	2.20	0.41
3:C:177:ASP:O	3:C:180:HIS:HB2	2.20	0.41
3:C:181:PHE:HA	3:C:184:TYR:HB3	2.02	0.41
3:C:248:ILE:O	3:C:252:PHE:HB2	2.19	0.41
3:C:281:LYS:HE2	3:C:282:HIS:CE1	2.55	0.41
3:C:326:VAL:HG12	3:C:326:VAL:O	2.20	0.41
4:D:89:LEU:CD2	4:D:103:VAL:HG13	2.49	0.41
5:E:77:VAL:CG1	5:E:100:VAL:HG22	2.39	0.41
5:E:116:TYR:N	9:N:133:LYS:HG3	2.26	0.41
5:E:273:LEU:HD21	5:E:303:ALA:HB1	2.02	0.41
6:F:41:VAL:HB	6:F:120:GLU:OE2	2.20	0.41
6:F:72:LEU:HD12	6:F:123:GLY:HA3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:21:GLU:HA	8:H:40:LEU:HD13	2.01	0.41
8:H:111:ASP:O	8:H:115:ARG:HG3	2.19	0.41
9:N:144:ILE:HG23	9:N:148:LYS:C	2.40	0.41
10:O:498:ASP:HB2	10:O:535:LYS:CE	2.50	0.41
10:O:554:THR:HG22	10:O:555:TRP:N	2.33	0.41
10:O:718:ILE:CG2	10:O:719:LYS:H	2.33	0.41
12:Q:7:THR:O	12:Q:45:GLU:C	2.57	0.41
12:Q:15:GLU:CG	12:Q:45:GLU:HB2	2.49	0.41
1:A:301:GLN:HA	1:A:304:LYS:CG	2.50	0.41
1:A:320:LEU:HD11	1:A:324:ASN:HB3	2.02	0.41
1:A:452:ARG:NE	3:C:312:LYS:HA	2.35	0.41
1:A:478:MET:HE1	6:F:288:LEU:CD1	2.50	0.41
1:A:482:PHE:CE2	6:F:295:ILE:CD1	3.04	0.41
1:A:492:ARG:HA	1:A:495:VAL:CG1	2.48	0.41
2:B:192:THR:HB	2:B:230:HIS:CE1	2.55	0.41
2:B:357:GLN:HG3	2:B:360:ILE:HD12	2.02	0.41
3:C:117:PRO:CG	3:C:148:LEU:HD13	2.30	0.41
3:C:172:GLU:O	3:C:173:ASN:HB2	2.20	0.41
4:D:130:ILE:HG21	4:D:132:LEU:CD2	2.50	0.41
5:E:123:ASN:O	5:E:126:GLN:HB2	2.19	0.41
5:E:159:GLN:O	5:E:163:GLU:HB2	2.20	0.41
5:E:194:LYS:CG	5:E:195:PRO:HD2	2.51	0.41
5:E:318:LEU:CD2	6:F:286:VAL:HG21	2.50	0.41
6:F:254:HIS:O	6:F:254:HIS:CG	2.72	0.41
7:G:56:ALA:C	7:G:57:GLU:HG3	2.41	0.41
7:G:108:MET:CG	7:G:111:ILE:HD13	2.50	0.41
7:G:140:ILE:HA	7:G:158:ILE:CG1	2.44	0.41
8:H:77:VAL:HG13	8:H:89:ILE:HG23	2.02	0.41
8:H:103:GLN:HA	8:H:106:MET:HB2	2.02	0.41
10:O:302:ARG:HA	10:O:308:LEU:CD1	2.51	0.41
10:O:489:LYS:O	10:O:492:ASN:HB2	2.19	0.41
10:O:572:PRO:HD2	10:O:573:TYR:CE1	2.55	0.41
11:P:15:PHE:HD2	12:Q:18:ILE:HD12	1.85	0.41
1:A:107:CYS:O	1:A:111:ARG:HB2	2.21	0.41
1:A:257:TYR:CD1	1:A:260:LYS:HD3	2.55	0.41
1:A:318:GLU:OE1	1:A:318:GLU:N	2.54	0.41
1:A:446:GLU:HG2	1:A:447:GLY:N	2.36	0.41
2:B:33:GLU:HA	2:B:36:TYR:CD2	2.55	0.41
2:B:116:LEU:HD11	2:B:154:LYS:HE3	2.02	0.41
2:B:167:LYS:O	2:B:171:ILE:HG13	2.20	0.41
2:B:274:THR:HA	2:B:277:LEU:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:375:SER:OG	2:B:380:ILE:O	2.39	0.41
3:C:182:LEU:HA	3:C:185:TYR:CE1	2.55	0.41
3:C:226:LYS:HA	3:C:229:LEU:CG	2.50	0.41
5:E:36:GLN:HB3	5:E:84:LYS:HB2	2.03	0.41
5:E:185:ALA:O	5:E:224:LEU:N	2.53	0.41
6:F:132:ASP:H	6:F:135:ASP:HB2	1.85	0.41
7:G:104:LEU:HD12	7:G:116:LEU:HD21	2.02	0.41
8:H:73:GLY:HA3	8:H:96:HIS:NE2	2.35	0.41
8:H:129:ILE:CG2	8:H:131:ASP:HB2	2.50	0.41
8:H:130:ALA:CB	8:H:160:ARG:HG2	2.50	0.41
10:O:498:ASP:CB	10:O:535:LYS:HE3	2.49	0.41
10:O:644:PHE:CE1	10:O:646:SER:HB2	2.54	0.41
10:O:656:SER:O	10:O:658:GLN:NE2	2.54	0.41
1:A:95:MET:HG2	1:A:247:TYR:OH	2.19	0.41
1:A:188:TYR:O	1:A:191:ASN:HB2	2.20	0.41
1:A:468:ARG:CZ	6:F:281:ASP:HA	2.30	0.41
2:B:78:ILE:O	2:B:82:LEU:HB2	2.20	0.41
2:B:330:LEU:HD23	2:B:333:ASN:ND2	2.25	0.41
2:B:428:THR:CA	2:B:431:LEU:HD12	2.44	0.41
3:C:231:SER:O	3:C:235:LEU:HD12	2.21	0.41
3:C:315:LEU:HD12	3:C:315:LEU:HA	1.83	0.41
3:C:333:GLU:H	3:C:333:GLU:CD	2.24	0.41
3:C:334:ALA:HA	3:C:337:TYR:CZ	2.55	0.41
3:C:369:ASN:HA	3:C:370:PRO:HD2	1.88	0.41
5:E:26:ASP:O	5:E:30:LYS:HG3	2.20	0.41
6:F:43:LEU:HD13	6:F:84:MET:CB	2.50	0.41
6:F:47:VAL:HG12	6:F:86:SER:C	2.41	0.41
6:F:83:VAL:HG11	6:F:152:LEU:HD12	2.02	0.41
8:H:125:TYR:CE2	8:H:164:PRO:HD2	2.55	0.41
8:H:148:ILE:CD1	8:H:149:LEU:HG	2.51	0.41
10:O:137:MET:HE3	10:O:145:ASP:CB	2.50	0.41
10:O:255:HIS:CG	10:O:256:PRO:HD2	2.55	0.41
10:O:396:ASP:O	10:O:400:LYS:HE3	2.20	0.41
10:O:524:SER:HA	10:O:580:TYR:OH	2.20	0.41
10:O:568:TYR:HA	13:R:18:LYS:HB3	2.01	0.41
12:Q:6:VAL:HG11	12:Q:29:LEU:HG	1.98	0.41
13:R:75:CYS:HB2	13:R:77:HIS:CG	2.56	0.41
1:A:237:MET:O	1:A:241:VAL:HG23	2.20	0.41
1:A:370:TYR:CZ	2:B:394:LEU:HD11	2.55	0.41
2:B:130:GLU:OE1	2:B:130:GLU:N	2.47	0.41
2:B:167:LYS:C	2:B:170:LYS:HG3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:194:LEU:HD23	2:B:224:ILE:CD1	2.51	0.41
2:B:221:SER:O	2:B:224:ILE:HG13	2.20	0.41
2:B:438:VAL:HG13	2:B:441:LYS:HG3	2.03	0.41
3:C:82:GLN:HG3	3:C:124:LEU:CD1	2.50	0.41
3:C:241:LEU:HD13	3:C:241:LEU:HA	1.87	0.41
3:C:352:ASN:HB2	8:H:126:THR:HG21	2.02	0.41
4:D:89:LEU:HD22	4:D:107:ARG:HE	1.85	0.41
4:D:375:GLN:HA	4:D:378:CYS:SG	2.61	0.41
5:E:120:TYR:HA	6:F:111:GLN:OE1	2.20	0.41
5:E:200:PRO:CD	5:E:222:TYR:HB2	2.51	0.41
5:E:327:LEU:HD23	7:G:185:LEU:HD21	1.95	0.41
6:F:72:LEU:HD13	6:F:150:LEU:HD22	2.02	0.41
6:F:270:LEU:HD13	6:F:270:LEU:HA	1.88	0.41
6:F:271:SER:C	6:F:276:LYS:HE3	2.40	0.41
8:H:40:LEU:HA	8:H:43:LEU:HD12	2.03	0.41
8:H:57:TRP:O	8:H:60:ILE:HG12	2.21	0.41
8:H:93:ILE:HG23	8:H:106:MET:CE	2.51	0.41
9:N:131:GLU:CG	9:N:137:PRO:HA	2.51	0.41
9:N:142:ARG:HB2	9:N:170:VAL:N	2.35	0.41
9:N:150:MSE:HG2	9:N:159:TYR:CE2	2.55	0.41
10:O:20:THR:HB	10:O:38:ARG:HE	0.33	0.41
10:O:78:GLU:O	10:O:158:ILE:HD11	2.20	0.41
10:O:193:GLN:HB3	10:O:198:PHE:H	1.85	0.41
10:O:306:THR:CA	10:O:309:PRO:HD2	2.51	0.41
10:O:306:THR:HA	10:O:309:PRO:HD2	2.01	0.41
10:O:316:GLN:O	10:O:320:HIS:HB2	2.21	0.41
10:O:456:ALA:HA	10:O:459:ASN:OD1	2.20	0.41
10:O:458:ILE:HG23	10:O:470:THR:HG21	2.01	0.41
10:O:476:MET:HG2	10:O:510:TYR:HB3	2.03	0.41
10:O:526:THR:CG2	10:O:604:GLN:HG3	2.50	0.41
10:O:658:GLN:HB2	10:O:658:GLN:HE21	1.73	0.41
13:R:35:TRP:HD1	13:R:37:ILE:HB	1.80	0.41
13:R:44:ILE:HD13	13:R:83:CYS:O	2.21	0.41
13:R:48:HIS:HB2	13:R:50:MET:HB3	2.02	0.41
1:A:109:THR:CA	1:A:112:VAL:HG23	2.47	0.41
1:A:128:VAL:CA	1:A:131:TYR:HB3	2.51	0.41
1:A:301:GLN:O	1:A:304:LYS:HB2	2.21	0.41
2:B:214:LEU:O	2:B:217:LEU:HB2	2.19	0.41
2:B:265:TYR:HH	2:B:272:ARG:H	1.57	0.41
2:B:294:PHE:CE2	2:B:303:LYS:HD3	2.55	0.41
2:B:441:LYS:HB3	6:F:306:VAL:CG2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:153:LYS:HD2	8:H:55:TYR:O	2.20	0.41
3:C:342:ILE:HG22	8:H:120:LEU:CD2	2.46	0.41
3:C:351:ILE:HD11	8:H:124:ALA:HB3	2.03	0.41
3:C:382:LYS:HE3	3:C:382:LYS:HB3	1.69	0.41
5:E:204:GLN:O	5:E:206:ILE:HG12	2.20	0.41
6:F:57:ARG:CZ	6:F:88:GLU:HB3	2.51	0.41
6:F:101:ASP:O	6:F:104:TYR:HB3	2.20	0.41
6:F:290:ALA:O	6:F:294:THR:HG23	2.20	0.41
6:F:306:VAL:HG12	6:F:310:ASN:ND2	2.36	0.41
7:G:71:ALA:CB	7:G:164:LYS:HZ2	2.27	0.41
7:G:206:LYS:HA	7:G:209:ILE:HD12	2.02	0.41
10:O:50:PRO:HB3	10:O:53:LEU:HB2	2.03	0.41
10:O:107:TYR:HB2	12:Q:96:TYR:O	2.21	0.41
10:O:392:ALA:C	10:O:395:CYS:HB2	2.40	0.41
10:O:400:LYS:C	10:O:449:MET:HE2	2.40	0.41
10:O:419:ILE:HD11	10:O:460:LYS:HZ1	1.85	0.41
10:O:584:VAL:HG11	10:O:610:LEU:CB	2.42	0.41
10:O:663:GLN:O	10:O:667:GLN:HG2	2.20	0.41
1:A:186:LYS:HE3	1:A:189:LYS:NZ	2.36	0.41
1:A:387:ASN:CB	1:A:390:LEU:HD12	2.51	0.41
1:A:458:LYS:N	1:A:458:LYS:HD3	2.36	0.41
1:A:463:ARG:HB3	2:B:401:ARG:HH12	1.85	0.41
1:A:497:ARG:NH2	6:F:309:PHE:HE1	2.10	0.41
2:B:20:TYR:H	10:O:652:LYS:CE	2.33	0.41
2:B:47:PRO:O	2:B:51:LEU:HG	2.21	0.41
2:B:72:LEU:HD12	2:B:95:LEU:CD2	2.50	0.41
2:B:132:TYR:O	2:B:136:LEU:HG	2.21	0.41
2:B:153:THR:HG23	2:B:196:GLU:CG	2.50	0.41
2:B:169:GLN:HA	2:B:172:LEU:CG	2.50	0.41
2:B:215:LYS:HE3	2:B:215:LYS:HB3	1.83	0.41
2:B:259:PHE:CD1	2:B:296:SER:HB2	2.54	0.41
2:B:300:LYS:HD3	2:B:300:LYS:H	1.86	0.41
2:B:306:PRO:HA	2:B:309:LEU:HD21	2.02	0.41
2:B:370:HIS:ND1	2:B:408:LEU:HD21	2.36	0.41
2:B:427:TRP:CG	5:E:266:VAL:CG1	3.02	0.41
2:B:428:THR:HG23	2:B:431:LEU:CD1	2.48	0.41
3:C:13:ARG:HG2	3:C:45:VAL:CB	2.51	0.41
3:C:30:LYS:N	3:C:30:LYS:HD2	2.36	0.41
3:C:35:LEU:CG	3:C:68:MET:HB2	2.49	0.41
3:C:39:LEU:O	3:C:42:LEU:HB2	2.21	0.41
3:C:49:LEU:N	3:C:88:CYS:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:80:GLN:HA	3:C:83:LEU:CD1	2.48	0.41
3:C:179:LYS:HB3	3:C:179:LYS:HE3	1.81	0.41
3:C:218:HIS:HA	3:C:221:LEU:CB	2.51	0.41
3:C:299:LEU:HD11	3:C:303:TYR:HE2	1.86	0.41
3:C:306:ASN:ND2	3:C:326:VAL:O	2.54	0.41
3:C:341:MET:CA	3:C:344:ASP:HB2	2.50	0.41
3:C:352:ASN:OD1	3:C:355:ASP:N	2.47	0.41
3:C:352:ASN:N	8:H:126:THR:HB	2.36	0.41
4:D:4:ALA:HB1	4:D:32:LYS:HZ3	1.86	0.41
4:D:271:ARG:NH1	4:D:272:ILE:O	2.54	0.41
5:E:63:LEU:HD21	6:F:47:VAL:N	2.36	0.41
5:E:113:ALA:HA	9:N:128:GLU:O	2.20	0.41
5:E:331:ILE:HG23	7:G:177:TRP:CZ2	2.44	0.41
6:F:32:ALA:O	6:F:182:LEU:HD22	2.20	0.41
6:F:64:ARG:O	6:F:66:VAL:HG23	2.20	0.41
6:F:90:LEU:HD21	6:F:92:HIS:NE2	2.36	0.41
6:F:243:LYS:HZ2	6:F:243:LYS:CB	2.27	0.41
7:G:34:VAL:HG13	7:G:43:PHE:CZ	2.56	0.41
7:G:61:ALA:O	7:G:65:GLN:HG3	2.19	0.41
7:G:66:LEU:CD1	7:G:96:LEU:HD21	2.50	0.41
7:G:76:PRO:HD3	7:G:120:LEU:HD21	2.03	0.41
7:G:136:VAL:N	7:G:141:ILE:HD12	2.35	0.41
7:G:146:ASP:CG	7:G:151:LEU:HB2	2.41	0.41
8:H:70:GLU:O	8:H:74:ILE:HG13	2.21	0.41
8:H:120:LEU:HD12	8:H:120:LEU:HA	1.92	0.41
9:N:102:LEU:HD12	9:N:115:ILE:C	2.41	0.41
9:N:103:ILE:CD1	9:N:167:LEU:HD11	2.51	0.41
9:N:155:THR:O	9:N:158:ASP:HB2	2.21	0.41
9:N:169:LEU:HD22	9:N:171:LEU:HD13	0.82	0.41
10:O:10:PHE:CZ	10:O:60:GLU:N	2.82	0.41
10:O:21:ILE:HG13	10:O:38:ARG:NH1	2.35	0.41
10:O:26:MET:O	10:O:93:GLU:OE2	2.34	0.41
10:O:28:GLU:O	10:O:31:GLU:HG2	2.21	0.41
10:O:106:ARG:O	10:O:109:ASN:HB2	2.20	0.41
10:O:202:PHE:C	10:O:206:ILE:H	2.23	0.41
10:O:212:LEU:H	10:O:262:VAL:HB	1.85	0.41
10:O:260:THR:CG2	10:O:263:ILE:HG13	2.51	0.41
10:O:301:LEU:C	10:O:308:LEU:HG	2.41	0.41
10:O:391:LEU:HD22	10:O:425:ILE:HG12	2.03	0.41
10:O:458:ILE:HG21	10:O:470:THR:HB	2.02	0.41
10:O:471:SER:HA	10:O:474:HIS:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:535:LYS:CA	10:O:538:GLN:HG2	2.50	0.41
10:O:597:LYS:HE2	10:O:634:ALA:CB	2.50	0.41
10:O:623:ILE:HD11	10:O:638:PHE:CD1	2.55	0.41
10:O:632:ILE:HG13	10:O:636:SER:CB	2.49	0.41
10:O:716:SER:C	10:O:718:ILE:N	2.75	0.41
11:P:3:VAL:HB	11:P:67:ALA:CB	2.51	0.41
11:P:35:LEU:HD13	12:Q:43:ARG:HD2	2.00	0.41
11:P:38:PRO:HD2	11:P:41:GLU:CD	2.40	0.41
11:P:96:PRO:HG3	12:Q:53:ILE:HD11	2.02	0.41
13:R:84:ILE:HG21	13:R:102:GLU:C	2.41	0.41
1:A:95:MET:SD	1:A:318:GLU:HA	2.61	0.41
1:A:368:LYS:HA	1:A:371:GLU:CB	2.31	0.41
1:A:468:ARG:CZ	1:A:472:PHE:HZ	2.34	0.41
2:B:119:ILE:HG22	2:B:119:ILE:O	2.21	0.41
3:C:15:LEU:HD22	3:C:21:MET:HE2	2.03	0.41
3:C:214:MET:HA	3:C:249:VAL:HG23	2.03	0.41
3:C:224:TYR:HE2	3:C:257:SER:HB3	1.86	0.41
3:C:347:ILE:CG1	3:C:349:ALA:HB2	2.51	0.41
5:E:49:HIS:CD2	5:E:190:PRO:HG2	2.56	0.41
5:E:246:TRP:HH2	6:F:231:LEU:HD23	1.86	0.41
5:E:258:ASN:O	5:E:262:THR:HG23	2.21	0.41
6:F:46:LEU:HG	6:F:49:LEU:HB2	2.02	0.41
6:F:46:LEU:HA	6:F:49:LEU:HD12	2.01	0.41
6:F:140:LYS:HE3	6:F:140:LYS:HB3	1.96	0.41
7:G:96:LEU:HA	7:G:99:LEU:CG	2.50	0.41
8:H:128:ILE:HG12	8:H:129:ILE:O	2.21	0.41
9:N:170:VAL:HG23	10:O:689:LYS:C	2.41	0.41
10:O:240:LEU:HG	10:O:244:LYS:HE3	2.04	0.41
10:O:350:PHE:O	10:O:354:ILE:HB	2.21	0.41
10:O:577:VAL:HB	10:O:581:GLN:CB	2.49	0.41
10:O:720:LYS:HA	10:O:723:GLU:HG3	2.02	0.41
11:P:24:VAL:HG13	11:P:44:LEU:CD1	2.29	0.41
1:A:194:LYS:HB3	1:A:198:ARG:NH1	2.36	0.40
1:A:337:PHE:CD2	1:A:339:ARG:HA	2.56	0.40
1:A:353:LYS:C	1:A:356:LEU:HB2	2.41	0.40
1:A:378:LEU:HD23	1:A:381:LEU:CD2	2.48	0.40
1:A:400:THR:O	1:A:404:GLN:HG2	2.21	0.40
1:A:455:SER:O	1:A:458:LYS:N	2.52	0.40
1:A:482:PHE:CE2	6:F:295:ILE:HD13	2.54	0.40
1:A:487:LYS:O	1:A:491:LEU:HG	2.20	0.40
2:B:89:MET:CG	2:B:93:LYS:HE3	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:205:TYR:CZ	2:B:214:LEU:HG	2.55	0.40
2:B:323:ILE:CD1	2:B:358:VAL:HG21	2.51	0.40
2:B:323:ILE:CG1	2:B:358:VAL:HG21	2.51	0.40
2:B:378:LEU:CB	2:B:380:ILE:HG12	2.50	0.40
3:C:17:ALA:CB	3:C:52:GLN:HE21	2.33	0.40
3:C:24:LEU:CA	3:C:58:VAL:HG12	2.51	0.40
3:C:28:ILE:C	3:C:98:ASP:HB2	2.42	0.40
3:C:58:VAL:HG22	3:C:62:LEU:HG	2.03	0.40
3:C:136:ASN:O	3:C:166:MET:HB2	2.21	0.40
3:C:369:ASN:HB3	3:C:371:ALA:CB	2.48	0.40
4:D:404:MET:SD	6:F:161:THR:OG1	2.79	0.40
5:E:58:SER:OG	5:E:93:MET:HA	2.21	0.40
5:E:171:ASP:OD2	5:E:174:ARG:HG3	2.21	0.40
5:E:203:TYR:CD1	5:E:214:PHE:HE2	2.39	0.40
5:E:245:TYR:O	5:E:248:ASN:HB2	2.20	0.40
5:E:312:ILE:HG12	8:H:207:LEU:CB	2.46	0.40
5:E:318:LEU:HD13	6:F:282:GLN:CD	2.32	0.40
6:F:73:ILE:HG12	6:F:85:ASN:CB	2.50	0.40
6:F:150:LEU:HD23	6:F:151:PHE:N	2.37	0.40
7:G:50:ALA:HA	7:G:53:GLN:CG	2.51	0.40
7:G:97:LYS:CG	7:G:120:LEU:HD22	2.40	0.40
7:G:165:LYS:HG2	7:G:167:LEU:HD13	2.03	0.40
8:H:81:ILE:HA	8:H:89:ILE:HD11	2.02	0.40
8:H:86:PHE:CD2	8:H:136:PHE:HA	2.56	0.40
9:N:100:SER:OG	9:N:118:GLU:OE1	2.31	0.40
10:O:17:LEU:N	10:O:41:ASP:CG	2.73	0.40
10:O:45:LEU:HD13	10:O:57:LEU:HD12	1.49	0.40
10:O:50:PRO:HB2	10:O:51:GLU:CA	2.50	0.40
10:O:132:MET:O	10:O:133:ASN:HB2	2.21	0.40
10:O:338:LEU:O	10:O:342:SER:CB	2.69	0.40
10:O:433:LYS:HD3	10:O:518:PRO:CB	2.51	0.40
10:O:472:LYS:HD2	10:O:513:GLN:N	2.23	0.40
10:O:472:LYS:HE3	10:O:472:LYS:HB2	1.82	0.40
10:O:620:VAL:HG13	10:O:644:PHE:HD1	1.85	0.40
10:O:738:ALA:O	10:O:741:TYR:CE1	2.74	0.40
11:P:5:LEU:HD22	15:P:281:HOH:O	2.21	0.40
11:P:20:GLU:HG2	11:P:62:PHE:O	2.21	0.40
12:Q:6:VAL:HB	12:Q:44:ILE:HB	2.03	0.40
1:A:300:LYS:HG3	1:A:301:GLN:N	2.36	0.40
1:A:349:SER:OG	1:A:352:PHE:HB3	2.21	0.40
1:A:398:VAL:C	1:A:401:LEU:HG	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:128:LEU:O	2:B:131:PHE:HB2	2.21	0.40
2:B:193:GLN:O	2:B:197:ILE:HG13	2.21	0.40
2:B:196:GLU:OE2	2:B:200:LEU:HG	2.21	0.40
2:B:233:ILE:HG22	2:B:233:ILE:O	2.22	0.40
2:B:248:GLU:OE2	2:B:250:GLU:HB3	2.21	0.40
2:B:282:LEU:HD12	2:B:285:MET:SD	2.61	0.40
2:B:298:GLU:HB3	2:B:301:PRO:HG2	2.02	0.40
2:B:314:LEU:HD22	2:B:326:PHE:HB3	2.01	0.40
2:B:323:ILE:HG23	2:B:354:ILE:CD1	2.51	0.40
2:B:368:ARG:HA	2:B:411:LEU:HD23	2.03	0.40
3:C:120:GLY:HA3	3:C:124:LEU:HD22	2.03	0.40
3:C:125:LYS:HA	3:C:128:ILE:CG1	2.52	0.40
3:C:156:LYS:O	3:C:159:LEU:HB2	2.22	0.40
3:C:226:LYS:O	3:C:229:LEU:HB2	2.22	0.40
4:D:95:ARG:HG3	10:O:531:GLN:OE1	2.13	0.40
4:D:255:CYS:CB	4:D:258:LEU:HD12	2.51	0.40
5:E:76:GLU:O	5:E:100:VAL:HG23	2.21	0.40
5:E:82:LEU:HD21	5:E:121:ILE:HG12	2.04	0.40
5:E:116:TYR:CB	9:N:132:GLU:CB	2.69	0.40
5:E:316:HIS:HD1	8:H:207:LEU:HD13	1.83	0.40
6:F:57:ARG:HD3	6:F:88:GLU:OE1	2.21	0.40
6:F:150:LEU:HD11	6:F:167:VAL:CG1	2.52	0.40
7:G:69:LEU:HD11	7:G:74:THR:O	2.22	0.40
7:G:199:LYS:CE	8:H:209:ASN:C	2.90	0.40
8:H:32:ALA:O	8:H:34:PRO:HD3	2.21	0.40
8:H:56:LEU:O	8:H:60:ILE:HG12	2.21	0.40
8:H:204:VAL:HG13	8:H:208:GLU:CB	2.47	0.40
10:O:10:PHE:HZ	10:O:59:THR:CA	2.34	0.40
10:O:16:LYS:CB	10:O:41:ASP:HA	2.52	0.40
10:O:151:MET:HE1	10:O:191:VAL:CG2	2.30	0.40
10:O:338:LEU:O	10:O:339:PHE:C	2.60	0.40
10:O:439:LEU:CD2	10:O:473:LEU:HD11	2.51	0.40
10:O:539:MET:O	10:O:542:LEU:HB3	2.20	0.40
10:O:549:SER:C	13:R:33:TRP:CZ2	2.89	0.40
10:O:578:THR:HG22	10:O:579:THR:N	2.33	0.40
10:O:611:THR:HA	10:O:629:LYS:O	2.20	0.40
11:P:68:ARG:HB3	11:P:69:PRO:HD2	2.03	0.40
12:Q:28:THR:CG2	12:Q:32:MET:HG2	2.49	0.40
1:A:148:ALA:HB3	1:A:149:PRO:CD	2.51	0.40
1:A:193:ILE:HG22	1:A:196:SER:H	1.87	0.40
1:A:258:VAL:HG22	1:A:285:LEU:CD2	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:ASP:OD1	1:A:459:ILE:HG12	2.20	0.40
1:A:449:ILE:HG13	1:A:451:ALA:CB	2.51	0.40
1:A:483:GLN:HB3	3:C:382:LYS:HD3	2.03	0.40
3:C:7:GLN:HA	3:C:10:ASN:HD22	1.87	0.40
3:C:146:CYS:HB2	3:C:187:TYR:CE1	2.56	0.40
4:D:84:ILE:O	4:D:88:THR:CB	2.69	0.40
5:E:231:SER:O	5:E:234:ASP:HB2	2.21	0.40
5:E:249:THR:OG1	6:F:224:GLN:HA	2.21	0.40
6:F:46:LEU:HA	6:F:49:LEU:CD1	2.52	0.40
6:F:72:LEU:HB2	6:F:123:GLY:CA	2.52	0.40
6:F:110:GLU:OE2	9:N:134:GLU:OE1	2.39	0.40
6:F:254:HIS:ND1	7:G:162:ILE:CD1	2.81	0.40
7:G:110:CYS:CB	7:G:151:LEU:HB3	2.48	0.40
7:G:125:LEU:HD22	7:G:129:GLU:OE1	2.21	0.40
7:G:133:ILE:CA	7:G:136:VAL:HG22	2.50	0.40
7:G:156:PHE:HE2	7:G:158:ILE:HG22	1.86	0.40
8:H:134:ALA:O	8:H:139:LEU:N	2.54	0.40
9:N:136:ILE:CG2	9:N:141:GLN:HE21	2.33	0.40
9:N:162:MSE:H	9:N:165:SER:CB	2.31	0.40
10:O:48:ALA:C	10:O:50:PRO:CA	2.88	0.40
10:O:282:CYS:HB3	10:O:310:HIS:HB2	2.03	0.40
10:O:429:ASP:OD1	10:O:430:VAL:N	2.55	0.40
10:O:578:THR:CG2	10:O:656:SER:HB3	2.50	0.40
10:O:730:TYR:HD1	10:O:730:TYR:HA	1.69	0.40
11:P:4:PHE:CD2	11:P:68:ARG:HA	2.56	0.40
12:Q:74:ASP:C	15:Q:106:HOH:O	2.52	0.40
13:R:24:VAL:HG22	13:R:25:LYS:O	2.21	0.40
13:R:88:LEU:CD1	13:R:92:GLN:HA	2.50	0.40
1:A:334:LEU:HD22	1:A:366:ILE:CD1	2.51	0.40
2:B:71:ALA:HA	2:B:74:GLN:HG3	2.04	0.40
2:B:93:LYS:O	2:B:96:LEU:HB2	2.21	0.40
2:B:94:GLN:HA	2:B:97:THR:CG2	2.52	0.40
2:B:195:LEU:N	2:B:228:ILE:HD11	2.25	0.40
3:C:58:VAL:HA	3:C:61:VAL:HB	2.03	0.40
3:C:92:HIS:O	3:C:94:ARG:N	2.54	0.40
3:C:133:MET:HB2	3:C:137:GLN:OE1	2.21	0.40
3:C:210:THR:HG21	3:C:244:TYR:CZ	2.57	0.40
3:C:253:ILE:O	3:C:256:LEU:HB2	2.22	0.40
4:D:351:PHE:CE1	4:D:360:HIS:HB2	2.57	0.40
5:E:106:ARG:CB	5:E:109:ALA:HB2	2.35	0.40
5:E:115:GLU:O	5:E:118:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:159:GLN:NE2	5:E:165:PHE:O	2.55	0.40
6:F:106:TYR:HA	6:F:109:GLU:OE2	2.21	0.40
6:F:135:ASP:HB3	6:F:151:PHE:HZ	1.86	0.40
6:F:154:LEU:HA	6:F:164:PRO:O	2.21	0.40
6:F:197:ARG:HH12	6:F:220:HIS:HA	1.86	0.40
7:G:46:LEU:HD23	7:G:46:LEU:HA	1.85	0.40
7:G:103:SER:HB2	7:G:107:ARG:HH12	1.86	0.40
7:G:120:LEU:HD23	7:G:120:LEU:HA	1.76	0.40
8:H:33:THR:HB	8:H:36:VAL:CB	2.39	0.40
9:N:123:VAL:HG13	9:N:156:ALA:N	2.35	0.40
10:O:107:TYR:CD2	12:Q:96:TYR:HA	2.56	0.40
10:O:377:ASN:HA	10:O:384:VAL:HG11	2.02	0.40
10:O:388:PRO:CG	10:O:425:ILE:HG23	2.51	0.40
10:O:409:ASN:H	10:O:412:GLU:CB	2.34	0.40
10:O:443:LEU:HD12	10:O:476:MET:HE3	2.04	0.40
10:O:610:LEU:HA	10:O:613:THR:OG1	2.21	0.40
11:P:5:LEU:HB3	11:P:75:VAL:HG23	2.02	0.40
11:P:29:ARG:N	11:P:39:PRO:HG3	2.36	0.40
13:R:47:ASN:HB2	13:R:53:CYS:CB	2.51	0.40
1:A:264:THR:HB	1:A:265:PRO:HD3	2.03	0.40
1:A:298:LYS:O	1:A:300:LYS:N	2.54	0.40
1:A:360:PRO:CD	1:A:363:ARG:HH21	2.34	0.40
2:B:212:LYS:HA	2:B:215:LYS:CB	2.52	0.40
3:C:18:GLN:HB3	3:C:21:MET:CE	2.52	0.40
3:C:78:PHE:HZ	3:C:119:ARG:O	2.04	0.40
3:C:93:ILE:O	3:C:93:ILE:HG22	2.21	0.40
3:C:230:VAL:CG1	3:C:234:LEU:HD22	2.51	0.40
4:D:399:ALA:HB1	6:F:237:LEU:CD2	2.51	0.40
5:E:318:LEU:HD22	6:F:286:VAL:HG21	1.96	0.40
6:F:292:LEU:C	6:F:294:THR:N	2.75	0.40
7:G:96:LEU:CA	7:G:99:LEU:HD12	2.51	0.40
7:G:205:LEU:O	7:G:209:ILE:HG13	2.20	0.40
8:H:80:ARG:O	8:H:83:GLN:HB2	2.21	0.40
9:N:141:GLN:CG	9:N:171:LEU:HD13	2.44	0.40
10:O:19:THR:HG22	10:O:19:THR:O	2.22	0.40
10:O:127:TYR:HB2	10:O:132:MET:SD	2.60	0.40
10:O:161:ARG:HA	10:O:164:LEU:CD1	2.37	0.40
10:O:240:LEU:CG	10:O:244:LYS:HE3	2.51	0.40
10:O:407:THR:H	10:O:410:GLU:HB3	1.87	0.40
10:O:620:VAL:CG2	10:O:653:ILE:HG22	2.50	0.40
11:P:18:ALA:HA	15:P:225:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:41:GLU:C	11:P:80:ARG:HB2	2.42	0.40
13:R:84:ILE:CG1	13:R:101:TRP:HA	2.44	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	420/462 (91%)	338 (80%)	82 (20%)	0	100	100
2	B	423/443 (96%)	367 (87%)	52 (12%)	4 (1%)	14	51
3	C	396/401 (99%)	308 (78%)	87 (22%)	1 (0%)	37	73
4	D	407/407 (100%)	346 (85%)	61 (15%)	0	100	100
5	E	294/334 (88%)	237 (81%)	56 (19%)	1 (0%)	37	73
6	F	277/327 (85%)	237 (86%)	38 (14%)	2 (1%)	19	57
7	G	213/215 (99%)	185 (87%)	27 (13%)	1 (0%)	25	65
8	H	166/209 (79%)	147 (89%)	19 (11%)	0	100	100
9	N	74/78 (95%)	66 (89%)	8 (11%)	0	100	100
10	O	722/745 (97%)	579 (80%)	128 (18%)	15 (2%)	5	30
11	P	104/106 (98%)	91 (88%)	13 (12%)	0	100	100
12	Q	89/99 (90%)	73 (82%)	9 (10%)	7 (8%)	1	9
13	R	81/85 (95%)	51 (63%)	29 (36%)	1 (1%)	11	44
All	All	3666/3911 (94%)	3025 (82%)	609 (17%)	32 (1%)	17	51

All (32) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	30	VAL

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Mol	Chain	Res	Type
6	F	258	ARG
10	O	256	PRO
10	O	265	GLU
10	O	266	CYS
10	O	290	LYS
12	Q	5	PHE
12	Q	27	PRO
2	B	19	GLU
3	C	53	GLU
10	O	81	GLU
10	O	282	CYS
10	O	381	PRO
12	Q	38	ARG
2	B	21	SER
10	O	49	TYR
10	O	275	LEU
10	O	382	LYS
10	O	654	THR
12	Q	48	GLN
13	R	43	ALA
2	B	18	LEU
10	O	283	HIS
12	Q	11	LYS
12	Q	26	SER
12	Q	34	GLU
10	O	80	GLU
10	O	255	HIS
5	E	63	LEU
6	F	256	ILE
10	O	356	THR
7	G	38	PRO

### 5.3.2 Protein sidechains ⓘ

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

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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	365/403 (91%)	361 (99%)	4 (1%)	70	80
2	B	367/405 (91%)	356 (97%)	11 (3%)	36	55
3	C	357/358 (100%)	353 (99%)	4 (1%)	70	80
4	D	352/348 (101%)	347 (99%)	5 (1%)	62	75
5	E	255/283 (90%)	255 (100%)	0	100	100
6	F	251/276 (91%)	245 (98%)	6 (2%)	44	62
7	G	184/184 (100%)	182 (99%)	2 (1%)	70	80
8	H	144/173 (83%)	142 (99%)	2 (1%)	62	75
9	N	67/64 (105%)	65 (97%)	2 (3%)	36	55
10	O	678/681 (100%)	650 (96%)	28 (4%)	26	47
11	P	92/94 (98%)	91 (99%)	1 (1%)	70	80
12	Q	90/90 (100%)	78 (87%)	12 (13%)	3	13
13	R	73/75 (97%)	72 (99%)	1 (1%)	62	75
All	All	3275/3434 (95%)	3197 (98%)	78 (2%)	46	62

All (78) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	130	MET
1	A	239	LEU
1	A	384	MET
1	A	424	ARG
2	B	110	LYS
2	B	140	LYS
2	B	162	ARG
2	B	167	LYS
2	B	170	LYS
2	B	173	ARG
2	B	225	LYS
2	B	361	LYS
2	B	368	ARG
2	B	396	ASN
2	B	429	ASN
3	C	30	LYS
3	C	156	LYS
3	C	179	LYS

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Mol	Chain	Res	Type
3	C	382	LYS
4	D	267[A]	MET
4	D	267[B]	MET
4	D	276	ASN
4	D	286[A]	MET
4	D	286[B]	MET
6	F	243	LYS
6	F	245	SER
6	F	246	GLU
6	F	249	GLU
6	F	252	PHE
6	F	257	LEU
7	G	6	LYS
7	G	126	ARG
8	H	59	ARG
8	H	165	ARG
9	N	160	LYS
9	N	169	LEU
10	O	6	ARG
10	O	8	VAL
10	O	11	ASP
10	O	12	GLU
10	O	17	LEU
10	O	18	LEU
10	O	20	THR
10	O	22	LYS
10	O	67	ASN
10	O	114	LYS
10	O	311	MET
10	O	330	LEU
10	O	332	GLN
10	O	333	GLU
10	O	334	ASN
10	O	335	MET
10	O	338	LEU
10	O	379	ARG
10	O	384	VAL
10	O	480	MET
10	O	496	ASN
10	O	566	MET
10	O	657	MET
10	O	660	ASP

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Mol	Chain	Res	Type
10	O	681	GLN
10	O	686	ARG
10	O	699	LEU
10	O	712	ASN
11	P	9	ARG
12	Q	24	MET
12	Q	28	THR
12	Q	32	MET
12	Q	38	ARG
12	Q	39	GLU
12	Q	40	SER
12	Q	43	ARG
12	Q	45	GLU
12	Q	47	LYS
12	Q	56	LYS
12	Q	64	ASN
12	Q	98	SER
13	R	98	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (115) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	127	ASN
1	A	187	ASN
1	A	343	GLN
1	A	397	HIS
1	A	407	ASN
1	A	412	GLN
1	A	442	GLN
1	A	467	GLN
2	B	79	ASN
2	B	106	ASN
2	B	113	ASN
2	B	144	ASN
2	B	169	GLN
2	B	230	HIS
2	B	264	ASN
2	B	284	ASN
2	B	297	GLN
2	B	313	ASN
2	B	320	ASN
2	B	321	ASN

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Mol	Chain	Res	Type
2	B	333	ASN
2	B	357	GLN
2	B	396	ASN
2	B	406	ASN
2	B	413	HIS
2	B	429	ASN
2	B	436	GLN
3	C	10	ASN
3	C	18	GLN
3	C	41	HIS
3	C	82	GLN
3	C	106	GLN
3	C	109	ASN
3	C	116	GLN
3	C	132	GLN
3	C	136	ASN
3	C	265	GLN
3	C	280	ASN
3	C	374	HIS
3	C	400	ASN
4	D	19	HIS
4	D	93	GLN
4	D	109	HIS
4	D	175	GLN
4	D	307	HIS
4	D	317	ASN
4	D	360	HIS
4	D	380	GLN
4	D	383	ASN
4	D	390	GLN
5	E	35	GLN
5	E	36	GLN
5	E	37	GLN
5	E	49	HIS
5	E	126	GLN
5	E	132	ASN
5	E	155	GLN
5	E	204	GLN
5	E	243	ASN
5	E	275	GLN
5	E	321	GLN
5	E	329	ASN

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Mol	Chain	Res	Type
6	F	50	ASN
6	F	61	GLN
6	F	80	ASN
6	F	111	GLN
6	F	137	HIS
6	F	232	HIS
6	F	253	ASN
6	F	254	HIS
6	F	265	HIS
6	F	282	GLN
6	F	284	ASN
6	F	300	ASN
6	F	303	ASN
6	F	307	ASN
6	F	310	ASN
7	G	33	GLN
7	G	60	ASN
7	G	147	GLN
7	G	196	ASN
7	G	201	GLN
8	H	47	HIS
9	N	140	GLN
9	N	141	GLN
9	N	149	GLN
10	O	109	ASN
10	O	111	GLN
10	O	177	ASN
10	O	186	ASN
10	O	193	GLN
10	O	225	ASN
10	O	310	HIS
10	O	334	ASN
10	O	409	ASN
10	O	487	ASN
10	O	488	ASN
10	O	491	ASN
10	O	492	ASN
10	O	513	GLN
10	O	538	GLN
10	O	589	ASN
10	O	604	GLN
10	O	625	HIS

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Mol	Chain	Res	Type
10	O	658	GLN
10	O	681	GLN
10	O	701	GLN
10	O	706	GLN
10	O	712	ASN
11	P	42	GLN
11	P	49	GLN
11	P	65	GLN
12	Q	62	ASN
13	R	60	GLN
13	R	92	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

### 5.6 Ligand geometry ⓘ

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

### 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
10	O	18
12	Q	5
4	D	3
2	B	2
13	R	1
9	N	1
1	A	1
6	F	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	192:THR	C	193:GLN	N	11.96
1	O	693:VAL	C	694:LEU	N	4.82
1	D	362:GLU	C	363:THR	N	4.17
1	R	33:TRP	C	34:ALA	N	4.13
1	O	175:ASP	C	176:PRO	N	3.97
1	O	303:ALA	C	304:VAL	N	3.97
1	Q	3:GLN	C	4:ASP	N	3.95
1	Q	49:PHE	C	50:ASP	N	3.95
1	N	169:LEU	C	170:VAL	N	3.44
1	Q	86:MET	C	87:SER	N	3.43
1	A	76:ASP	C	77:VAL	N	3.40
1	D	364:ARG	C	365:GLU	N	3.33
1	O	233:SER	C	234:GLN	N	2.79
1	O	660:ASP	C	661:THR	N	2.67
1	O	261:LYS	C	262:VAL	N	2.59
1	O	657:MET	C	658:GLN	N	2.51
1	O	50:PRO	C	51:GLU	N	2.40
1	D	359:VAL	C	360:HIS	N	2.26
1	O	357:VAL	C	358:LEU	N	2.21
1	Q	83:PRO	C	84:THR	N	2.09
1	F	293:GLY	C	294:THR	N	1.93
1	O	48:ALA	C	49:TYR	N	1.89
1	Q	26:SER	C	27:PRO	N	1.84
1	O	265:GLU	C	266:CYS	N	1.80
1	O	282:CYS	C	283:HIS	N	1.69
1	B	414:GLN	C	415:LYS	N	1.67
1	O	289:GLU	C	290:LYS	N	1.19
1	O	204:GLN	C	205:GLU	N	1.16

*Continued on next page...*

*Continued from previous page...*

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	381:PRO	C	382:LYS	N	1.12
1	O	174:GLU	C	175:ASP	N	1.06
1	O	274:HIS	C	275:LEU	N	1.06
1	O	256:PRO	C	257:SER	N	0.46

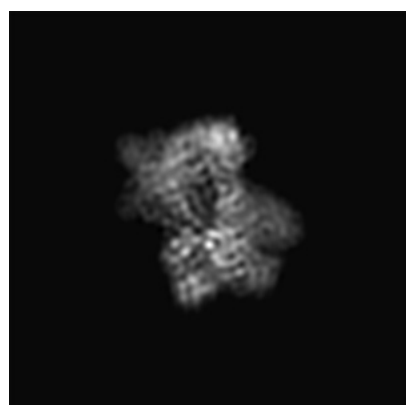
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4742. These allow visual inspection of the internal detail of the map and identification of artifacts.

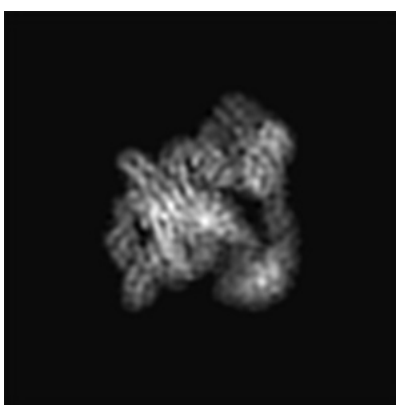
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

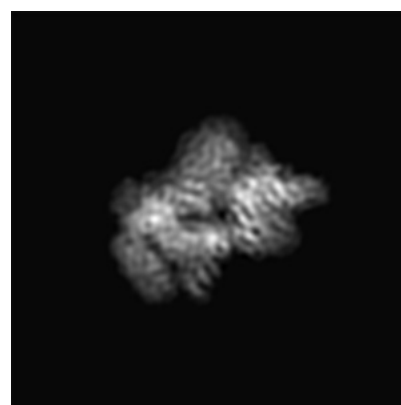
#### 6.1.1 Primary map



X



Y



Z

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

### 6.2 Central slices [i](#)

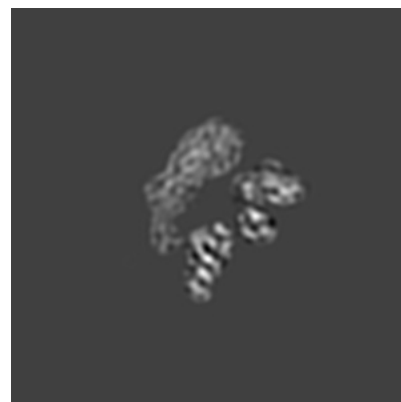
#### 6.2.1 Primary map



X Index: 150



Y Index: 150



Z Index: 150

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

## 6.3 Largest variance slices [i](#)

### 6.3.1 Primary map



X Index: 179



Y Index: 159

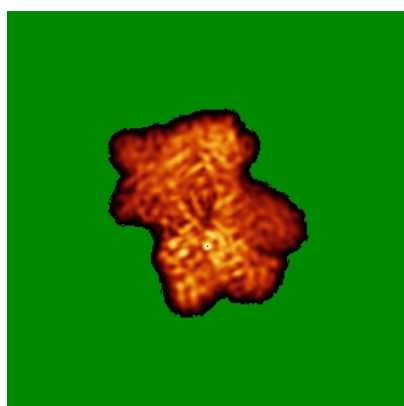


Z Index: 124

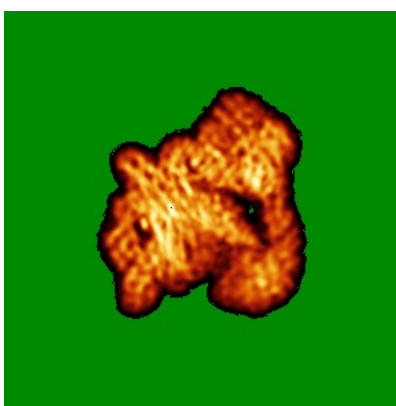
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

### 6.4.1 Primary map



X



Y



Z

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

## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 6.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

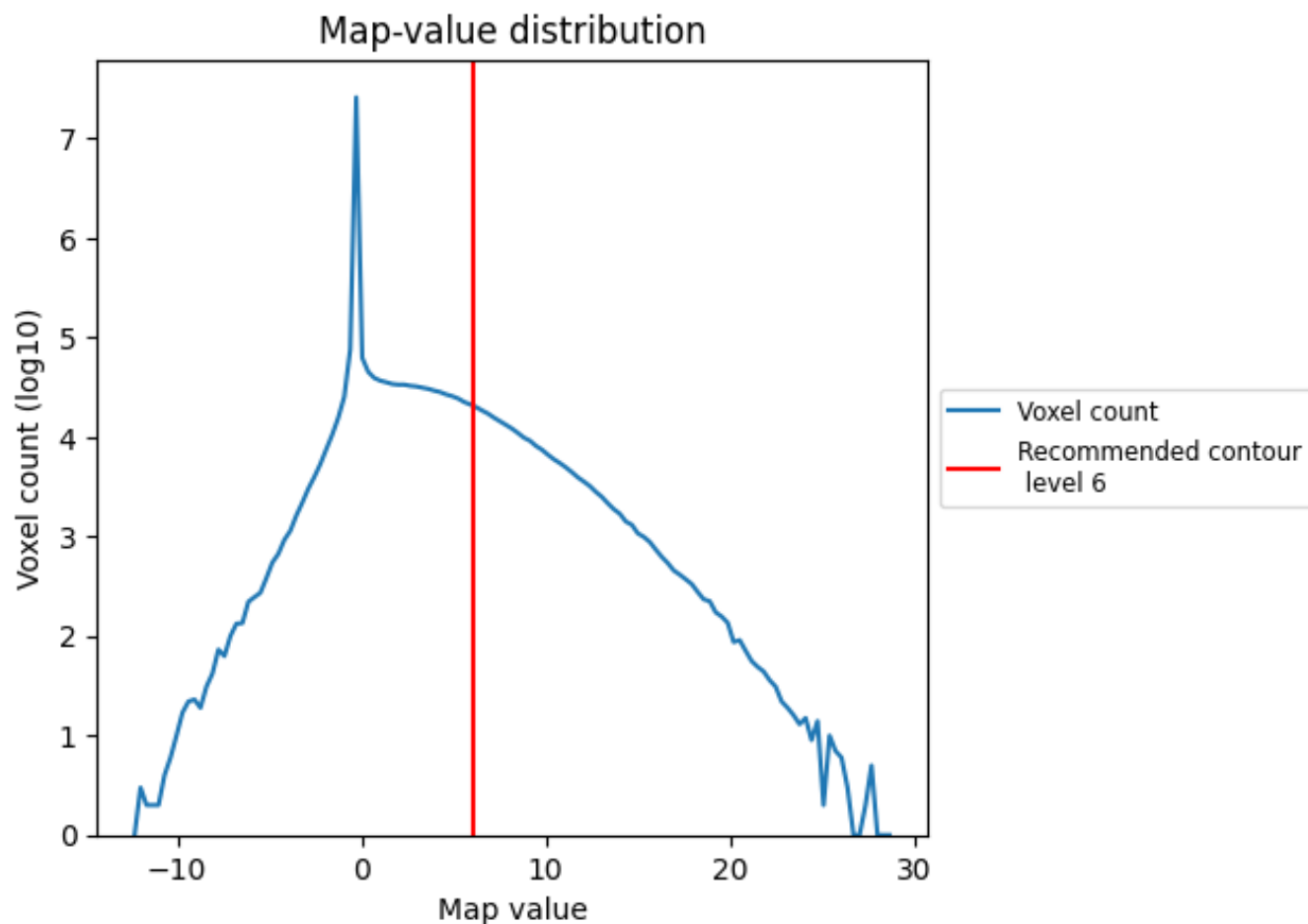
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

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

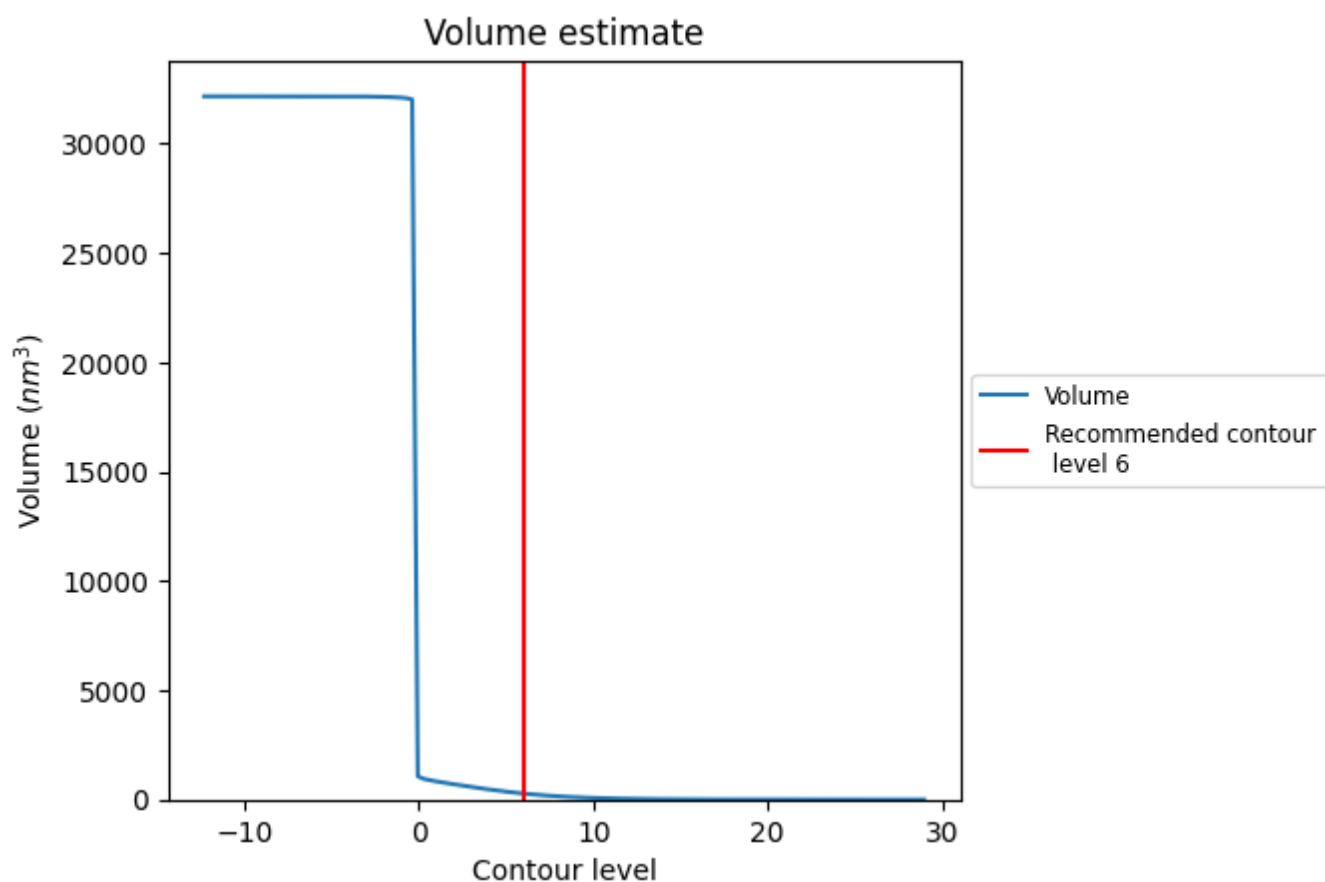
### 7.1 Map-value distribution [i](#)



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



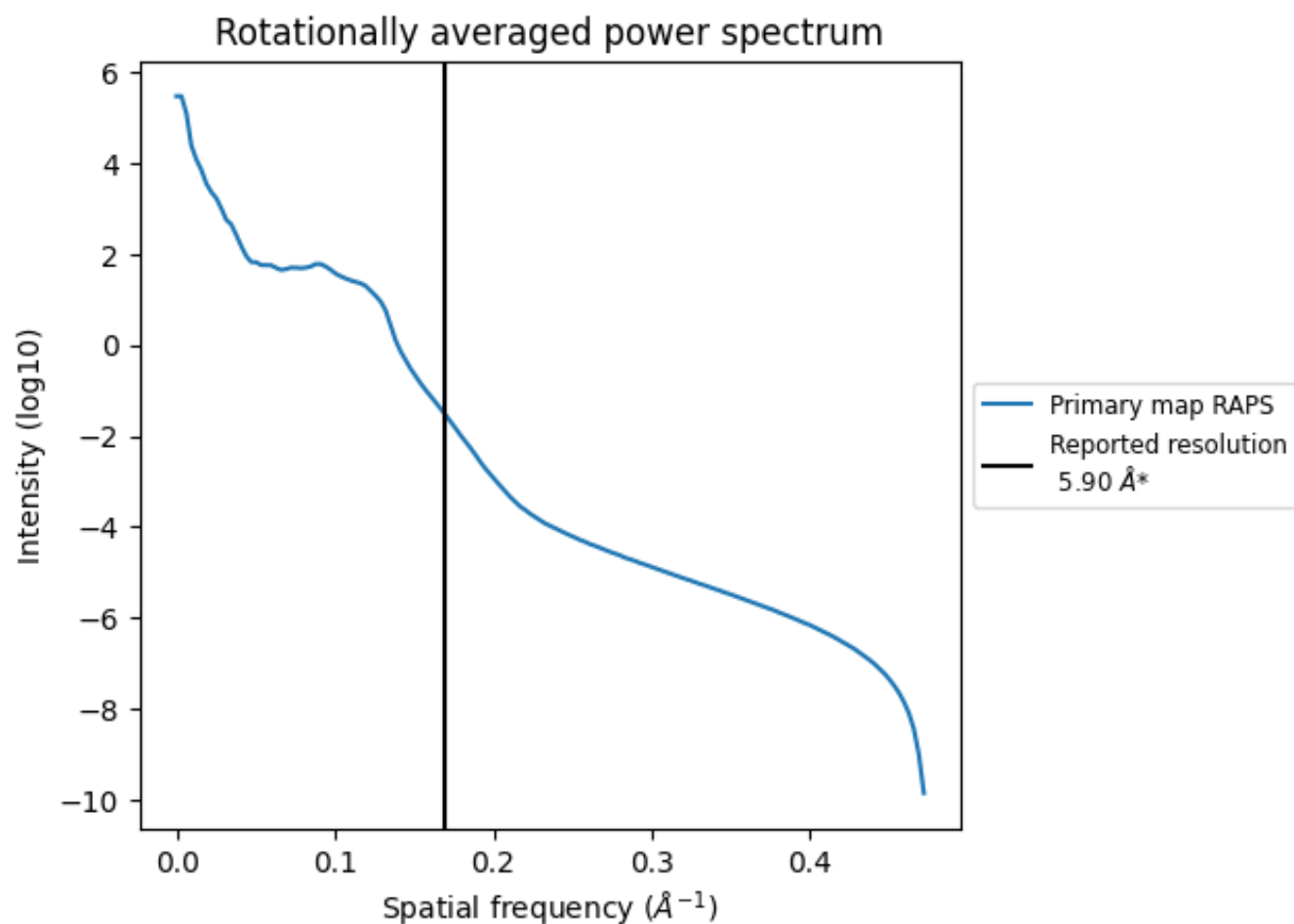
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 275  $\text{nm}^3$ ; this corresponds to an approximate mass of 248 kDa.

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

### 7.3 Rotationally averaged power spectrum ⓘ



\*Reported resolution corresponds to spatial frequency of 0.169 Å<sup>-1</sup>

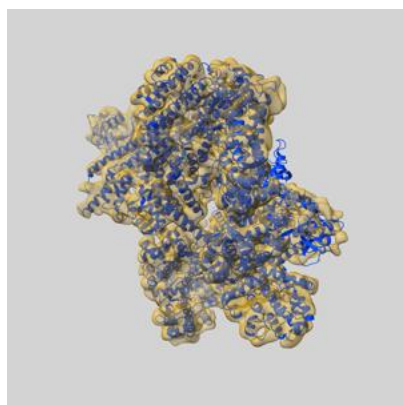
## 8 Fourier-Shell correlation ⓘ

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

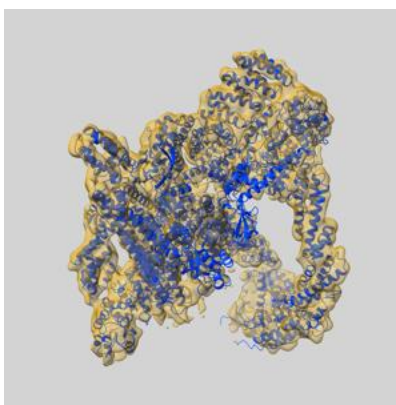
## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-4742 and PDB model 6R7I. Per-residue inclusion information can be found in section 3 on page 8.

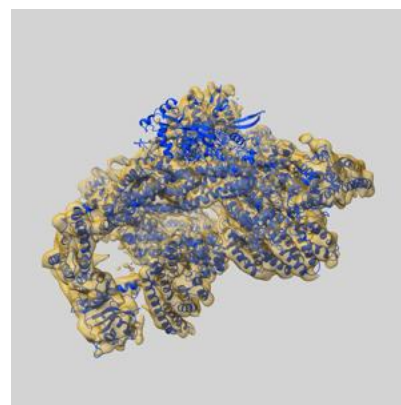
### 9.1 Map-model overlay [i](#)



X



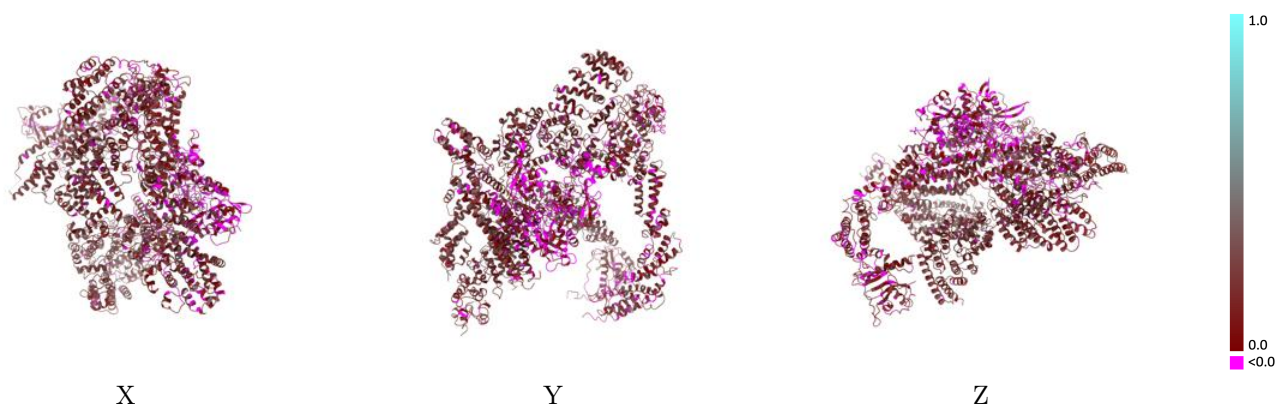
Y



Z

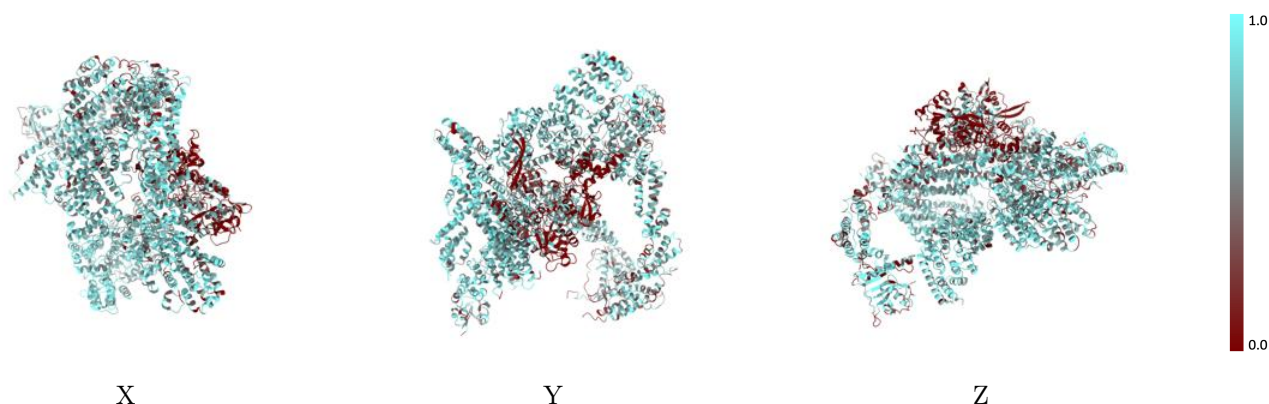
The images above show the 3D surface view of the map at the recommended contour level 6.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



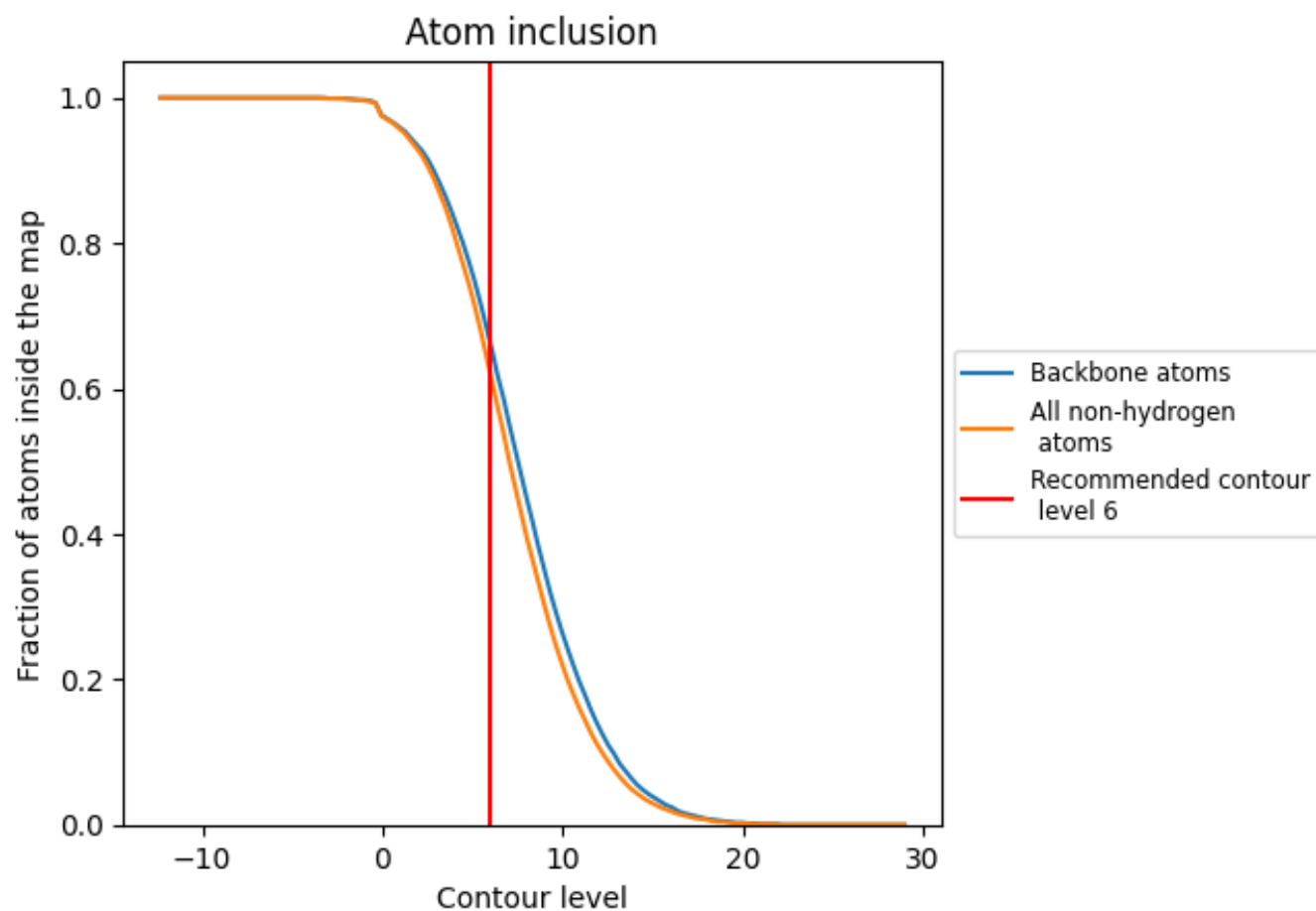
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (6).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 66% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.6180	<div></div> 0.1480
A	<div></div> 0.7390	<div></div> 0.2160
B	<div></div> 0.6880	<div></div> 0.1740
C	<div></div> 0.7690	<div></div> 0.2000
D	<div></div> 0.7570	<div></div> 0.2040
E	<div></div> 0.2920	<div></div> 0.0300
F	<div></div> 0.4180	<div></div> 0.0580
G	<div></div> 0.6710	<div></div> 0.1550
H	<div></div> 0.8250	<div></div> 0.2130
N	<div></div> 0.0400	<div></div> 0.0130
O	<div></div> 0.5430	<div></div> 0.1230
P	<div></div> 0.6260	<div></div> 0.1570
Q	<div></div> 0.6560	<div></div> 0.0980
R	<div></div> 0.5270	<div></div> 0.1260

