



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 03:05 AM UTC

PDB ID : 7PKY / pdb_00007pky
EMDB ID : EMD-13482
Title : Half-vault structure
Authors : Guerra, P.; Gonzalez-Alamos, M.; Llauro, A.; Casanas, A.; Querol-Audi, J.;
de Pablo, P.; Verdaguer, N.
Deposited on : 2021-08-27
Resolution : 7.90 Å(reported)
Based on initial model : 4HL8

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

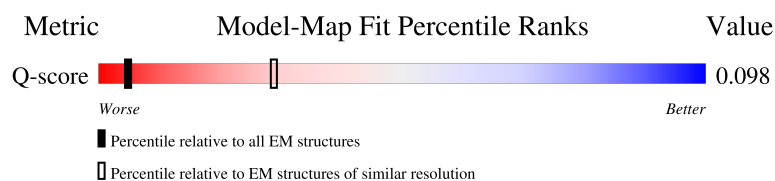
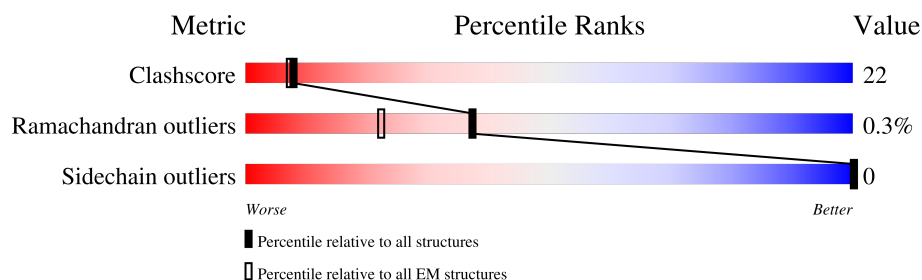
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 7.90 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	366 (7.40 - 8.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	861	
1	B	861	
1	C	861	
1	D	861	

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Mol	Chain	Length	Quality of chain			
1	E	861	17%	54%	37%	9%
1	F	861	18%	54%	37%	9%
1	G	861	17%	53%	37%	9%
1	H	861	18%	54%	37%	9%
1	I	861	22%	54%	37%	9%
1	J	861	24%	54%	36%	9%
1	K	861	28%	55%	36%	9%
1	L	861	29%	55%	36%	9%
1	M	861	28%	54%	37%	9%
1	N	861	28%	54%	36%	9%
1	O	861	29%	54%	36%	9%
1	P	861	31%	54%	37%	9%
1	Q	861	35%	55%	36%	9%
1	R	861	36%	54%	36%	9%
1	S	861	35%	54%	36%	9%
1	T	861	32%	54%	36%	9%
1	U	861	25%	54%	37%	9%
1	V	861	18%	54%	36%	9%
1	W	861	12%	54%	36%	9%
1	X	861	18%	54%	37%	9%
1	Y	861	26%	54%	37%	9%
1	Z	861	34%	54%	36%	9%
1	a	861	38%	54%	36%	9%
1	b	861	41%	55%	36%	9%
1	c	861	41%	55%	36%	9%

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Mol	Chain	Length	Quality of chain
1	d	861	
1	e	861	
1	f	861	
1	g	861	
1	h	861	
1	i	861	
1	j	861	
1	k	861	
1	l	861	
1	m	861	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 240123 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Major vault protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	B	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	C	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	D	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	E	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	F	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	G	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	H	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	I	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	J	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	K	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	L	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	M	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	N	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	O	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	P	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		
1	Q	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	S	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	T	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	U	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	V	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	W	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	X	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	Y	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	Z	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	a	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	b	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	c	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	d	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	e	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	f	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	g	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	h	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	i	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	j	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	k	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0
1	l	782	Total 6157	C 3874	N 1101	O 1167	S 15	0	0

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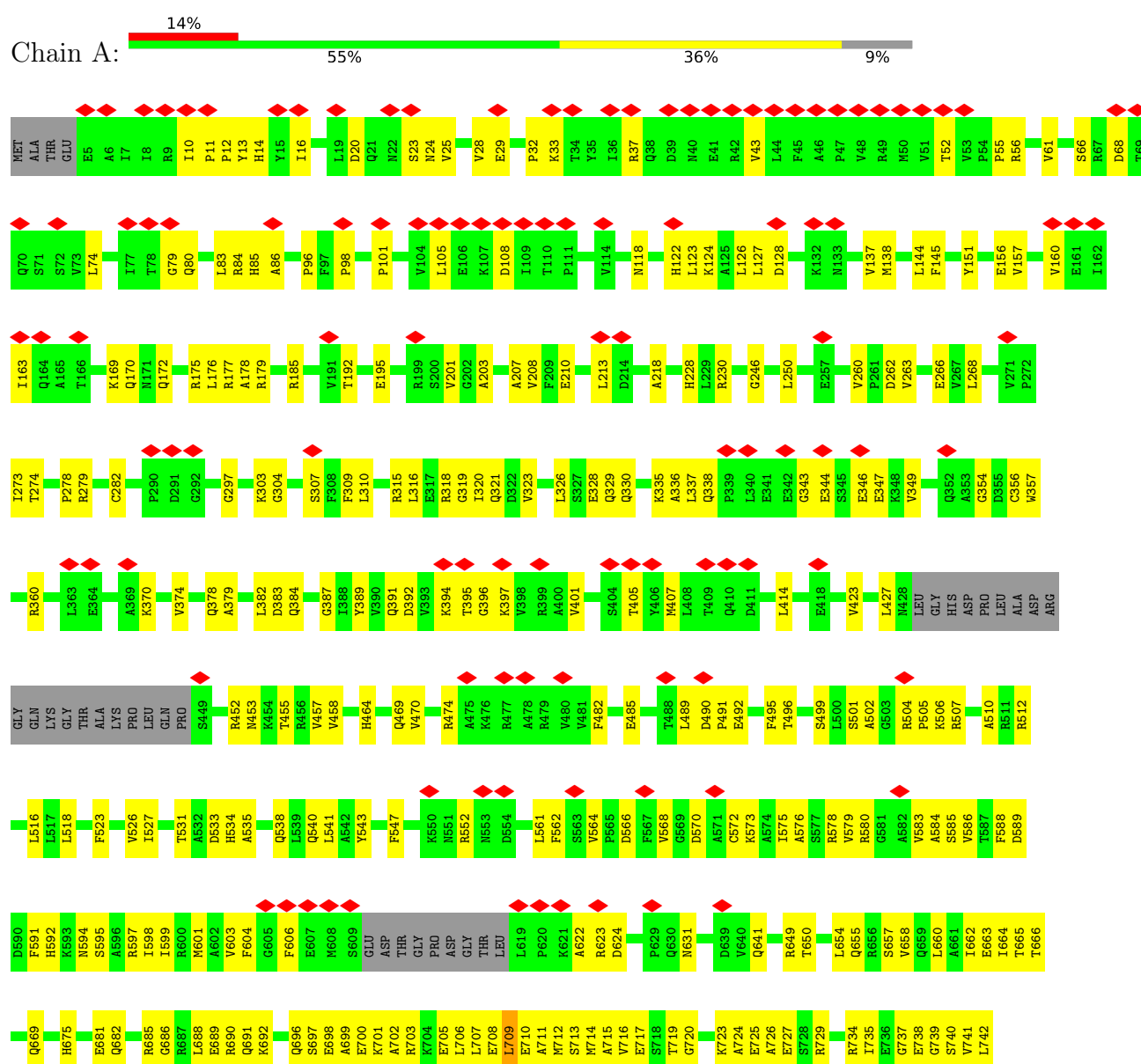
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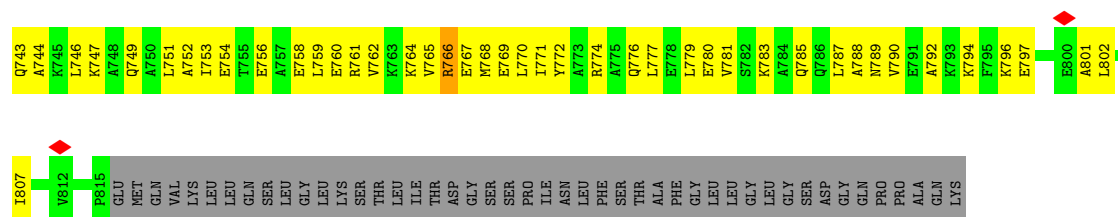
Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	782	Total	C	N	O	S	0	0
			6157	3874	1101	1167	15		

3 Residue-property plots [i](#)

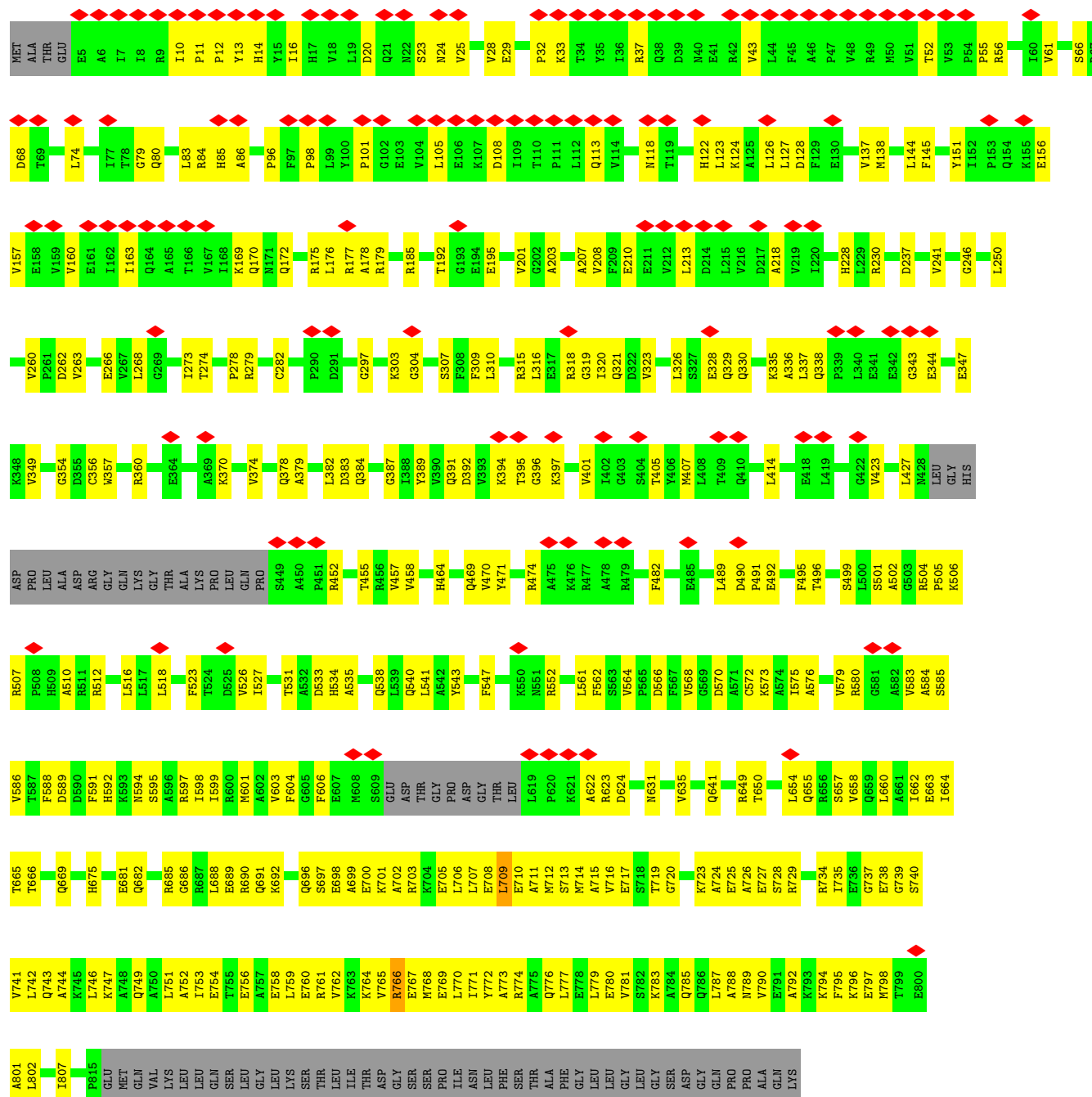
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Major vault protein



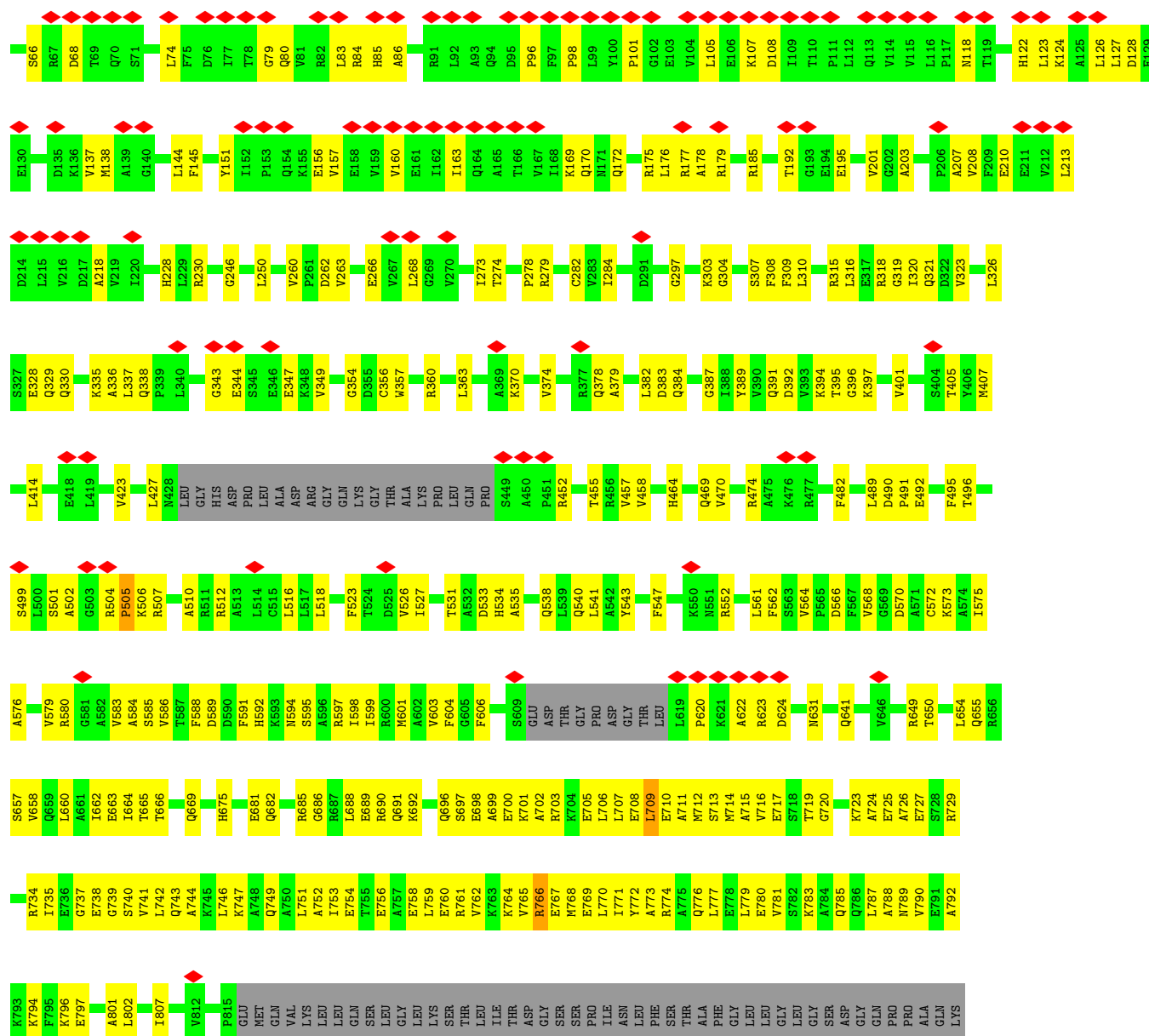


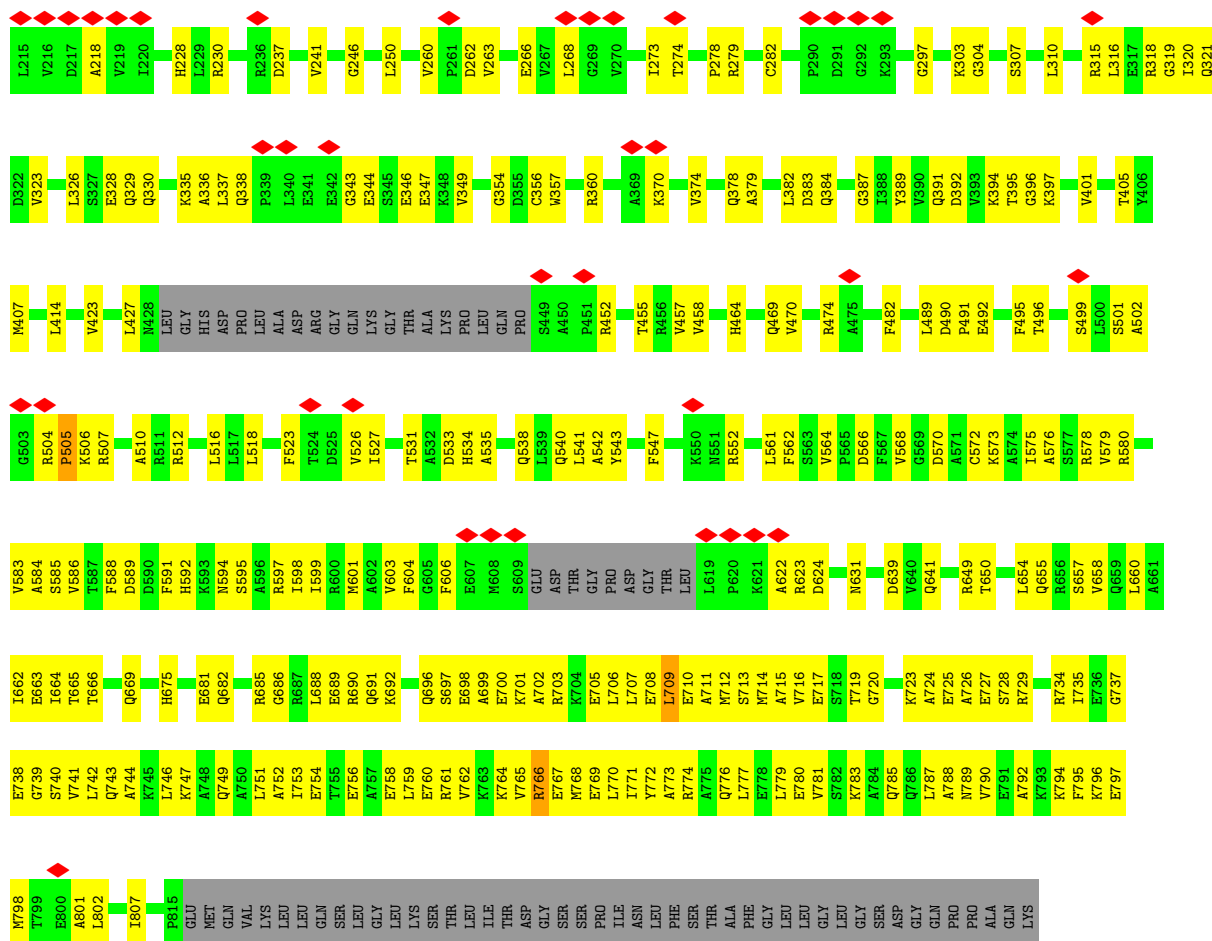
• Molecule 1: Major vault protein



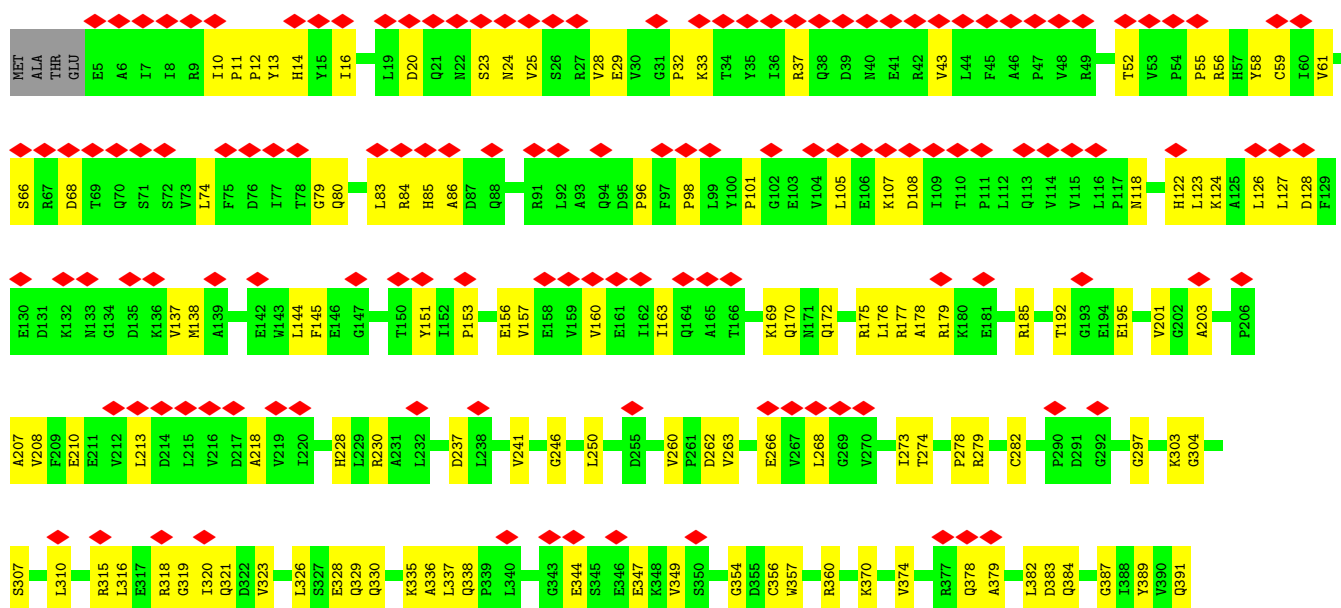
Chain C:

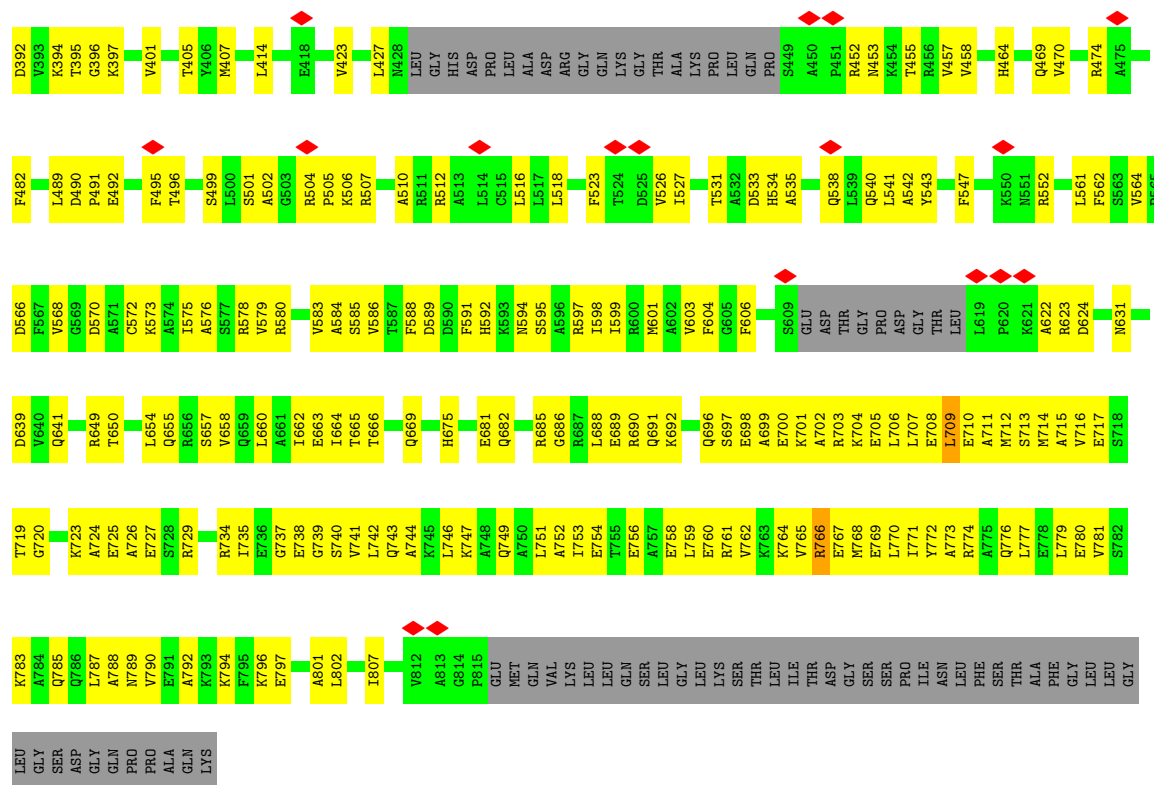




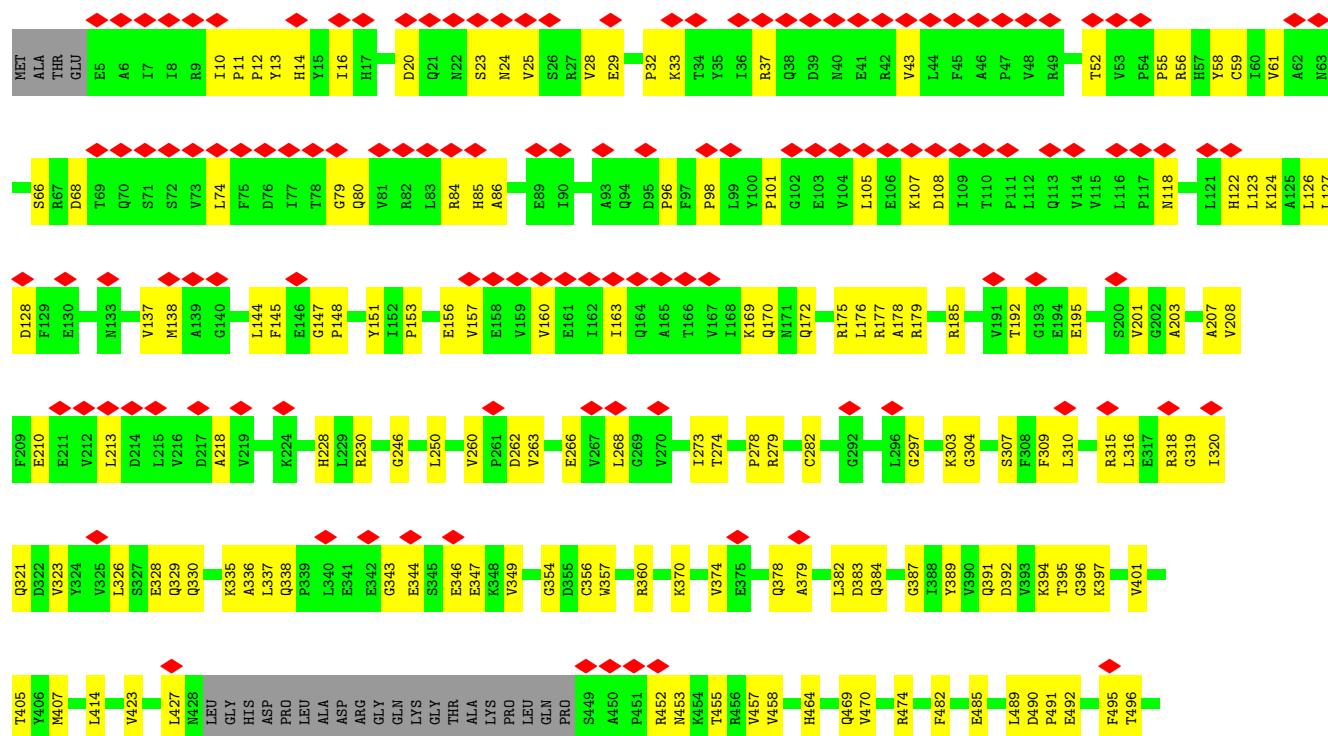


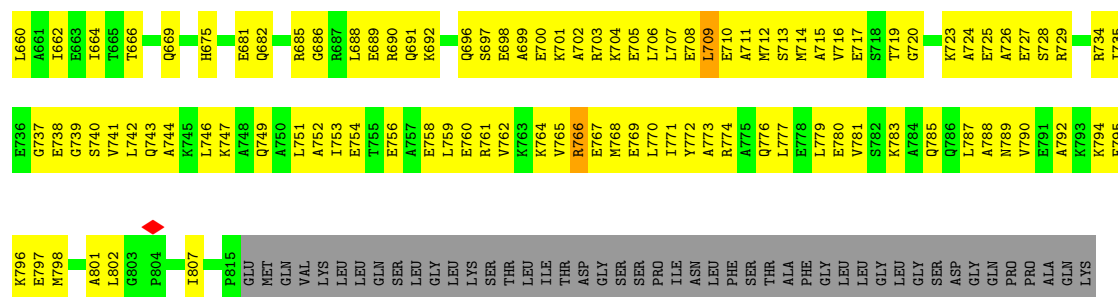
• Molecule 1: Major vault protein



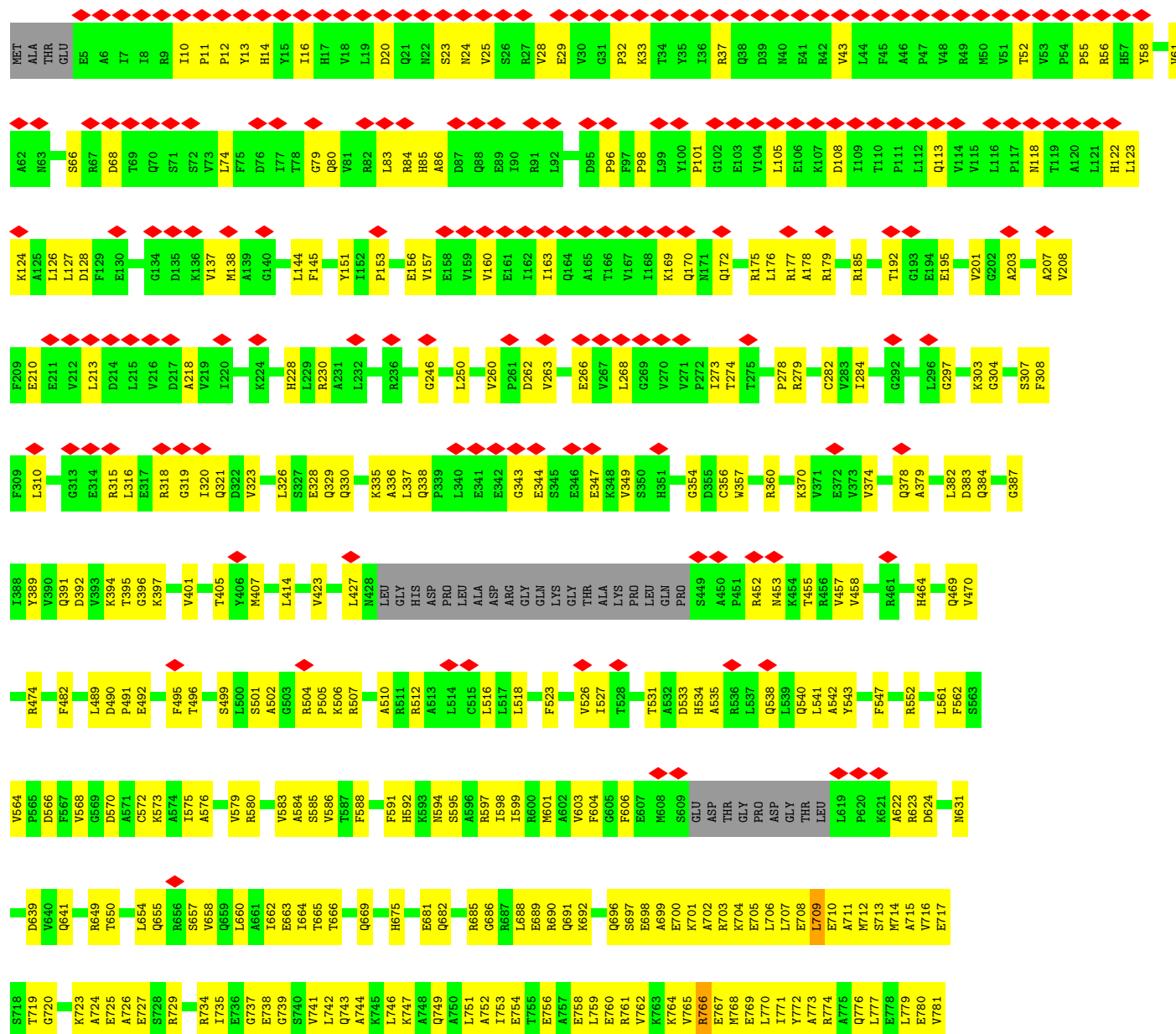


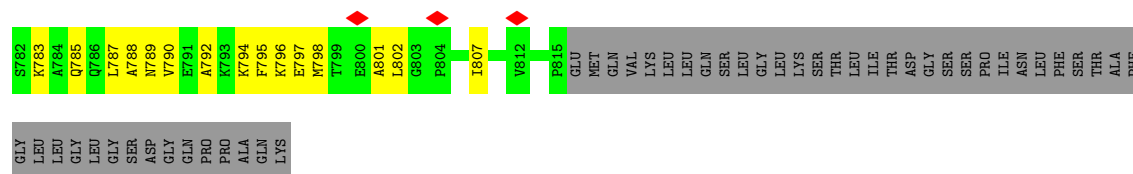
• Molecule 1: Major vault protein



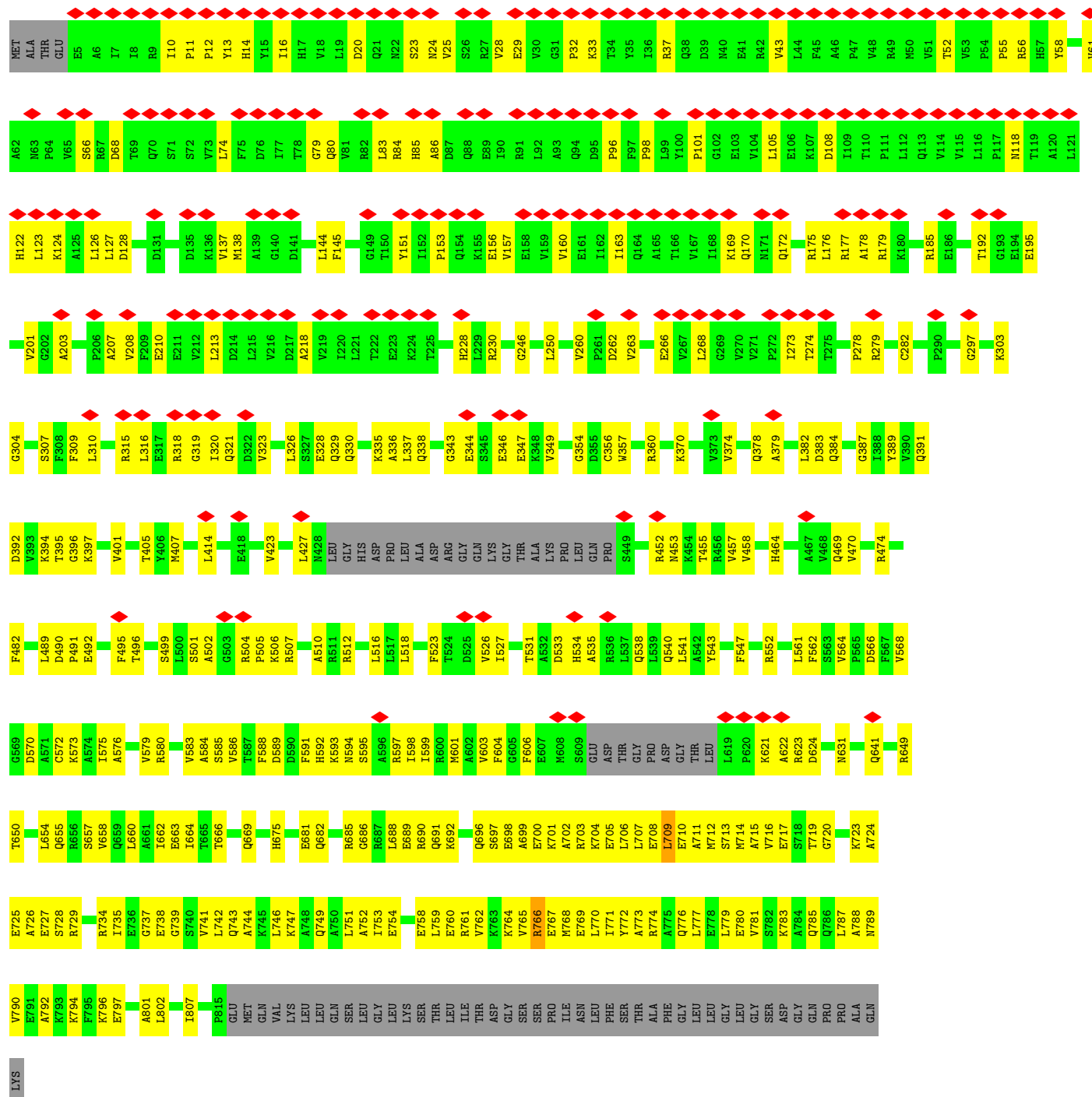


• Molecule 1: Major vault protein

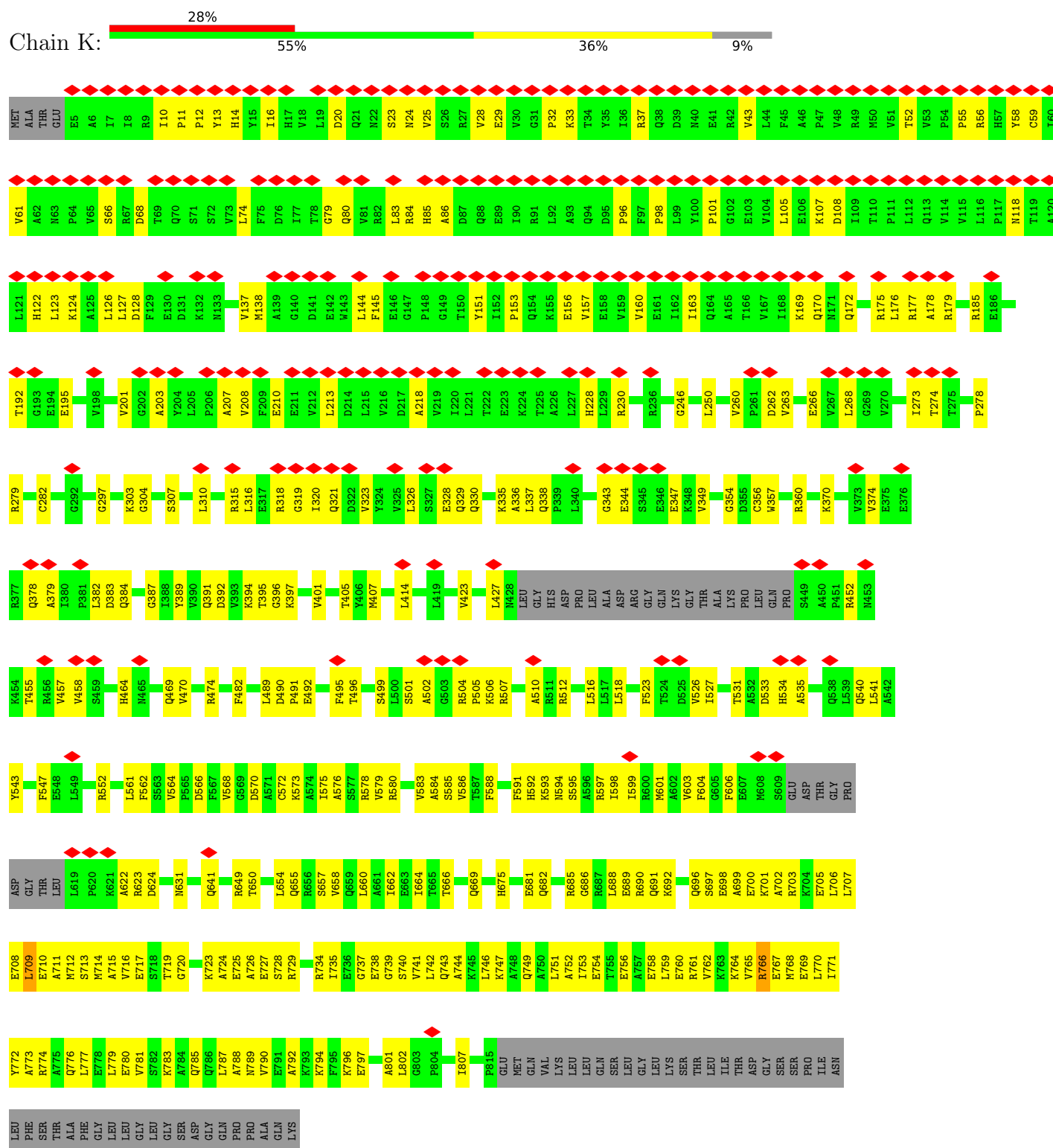




• Molecule 1: Major vault protein

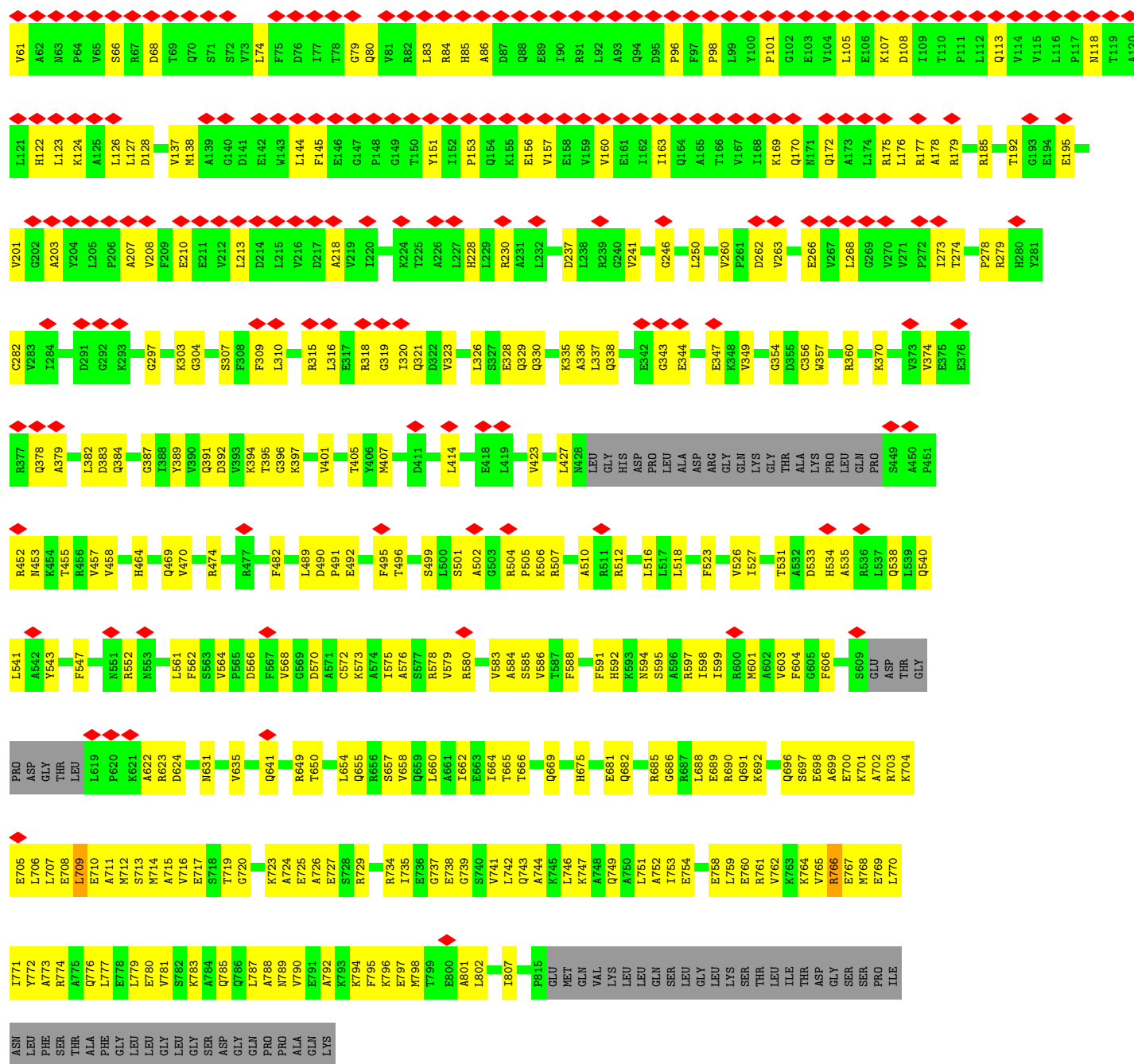


• Molecule 1: Major vault protein



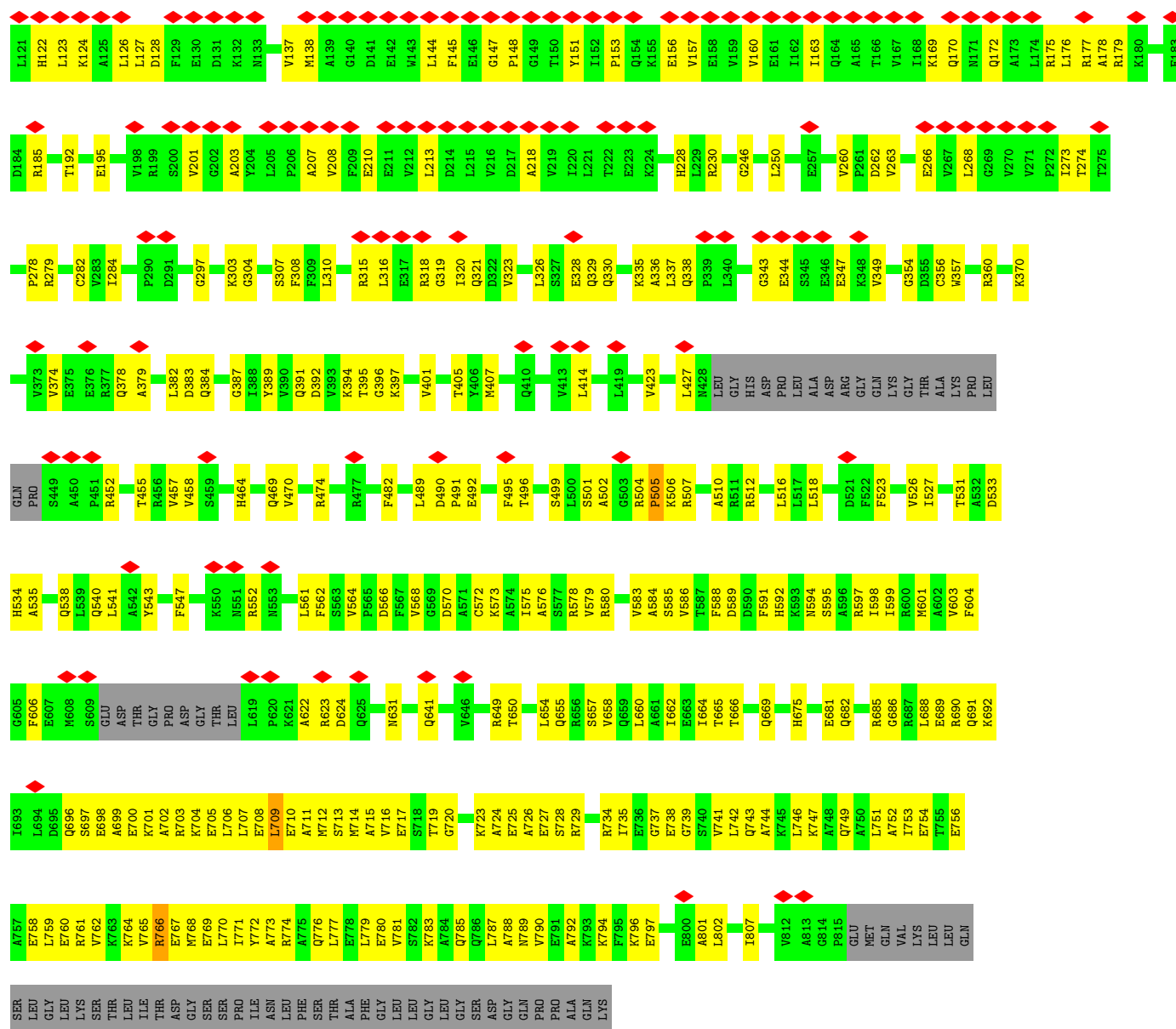
• Molecule 1: Major vault protein





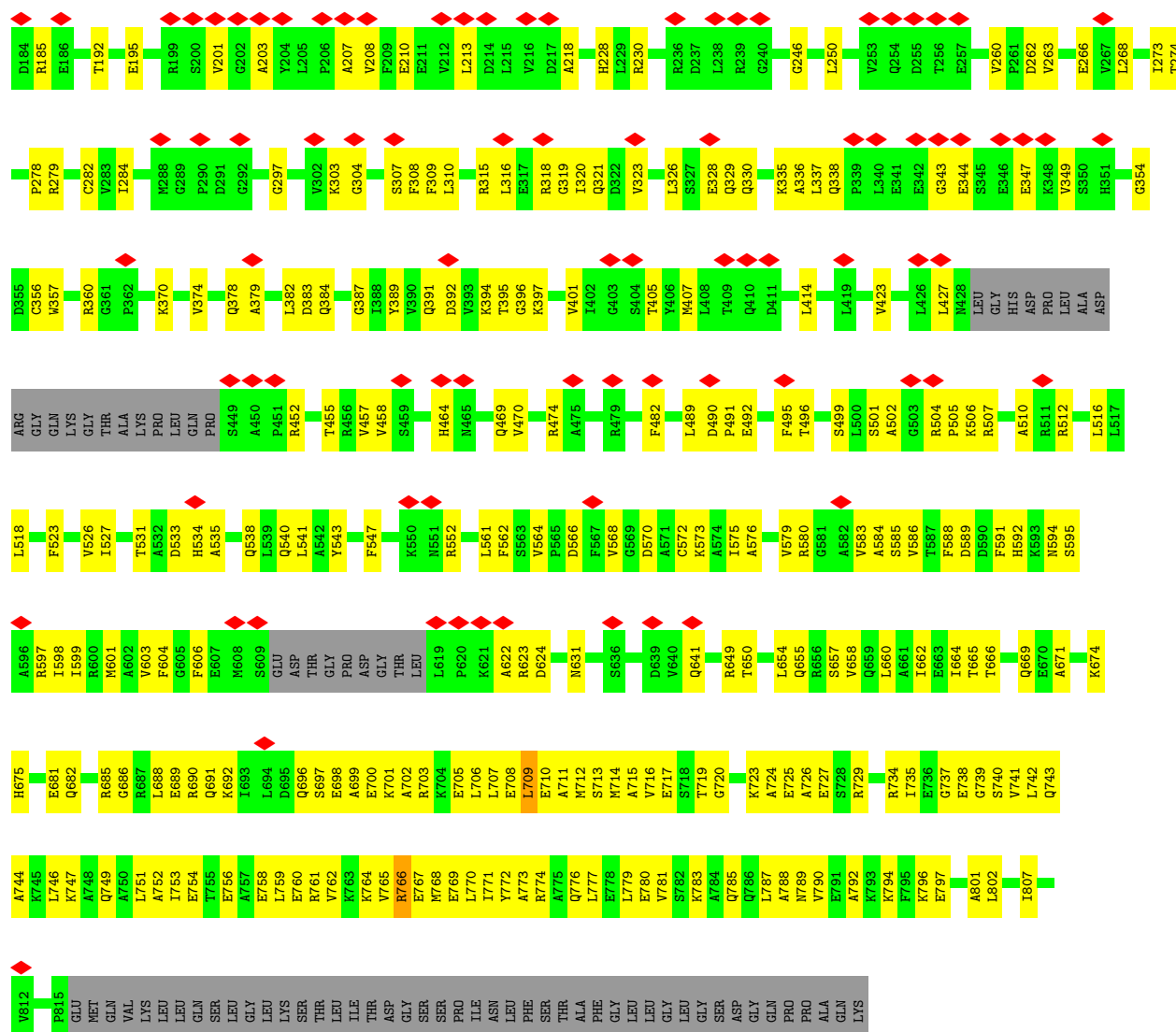
Molecule 1: Major vault protein





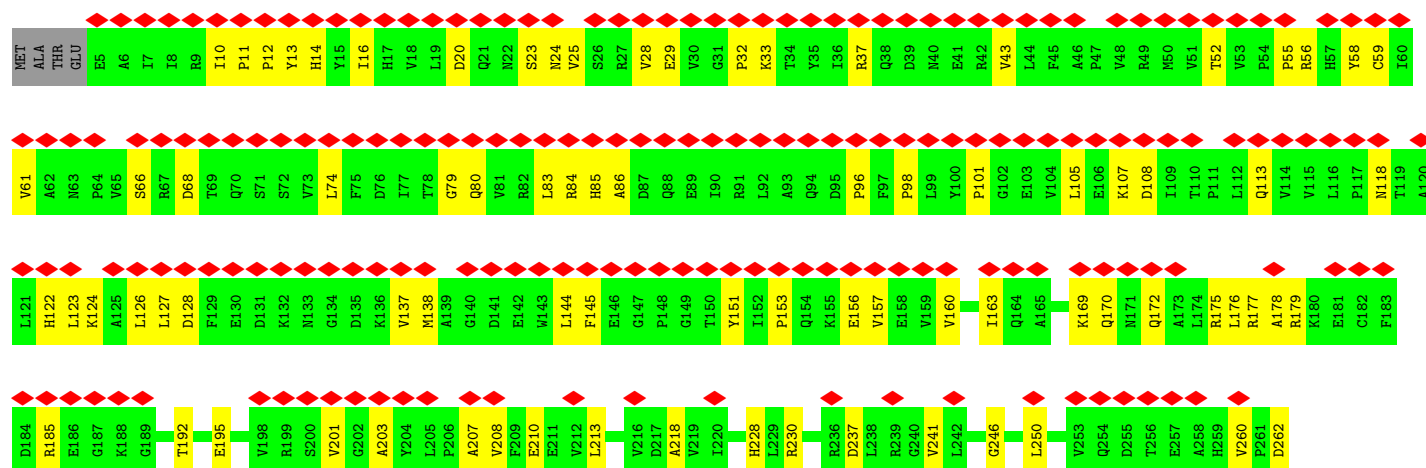
• Molecule 1: Major vault protein

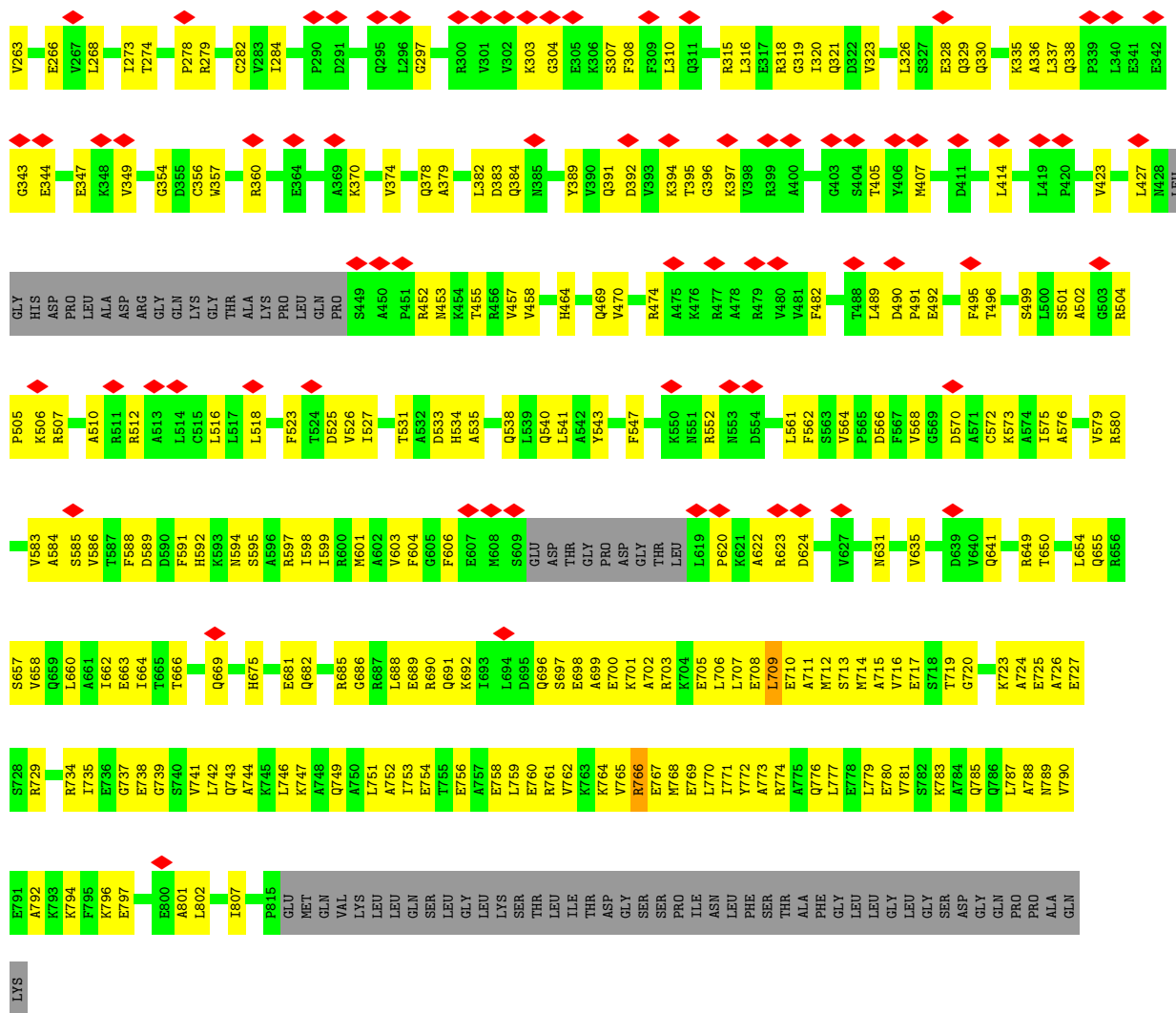




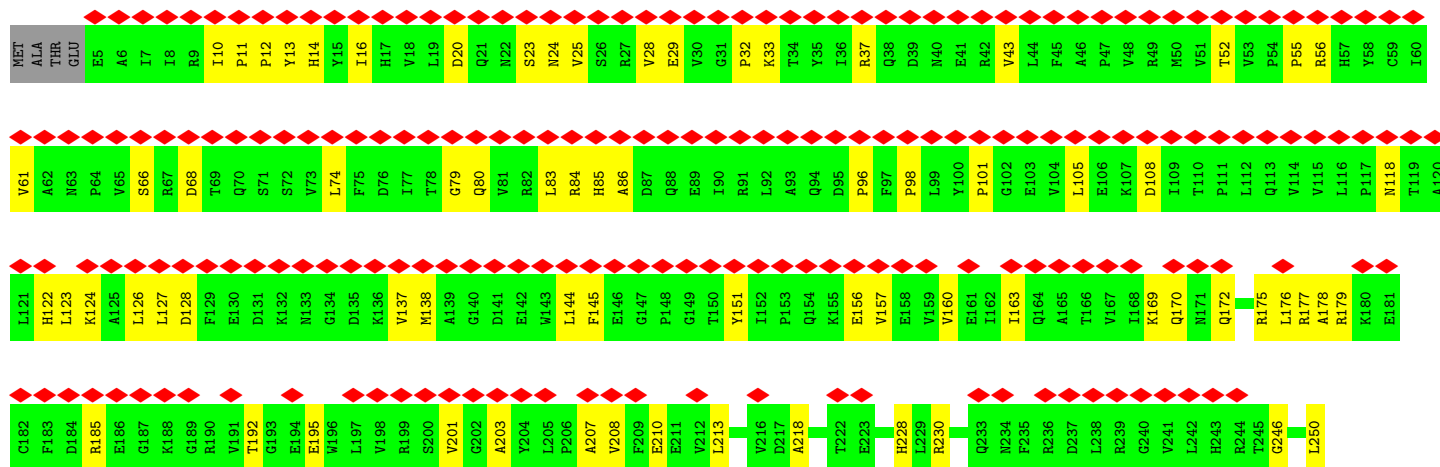
• Molecule 1: Major vault protein

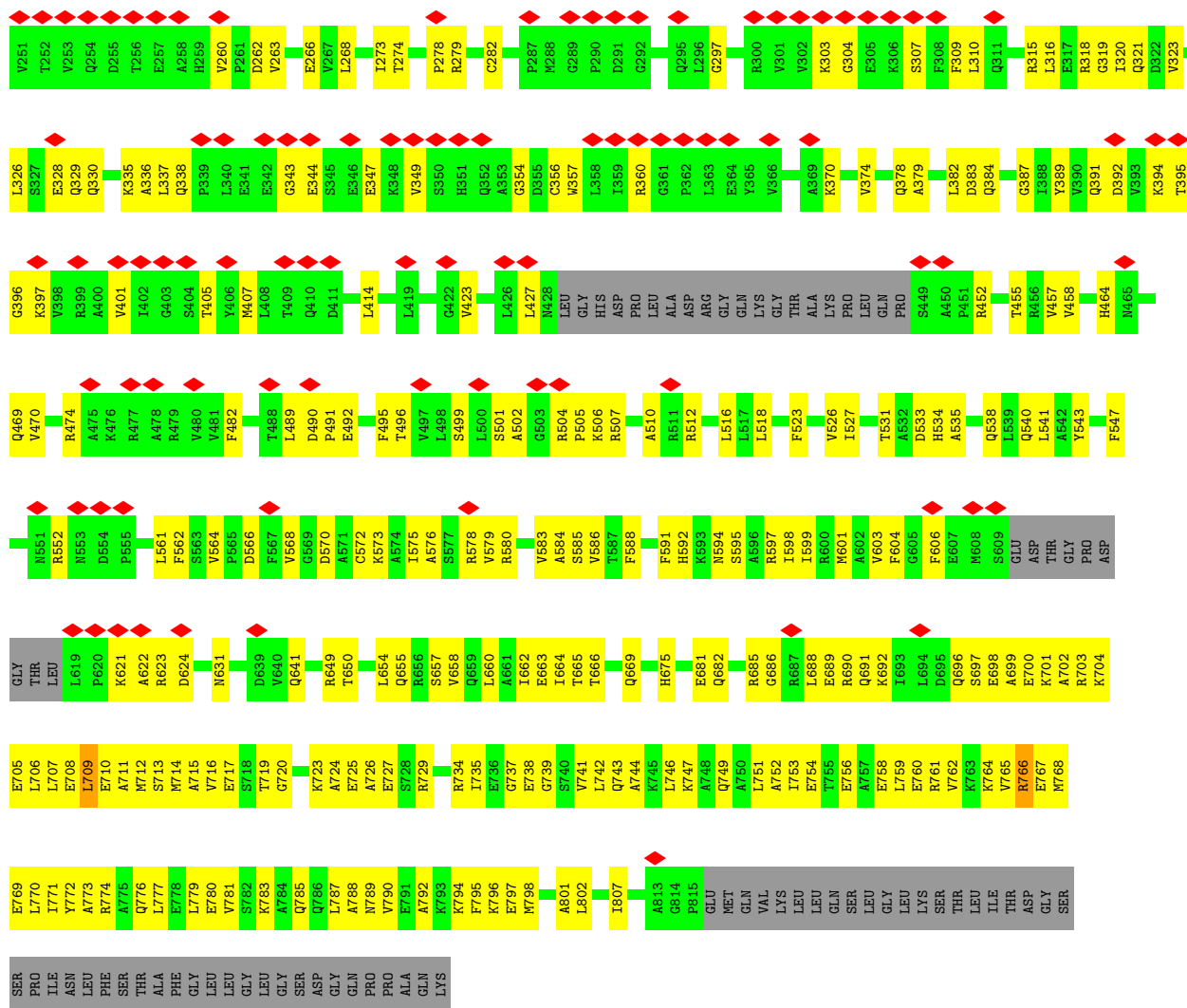
Chain P:



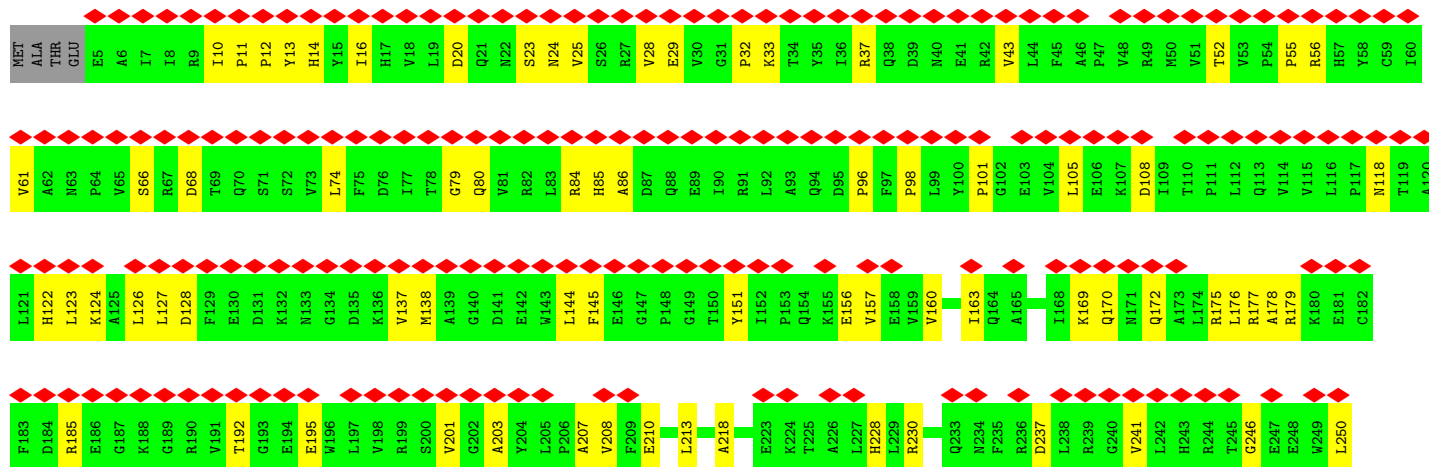


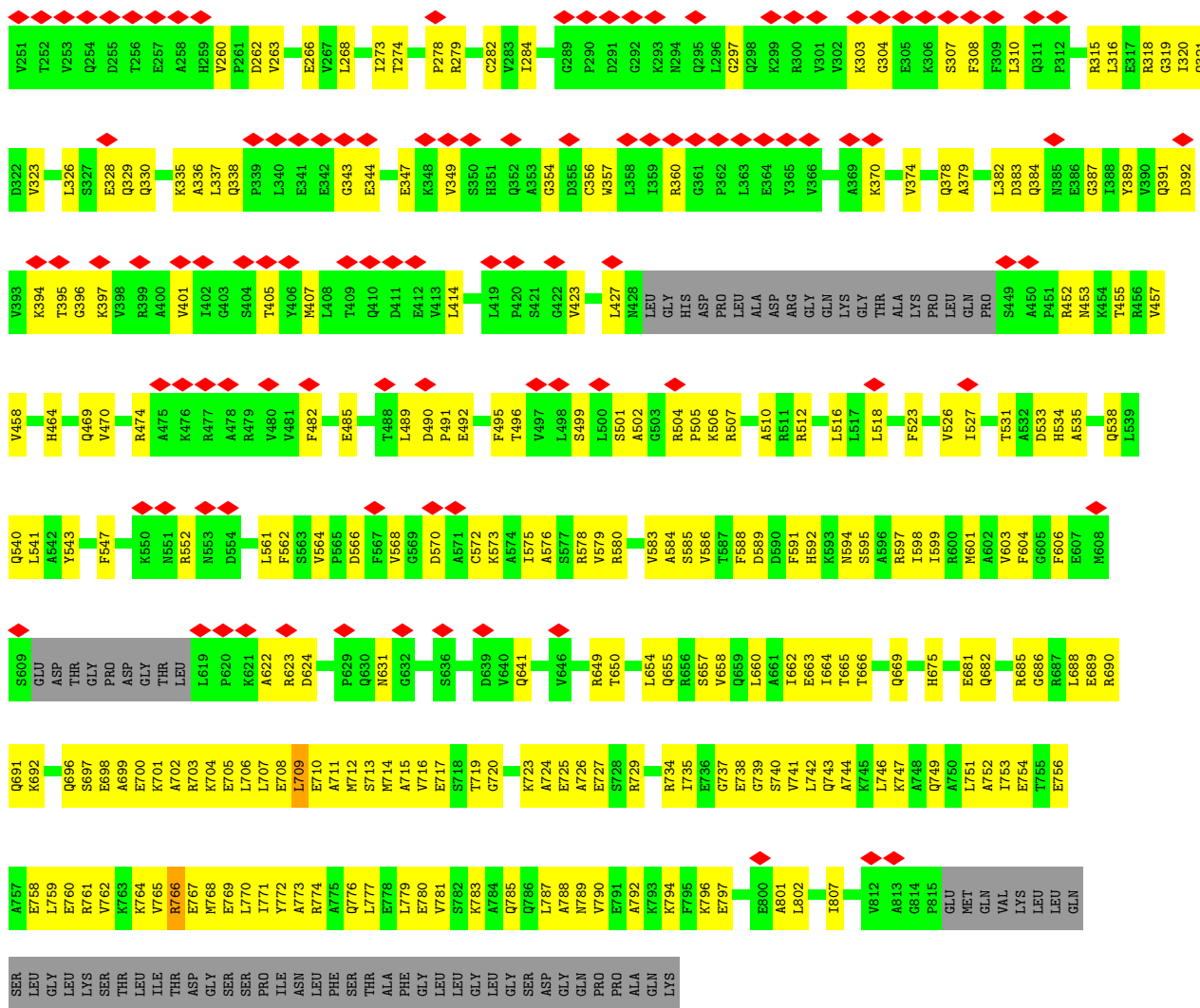
• Molecule 1: Major vault protein



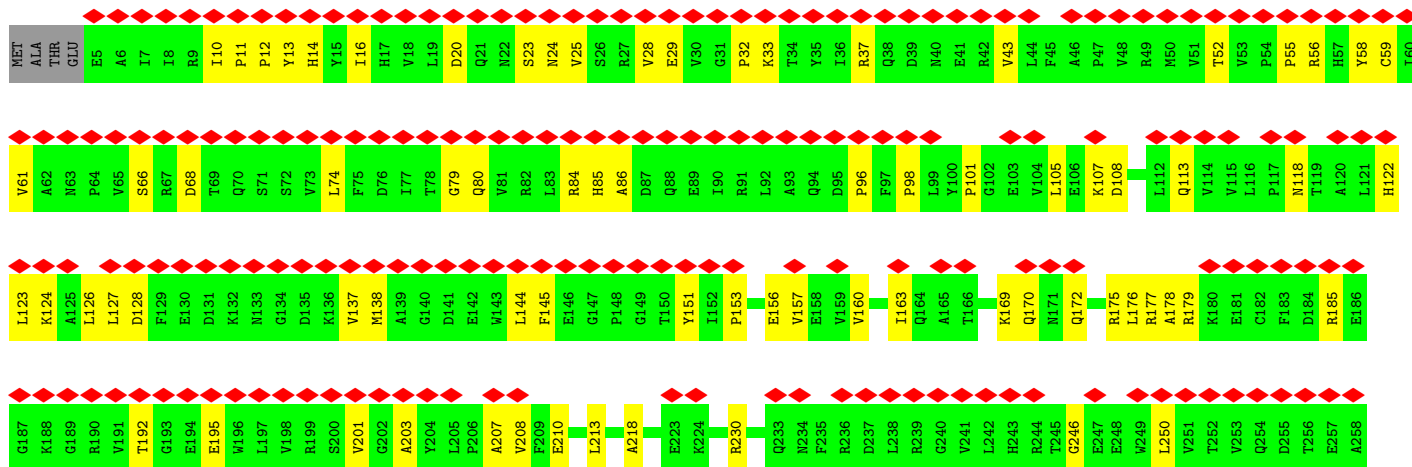


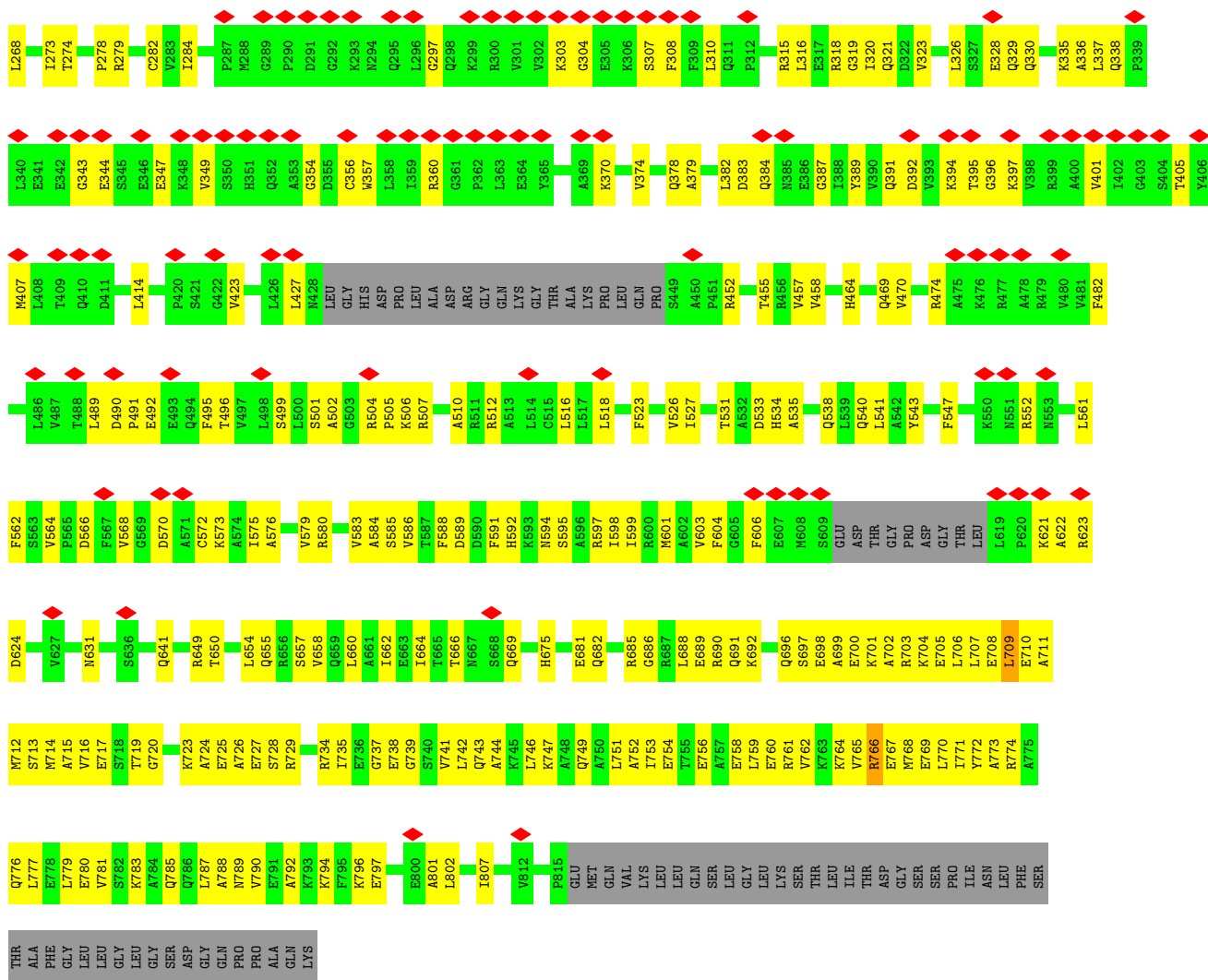
• Molecule 1: Major vault protein



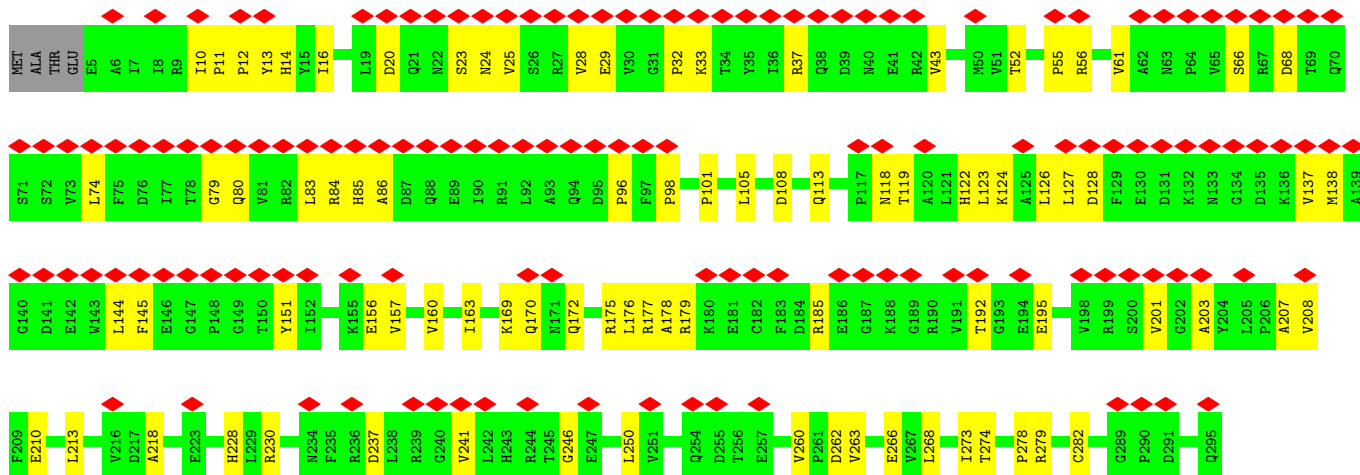


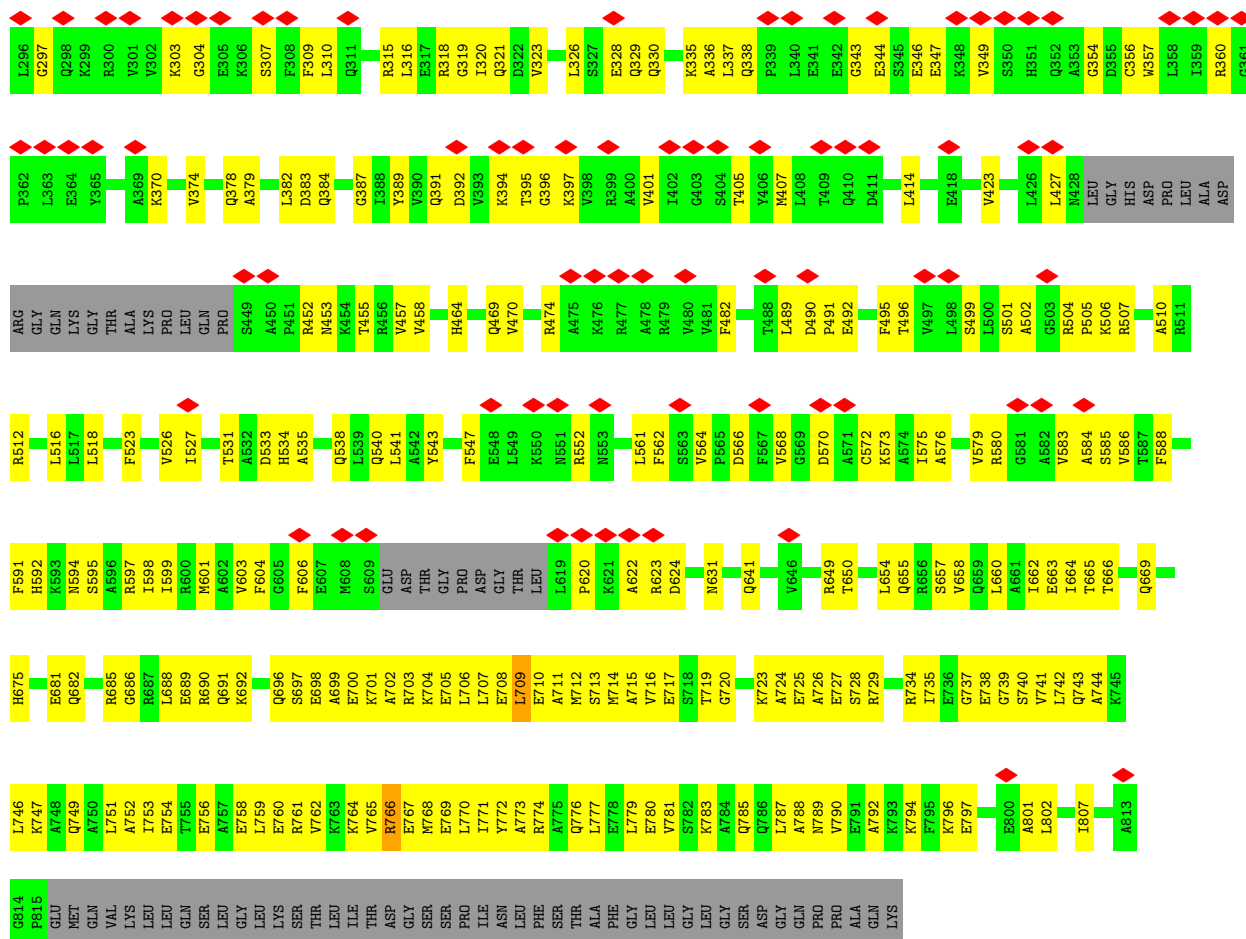
• Molecule 1: Major vault protein



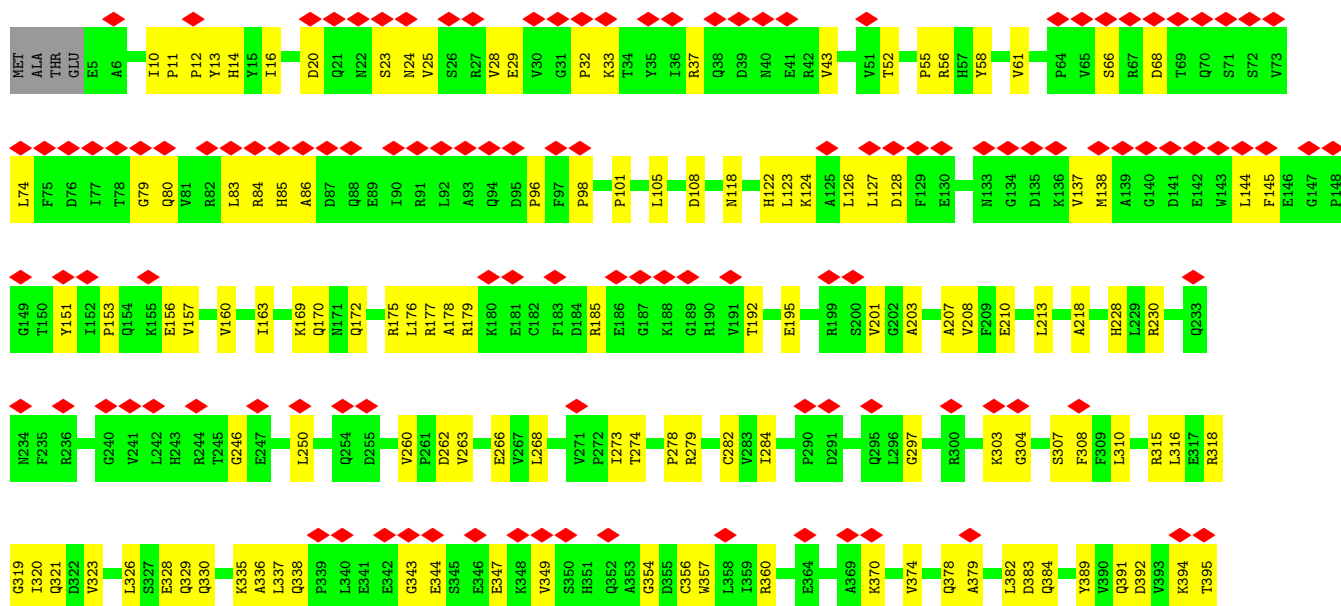


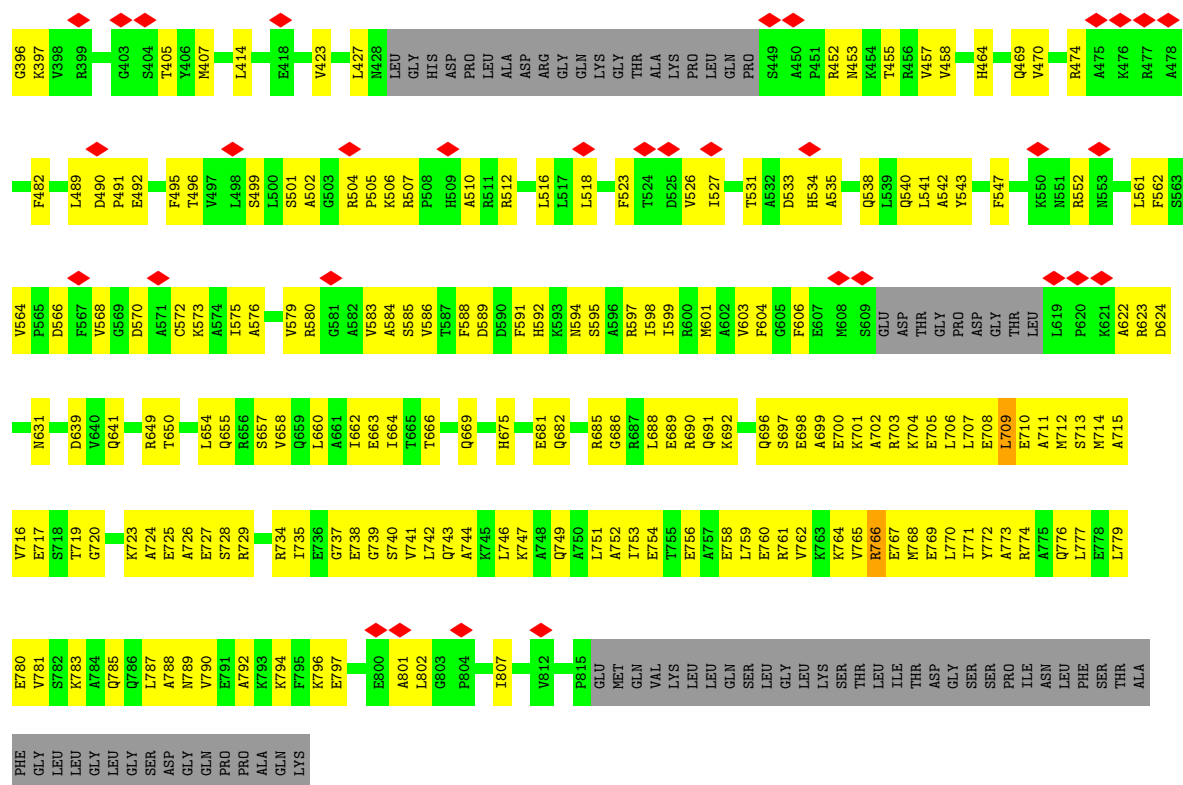
• Molecule 1: Major vault protein



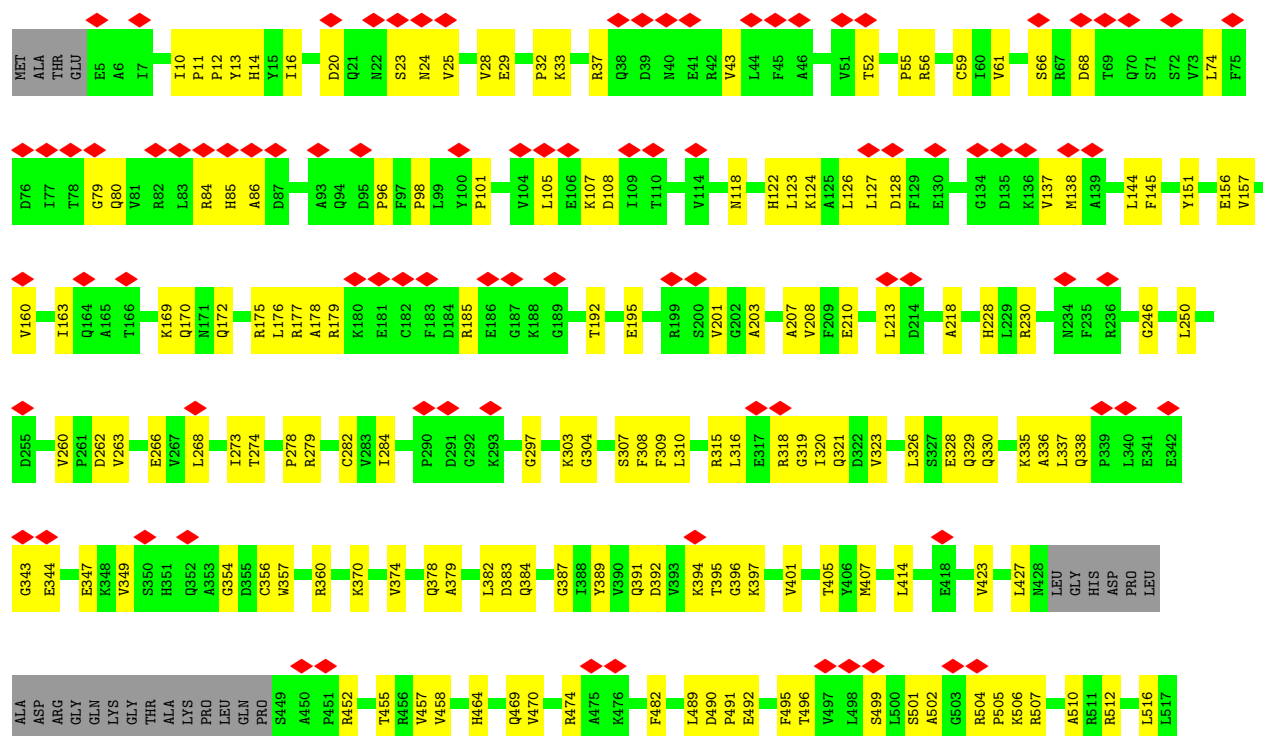


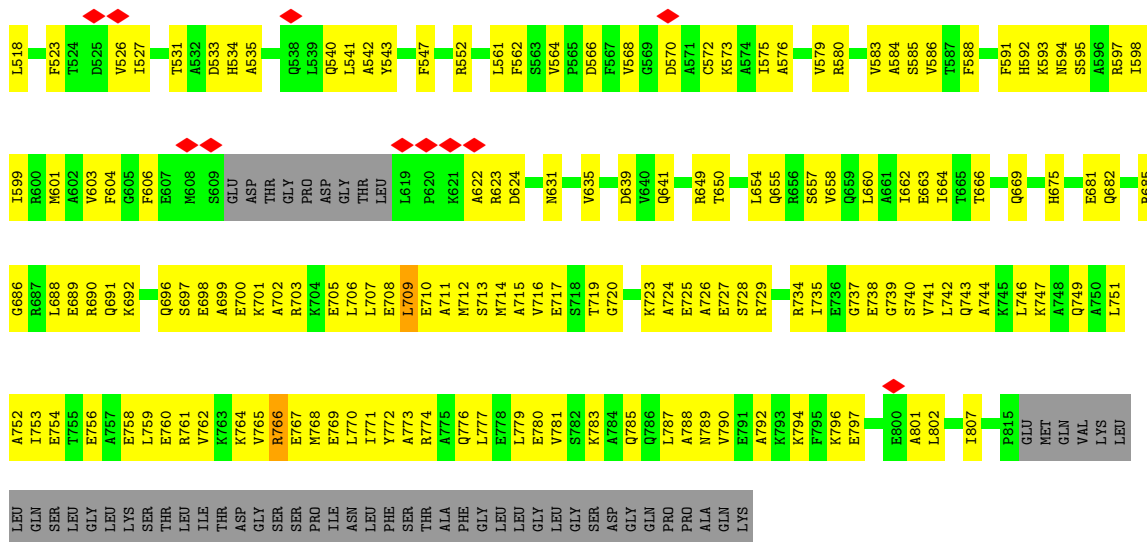
• Molecule 1: Major vault protein



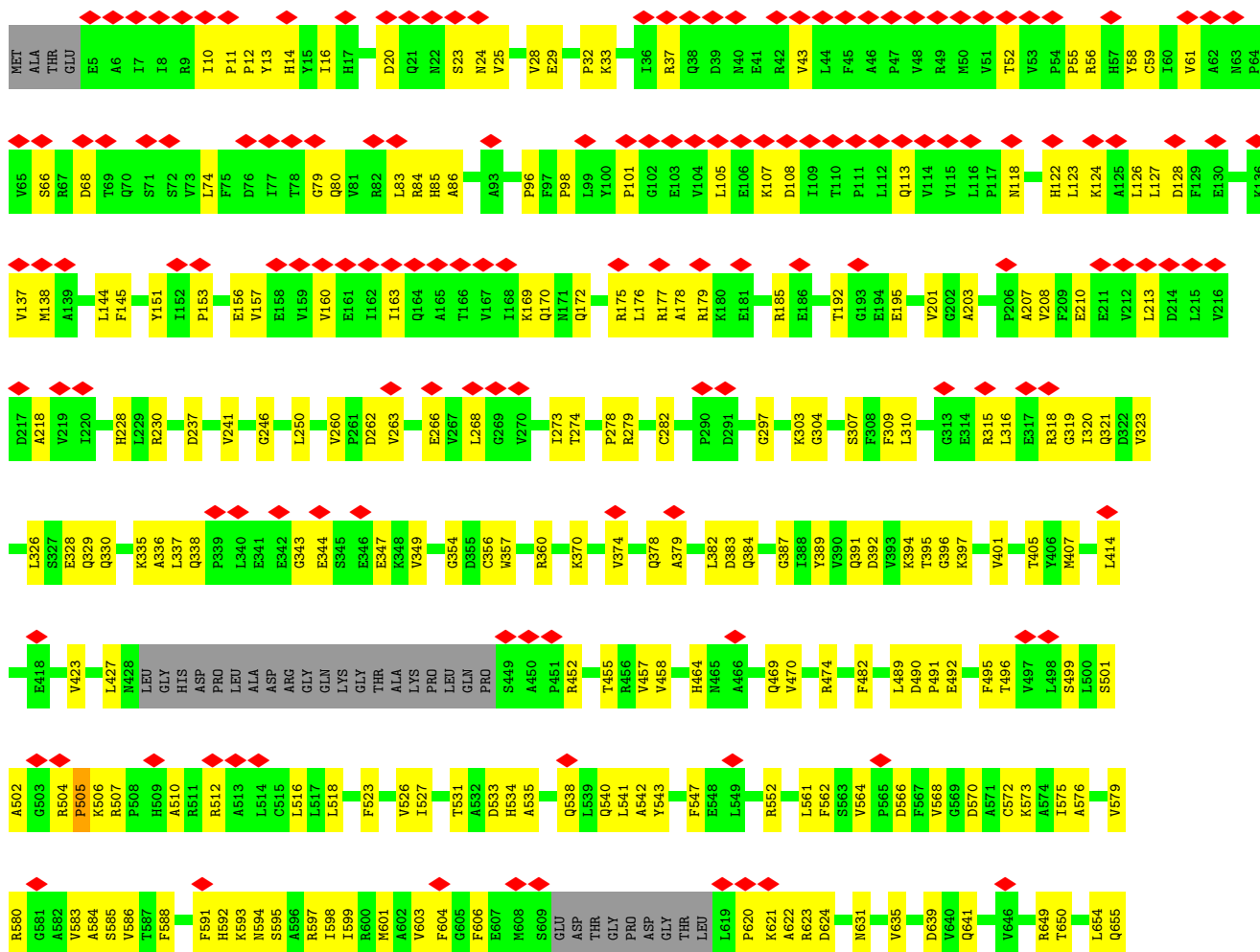


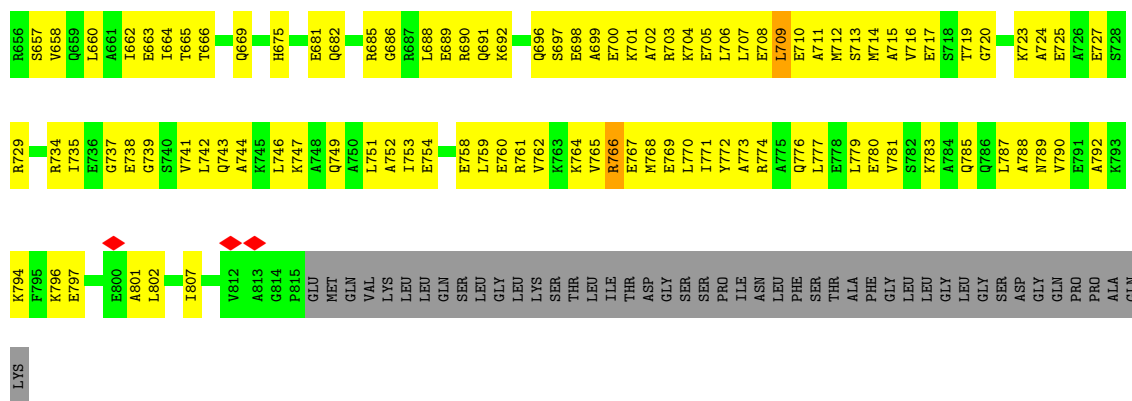
• Molecule 1: Major vault protein



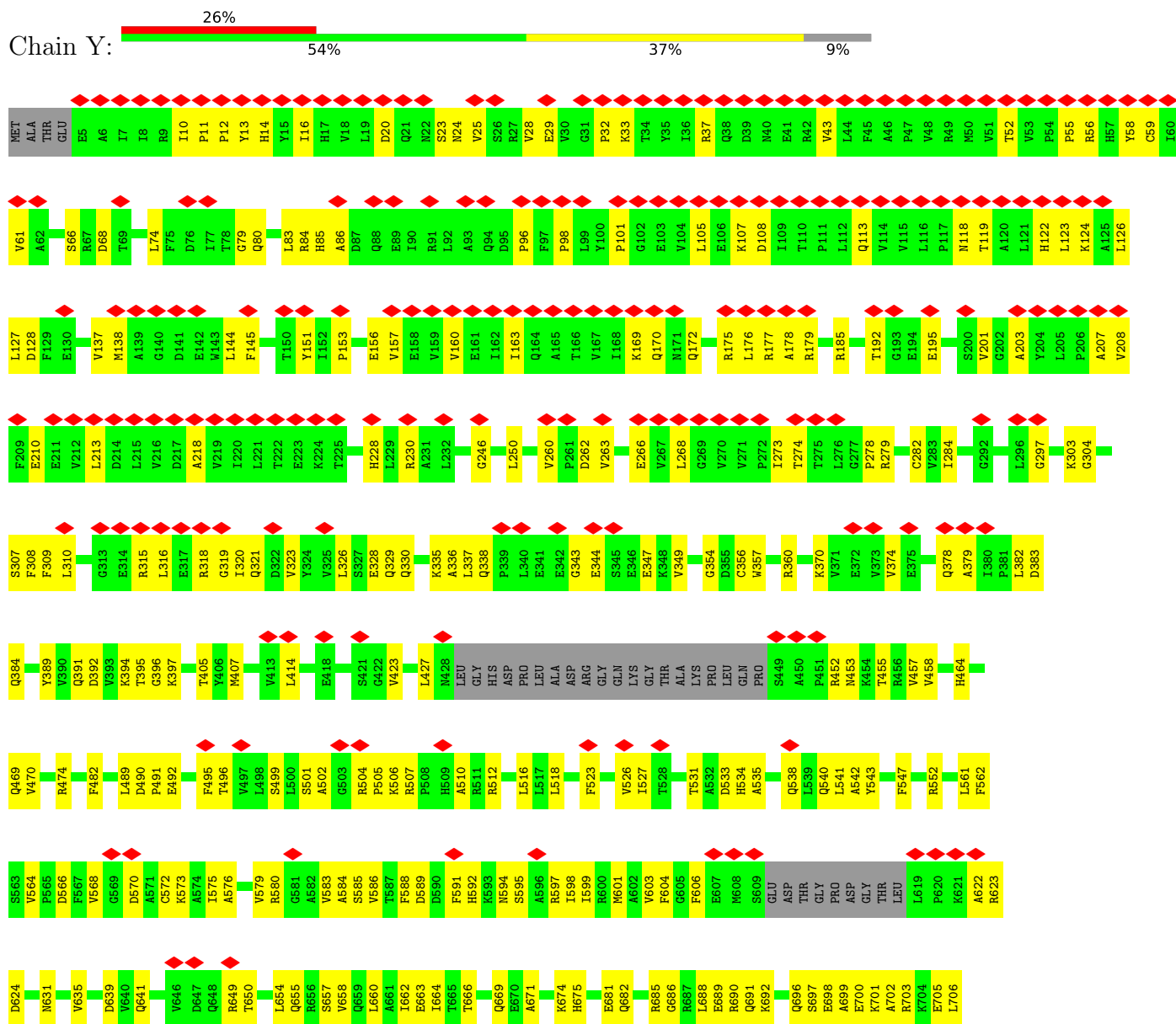


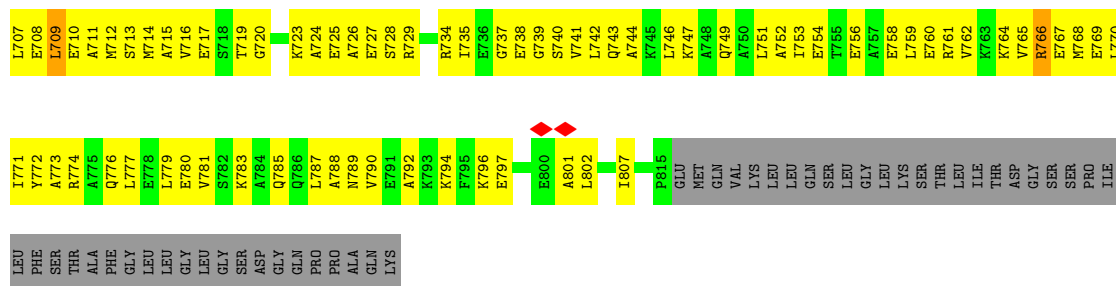
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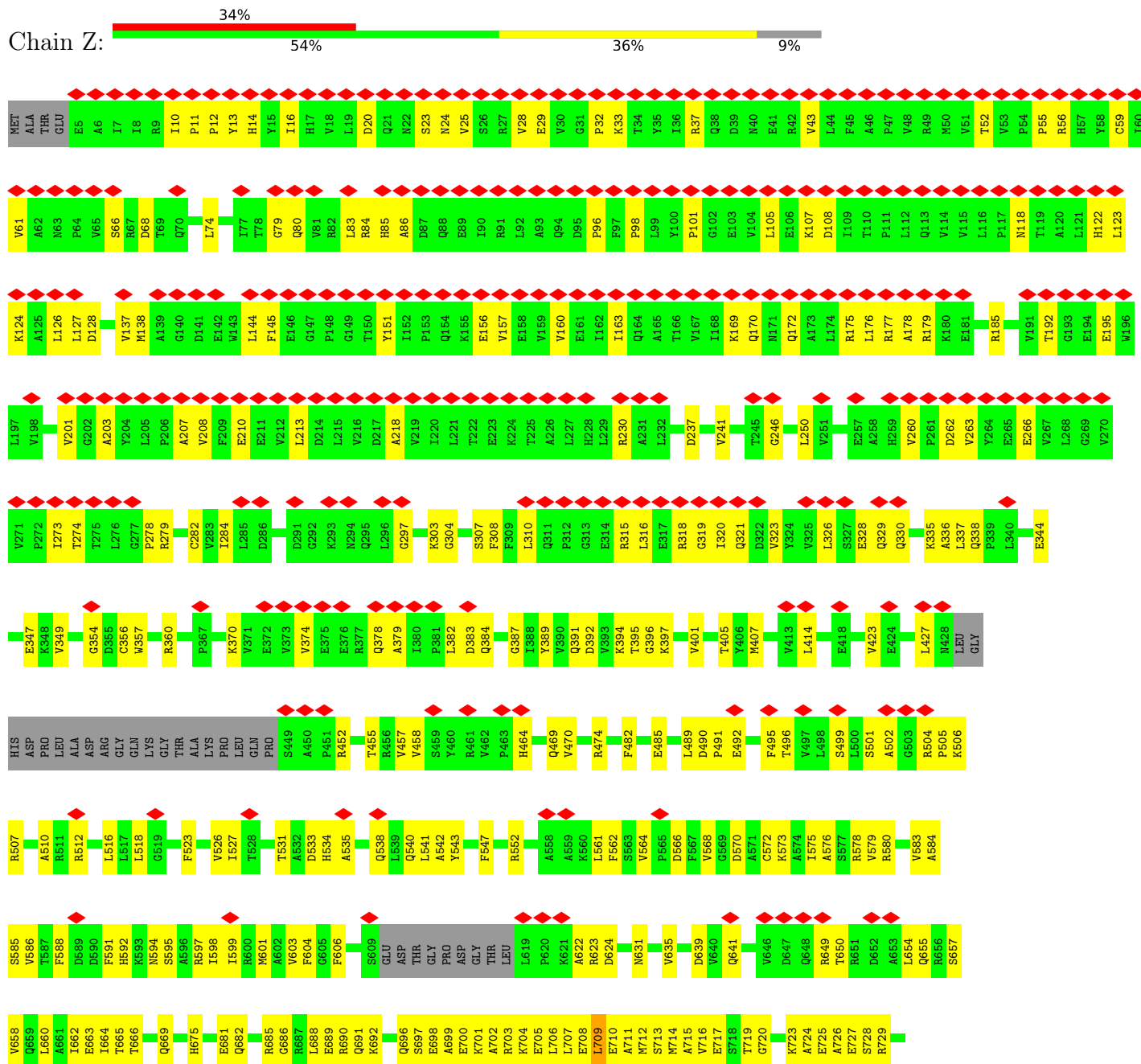


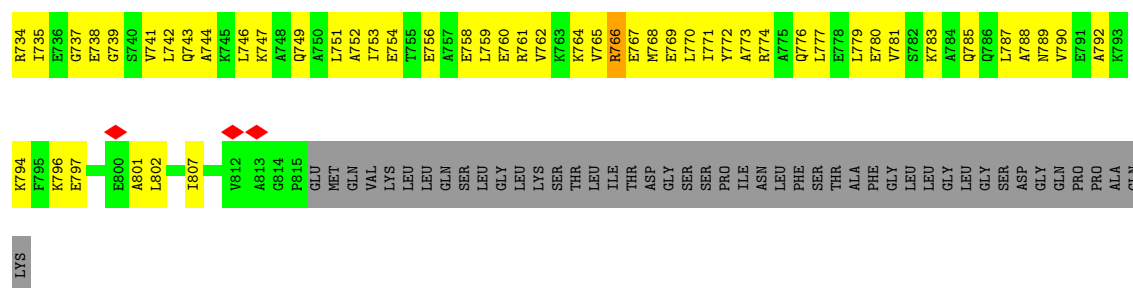
• Molecule 1: Major vault protein



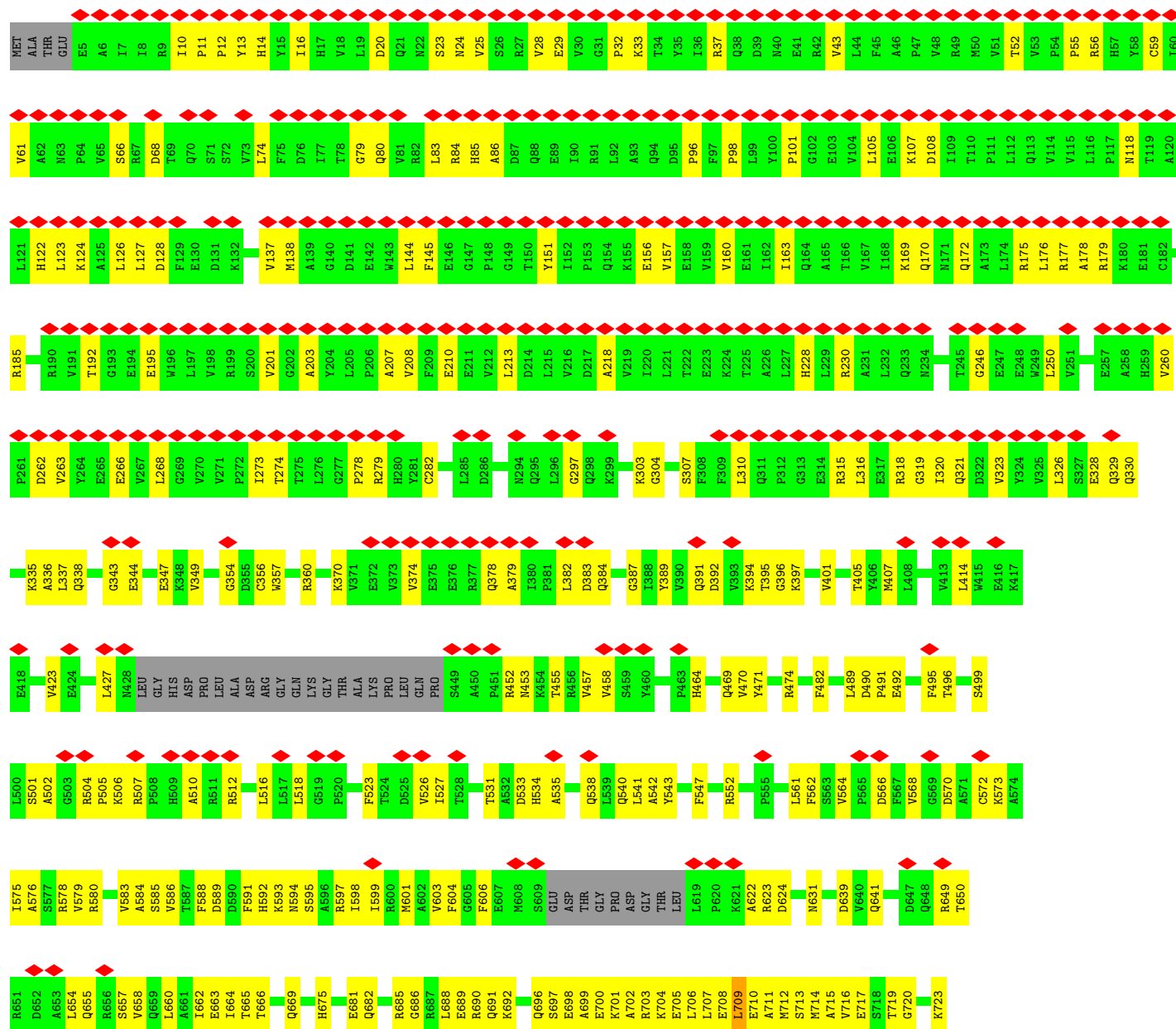
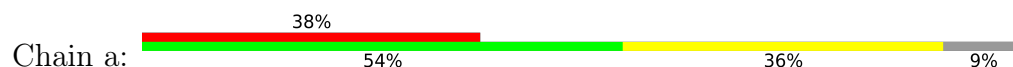


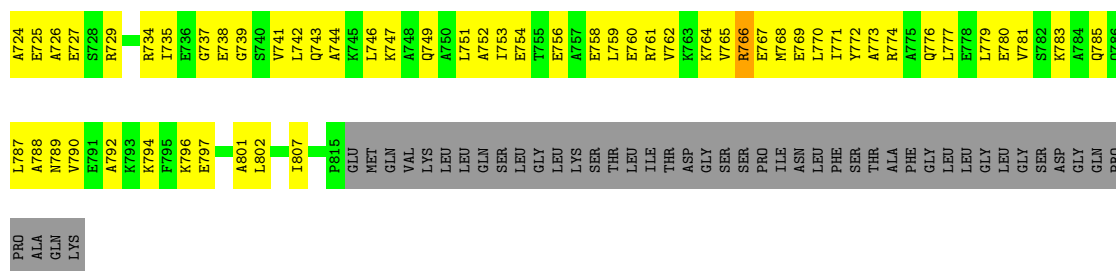
• Molecule 1: Major vault protein



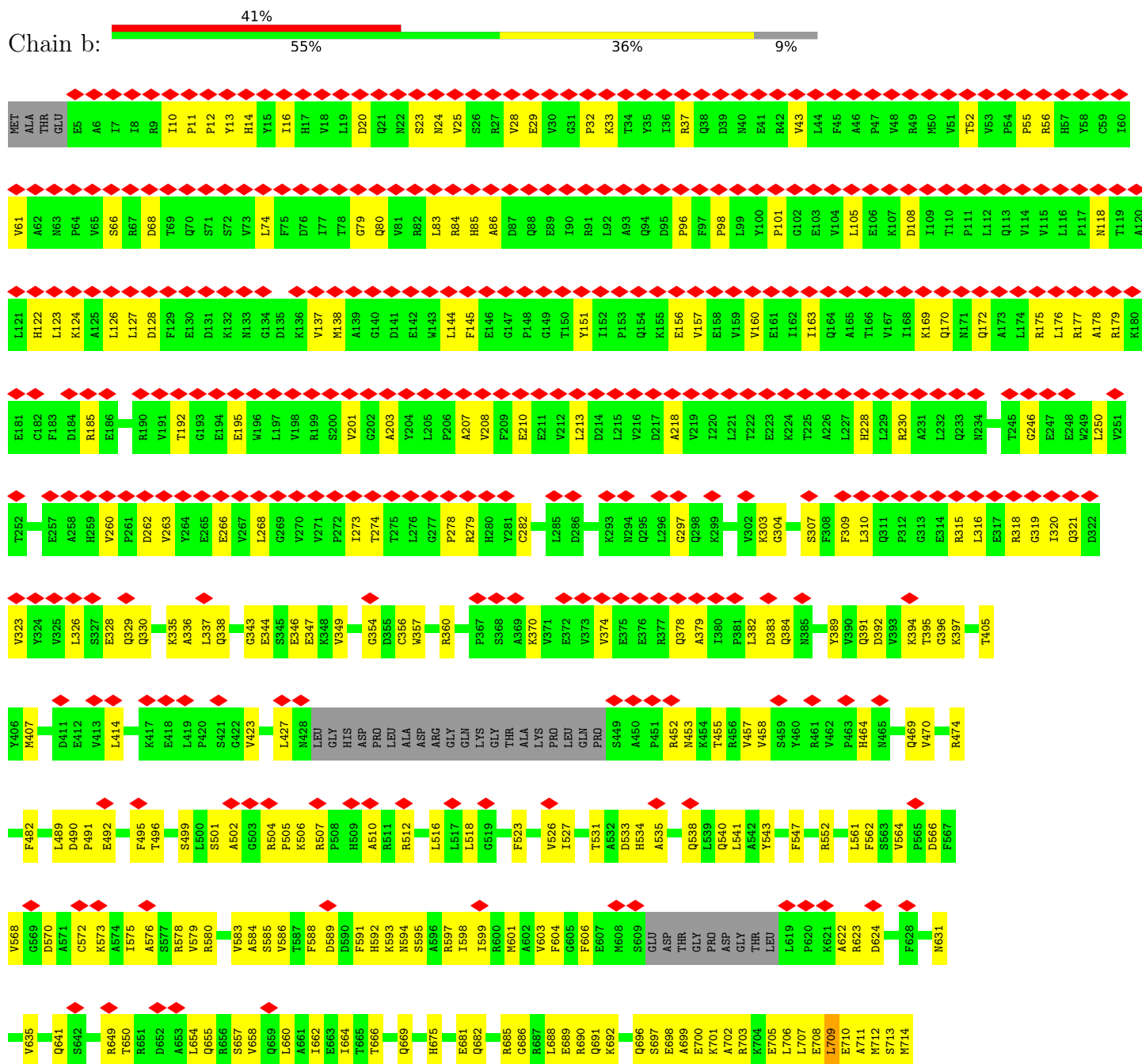


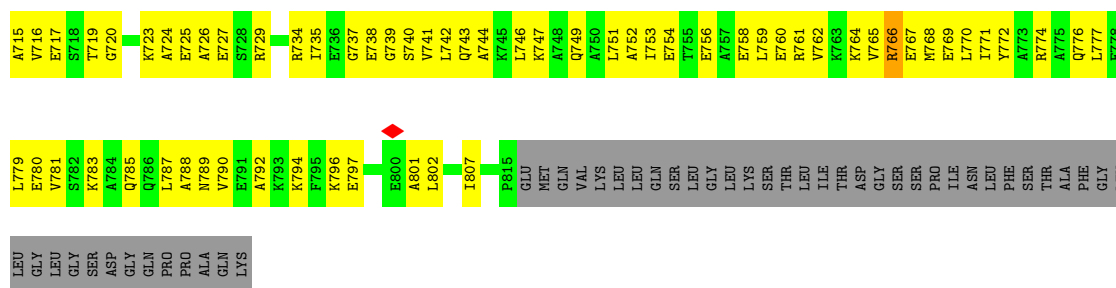
• Molecule 1: Major vault protein



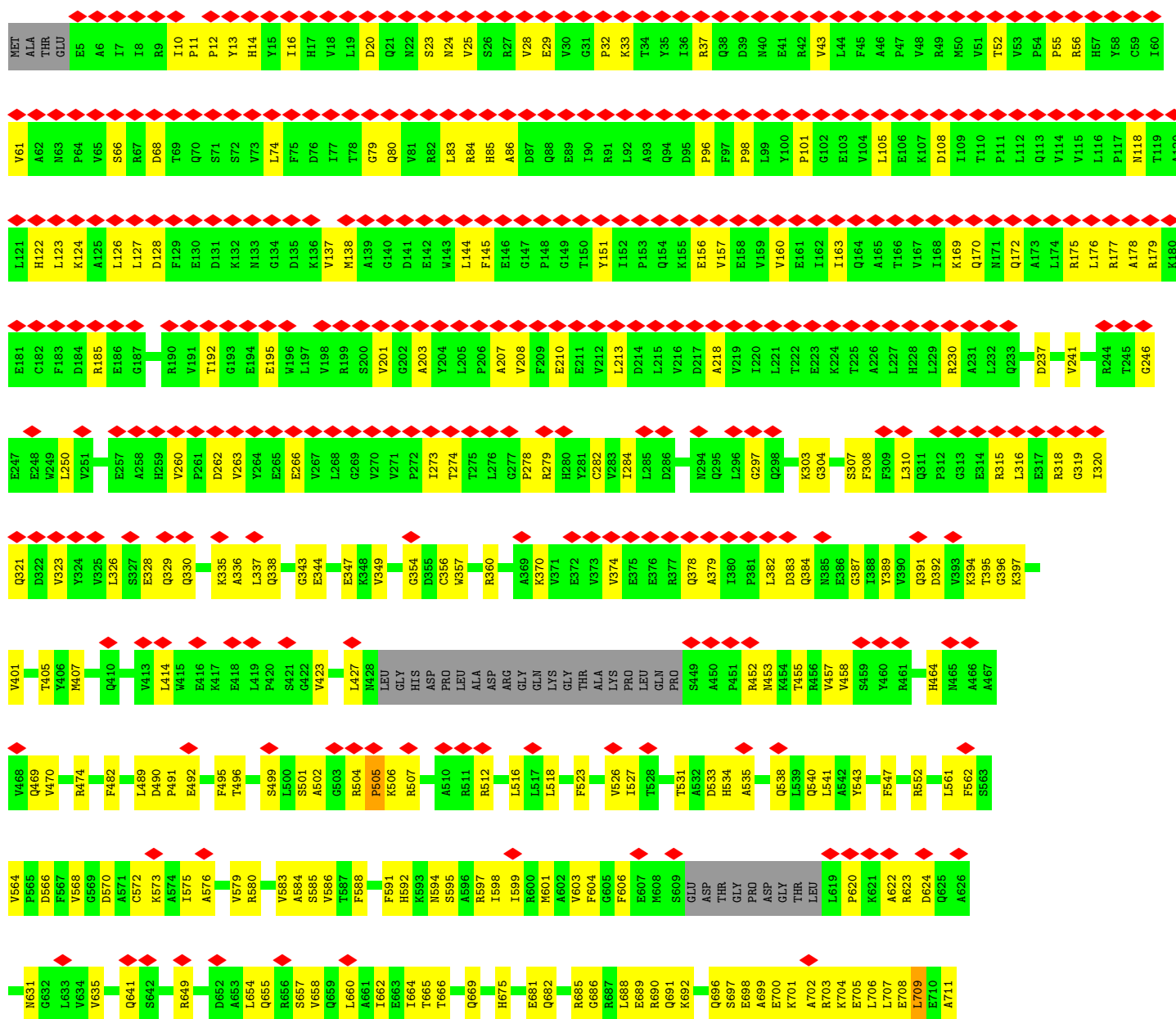
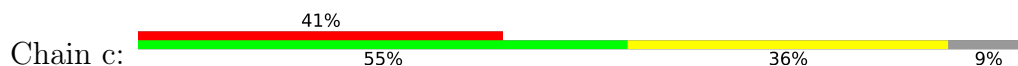


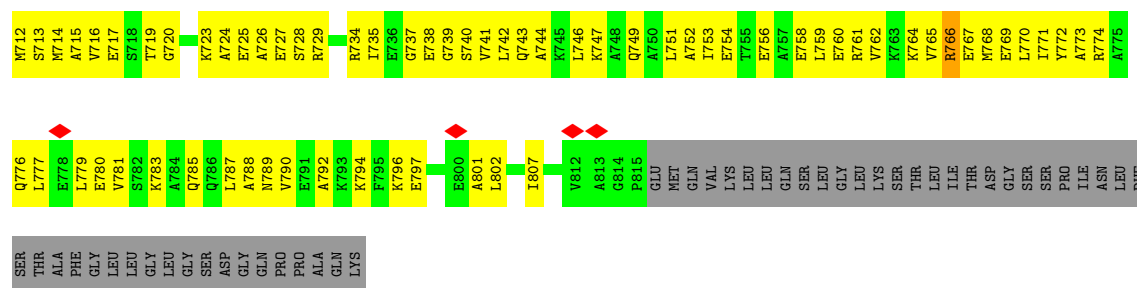
• Molecule 1: Major vault protein



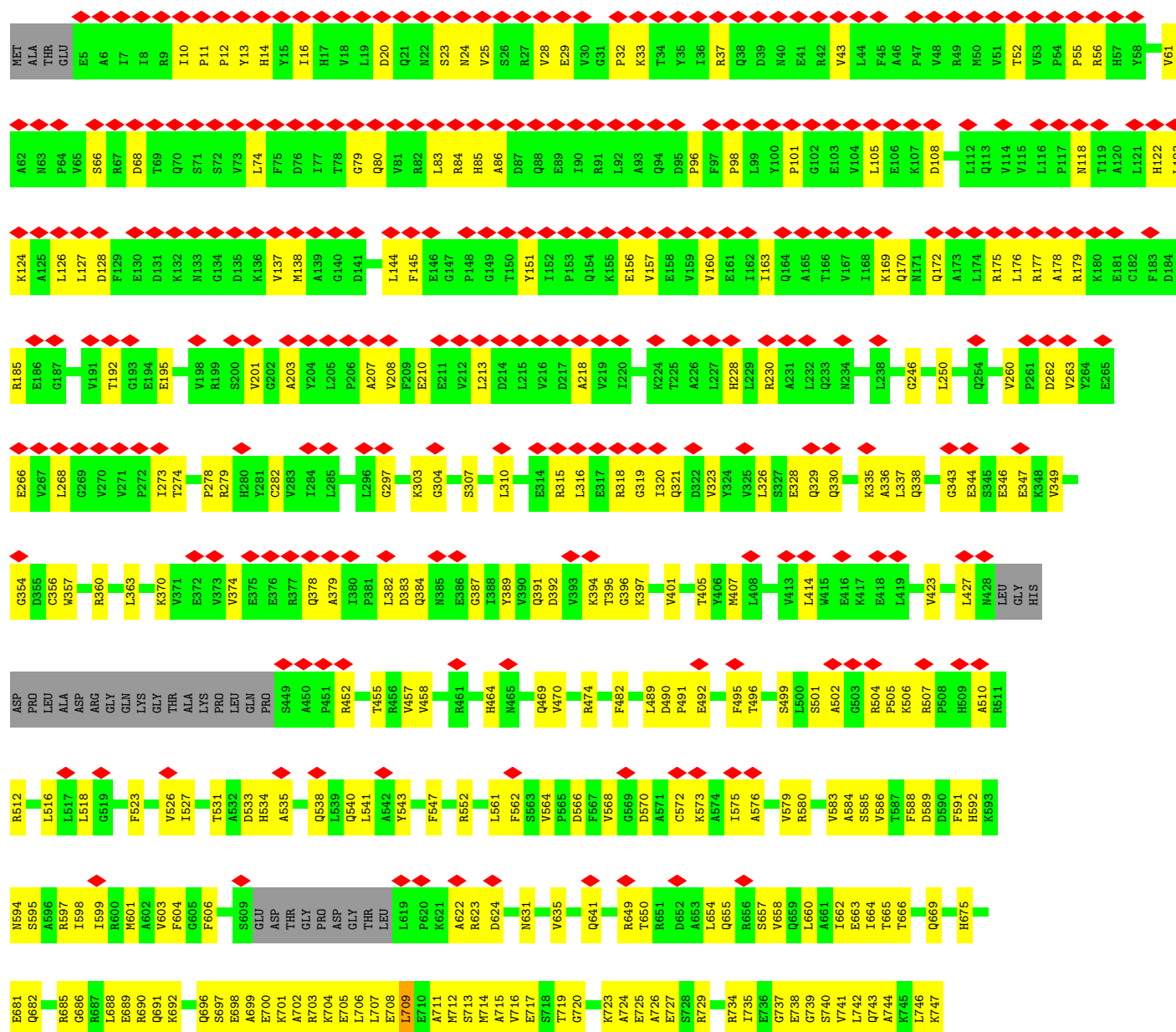


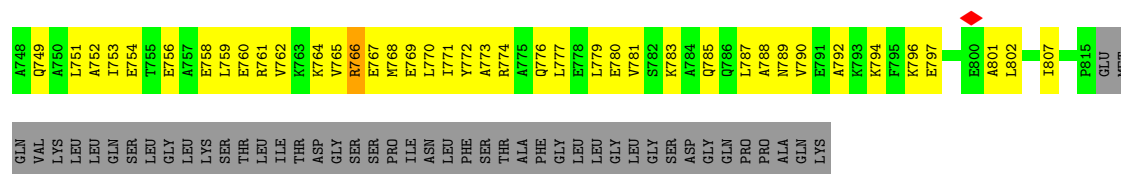
• Molecule 1: Major vault protein





Molecule 1: Major vault protein

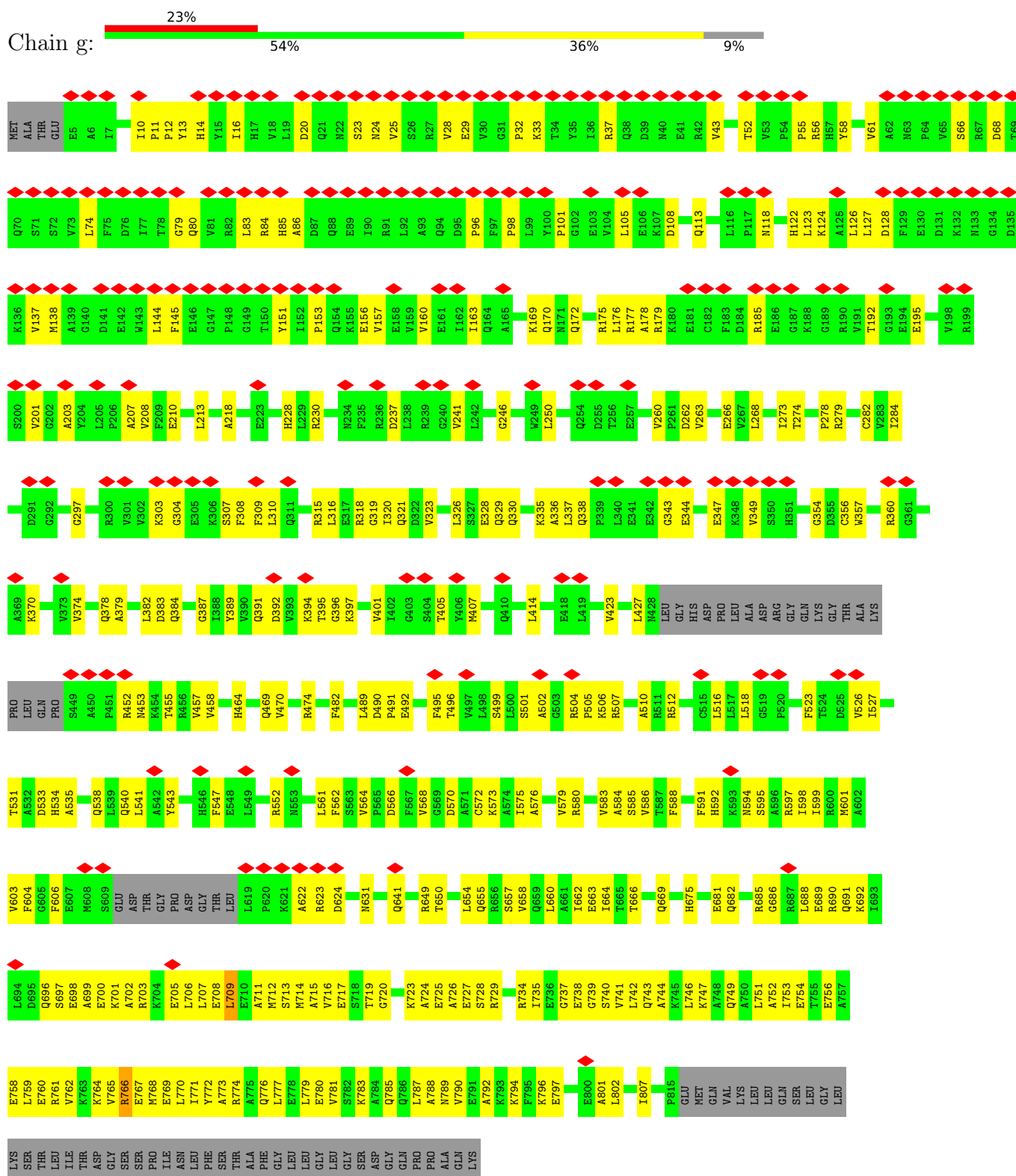




• Molecule 1: Major vault protein



- Molecule 1: Major vault protein

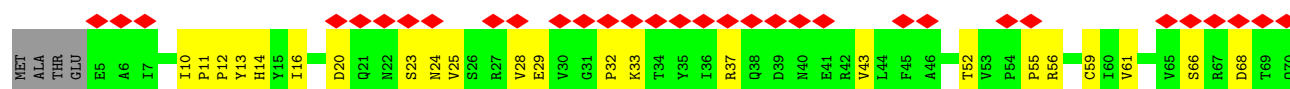


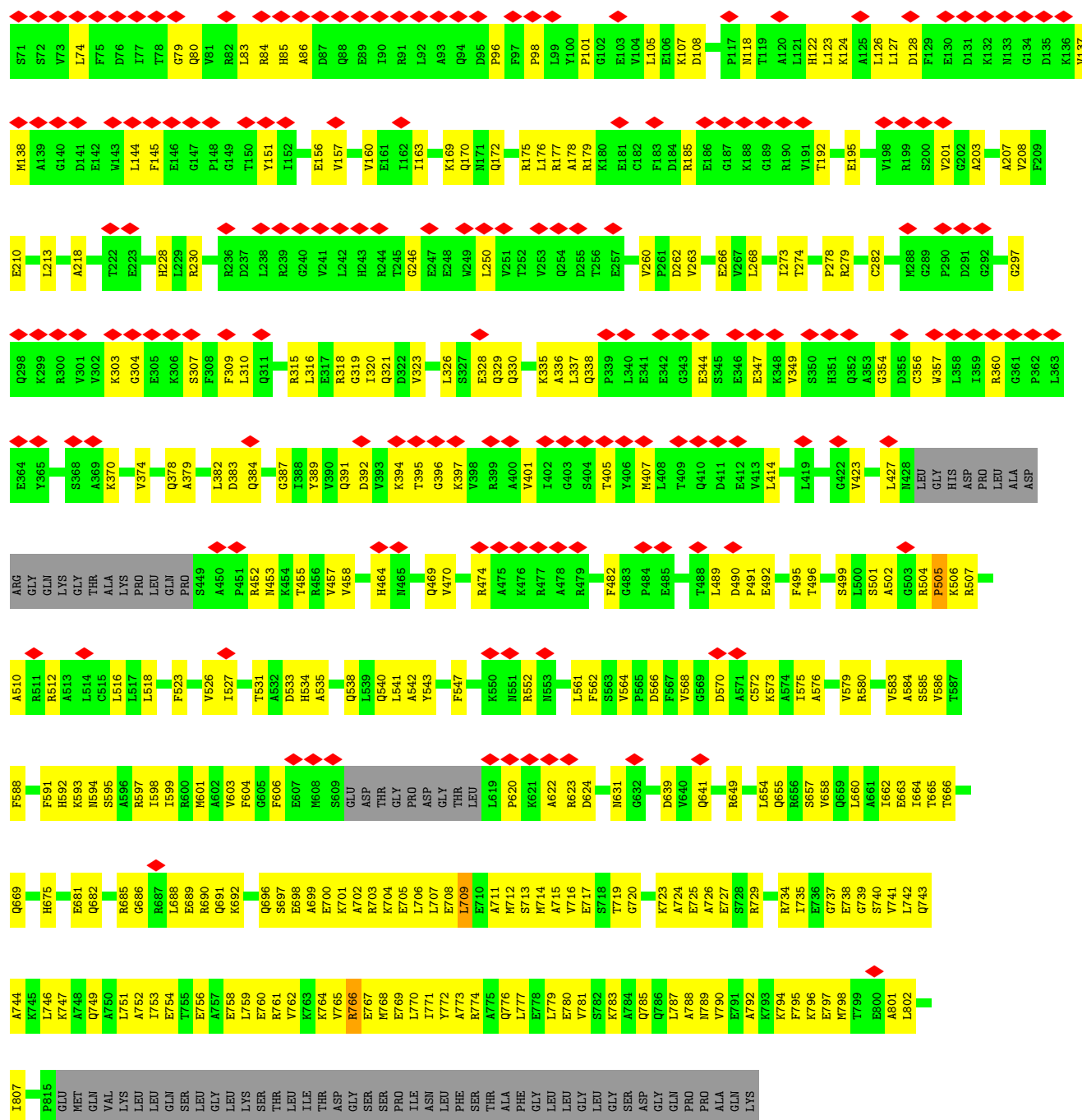
• Molecule 1: Major vault protein



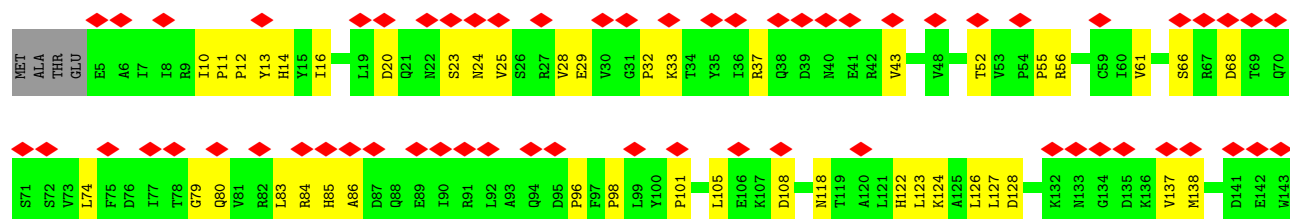


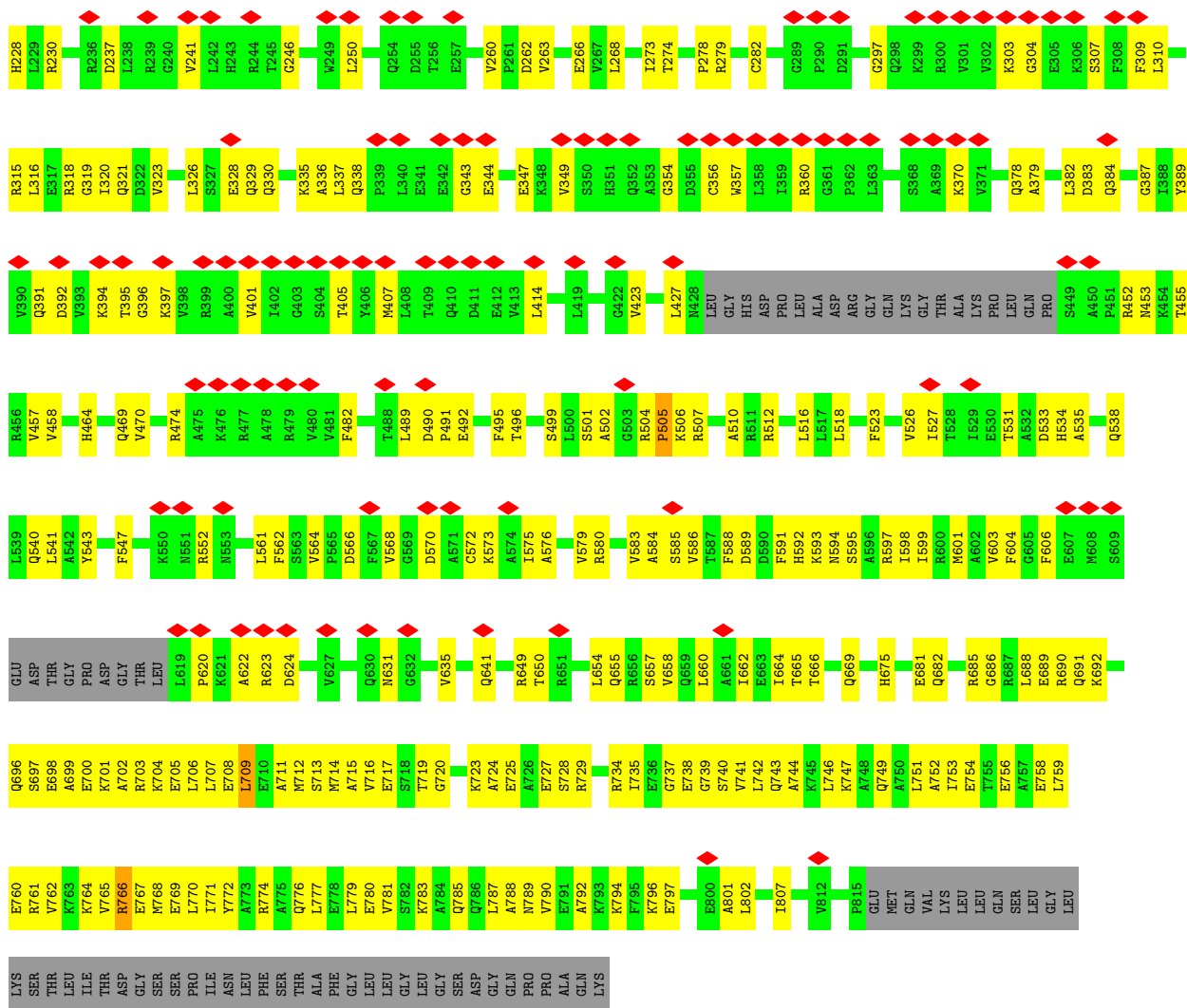
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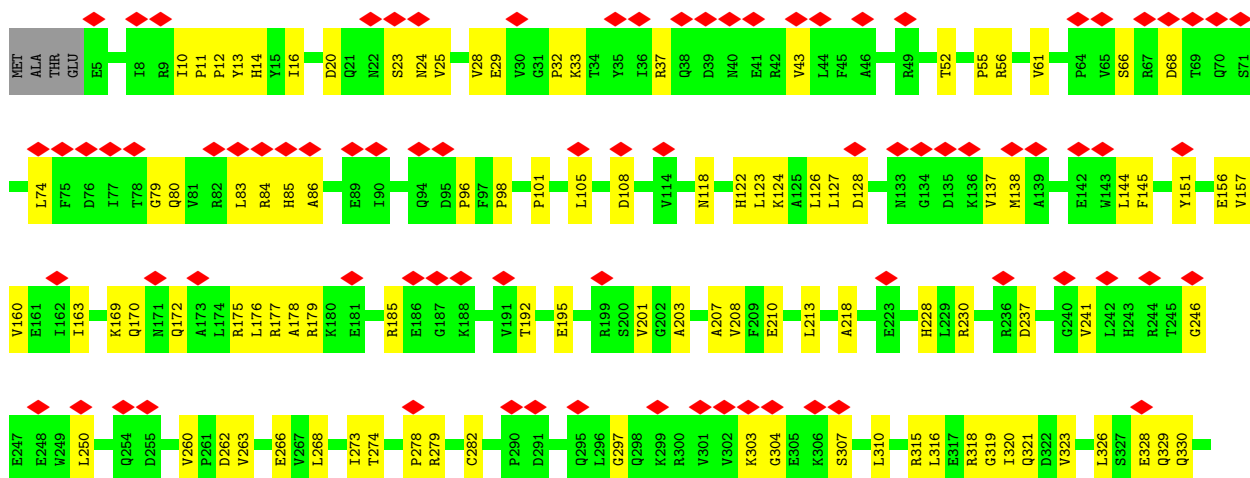


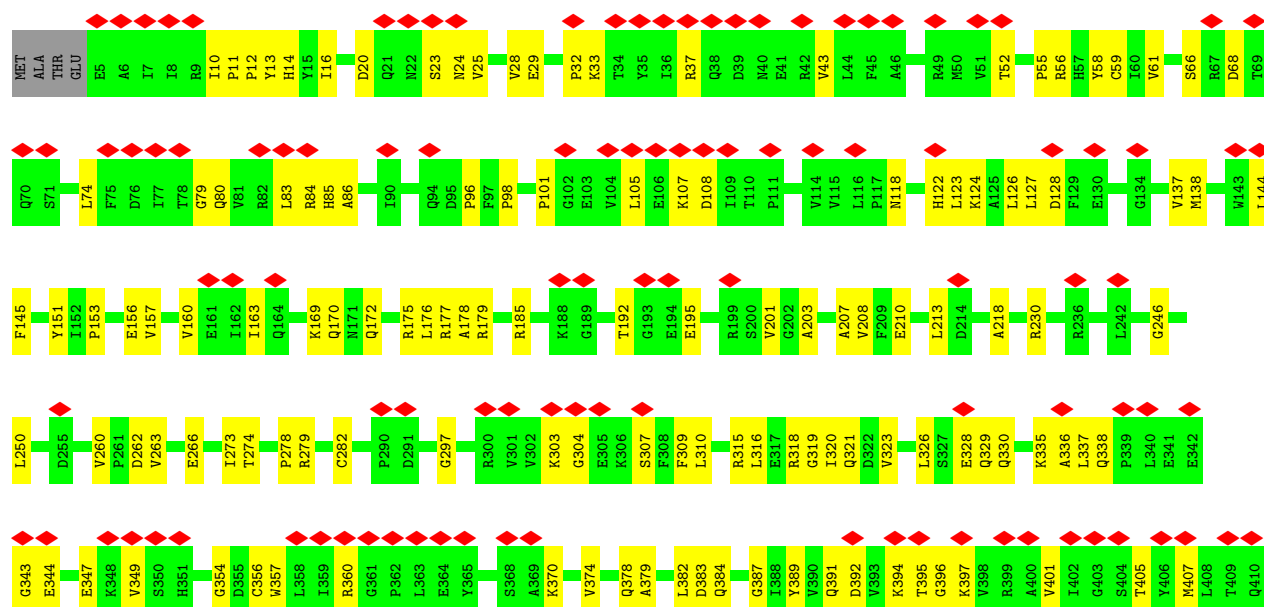
• Molecule 1: Major vault protein

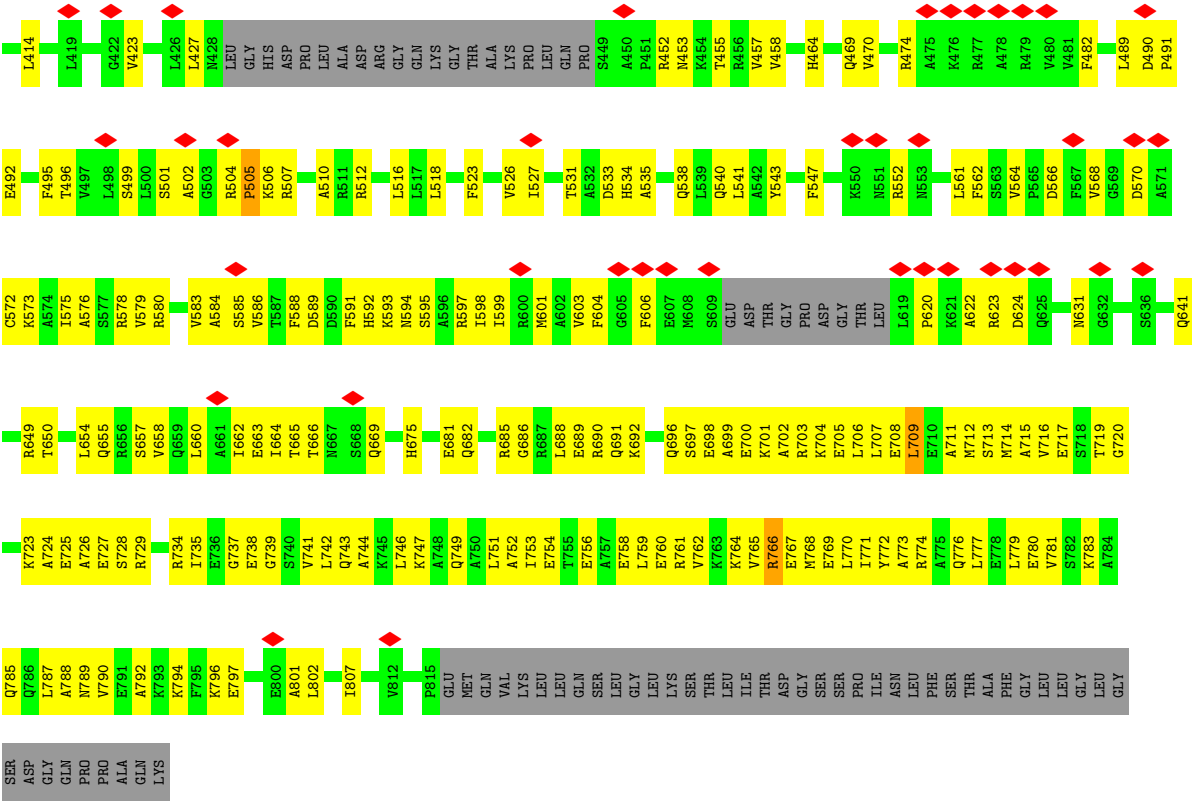




• Molecule 1: Major vault protein







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	7539	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 ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.503	Depositor
Minimum map value	-0.163	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.026	Depositor
Recommended contour level	0.08	Depositor
Map size (Å)	676.0, 676.0, 676.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	3.38, 3.38, 3.38	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.19	0/6262	0.53	3/8484 (0.0%)
1	B	0.19	0/6262	0.53	3/8484 (0.0%)
1	C	0.19	0/6262	0.53	3/8484 (0.0%)
1	D	0.19	0/6262	0.53	3/8484 (0.0%)
1	E	0.19	0/6262	0.53	2/8484 (0.0%)
1	F	0.19	0/6262	0.53	2/8484 (0.0%)
1	G	0.19	0/6262	0.53	3/8484 (0.0%)
1	H	0.19	0/6262	0.53	3/8484 (0.0%)
1	I	0.19	0/6262	0.53	3/8484 (0.0%)
1	J	0.19	0/6262	0.53	3/8484 (0.0%)
1	K	0.19	0/6262	0.53	3/8484 (0.0%)
1	L	0.19	0/6262	0.53	3/8484 (0.0%)
1	M	0.19	0/6262	0.53	2/8484 (0.0%)
1	N	0.19	0/6262	0.53	3/8484 (0.0%)
1	O	0.19	0/6262	0.53	3/8484 (0.0%)
1	P	0.19	0/6262	0.53	3/8484 (0.0%)
1	Q	0.19	0/6262	0.53	3/8484 (0.0%)
1	R	0.19	0/6262	0.53	3/8484 (0.0%)
1	S	0.19	0/6262	0.53	3/8484 (0.0%)
1	T	0.19	0/6262	0.53	3/8484 (0.0%)
1	U	0.19	0/6262	0.53	2/8484 (0.0%)
1	V	0.19	0/6262	0.53	3/8484 (0.0%)
1	W	0.19	0/6262	0.53	3/8484 (0.0%)
1	X	0.19	0/6262	0.53	2/8484 (0.0%)
1	Y	0.19	0/6262	0.53	3/8484 (0.0%)
1	Z	0.19	0/6262	0.53	2/8484 (0.0%)
1	a	0.19	0/6262	0.53	3/8484 (0.0%)
1	b	0.19	0/6262	0.53	3/8484 (0.0%)
1	c	0.19	0/6262	0.53	2/8484 (0.0%)
1	d	0.19	0/6262	0.53	3/8484 (0.0%)
1	e	0.19	0/6262	0.53	3/8484 (0.0%)
1	f	0.19	0/6262	0.53	3/8484 (0.0%)
1	g	0.19	0/6262	0.53	2/8484 (0.0%)
1	h	0.19	0/6262	0.53	3/8484 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.19	0/6262	0.53	3/8484 (0.0%)
1	j	0.19	0/6262	0.53	3/8484 (0.0%)
1	k	0.19	0/6262	0.53	2/8484 (0.0%)
1	l	0.19	0/6262	0.53	3/8484 (0.0%)
1	m	0.19	0/6262	0.53	3/8484 (0.0%)
All	All	0.19	0/244218	0.53	108/330876 (0.0%)

There are no bond length outliers.

All (108) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	766	ARG	CA-CB-CG	7.45	129.00	114.10
1	W	766	ARG	CA-CB-CG	7.44	128.98	114.10
1	e	766	ARG	CA-CB-CG	7.44	128.98	114.10
1	Y	766	ARG	CA-CB-CG	7.44	128.98	114.10
1	O	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	T	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	k	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	I	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	U	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	X	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	c	766	ARG	CA-CB-CG	7.43	128.97	114.10
1	g	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	f	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	J	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	h	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	B	766	ARG	CA-CB-CG	7.43	128.95	114.10
1	Q	766	ARG	CA-CB-CG	7.43	128.95	114.10
1	b	766	ARG	CA-CB-CG	7.43	128.95	114.10
1	l	766	ARG	CA-CB-CG	7.43	128.96	114.10
1	K	766	ARG	CA-CB-CG	7.42	128.95	114.10
1	N	766	ARG	CA-CB-CG	7.42	128.95	114.10
1	a	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	E	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	F	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	L	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	M	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	V	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	R	766	ARG	CA-CB-CG	7.42	128.94	114.10
1	A	766	ARG	CA-CB-CG	7.42	128.93	114.10
1	i	766	ARG	CA-CB-CG	7.42	128.93	114.10
1	C	766	ARG	CA-CB-CG	7.42	128.93	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	766	ARG	CA-CB-CG	7.42	128.93	114.10
1	G	766	ARG	CA-CB-CG	7.41	128.93	114.10
1	S	766	ARG	CA-CB-CG	7.41	128.93	114.10
1	d	766	ARG	CA-CB-CG	7.41	128.93	114.10
1	H	766	ARG	CA-CB-CG	7.41	128.92	114.10
1	P	766	ARG	CA-CB-CG	7.41	128.92	114.10
1	j	766	ARG	CA-CB-CG	7.41	128.91	114.10
1	D	766	ARG	CA-CB-CG	7.40	128.91	114.10
1	D	709	LEU	CA-CB-CG	5.13	134.26	116.30
1	L	709	LEU	CA-CB-CG	5.13	134.26	116.30
1	H	709	LEU	CA-CB-CG	5.13	134.25	116.30
1	X	709	LEU	CA-CB-CG	5.13	134.25	116.30
1	i	709	LEU	CA-CB-CG	5.13	134.25	116.30
1	F	709	LEU	CA-CB-CG	5.13	134.24	116.30
1	O	709	LEU	CA-CB-CG	5.13	134.24	116.30
1	V	709	LEU	CA-CB-CG	5.13	134.25	116.30
1	d	709	LEU	CA-CB-CG	5.13	134.24	116.30
1	f	709	LEU	CA-CB-CG	5.13	134.24	116.30
1	g	709	LEU	CA-CB-CG	5.13	134.24	116.30
1	M	709	LEU	CA-CB-CG	5.12	134.24	116.30
1	S	709	LEU	CA-CB-CG	5.12	134.24	116.30
1	Y	709	LEU	CA-CB-CG	5.12	134.24	116.30
1	j	709	LEU	CA-CB-CG	5.12	134.24	116.30
1	A	709	LEU	CA-CB-CG	5.12	134.23	116.30
1	G	709	LEU	CA-CB-CG	5.12	134.23	116.30
1	Z	709	LEU	CA-CB-CG	5.12	134.24	116.30
1	k	709	LEU	CA-CB-CG	5.12	134.23	116.30
1	Q	709	LEU	CA-CB-CG	5.12	134.22	116.30
1	R	709	LEU	CA-CB-CG	5.12	134.22	116.30
1	W	709	LEU	CA-CB-CG	5.12	134.23	116.30
1	a	709	LEU	CA-CB-CG	5.12	134.23	116.30
1	E	709	LEU	CA-CB-CG	5.12	134.22	116.30
1	P	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	T	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	m	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	h	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	C	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	K	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	c	709	LEU	CA-CB-CG	5.12	134.21	116.30
1	I	709	LEU	CA-CB-CG	5.11	134.19	116.30
1	J	709	LEU	CA-CB-CG	5.11	134.19	116.30
1	N	709	LEU	CA-CB-CG	5.11	134.19	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	709	LEU	CA-CB-CG	5.11	134.19	116.30
1	U	709	LEU	CA-CB-CG	5.11	134.18	116.30
1	e	709	LEU	CA-CB-CG	5.11	134.18	116.30
1	B	709	LEU	CA-CB-CG	5.11	134.18	116.30
1	l	709	LEU	CA-CB-CG	5.11	134.17	116.30
1	m	766	ARG	CB-CA-C	5.03	120.51	109.99
1	W	766	ARG	CB-CA-C	5.03	120.50	109.99
1	C	766	ARG	CB-CA-C	5.03	120.50	109.99
1	a	766	ARG	CB-CA-C	5.03	120.50	109.99
1	V	766	ARG	CB-CA-C	5.03	120.49	109.99
1	G	766	ARG	CB-CA-C	5.02	120.49	109.99
1	b	766	ARG	CB-CA-C	5.02	120.48	109.99
1	H	766	ARG	CB-CA-C	5.02	120.48	109.99
1	S	766	ARG	CB-CA-C	5.02	120.48	109.99
1	Y	766	ARG	CB-CA-C	5.02	120.48	109.99
1	h	766	ARG	CB-CA-C	5.02	120.47	109.99
1	I	766	ARG	CB-CA-C	5.01	120.47	109.99
1	l	766	ARG	CB-CA-C	5.01	120.47	109.99
1	N	766	ARG	CB-CA-C	5.01	120.46	109.99
1	d	766	ARG	CB-CA-C	5.01	120.47	109.99
1	e	766	ARG	CB-CA-C	5.01	120.47	109.99
1	A	766	ARG	CB-CA-C	5.01	120.46	109.99
1	L	766	ARG	CB-CA-C	5.01	120.46	109.99
1	Q	766	ARG	CB-CA-C	5.01	120.46	109.99
1	f	766	ARG	CB-CA-C	5.01	120.46	109.99
1	K	766	ARG	CB-CA-C	5.01	120.46	109.99
1	T	766	ARG	CB-CA-C	5.01	120.46	109.99
1	P	766	ARG	CB-CA-C	5.01	120.45	109.99
1	R	766	ARG	CB-CA-C	5.01	120.45	109.99
1	B	766	ARG	CB-CA-C	5.00	120.45	109.99
1	j	766	ARG	CB-CA-C	5.00	120.45	109.99
1	D	766	ARG	CB-CA-C	5.00	120.45	109.99
1	O	766	ARG	CB-CA-C	5.00	120.45	109.99
1	i	766	ARG	CB-CA-C	5.00	120.45	109.99
1	J	766	ARG	CB-CA-C	5.00	120.44	109.99

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6157	0	6183	357	0
1	B	6157	0	6183	361	0
1	C	6157	0	6183	360	0
1	D	6157	0	6183	357	0
1	E	6157	0	6183	365	0
1	F	6157	0	6183	360	0
1	G	6157	0	6183	365	0
1	H	6157	0	6183	367	0
1	I	6157	0	6183	356	0
1	J	6157	0	6183	356	0
1	K	6157	0	6183	357	0
1	L	6157	0	6183	360	0
1	M	6157	0	6183	362	0
1	N	6157	0	6183	356	0
1	O	6157	0	6183	353	0
1	P	6157	0	6183	355	0
1	Q	6157	0	6183	358	0
1	R	6157	0	6183	362	0
1	S	6157	0	6183	364	0
1	T	6157	0	6183	356	0
1	U	6157	0	6183	363	0
1	V	6157	0	6183	362	0
1	W	6157	0	6183	355	0
1	X	6157	0	6183	358	0
1	Y	6157	0	6183	362	0
1	Z	6157	0	6183	360	0
1	a	6157	0	6183	360	0
1	b	6157	0	6183	355	0
1	c	6157	0	6183	354	0
1	d	6157	0	6183	361	0
1	e	6157	0	6183	358	0
1	f	6157	0	6183	361	0
1	g	6157	0	6183	356	0
1	h	6157	0	6183	358	0
1	i	6157	0	6183	361	0
1	j	6157	0	6183	357	0
1	k	6157	0	6183	359	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	l	6157	0	6183	365	0
1	m	6157	0	6183	356	0
All	All	240123	0	241137	10754	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 22.

All (10754) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:735:ILE:HD11	1:b:723:LYS:HD3	1.43	1.00
1:i:735:ILE:HD11	1:j:723:LYS:HD3	1.43	1.00
1:U:735:ILE:HD11	1:V:723:LYS:HD3	1.43	1.00
1:A:723:LYS:HD3	1:m:735:ILE:HD11	1.43	1.00
1:I:735:ILE:HD11	1:J:723:LYS:HD3	1.43	1.00
1:N:735:ILE:HD11	1:O:723:LYS:HD3	1.43	1.00
1:Y:735:ILE:HD11	1:Z:723:LYS:HD3	1.43	1.00
1:f:735:ILE:HD11	1:g:723:LYS:HD3	1.43	1.00
1:V:735:ILE:HD11	1:W:723:LYS:HD3	1.43	1.00
1:F:735:ILE:HD11	1:G:723:LYS:HD3	1.43	1.00
1:G:735:ILE:HD11	1:H:723:LYS:HD3	1.43	1.00
1:R:735:ILE:HD11	1:S:723:LYS:HD3	1.43	0.99
1:O:735:ILE:HD11	1:P:723:LYS:HD3	1.43	0.99
1:D:735:ILE:HD11	1:E:723:LYS:HD3	1.43	0.99
1:e:735:ILE:HD11	1:f:723:LYS:HD3	1.43	0.99
1:A:735:ILE:HD11	1:B:723:LYS:HD3	1.43	0.99
1:c:735:ILE:HD11	1:d:723:LYS:HD3	1.43	0.99
1:H:735:ILE:HD11	1:I:723:LYS:HD3	1.43	0.99
1:l:735:ILE:HD11	1:m:723:LYS:HD3	1.43	0.99
1:S:735:ILE:HD11	1:T:723:LYS:HD3	1.43	0.99
1:b:735:ILE:HD11	1:c:723:LYS:HD3	1.43	0.99
1:M:735:ILE:HD11	1:N:723:LYS:HD3	1.43	0.98
1:Q:735:ILE:HD11	1:R:723:LYS:HD3	1.43	0.98
1:K:735:ILE:HD11	1:L:723:LYS:HD3	1.43	0.98
1:T:735:ILE:HD11	1:U:723:LYS:HD3	1.43	0.98
1:g:735:ILE:HD11	1:h:723:LYS:HD3	1.43	0.98
1:E:735:ILE:HD11	1:F:723:LYS:HD3	1.43	0.98
1:Z:735:ILE:HD11	1:a:723:LYS:HD3	1.43	0.98
1:j:735:ILE:HD11	1:k:723:LYS:HD3	1.43	0.98
1:B:735:ILE:HD11	1:C:723:LYS:HD3	1.43	0.97
1:W:735:ILE:HD11	1:X:723:LYS:HD3	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:735:ILE:HD11	1:Q:723:LYS:HD3	1.43	0.97
1:k:735:ILE:HD11	1:l:723:LYS:HD3	1.43	0.97
1:L:735:ILE:HD11	1:M:723:LYS:HD3	1.43	0.97
1:J:735:ILE:HD11	1:K:723:LYS:HD3	1.43	0.96
1:h:735:ILE:HD11	1:i:723:LYS:HD3	1.43	0.96
1:X:735:ILE:HD11	1:Y:723:LYS:HD3	1.43	0.96
1:d:735:ILE:HD11	1:e:723:LYS:HD3	1.43	0.96
1:C:735:ILE:HD11	1:D:723:LYS:HD3	1.43	0.95
1:j:749:GLN:HE22	1:k:741:VAL:HG22	1.35	0.92
1:S:749:GLN:HE22	1:T:741:VAL:HG22	1.35	0.91
1:N:749:GLN:HE22	1:O:741:VAL:HG22	1.35	0.91
1:g:749:GLN:HE22	1:h:741:VAL:HG22	1.35	0.91
1:D:749:GLN:HE22	1:E:741:VAL:HG22	1.35	0.91
1:R:749:GLN:HE22	1:S:741:VAL:HG22	1.36	0.91
1:d:749:GLN:HE22	1:e:741:VAL:HG22	1.35	0.91
1:B:749:GLN:HE22	1:C:741:VAL:HG22	1.35	0.91
1:M:749:GLN:HE22	1:N:741:VAL:HG22	1.35	0.91
1:E:749:GLN:HE22	1:F:741:VAL:HG22	1.35	0.91
1:K:749:GLN:HE22	1:L:741:VAL:HG22	1.35	0.91
1:A:741:VAL:HG22	1:m:749:GLN:HE22	1.35	0.91
1:V:749:GLN:HE22	1:W:741:VAL:HG22	1.35	0.91
1:U:749:GLN:HE22	1:V:741:VAL:HG22	1.36	0.91
1:b:749:GLN:HE22	1:c:741:VAL:HG22	1.35	0.91
1:i:749:GLN:HE22	1:j:741:VAL:HG22	1.35	0.91
1:l:749:GLN:HE22	1:m:741:VAL:HG22	1.35	0.91
1:C:749:GLN:HE22	1:D:741:VAL:HG22	1.35	0.90
1:Z:749:GLN:HE22	1:a:741:VAL:HG22	1.35	0.90
1:F:749:GLN:HE22	1:G:741:VAL:HG22	1.35	0.90
1:J:749:GLN:HE22	1:K:741:VAL:HG22	1.35	0.90
1:c:749:GLN:HE22	1:d:741:VAL:HG22	1.35	0.90
1:P:749:GLN:HE22	1:Q:741:VAL:HG22	1.35	0.90
1:f:749:GLN:HE22	1:g:741:VAL:HG22	1.35	0.90
1:h:749:GLN:HE22	1:i:741:VAL:HG22	1.35	0.90
1:H:749:GLN:HE22	1:I:741:VAL:HG22	1.35	0.89
1:k:749:GLN:HE22	1:l:741:VAL:HG22	1.35	0.89
1:Y:749:GLN:HE22	1:Z:741:VAL:HG22	1.35	0.89
1:e:749:GLN:HE22	1:f:741:VAL:HG22	1.35	0.89
1:G:749:GLN:HE22	1:H:741:VAL:HG22	1.35	0.89
1:I:749:GLN:HE22	1:J:741:VAL:HG22	1.36	0.89
1:X:749:GLN:HE22	1:Y:741:VAL:HG22	1.35	0.89
1:a:749:GLN:HE22	1:b:741:VAL:HG22	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:749:GLN:HE22	1:P:741:VAL:HG22	1.35	0.89
1:T:749:GLN:HE22	1:U:741:VAL:HG22	1.35	0.89
1:W:749:GLN:HE22	1:X:741:VAL:HG22	1.35	0.88
1:Q:749:GLN:HE22	1:R:741:VAL:HG22	1.36	0.88
1:A:749:GLN:HE22	1:B:741:VAL:HG22	1.35	0.88
1:L:749:GLN:HE22	1:M:741:VAL:HG22	1.35	0.87
1:Y:55:PRO:HD3	1:Z:86:ALA:HB1	1.59	0.85
1:A:86:ALA:HB1	1:m:55:PRO:HD3	1.59	0.85
1:D:55:PRO:HD3	1:E:86:ALA:HB1	1.59	0.85
1:T:55:PRO:HD3	1:U:86:ALA:HB1	1.59	0.85
1:c:55:PRO:HD3	1:d:86:ALA:HB1	1.59	0.85
1:h:55:PRO:HD3	1:i:86:ALA:HB1	1.59	0.85
1:j:55:PRO:HD3	1:k:86:ALA:HB1	1.59	0.85
1:f:55:PRO:HD3	1:g:86:ALA:HB1	1.59	0.85
1:I:55:PRO:HD3	1:J:86:ALA:HB1	1.59	0.85
1:G:55:PRO:HD3	1:H:86:ALA:HB1	1.59	0.85
1:C:55:PRO:HD3	1:D:86:ALA:HB1	1.59	0.85
1:Z:720:GLY:HA3	1:a:711:ALA:HB1	1.59	0.84
1:g:720:GLY:HA3	1:h:711:ALA:HB1	1.59	0.84
1:h:720:GLY:HA3	1:i:711:ALA:HB1	1.59	0.84
1:b:55:PRO:HD3	1:c:86:ALA:HB1	1.59	0.84
1:e:55:PRO:HD3	1:f:86:ALA:HB1	1.59	0.84
1:A:55:PRO:HD3	1:B:86:ALA:HB1	1.59	0.84
1:J:720:GLY:HA3	1:K:711:ALA:HB1	1.59	0.84
1:M:720:GLY:HA3	1:N:711:ALA:HB1	1.59	0.84
1:U:55:PRO:HD3	1:V:86:ALA:HB1	1.59	0.84
1:E:720:GLY:HA3	1:F:711:ALA:HB1	1.59	0.84
1:P:720:GLY:HA3	1:Q:711:ALA:HB1	1.59	0.84
1:R:720:GLY:HA3	1:S:711:ALA:HB1	1.59	0.84
1:U:720:GLY:HA3	1:V:711:ALA:HB1	1.59	0.84
1:Z:55:PRO:HD3	1:a:86:ALA:HB1	1.59	0.84
1:d:720:GLY:HA3	1:e:711:ALA:HB1	1.59	0.84
1:Y:720:GLY:HA3	1:Z:711:ALA:HB1	1.59	0.84
1:F:720:GLY:HA3	1:G:711:ALA:HB1	1.59	0.84
1:W:720:GLY:HA3	1:X:711:ALA:HB1	1.59	0.84
1:X:55:PRO:HD3	1:Y:86:ALA:HB1	1.59	0.84
1:i:720:GLY:HA3	1:j:711:ALA:HB1	1.59	0.84
1:O:55:PRO:HD3	1:P:86:ALA:HB1	1.59	0.84
1:V:55:PRO:HD3	1:W:86:ALA:HB1	1.59	0.84
1:Z:531:THR:OG1	1:Z:583:VAL:O	1.96	0.84
1:f:531:THR:OG1	1:f:583:VAL:O	1.96	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:720:GLY:HA3	1:g:711:ALA:HB1	1.59	0.84
1:k:55:PRO:HD3	1:l:86:ALA:HB1	1.59	0.84
1:l:531:THR:OG1	1:l:583:VAL:O	1.96	0.84
1:D:531:THR:OG1	1:D:583:VAL:O	1.96	0.83
1:D:720:GLY:HA3	1:E:711:ALA:HB1	1.59	0.83
1:c:720:GLY:HA3	1:d:711:ALA:HB1	1.59	0.83
1:N:55:PRO:HD3	1:O:86:ALA:HB1	1.59	0.83
1:P:55:PRO:HD3	1:Q:86:ALA:HB1	1.59	0.83
1:T:531:THR:OG1	1:T:583:VAL:O	1.96	0.83
1:e:531:THR:OG1	1:e:583:VAL:O	1.96	0.83
1:g:531:THR:OG1	1:g:583:VAL:O	1.96	0.83
1:F:55:PRO:HD3	1:G:86:ALA:HB1	1.59	0.83
1:I:720:GLY:HA3	1:J:711:ALA:HB1	1.59	0.83
1:L:720:GLY:HA3	1:M:711:ALA:HB1	1.59	0.83
1:N:720:GLY:HA3	1:O:711:ALA:HB1	1.59	0.83
1:g:55:PRO:HD3	1:h:86:ALA:HB1	1.59	0.83
1:M:55:PRO:HD3	1:N:86:ALA:HB1	1.59	0.83
1:k:531:THR:OG1	1:k:583:VAL:O	1.96	0.83
1:A:531:THR:OG1	1:A:583:VAL:O	1.96	0.83
1:E:55:PRO:HD3	1:F:86:ALA:HB1	1.59	0.83
1:P:531:THR:OG1	1:P:583:VAL:O	1.96	0.83
1:Y:531:THR:OG1	1:Y:583:VAL:O	1.96	0.83
1:a:720:GLY:HA3	1:b:711:ALA:HB1	1.59	0.83
1:d:531:THR:HA	1:d:584:ALA:HA	1.61	0.83
1:C:720:GLY:HA3	1:D:711:ALA:HB1	1.59	0.83
1:E:531:THR:OG1	1:E:583:VAL:O	1.96	0.83
1:J:55:PRO:HD3	1:K:86:ALA:HB1	1.59	0.83
1:O:531:THR:OG1	1:O:583:VAL:O	1.96	0.83
1:T:720:GLY:HA3	1:U:711:ALA:HB1	1.59	0.83
1:U:531:THR:OG1	1:U:583:VAL:O	1.96	0.83
1:V:720:GLY:HA3	1:W:711:ALA:HB1	1.59	0.83
1:Z:531:THR:HA	1:Z:584:ALA:HA	1.61	0.83
1:b:720:GLY:HA3	1:c:711:ALA:HB1	1.59	0.83
1:j:720:GLY:HA3	1:k:711:ALA:HB1	1.59	0.83
1:B:55:PRO:HD3	1:C:86:ALA:HB1	1.59	0.83
1:H:55:PRO:HD3	1:I:86:ALA:HB1	1.59	0.83
1:L:55:PRO:HD3	1:M:86:ALA:HB1	1.59	0.83
1:G:720:GLY:HA3	1:H:711:ALA:HB1	1.59	0.83
1:H:531:THR:HA	1:H:584:ALA:HA	1.61	0.83
1:M:531:THR:HA	1:M:584:ALA:HA	1.61	0.83
1:Q:55:PRO:HD3	1:R:86:ALA:HB1	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:720:GLY:HA3	1:T:711:ALA:HB1	1.59	0.83
1:W:55:PRO:HD3	1:X:86:ALA:HB1	1.59	0.83
1:W:531:THR:HA	1:W:584:ALA:HA	1.61	0.83
1:A:531:THR:HA	1:A:584:ALA:HA	1.61	0.83
1:I:531:THR:HA	1:I:584:ALA:HA	1.61	0.83
1:I:531:THR:OG1	1:I:583:VAL:O	1.96	0.83
1:Q:720:GLY:HA3	1:R:711:ALA:HB1	1.59	0.83
1:i:55:PRO:HD3	1:j:86:ALA:HB1	1.59	0.83
1:m:531:THR:HA	1:m:584:ALA:HA	1.61	0.83
1:G:531:THR:OG1	1:G:583:VAL:O	1.96	0.83
1:Q:531:THR:HA	1:Q:584:ALA:HA	1.61	0.83
1:R:531:THR:HA	1:R:584:ALA:HA	1.61	0.83
1:V:531:THR:HA	1:V:584:ALA:HA	1.61	0.83
1:d:531:THR:OG1	1:d:583:VAL:O	1.96	0.83
1:D:531:THR:HA	1:D:584:ALA:HA	1.61	0.82
1:J:531:THR:OG1	1:J:583:VAL:O	1.96	0.82
1:R:55:PRO:HD3	1:S:86:ALA:HB1	1.59	0.82
1:W:531:THR:OG1	1:W:583:VAL:O	1.96	0.82
1:X:531:THR:OG1	1:X:583:VAL:O	1.96	0.82
1:a:531:THR:OG1	1:a:583:VAL:O	1.96	0.82
1:h:531:THR:OG1	1:h:583:VAL:O	1.96	0.82
1:l:55:PRO:HD3	1:m:86:ALA:HB1	1.59	0.82
1:B:531:THR:HA	1:B:584:ALA:HA	1.61	0.82
1:B:531:THR:OG1	1:B:583:VAL:O	1.96	0.82
1:N:531:THR:OG1	1:N:583:VAL:O	1.96	0.82
1:c:531:THR:HA	1:c:584:ALA:HA	1.61	0.82
1:e:531:THR:HA	1:e:584:ALA:HA	1.61	0.82
1:E:531:THR:HA	1:E:584:ALA:HA	1.61	0.82
1:K:55:PRO:HD3	1:L:86:ALA:HB1	1.59	0.82
1:N:531:THR:HA	1:N:584:ALA:HA	1.61	0.82
1:S:55:PRO:HD3	1:T:86:ALA:HB1	1.59	0.82
1:Q:531:THR:OG1	1:Q:583:VAL:O	1.96	0.82
1:R:698:GLU:O	1:S:690:ARG:NH1	2.13	0.82
1:m:531:THR:OG1	1:m:583:VAL:O	1.96	0.82
1:B:720:GLY:HA3	1:C:711:ALA:HB1	1.59	0.82
1:H:531:THR:OG1	1:H:583:VAL:O	1.96	0.82
1:T:531:THR:HA	1:T:584:ALA:HA	1.61	0.82
1:V:531:THR:OG1	1:V:583:VAL:O	1.96	0.82
1:c:698:GLU:O	1:d:690:ARG:NH1	2.13	0.82
1:g:698:GLU:O	1:h:690:ARG:NH1	2.13	0.82
1:A:698:GLU:O	1:B:690:ARG:NH1	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:ALA:HB1	1:m:720:GLY:HA3	1.59	0.82
1:F:698:GLU:O	1:G:690:ARG:NH1	2.13	0.82
1:K:531:THR:OG1	1:K:583:VAL:O	1.96	0.82
1:K:531:THR:HA	1:K:584:ALA:HA	1.61	0.82
1:L:531:THR:OG1	1:L:583:VAL:O	1.96	0.82
1:L:698:GLU:O	1:M:690:ARG:NH1	2.13	0.82
1:N:698:GLU:O	1:O:690:ARG:NH1	2.13	0.82
1:a:55:PRO:HD3	1:b:86:ALA:HB1	1.59	0.82
1:k:720:GLY:HA3	1:l:711:ALA:HB1	1.59	0.82
1:l:531:THR:HA	1:l:584:ALA:HA	1.61	0.82
1:B:698:GLU:O	1:C:690:ARG:NH1	2.13	0.82
1:J:698:GLU:O	1:K:690:ARG:NH1	2.13	0.82
1:M:531:THR:OG1	1:M:583:VAL:O	1.96	0.82
1:d:55:PRO:HD3	1:e:86:ALA:HB1	1.59	0.82
1:h:698:GLU:O	1:i:690:ARG:NH1	2.13	0.82
1:H:698:GLU:O	1:I:690:ARG:NH1	2.13	0.82
1:I:698:GLU:O	1:J:690:ARG:NH1	2.13	0.82
1:Q:698:GLU:O	1:R:690:ARG:NH1	2.13	0.82
1:R:531:THR:OG1	1:R:583:VAL:O	1.96	0.82
1:A:720:GLY:HA3	1:B:711:ALA:HB1	1.59	0.82
1:E:698:GLU:O	1:F:690:ARG:NH1	2.13	0.82
1:H:720:GLY:HA3	1:I:711:ALA:HB1	1.59	0.82
1:K:698:GLU:O	1:L:690:ARG:NH1	2.13	0.82
1:S:698:GLU:O	1:T:690:ARG:NH1	2.13	0.82
1:W:698:GLU:O	1:X:690:ARG:NH1	2.13	0.82
1:X:698:GLU:O	1:Y:690:ARG:NH1	2.13	0.82
1:Z:698:GLU:O	1:a:690:ARG:NH1	2.13	0.82
1:f:698:GLU:O	1:g:690:ARG:NH1	2.13	0.82
1:l:720:GLY:HA3	1:m:711:ALA:HB1	1.59	0.82
1:K:720:GLY:HA3	1:L:711:ALA:HB1	1.59	0.82
1:M:698:GLU:O	1:N:690:ARG:NH1	2.13	0.82
1:S:531:THR:OG1	1:S:583:VAL:O	1.96	0.82
1:U:698:GLU:O	1:V:690:ARG:NH1	2.13	0.82
1:X:720:GLY:HA3	1:Y:711:ALA:HB1	1.59	0.82
1:e:720:GLY:HA3	1:f:711:ALA:HB1	1.59	0.82
1:C:531:THR:OG1	1:C:583:VAL:O	1.96	0.81
1:C:698:GLU:O	1:D:690:ARG:NH1	2.13	0.81
1:f:531:THR:HA	1:f:584:ALA:HA	1.61	0.81
1:i:698:GLU:O	1:j:690:ARG:NH1	2.13	0.81
1:D:698:GLU:O	1:E:690:ARG:NH1	2.13	0.81
1:G:698:GLU:O	1:H:690:ARG:NH1	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:720:GLY:HA3	1:P:711:ALA:HB1	1.60	0.81
1:l:698:GLU:O	1:m:690:ARG:NH1	2.13	0.81
1:A:690:ARG:NH1	1:m:698:GLU:O	2.13	0.81
1:F:531:THR:OG1	1:F:583:VAL:O	1.96	0.81
1:V:698:GLU:O	1:W:690:ARG:NH1	2.13	0.81
1:a:531:THR:HA	1:a:584:ALA:HA	1.61	0.81
1:d:698:GLU:O	1:e:690:ARG:NH1	2.13	0.81
1:j:531:THR:OG1	1:j:583:VAL:O	1.96	0.81
1:k:698:GLU:O	1:l:690:ARG:NH1	2.13	0.81
1:G:531:THR:HA	1:G:584:ALA:HA	1.61	0.81
1:O:698:GLU:O	1:P:690:ARG:NH1	2.13	0.81
1:a:698:GLU:O	1:b:690:ARG:NH1	2.13	0.81
1:b:698:GLU:O	1:c:690:ARG:NH1	2.13	0.81
1:c:531:THR:OG1	1:c:583:VAL:O	1.96	0.81
1:L:531:THR:HA	1:L:584:ALA:HA	1.61	0.81
1:P:531:THR:HA	1:P:584:ALA:HA	1.61	0.81
1:X:531:THR:HA	1:X:584:ALA:HA	1.61	0.81
1:Y:698:GLU:O	1:Z:690:ARG:NH1	2.13	0.81
1:g:531:THR:HA	1:g:584:ALA:HA	1.61	0.81
1:S:531:THR:HA	1:S:584:ALA:HA	1.61	0.81
1:b:531:THR:OG1	1:b:583:VAL:O	1.96	0.81
1:j:698:GLU:O	1:k:690:ARG:NH1	2.13	0.81
1:P:698:GLU:O	1:Q:690:ARG:NH1	2.13	0.81
1:i:531:THR:OG1	1:i:583:VAL:O	1.96	0.81
1:b:531:THR:HA	1:b:584:ALA:HA	1.61	0.81
1:i:531:THR:HA	1:i:584:ALA:HA	1.61	0.81
1:k:531:THR:HA	1:k:584:ALA:HA	1.61	0.81
1:C:531:THR:HA	1:C:584:ALA:HA	1.61	0.81
1:F:531:THR:HA	1:F:584:ALA:HA	1.61	0.81
1:T:698:GLU:O	1:U:690:ARG:NH1	2.13	0.81
1:U:531:THR:HA	1:U:584:ALA:HA	1.61	0.81
1:O:531:THR:HA	1:O:584:ALA:HA	1.61	0.80
1:J:531:THR:HA	1:J:584:ALA:HA	1.61	0.80
1:e:698:GLU:O	1:f:690:ARG:NH1	2.13	0.80
1:j:531:THR:HA	1:j:584:ALA:HA	1.61	0.80
1:Y:531:THR:HA	1:Y:584:ALA:HA	1.61	0.80
1:h:531:THR:HA	1:h:584:ALA:HA	1.61	0.80
1:W:318:ARG:HB2	1:W:321:GLN:HE21	1.48	0.80
1:j:318:ARG:HB2	1:j:321:GLN:HE21	1.47	0.80
1:c:318:ARG:HB2	1:c:321:GLN:HE21	1.47	0.79
1:J:318:ARG:HB2	1:J:321:GLN:HE21	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:318:ARG:HB2	1:d:321:GLN:HE21	1.47	0.79
1:h:318:ARG:HB2	1:h:321:GLN:HE21	1.47	0.79
1:S:318:ARG:HB2	1:S:321:GLN:HE21	1.47	0.79
1:Y:318:ARG:HB2	1:Y:321:GLN:HE21	1.47	0.79
1:Y:770:LEU:HB2	1:Y:774:ARG:HH12	1.48	0.79
1:h:770:LEU:HB2	1:h:774:ARG:HH12	1.48	0.79
1:C:318:ARG:HB2	1:C:321:GLN:HE21	1.47	0.79
1:M:531:THR:OG1	1:M:586:VAL:O	2.01	0.79
1:Q:770:LEU:HB2	1:Q:774:ARG:HH12	1.48	0.79
1:R:770:LEU:HB2	1:R:774:ARG:HH12	1.48	0.79
1:m:318:ARG:HB2	1:m:321:GLN:HE21	1.47	0.79
1:B:770:LEU:HB2	1:B:774:ARG:HH12	1.48	0.79
1:I:770:LEU:HB2	1:I:774:ARG:HH12	1.48	0.79
1:N:531:THR:OG1	1:N:586:VAL:O	2.01	0.79
1:T:318:ARG:HB2	1:T:321:GLN:HE21	1.47	0.79
1:d:531:THR:OG1	1:d:586:VAL:O	2.01	0.79
1:h:531:THR:OG1	1:h:586:VAL:O	2.01	0.79
1:k:531:THR:OG1	1:k:586:VAL:O	2.01	0.79
1:E:531:THR:OG1	1:E:586:VAL:O	2.01	0.79
1:L:531:THR:OG1	1:L:586:VAL:O	2.01	0.79
1:O:531:THR:OG1	1:O:586:VAL:O	2.01	0.79
1:T:531:THR:OG1	1:T:586:VAL:O	2.01	0.79
1:Z:770:LEU:HB2	1:Z:774:ARG:HH12	1.48	0.79
1:a:531:THR:OG1	1:a:586:VAL:O	2.01	0.79
1:k:770:LEU:HB2	1:k:774:ARG:HH12	1.48	0.79
1:C:770:LEU:HB2	1:C:774:ARG:HH12	1.48	0.79
1:K:531:THR:OG1	1:K:586:VAL:O	2.01	0.79
1:U:531:THR:OG1	1:U:586:VAL:O	2.01	0.79
1:X:770:LEU:HB2	1:X:774:ARG:HH12	1.48	0.79
1:j:770:LEU:HB2	1:j:774:ARG:HH12	1.48	0.79
1:F:770:LEU:HB2	1:F:774:ARG:HH12	1.48	0.79
1:O:318:ARG:HB2	1:O:321:GLN:HE21	1.47	0.79
1:P:531:THR:OG1	1:P:586:VAL:O	2.01	0.79
1:i:318:ARG:HB2	1:i:321:GLN:HE21	1.47	0.79
1:A:12:PRO:HA	1:A:32:PRO:HB3	1.65	0.79
1:G:770:LEU:HB2	1:G:774:ARG:HH12	1.48	0.79
1:N:318:ARG:HB2	1:N:321:GLN:HE21	1.47	0.79
1:P:12:PRO:HA	1:P:32:PRO:HB3	1.65	0.79
1:P:770:LEU:HB2	1:P:774:ARG:HH12	1.48	0.79
1:X:318:ARG:HB2	1:X:321:GLN:HE21	1.47	0.79
1:X:531:THR:OG1	1:X:586:VAL:O	2.01	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:ARG:HB2	1:A:321:GLN:HE21	1.47	0.78
1:A:770:LEU:HB2	1:A:774:ARG:HH12	1.48	0.78
1:E:318:ARG:HB2	1:E:321:GLN:HE21	1.47	0.78
1:I:318:ARG:HB2	1:I:321:GLN:HE21	1.47	0.78
1:I:531:THR:OG1	1:I:586:VAL:O	2.01	0.78
1:Q:318:ARG:HB2	1:Q:321:GLN:HE21	1.47	0.78
1:T:12:PRO:HA	1:T:32:PRO:HB3	1.65	0.78
1:U:770:LEU:HB2	1:U:774:ARG:HH12	1.48	0.78
1:W:12:PRO:HA	1:W:32:PRO:HB3	1.65	0.78
1:g:770:LEU:HB2	1:g:774:ARG:HH12	1.48	0.78
1:D:531:THR:OG1	1:D:586:VAL:O	2.01	0.78
1:J:531:THR:OG1	1:J:586:VAL:O	2.01	0.78
1:O:12:PRO:HA	1:O:32:PRO:HB3	1.66	0.78
1:W:531:THR:OG1	1:W:586:VAL:O	2.01	0.78
1:b:770:LEU:HB2	1:b:774:ARG:HH12	1.48	0.78
1:B:531:THR:OG1	1:B:586:VAL:O	2.01	0.78
1:D:318:ARG:HB2	1:D:321:GLN:HE21	1.47	0.78
1:F:531:THR:OG1	1:F:586:VAL:O	2.01	0.78
1:P:318:ARG:HB2	1:P:321:GLN:HE21	1.47	0.78
1:X:12:PRO:HA	1:X:32:PRO:HB3	1.65	0.78
1:E:12:PRO:HA	1:E:32:PRO:HB3	1.66	0.78
1:F:318:ARG:HB2	1:F:321:GLN:HE21	1.47	0.78
1:H:770:LEU:HB2	1:H:774:ARG:HH12	1.48	0.78
1:J:746:LEU:O	1:J:749:GLN:NE2	2.17	0.78
1:V:770:LEU:HB2	1:V:774:ARG:HH12	1.48	0.78
1:Z:318:ARG:HB2	1:Z:321:GLN:HE21	1.47	0.78
1:f:531:THR:OG1	1:f:586:VAL:O	2.01	0.78
1:j:12:PRO:HA	1:j:32:PRO:HB3	1.66	0.78
1:G:746:LEU:O	1:G:749:GLN:NE2	2.17	0.78
1:H:531:THR:OG1	1:H:586:VAL:O	2.01	0.78
1:M:746:LEU:O	1:M:749:GLN:NE2	2.17	0.78
1:N:12:PRO:HA	1:N:32:PRO:HB3	1.65	0.78
1:V:746:LEU:O	1:V:749:GLN:NE2	2.17	0.78
1:b:531:THR:OG1	1:b:586:VAL:O	2.01	0.78
1:f:12:PRO:HA	1:f:32:PRO:HB3	1.65	0.78
1:f:746:LEU:O	1:f:749:GLN:NE2	2.17	0.78
1:N:746:LEU:O	1:N:749:GLN:NE2	2.17	0.78
1:Q:746:LEU:O	1:Q:749:GLN:NE2	2.17	0.78
1:R:746:LEU:O	1:R:749:GLN:NE2	2.17	0.78
1:i:770:LEU:HB2	1:i:774:ARG:HH12	1.48	0.78
1:l:770:LEU:HB2	1:l:774:ARG:HH12	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:770:LEU:HB2	1:J:774:ARG:HH12	1.48	0.78
1:K:318:ARG:HB2	1:K:321:GLN:HE21	1.47	0.78
1:T:770:LEU:HB2	1:T:774:ARG:HH12	1.48	0.78
1:b:318:ARG:HB2	1:b:321:GLN:HE21	1.48	0.78
1:b:746:LEU:O	1:b:749:GLN:NE2	2.17	0.78
1:c:770:LEU:HB2	1:c:774:ARG:HH12	1.48	0.78
1:h:12:PRO:HA	1:h:32:PRO:HB3	1.65	0.78
1:l:318:ARG:HB2	1:l:321:GLN:HE21	1.47	0.78
1:A:531:THR:OG1	1:A:586:VAL:O	2.01	0.78
1:K:746:LEU:O	1:K:749:GLN:NE2	2.17	0.78
1:Q:12:PRO:HA	1:Q:32:PRO:HB3	1.65	0.78
1:Q:531:THR:OG1	1:Q:586:VAL:O	2.01	0.78
1:U:318:ARG:HB2	1:U:321:GLN:HE21	1.47	0.78
1:U:746:LEU:O	1:U:749:GLN:NE2	2.17	0.78
1:b:12:PRO:HA	1:b:32:PRO:HB3	1.66	0.78
1:e:318:ARG:HB2	1:e:321:GLN:HE21	1.47	0.78
1:i:531:THR:OG1	1:i:586:VAL:O	2.01	0.78
1:j:531:THR:OG1	1:j:586:VAL:O	2.01	0.78
1:F:12:PRO:HA	1:F:32:PRO:HB3	1.66	0.78
1:H:746:LEU:O	1:H:749:GLN:NE2	2.17	0.78
1:L:746:LEU:O	1:L:749:GLN:NE2	2.17	0.78
1:S:531:THR:OG1	1:S:586:VAL:O	2.01	0.78
1:S:746:LEU:O	1:S:749:GLN:NE2	2.17	0.78
1:W:746:LEU:O	1:W:749:GLN:NE2	2.17	0.78
1:Z:12:PRO:HA	1:Z:32:PRO:HB3	1.66	0.78
1:a:12:PRO:HA	1:a:32:PRO:HB3	1.65	0.78
1:a:770:LEU:HB2	1:a:774:ARG:HH12	1.48	0.78
1:f:318:ARG:HB2	1:f:321:GLN:HE21	1.47	0.78
1:k:12:PRO:HA	1:k:32:PRO:HB3	1.66	0.78
1:m:531:THR:OG1	1:m:586:VAL:O	2.01	0.78
1:D:12:PRO:HA	1:D:32:PRO:HB3	1.65	0.78
1:D:770:LEU:HB2	1:D:774:ARG:HH12	1.48	0.78
1:E:770:LEU:HB2	1:E:774:ARG:HH12	1.48	0.78
1:K:770:LEU:HB2	1:K:774:ARG:HH12	1.48	0.78
1:P:746:LEU:O	1:P:749:GLN:NE2	2.17	0.78
1:V:318:ARG:HB2	1:V:321:GLN:HE21	1.47	0.78
1:Y:746:LEU:O	1:Y:749:GLN:NE2	2.17	0.78
1:Z:746:LEU:O	1:Z:749:GLN:NE2	2.17	0.78
1:c:531:THR:OG1	1:c:586:VAL:O	2.01	0.78
1:e:531:THR:OG1	1:e:586:VAL:O	2.01	0.78
1:g:318:ARG:HB2	1:g:321:GLN:HE21	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:746:LEU:O	1:g:749:GLN:NE2	2.17	0.78
1:C:531:THR:OG1	1:C:586:VAL:O	2.01	0.77
1:V:531:THR:OG1	1:V:586:VAL:O	2.01	0.77
1:a:318:ARG:HB2	1:a:321:GLN:HE21	1.47	0.77
1:g:531:THR:OG1	1:g:586:VAL:O	2.01	0.77
1:l:531:THR:OG1	1:l:586:VAL:O	2.01	0.77
1:m:746:LEU:O	1:m:749:GLN:NE2	2.17	0.77
1:C:746:LEU:O	1:C:749:GLN:NE2	2.17	0.77
1:G:12:PRO:HA	1:G:32:PRO:HB3	1.66	0.77
1:I:746:LEU:O	1:I:749:GLN:NE2	2.17	0.77
1:S:770:LEU:HB2	1:S:774:ARG:HH12	1.48	0.77
1:c:746:LEU:O	1:c:749:GLN:NE2	2.17	0.77
1:d:770:LEU:HB2	1:d:774:ARG:HH12	1.48	0.77
1:g:12:PRO:HA	1:g:32:PRO:HB3	1.65	0.77
1:A:746:LEU:O	1:A:749:GLN:NE2	2.17	0.77
1:M:12:PRO:HA	1:M:32:PRO:HB3	1.66	0.77
1:D:746:LEU:O	1:D:749:GLN:NE2	2.17	0.77
1:G:658:VAL:HG21	1:H:535:ALA:HB2	1.67	0.77
1:N:770:LEU:HB2	1:N:774:ARG:HH12	1.48	0.77
1:d:12:PRO:HA	1:d:32:PRO:HB3	1.66	0.77
1:e:746:LEU:O	1:e:749:GLN:NE2	2.17	0.77
1:k:318:ARG:HB2	1:k:321:GLN:HE21	1.47	0.77
1:l:746:LEU:O	1:l:749:GLN:NE2	2.17	0.77
1:A:535:ALA:HB2	1:m:658:VAL:HG21	1.67	0.77
1:G:531:THR:OG1	1:G:586:VAL:O	2.01	0.77
1:H:318:ARG:HB2	1:H:321:GLN:HE21	1.47	0.77
1:L:770:LEU:HB2	1:L:774:ARG:HH12	1.48	0.77
1:M:770:LEU:HB2	1:M:774:ARG:HH12	1.48	0.77
1:O:746:LEU:O	1:O:749:GLN:NE2	2.17	0.77
1:O:770:LEU:HB2	1:O:774:ARG:HH12	1.48	0.77
1:T:746:LEU:O	1:T:749:GLN:NE2	2.17	0.77
1:Y:658:VAL:HG21	1:Z:535:ALA:HB2	1.67	0.77
1:m:770:LEU:HB2	1:m:774:ARG:HH12	1.48	0.77
1:E:658:VAL:HG21	1:F:535:ALA:HB2	1.67	0.77
1:L:318:ARG:HB2	1:L:321:GLN:HE21	1.47	0.77
1:M:658:VAL:HG21	1:N:535:ALA:HB2	1.67	0.77
1:R:531:THR:OG1	1:R:586:VAL:O	2.01	0.77
1:f:658:VAL:HG21	1:g:535:ALA:HB2	1.67	0.77
1:i:746:LEU:O	1:i:749:GLN:NE2	2.17	0.77
1:G:318:ARG:HB2	1:G:321:GLN:HE21	1.48	0.77
1:H:12:PRO:HA	1:H:32:PRO:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:658:VAL:HG21	1:I:535:ALA:HB2	1.67	0.77
1:M:318:ARG:HB2	1:M:321:GLN:HE21	1.47	0.77
1:b:658:VAL:HG21	1:c:535:ALA:HB2	1.67	0.77
1:f:770:LEU:HB2	1:f:774:ARG:HH12	1.48	0.77
1:L:12:PRO:HA	1:L:32:PRO:HB3	1.65	0.77
1:U:658:VAL:HG21	1:V:535:ALA:HB2	1.67	0.77
1:Y:531:THR:OG1	1:Y:586:VAL:O	2.01	0.77
1:e:770:LEU:HB2	1:e:774:ARG:HH12	1.48	0.77
1:j:746:LEU:O	1:j:749:GLN:NE2	2.17	0.77
1:B:746:LEU:O	1:B:749:GLN:NE2	2.17	0.77
1:I:12:PRO:HA	1:I:32:PRO:HB3	1.65	0.77
1:I:658:VAL:HG21	1:J:535:ALA:HB2	1.67	0.77
1:U:12:PRO:HA	1:U:32:PRO:HB3	1.66	0.77
1:W:770:LEU:HB2	1:W:774:ARG:HH12	1.48	0.77
1:Z:531:THR:OG1	1:Z:586:VAL:O	2.01	0.77
1:k:746:LEU:O	1:k:749:GLN:NE2	2.17	0.77
1:F:746:LEU:O	1:F:749:GLN:NE2	2.17	0.77
1:N:658:VAL:HG21	1:O:535:ALA:HB2	1.67	0.77
1:i:12:PRO:HA	1:i:32:PRO:HB3	1.65	0.77
1:B:12:PRO:HA	1:B:32:PRO:HB3	1.66	0.76
1:D:658:VAL:HG21	1:E:535:ALA:HB2	1.67	0.76
1:E:746:LEU:O	1:E:749:GLN:NE2	2.17	0.76
1:F:658:VAL:HG21	1:G:535:ALA:HB2	1.67	0.76
1:K:12:PRO:HA	1:K:32:PRO:HB3	1.66	0.76
1:T:658:VAL:HG21	1:U:535:ALA:HB2	1.67	0.76
1:X:746:LEU:O	1:X:749:GLN:NE2	2.17	0.76
1:h:746:LEU:O	1:h:749:GLN:NE2	2.17	0.76
1:A:658:VAL:HG21	1:B:535:ALA:HB2	1.67	0.76
1:c:12:PRO:HA	1:c:32:PRO:HB3	1.66	0.76
1:l:658:VAL:HG21	1:m:535:ALA:HB2	1.67	0.76
1:B:318:ARG:HB2	1:B:321:GLN:HE21	1.47	0.76
1:J:12:PRO:HA	1:J:32:PRO:HB3	1.66	0.76
1:P:658:VAL:HG21	1:Q:535:ALA:HB2	1.67	0.76
1:R:318:ARG:HB2	1:R:321:GLN:HE21	1.47	0.76
1:V:12:PRO:HA	1:V:32:PRO:HB3	1.65	0.76
1:Y:12:PRO:HA	1:Y:32:PRO:HB3	1.65	0.76
1:a:746:LEU:O	1:a:749:GLN:NE2	2.17	0.76
1:e:658:VAL:HG21	1:f:535:ALA:HB2	1.67	0.76
1:g:658:VAL:HG21	1:h:535:ALA:HB2	1.67	0.76
1:l:12:PRO:HA	1:l:32:PRO:HB3	1.66	0.76
1:C:12:PRO:HA	1:C:32:PRO:HB3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:658:VAL:HG21	1:K:535:ALA:HB2	1.67	0.76
1:R:12:PRO:HA	1:R:32:PRO:HB3	1.65	0.76
1:i:658:VAL:HG21	1:j:535:ALA:HB2	1.67	0.76
1:L:658:VAL:HG21	1:M:535:ALA:HB2	1.67	0.76
1:Z:658:VAL:HG21	1:a:535:ALA:HB2	1.67	0.76
1:e:12:PRO:HA	1:e:32:PRO:HB3	1.66	0.76
1:R:658:VAL:HG21	1:S:535:ALA:HB2	1.67	0.76
1:S:12:PRO:HA	1:S:32:PRO:HB3	1.65	0.76
1:V:658:VAL:HG21	1:W:535:ALA:HB2	1.67	0.76
1:X:658:VAL:HG21	1:Y:535:ALA:HB2	1.67	0.76
1:a:658:VAL:HG21	1:b:535:ALA:HB2	1.67	0.76
1:c:658:VAL:HG21	1:d:535:ALA:HB2	1.67	0.76
1:j:658:VAL:HG21	1:k:535:ALA:HB2	1.67	0.76
1:m:12:PRO:HA	1:m:32:PRO:HB3	1.66	0.76
1:B:658:VAL:HG21	1:C:535:ALA:HB2	1.67	0.76
1:A:531:THR:HG22	1:A:588:PHE:CZ	2.21	0.76
1:O:658:VAL:HG21	1:P:535:ALA:HB2	1.67	0.76
1:Q:658:VAL:HG21	1:R:535:ALA:HB2	1.67	0.76
1:S:658:VAL:HG21	1:T:535:ALA:HB2	1.67	0.76
1:X:531:THR:HG22	1:X:588:PHE:CZ	2.21	0.76
1:d:531:THR:HG22	1:d:588:PHE:CZ	2.21	0.76
1:f:531:THR:HG22	1:f:588:PHE:CZ	2.21	0.76
1:g:531:THR:HG22	1:g:588:PHE:CZ	2.21	0.76
1:l:531:THR:HG22	1:l:588:PHE:CZ	2.21	0.76
1:B:531:THR:HG22	1:B:588:PHE:CZ	2.21	0.75
1:E:531:THR:HG22	1:E:588:PHE:CZ	2.21	0.75
1:k:658:VAL:HG21	1:l:535:ALA:HB2	1.67	0.75
1:h:531:THR:HG22	1:h:588:PHE:CZ	2.21	0.75
1:C:658:VAL:HG21	1:D:535:ALA:HB2	1.67	0.75
1:G:531:THR:HG22	1:G:588:PHE:CZ	2.21	0.75
1:L:531:THR:HG22	1:L:588:PHE:CZ	2.21	0.75
1:Z:531:THR:HG22	1:Z:588:PHE:CZ	2.21	0.75
1:C:279:ARG:HD3	1:D:337:LEU:HD13	1.69	0.75
1:J:279:ARG:HD3	1:K:337:LEU:HD13	1.69	0.75
1:M:531:THR:HG22	1:M:588:PHE:CZ	2.21	0.75
1:P:531:THR:HG22	1:P:588:PHE:CZ	2.21	0.75
1:Q:531:THR:HG22	1:Q:588:PHE:CZ	2.21	0.75
1:T:531:THR:HG22	1:T:588:PHE:CZ	2.21	0.75
1:X:279:ARG:HD3	1:Y:337:LEU:HD13	1.69	0.75
1:e:531:THR:HG22	1:e:588:PHE:CZ	2.21	0.75
1:D:531:THR:HG22	1:D:588:PHE:CZ	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:531:THR:HG22	1:N:588:PHE:CZ	2.21	0.75
1:d:746:LEU:O	1:d:749:GLN:NE2	2.17	0.75
1:K:531:THR:HG22	1:K:588:PHE:CZ	2.21	0.75
1:O:279:ARG:HD3	1:P:337:LEU:HD13	1.69	0.75
1:S:531:THR:HG22	1:S:588:PHE:CZ	2.21	0.75
1:W:279:ARG:HD3	1:X:337:LEU:HD13	1.69	0.75
1:b:531:THR:HG22	1:b:588:PHE:CZ	2.21	0.75
1:e:279:ARG:HD3	1:f:337:LEU:HD13	1.69	0.75
1:h:658:VAL:HG21	1:i:535:ALA:HB2	1.67	0.75
1:i:279:ARG:HD3	1:j:337:LEU:HD13	1.69	0.75
1:i:531:THR:HG22	1:i:588:PHE:CZ	2.21	0.75
1:m:531:THR:HG22	1:m:588:PHE:CZ	2.21	0.75
1:B:279:ARG:HD3	1:C:337:LEU:HD13	1.69	0.75
1:I:531:THR:HG22	1:I:588:PHE:CZ	2.21	0.75
1:Y:531:THR:HG22	1:Y:588:PHE:CZ	2.21	0.75
1:a:279:ARG:HD3	1:b:337:LEU:HD13	1.69	0.75
1:R:531:THR:HG22	1:R:588:PHE:CZ	2.21	0.75
1:V:531:THR:HG22	1:V:588:PHE:CZ	2.21	0.75
1:b:279:ARG:HD3	1:c:337:LEU:HD13	1.69	0.75
1:j:279:ARG:HD3	1:k:337:LEU:HD13	1.69	0.75
1:F:279:ARG:HD3	1:G:337:LEU:HD13	1.69	0.75
1:G:279:ARG:HD3	1:H:337:LEU:HD13	1.69	0.75
1:K:658:VAL:HG21	1:L:535:ALA:HB2	1.67	0.75
1:N:279:ARG:HD3	1:O:337:LEU:HD13	1.69	0.75
1:O:531:THR:HG22	1:O:588:PHE:CZ	2.21	0.75
1:W:531:THR:HG22	1:W:588:PHE:CZ	2.21	0.75
1:C:531:THR:HG22	1:C:588:PHE:CZ	2.21	0.74
1:H:531:THR:HG22	1:H:588:PHE:CZ	2.21	0.74
1:J:531:THR:HG22	1:J:588:PHE:CZ	2.21	0.74
1:M:279:ARG:HD3	1:N:337:LEU:HD13	1.69	0.74
1:c:531:THR:HG22	1:c:588:PHE:CZ	2.21	0.74
1:A:279:ARG:HD3	1:B:337:LEU:HD13	1.69	0.74
1:F:531:THR:HG22	1:F:588:PHE:CZ	2.21	0.74
1:K:279:ARG:HD3	1:L:337:LEU:HD13	1.69	0.74
1:h:279:ARG:HD3	1:i:337:LEU:HD13	1.69	0.74
1:j:531:THR:HG22	1:j:588:PHE:CZ	2.21	0.74
1:U:531:THR:HG22	1:U:588:PHE:CZ	2.21	0.74
1:k:279:ARG:HD3	1:l:337:LEU:HD13	1.69	0.74
1:l:279:ARG:HD3	1:m:337:LEU:HD13	1.69	0.74
1:V:279:ARG:HD3	1:W:337:LEU:HD13	1.69	0.74
1:a:531:THR:HG22	1:a:588:PHE:CZ	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:658:VAL:HG21	1:e:535:ALA:HB2	1.67	0.74
1:k:531:THR:HG22	1:k:588:PHE:CZ	2.21	0.74
1:A:337:LEU:HD13	1:m:279:ARG:HD3	1.69	0.74
1:P:279:ARG:HD3	1:Q:337:LEU:HD13	1.69	0.74
1:W:658:VAL:HG21	1:X:535:ALA:HB2	1.67	0.74
1:D:279:ARG:HD3	1:E:337:LEU:HD13	1.69	0.74
1:f:279:ARG:HD3	1:g:337:LEU:HD13	1.69	0.74
1:I:279:ARG:HD3	1:J:337:LEU:HD13	1.69	0.74
1:S:337:LEU:HD12	1:S:338:GLN:HG3	1.70	0.74
1:C:337:LEU:HD12	1:C:338:GLN:HG3	1.70	0.74
1:J:337:LEU:HD12	1:J:338:GLN:HG3	1.70	0.74
1:U:279:ARG:HD3	1:V:337:LEU:HD13	1.69	0.74
1:m:337:LEU:HD12	1:m:338:GLN:HG3	1.70	0.74
1:L:337:LEU:HD12	1:L:338:GLN:HG3	1.70	0.73
1:Y:279:ARG:HD3	1:Z:337:LEU:HD13	1.69	0.73
1:d:337:LEU:HD12	1:d:338:GLN:HG3	1.70	0.73
1:l:337:LEU:HD12	1:l:338:GLN:HG3	1.70	0.73
1:G:337:LEU:HD12	1:G:338:GLN:HG3	1.70	0.73
1:V:337:LEU:HD12	1:V:338:GLN:HG3	1.70	0.73
1:Z:279:ARG:HD3	1:a:337:LEU:HD13	1.69	0.73
1:g:279:ARG:HD3	1:h:337:LEU:HD13	1.69	0.73
1:Q:279:ARG:HD3	1:R:337:LEU:HD13	1.69	0.73
1:R:337:LEU:HD12	1:R:338:GLN:HG3	1.70	0.73
1:c:279:ARG:HD3	1:d:337:LEU:HD13	1.69	0.73
1:e:337:LEU:HD12	1:e:338:GLN:HG3	1.70	0.73
1:Q:337:LEU:HD12	1:Q:338:GLN:HG3	1.70	0.73
1:F:337:LEU:HD12	1:F:338:GLN:HG3	1.70	0.73
1:K:337:LEU:HD12	1:K:338:GLN:HG3	1.70	0.73
1:W:337:LEU:HD12	1:W:338:GLN:HG3	1.70	0.73
1:k:337:LEU:HD12	1:k:338:GLN:HG3	1.70	0.73
1:c:337:LEU:HD12	1:c:338:GLN:HG3	1.70	0.73
1:E:279:ARG:HD3	1:F:337:LEU:HD13	1.69	0.73
1:L:279:ARG:HD3	1:M:337:LEU:HD13	1.69	0.73
1:P:337:LEU:HD12	1:P:338:GLN:HG3	1.70	0.73
1:S:279:ARG:HD3	1:T:337:LEU:HD13	1.69	0.73
1:T:279:ARG:HD3	1:U:337:LEU:HD13	1.69	0.73
1:Y:337:LEU:HD12	1:Y:338:GLN:HG3	1.70	0.73
1:d:279:ARG:HD3	1:e:337:LEU:HD13	1.69	0.73
1:N:337:LEU:HD12	1:N:338:GLN:HG3	1.70	0.73
1:I:337:LEU:HD12	1:I:338:GLN:HG3	1.70	0.73
1:M:337:LEU:HD12	1:M:338:GLN:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:279:ARG:HD3	1:S:337:LEU:HD13	1.69	0.72
1:G:662:ILE:HD11	1:H:654:LEU:HB3	1.71	0.72
1:H:279:ARG:HD3	1:I:337:LEU:HD13	1.69	0.72
1:O:337:LEU:HD12	1:O:338:GLN:HG3	1.70	0.72
1:a:337:LEU:HD12	1:a:338:GLN:HG3	1.70	0.72
1:f:662:ILE:HD11	1:g:654:LEU:HB3	1.71	0.72
1:B:662:ILE:HD11	1:C:654:LEU:HB3	1.71	0.72
1:F:662:ILE:HD11	1:G:654:LEU:HB3	1.71	0.72
1:U:765:VAL:HG12	1:V:759:LEU:HD21	1.72	0.72
1:X:337:LEU:HD12	1:X:338:GLN:HG3	1.70	0.72
1:b:662:ILE:HD11	1:c:654:LEU:HB3	1.71	0.72
1:h:662:ILE:HD11	1:i:654:LEU:HB3	1.71	0.72
1:D:337:LEU:HD12	1:D:338:GLN:HG3	1.70	0.72
1:N:662:ILE:HD11	1:O:654:LEU:HB3	1.71	0.72
1:T:337:LEU:HD12	1:T:338:GLN:HG3	1.70	0.72
1:U:662:ILE:HD11	1:V:654:LEU:HB3	1.71	0.72
1:Z:337:LEU:HD12	1:Z:338:GLN:HG3	1.70	0.72
1:b:765:VAL:HG12	1:c:759:LEU:HD21	1.72	0.72
1:j:337:LEU:HD12	1:j:338:GLN:HG3	1.70	0.72
1:C:662:ILE:HD11	1:D:654:LEU:HB3	1.71	0.72
1:L:765:VAL:HG12	1:M:759:LEU:HD21	1.72	0.72
1:M:662:ILE:HD11	1:N:654:LEU:HB3	1.71	0.72
1:f:765:VAL:HG12	1:g:759:LEU:HD21	1.72	0.72
1:A:654:LEU:HB3	1:m:662:ILE:HD11	1.71	0.72
1:E:337:LEU:HD12	1:E:338:GLN:HG3	1.70	0.72
1:T:662:ILE:HD11	1:U:654:LEU:HB3	1.71	0.72
1:b:337:LEU:HD12	1:b:338:GLN:HG3	1.70	0.72
1:f:337:LEU:HD12	1:f:338:GLN:HG3	1.70	0.72
1:A:759:LEU:HD21	1:m:765:VAL:HG12	1.72	0.72
1:A:765:VAL:HG12	1:B:759:LEU:HD21	1.72	0.72
1:K:662:ILE:HD11	1:L:654:LEU:HB3	1.71	0.72
1:U:337:LEU:HD12	1:U:338:GLN:HG3	1.70	0.72
1:A:337:LEU:HD12	1:A:338:GLN:HG3	1.70	0.72
1:B:337:LEU:HD12	1:B:338:GLN:HG3	1.70	0.72
1:H:337:LEU:HD12	1:H:338:GLN:HG3	1.70	0.72
1:M:765:VAL:HG12	1:N:759:LEU:HD21	1.72	0.72
1:Y:662:ILE:HD11	1:Z:654:LEU:HB3	1.71	0.72
1:E:765:VAL:HG12	1:F:759:LEU:HD21	1.72	0.72
1:I:662:ILE:HD11	1:J:654:LEU:HB3	1.71	0.72
1:V:662:ILE:HD11	1:W:654:LEU:HB3	1.71	0.72
1:c:662:ILE:HD11	1:d:654:LEU:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:765:VAL:HG12	1:d:759:LEU:HD21	1.72	0.72
1:g:337:LEU:HD12	1:g:338:GLN:HG3	1.70	0.72
1:D:765:VAL:HG12	1:E:759:LEU:HD21	1.72	0.72
1:G:765:VAL:HG12	1:H:759:LEU:HD21	1.72	0.72
1:T:765:VAL:HG12	1:U:759:LEU:HD21	1.72	0.72
1:V:765:VAL:HG12	1:W:759:LEU:HD21	1.72	0.72
1:X:662:ILE:HD11	1:Y:654:LEU:HB3	1.71	0.72
1:i:337:LEU:HD12	1:i:338:GLN:HG3	1.70	0.72
1:g:765:VAL:HG12	1:h:759:LEU:HD21	1.72	0.71
1:A:662:ILE:HD11	1:B:654:LEU:HB3	1.71	0.71
1:K:765:VAL:HG12	1:L:759:LEU:HD21	1.72	0.71
1:O:662:ILE:HD11	1:P:654:LEU:HB3	1.71	0.71
1:S:765:VAL:HG12	1:T:759:LEU:HD21	1.72	0.71
1:Z:765:VAL:HG12	1:a:759:LEU:HD21	1.72	0.71
1:h:337:LEU:HD12	1:h:338:GLN:HG3	1.70	0.71
1:k:662:ILE:HD11	1:l:654:LEU:HB3	1.71	0.71
1:T:779:LEU:HD22	1:U:774:ARG:NH2	2.06	0.71
1:a:662:ILE:HD11	1:b:654:LEU:HB3	1.71	0.71
1:Q:779:LEU:HD22	1:R:774:ARG:NH2	2.06	0.71
1:Z:662:ILE:HD11	1:a:654:LEU:HB3	1.71	0.71
1:c:779:LEU:HD22	1:d:774:ARG:NH2	2.06	0.71
1:i:662:ILE:HD11	1:j:654:LEU:HB3	1.71	0.71
1:E:779:LEU:HD22	1:F:774:ARG:NH2	2.06	0.71
1:P:662:ILE:HD11	1:Q:654:LEU:HB3	1.71	0.71
1:R:765:VAL:HG12	1:S:759:LEU:HD21	1.72	0.71
1:S:662:ILE:HD11	1:T:654:LEU:HB3	1.71	0.71
1:W:779:LEU:HD22	1:X:774:ARG:NH2	2.06	0.71
1:X:765:VAL:HG12	1:Y:759:LEU:HD21	1.72	0.71
1:e:779:LEU:HD22	1:f:774:ARG:NH2	2.06	0.71
1:m:123:LEU:HD12	1:m:157:VAL:HG12	1.73	0.71
1:B:779:LEU:HD22	1:C:774:ARG:NH2	2.06	0.71
1:E:662:ILE:HD11	1:F:654:LEU:HB3	1.71	0.71
1:H:662:ILE:HD11	1:I:654:LEU:HB3	1.71	0.71
1:Y:765:VAL:HG12	1:Z:759:LEU:HD21	1.72	0.71
1:j:662:ILE:HD11	1:k:654:LEU:HB3	1.71	0.71
1:H:779:LEU:HD22	1:I:774:ARG:NH2	2.06	0.71
1:I:765:VAL:HG12	1:J:759:LEU:HD21	1.72	0.71
1:L:123:LEU:HD12	1:L:157:VAL:HG12	1.73	0.71
1:L:779:LEU:HD22	1:M:774:ARG:NH2	2.06	0.71
1:N:765:VAL:HG12	1:O:759:LEU:HD21	1.72	0.71
1:N:779:LEU:HD22	1:O:774:ARG:NH2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:765:VAL:HG12	1:P:759:LEU:HD21	1.72	0.71
1:O:779:LEU:HD22	1:P:774:ARG:NH2	2.06	0.71
1:T:123:LEU:HD12	1:T:157:VAL:HG12	1.73	0.71
1:Z:779:LEU:HD22	1:a:774:ARG:NH2	2.06	0.71
1:b:123:LEU:HD12	1:b:157:VAL:HG12	1.73	0.71
1:f:123:LEU:HD12	1:f:157:VAL:HG12	1.73	0.71
1:f:779:LEU:HD22	1:g:774:ARG:NH2	2.06	0.71
1:l:749:GLN:NE2	1:m:741:VAL:HG22	2.06	0.71
1:K:123:LEU:HD12	1:K:157:VAL:HG12	1.73	0.71
1:K:779:LEU:HD22	1:L:774:ARG:NH2	2.06	0.71
1:S:123:LEU:HD12	1:S:157:VAL:HG12	1.73	0.71
1:S:779:LEU:HD22	1:T:774:ARG:NH2	2.06	0.71
1:b:779:LEU:HD22	1:c:774:ARG:NH2	2.06	0.71
1:j:765:VAL:HG12	1:k:759:LEU:HD21	1.72	0.71
1:C:765:VAL:HG12	1:D:759:LEU:HD21	1.72	0.71
1:C:779:LEU:HD22	1:D:774:ARG:NH2	2.06	0.71
1:F:123:LEU:HD12	1:F:157:VAL:HG12	1.73	0.71
1:J:662:ILE:HD11	1:K:654:LEU:HB3	1.71	0.71
1:M:123:LEU:HD12	1:M:157:VAL:HG12	1.73	0.71
1:R:749:GLN:NE2	1:S:741:VAL:HG22	2.06	0.71
1:a:765:VAL:HG12	1:b:759:LEU:HD21	1.72	0.71
1:g:662:ILE:HD11	1:h:654:LEU:HB3	1.71	0.71
1:j:779:LEU:HD22	1:k:774:ARG:NH2	2.06	0.71
1:B:505:PRO:HB3	1:B:526:VAL:HG12	1.73	0.71
1:I:779:LEU:HD22	1:J:774:ARG:NH2	2.06	0.71
1:J:505:PRO:HB3	1:J:526:VAL:HG12	1.73	0.71
1:J:749:GLN:NE2	1:K:741:VAL:HG22	2.06	0.71
1:J:765:VAL:HG12	1:K:759:LEU:HD21	1.72	0.71
1:L:662:ILE:HD11	1:M:654:LEU:HB3	1.72	0.71
1:N:123:LEU:HD12	1:N:157:VAL:HG12	1.73	0.71
1:O:749:GLN:NE2	1:P:741:VAL:HG22	2.06	0.71
1:R:123:LEU:HD12	1:R:157:VAL:HG12	1.73	0.71
1:U:123:LEU:HD12	1:U:157:VAL:HG12	1.73	0.71
1:k:779:LEU:HD22	1:l:774:ARG:NH2	2.06	0.71
1:A:774:ARG:NH2	1:m:779:LEU:HD22	2.06	0.70
1:G:749:GLN:NE2	1:H:741:VAL:HG22	2.06	0.70
1:H:505:PRO:HB3	1:H:526:VAL:HG12	1.73	0.70
1:P:765:VAL:HG12	1:Q:759:LEU:HD21	1.72	0.70
1:Q:123:LEU:HD12	1:Q:157:VAL:HG12	1.73	0.70
1:R:779:LEU:HD22	1:S:774:ARG:NH2	2.06	0.70
1:U:505:PRO:HB3	1:U:526:VAL:HG12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:749:GLN:NE2	1:b:741:VAL:HG22	2.06	0.70
1:h:505:PRO:HB3	1:h:526:VAL:HG12	1.73	0.70
1:k:765:VAL:HG12	1:l:759:LEU:HD21	1.72	0.70
1:C:123:LEU:HD12	1:C:157:VAL:HG12	1.73	0.70
1:D:123:LEU:HD12	1:D:157:VAL:HG12	1.73	0.70
1:F:779:LEU:HD22	1:G:774:ARG:NH2	2.06	0.70
1:Q:505:PRO:HB3	1:Q:526:VAL:HG12	1.73	0.70
1:Q:662:ILE:HD11	1:R:654:LEU:HB3	1.71	0.70
1:R:505:PRO:HB3	1:R:526:VAL:HG12	1.73	0.70
1:d:662:ILE:HD11	1:e:654:LEU:HB3	1.71	0.70
1:e:662:ILE:HD11	1:f:654:LEU:HB3	1.71	0.70
1:i:765:VAL:HG12	1:j:759:LEU:HD21	1.72	0.70
1:A:505:PRO:HB3	1:A:526:VAL:HG12	1.73	0.70
1:A:779:LEU:HD22	1:B:774:ARG:NH2	2.06	0.70
1:L:505:PRO:HB3	1:L:526:VAL:HG12	1.73	0.70
1:O:123:LEU:HD12	1:O:157:VAL:HG12	1.73	0.70
1:P:123:LEU:HD12	1:P:157:VAL:HG12	1.73	0.70
1:Q:765:VAL:HG12	1:R:759:LEU:HD21	1.72	0.70
1:c:123:LEU:HD12	1:c:157:VAL:HG12	1.73	0.70
1:C:33:LYS:HA	1:D:24:ASN:HD21	1.57	0.70
1:D:662:ILE:HD11	1:E:654:LEU:HB3	1.71	0.70
1:G:123:LEU:HD12	1:G:157:VAL:HG12	1.73	0.70
1:M:749:GLN:NE2	1:N:741:VAL:HG22	2.06	0.70
1:P:33:LYS:HA	1:Q:24:ASN:HD21	1.57	0.70
1:U:779:LEU:HD22	1:V:774:ARG:NH2	2.06	0.70
1:X:33:LYS:HA	1:Y:24:ASN:HD21	1.57	0.70
1:X:123:LEU:HD12	1:X:157:VAL:HG12	1.73	0.70
1:Y:123:LEU:HD12	1:Y:157:VAL:HG12	1.73	0.70
1:Y:779:LEU:HD22	1:Z:774:ARG:NH2	2.06	0.70
1:a:33:LYS:HA	1:b:24:ASN:HD21	1.57	0.70
1:a:779:LEU:HD22	1:b:774:ARG:NH2	2.06	0.70
1:g:505:PRO:HB3	1:g:526:VAL:HG12	1.73	0.70
1:l:505:PRO:HB3	1:l:526:VAL:HG12	1.73	0.70
1:C:749:GLN:NE2	1:D:741:VAL:HG22	2.06	0.70
1:G:779:LEU:HD22	1:H:774:ARG:NH2	2.06	0.70
1:H:765:VAL:HG12	1:I:759:LEU:HD21	1.72	0.70
1:J:123:LEU:HD12	1:J:157:VAL:HG12	1.73	0.70
1:M:33:LYS:HA	1:N:24:ASN:HD21	1.56	0.70
1:M:505:PRO:HB3	1:M:526:VAL:HG12	1.73	0.70
1:N:749:GLN:NE2	1:O:741:VAL:HG22	2.06	0.70
1:P:779:LEU:HD22	1:Q:774:ARG:NH2	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:33:LYS:HA	1:U:24:ASN:HD21	1.57	0.70
1:U:749:GLN:NE2	1:V:741:VAL:HG22	2.06	0.70
1:W:662:ILE:HD11	1:X:654:LEU:HB3	1.71	0.70
1:X:505:PRO:HB3	1:X:526:VAL:HG12	1.73	0.70
1:Z:749:GLN:NE2	1:a:741:VAL:HG22	2.06	0.70
1:d:765:VAL:HG12	1:e:759:LEU:HD21	1.72	0.70
1:k:33:LYS:HA	1:l:24:ASN:HD21	1.57	0.70
1:C:505:PRO:HB3	1:C:526:VAL:HG12	1.73	0.70
1:L:749:GLN:NE2	1:M:741:VAL:HG22	2.06	0.70
1:Q:33:LYS:HA	1:R:24:ASN:HD21	1.57	0.70
1:R:662:ILE:HD11	1:S:654:LEU:HB3	1.71	0.70
1:X:749:GLN:NE2	1:Y:741:VAL:HG22	2.06	0.70
1:Y:505:PRO:HB3	1:Y:526:VAL:HG12	1.73	0.70
1:Y:749:GLN:NE2	1:Z:741:VAL:HG22	2.06	0.70
1:Z:123:LEU:HD12	1:Z:157:VAL:HG12	1.73	0.70
1:e:33:LYS:HA	1:f:24:ASN:HD21	1.57	0.70
1:e:123:LEU:HD12	1:e:157:VAL:HG12	1.73	0.70
1:h:779:LEU:HD22	1:i:774:ARG:NH2	2.06	0.70
1:l:33:LYS:HA	1:m:24:ASN:HD21	1.57	0.70
1:B:123:LEU:HD12	1:B:157:VAL:HG12	1.73	0.70
1:F:765:VAL:HG12	1:G:759:LEU:HD21	1.72	0.70
1:T:749:GLN:NE2	1:U:741:VAL:HG22	2.06	0.70
1:a:123:LEU:HD12	1:a:157:VAL:HG12	1.73	0.70
1:b:33:LYS:HA	1:c:24:ASN:HD21	1.57	0.70
1:E:749:GLN:NE2	1:F:741:VAL:HG22	2.06	0.70
1:F:505:PRO:HB3	1:F:526:VAL:HG12	1.73	0.70
1:G:505:PRO:HB3	1:G:526:VAL:HG12	1.73	0.70
1:O:33:LYS:HA	1:P:24:ASN:HD21	1.57	0.70
1:Q:749:GLN:NE2	1:R:741:VAL:HG22	2.06	0.70
1:W:33:LYS:HA	1:X:24:ASN:HD21	1.57	0.70
1:c:505:PRO:HB3	1:c:526:VAL:HG12	1.73	0.70
1:k:123:LEU:HD12	1:k:157:VAL:HG12	1.73	0.70
1:l:662:ILE:HD11	1:m:654:LEU:HB3	1.71	0.70
1:l:765:VAL:HG12	1:m:759:LEU:HD21	1.72	0.70
1:A:749:GLN:NE2	1:B:741:VAL:HG22	2.06	0.70
1:B:33:LYS:HA	1:C:24:ASN:HD21	1.57	0.70
1:D:33:LYS:HA	1:E:24:ASN:HD21	1.57	0.70
1:D:779:LEU:HD22	1:E:774:ARG:NH2	2.06	0.70
1:E:505:PRO:HB3	1:E:526:VAL:HG12	1.73	0.70
1:S:33:LYS:HA	1:T:24:ASN:HD21	1.57	0.70
1:U:33:LYS:HA	1:V:24:ASN:HD21	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:765:VAL:HG12	1:X:759:LEU:HD21	1.72	0.70
1:Y:33:LYS:HA	1:Z:24:ASN:HD21	1.57	0.70
1:d:779:LEU:HD22	1:e:774:ARG:NH2	2.06	0.70
1:e:765:VAL:HG12	1:f:759:LEU:HD21	1.72	0.70
1:g:33:LYS:HA	1:h:24:ASN:HD21	1.57	0.70
1:g:779:LEU:HD22	1:h:774:ARG:NH2	2.06	0.70
1:h:33:LYS:HA	1:i:24:ASN:HD21	1.57	0.70
1:k:749:GLN:NE2	1:l:741:VAL:HG22	2.06	0.70
1:B:749:GLN:NE2	1:C:741:VAL:HG22	2.06	0.70
1:X:779:LEU:HD22	1:Y:774:ARG:NH2	2.06	0.70
1:Y:779:LEU:HD11	1:Z:777:LEU:HD21	1.74	0.70
1:e:749:GLN:NE2	1:f:741:VAL:HG22	2.06	0.70
1:f:33:LYS:HA	1:g:24:ASN:HD21	1.57	0.70
1:i:779:LEU:HD11	1:j:777:LEU:HD21	1.74	0.70
1:H:123:LEU:HD12	1:H:157:VAL:HG12	1.73	0.69
1:X:779:LEU:HD11	1:Y:777:LEU:HD21	1.74	0.69
1:Z:779:LEU:HD11	1:a:777:LEU:HD21	1.74	0.69
1:h:765:VAL:HG12	1:i:759:LEU:HD21	1.72	0.69
1:i:505:PRO:HB3	1:i:526:VAL:HG12	1.73	0.69
1:i:749:GLN:NE2	1:j:741:VAL:HG22	2.06	0.69
1:l:123:LEU:HD12	1:l:157:VAL:HG12	1.73	0.69
1:J:779:LEU:HD22	1:K:774:ARG:NH2	2.06	0.69
1:K:505:PRO:HB3	1:K:526:VAL:HG12	1.73	0.69
1:P:505:PRO:HB3	1:P:526:VAL:HG12	1.73	0.69
1:V:749:GLN:NE2	1:W:741:VAL:HG22	2.06	0.69
1:V:779:LEU:HD22	1:W:774:ARG:NH2	2.06	0.69
1:W:123:LEU:HD12	1:W:157:VAL:HG12	1.73	0.69
1:b:779:LEU:HD11	1:c:777:LEU:HD21	1.74	0.69
1:i:779:LEU:HD22	1:j:774:ARG:NH2	2.06	0.69
1:j:505:PRO:HB3	1:j:526:VAL:HG12	1.73	0.69
1:l:779:LEU:HD22	1:m:774:ARG:NH2	2.06	0.69
1:D:749:GLN:NE2	1:E:741:VAL:HG22	2.06	0.69
1:G:33:LYS:HA	1:H:24:ASN:HD21	1.57	0.69
1:K:779:LEU:HD11	1:L:777:LEU:HD21	1.74	0.69
1:N:505:PRO:HB3	1:N:526:VAL:HG12	1.73	0.69
1:V:123:LEU:HD12	1:V:157:VAL:HG12	1.73	0.69
1:Z:33:LYS:HA	1:a:24:ASN:HD21	1.57	0.69
1:a:779:LEU:HD11	1:b:777:LEU:HD21	1.75	0.69
1:g:749:GLN:NE2	1:h:741:VAL:HG22	2.06	0.69
1:B:765:VAL:HG12	1:C:759:LEU:HD21	1.72	0.69
1:L:33:LYS:HA	1:M:24:ASN:HD21	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:779:LEU:HD11	1:P:777:LEU:HD21	1.75	0.69
1:W:779:LEU:HD11	1:X:777:LEU:HD21	1.74	0.69
1:Z:505:PRO:HB3	1:Z:526:VAL:HG12	1.73	0.69
1:j:33:LYS:HA	1:k:24:ASN:HD21	1.57	0.69
1:D:779:LEU:HD11	1:E:777:LEU:HD21	1.74	0.69
1:I:33:LYS:HA	1:J:24:ASN:HD21	1.57	0.69
1:O:505:PRO:HB3	1:O:526:VAL:HG12	1.73	0.69
1:S:505:PRO:HB3	1:S:526:VAL:HG12	1.73	0.69
1:c:33:LYS:HA	1:d:24:ASN:HD21	1.57	0.69
1:c:749:GLN:NE2	1:d:741:VAL:HG22	2.06	0.69
1:c:779:LEU:HD11	1:d:777:LEU:HD21	1.75	0.69
1:d:779:LEU:HD11	1:e:777:LEU:HD21	1.74	0.69
1:g:123:LEU:HD12	1:g:157:VAL:HG12	1.73	0.69
1:h:749:GLN:NE2	1:i:741:VAL:HG22	2.06	0.69
1:i:123:LEU:HD12	1:i:157:VAL:HG12	1.73	0.69
1:F:33:LYS:HA	1:G:24:ASN:HD21	1.57	0.69
1:Q:709:LEU:HA	1:Q:712:MET:HG3	1.75	0.69
1:S:779:LEU:HD11	1:T:777:LEU:HD21	1.74	0.69
1:Y:709:LEU:HA	1:Y:712:MET:HG3	1.75	0.69
1:e:505:PRO:HB3	1:e:526:VAL:HG12	1.73	0.69
1:A:24:ASN:HD21	1:m:33:LYS:HA	1.57	0.69
1:A:33:LYS:HA	1:B:24:ASN:HD21	1.57	0.69
1:A:777:LEU:HD21	1:m:779:LEU:HD11	1.75	0.69
1:C:709:LEU:HA	1:C:712:MET:HG3	1.75	0.69
1:M:779:LEU:HD22	1:N:774:ARG:NH2	2.06	0.69
1:N:33:LYS:HA	1:O:24:ASN:HD21	1.57	0.69
1:O:767:GLU:O	1:O:770:LEU:HG	1.93	0.69
1:f:505:PRO:HB3	1:f:526:VAL:HG12	1.73	0.69
1:h:123:LEU:HD12	1:h:157:VAL:HG12	1.73	0.69
1:k:505:PRO:HB3	1:k:526:VAL:HG12	1.73	0.69
1:F:767:GLU:O	1:F:770:LEU:HG	1.93	0.69
1:H:767:GLU:O	1:H:770:LEU:HG	1.93	0.69
1:I:505:PRO:HB3	1:I:526:VAL:HG12	1.73	0.69
1:I:749:GLN:NE2	1:J:741:VAL:HG22	2.06	0.69
1:I:767:GLU:O	1:I:770:LEU:HG	1.93	0.69
1:P:709:LEU:HA	1:P:712:MET:HG3	1.75	0.69
1:R:709:LEU:HA	1:R:712:MET:HG3	1.75	0.69
1:S:767:GLU:O	1:S:770:LEU:HG	1.93	0.69
1:Z:709:LEU:HA	1:Z:712:MET:HG3	1.75	0.69
1:j:709:LEU:HA	1:j:712:MET:HG3	1.75	0.69
1:k:506:LYS:HZ3	1:k:523:PHE:HB3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:767:GLU:O	1:k:770:LEU:HG	1.93	0.69
1:l:779:LEU:HD11	1:m:777:LEU:HD21	1.75	0.69
1:m:767:GLU:O	1:m:770:LEU:HG	1.93	0.69
1:F:749:GLN:NE2	1:G:741:VAL:HG22	2.06	0.69
1:G:779:LEU:HD11	1:H:777:LEU:HD21	1.74	0.69
1:H:33:LYS:HA	1:I:24:ASN:HD21	1.57	0.69
1:H:709:LEU:HA	1:H:712:MET:HG3	1.75	0.69
1:I:123:LEU:HD12	1:I:157:VAL:HG12	1.73	0.69
1:I:709:LEU:HA	1:I:712:MET:HG3	1.75	0.69
1:M:767:GLU:O	1:M:770:LEU:HG	1.93	0.69
1:N:779:LEU:HD11	1:O:777:LEU:HD21	1.75	0.69
1:P:779:LEU:HD11	1:Q:777:LEU:HD21	1.74	0.69
1:U:767:GLU:O	1:U:770:LEU:HG	1.93	0.69
1:V:709:LEU:HA	1:V:712:MET:HG3	1.75	0.69
1:a:767:GLU:O	1:a:770:LEU:HG	1.93	0.69
1:c:709:LEU:HA	1:c:712:MET:HG3	1.75	0.69
1:d:505:PRO:HB3	1:d:526:VAL:HG12	1.73	0.69
1:e:779:LEU:HD11	1:f:777:LEU:HD21	1.74	0.69
1:g:767:GLU:O	1:g:770:LEU:HG	1.93	0.69
1:A:123:LEU:HD12	1:A:157:VAL:HG12	1.73	0.69
1:A:779:LEU:HD11	1:B:777:LEU:HD21	1.74	0.69
1:E:33:LYS:HA	1:F:24:ASN:HD21	1.57	0.69
1:E:123:LEU:HD12	1:E:157:VAL:HG12	1.73	0.69
1:V:33:LYS:HA	1:W:24:ASN:HD21	1.57	0.69
1:V:767:GLU:O	1:V:770:LEU:HG	1.93	0.69
1:Y:767:GLU:O	1:Y:770:LEU:HG	1.93	0.69
1:a:505:PRO:HB3	1:a:526:VAL:HG12	1.73	0.69
1:b:505:PRO:HB3	1:b:526:VAL:HG12	1.73	0.69
1:d:33:LYS:HA	1:e:24:ASN:HD21	1.57	0.69
1:i:33:LYS:HA	1:j:24:ASN:HD21	1.57	0.69
1:m:505:PRO:HB3	1:m:526:VAL:HG12	1.73	0.69
1:E:767:GLU:O	1:E:770:LEU:HG	1.93	0.68
1:H:779:LEU:HD11	1:I:777:LEU:HD21	1.74	0.68
1:K:767:GLU:O	1:K:770:LEU:HG	1.93	0.68
1:O:709:LEU:HA	1:O:712:MET:HG3	1.75	0.68
1:R:779:LEU:HD11	1:S:777:LEU:HD21	1.74	0.68
1:V:505:PRO:HB3	1:V:526:VAL:HG12	1.73	0.68
1:V:779:LEU:HD11	1:W:777:LEU:HD21	1.75	0.68
1:h:709:LEU:HA	1:h:712:MET:HG3	1.75	0.68
1:l:709:LEU:HA	1:l:712:MET:HG3	1.75	0.68
1:A:741:VAL:HG22	1:m:749:GLN:NE2	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:767:GLU:O	1:B:770:LEU:HG	1.93	0.68
1:D:506:LYS:HZ3	1:D:523:PHE:HB3	1.58	0.68
1:G:709:LEU:HA	1:G:712:MET:HG3	1.75	0.68
1:T:779:LEU:HD11	1:U:777:LEU:HD21	1.74	0.68
1:W:767:GLU:O	1:W:770:LEU:HG	1.93	0.68
1:e:767:GLU:O	1:e:770:LEU:HG	1.93	0.68
1:f:749:GLN:NE2	1:g:741:VAL:HG22	2.06	0.68
1:f:779:LEU:HD11	1:g:777:LEU:HD21	1.74	0.68
1:D:505:PRO:HB3	1:D:526:VAL:HG12	1.73	0.68
1:J:33:LYS:HA	1:K:24:ASN:HD21	1.57	0.68
1:L:767:GLU:O	1:L:770:LEU:HG	1.93	0.68
1:Q:767:GLU:O	1:Q:770:LEU:HG	1.93	0.68
1:R:33:LYS:HA	1:S:24:ASN:HD21	1.57	0.68
1:W:505:PRO:HB3	1:W:526:VAL:HG12	1.73	0.68
1:X:767:GLU:O	1:X:770:LEU:HG	1.93	0.68
1:c:767:GLU:O	1:c:770:LEU:HG	1.93	0.68
1:m:709:LEU:HA	1:m:712:MET:HG3	1.75	0.68
1:J:709:LEU:HA	1:J:712:MET:HG3	1.75	0.68
1:P:749:GLN:NE2	1:Q:741:VAL:HG22	2.06	0.68
1:Q:779:LEU:HD11	1:R:777:LEU:HD21	1.75	0.68
1:S:709:LEU:HA	1:S:712:MET:HG3	1.75	0.68
1:T:505:PRO:HB3	1:T:526:VAL:HG12	1.73	0.68
1:b:709:LEU:HA	1:b:712:MET:HG3	1.75	0.68
1:d:123:LEU:HD12	1:d:157:VAL:HG12	1.73	0.68
1:j:123:LEU:HD12	1:j:157:VAL:HG12	1.73	0.68
1:j:749:GLN:NE2	1:k:741:VAL:HG22	2.06	0.68
1:m:502:ALA:O	1:m:507:ARG:N	2.27	0.68
1:B:779:LEU:HD11	1:C:777:LEU:HD21	1.75	0.68
1:C:767:GLU:O	1:C:770:LEU:HG	1.93	0.68
1:K:33:LYS:HA	1:L:24:ASN:HD21	1.57	0.68
1:M:382:LEU:H	1:M:405:THR:HG22	1.59	0.68
1:d:382:LEU:H	1:d:405:THR:HG22	1.59	0.68
1:d:709:LEU:HA	1:d:712:MET:HG3	1.75	0.68
1:h:779:LEU:HD11	1:i:777:LEU:HD21	1.75	0.68
1:i:767:GLU:O	1:i:770:LEU:HG	1.93	0.68
1:D:709:LEU:HA	1:D:712:MET:HG3	1.75	0.68
1:G:502:ALA:O	1:G:507:ARG:N	2.27	0.68
1:J:597:ARG:HH22	1:K:585:SER:HB3	1.59	0.68
1:K:709:LEU:HA	1:K:712:MET:HG3	1.75	0.68
1:N:709:LEU:HA	1:N:712:MET:HG3	1.75	0.68
1:Q:382:LEU:H	1:Q:405:THR:HG22	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:502:ALA:O	1:W:507:ARG:N	2.27	0.68
1:b:502:ALA:O	1:b:507:ARG:N	2.27	0.68
1:d:749:GLN:NE2	1:e:741:VAL:HG22	2.06	0.68
1:A:506:LYS:HZ3	1:A:523:PHE:HB3	1.58	0.68
1:A:709:LEU:HA	1:A:712:MET:HG3	1.75	0.68
1:B:597:ARG:HH22	1:C:585:SER:HB3	1.59	0.68
1:F:502:ALA:O	1:F:507:ARG:N	2.27	0.68
1:F:597:ARG:HH22	1:G:585:SER:HB3	1.59	0.68
1:G:384:GLN:HB2	1:H:474:ARG:HD2	1.76	0.68
1:R:767:GLU:O	1:R:770:LEU:HG	1.93	0.68
1:W:709:LEU:HA	1:W:712:MET:HG3	1.75	0.68
1:f:597:ARG:HH22	1:g:585:SER:HB3	1.59	0.68
1:h:382:LEU:H	1:h:405:THR:HG22	1.59	0.68
1:j:681:GLU:OE1	1:k:675:HIS:NE2	2.25	0.68
1:C:502:ALA:O	1:C:507:ARG:N	2.27	0.68
1:K:749:GLN:NE2	1:L:741:VAL:HG22	2.06	0.68
1:M:709:LEU:HA	1:M:712:MET:HG3	1.75	0.68
1:Q:502:ALA:O	1:Q:507:ARG:N	2.27	0.68
1:Q:597:ARG:HH22	1:R:585:SER:HB3	1.59	0.68
1:T:384:GLN:HB2	1:U:474:ARG:HD2	1.76	0.68
1:T:502:ALA:O	1:T:507:ARG:N	2.27	0.68
1:V:382:LEU:H	1:V:405:THR:HG22	1.59	0.68
1:X:597:ARG:HH22	1:Y:585:SER:HB3	1.59	0.68
1:e:502:ALA:O	1:e:507:ARG:N	2.27	0.68
1:e:597:ARG:HH22	1:f:585:SER:HB3	1.59	0.68
1:h:502:ALA:O	1:h:507:ARG:N	2.27	0.68
1:i:709:LEU:HA	1:i:712:MET:HG3	1.75	0.68
1:k:779:LEU:HD11	1:l:777:LEU:HD21	1.74	0.68
1:C:384:GLN:HB2	1:D:474:ARG:HD2	1.76	0.68
1:C:779:LEU:HD11	1:D:777:LEU:HD21	1.74	0.68
1:G:681:GLU:OE1	1:H:675:HIS:NE2	2.25	0.68
1:K:502:ALA:O	1:K:507:ARG:N	2.27	0.68
1:L:502:ALA:O	1:L:507:ARG:N	2.27	0.68
1:L:709:LEU:HA	1:L:712:MET:HG3	1.75	0.68
1:N:767:GLU:O	1:N:770:LEU:HG	1.93	0.68
1:Q:384:GLN:HB2	1:R:474:ARG:HD2	1.76	0.68
1:X:502:ALA:O	1:X:507:ARG:N	2.27	0.68
1:Z:767:GLU:O	1:Z:770:LEU:HG	1.93	0.68
1:a:597:ARG:HH22	1:b:585:SER:HB3	1.59	0.68
1:C:382:LEU:H	1:C:405:THR:HG22	1.59	0.68
1:D:767:GLU:O	1:D:770:LEU:HG	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:384:GLN:HB2	1:J:474:ARG:HD2	1.76	0.68
1:L:779:LEU:HD11	1:M:777:LEU:HD21	1.74	0.68
1:O:502:ALA:O	1:O:507:ARG:N	2.27	0.68
1:R:502:ALA:O	1:R:507:ARG:N	2.27	0.68
1:R:597:ARG:HH22	1:S:585:SER:HB3	1.59	0.68
1:V:502:ALA:O	1:V:507:ARG:N	2.27	0.68
1:W:382:LEU:H	1:W:405:THR:HG22	1.59	0.68
1:W:749:GLN:NE2	1:X:741:VAL:HG22	2.06	0.68
1:b:382:LEU:H	1:b:405:THR:HG22	1.59	0.68
1:b:749:GLN:NE2	1:c:741:VAL:HG22	2.06	0.68
1:d:681:GLU:OE1	1:e:675:HIS:NE2	2.25	0.68
1:e:709:LEU:HA	1:e:712:MET:HG3	1.75	0.68
1:g:382:LEU:H	1:g:405:THR:HG22	1.59	0.68
1:i:384:GLN:HB2	1:j:474:ARG:HD2	1.76	0.68
1:j:382:LEU:H	1:j:405:THR:HG22	1.59	0.68
1:D:502:ALA:O	1:D:507:ARG:N	2.27	0.67
1:E:597:ARG:HH22	1:F:585:SER:HB3	1.59	0.67
1:F:709:LEU:HA	1:F:712:MET:HG3	1.75	0.67
1:M:779:LEU:HD11	1:N:777:LEU:HD21	1.74	0.67
1:N:384:GLN:HB2	1:O:474:ARG:HD2	1.76	0.67
1:N:597:ARG:HH22	1:O:585:SER:HB3	1.59	0.67
1:O:384:GLN:HB2	1:P:474:ARG:HD2	1.76	0.67
1:P:767:GLU:O	1:P:770:LEU:HG	1.93	0.67
1:W:384:GLN:HB2	1:X:474:ARG:HD2	1.76	0.67
1:X:709:LEU:HA	1:X:712:MET:HG3	1.75	0.67
1:Z:502:ALA:O	1:Z:507:ARG:N	2.27	0.67
1:b:384:GLN:HB2	1:c:474:ARG:HD2	1.76	0.67
1:d:794:LYS:NZ	1:e:785:GLN:O	2.28	0.67
1:f:709:LEU:HA	1:f:712:MET:HG3	1.75	0.67
1:l:384:GLN:HB2	1:m:474:ARG:HD2	1.76	0.67
1:l:767:GLU:O	1:l:770:LEU:HG	1.93	0.67
1:A:382:LEU:H	1:A:405:THR:HG22	1.59	0.67
1:B:794:LYS:NZ	1:C:785:GLN:O	2.28	0.67
1:C:794:LYS:NZ	1:D:785:GLN:O	2.28	0.67
1:D:382:LEU:H	1:D:405:THR:HG22	1.59	0.67
1:E:794:LYS:NZ	1:F:785:GLN:O	2.28	0.67
1:I:597:ARG:HH22	1:J:585:SER:HB3	1.59	0.67
1:L:794:LYS:NZ	1:M:785:GLN:O	2.28	0.67
1:M:597:ARG:HH22	1:N:585:SER:HB3	1.59	0.67
1:O:794:LYS:NZ	1:P:785:GLN:O	2.28	0.67
1:S:794:LYS:NZ	1:T:785:GLN:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:709:LEU:HA	1:U:712:MET:HG3	1.75	0.67
1:d:597:ARG:HH22	1:e:585:SER:HB3	1.59	0.67
1:f:794:LYS:NZ	1:g:785:GLN:O	2.28	0.67
1:h:767:GLU:O	1:h:770:LEU:HG	1.93	0.67
1:j:384:GLN:HB2	1:k:474:ARG:HD2	1.76	0.67
1:j:779:LEU:HD11	1:k:777:LEU:HD21	1.75	0.67
1:k:794:LYS:NZ	1:l:785:GLN:O	2.28	0.67
1:l:502:ALA:O	1:l:507:ARG:N	2.27	0.67
1:A:502:ALA:O	1:A:507:ARG:N	2.27	0.67
1:G:767:GLU:O	1:G:770:LEU:HG	1.93	0.67
1:J:384:GLN:HB2	1:K:474:ARG:HD2	1.76	0.67
1:J:779:LEU:HD11	1:K:777:LEU:HD21	1.74	0.67
1:O:597:ARG:HH22	1:P:585:SER:HB3	1.59	0.67
1:S:382:LEU:H	1:S:405:THR:HG22	1.59	0.67
1:S:749:GLN:NE2	1:T:741:VAL:HG22	2.06	0.67
1:T:767:GLU:O	1:T:770:LEU:HG	1.93	0.67
1:U:384:GLN:HB2	1:V:474:ARG:HD2	1.76	0.67
1:U:779:LEU:HD11	1:V:777:LEU:HD21	1.74	0.67
1:V:681:GLU:OE1	1:W:675:HIS:NE2	2.25	0.67
1:a:384:GLN:HB2	1:b:474:ARG:HD2	1.76	0.67
1:h:794:LYS:NZ	1:i:785:GLN:O	2.28	0.67
1:k:177:ARG:NH1	1:k:178:ALA:O	2.28	0.67
1:l:382:LEU:H	1:l:405:THR:HG22	1.59	0.67
1:A:767:GLU:O	1:A:770:LEU:HG	1.93	0.67
1:B:502:ALA:O	1:B:507:ARG:N	2.27	0.67
1:D:177:ARG:NH1	1:D:178:ALA:O	2.28	0.67
1:D:384:GLN:HB2	1:E:474:ARG:HD2	1.76	0.67
1:E:177:ARG:NH1	1:E:178:ALA:O	2.28	0.67
1:I:794:LYS:NZ	1:J:785:GLN:O	2.28	0.67
1:K:382:LEU:H	1:K:405:THR:HG22	1.59	0.67
1:L:177:ARG:NH1	1:L:178:ALA:O	2.28	0.67
1:L:384:GLN:HB2	1:M:474:ARG:HD2	1.76	0.67
1:P:382:LEU:H	1:P:405:THR:HG22	1.59	0.67
1:S:177:ARG:NH1	1:S:178:ALA:O	2.28	0.67
1:T:382:LEU:H	1:T:405:THR:HG22	1.59	0.67
1:W:794:LYS:NZ	1:X:785:GLN:O	2.28	0.67
1:X:177:ARG:NH1	1:X:178:ALA:O	2.28	0.67
1:b:597:ARG:HH22	1:c:585:SER:HB3	1.59	0.67
1:b:767:GLU:O	1:b:770:LEU:HG	1.93	0.67
1:b:794:LYS:NZ	1:c:785:GLN:O	2.28	0.67
1:c:177:ARG:NH1	1:c:178:ALA:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:502:ALA:O	1:c:507:ARG:N	2.27	0.67
1:d:767:GLU:O	1:d:770:LEU:HG	1.93	0.67
1:i:794:LYS:NZ	1:j:785:GLN:O	2.28	0.67
1:A:177:ARG:NH1	1:A:178:ALA:O	2.28	0.67
1:A:585:SER:HB3	1:m:597:ARG:HH22	1.59	0.67
1:F:177:ARG:NH1	1:F:178:ALA:O	2.28	0.67
1:F:794:LYS:NZ	1:G:785:GLN:O	2.28	0.67
1:O:177:ARG:NH1	1:O:178:ALA:O	2.28	0.67
1:P:384:GLN:HB2	1:Q:474:ARG:HD2	1.76	0.67
1:T:709:LEU:HA	1:T:712:MET:HG3	1.75	0.67
1:U:502:ALA:O	1:U:507:ARG:N	2.27	0.67
1:V:597:ARG:HH22	1:W:585:SER:HB3	1.59	0.67
1:Z:681:GLU:OE1	1:a:675:HIS:NE2	2.25	0.67
1:Z:794:LYS:NZ	1:a:785:GLN:O	2.28	0.67
1:b:177:ARG:NH1	1:b:178:ALA:O	2.28	0.67
1:f:767:GLU:O	1:f:770:LEU:HG	1.93	0.67
1:g:779:LEU:HD11	1:h:777:LEU:HD21	1.74	0.67
1:h:177:ARG:NH1	1:h:178:ALA:O	2.28	0.67
1:h:384:GLN:HB2	1:i:474:ARG:HD2	1.76	0.67
1:j:502:ALA:O	1:j:507:ARG:N	2.27	0.67
1:j:767:GLU:O	1:j:770:LEU:HG	1.93	0.67
1:J:767:GLU:O	1:J:770:LEU:HG	1.93	0.67
1:X:384:GLN:HB2	1:Y:474:ARG:HD2	1.76	0.67
1:Y:502:ALA:O	1:Y:507:ARG:N	2.27	0.67
1:Z:382:LEU:H	1:Z:405:THR:HG22	1.59	0.67
1:a:794:LYS:NZ	1:b:785:GLN:O	2.28	0.67
1:b:685:ARG:HH21	1:b:689:GLU:HG3	1.60	0.67
1:c:384:GLN:HB2	1:d:474:ARG:HD2	1.76	0.67
1:g:597:ARG:HH22	1:h:585:SER:HB3	1.59	0.67
1:k:597:ARG:HH22	1:l:585:SER:HB3	1.59	0.67
1:k:685:ARG:HH21	1:k:689:GLU:HG3	1.60	0.67
1:A:681:GLU:OE1	1:B:675:HIS:NE2	2.25	0.67
1:E:709:LEU:HA	1:E:712:MET:HG3	1.75	0.67
1:G:597:ARG:HH22	1:H:585:SER:HB3	1.59	0.67
1:G:685:ARG:HH21	1:G:689:GLU:HG3	1.60	0.67
1:K:177:ARG:NH1	1:K:178:ALA:O	2.28	0.67
1:R:177:ARG:NH1	1:R:178:ALA:O	2.28	0.67
1:T:516:LEU:HD22	1:T:561:LEU:HD21	1.77	0.67
1:T:597:ARG:HH22	1:U:585:SER:HB3	1.59	0.67
1:U:177:ARG:NH1	1:U:178:ALA:O	2.28	0.67
1:a:709:LEU:HA	1:a:712:MET:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:177:ARG:NH1	1:d:178:ALA:O	2.28	0.67
1:i:177:ARG:NH1	1:i:178:ALA:O	2.28	0.67
1:m:177:ARG:NH1	1:m:178:ALA:O	2.28	0.67
1:A:785:GLN:O	1:m:794:LYS:NZ	2.28	0.67
1:B:382:LEU:H	1:B:405:THR:HG22	1.59	0.67
1:E:779:LEU:HD11	1:F:777:LEU:HD21	1.75	0.67
1:G:794:LYS:NZ	1:H:785:GLN:O	2.28	0.67
1:H:384:GLN:HB2	1:I:474:ARG:HD2	1.76	0.67
1:I:685:ARG:HH21	1:I:689:GLU:HG3	1.60	0.67
1:N:502:ALA:O	1:N:507:ARG:N	2.27	0.67
1:P:177:ARG:NH1	1:P:178:ALA:O	2.28	0.67
1:P:597:ARG:HH22	1:Q:585:SER:HB3	1.59	0.67
1:U:794:LYS:NZ	1:V:785:GLN:O	2.28	0.67
1:Y:177:ARG:NH1	1:Y:178:ALA:O	2.28	0.67
1:Y:794:LYS:NZ	1:Z:785:GLN:O	2.28	0.67
1:a:516:LEU:HD22	1:a:561:LEU:HD21	1.77	0.67
1:a:685:ARG:HH21	1:a:689:GLU:HG3	1.60	0.67
1:c:382:LEU:H	1:c:405:THR:HG22	1.59	0.67
1:c:685:ARG:HH21	1:c:689:GLU:HG3	1.60	0.67
1:i:516:LEU:HD22	1:i:561:LEU:HD21	1.77	0.67
1:l:794:LYS:NZ	1:m:785:GLN:O	2.28	0.67
1:C:597:ARG:HH22	1:D:585:SER:HB3	1.59	0.67
1:E:502:ALA:O	1:E:507:ARG:N	2.27	0.67
1:G:177:ARG:NH1	1:G:178:ALA:O	2.28	0.67
1:S:384:GLN:HB2	1:T:474:ARG:HD2	1.76	0.67
1:W:177:ARG:NH1	1:W:178:ALA:O	2.28	0.67
1:X:794:LYS:NZ	1:Y:785:GLN:O	2.28	0.67
1:Y:382:LEU:H	1:Y:405:THR:HG22	1.59	0.67
1:Y:384:GLN:HB2	1:Z:474:ARG:HD2	1.76	0.67
1:f:382:LEU:H	1:f:405:THR:HG22	1.59	0.67
1:f:502:ALA:O	1:f:507:ARG:N	2.27	0.67
1:f:685:ARG:HH21	1:f:689:GLU:HG3	1.60	0.67
1:h:516:LEU:HD22	1:h:561:LEU:HD21	1.77	0.67
1:l:597:ARG:HH22	1:m:585:SER:HB3	1.59	0.67
1:l:685:ARG:HH21	1:l:689:GLU:HG3	1.60	0.67
1:A:384:GLN:HB2	1:B:474:ARG:HD2	1.76	0.67
1:A:474:ARG:HD2	1:m:384:GLN:HB2	1.76	0.67
1:A:794:LYS:NZ	1:B:785:GLN:O	2.28	0.67
1:B:516:LEU:HD22	1:B:561:LEU:HD21	1.77	0.67
1:D:597:ARG:HH22	1:E:585:SER:HB3	1.59	0.67
1:F:685:ARG:HH21	1:F:689:GLU:HG3	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:502:ALA:O	1:H:507:ARG:N	2.27	0.67
1:H:685:ARG:HH21	1:H:689:GLU:HG3	1.60	0.67
1:I:779:LEU:HD11	1:J:777:LEU:HD21	1.75	0.67
1:L:382:LEU:H	1:L:405:THR:HG22	1.59	0.67
1:M:177:ARG:NH1	1:M:178:ALA:O	2.28	0.67
1:P:794:LYS:NZ	1:Q:785:GLN:O	2.28	0.67
1:V:177:ARG:NH1	1:V:178:ALA:O	2.28	0.67
1:X:382:LEU:H	1:X:405:THR:HG22	1.59	0.67
1:Z:685:ARG:HH21	1:Z:689:GLU:HG3	1.60	0.67
1:a:177:ARG:NH1	1:a:178:ALA:O	2.28	0.67
1:c:794:LYS:NZ	1:d:785:GLN:O	2.28	0.67
1:g:384:GLN:HB2	1:h:474:ARG:HD2	1.76	0.67
1:g:502:ALA:O	1:g:507:ARG:N	2.27	0.67
1:j:597:ARG:HH22	1:k:585:SER:HB3	1.59	0.67
1:k:709:LEU:HA	1:k:712:MET:HG3	1.75	0.67
1:A:516:LEU:HD22	1:A:561:LEU:HD21	1.77	0.66
1:B:384:GLN:HB2	1:C:474:ARG:HD2	1.76	0.66
1:I:502:ALA:O	1:I:507:ARG:N	2.27	0.66
1:J:382:LEU:H	1:J:405:THR:HG22	1.59	0.66
1:K:597:ARG:HH22	1:L:585:SER:HB3	1.59	0.66
1:P:516:LEU:HD22	1:P:561:LEU:HD21	1.77	0.66
1:Q:685:ARG:HH21	1:Q:689:GLU:HG3	1.60	0.66
1:U:516:LEU:HD22	1:U:561:LEU:HD21	1.77	0.66
1:V:794:LYS:NZ	1:W:785:GLN:O	2.28	0.66
1:Y:597:ARG:HH22	1:Z:585:SER:HB3	1.59	0.66
1:Z:384:GLN:HB2	1:a:474:ARG:HD2	1.76	0.66
1:a:382:LEU:H	1:a:405:THR:HG22	1.59	0.66
1:f:516:LEU:HD22	1:f:561:LEU:HD21	1.77	0.66
1:g:177:ARG:NH1	1:g:178:ALA:O	2.28	0.66
1:g:516:LEU:HD22	1:g:561:LEU:HD21	1.77	0.66
1:i:502:ALA:O	1:i:507:ARG:N	2.27	0.66
1:j:794:LYS:NZ	1:k:785:GLN:O	2.28	0.66
1:l:177:ARG:NH1	1:l:178:ALA:O	2.28	0.66
1:m:382:LEU:H	1:m:405:THR:HG22	1.59	0.66
1:B:709:LEU:HA	1:B:712:MET:HG3	1.75	0.66
1:C:177:ARG:NH1	1:C:178:ALA:O	2.28	0.66
1:D:681:GLU:OE1	1:E:675:HIS:NE2	2.24	0.66
1:F:516:LEU:HD22	1:F:561:LEU:HD21	1.77	0.66
1:H:516:LEU:HD22	1:H:561:LEU:HD21	1.77	0.66
1:I:516:LEU:HD22	1:I:561:LEU:HD21	1.77	0.66
1:R:382:LEU:H	1:R:405:THR:HG22	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:681:GLU:OE1	1:S:675:HIS:NE2	2.24	0.66
1:T:794:LYS:NZ	1:U:785:GLN:O	2.28	0.66
1:U:382:LEU:H	1:U:405:THR:HG22	1.59	0.66
1:U:597:ARG:HH22	1:V:585:SER:HB3	1.59	0.66
1:W:681:GLU:OE1	1:X:675:HIS:NE2	2.25	0.66
1:X:516:LEU:HD22	1:X:561:LEU:HD21	1.77	0.66
1:c:597:ARG:HH22	1:d:585:SER:HB3	1.59	0.66
1:d:502:ALA:O	1:d:507:ARG:N	2.27	0.66
1:g:794:LYS:NZ	1:h:785:GLN:O	2.28	0.66
1:i:382:LEU:H	1:i:405:THR:HG22	1.59	0.66
1:i:597:ARG:HH22	1:j:585:SER:HB3	1.59	0.66
1:j:685:ARG:HH21	1:j:689:GLU:HG3	1.60	0.66
1:A:597:ARG:HH22	1:B:585:SER:HB3	1.59	0.66
1:M:516:LEU:HD22	1:M:561:LEU:HD21	1.77	0.66
1:Q:794:LYS:NZ	1:R:785:GLN:O	2.28	0.66
1:S:597:ARG:HH22	1:T:585:SER:HB3	1.59	0.66
1:Y:685:ARG:HH21	1:Y:689:GLU:HG3	1.60	0.66
1:Z:597:ARG:HH22	1:a:585:SER:HB3	1.59	0.66
1:b:516:LEU:HD22	1:b:561:LEU:HD21	1.77	0.66
1:d:384:GLN:HB2	1:e:474:ARG:HD2	1.76	0.66
1:e:382:LEU:H	1:e:405:THR:HG22	1.59	0.66
1:g:709:LEU:HA	1:g:712:MET:HG3	1.75	0.66
1:k:382:LEU:H	1:k:405:THR:HG22	1.59	0.66
1:k:502:ALA:O	1:k:507:ARG:N	2.27	0.66
1:k:516:LEU:HD22	1:k:561:LEU:HD21	1.77	0.66
1:B:177:ARG:NH1	1:B:178:ALA:O	2.28	0.66
1:F:382:LEU:H	1:F:405:THR:HG22	1.59	0.66
1:F:779:LEU:HD11	1:G:777:LEU:HD21	1.75	0.66
1:H:177:ARG:NH1	1:H:178:ALA:O	2.28	0.66
1:H:794:LYS:NZ	1:I:785:GLN:O	2.28	0.66
1:J:685:ARG:HH21	1:J:689:GLU:HG3	1.60	0.66
1:O:681:GLU:OE1	1:P:675:HIS:NE2	2.25	0.66
1:P:685:ARG:HH21	1:P:689:GLU:HG3	1.60	0.66
1:Z:177:ARG:NH1	1:Z:178:ALA:O	2.28	0.66
1:a:502:ALA:O	1:a:507:ARG:N	2.27	0.66
1:e:685:ARG:HH21	1:e:689:GLU:HG3	1.60	0.66
1:e:794:LYS:NZ	1:f:785:GLN:O	2.28	0.66
1:H:681:GLU:OE1	1:I:675:HIS:NE2	2.25	0.66
1:H:749:GLN:NE2	1:I:741:VAL:HG22	2.06	0.66
1:J:177:ARG:NH1	1:J:178:ALA:O	2.28	0.66
1:L:681:GLU:OE1	1:M:675:HIS:NE2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:794:LYS:NZ	1:N:785:GLN:O	2.28	0.66
1:N:681:GLU:OE1	1:O:675:HIS:NE2	2.24	0.66
1:N:794:LYS:NZ	1:O:785:GLN:O	2.28	0.66
1:O:516:LEU:HD22	1:O:561:LEU:HD21	1.77	0.66
1:Q:177:ARG:NH1	1:Q:178:ALA:O	2.28	0.66
1:R:685:ARG:HH21	1:R:689:GLU:HG3	1.60	0.66
1:d:685:ARG:HH21	1:d:689:GLU:HG3	1.60	0.66
1:f:177:ARG:NH1	1:f:178:ALA:O	2.28	0.66
1:g:685:ARG:HH21	1:g:689:GLU:HG3	1.60	0.66
1:E:685:ARG:HH21	1:E:689:GLU:HG3	1.60	0.66
1:J:516:LEU:HD22	1:J:561:LEU:HD21	1.77	0.66
1:J:794:LYS:NZ	1:K:785:GLN:O	2.28	0.66
1:K:384:GLN:HB2	1:L:474:ARG:HD2	1.76	0.66
1:M:384:GLN:HB2	1:N:474:ARG:HD2	1.76	0.66
1:N:382:LEU:H	1:N:405:THR:HG22	1.59	0.66
1:O:382:LEU:H	1:O:405:THR:HG22	1.59	0.66
1:S:502:ALA:O	1:S:507:ARG:N	2.27	0.66
1:X:681:GLU:OE1	1:Y:675:HIS:NE2	2.25	0.66
1:e:516:LEU:HD22	1:e:561:LEU:HD21	1.77	0.66
1:j:516:LEU:HD22	1:j:561:LEU:HD21	1.77	0.66
1:m:685:ARG:HH21	1:m:689:GLU:HG3	1.60	0.66
1:E:384:GLN:HB2	1:F:474:ARG:HD2	1.76	0.66
1:N:177:ARG:NH1	1:N:178:ALA:O	2.28	0.66
1:R:794:LYS:NZ	1:S:785:GLN:O	2.28	0.66
1:f:384:GLN:HB2	1:g:474:ARG:HD2	1.76	0.66
1:C:516:LEU:HD22	1:C:561:LEU:HD21	1.77	0.66
1:C:685:ARG:HH21	1:C:689:GLU:HG3	1.60	0.66
1:D:685:ARG:HH21	1:D:689:GLU:HG3	1.60	0.66
1:E:382:LEU:H	1:E:405:THR:HG22	1.59	0.66
1:H:382:LEU:H	1:H:405:THR:HG22	1.59	0.66
1:H:597:ARG:HH22	1:I:585:SER:HB3	1.59	0.66
1:K:794:LYS:NZ	1:L:785:GLN:O	2.28	0.66
1:O:56:ARG:HH22	1:P:156:GLU:HA	1.61	0.66
1:V:384:GLN:HB2	1:W:474:ARG:HD2	1.76	0.66
1:W:597:ARG:HH22	1:X:585:SER:HB3	1.59	0.66
1:X:56:ARG:HH22	1:Y:156:GLU:HA	1.61	0.66
1:h:597:ARG:HH22	1:i:585:SER:HB3	1.59	0.66
1:h:681:GLU:OE1	1:i:675:HIS:NE2	2.25	0.66
1:j:177:ARG:NH1	1:j:178:ALA:O	2.28	0.66
1:L:516:LEU:HD22	1:L:561:LEU:HD21	1.77	0.66
1:e:384:GLN:HB2	1:f:474:ARG:HD2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:GLU:HA	1:m:56:ARG:HH22	1.61	0.66
1:L:597:ARG:HH22	1:M:585:SER:HB3	1.59	0.66
1:R:56:ARG:HH22	1:S:156:GLU:HA	1.61	0.66
1:S:56:ARG:HH22	1:T:156:GLU:HA	1.61	0.66
1:S:516:LEU:HD22	1:S:561:LEU:HD21	1.77	0.66
1:S:685:ARG:HH21	1:S:689:GLU:HG3	1.60	0.66
1:W:56:ARG:HH22	1:X:156:GLU:HA	1.61	0.66
1:Z:516:LEU:HD22	1:Z:561:LEU:HD21	1.77	0.66
1:b:56:ARG:HH22	1:c:156:GLU:HA	1.61	0.66
1:d:516:LEU:HD22	1:d:561:LEU:HD21	1.77	0.66
1:e:177:ARG:NH1	1:e:178:ALA:O	2.28	0.66
1:i:685:ARG:HH21	1:i:689:GLU:HG3	1.60	0.66
1:k:384:GLN:HB2	1:l:474:ARG:HD2	1.76	0.66
1:D:794:LYS:NZ	1:E:785:GLN:O	2.28	0.65
1:I:177:ARG:NH1	1:I:178:ALA:O	2.28	0.65
1:N:56:ARG:HH22	1:O:156:GLU:HA	1.61	0.65
1:P:502:ALA:O	1:P:507:ARG:N	2.27	0.65
1:Y:516:LEU:HD22	1:Y:561:LEU:HD21	1.77	0.65
1:F:384:GLN:HB2	1:G:474:ARG:HD2	1.76	0.65
1:G:414:LEU:HD13	1:G:455:THR:HG21	1.79	0.65
1:I:56:ARG:HH22	1:J:156:GLU:HA	1.61	0.65
1:I:382:LEU:H	1:I:405:THR:HG22	1.59	0.65
1:O:414:LEU:HD13	1:O:455:THR:HG21	1.79	0.65
1:O:685:ARG:HH21	1:O:689:GLU:HG3	1.60	0.65
1:Q:56:ARG:HH22	1:R:156:GLU:HA	1.61	0.65
1:T:177:ARG:NH1	1:T:178:ALA:O	2.28	0.65
1:Y:681:GLU:OE1	1:Z:675:HIS:NE2	2.25	0.65
1:a:56:ARG:HH22	1:b:156:GLU:HA	1.61	0.65
1:a:66:SER:HB3	1:a:84:ARG:HG3	1.79	0.65
1:h:56:ARG:HH22	1:i:156:GLU:HA	1.61	0.65
1:h:414:LEU:HD13	1:h:455:THR:HG21	1.79	0.65
1:i:56:ARG:HH22	1:j:156:GLU:HA	1.61	0.65
1:l:516:LEU:HD22	1:l:561:LEU:HD21	1.77	0.65
1:D:516:LEU:HD22	1:D:561:LEU:HD21	1.77	0.65
1:G:382:LEU:H	1:G:405:THR:HG22	1.59	0.65
1:K:66:SER:HB3	1:K:84:ARG:HG3	1.79	0.65
1:L:56:ARG:HH22	1:M:156:GLU:HA	1.61	0.65
1:O:66:SER:HB3	1:O:84:ARG:HG3	1.79	0.65
1:V:414:LEU:HD13	1:V:455:THR:HG21	1.79	0.65
1:d:56:ARG:HH22	1:e:156:GLU:HA	1.61	0.65
1:h:685:ARG:HH21	1:h:689:GLU:HG3	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:66:SER:HB3	1:m:84:ARG:HG3	1.79	0.65
1:A:414:LEU:HD13	1:A:455:THR:HG21	1.79	0.65
1:A:685:ARG:HH21	1:A:689:GLU:HG3	1.60	0.65
1:D:414:LEU:HD13	1:D:455:THR:HG21	1.79	0.65
1:E:56:ARG:HH22	1:F:156:GLU:HA	1.61	0.65
1:H:414:LEU:HD13	1:H:455:THR:HG21	1.79	0.65
1:J:502:ALA:O	1:J:507:ARG:N	2.27	0.65
1:K:681:GLU:OE1	1:L:675:HIS:NE2	2.25	0.65
1:M:502:ALA:O	1:M:507:ARG:N	2.27	0.65
1:U:414:LEU:HD13	1:U:455:THR:HG21	1.79	0.65
1:Z:414:LEU:HD13	1:Z:455:THR:HG21	1.79	0.65
1:c:414:LEU:HD13	1:c:455:THR:HG21	1.79	0.65
1:c:516:LEU:HD22	1:c:561:LEU:HD21	1.77	0.65
1:m:516:LEU:HD22	1:m:561:LEU:HD21	1.77	0.65
1:E:516:LEU:HD22	1:E:561:LEU:HD21	1.77	0.65
1:J:56:ARG:HH22	1:K:156:GLU:HA	1.61	0.65
1:M:414:LEU:HD13	1:M:455:THR:HG21	1.79	0.65
1:M:685:ARG:HH21	1:M:689:GLU:HG3	1.60	0.65
1:P:56:ARG:HH22	1:Q:156:GLU:HA	1.61	0.65
1:U:685:ARG:HH21	1:U:689:GLU:HG3	1.60	0.65
1:V:66:SER:HB3	1:V:84:ARG:HG3	1.79	0.65
1:X:685:ARG:HH21	1:X:689:GLU:HG3	1.60	0.65
1:a:506:LYS:HZ3	1:a:523:PHE:HB3	1.62	0.65
1:d:66:SER:HB3	1:d:84:ARG:HG3	1.79	0.65
1:f:56:ARG:HH22	1:g:156:GLU:HA	1.61	0.65
1:h:66:SER:HB3	1:h:84:ARG:HG3	1.79	0.65
1:j:414:LEU:HD13	1:j:455:THR:HG21	1.79	0.65
1:m:414:LEU:HD13	1:m:455:THR:HG21	1.79	0.65
1:B:56:ARG:HH22	1:C:156:GLU:HA	1.61	0.65
1:B:685:ARG:HH21	1:B:689:GLU:HG3	1.60	0.65
1:R:384:GLN:HB2	1:S:474:ARG:HD2	1.76	0.65
1:T:685:ARG:HH21	1:T:689:GLU:HG3	1.60	0.65
1:V:685:ARG:HH21	1:V:689:GLU:HG3	1.60	0.65
1:C:56:ARG:HH22	1:D:156:GLU:HA	1.61	0.65
1:F:56:ARG:HH22	1:G:156:GLU:HA	1.61	0.65
1:G:56:ARG:HH22	1:H:156:GLU:HA	1.61	0.65
1:K:685:ARG:HH21	1:K:689:GLU:HG3	1.60	0.65
1:N:685:ARG:HH21	1:N:689:GLU:HG3	1.60	0.65
1:W:66:SER:HB3	1:W:84:ARG:HG3	1.79	0.65
1:b:414:LEU:HD13	1:b:455:THR:HG21	1.79	0.65
1:f:506:LYS:HZ3	1:f:523:PHE:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:66:SER:HB3	1:i:84:ARG:HG3	1.79	0.65
1:j:56:ARG:HH22	1:k:156:GLU:HA	1.61	0.65
1:l:56:ARG:HH22	1:m:156:GLU:HA	1.61	0.65
1:A:56:ARG:HH22	1:B:156:GLU:HA	1.61	0.65
1:I:66:SER:HB3	1:I:84:ARG:HG3	1.79	0.65
1:N:516:LEU:HD22	1:N:561:LEU:HD21	1.77	0.65
1:U:56:ARG:HH22	1:V:156:GLU:HA	1.61	0.65
1:W:516:LEU:HD22	1:W:561:LEU:HD21	1.77	0.65
1:f:414:LEU:HD13	1:f:455:THR:HG21	1.79	0.65
1:g:56:ARG:HH22	1:h:156:GLU:HA	1.61	0.65
1:k:56:ARG:HH22	1:l:156:GLU:HA	1.61	0.65
1:H:66:SER:HB3	1:H:84:ARG:HG3	1.79	0.65
1:L:685:ARG:HH21	1:L:689:GLU:HG3	1.60	0.65
1:P:66:SER:HB3	1:P:84:ARG:HG3	1.79	0.65
1:Q:414:LEU:HD13	1:Q:455:THR:HG21	1.79	0.65
1:Q:516:LEU:HD22	1:Q:561:LEU:HD21	1.77	0.65
1:R:516:LEU:HD22	1:R:561:LEU:HD21	1.77	0.65
1:f:681:GLU:OE1	1:g:675:HIS:NE2	2.25	0.65
1:D:56:ARG:HH22	1:E:156:GLU:HA	1.61	0.65
1:G:516:LEU:HD22	1:G:561:LEU:HD21	1.77	0.65
1:I:414:LEU:HD13	1:I:455:THR:HG21	1.79	0.65
1:Q:681:GLU:OE1	1:R:675:HIS:NE2	2.25	0.65
1:V:516:LEU:HD22	1:V:561:LEU:HD21	1.77	0.65
1:l:66:SER:HB3	1:l:84:ARG:HG3	1.79	0.65
1:B:66:SER:HB3	1:B:84:ARG:HG3	1.79	0.64
1:K:516:LEU:HD22	1:K:561:LEU:HD21	1.77	0.64
1:S:66:SER:HB3	1:S:84:ARG:HG3	1.79	0.64
1:W:685:ARG:HH21	1:W:689:GLU:HG3	1.60	0.64
1:g:66:SER:HB3	1:g:84:ARG:HG3	1.79	0.64
1:C:66:SER:HB3	1:C:84:ARG:HG3	1.79	0.64
1:C:414:LEU:HD13	1:C:455:THR:HG21	1.79	0.64
1:H:56:ARG:HH22	1:I:156:GLU:HA	1.61	0.64
1:N:66:SER:HB3	1:N:84:ARG:HG3	1.79	0.64
1:W:414:LEU:HD13	1:W:455:THR:HG21	1.79	0.64
1:Z:66:SER:HB3	1:Z:84:ARG:HG3	1.79	0.64
1:A:675:HIS:NE2	1:m:681:GLU:OE1	2.25	0.64
1:C:681:GLU:OE1	1:D:675:HIS:NE2	2.25	0.64
1:M:56:ARG:HH22	1:N:156:GLU:HA	1.61	0.64
1:T:414:LEU:HD13	1:T:455:THR:HG21	1.79	0.64
1:X:414:LEU:HD13	1:X:455:THR:HG21	1.79	0.64
1:d:414:LEU:HD13	1:d:455:THR:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:414:LEU:HD13	1:g:455:THR:HG21	1.79	0.64
1:F:414:LEU:HD13	1:F:455:THR:HG21	1.79	0.64
1:K:414:LEU:HD13	1:K:455:THR:HG21	1.79	0.64
1:P:414:LEU:HD13	1:P:455:THR:HG21	1.79	0.64
1:T:66:SER:HB3	1:T:84:ARG:HG3	1.79	0.64
1:c:681:GLU:OE1	1:d:675:HIS:NE2	2.25	0.64
1:h:506:LYS:HZ3	1:h:523:PHE:HB3	1.62	0.64
1:i:681:GLU:OE1	1:j:675:HIS:NE2	2.25	0.64
1:l:414:LEU:HD13	1:l:455:THR:HG21	1.79	0.64
1:E:66:SER:HB3	1:E:84:ARG:HG3	1.79	0.64
1:Z:56:ARG:HH22	1:a:156:GLU:HA	1.61	0.64
1:e:56:ARG:HH22	1:f:156:GLU:HA	1.62	0.64
1:J:66:SER:HB3	1:J:84:ARG:HG3	1.79	0.64
1:L:66:SER:HB3	1:L:84:ARG:HG3	1.79	0.64
1:R:414:LEU:HD13	1:R:455:THR:HG21	1.79	0.64
1:i:742:LEU:HB3	1:j:734:ARG:NH2	2.13	0.64
1:k:681:GLU:OE1	1:l:675:HIS:NE2	2.25	0.64
1:A:739:GLY:O	1:A:743:GLN:HB2	1.98	0.64
1:K:739:GLY:O	1:K:743:GLN:HB2	1.98	0.64
1:Q:742:LEU:HB3	1:R:734:ARG:NH2	2.13	0.64
1:S:742:LEU:HB3	1:T:734:ARG:NH2	2.13	0.64
1:X:742:LEU:HB3	1:Y:734:ARG:NH2	2.13	0.64
1:d:655:GLN:HG2	1:e:649:ARG:HH22	1.63	0.64
1:g:655:GLN:HG2	1:h:649:ARG:HH22	1.63	0.64
1:j:742:LEU:HB3	1:k:734:ARG:NH2	2.13	0.64
1:A:655:GLN:HG2	1:B:649:ARG:HH22	1.63	0.64
1:C:655:GLN:HG2	1:D:649:ARG:HH22	1.63	0.64
1:E:742:LEU:HB3	1:F:734:ARG:NH2	2.13	0.64
1:F:66:SER:HB3	1:F:84:ARG:HG3	1.79	0.64
1:F:655:GLN:HG2	1:G:649:ARG:HH22	1.63	0.64
1:K:742:LEU:HB3	1:L:734:ARG:NH2	2.13	0.64
1:L:655:GLN:HG2	1:M:649:ARG:HH22	1.63	0.64
1:T:739:GLY:O	1:T:743:GLN:HB2	1.98	0.64
1:V:56:ARG:HH22	1:W:156:GLU:HA	1.61	0.64
1:a:655:GLN:HG2	1:b:649:ARG:HH22	1.63	0.64
1:b:66:SER:HB3	1:b:84:ARG:HG3	1.79	0.64
1:c:66:SER:HB3	1:c:84:ARG:HG3	1.79	0.64
1:c:739:GLY:O	1:c:743:GLN:HB2	1.98	0.64
1:e:66:SER:HB3	1:e:84:ARG:HG3	1.79	0.64
1:i:414:LEU:HD13	1:i:455:THR:HG21	1.79	0.64
1:B:414:LEU:HD13	1:B:455:THR:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:742:LEU:HB3	1:I:734:ARG:NH2	2.13	0.64
1:I:506:LYS:HZ3	1:I:523:PHE:HB3	1.61	0.64
1:L:739:GLY:O	1:L:743:GLN:HB2	1.98	0.64
1:P:739:GLY:O	1:P:743:GLN:HB2	1.98	0.64
1:Q:655:GLN:HG2	1:R:649:ARG:HH22	1.63	0.64
1:R:655:GLN:HG2	1:S:649:ARG:HH22	1.63	0.64
1:R:742:LEU:HB3	1:S:734:ARG:NH2	2.13	0.64
1:T:56:ARG:HH22	1:U:156:GLU:HA	1.61	0.64
1:W:742:LEU:HB3	1:X:734:ARG:NH2	2.13	0.64
1:Y:56:ARG:HH22	1:Z:156:GLU:HA	1.61	0.64
1:b:742:LEU:HB3	1:c:734:ARG:NH2	2.13	0.64
1:g:739:GLY:O	1:g:743:GLN:HB2	1.98	0.64
1:g:742:LEU:HB3	1:h:734:ARG:NH2	2.13	0.64
1:A:66:SER:HB3	1:A:84:ARG:HG3	1.79	0.64
1:C:742:LEU:HB3	1:D:734:ARG:NH2	2.13	0.64
1:I:655:GLN:HG2	1:J:649:ARG:HH22	1.63	0.64
1:I:739:GLY:O	1:I:743:GLN:HB2	1.98	0.64
1:J:739:GLY:O	1:J:743:GLN:HB2	1.98	0.64
1:L:414:LEU:HD13	1:L:455:THR:HG21	1.79	0.64
1:N:655:GLN:HG2	1:O:649:ARG:HH22	1.63	0.64
1:O:742:LEU:HB3	1:P:734:ARG:NH2	2.13	0.64
1:V:739:GLY:O	1:V:743:GLN:HB2	1.98	0.64
1:V:742:LEU:HB3	1:W:734:ARG:NH2	2.13	0.64
1:W:790:VAL:HG21	1:X:785:GLN:HA	1.80	0.64
1:X:655:GLN:HG2	1:Y:649:ARG:HH22	1.63	0.64
1:Y:66:SER:HB3	1:Y:84:ARG:HG3	1.79	0.64
1:Z:742:LEU:HB3	1:a:734:ARG:NH2	2.13	0.64
1:b:506:LYS:HZ3	1:b:523:PHE:HB3	1.63	0.64
1:b:655:GLN:HG2	1:c:649:ARG:HH22	1.63	0.64
1:b:739:GLY:O	1:b:743:GLN:HB2	1.98	0.64
1:c:56:ARG:HH22	1:d:156:GLU:HA	1.61	0.64
1:f:739:GLY:O	1:f:743:GLN:HB2	1.98	0.64
1:A:649:ARG:HH22	1:m:655:GLN:HG2	1.63	0.63
1:A:790:VAL:HG21	1:B:785:GLN:HA	1.80	0.63
1:E:414:LEU:HD13	1:E:455:THR:HG21	1.79	0.63
1:E:739:GLY:O	1:E:743:GLN:HB2	1.98	0.63
1:H:790:VAL:HG21	1:I:785:GLN:HA	1.81	0.63
1:N:414:LEU:HD13	1:N:455:THR:HG21	1.79	0.63
1:Q:739:GLY:O	1:Q:743:GLN:HB2	1.98	0.63
1:V:655:GLN:HG2	1:W:649:ARG:HH22	1.63	0.63
1:d:742:LEU:HB3	1:e:734:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:742:LEU:HB3	1:g:734:ARG:NH2	2.13	0.63
1:i:790:VAL:HG21	1:j:785:GLN:HA	1.81	0.63
1:j:655:GLN:HG2	1:k:649:ARG:HH22	1.63	0.63
1:j:739:GLY:O	1:j:743:GLN:HB2	1.98	0.63
1:G:655:GLN:HG2	1:H:649:ARG:HH22	1.63	0.63
1:R:66:SER:HB3	1:R:84:ARG:HG3	1.79	0.63
1:W:655:GLN:HG2	1:X:649:ARG:HH22	1.63	0.63
1:Y:414:LEU:HD13	1:Y:455:THR:HG21	1.79	0.63
1:Y:742:LEU:HB3	1:Z:734:ARG:NH2	2.13	0.63
1:a:790:VAL:HG21	1:b:785:GLN:HA	1.80	0.63
1:c:742:LEU:HB3	1:d:734:ARG:NH2	2.13	0.63
1:d:506:LYS:HZ3	1:d:523:PHE:HB3	1.63	0.63
1:e:790:VAL:HG21	1:f:785:GLN:HA	1.80	0.63
1:g:790:VAL:HG21	1:h:785:GLN:HA	1.81	0.63
1:i:655:GLN:HG2	1:j:649:ARG:HH22	1.63	0.63
1:i:739:GLY:O	1:i:743:GLN:HB2	1.98	0.63
1:A:742:LEU:HB3	1:B:734:ARG:NH2	2.13	0.63
1:B:742:LEU:HB3	1:C:734:ARG:NH2	2.13	0.63
1:E:790:VAL:HG21	1:F:785:GLN:HA	1.81	0.63
1:I:681:GLU:OE1	1:J:675:HIS:NE2	2.25	0.63
1:J:414:LEU:HD13	1:J:455:THR:HG21	1.79	0.63
1:M:66:SER:HB3	1:M:84:ARG:HG3	1.79	0.63
1:M:742:LEU:HB3	1:N:734:ARG:NH2	2.13	0.63
1:N:790:VAL:HG21	1:O:785:GLN:HA	1.81	0.63
1:Q:66:SER:HB3	1:Q:84:ARG:HG3	1.79	0.63
1:R:506:LYS:HZ3	1:R:523:PHE:HB3	1.61	0.63
1:U:681:GLU:OE1	1:V:675:HIS:NE2	2.25	0.63
1:W:739:GLY:O	1:W:743:GLN:HB2	1.98	0.63
1:a:742:LEU:HB3	1:b:734:ARG:NH2	2.13	0.63
1:f:790:VAL:HG21	1:g:785:GLN:HA	1.80	0.63
1:k:66:SER:HB3	1:k:84:ARG:HG3	1.79	0.63
1:k:655:GLN:HG2	1:l:649:ARG:HH22	1.63	0.63
1:B:790:VAL:HG21	1:C:785:GLN:HA	1.81	0.63
1:D:739:GLY:O	1:D:743:GLN:HB2	1.98	0.63
1:I:790:VAL:HG21	1:J:785:GLN:HA	1.80	0.63
1:R:716:VAL:HG21	1:S:708:GLU:HB3	1.81	0.63
1:S:414:LEU:HD13	1:S:455:THR:HG21	1.79	0.63
1:T:506:LYS:HZ3	1:T:523:PHE:HB3	1.63	0.63
1:T:742:LEU:HB3	1:U:734:ARG:NH2	2.13	0.63
1:X:66:SER:HB3	1:X:84:ARG:HG3	1.79	0.63
1:b:681:GLU:OE1	1:c:675:HIS:NE2	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:739:GLY:O	1:e:743:GLN:HB2	1.98	0.63
1:f:716:VAL:HG21	1:g:708:GLU:HB3	1.81	0.63
1:j:790:VAL:HG21	1:k:785:GLN:HA	1.80	0.63
1:B:655:GLN:HG2	1:C:649:ARG:HH22	1.63	0.63
1:F:716:VAL:HG21	1:G:708:GLU:HB3	1.81	0.63
1:J:655:GLN:HG2	1:K:649:ARG:HH22	1.63	0.63
1:J:742:LEU:HB3	1:K:734:ARG:NH2	2.13	0.63
1:M:739:GLY:O	1:M:743:GLN:HB2	1.98	0.63
1:M:790:VAL:HG21	1:N:785:GLN:HA	1.80	0.63
1:S:716:VAL:HG21	1:T:708:GLU:HB3	1.81	0.63
1:S:739:GLY:O	1:S:743:GLN:HB2	1.98	0.63
1:S:790:VAL:HG21	1:T:785:GLN:HA	1.81	0.63
1:U:655:GLN:HG2	1:V:649:ARG:HH22	1.63	0.63
1:b:716:VAL:HG21	1:c:708:GLU:HB3	1.81	0.63
1:e:742:LEU:HB3	1:f:734:ARG:NH2	2.13	0.63
1:D:742:LEU:HB3	1:E:734:ARG:NH2	2.13	0.63
1:D:790:VAL:HG21	1:E:785:GLN:HA	1.80	0.63
1:I:716:VAL:HG21	1:J:708:GLU:HB3	1.81	0.63
1:I:742:LEU:HB3	1:J:734:ARG:NH2	2.13	0.63
1:K:655:GLN:HG2	1:L:649:ARG:HH22	1.63	0.63
1:K:746:LEU:HD22	1:L:737:GLY:HA3	1.81	0.63
1:O:655:GLN:HG2	1:P:649:ARG:HH22	1.63	0.63
1:Q:716:VAL:HG21	1:R:708:GLU:HB3	1.81	0.63
1:T:790:VAL:HG21	1:U:785:GLN:HA	1.81	0.63
1:U:66:SER:HB3	1:U:84:ARG:HG3	1.79	0.63
1:Z:790:VAL:HG21	1:a:785:GLN:HA	1.81	0.63
1:e:655:GLN:HG2	1:f:649:ARG:HH22	1.63	0.63
1:h:790:VAL:HG21	1:i:785:GLN:HA	1.81	0.63
1:j:66:SER:HB3	1:j:84:ARG:HG3	1.79	0.63
1:F:506:LYS:HZ3	1:F:523:PHE:HB3	1.62	0.63
1:H:739:GLY:O	1:H:743:GLN:HB2	1.98	0.63
1:L:716:VAL:HG21	1:M:708:GLU:HB3	1.81	0.63
1:O:746:LEU:HD22	1:P:737:GLY:HA3	1.81	0.63
1:T:716:VAL:HG21	1:U:708:GLU:HB3	1.81	0.63
1:U:716:VAL:HG21	1:V:708:GLU:HB3	1.81	0.63
1:V:746:LEU:HD22	1:W:737:GLY:HA3	1.81	0.63
1:c:655:GLN:HG2	1:d:649:ARG:HH22	1.63	0.63
1:d:739:GLY:O	1:d:743:GLN:HB2	1.98	0.63
1:f:655:GLN:HG2	1:g:649:ARG:HH22	1.63	0.63
1:g:746:LEU:HD22	1:h:737:GLY:HA3	1.81	0.63
1:k:742:LEU:HB3	1:l:734:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:739:GLY:O	1:m:743:GLN:HB2	1.98	0.63
1:A:746:LEU:HD22	1:B:737:GLY:HA3	1.81	0.63
1:B:335:LYS:NZ	1:B:356:CYS:SG	2.71	0.63
1:G:66:SER:HB3	1:G:84:ARG:HG3	1.79	0.63
1:P:742:LEU:HB3	1:Q:734:ARG:NH2	2.13	0.63
1:S:681:GLU:OE1	1:T:675:HIS:NE2	2.25	0.63
1:a:414:LEU:HD13	1:a:455:THR:HG21	1.79	0.63
1:b:790:VAL:HG21	1:c:785:GLN:HA	1.80	0.63
1:e:681:GLU:OE1	1:f:675:HIS:NE2	2.25	0.63
1:k:746:LEU:HD22	1:l:737:GLY:HA3	1.81	0.63
1:A:734:ARG:NH2	1:m:742:LEU:HB3	2.13	0.63
1:F:742:LEU:HB3	1:G:734:ARG:NH2	2.13	0.63
1:G:742:LEU:HB3	1:H:734:ARG:NH2	2.13	0.63
1:K:56:ARG:HH22	1:L:156:GLU:HA	1.61	0.63
1:L:742:LEU:HB3	1:M:734:ARG:NH2	2.13	0.63
1:N:742:LEU:HB3	1:O:734:ARG:NH2	2.13	0.63
1:O:739:GLY:O	1:O:743:GLN:HB2	1.98	0.63
1:d:790:VAL:HG21	1:e:785:GLN:HA	1.81	0.63
1:e:414:LEU:HD13	1:e:455:THR:HG21	1.79	0.63
1:f:66:SER:HB3	1:f:84:ARG:HG3	1.79	0.63
1:l:681:GLU:OE1	1:m:675:HIS:NE2	2.25	0.63
1:l:742:LEU:HB3	1:m:734:ARG:NH2	2.13	0.63
1:C:739:GLY:O	1:C:743:GLN:HB2	1.98	0.62
1:E:655:GLN:HG2	1:F:649:ARG:HH22	1.63	0.62
1:H:335:LYS:NZ	1:H:356:CYS:SG	2.71	0.62
1:V:716:VAL:HG21	1:W:708:GLU:HB3	1.81	0.62
1:Y:655:GLN:HG2	1:Z:649:ARG:HH22	1.63	0.62
1:Z:655:GLN:HG2	1:a:649:ARG:HH22	1.63	0.62
1:c:716:VAL:HG21	1:d:708:GLU:HB3	1.81	0.62
1:h:742:LEU:HB3	1:i:734:ARG:NH2	2.13	0.62
1:i:506:LYS:HZ3	1:i:523:PHE:HB3	1.64	0.62
1:k:414:LEU:HD13	1:k:455:THR:HG21	1.79	0.62
1:A:708:GLU:HB3	1:m:716:VAL:HG21	1.81	0.62
1:B:739:GLY:O	1:B:743:GLN:HB2	1.98	0.62
1:G:746:LEU:HD22	1:H:737:GLY:HA3	1.81	0.62
1:H:506:LYS:HZ3	1:H:523:PHE:HB3	1.63	0.62
1:M:716:VAL:HG21	1:N:708:GLU:HB3	1.81	0.62
1:X:716:VAL:HG21	1:Y:708:GLU:HB3	1.81	0.62
1:Y:506:LYS:HZ3	1:Y:523:PHE:HB3	1.65	0.62
1:Y:739:GLY:O	1:Y:743:GLN:HB2	1.98	0.62
1:Z:739:GLY:O	1:Z:743:GLN:HB2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:746:LEU:HD22	1:g:737:GLY:HA3	1.81	0.62
1:h:739:GLY:O	1:h:743:GLN:HB2	1.98	0.62
1:k:790:VAL:HG21	1:l:785:GLN:HA	1.81	0.62
1:A:716:VAL:HG21	1:B:708:GLU:HB3	1.81	0.62
1:D:746:LEU:HD22	1:E:737:GLY:HA3	1.81	0.62
1:P:716:VAL:HG21	1:Q:708:GLU:HB3	1.81	0.62
1:T:655:GLN:HG2	1:U:649:ARG:HH22	1.63	0.62
1:U:790:VAL:HG21	1:V:785:GLN:HA	1.81	0.62
1:h:655:GLN:HG2	1:i:649:ARG:HH22	1.63	0.62
1:k:716:VAL:HG21	1:l:708:GLU:HB3	1.81	0.62
1:l:716:VAL:HG21	1:m:708:GLU:HB3	1.81	0.62
1:m:335:LYS:NZ	1:m:356:CYS:SG	2.71	0.62
1:A:785:GLN:HA	1:m:790:VAL:HG21	1.81	0.62
1:D:66:SER:HB3	1:D:84:ARG:HG3	1.79	0.62
1:G:790:VAL:HG21	1:H:785:GLN:HA	1.81	0.62
1:H:746:LEU:HD22	1:I:737:GLY:HA3	1.81	0.62
1:L:780:GLU:HA	1:L:783:LYS:HZ3	1.65	0.62
1:U:742:LEU:HB3	1:V:734:ARG:NH2	2.13	0.62
1:W:746:LEU:HD22	1:X:737:GLY:HA3	1.81	0.62
1:Z:716:VAL:HG21	1:a:708:GLU:HB3	1.81	0.62
1:a:739:GLY:O	1:a:743:GLN:HB2	1.98	0.62
1:l:739:GLY:O	1:l:743:GLN:HB2	1.98	0.62
1:D:716:VAL:HG21	1:E:708:GLU:HB3	1.81	0.62
1:F:739:GLY:O	1:F:743:GLN:HB2	1.98	0.62
1:I:335:LYS:NZ	1:I:356:CYS:SG	2.71	0.62
1:J:335:LYS:NZ	1:J:356:CYS:SG	2.71	0.62
1:J:716:VAL:HG21	1:K:708:GLU:HB3	1.81	0.62
1:J:746:LEU:HD22	1:K:737:GLY:HA3	1.81	0.62
1:K:776:GLN:O	1:K:779:LEU:HB3	2.00	0.62
1:M:655:GLN:HG2	1:N:649:ARG:HH22	1.63	0.62
1:P:790:VAL:HG21	1:Q:785:GLN:HA	1.81	0.62
1:R:790:VAL:HG21	1:S:785:GLN:HA	1.81	0.62
1:S:655:GLN:HG2	1:T:649:ARG:HH22	1.63	0.62
1:X:739:GLY:O	1:X:743:GLN:HB2	1.98	0.62
1:X:746:LEU:HD22	1:Y:737:GLY:HA3	1.81	0.62
1:X:780:GLU:HA	1:X:783:LYS:HZ3	1.65	0.62
1:g:335:LYS:NZ	1:g:356:CYS:SG	2.71	0.62
1:g:776:GLN:O	1:g:779:LEU:HB3	2.00	0.62
1:h:780:GLU:HA	1:h:783:LYS:HZ3	1.65	0.62
1:j:716:VAL:HG21	1:k:708:GLU:HB3	1.81	0.62
1:j:780:GLU:HA	1:j:783:LYS:HZ3	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:739:GLY:O	1:k:743:GLN:HB2	1.98	0.62
1:A:737:GLY:HA3	1:m:746:LEU:HD22	1.81	0.62
1:E:716:VAL:HG21	1:F:708:GLU:HB3	1.81	0.62
1:H:655:GLN:HG2	1:I:649:ARG:HH22	1.63	0.62
1:H:716:VAL:HG21	1:I:708:GLU:HB3	1.81	0.62
1:L:776:GLN:O	1:L:779:LEU:HB3	2.00	0.62
1:N:746:LEU:HD22	1:O:737:GLY:HA3	1.81	0.62
1:P:681:GLU:OE1	1:Q:675:HIS:NE2	2.25	0.62
1:P:746:LEU:HD22	1:Q:737:GLY:HA3	1.81	0.62
1:Q:790:VAL:HG21	1:R:785:GLN:HA	1.81	0.62
1:S:746:LEU:HD22	1:T:737:GLY:HA3	1.81	0.62
1:V:776:GLN:O	1:V:779:LEU:HB3	2.00	0.62
1:V:790:VAL:HG21	1:W:785:GLN:HA	1.81	0.62
1:c:506:LYS:HZ3	1:c:523:PHE:HB3	1.65	0.62
1:h:746:LEU:HD22	1:i:737:GLY:HA3	1.81	0.62
1:m:776:GLN:O	1:m:779:LEU:HB3	2.00	0.62
1:B:746:LEU:HD22	1:C:737:GLY:HA3	1.81	0.62
1:D:776:GLN:O	1:D:779:LEU:HB3	2.00	0.62
1:G:739:GLY:O	1:G:743:GLN:HB2	1.98	0.62
1:K:790:VAL:HG21	1:L:785:GLN:HA	1.81	0.62
1:M:681:GLU:OE1	1:N:675:HIS:NE2	2.25	0.62
1:O:790:VAL:HG21	1:P:785:GLN:HA	1.81	0.62
1:P:776:GLN:O	1:P:779:LEU:HB3	2.00	0.62
1:U:739:GLY:O	1:U:743:GLN:HB2	1.98	0.62
1:U:746:LEU:HD22	1:V:737:GLY:HA3	1.81	0.62
1:Y:716:VAL:HG21	1:Z:708:GLU:HB3	1.81	0.62
1:Y:776:GLN:O	1:Y:779:LEU:HB3	2.00	0.62
1:Y:790:VAL:HG21	1:Z:785:GLN:HA	1.80	0.62
1:g:716:VAL:HG21	1:h:708:GLU:HB3	1.81	0.62
1:h:776:GLN:O	1:h:779:LEU:HB3	2.00	0.62
1:j:746:LEU:HD22	1:k:737:GLY:HA3	1.81	0.62
1:E:335:LYS:NZ	1:E:356:CYS:SG	2.71	0.62
1:E:746:LEU:HD22	1:F:737:GLY:HA3	1.81	0.62
1:J:506:LYS:HZ3	1:J:523:PHE:HB3	1.65	0.62
1:J:790:VAL:HG21	1:K:785:GLN:HA	1.81	0.62
1:K:506:LYS:HZ3	1:K:523:PHE:HB3	1.65	0.62
1:N:739:GLY:O	1:N:743:GLN:HB2	1.98	0.62
1:O:716:VAL:HG21	1:P:708:GLU:HB3	1.81	0.62
1:Q:776:GLN:O	1:Q:779:LEU:HB3	2.00	0.62
1:X:506:LYS:HZ3	1:X:523:PHE:HB3	1.65	0.62
1:d:780:GLU:HA	1:d:783:LYS:HZ3	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:506:LYS:HZ3	1:C:523:PHE:HB3	1.63	0.62
1:C:776:GLN:O	1:C:779:LEU:HB3	2.00	0.62
1:C:780:GLU:HA	1:C:783:LYS:HZ3	1.65	0.62
1:D:655:GLN:HG2	1:E:649:ARG:HH22	1.63	0.62
1:F:776:GLN:O	1:F:779:LEU:HB3	2.00	0.62
1:M:776:GLN:O	1:M:779:LEU:HB3	2.00	0.62
1:P:655:GLN:HG2	1:Q:649:ARG:HH22	1.63	0.62
1:R:746:LEU:HD22	1:S:737:GLY:HA3	1.81	0.62
1:R:776:GLN:O	1:R:779:LEU:HB3	2.00	0.62
1:S:780:GLU:HA	1:S:783:LYS:HZ3	1.65	0.62
1:b:776:GLN:O	1:b:779:LEU:HB3	2.00	0.62
1:c:780:GLU:HA	1:c:783:LYS:HZ3	1.65	0.62
1:e:746:LEU:HD22	1:f:737:GLY:HA3	1.81	0.62
1:g:780:GLU:HA	1:g:783:LYS:HZ3	1.65	0.62
1:l:506:LYS:HZ3	1:l:523:PHE:HB3	1.65	0.62
1:m:780:GLU:HA	1:m:783:LYS:HZ3	1.65	0.62
1:B:716:VAL:HG21	1:C:708:GLU:HB3	1.81	0.62
1:F:746:LEU:HD22	1:G:737:GLY:HA3	1.81	0.62
1:J:776:GLN:O	1:J:779:LEU:HB3	2.00	0.62
1:a:716:VAL:HG21	1:b:708:GLU:HB3	1.81	0.62
1:i:776:GLN:O	1:i:779:LEU:HB3	2.00	0.62
1:l:790:VAL:HG21	1:m:785:GLN:HA	1.80	0.62
1:N:33:LYS:HA	1:O:24:ASN:ND2	2.16	0.61
1:Y:335:LYS:NZ	1:Y:356:CYS:SG	2.71	0.61
1:Y:780:GLU:HA	1:Y:783:LYS:HZ3	1.65	0.61
1:e:780:GLU:HA	1:e:783:LYS:HZ3	1.65	0.61
1:g:681:GLU:OE1	1:h:675:HIS:NE2	2.25	0.61
1:l:655:GLN:HG2	1:m:649:ARG:HH22	1.63	0.61
1:A:776:GLN:O	1:A:779:LEU:HB3	2.00	0.61
1:B:681:GLU:OE1	1:C:675:HIS:NE2	2.25	0.61
1:E:780:GLU:HA	1:E:783:LYS:HZ3	1.65	0.61
1:L:746:LEU:HD22	1:M:737:GLY:HA3	1.81	0.61
1:N:505:PRO:O	1:N:506:LYS:HD2	2.01	0.61
1:P:335:LYS:NZ	1:P:356:CYS:SG	2.71	0.61
1:Q:746:LEU:HD22	1:R:737:GLY:HA3	1.81	0.61
1:S:776:GLN:O	1:S:779:LEU:HB3	2.00	0.61
1:U:780:GLU:HA	1:U:783:LYS:HZ3	1.65	0.61
1:a:118:ASN:ND2	1:b:179:ARG:O	2.34	0.61
1:a:746:LEU:HD22	1:b:737:GLY:HA3	1.81	0.61
1:c:776:GLN:O	1:c:779:LEU:HB3	2.00	0.61
1:f:776:GLN:O	1:f:779:LEU:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:118:ASN:ND2	1:l:179:ARG:O	2.34	0.61
1:D:33:LYS:HA	1:E:24:ASN:ND2	2.16	0.61
1:F:33:LYS:HA	1:G:24:ASN:ND2	2.16	0.61
1:G:776:GLN:O	1:G:779:LEU:HB3	2.00	0.61
1:L:506:LYS:HZ3	1:L:523:PHE:HB3	1.65	0.61
1:R:698:GLU:OE2	1:S:690:ARG:NE	2.34	0.61
1:U:505:PRO:O	1:U:506:LYS:HD2	2.01	0.61
1:U:698:GLU:OE2	1:V:690:ARG:NE	2.34	0.61
1:W:776:GLN:O	1:W:779:LEU:HB3	2.00	0.61
1:X:776:GLN:O	1:X:779:LEU:HB3	2.00	0.61
1:X:790:VAL:HG21	1:Y:785:GLN:HA	1.81	0.61
1:Y:505:PRO:O	1:Y:506:LYS:HD2	2.01	0.61
1:Z:780:GLU:HA	1:Z:783:LYS:HZ3	1.65	0.61
1:b:33:LYS:HA	1:c:24:ASN:ND2	2.16	0.61
1:c:790:VAL:HG21	1:d:785:GLN:HA	1.81	0.61
1:e:33:LYS:HA	1:f:24:ASN:ND2	2.16	0.61
1:h:716:VAL:HG21	1:i:708:GLU:HB3	1.81	0.61
1:i:505:PRO:O	1:i:506:LYS:HD2	2.01	0.61
1:k:505:PRO:O	1:k:506:LYS:HD2	2.01	0.61
1:C:716:VAL:HG21	1:D:708:GLU:HB3	1.81	0.61
1:C:790:VAL:HG21	1:D:785:GLN:HA	1.81	0.61
1:D:505:PRO:O	1:D:506:LYS:HD2	2.01	0.61
1:D:698:GLU:OE2	1:E:690:ARG:NE	2.34	0.61
1:F:118:ASN:ND2	1:G:179:ARG:O	2.34	0.61
1:H:505:PRO:O	1:H:506:LYS:HD2	2.00	0.61
1:O:776:GLN:O	1:O:779:LEU:HB3	2.00	0.61
1:R:505:PRO:O	1:R:506:LYS:HD2	2.01	0.61
1:S:505:PRO:O	1:S:506:LYS:HD2	2.01	0.61
1:T:746:LEU:HD22	1:U:737:GLY:HA3	1.81	0.61
1:X:335:LYS:NZ	1:X:356:CYS:SG	2.71	0.61
1:X:698:GLU:OE2	1:Y:690:ARG:NE	2.34	0.61
1:Y:746:LEU:HD22	1:Z:737:GLY:HA3	1.81	0.61
1:d:505:PRO:O	1:d:506:LYS:HD2	2.01	0.61
1:e:716:VAL:HG21	1:f:708:GLU:HB3	1.81	0.61
1:g:118:ASN:ND2	1:h:179:ARG:O	2.34	0.61
1:g:505:PRO:O	1:g:506:LYS:HD2	2.01	0.61
1:j:33:LYS:HA	1:k:24:ASN:ND2	2.16	0.61
1:l:118:ASN:ND2	1:m:179:ARG:O	2.34	0.61
1:B:780:GLU:HA	1:B:783:LYS:HZ3	1.65	0.61
1:C:505:PRO:O	1:C:506:LYS:HD2	2.01	0.61
1:C:698:GLU:OE2	1:D:690:ARG:NE	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:ASN:ND2	1:F:179:ARG:O	2.34	0.61
1:G:698:GLU:OE2	1:H:690:ARG:NE	2.34	0.61
1:I:118:ASN:ND2	1:J:179:ARG:O	2.34	0.61
1:K:505:PRO:O	1:K:506:LYS:HD2	2.01	0.61
1:N:716:VAL:HG21	1:O:708:GLU:HB3	1.81	0.61
1:Q:33:LYS:HA	1:R:24:ASN:ND2	2.16	0.61
1:R:780:GLU:HA	1:R:783:LYS:HZ3	1.65	0.61
1:S:118:ASN:ND2	1:T:179:ARG:O	2.34	0.61
1:T:780:GLU:HA	1:T:783:LYS:HZ3	1.65	0.61
1:U:776:GLN:O	1:U:779:LEU:HB3	2.00	0.61
1:W:716:VAL:HG21	1:X:708:GLU:HB3	1.81	0.61
1:W:780:GLU:HA	1:W:783:LYS:HZ3	1.65	0.61
1:a:698:GLU:OE2	1:b:690:ARG:NE	2.34	0.61
1:b:746:LEU:HD22	1:c:737:GLY:HA3	1.81	0.61
1:d:716:VAL:HG21	1:e:708:GLU:HB3	1.81	0.61
1:i:716:VAL:HG21	1:j:708:GLU:HB3	1.81	0.61
1:k:335:LYS:NZ	1:k:356:CYS:SG	2.71	0.61
1:A:698:GLU:OE2	1:B:690:ARG:NE	2.34	0.61
1:B:505:PRO:O	1:B:506:LYS:HD2	2.01	0.61
1:B:776:GLN:O	1:B:779:LEU:HB3	2.00	0.61
1:F:698:GLU:OE2	1:G:690:ARG:NE	2.34	0.61
1:I:746:LEU:HD22	1:J:737:GLY:HA3	1.81	0.61
1:M:506:LYS:HZ3	1:M:523:PHE:HB3	1.66	0.61
1:R:739:GLY:O	1:R:743:GLN:HB2	1.98	0.61
1:V:505:PRO:O	1:V:506:LYS:HD2	2.01	0.61
1:Y:33:LYS:HA	1:Z:24:ASN:ND2	2.16	0.61
1:Z:505:PRO:O	1:Z:506:LYS:HD2	2.01	0.61
1:Z:698:GLU:OE2	1:a:690:ARG:NE	2.34	0.61
1:c:746:LEU:HD22	1:d:737:GLY:HA3	1.81	0.61
1:d:746:LEU:HD22	1:e:737:GLY:HA3	1.81	0.61
1:e:505:PRO:O	1:e:506:LYS:HD2	2.01	0.61
1:h:118:ASN:ND2	1:i:179:ARG:O	2.34	0.61
1:k:698:GLU:OE2	1:l:690:ARG:NE	2.34	0.61
1:B:33:LYS:HA	1:C:24:ASN:ND2	2.16	0.61
1:E:776:GLN:O	1:E:779:LEU:HB3	2.00	0.61
1:H:698:GLU:OE2	1:I:690:ARG:NE	2.34	0.61
1:K:33:LYS:HA	1:L:24:ASN:ND2	2.16	0.61
1:L:698:GLU:OE2	1:M:690:ARG:NE	2.34	0.61
1:L:790:VAL:HG21	1:M:785:GLN:HA	1.81	0.61
1:N:118:ASN:ND2	1:O:179:ARG:O	2.34	0.61
1:O:118:ASN:ND2	1:P:179:ARG:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:780:GLU:HA	1:O:783:LYS:HZ3	1.65	0.61
1:P:118:ASN:ND2	1:Q:179:ARG:O	2.34	0.61
1:Q:698:GLU:OE2	1:R:690:ARG:NE	2.34	0.61
1:R:33:LYS:HA	1:S:24:ASN:ND2	2.16	0.61
1:T:118:ASN:ND2	1:U:179:ARG:O	2.34	0.61
1:X:33:LYS:HA	1:Y:24:ASN:ND2	2.16	0.61
1:a:505:PRO:O	1:a:506:LYS:HD2	2.01	0.61
1:a:780:GLU:HA	1:a:783:LYS:HZ3	1.66	0.61
1:b:118:ASN:ND2	1:c:179:ARG:O	2.34	0.61
1:k:33:LYS:HA	1:l:24:ASN:ND2	2.16	0.61
1:k:780:GLU:HA	1:k:783:LYS:HZ3	1.66	0.61
1:A:24:ASN:ND2	1:m:33:LYS:HA	2.16	0.61
1:G:505:PRO:O	1:G:506:LYS:HD2	2.01	0.61
1:H:776:GLN:O	1:H:779:LEU:HB3	2.00	0.61
1:I:780:GLU:HA	1:I:783:LYS:HZ3	1.65	0.61
1:K:698:GLU:OE2	1:L:690:ARG:NE	2.34	0.61
1:L:505:PRO:O	1:L:506:LYS:HD2	2.01	0.61
1:M:698:GLU:OE2	1:N:690:ARG:NE	2.34	0.61
1:R:118:ASN:ND2	1:S:179:ARG:O	2.34	0.61
1:W:698:GLU:OE2	1:X:690:ARG:NE	2.34	0.61
1:Z:776:GLN:O	1:Z:779:LEU:HB3	2.00	0.61
1:d:118:ASN:ND2	1:e:179:ARG:O	2.34	0.61
1:e:776:GLN:O	1:e:779:LEU:HB3	2.00	0.61
1:j:506:LYS:HZ3	1:j:523:PHE:HB3	1.65	0.61
1:l:33:LYS:HA	1:m:24:ASN:ND2	2.16	0.61
1:m:505:PRO:O	1:m:506:LYS:HD2	2.01	0.61
1:A:179:ARG:O	1:m:118:ASN:ND2	2.34	0.61
1:C:746:LEU:HD22	1:D:737:GLY:HA3	1.81	0.61
1:I:33:LYS:HA	1:J:24:ASN:ND2	2.16	0.61
1:I:776:GLN:O	1:I:779:LEU:HB3	2.00	0.61
1:J:118:ASN:ND2	1:K:179:ARG:O	2.34	0.61
1:M:746:LEU:HD22	1:N:737:GLY:HA3	1.81	0.61
1:M:780:GLU:HA	1:M:783:LYS:HZ3	1.65	0.61
1:U:335:LYS:NZ	1:U:356:CYS:SG	2.71	0.61
1:X:118:ASN:ND2	1:Y:179:ARG:O	2.34	0.61
1:c:505:PRO:O	1:c:506:LYS:HD2	2.01	0.61
1:j:118:ASN:ND2	1:k:179:ARG:O	2.34	0.61
1:K:716:VAL:HG21	1:L:708:GLU:HB3	1.81	0.61
1:O:505:PRO:O	1:O:506:LYS:HD2	2.01	0.61
1:Q:118:ASN:ND2	1:R:179:ARG:O	2.34	0.61
1:S:698:GLU:OE2	1:T:690:ARG:NE	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:698:GLU:OE2	1:W:690:ARG:NE	2.34	0.61
1:Z:746:LEU:HD22	1:a:737:GLY:HA3	1.81	0.61
1:b:698:GLU:OE2	1:c:690:ARG:NE	2.34	0.61
1:d:776:GLN:O	1:d:779:LEU:HB3	2.00	0.61
1:e:118:ASN:ND2	1:f:179:ARG:O	2.34	0.61
1:f:505:PRO:O	1:f:506:LYS:HD2	2.01	0.61
1:g:33:LYS:HA	1:h:24:ASN:ND2	2.16	0.61
1:j:776:GLN:O	1:j:779:LEU:HB3	2.00	0.61
1:l:746:LEU:HD22	1:m:737:GLY:HA3	1.81	0.61
1:l:776:GLN:O	1:l:779:LEU:HB3	2.00	0.61
1:l:780:GLU:HA	1:l:783:LYS:HZ3	1.65	0.61
1:D:118:ASN:ND2	1:E:179:ARG:O	2.34	0.60
1:F:790:VAL:HG21	1:G:785:GLN:HA	1.81	0.60
1:G:118:ASN:ND2	1:H:179:ARG:O	2.34	0.60
1:G:716:VAL:HG21	1:H:708:GLU:HB3	1.81	0.60
1:K:780:GLU:HA	1:K:783:LYS:HZ3	1.65	0.60
1:L:118:ASN:ND2	1:M:179:ARG:O	2.34	0.60
1:N:698:GLU:OE2	1:O:690:ARG:NE	2.34	0.60
1:P:505:PRO:O	1:P:506:LYS:HD2	2.01	0.60
1:Q:780:GLU:HA	1:Q:783:LYS:HZ3	1.65	0.60
1:R:335:LYS:NZ	1:R:356:CYS:SG	2.71	0.60
1:U:118:ASN:ND2	1:V:179:ARG:O	2.34	0.60
1:W:118:ASN:ND2	1:X:179:ARG:O	2.34	0.60
1:a:776:GLN:O	1:a:779:LEU:HB3	2.00	0.60
1:c:698:GLU:OE2	1:d:690:ARG:NE	2.34	0.60
1:i:746:LEU:HD22	1:j:737:GLY:HA3	1.81	0.60
1:k:776:GLN:O	1:k:779:LEU:HB3	2.00	0.60
1:A:505:PRO:O	1:A:506:LYS:HD2	2.01	0.60
1:N:776:GLN:O	1:N:779:LEU:HB3	2.00	0.60
1:O:570:ASP:HA	1:O:573:LYS:HE2	1.84	0.60
1:P:698:GLU:OE2	1:Q:690:ARG:NE	2.34	0.60
1:U:506:LYS:HZ3	1:U:523:PHE:HB3	1.66	0.60
1:V:780:GLU:HA	1:V:783:LYS:HZ3	1.67	0.60
1:j:698:GLU:OE2	1:k:690:ARG:NE	2.34	0.60
1:A:690:ARG:NE	1:m:698:GLU:OE2	2.34	0.60
1:J:33:LYS:HA	1:K:24:ASN:ND2	2.16	0.60
1:J:780:GLU:HA	1:J:783:LYS:HZ3	1.65	0.60
1:K:118:ASN:ND2	1:L:179:ARG:O	2.34	0.60
1:M:33:LYS:HA	1:N:24:ASN:ND2	2.15	0.60
1:N:780:GLU:HA	1:N:783:LYS:HZ3	1.65	0.60
1:O:698:GLU:OE2	1:P:690:ARG:NE	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:33:LYS:HA	1:V:24:ASN:ND2	2.16	0.60
1:Y:118:ASN:ND2	1:Z:179:ARG:O	2.34	0.60
1:Y:570:ASP:HA	1:Y:573:LYS:HE2	1.84	0.60
1:Z:118:ASN:ND2	1:a:179:ARG:O	2.34	0.60
1:c:33:LYS:HA	1:d:24:ASN:ND2	2.16	0.60
1:h:698:GLU:OE2	1:i:690:ARG:NE	2.34	0.60
1:i:33:LYS:HA	1:j:24:ASN:ND2	2.16	0.60
1:i:698:GLU:OE2	1:j:690:ARG:NE	2.34	0.60
1:k:570:ASP:HA	1:k:573:LYS:HE2	1.84	0.60
1:l:505:PRO:O	1:l:506:LYS:HD2	2.01	0.60
1:l:698:GLU:OE2	1:m:690:ARG:NE	2.34	0.60
1:A:33:LYS:HA	1:B:24:ASN:ND2	2.16	0.60
1:H:118:ASN:ND2	1:I:179:ARG:O	2.34	0.60
1:H:570:ASP:HA	1:H:573:LYS:HE2	1.84	0.60
1:L:490:ASP:HB3	1:L:491:PRO:HD2	1.84	0.60
1:M:505:PRO:O	1:M:506:LYS:HD2	2.01	0.60
1:S:33:LYS:HA	1:T:24:ASN:ND2	2.16	0.60
1:T:698:GLU:OE2	1:U:690:ARG:NE	2.34	0.60
1:T:702:ALA:H	1:U:690:ARG:HH12	1.50	0.60
1:T:776:GLN:O	1:T:779:LEU:HB3	2.00	0.60
1:W:33:LYS:HA	1:X:24:ASN:ND2	2.16	0.60
1:c:570:ASP:HA	1:c:573:LYS:HE2	1.84	0.60
1:d:698:GLU:OE2	1:e:690:ARG:NE	2.34	0.60
1:f:698:GLU:OE2	1:g:690:ARG:NE	2.34	0.60
1:h:33:LYS:HA	1:i:24:ASN:ND2	2.16	0.60
1:h:335:LYS:NZ	1:h:356:CYS:SG	2.71	0.60
1:j:702:ALA:H	1:k:690:ARG:HH12	1.50	0.60
1:B:698:GLU:OE2	1:C:690:ARG:NE	2.34	0.60
1:B:702:ALA:H	1:C:690:ARG:HH12	1.50	0.60
1:E:505:PRO:O	1:E:506:LYS:HD2	2.01	0.60
1:E:698:GLU:OE2	1:F:690:ARG:NE	2.34	0.60
1:F:505:PRO:O	1:F:506:LYS:HD2	2.01	0.60
1:H:780:GLU:HA	1:H:783:LYS:HZ3	1.65	0.60
1:M:702:ALA:H	1:N:690:ARG:HH12	1.50	0.60
1:W:505:PRO:O	1:W:506:LYS:HD2	2.00	0.60
1:b:702:ALA:H	1:c:690:ARG:HH12	1.50	0.60
1:d:570:ASP:HA	1:d:573:LYS:HE2	1.84	0.60
1:g:570:ASP:HA	1:g:573:LYS:HE2	1.84	0.60
1:g:698:GLU:OE2	1:h:690:ARG:NE	2.34	0.60
1:h:505:PRO:O	1:h:506:LYS:HD2	2.01	0.60
1:j:505:PRO:O	1:j:506:LYS:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ASN:ND2	1:B:179:ARG:O	2.34	0.60
1:B:118:ASN:ND2	1:C:179:ARG:O	2.34	0.60
1:C:33:LYS:HA	1:D:24:ASN:ND2	2.16	0.60
1:H:33:LYS:HA	1:I:24:ASN:ND2	2.16	0.60
1:I:698:GLU:OE2	1:J:690:ARG:NE	2.34	0.60
1:J:505:PRO:O	1:J:506:LYS:HD2	2.01	0.60
1:M:335:LYS:NZ	1:M:356:CYS:SG	2.71	0.60
1:O:702:ALA:H	1:P:690:ARG:HH12	1.50	0.60
1:T:570:ASP:HA	1:T:573:LYS:HE2	1.83	0.60
1:W:490:ASP:HB3	1:W:491:PRO:HD2	1.84	0.60
1:b:505:PRO:O	1:b:506:LYS:HD2	2.01	0.60
1:c:335:LYS:NZ	1:c:356:CYS:SG	2.71	0.60
1:e:698:GLU:OE2	1:f:690:ARG:NE	2.34	0.60
1:j:570:ASP:HA	1:j:573:LYS:HE2	1.84	0.60
1:J:698:GLU:OE2	1:K:690:ARG:NE	2.34	0.60
1:K:570:ASP:HA	1:K:573:LYS:HE2	1.84	0.60
1:L:570:ASP:HA	1:L:573:LYS:HE2	1.84	0.60
1:M:118:ASN:ND2	1:N:179:ARG:O	2.34	0.60
1:M:490:ASP:HB3	1:M:491:PRO:HD2	1.84	0.60
1:R:570:ASP:HA	1:R:573:LYS:HE2	1.84	0.60
1:V:118:ASN:ND2	1:W:179:ARG:O	2.34	0.60
1:V:490:ASP:HB3	1:V:491:PRO:HD2	1.84	0.60
1:W:335:LYS:NZ	1:W:356:CYS:SG	2.71	0.60
1:a:681:GLU:OE1	1:b:675:HIS:NE2	2.25	0.60
1:b:335:LYS:NZ	1:b:356:CYS:SG	2.71	0.60
1:f:33:LYS:HA	1:g:24:ASN:ND2	2.16	0.60
1:i:702:ALA:H	1:j:690:ARG:HH12	1.50	0.60
1:i:780:GLU:HA	1:i:783:LYS:HZ3	1.65	0.60
1:C:118:ASN:ND2	1:D:179:ARG:O	2.34	0.60
1:C:702:ALA:H	1:D:690:ARG:HH12	1.50	0.60
1:E:33:LYS:HA	1:F:24:ASN:ND2	2.16	0.60
1:G:570:ASP:HA	1:G:573:LYS:HE2	1.84	0.60
1:N:490:ASP:HB3	1:N:491:PRO:HD2	1.84	0.60
1:N:702:ALA:H	1:O:690:ARG:HH12	1.50	0.60
1:Q:505:PRO:O	1:Q:506:LYS:HD2	2.01	0.60
1:T:490:ASP:HB3	1:T:491:PRO:HD2	1.84	0.60
1:U:570:ASP:HA	1:U:573:LYS:HE2	1.84	0.60
1:c:118:ASN:ND2	1:d:179:ARG:O	2.34	0.60
1:e:772:TYR:CE1	1:f:770:LEU:HD23	2.37	0.60
1:m:713:SER:O	1:m:716:VAL:HG12	2.02	0.60
1:A:702:ALA:H	1:B:690:ARG:HH12	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:SER:O	1:A:716:VAL:HG12	2.02	0.60
1:C:335:LYS:NZ	1:C:356:CYS:SG	2.71	0.60
1:G:33:LYS:HA	1:H:24:ASN:ND2	2.16	0.60
1:I:570:ASP:HA	1:I:573:LYS:HE2	1.84	0.60
1:K:490:ASP:HB3	1:K:491:PRO:HD2	1.84	0.60
1:L:33:LYS:HA	1:M:24:ASN:ND2	2.16	0.60
1:N:713:SER:O	1:N:716:VAL:HG12	2.02	0.60
1:O:33:LYS:HA	1:P:24:ASN:ND2	2.16	0.60
1:O:490:ASP:HB3	1:O:491:PRO:HD2	1.84	0.60
1:P:570:ASP:HA	1:P:573:LYS:HE2	1.84	0.60
1:Q:772:TYR:CE1	1:R:770:LEU:HD23	2.37	0.60
1:T:772:TYR:CE1	1:U:770:LEU:HD23	2.37	0.60
1:U:490:ASP:HB3	1:U:491:PRO:HD2	1.84	0.60
1:X:505:PRO:O	1:X:506:LYS:HD2	2.00	0.60
1:X:570:ASP:HA	1:X:573:LYS:HE2	1.84	0.60
1:Y:698:GLU:OE2	1:Z:690:ARG:NE	2.34	0.60
1:Y:772:TYR:CE1	1:Z:770:LEU:HD23	2.37	0.60
1:a:702:ALA:H	1:b:690:ARG:HH12	1.50	0.60
1:d:713:SER:O	1:d:716:VAL:HG12	2.02	0.60
1:f:772:TYR:CE1	1:g:770:LEU:HD23	2.37	0.60
1:l:570:ASP:HA	1:l:573:LYS:HE2	1.84	0.60
1:l:713:SER:O	1:l:716:VAL:HG12	2.02	0.60
1:m:506:LYS:HZ3	1:m:523:PHE:HB3	1.66	0.60
1:D:702:ALA:H	1:E:690:ARG:HH12	1.50	0.60
1:E:506:LYS:HZ3	1:E:523:PHE:HB3	1.67	0.60
1:F:570:ASP:HA	1:F:573:LYS:HE2	1.84	0.60
1:J:681:GLU:OE1	1:K:675:HIS:NE2	2.25	0.60
1:Q:490:ASP:HB3	1:Q:491:PRO:HD2	1.84	0.60
1:S:490:ASP:HB3	1:S:491:PRO:HD2	1.84	0.60
1:V:713:SER:O	1:V:716:VAL:HG12	2.02	0.60
1:a:33:LYS:HA	1:b:24:ASN:ND2	2.16	0.60
1:c:772:TYR:CE1	1:d:770:LEU:HD23	2.37	0.60
1:d:33:LYS:HA	1:e:24:ASN:ND2	2.16	0.60
1:h:713:SER:O	1:h:716:VAL:HG12	2.02	0.60
1:i:118:ASN:ND2	1:j:179:ARG:O	2.34	0.60
1:k:772:TYR:CE1	1:l:770:LEU:HD23	2.37	0.60
1:A:490:ASP:HB3	1:A:491:PRO:HD2	1.84	0.59
1:D:772:TYR:CE1	1:E:770:LEU:HD23	2.37	0.59
1:G:713:SER:O	1:G:716:VAL:HG12	2.02	0.59
1:H:713:SER:O	1:H:716:VAL:HG12	2.02	0.59
1:R:490:ASP:HB3	1:R:491:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:713:SER:O	1:R:716:VAL:HG12	2.02	0.59
1:S:713:SER:O	1:S:716:VAL:HG12	2.02	0.59
1:a:713:SER:O	1:a:716:VAL:HG12	2.02	0.59
1:b:780:GLU:HA	1:b:783:LYS:HZ3	1.66	0.59
1:d:335:LYS:NZ	1:d:356:CYS:SG	2.71	0.59
1:f:118:ASN:ND2	1:g:179:ARG:O	2.34	0.59
1:B:779:LEU:HD13	1:C:774:ARG:NE	2.18	0.59
1:J:490:ASP:HB3	1:J:491:PRO:HD2	1.84	0.59
1:O:506:LYS:HZ3	1:O:523:PHE:HB3	1.66	0.59
1:R:772:TYR:CE1	1:S:770:LEU:HD23	2.37	0.59
1:T:713:SER:O	1:T:716:VAL:HG12	2.02	0.59
1:X:702:ALA:H	1:Y:690:ARG:HH12	1.50	0.59
1:Z:713:SER:O	1:Z:716:VAL:HG12	2.02	0.59
1:b:490:ASP:HB3	1:b:491:PRO:HD2	1.84	0.59
1:g:490:ASP:HB3	1:g:491:PRO:HD2	1.84	0.59
1:B:713:SER:O	1:B:716:VAL:HG12	2.02	0.59
1:C:772:TYR:CE1	1:D:770:LEU:HD23	2.37	0.59
1:E:702:ALA:H	1:F:690:ARG:HH12	1.50	0.59
1:G:772:TYR:CE1	1:H:770:LEU:HD23	2.37	0.59
1:J:713:SER:O	1:J:716:VAL:HG12	2.02	0.59
1:K:779:LEU:HD13	1:L:774:ARG:NE	2.18	0.59
1:L:772:TYR:CE1	1:M:770:LEU:HD23	2.37	0.59
1:N:570:ASP:HA	1:N:573:LYS:HE2	1.84	0.59
1:O:772:TYR:CE1	1:P:770:LEU:HD23	2.37	0.59
1:U:702:ALA:H	1:V:690:ARG:HH12	1.50	0.59
1:V:33:LYS:HA	1:W:24:ASN:ND2	2.16	0.59
1:W:772:TYR:CE1	1:X:770:LEU:HD23	2.37	0.59
1:Z:33:LYS:HA	1:a:24:ASN:ND2	2.16	0.59
1:a:490:ASP:HB3	1:a:491:PRO:HD2	1.84	0.59
1:b:779:LEU:HD13	1:c:774:ARG:NE	2.18	0.59
1:g:713:SER:O	1:g:716:VAL:HG12	2.02	0.59
1:i:779:LEU:HD13	1:j:774:ARG:NE	2.18	0.59
1:m:490:ASP:HB3	1:m:491:PRO:HD2	1.84	0.59
1:m:570:ASP:HA	1:m:573:LYS:HE2	1.84	0.59
1:H:772:TYR:CE1	1:I:770:LEU:HD23	2.37	0.59
1:I:505:PRO:O	1:I:506:LYS:HD2	2.01	0.59
1:J:772:TYR:CE1	1:K:770:LEU:HD23	2.37	0.59
1:N:506:LYS:HZ3	1:N:523:PHE:HB3	1.66	0.59
1:P:33:LYS:HA	1:Q:24:ASN:ND2	2.16	0.59
1:S:702:ALA:H	1:T:690:ARG:HH12	1.50	0.59
1:T:505:PRO:O	1:T:506:LYS:HD2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:713:SER:O	1:U:716:VAL:HG12	2.02	0.59
1:W:779:LEU:HD13	1:X:774:ARG:NE	2.18	0.59
1:X:490:ASP:HB3	1:X:491:PRO:HD2	1.84	0.59
1:Y:779:LEU:HD13	1:Z:774:ARG:NE	2.18	0.59
1:Z:772:TYR:CE1	1:a:770:LEU:HD23	2.37	0.59
1:a:570:ASP:HA	1:a:573:LYS:HE2	1.84	0.59
1:b:713:SER:O	1:b:716:VAL:HG12	2.02	0.59
1:c:779:LEU:HD13	1:d:774:ARG:NE	2.18	0.59
1:h:570:ASP:HA	1:h:573:LYS:HE2	1.84	0.59
1:h:772:TYR:CE1	1:i:770:LEU:HD23	2.37	0.59
1:B:490:ASP:HB3	1:B:491:PRO:HD2	1.84	0.59
1:B:772:TYR:CE1	1:C:770:LEU:HD23	2.37	0.59
1:D:779:LEU:HD13	1:E:774:ARG:NE	2.18	0.59
1:I:779:LEU:HD13	1:J:774:ARG:NE	2.18	0.59
1:K:702:ALA:H	1:L:690:ARG:HH12	1.50	0.59
1:L:702:ALA:H	1:M:690:ARG:HH12	1.50	0.59
1:L:779:LEU:HD13	1:M:774:ARG:NE	2.18	0.59
1:Q:779:LEU:HD13	1:R:774:ARG:NE	2.18	0.59
1:T:33:LYS:HA	1:U:24:ASN:ND2	2.16	0.59
1:T:681:GLU:OE1	1:U:675:HIS:NE2	2.24	0.59
1:U:772:TYR:CE1	1:V:770:LEU:HD23	2.37	0.59
1:W:702:ALA:H	1:X:690:ARG:HH12	1.50	0.59
1:a:335:LYS:NZ	1:a:356:CYS:SG	2.71	0.59
1:c:490:ASP:HB3	1:c:491:PRO:HD2	1.84	0.59
1:c:702:ALA:H	1:d:690:ARG:HH12	1.50	0.59
1:e:779:LEU:HD13	1:f:774:ARG:NE	2.18	0.59
1:A:770:LEU:HD23	1:m:772:TYR:CE1	2.37	0.59
1:F:335:LYS:NZ	1:F:356:CYS:SG	2.71	0.59
1:I:490:ASP:HB3	1:I:491:PRO:HD2	1.84	0.59
1:O:779:LEU:HD13	1:P:774:ARG:NE	2.18	0.59
1:P:490:ASP:HB3	1:P:491:PRO:HD2	1.84	0.59
1:T:335:LYS:NZ	1:T:356:CYS:SG	2.71	0.59
1:e:713:SER:O	1:e:716:VAL:HG12	2.02	0.59
1:f:490:ASP:HB3	1:f:491:PRO:HD2	1.84	0.59
1:f:702:ALA:H	1:g:690:ARG:HH12	1.50	0.59
1:f:779:LEU:HD13	1:g:774:ARG:NE	2.18	0.59
1:k:713:SER:O	1:k:716:VAL:HG12	2.02	0.59
1:k:779:LEU:HD13	1:l:774:ARG:NE	2.18	0.59
1:A:690:ARG:HH12	1:m:702:ALA:H	1.50	0.59
1:A:772:TYR:CE1	1:B:770:LEU:HD23	2.37	0.59
1:D:713:SER:O	1:D:716:VAL:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:570:ASP:HA	1:E:573:LYS:HE2	1.84	0.59
1:E:779:LEU:HD13	1:F:774:ARG:NE	2.18	0.59
1:F:681:GLU:OE1	1:G:675:HIS:NE2	2.25	0.59
1:F:713:SER:O	1:F:716:VAL:HG12	2.02	0.59
1:H:779:LEU:HD13	1:I:774:ARG:NE	2.18	0.59
1:K:713:SER:O	1:K:716:VAL:HG12	2.02	0.59
1:N:772:TYR:CE1	1:O:770:LEU:HD23	2.37	0.59
1:P:702:ALA:H	1:Q:690:ARG:HH12	1.50	0.59
1:Q:713:SER:O	1:Q:716:VAL:HG12	2.02	0.59
1:U:779:LEU:HD13	1:V:774:ARG:NE	2.18	0.59
1:Z:779:LEU:HD13	1:a:774:ARG:NE	2.18	0.59
1:e:506:LYS:HZ3	1:e:523:PHE:HB3	1.67	0.59
1:g:779:LEU:HD13	1:h:774:ARG:NE	2.18	0.59
1:i:772:TYR:CE1	1:j:770:LEU:HD23	2.37	0.59
1:l:772:TYR:CE1	1:m:770:LEU:HD23	2.37	0.59
1:A:779:LEU:HD13	1:B:774:ARG:NE	2.18	0.59
1:B:506:LYS:HZ3	1:B:523:PHE:HB3	1.67	0.59
1:F:490:ASP:HB3	1:F:491:PRO:HD2	1.84	0.59
1:F:772:TYR:CE1	1:G:770:LEU:HD23	2.37	0.59
1:N:779:LEU:HD13	1:O:774:ARG:NE	2.18	0.59
1:O:13:TYR:HH	1:P:85:HIS:CE1	2.18	0.59
1:T:779:LEU:HD13	1:U:774:ARG:NE	2.18	0.59
1:V:570:ASP:HA	1:V:573:LYS:HE2	1.84	0.59
1:V:772:TYR:CE1	1:W:770:LEU:HD23	2.37	0.59
1:W:713:SER:O	1:W:716:VAL:HG12	2.02	0.59
1:Y:490:ASP:HB3	1:Y:491:PRO:HD2	1.84	0.59
1:b:772:TYR:CE1	1:c:770:LEU:HD23	2.37	0.59
1:e:598:ILE:HA	1:e:601:MET:HG2	1.85	0.59
1:i:570:ASP:HA	1:i:573:LYS:HE2	1.84	0.59
1:l:779:LEU:HD13	1:m:774:ARG:NE	2.18	0.59
1:A:570:ASP:HA	1:A:573:LYS:HE2	1.84	0.59
1:C:713:SER:O	1:C:716:VAL:HG12	2.02	0.59
1:D:780:GLU:HA	1:D:783:LYS:HZ3	1.66	0.59
1:F:702:ALA:H	1:G:690:ARG:HH12	1.50	0.59
1:G:490:ASP:HB3	1:G:491:PRO:HD2	1.84	0.59
1:G:780:GLU:HA	1:G:783:LYS:HZ3	1.67	0.59
1:P:779:LEU:HD13	1:Q:774:ARG:NE	2.18	0.59
1:S:772:TYR:CE1	1:T:770:LEU:HD23	2.37	0.59
1:S:779:LEU:HD13	1:T:774:ARG:NE	2.18	0.59
1:T:598:ILE:HA	1:T:601:MET:HG2	1.85	0.59
1:e:702:ALA:H	1:f:690:ARG:HH12	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:490:ASP:HB3	1:h:491:PRO:HD2	1.84	0.59
1:k:702:ALA:H	1:l:690:ARG:HH12	1.50	0.59
1:A:335:LYS:NZ	1:A:356:CYS:SG	2.71	0.59
1:F:779:LEU:HD13	1:G:774:ARG:NE	2.18	0.59
1:K:772:TYR:CE1	1:L:770:LEU:HD23	2.37	0.59
1:M:772:TYR:CE1	1:N:770:LEU:HD23	2.37	0.59
1:Q:598:ILE:HA	1:Q:601:MET:HG2	1.85	0.59
1:S:570:ASP:HA	1:S:573:LYS:HE2	1.84	0.59
1:X:772:TYR:CE1	1:Y:770:LEU:HD23	2.37	0.59
1:Z:490:ASP:HB3	1:Z:491:PRO:HD2	1.84	0.59
1:Z:570:ASP:HA	1:Z:573:LYS:HE2	1.84	0.59
1:b:570:ASP:HA	1:b:573:LYS:HE2	1.84	0.59
1:j:490:ASP:HB3	1:j:491:PRO:HD2	1.84	0.59
1:k:490:ASP:HB3	1:k:491:PRO:HD2	1.84	0.59
1:k:598:ILE:HA	1:k:601:MET:HG2	1.85	0.59
1:l:598:ILE:HA	1:l:601:MET:HG2	1.85	0.59
1:A:774:ARG:NE	1:m:779:LEU:HD13	2.18	0.58
1:B:598:ILE:HA	1:B:601:MET:HG2	1.85	0.58
1:C:570:ASP:HA	1:C:573:LYS:HE2	1.84	0.58
1:E:490:ASP:HB3	1:E:491:PRO:HD2	1.84	0.58
1:E:598:ILE:HA	1:E:601:MET:HG2	1.85	0.58
1:F:598:ILE:HA	1:F:601:MET:HG2	1.85	0.58
1:I:702:ALA:H	1:J:690:ARG:HH12	1.50	0.58
1:J:598:ILE:HA	1:J:601:MET:HG2	1.85	0.58
1:M:713:SER:O	1:M:716:VAL:HG12	2.02	0.58
1:O:713:SER:O	1:O:716:VAL:HG12	2.02	0.58
1:T:13:TYR:HH	1:U:85:HIS:CE1	2.19	0.58
1:W:570:ASP:HA	1:W:573:LYS:HE2	1.84	0.58
1:X:598:ILE:HA	1:X:601:MET:HG2	1.85	0.58
1:e:335:LYS:NZ	1:e:356:CYS:SG	2.71	0.58
1:e:570:ASP:HA	1:e:573:LYS:HE2	1.84	0.58
1:f:713:SER:O	1:f:716:VAL:HG12	2.02	0.58
1:C:598:ILE:HA	1:C:601:MET:HG2	1.85	0.58
1:E:772:TYR:CE1	1:F:770:LEU:HD23	2.37	0.58
1:G:702:ALA:H	1:H:690:ARG:HH12	1.50	0.58
1:J:702:ALA:H	1:K:690:ARG:HH12	1.50	0.58
1:K:598:ILE:HA	1:K:601:MET:HG2	1.85	0.58
1:O:335:LYS:NZ	1:O:356:CYS:SG	2.71	0.58
1:P:772:TYR:CE1	1:Q:770:LEU:HD23	2.37	0.58
1:Q:702:ALA:H	1:R:690:ARG:HH12	1.50	0.58
1:R:779:LEU:HD13	1:S:774:ARG:NE	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:779:LEU:HD13	1:W:774:ARG:NE	2.18	0.58
1:Y:702:ALA:H	1:Z:690:ARG:HH12	1.50	0.58
1:a:772:TYR:CE1	1:b:770:LEU:HD23	2.37	0.58
1:d:598:ILE:HA	1:d:601:MET:HG2	1.85	0.58
1:f:570:ASP:HA	1:f:573:LYS:HE2	1.84	0.58
1:f:598:ILE:HA	1:f:601:MET:HG2	1.85	0.58
1:g:702:ALA:H	1:h:690:ARG:HH12	1.50	0.58
1:i:490:ASP:HB3	1:i:491:PRO:HD2	1.84	0.58
1:j:713:SER:O	1:j:716:VAL:HG12	2.02	0.58
1:B:570:ASP:HA	1:B:573:LYS:HE2	1.84	0.58
1:D:570:ASP:HA	1:D:573:LYS:HE2	1.84	0.58
1:G:13:TYR:HH	1:H:85:HIS:CE1	2.19	0.58
1:G:779:LEU:HD13	1:H:774:ARG:NE	2.18	0.58
1:L:598:ILE:HA	1:L:601:MET:HG2	1.85	0.58
1:R:598:ILE:HA	1:R:601:MET:HG2	1.85	0.58
1:U:598:ILE:HA	1:U:601:MET:HG2	1.85	0.58
1:Y:598:ILE:HA	1:Y:601:MET:HG2	1.85	0.58
1:b:598:ILE:HA	1:b:601:MET:HG2	1.85	0.58
1:h:598:ILE:HA	1:h:601:MET:HG2	1.85	0.58
1:j:335:LYS:NZ	1:j:356:CYS:SG	2.71	0.58
1:j:772:TYR:CE1	1:k:770:LEU:HD23	2.37	0.58
1:j:779:LEU:HD13	1:k:774:ARG:NE	2.18	0.58
1:H:702:ALA:H	1:I:690:ARG:HH12	1.50	0.58
1:I:772:TYR:CE1	1:J:770:LEU:HD23	2.37	0.58
1:L:713:SER:O	1:L:716:VAL:HG12	2.02	0.58
1:M:779:LEU:HD13	1:N:774:ARG:NE	2.18	0.58
1:Q:570:ASP:HA	1:Q:573:LYS:HE2	1.84	0.58
1:W:598:ILE:HA	1:W:601:MET:HG2	1.85	0.58
1:b:654:LEU:O	1:b:657:SER:OG	2.20	0.58
1:g:772:TYR:CE1	1:h:770:LEU:HD23	2.37	0.58
1:l:490:ASP:HB3	1:l:491:PRO:HD2	1.84	0.58
1:E:713:SER:O	1:E:716:VAL:HG12	2.02	0.58
1:M:598:ILE:HA	1:M:601:MET:HG2	1.85	0.58
1:T:685:ARG:NE	1:T:689:GLU:OE2	2.37	0.58
1:a:598:ILE:HA	1:a:601:MET:HG2	1.85	0.58
1:d:490:ASP:HB3	1:d:491:PRO:HD2	1.84	0.58
1:d:779:LEU:HD13	1:e:774:ARG:NE	2.18	0.58
1:h:702:ALA:H	1:i:690:ARG:HH12	1.50	0.58
1:h:779:LEU:HD13	1:i:774:ARG:NE	2.18	0.58
1:i:335:LYS:NZ	1:i:356:CYS:SG	2.71	0.58
1:D:490:ASP:HB3	1:D:491:PRO:HD2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:490:ASP:HB3	1:H:491:PRO:HD2	1.84	0.58
1:I:713:SER:O	1:I:716:VAL:HG12	2.02	0.58
1:V:506:LYS:HZ3	1:V:523:PHE:HB3	1.67	0.58
1:W:506:LYS:HZ3	1:W:523:PHE:HB3	1.66	0.58
1:f:685:ARG:NE	1:f:689:GLU:OE2	2.37	0.58
1:h:685:ARG:NE	1:h:689:GLU:OE2	2.37	0.58
1:A:598:ILE:HA	1:A:601:MET:HG2	1.85	0.58
1:B:685:ARG:NE	1:B:689:GLU:OE2	2.37	0.58
1:C:779:LEU:HD13	1:D:774:ARG:NE	2.18	0.58
1:I:685:ARG:NE	1:I:689:GLU:OE2	2.37	0.58
1:K:531:THR:HG22	1:K:588:PHE:CE2	2.39	0.58
1:N:685:ARG:NE	1:N:689:GLU:OE2	2.37	0.58
1:O:654:LEU:O	1:O:657:SER:OG	2.20	0.58
1:P:713:SER:O	1:P:716:VAL:HG12	2.02	0.58
1:Q:531:THR:HG22	1:Q:588:PHE:CE2	2.39	0.58
1:T:654:LEU:O	1:T:657:SER:OG	2.20	0.58
1:X:779:LEU:HD13	1:Y:774:ARG:NE	2.18	0.58
1:Y:713:SER:O	1:Y:716:VAL:HG12	2.02	0.58
1:b:685:ARG:NE	1:b:689:GLU:OE2	2.37	0.58
1:d:772:TYR:CE1	1:e:770:LEU:HD23	2.37	0.58
1:e:490:ASP:HB3	1:e:491:PRO:HD2	1.84	0.58
1:m:685:ARG:NE	1:m:689:GLU:OE2	2.37	0.58
1:A:531:THR:HG22	1:A:588:PHE:CE2	2.39	0.58
1:D:685:ARG:NE	1:D:689:GLU:OE2	2.37	0.58
1:E:531:THR:HG22	1:E:588:PHE:CE2	2.39	0.58
1:G:685:ARG:NE	1:G:689:GLU:OE2	2.37	0.58
1:H:531:THR:HG22	1:H:588:PHE:CE2	2.39	0.58
1:J:570:ASP:HA	1:J:573:LYS:HE2	1.84	0.58
1:M:570:ASP:HA	1:M:573:LYS:HE2	1.84	0.58
1:N:654:LEU:O	1:N:657:SER:OG	2.20	0.58
1:O:685:ARG:NE	1:O:689:GLU:OE2	2.37	0.58
1:V:702:ALA:H	1:W:690:ARG:HH12	1.50	0.58
1:Z:702:ALA:H	1:a:690:ARG:HH12	1.50	0.58
1:i:598:ILE:HA	1:i:601:MET:HG2	1.85	0.58
1:i:654:LEU:O	1:i:657:SER:OG	2.20	0.58
1:m:598:ILE:HA	1:m:601:MET:HG2	1.85	0.58
1:C:13:TYR:HH	1:D:85:HIS:CE1	2.19	0.58
1:J:685:ARG:NE	1:J:689:GLU:OE2	2.37	0.58
1:T:531:THR:HG22	1:T:588:PHE:CE2	2.39	0.58
1:U:531:THR:HG22	1:U:588:PHE:CE2	2.39	0.58
1:X:713:SER:O	1:X:716:VAL:HG12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:685:ARG:NE	1:Z:689:GLU:OE2	2.37	0.58
1:a:654:LEU:O	1:a:657:SER:OG	2.20	0.58
1:a:685:ARG:NE	1:a:689:GLU:OE2	2.37	0.58
1:i:713:SER:O	1:i:716:VAL:HG12	2.02	0.58
1:m:654:LEU:O	1:m:657:SER:OG	2.20	0.58
1:C:490:ASP:HB3	1:C:491:PRO:HD2	1.84	0.58
1:E:685:ARG:NE	1:E:689:GLU:OE2	2.37	0.58
1:K:666:THR:O	1:K:669:GLN:NE2	2.37	0.58
1:N:666:THR:O	1:N:669:GLN:NE2	2.37	0.58
1:Q:666:THR:O	1:Q:669:GLN:NE2	2.37	0.58
1:U:685:ARG:NE	1:U:689:GLU:OE2	2.37	0.58
1:Y:13:TYR:HH	1:Z:85:HIS:CE1	2.19	0.58
1:Y:531:THR:HG22	1:Y:588:PHE:CE2	2.39	0.58
1:a:779:LEU:HD13	1:b:774:ARG:NE	2.18	0.58
1:g:685:ARG:NE	1:g:689:GLU:OE2	2.37	0.58
1:k:685:ARG:NE	1:k:689:GLU:OE2	2.37	0.58
1:A:752:ALA:N	1:m:761:ARG:HH12	2.03	0.57
1:A:780:GLU:HA	1:A:783:LYS:HZ3	1.69	0.57
1:C:685:ARG:NE	1:C:689:GLU:OE2	2.37	0.57
1:L:531:THR:HG22	1:L:588:PHE:CE2	2.39	0.57
1:L:685:ARG:NE	1:L:689:GLU:OE2	2.37	0.57
1:N:531:THR:HG22	1:N:588:PHE:CE2	2.39	0.57
1:O:531:THR:HG22	1:O:588:PHE:CE2	2.39	0.57
1:P:780:GLU:HA	1:P:783:LYS:HZ3	1.69	0.57
1:Q:506:LYS:HZ3	1:Q:523:PHE:HB3	1.69	0.57
1:Q:685:ARG:NE	1:Q:689:GLU:OE2	2.37	0.57
1:Z:335:LYS:NZ	1:Z:356:CYS:SG	2.71	0.57
1:Z:666:THR:O	1:Z:669:GLN:NE2	2.37	0.57
1:c:531:THR:HG22	1:c:588:PHE:CE2	2.39	0.57
1:c:685:ARG:NE	1:c:689:GLU:OE2	2.37	0.57
1:c:713:SER:O	1:c:716:VAL:HG12	2.02	0.57
1:e:666:THR:O	1:e:669:GLN:NE2	2.37	0.57
1:i:531:THR:HG22	1:i:588:PHE:CE2	2.39	0.57
1:j:685:ARG:NE	1:j:689:GLU:OE2	2.37	0.57
1:B:531:THR:HG22	1:B:588:PHE:CE2	2.39	0.57
1:F:780:GLU:HA	1:F:783:LYS:HZ3	1.69	0.57
1:J:531:THR:HG22	1:J:588:PHE:CE2	2.39	0.57
1:S:761:ARG:HH12	1:T:752:ALA:N	2.03	0.57
1:V:13:TYR:HH	1:W:85:HIS:CE1	2.19	0.57
1:b:666:THR:O	1:b:669:GLN:NE2	2.37	0.57
1:f:531:THR:HG22	1:f:588:PHE:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:531:THR:HG22	1:j:588:PHE:CE2	2.39	0.57
1:B:666:THR:O	1:B:669:GLN:NE2	2.37	0.57
1:B:761:ARG:HH12	1:C:752:ALA:N	2.03	0.57
1:D:531:THR:HG22	1:D:588:PHE:CE2	2.39	0.57
1:G:654:LEU:O	1:G:657:SER:OG	2.20	0.57
1:H:666:THR:O	1:H:669:GLN:NE2	2.37	0.57
1:I:598:ILE:HA	1:I:601:MET:HG2	1.85	0.57
1:L:13:TYR:HH	1:M:85:HIS:CE1	2.18	0.57
1:M:685:ARG:NE	1:M:689:GLU:OE2	2.37	0.57
1:O:761:ARG:HH12	1:P:752:ALA:N	2.03	0.57
1:S:598:ILE:HA	1:S:601:MET:HG2	1.85	0.57
1:V:335:LYS:NZ	1:V:356:CYS:SG	2.71	0.57
1:b:761:ARG:HH12	1:c:752:ALA:N	2.03	0.57
1:f:666:THR:O	1:f:669:GLN:NE2	2.37	0.57
1:i:761:ARG:HH12	1:j:752:ALA:N	2.03	0.57
1:A:666:THR:O	1:A:669:GLN:NE2	2.37	0.57
1:A:685:ARG:NE	1:A:689:GLU:OE2	2.37	0.57
1:G:761:ARG:HH12	1:H:752:ALA:N	2.03	0.57
1:J:779:LEU:HD13	1:K:774:ARG:NE	2.18	0.57
1:N:598:ILE:HA	1:N:601:MET:HG2	1.85	0.57
1:O:598:ILE:HA	1:O:601:MET:HG2	1.85	0.57
1:Q:761:ARG:HH12	1:R:752:ALA:N	2.03	0.57
1:V:598:ILE:HA	1:V:601:MET:HG2	1.85	0.57
1:W:531:THR:HG22	1:W:588:PHE:CE2	2.39	0.57
1:W:685:ARG:NE	1:W:689:GLU:OE2	2.37	0.57
1:Y:666:THR:O	1:Y:669:GLN:NE2	2.37	0.57
1:b:13:TYR:HH	1:c:85:HIS:CE1	2.19	0.57
1:d:702:ALA:H	1:e:690:ARG:HH12	1.50	0.57
1:g:761:ARG:HH12	1:h:752:ALA:N	2.03	0.57
1:i:685:ARG:NE	1:i:689:GLU:OE2	2.37	0.57
1:j:598:ILE:HA	1:j:601:MET:HG2	1.85	0.57
1:k:761:ARG:HH12	1:l:752:ALA:N	2.03	0.57
1:A:469:GLN:OE1	1:A:496:THR:OG1	2.23	0.57
1:E:176:LEU:HD22	1:E:210:GLU:HB3	1.87	0.57
1:F:685:ARG:NE	1:F:689:GLU:OE2	2.37	0.57
1:G:469:GLN:OE1	1:G:496:THR:OG1	2.23	0.57
1:I:666:THR:O	1:I:669:GLN:NE2	2.37	0.57
1:K:685:ARG:NE	1:K:689:GLU:OE2	2.37	0.57
1:L:335:LYS:NZ	1:L:356:CYS:SG	2.71	0.57
1:M:469:GLN:OE1	1:M:496:THR:OG1	2.23	0.57
1:S:685:ARG:NE	1:S:689:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:761:ARG:HH12	1:U:752:ALA:N	2.03	0.57
1:X:469:GLN:OE1	1:X:496:THR:OG1	2.23	0.57
1:X:654:LEU:O	1:X:657:SER:OG	2.20	0.57
1:Y:761:ARG:HH12	1:Z:752:ALA:N	2.03	0.57
1:Z:531:THR:HG22	1:Z:588:PHE:CE2	2.39	0.57
1:c:666:THR:O	1:c:669:GLN:NE2	2.37	0.57
1:e:685:ARG:NE	1:e:689:GLU:OE2	2.37	0.57
1:f:13:TYR:HH	1:g:85:HIS:CE1	2.19	0.57
1:h:666:THR:O	1:h:669:GLN:NE2	2.37	0.57
1:l:335:LYS:NZ	1:l:356:CYS:SG	2.71	0.57
1:l:654:LEU:O	1:l:657:SER:OG	2.20	0.57
1:l:702:ALA:H	1:m:690:ARG:HH12	1.50	0.57
1:D:335:LYS:NZ	1:D:356:CYS:SG	2.71	0.57
1:D:469:GLN:OE1	1:D:496:THR:OG1	2.23	0.57
1:H:598:ILE:HA	1:H:601:MET:HG2	1.85	0.57
1:I:531:THR:HG22	1:I:588:PHE:CE2	2.39	0.57
1:K:469:GLN:OE1	1:K:496:THR:OG1	2.23	0.57
1:Q:13:TYR:HH	1:R:85:HIS:CE1	2.19	0.57
1:R:176:LEU:HD22	1:R:210:GLU:HB3	1.87	0.57
1:R:685:ARG:NE	1:R:689:GLU:OE2	2.37	0.57
1:U:506:LYS:NZ	1:U:523:PHE:HB3	2.20	0.57
1:W:506:LYS:NZ	1:W:523:PHE:HB3	2.20	0.57
1:W:761:ARG:HH12	1:X:752:ALA:N	2.03	0.57
1:X:176:LEU:HD22	1:X:210:GLU:HB3	1.87	0.57
1:a:469:GLN:OE1	1:a:496:THR:OG1	2.23	0.57
1:a:761:ARG:HH12	1:b:752:ALA:N	2.03	0.57
1:b:469:GLN:OE1	1:b:496:THR:OG1	2.23	0.57
1:c:598:ILE:HA	1:c:601:MET:HG2	1.85	0.57
1:e:176:LEU:HD22	1:e:210:GLU:HB3	1.87	0.57
1:e:761:ARG:HH12	1:f:752:ALA:N	2.03	0.57
1:f:780:GLU:HA	1:f:783:LYS:HZ3	1.70	0.57
1:g:598:ILE:HA	1:g:601:MET:HG2	1.85	0.57
1:j:469:GLN:OE1	1:j:496:THR:OG1	2.23	0.57
1:j:666:THR:O	1:j:669:GLN:NE2	2.37	0.57
1:l:531:THR:HG22	1:l:588:PHE:CE2	2.39	0.57
1:H:685:ARG:NE	1:H:689:GLU:OE2	2.37	0.57
1:J:761:ARG:HH12	1:K:752:ALA:N	2.03	0.57
1:K:761:ARG:HH12	1:L:752:ALA:N	2.03	0.57
1:L:469:GLN:OE1	1:L:496:THR:OG1	2.23	0.57
1:L:666:THR:O	1:L:669:GLN:NE2	2.37	0.57
1:M:176:LEU:HD22	1:M:210:GLU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:654:LEU:O	1:M:657:SER:OG	2.20	0.57
1:O:666:THR:O	1:O:669:GLN:NE2	2.37	0.57
1:P:176:LEU:HD22	1:P:210:GLU:HB3	1.87	0.57
1:Q:469:GLN:OE1	1:Q:496:THR:OG1	2.23	0.57
1:S:654:LEU:O	1:S:657:SER:OG	2.20	0.57
1:a:176:LEU:HD22	1:a:210:GLU:HB3	1.87	0.57
1:b:531:THR:HG22	1:b:588:PHE:CE2	2.39	0.57
1:d:176:LEU:HD22	1:d:210:GLU:HB3	1.87	0.57
1:d:531:THR:HG22	1:d:588:PHE:CE2	2.39	0.57
1:e:531:THR:HG22	1:e:588:PHE:CE2	2.39	0.57
1:i:506:LYS:NZ	1:i:523:PHE:HB3	2.20	0.57
1:k:531:THR:HG22	1:k:588:PHE:CE2	2.39	0.57
1:A:176:LEU:HD22	1:A:210:GLU:HB3	1.87	0.57
1:E:761:ARG:HH12	1:F:752:ALA:N	2.03	0.57
1:G:531:THR:HG22	1:G:588:PHE:CE2	2.39	0.57
1:L:506:LYS:NZ	1:L:523:PHE:HB3	2.20	0.57
1:M:531:THR:HG22	1:M:588:PHE:CE2	2.39	0.57
1:O:176:LEU:HD22	1:O:210:GLU:HB3	1.87	0.57
1:O:506:LYS:NZ	1:O:523:PHE:HB3	2.20	0.57
1:P:598:ILE:HA	1:P:601:MET:HG2	1.85	0.57
1:P:761:ARG:HH12	1:Q:752:ALA:N	2.03	0.57
1:R:469:GLN:OE1	1:R:496:THR:OG1	2.23	0.57
1:R:666:THR:O	1:R:669:GLN:NE2	2.37	0.57
1:T:469:GLN:OE1	1:T:496:THR:OG1	2.23	0.57
1:W:176:LEU:HD22	1:W:210:GLU:HB3	1.87	0.57
1:X:685:ARG:NE	1:X:689:GLU:OE2	2.37	0.57
1:g:506:LYS:NZ	1:g:523:PHE:HB3	2.20	0.57
1:l:506:LYS:NZ	1:l:523:PHE:HB3	2.20	0.57
1:m:469:GLN:OE1	1:m:496:THR:OG1	2.23	0.57
1:C:469:GLN:OE1	1:C:496:THR:OG1	2.23	0.57
1:C:666:THR:O	1:C:669:GLN:NE2	2.37	0.57
1:F:654:LEU:O	1:F:657:SER:OG	2.20	0.57
1:I:176:LEU:HD22	1:I:210:GLU:HB3	1.87	0.57
1:K:506:LYS:NZ	1:K:523:PHE:HB3	2.20	0.57
1:N:469:GLN:OE1	1:N:496:THR:OG1	2.23	0.57
1:P:531:THR:HG22	1:P:588:PHE:CE2	2.39	0.57
1:P:685:ARG:NE	1:P:689:GLU:OE2	2.37	0.57
1:Q:335:LYS:NZ	1:Q:356:CYS:SG	2.71	0.57
1:R:531:THR:HG22	1:R:588:PHE:CE2	2.39	0.57
1:R:702:ALA:H	1:S:690:ARG:HH12	1.50	0.57
1:S:506:LYS:NZ	1:S:523:PHE:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:469:GLN:OE1	1:U:496:THR:OG1	2.23	0.57
1:Z:501:SER:HB2	1:Z:568:VAL:HG13	1.87	0.57
1:Z:598:ILE:HA	1:Z:601:MET:HG2	1.85	0.57
1:g:531:THR:HG22	1:g:588:PHE:CE2	2.39	0.57
1:h:654:LEU:O	1:h:657:SER:OG	2.20	0.57
1:j:176:LEU:HD22	1:j:210:GLU:HB3	1.87	0.57
1:j:506:LYS:NZ	1:j:523:PHE:HB3	2.20	0.57
1:k:469:GLN:OE1	1:k:496:THR:OG1	2.23	0.57
1:l:13:TYR:HH	1:m:85:HIS:CE1	2.18	0.57
1:l:685:ARG:NE	1:l:689:GLU:OE2	2.37	0.57
1:B:176:LEU:HD22	1:B:210:GLU:HB3	1.87	0.57
1:C:501:SER:HB2	1:C:568:VAL:HG13	1.87	0.57
1:E:506:LYS:NZ	1:E:523:PHE:HB3	2.20	0.57
1:F:427:LEU:HD21	1:F:452:ARG:HD2	1.87	0.57
1:F:469:GLN:OE1	1:F:496:THR:OG1	2.23	0.57
1:F:531:THR:HG22	1:F:588:PHE:CE2	2.39	0.57
1:G:598:ILE:HA	1:G:601:MET:HG2	1.85	0.57
1:H:761:ARG:HH12	1:I:752:ALA:N	2.03	0.57
1:M:761:ARG:HH12	1:N:752:ALA:N	2.03	0.57
1:R:623:ARG:HG2	1:R:624:ASP:H	1.70	0.57
1:W:654:LEU:O	1:W:657:SER:OG	2.20	0.57
1:X:623:ARG:HG2	1:X:624:ASP:H	1.70	0.57
1:Y:506:LYS:NZ	1:Y:523:PHE:HB3	2.20	0.57
1:c:501:SER:HB2	1:c:568:VAL:HG13	1.87	0.57
1:c:623:ARG:HG2	1:c:624:ASP:H	1.70	0.57
1:d:501:SER:HB2	1:d:568:VAL:HG13	1.87	0.57
1:e:691:GLN:HE22	1:f:682:GLN:CG	2.18	0.57
1:e:761:ARG:HH12	1:f:751:LEU:C	2.13	0.57
1:j:501:SER:HB2	1:j:568:VAL:HG13	1.87	0.57
1:A:761:ARG:HH12	1:B:752:ALA:N	2.03	0.56
1:C:526:VAL:HG22	1:C:538:GLN:HE21	1.70	0.56
1:E:623:ARG:HG2	1:E:624:ASP:H	1.70	0.56
1:F:666:THR:O	1:F:669:GLN:NE2	2.37	0.56
1:G:506:LYS:NZ	1:G:523:PHE:HB3	2.20	0.56
1:H:176:LEU:HD22	1:H:210:GLU:HB3	1.87	0.56
1:J:427:LEU:HD21	1:J:452:ARG:HD2	1.87	0.56
1:J:761:ARG:HH12	1:K:751:LEU:C	2.13	0.56
1:M:501:SER:HB2	1:M:568:VAL:HG13	1.87	0.56
1:M:761:ARG:HH12	1:N:751:LEU:C	2.13	0.56
1:P:691:GLN:HE22	1:Q:682:GLN:CG	2.19	0.56
1:R:761:ARG:HH12	1:S:751:LEU:C	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:176:LEU:HD22	1:T:210:GLU:HB3	1.87	0.56
1:V:761:ARG:HH12	1:W:752:ALA:N	2.03	0.56
1:W:469:GLN:OE1	1:W:496:THR:OG1	2.23	0.56
1:X:761:ARG:HH12	1:Y:751:LEU:C	2.13	0.56
1:b:761:ARG:HH12	1:c:751:LEU:C	2.13	0.56
1:d:506:LYS:NZ	1:d:523:PHE:HB3	2.20	0.56
1:d:685:ARG:NE	1:d:689:GLU:OE2	2.37	0.56
1:e:506:LYS:NZ	1:e:523:PHE:HB3	2.20	0.56
1:f:335:LYS:NZ	1:f:356:CYS:SG	2.71	0.56
1:f:691:GLN:HE22	1:g:682:GLN:CG	2.19	0.56
1:g:691:GLN:HE22	1:h:682:GLN:CG	2.18	0.56
1:j:761:ARG:HH12	1:k:751:LEU:C	2.13	0.56
1:k:427:LEU:HD21	1:k:452:ARG:HD2	1.87	0.56
1:k:666:THR:O	1:k:669:GLN:NE2	2.37	0.56
1:m:501:SER:HB2	1:m:568:VAL:HG13	1.87	0.56
1:B:761:ARG:HH12	1:C:751:LEU:C	2.13	0.56
1:C:531:THR:HG22	1:C:588:PHE:CE2	2.39	0.56
1:D:598:ILE:HA	1:D:601:MET:HG2	1.85	0.56
1:F:506:LYS:NZ	1:F:523:PHE:HB3	2.20	0.56
1:I:623:ARG:HG2	1:I:624:ASP:H	1.70	0.56
1:I:761:ARG:HH12	1:J:752:ALA:N	2.03	0.56
1:J:691:GLN:HE22	1:K:682:GLN:CG	2.19	0.56
1:M:506:LYS:NZ	1:M:523:PHE:HB3	2.20	0.56
1:N:526:VAL:HG22	1:N:538:GLN:HE21	1.70	0.56
1:O:761:ARG:HH12	1:P:751:LEU:C	2.13	0.56
1:Q:427:LEU:HD21	1:Q:452:ARG:HD2	1.87	0.56
1:S:427:LEU:HD21	1:S:452:ARG:HD2	1.87	0.56
1:T:501:SER:HB2	1:T:568:VAL:HG13	1.87	0.56
1:T:623:ARG:HG2	1:T:624:ASP:H	1.70	0.56
1:U:761:ARG:HH12	1:V:752:ALA:N	2.03	0.56
1:V:685:ARG:NE	1:V:689:GLU:OE2	2.37	0.56
1:X:531:THR:HG22	1:X:588:PHE:CE2	2.39	0.56
1:Y:501:SER:HB2	1:Y:568:VAL:HG13	1.87	0.56
1:Y:685:ARG:NE	1:Y:689:GLU:OE2	2.37	0.56
1:Z:654:LEU:O	1:Z:657:SER:OG	2.20	0.56
1:b:501:SER:HB2	1:b:568:VAL:HG13	1.87	0.56
1:c:761:ARG:HH12	1:d:752:ALA:N	2.03	0.56
1:h:176:LEU:HD22	1:h:210:GLU:HB3	1.87	0.56
1:h:691:GLN:HE22	1:i:682:GLN:CG	2.19	0.56
1:i:666:THR:O	1:i:669:GLN:NE2	2.37	0.56
1:m:506:LYS:NZ	1:m:523:PHE:HB3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:531:THR:HG22	1:m:588:PHE:CE2	2.39	0.56
1:A:691:GLN:HE22	1:B:682:GLN:CG	2.19	0.56
1:B:506:LYS:NZ	1:B:523:PHE:HB3	2.20	0.56
1:B:623:ARG:HG2	1:B:624:ASP:H	1.70	0.56
1:D:506:LYS:NZ	1:D:523:PHE:HB3	2.20	0.56
1:E:666:THR:O	1:E:669:GLN:NE2	2.37	0.56
1:E:681:GLU:OE1	1:F:675:HIS:NE2	2.24	0.56
1:G:335:LYS:NZ	1:G:356:CYS:SG	2.71	0.56
1:G:666:THR:O	1:G:669:GLN:NE2	2.37	0.56
1:H:469:GLN:OE1	1:H:496:THR:OG1	2.23	0.56
1:H:623:ARG:HG2	1:H:624:ASP:H	1.70	0.56
1:I:526:VAL:HG22	1:I:538:GLN:HE21	1.70	0.56
1:J:469:GLN:OE1	1:J:496:THR:OG1	2.23	0.56
1:K:25:VAL:HG21	1:K:79:GLY:HA3	1.88	0.56
1:L:623:ARG:HG2	1:L:624:ASP:H	1.70	0.56
1:L:761:ARG:HH12	1:M:752:ALA:N	2.03	0.56
1:N:176:LEU:HD22	1:N:210:GLU:HB3	1.87	0.56
1:N:501:SER:HB2	1:N:568:VAL:HG13	1.87	0.56
1:O:623:ARG:HG2	1:O:624:ASP:H	1.70	0.56
1:P:427:LEU:HD21	1:P:452:ARG:HD2	1.87	0.56
1:P:506:LYS:NZ	1:P:523:PHE:HB3	2.20	0.56
1:Q:176:LEU:HD22	1:Q:210:GLU:HB3	1.87	0.56
1:Q:501:SER:HB2	1:Q:568:VAL:HG13	1.87	0.56
1:Q:526:VAL:HG22	1:Q:538:GLN:HE21	1.70	0.56
1:R:427:LEU:HD21	1:R:452:ARG:HD2	1.88	0.56
1:S:666:THR:O	1:S:669:GLN:NE2	2.37	0.56
1:S:761:ARG:HH12	1:T:751:LEU:C	2.13	0.56
1:T:427:LEU:HD21	1:T:452:ARG:HD2	1.87	0.56
1:T:506:LYS:NZ	1:T:523:PHE:HB3	2.20	0.56
1:T:666:THR:O	1:T:669:GLN:NE2	2.37	0.56
1:U:623:ARG:HG2	1:U:624:ASP:H	1.70	0.56
1:W:666:THR:O	1:W:669:GLN:NE2	2.37	0.56
1:X:501:SER:HB2	1:X:568:VAL:HG13	1.87	0.56
1:X:506:LYS:NZ	1:X:523:PHE:HB3	2.20	0.56
1:Y:175:ARG:HD3	1:Y:213:LEU:HD22	1.88	0.56
1:Y:691:GLN:HE22	1:Z:682:GLN:CG	2.19	0.56
1:Z:427:LEU:HD21	1:Z:452:ARG:HD2	1.88	0.56
1:Z:761:ARG:HH12	1:a:751:LEU:C	2.13	0.56
1:a:501:SER:HB2	1:a:568:VAL:HG13	1.87	0.56
1:a:691:GLN:HE22	1:b:682:GLN:CG	2.18	0.56
1:b:176:LEU:HD22	1:b:210:GLU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:506:LYS:NZ	1:b:523:PHE:HB3	2.20	0.56
1:c:427:LEU:HD21	1:c:452:ARG:HD2	1.87	0.56
1:c:469:GLN:OE1	1:c:496:THR:OG1	2.23	0.56
1:c:506:LYS:NZ	1:c:523:PHE:HB3	2.20	0.56
1:d:761:ARG:HH12	1:e:751:LEU:C	2.13	0.56
1:e:501:SER:HB2	1:e:568:VAL:HG13	1.87	0.56
1:f:176:LEU:HD22	1:f:210:GLU:HB3	1.87	0.56
1:f:427:LEU:HD21	1:f:452:ARG:HD2	1.87	0.56
1:f:501:SER:HB2	1:f:568:VAL:HG13	1.87	0.56
1:f:506:LYS:NZ	1:f:523:PHE:HB3	2.20	0.56
1:f:761:ARG:HH12	1:g:752:ALA:N	2.03	0.56
1:g:469:GLN:OE1	1:g:496:THR:OG1	2.23	0.56
1:h:526:VAL:HG22	1:h:538:GLN:HE21	1.70	0.56
1:h:761:ARG:HH12	1:i:751:LEU:C	2.13	0.56
1:h:761:ARG:HH12	1:i:752:ALA:N	2.03	0.56
1:k:506:LYS:NZ	1:k:523:PHE:HB3	2.20	0.56
1:k:761:ARG:HH12	1:l:751:LEU:C	2.13	0.56
1:m:623:ARG:HG2	1:m:624:ASP:H	1.70	0.56
1:A:506:LYS:NZ	1:A:523:PHE:HB3	2.20	0.56
1:D:666:THR:O	1:D:669:GLN:NE2	2.37	0.56
1:E:761:ARG:HH12	1:F:751:LEU:C	2.13	0.56
1:F:175:ARG:HD3	1:F:213:LEU:HD22	1.88	0.56
1:G:761:ARG:HH12	1:H:751:LEU:C	2.13	0.56
1:H:761:ARG:HH12	1:I:751:LEU:C	2.13	0.56
1:K:761:ARG:HH12	1:L:751:LEU:C	2.13	0.56
1:P:501:SER:HB2	1:P:568:VAL:HG13	1.87	0.56
1:R:761:ARG:HH12	1:S:752:ALA:N	2.03	0.56
1:S:531:THR:HG22	1:S:588:PHE:CE2	2.39	0.56
1:T:526:VAL:HG22	1:T:538:GLN:HE21	1.71	0.56
1:U:691:GLN:HE22	1:V:682:GLN:CG	2.19	0.56
1:V:531:THR:HG22	1:V:588:PHE:CE2	2.39	0.56
1:W:761:ARG:HH12	1:X:751:LEU:C	2.13	0.56
1:X:175:ARG:HD3	1:X:213:LEU:HD22	1.88	0.56
1:X:666:THR:O	1:X:669:GLN:NE2	2.37	0.56
1:Y:176:LEU:HD22	1:Y:210:GLU:HB3	1.87	0.56
1:Y:526:VAL:HG22	1:Y:538:GLN:HE21	1.71	0.56
1:Z:506:LYS:NZ	1:Z:523:PHE:HB3	2.20	0.56
1:d:691:GLN:HE22	1:e:682:GLN:CG	2.19	0.56
1:f:469:GLN:OE1	1:f:496:THR:OG1	2.23	0.56
1:g:761:ARG:HH12	1:h:751:LEU:C	2.13	0.56
1:l:666:THR:O	1:l:669:GLN:NE2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:691:GLN:HE22	1:m:682:GLN:CG	2.19	0.56
1:m:526:VAL:HG22	1:m:538:GLN:HE21	1.70	0.56
1:m:666:THR:O	1:m:669:GLN:NE2	2.37	0.56
1:A:85:HIS:CE1	1:m:13:TYR:HH	2.19	0.56
1:A:751:LEU:C	1:m:761:ARG:HH12	2.13	0.56
1:C:739:GLY:HA2	1:D:734:ARG:NH2	2.21	0.56
1:D:761:ARG:HH12	1:E:751:LEU:C	2.13	0.56
1:E:526:VAL:HG22	1:E:538:GLN:HE21	1.70	0.56
1:E:691:GLN:HE22	1:F:682:GLN:CG	2.19	0.56
1:F:623:ARG:HG2	1:F:624:ASP:H	1.70	0.56
1:G:739:GLY:HA2	1:H:734:ARG:NH2	2.21	0.56
1:I:469:GLN:OE1	1:I:496:THR:OG1	2.23	0.56
1:J:526:VAL:HG22	1:J:538:GLN:HE21	1.70	0.56
1:M:691:GLN:HE22	1:N:682:GLN:CG	2.19	0.56
1:N:623:ARG:HG2	1:N:624:ASP:H	1.70	0.56
1:O:739:GLY:HA2	1:P:734:ARG:NH2	2.21	0.56
1:P:739:GLY:HA2	1:Q:734:ARG:NH2	2.21	0.56
1:T:175:ARG:HD3	1:T:213:LEU:HD22	1.88	0.56
1:T:691:GLN:HE22	1:U:682:GLN:CG	2.19	0.56
1:U:25:VAL:HG21	1:U:79:GLY:HA3	1.88	0.56
1:U:666:THR:O	1:U:669:GLN:NE2	2.37	0.56
1:V:176:LEU:HD22	1:V:210:GLU:HB3	1.87	0.56
1:V:469:GLN:OE1	1:V:496:THR:OG1	2.23	0.56
1:V:666:THR:O	1:V:669:GLN:NE2	2.37	0.56
1:X:761:ARG:HH12	1:Y:752:ALA:N	2.03	0.56
1:b:790:VAL:O	1:b:794:LYS:HG3	2.06	0.56
1:d:739:GLY:HA2	1:e:734:ARG:NH2	2.21	0.56
1:e:739:GLY:HA2	1:f:734:ARG:NH2	2.21	0.56
1:g:666:THR:O	1:g:669:GLN:NE2	2.37	0.56
1:h:739:GLY:HA2	1:i:734:ARG:NH2	2.21	0.56
1:i:501:SER:HB2	1:i:568:VAL:HG13	1.87	0.56
1:j:526:VAL:HG22	1:j:538:GLN:HE21	1.70	0.56
1:j:761:ARG:HH12	1:k:752:ALA:N	2.03	0.56
1:k:526:VAL:HG22	1:k:538:GLN:HE21	1.70	0.56
1:l:761:ARG:HH12	1:m:751:LEU:C	2.13	0.56
1:A:501:SER:HB2	1:A:568:VAL:HG13	1.87	0.56
1:A:682:GLN:CG	1:m:691:GLN:HE22	2.18	0.56
1:D:761:ARG:HH12	1:E:752:ALA:N	2.03	0.56
1:D:790:VAL:O	1:D:794:LYS:HG3	2.06	0.56
1:E:469:GLN:OE1	1:E:496:THR:OG1	2.23	0.56
1:F:526:VAL:HG22	1:F:538:GLN:HE21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:761:ARG:HH12	1:G:752:ALA:N	2.03	0.56
1:H:790:VAL:O	1:H:794:LYS:HG3	2.06	0.56
1:K:623:ARG:HG2	1:K:624:ASP:H	1.70	0.56
1:K:739:GLY:HA2	1:L:734:ARG:NH2	2.21	0.56
1:K:790:VAL:O	1:K:794:LYS:HG3	2.06	0.56
1:L:761:ARG:HH12	1:M:751:LEU:C	2.13	0.56
1:N:761:ARG:HH12	1:O:752:ALA:N	2.03	0.56
1:O:691:GLN:HE22	1:P:682:GLN:CG	2.19	0.56
1:P:761:ARG:HH12	1:Q:751:LEU:C	2.13	0.56
1:Q:506:LYS:NZ	1:Q:523:PHE:HB3	2.20	0.56
1:R:790:VAL:O	1:R:794:LYS:HG3	2.06	0.56
1:S:175:ARG:HD3	1:S:213:LEU:HD22	1.88	0.56
1:S:469:GLN:OE1	1:S:496:THR:OG1	2.23	0.56
1:U:739:GLY:HA2	1:V:734:ARG:NH2	2.21	0.56
1:U:761:ARG:HH12	1:V:751:LEU:C	2.13	0.56
1:V:175:ARG:HD3	1:V:213:LEU:HD22	1.88	0.56
1:V:739:GLY:HA2	1:W:734:ARG:NH2	2.21	0.56
1:W:175:ARG:HD3	1:W:213:LEU:HD22	1.88	0.56
1:X:25:VAL:HG21	1:X:79:GLY:HA3	1.88	0.56
1:X:790:VAL:O	1:X:794:LYS:HG3	2.06	0.56
1:Y:427:LEU:HD21	1:Y:452:ARG:HD2	1.88	0.56
1:Z:526:VAL:HG22	1:Z:538:GLN:HE21	1.70	0.56
1:b:427:LEU:HD21	1:b:452:ARG:HD2	1.87	0.56
1:c:691:GLN:HE22	1:d:682:GLN:CG	2.19	0.56
1:d:526:VAL:HG22	1:d:538:GLN:HE21	1.71	0.56
1:h:175:ARG:HD3	1:h:213:LEU:HD22	1.88	0.56
1:h:469:GLN:OE1	1:h:496:THR:OG1	2.23	0.56
1:h:531:THR:HG22	1:h:588:PHE:CE2	2.39	0.56
1:i:469:GLN:OE1	1:i:496:THR:OG1	2.23	0.56
1:i:790:VAL:O	1:i:794:LYS:HG3	2.06	0.56
1:j:25:VAL:HG21	1:j:79:GLY:HA3	1.88	0.56
1:l:175:ARG:HD3	1:l:213:LEU:HD22	1.88	0.56
1:A:526:VAL:HG22	1:A:538:GLN:HE21	1.71	0.56
1:B:469:GLN:OE1	1:B:496:THR:OG1	2.23	0.56
1:F:761:ARG:HH12	1:G:751:LEU:C	2.13	0.56
1:G:700:GLU:HA	1:G:703:ARG:HB3	1.88	0.56
1:H:501:SER:HB2	1:H:568:VAL:HG13	1.87	0.56
1:H:739:GLY:HA2	1:I:734:ARG:NH2	2.21	0.56
1:I:25:VAL:HG21	1:I:79:GLY:HA3	1.88	0.56
1:I:175:ARG:HD3	1:I:213:LEU:HD22	1.88	0.56
1:J:176:LEU:HD22	1:J:210:GLU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:25:VAL:HG21	1:L:79:GLY:HA3	1.88	0.56
1:L:790:VAL:O	1:L:794:LYS:HG3	2.06	0.56
1:M:13:TYR:HH	1:N:85:HIS:CE1	2.18	0.56
1:M:25:VAL:HG21	1:M:79:GLY:HA3	1.88	0.56
1:N:790:VAL:O	1:N:794:LYS:HG3	2.06	0.56
1:O:427:LEU:HD21	1:O:452:ARG:HD2	1.87	0.56
1:Q:761:ARG:HH12	1:R:751:LEU:C	2.13	0.56
1:R:175:ARG:HD3	1:R:213:LEU:HD22	1.88	0.56
1:R:506:LYS:NZ	1:R:523:PHE:HB3	2.20	0.56
1:U:175:ARG:HD3	1:U:213:LEU:HD22	1.88	0.56
1:U:427:LEU:HD21	1:U:452:ARG:HD2	1.87	0.56
1:Y:623:ARG:HG2	1:Y:624:ASP:H	1.70	0.56
1:Z:175:ARG:HD3	1:Z:213:LEU:HD22	1.88	0.56
1:Z:691:GLN:HE22	1:a:682:GLN:CG	2.18	0.56
1:b:526:VAL:HG22	1:b:538:GLN:HE21	1.71	0.56
1:d:427:LEU:HD21	1:d:452:ARG:HD2	1.87	0.56
1:d:761:ARG:HH12	1:e:752:ALA:N	2.03	0.56
1:e:13:TYR:HH	1:f:85:HIS:CE1	2.19	0.56
1:e:469:GLN:OE1	1:e:496:THR:OG1	2.23	0.56
1:g:175:ARG:HD3	1:g:213:LEU:HD22	1.88	0.56
1:g:654:LEU:O	1:g:657:SER:OG	2.20	0.56
1:g:790:VAL:O	1:g:794:LYS:HG3	2.06	0.56
1:h:700:GLU:HA	1:h:703:ARG:HB3	1.88	0.56
1:i:176:LEU:HD22	1:i:210:GLU:HB3	1.87	0.56
1:i:526:VAL:HG22	1:i:538:GLN:HE21	1.70	0.56
1:i:691:GLN:HE22	1:j:682:GLN:CG	2.19	0.56
1:k:176:LEU:HD22	1:k:210:GLU:HB3	1.87	0.56
1:k:654:LEU:O	1:k:657:SER:OG	2.20	0.56
1:l:501:SER:HB2	1:l:568:VAL:HG13	1.87	0.56
1:l:761:ARG:HH12	1:m:752:ALA:N	2.03	0.56
1:A:25:VAL:HG21	1:A:79:GLY:HA3	1.88	0.56
1:D:13:TYR:HH	1:E:85:HIS:CE1	2.19	0.56
1:D:176:LEU:HD22	1:D:210:GLU:HB3	1.87	0.56
1:D:501:SER:HB2	1:D:568:VAL:HG13	1.87	0.56
1:E:427:LEU:HD21	1:E:452:ARG:HD2	1.87	0.56
1:F:691:GLN:HE22	1:G:682:GLN:CG	2.19	0.56
1:G:427:LEU:HD21	1:G:452:ARG:HD2	1.87	0.56
1:H:691:GLN:HE22	1:I:682:GLN:CG	2.19	0.56
1:I:506:LYS:NZ	1:I:523:PHE:HB3	2.20	0.56
1:J:790:VAL:O	1:J:794:LYS:HG3	2.06	0.56
1:K:654:LEU:O	1:K:657:SER:OG	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:691:GLN:HE22	1:L:682:GLN:CG	2.19	0.56
1:L:175:ARG:HD3	1:L:213:LEU:HD22	1.88	0.56
1:R:526:VAL:HG22	1:R:538:GLN:HE21	1.71	0.56
1:S:526:VAL:HG22	1:S:538:GLN:HE21	1.71	0.56
1:S:739:GLY:HA2	1:T:734:ARG:NH2	2.21	0.56
1:Y:469:GLN:OE1	1:Y:496:THR:OG1	2.23	0.56
1:Y:761:ARG:HH12	1:Z:751:LEU:C	2.13	0.56
1:Z:469:GLN:OE1	1:Z:496:THR:OG1	2.23	0.56
1:Z:739:GLY:HA2	1:a:734:ARG:NH2	2.21	0.56
1:Z:790:VAL:O	1:Z:794:LYS:HG3	2.06	0.56
1:a:526:VAL:HG22	1:a:538:GLN:HE21	1.70	0.56
1:a:623:ARG:HG2	1:a:624:ASP:H	1.70	0.56
1:d:175:ARG:HD3	1:d:213:LEU:HD22	1.88	0.56
1:d:623:ARG:HG2	1:d:624:ASP:H	1.70	0.56
1:f:25:VAL:HG21	1:f:79:GLY:HA3	1.88	0.56
1:g:700:GLU:HA	1:g:703:ARG:HB3	1.88	0.56
1:j:790:VAL:O	1:j:794:LYS:HG3	2.06	0.56
1:k:25:VAL:HG21	1:k:79:GLY:HA3	1.88	0.56
1:k:790:VAL:O	1:k:794:LYS:HG3	2.06	0.56
1:l:427:LEU:HD21	1:l:452:ARG:HD2	1.87	0.56
1:C:427:LEU:HD21	1:C:452:ARG:HD2	1.87	0.56
1:C:506:LYS:NZ	1:C:523:PHE:HB3	2.20	0.56
1:D:427:LEU:HD21	1:D:452:ARG:HD2	1.87	0.56
1:D:526:VAL:HG22	1:D:538:GLN:HE21	1.70	0.56
1:D:691:GLN:HE22	1:E:682:GLN:CG	2.19	0.56
1:F:739:GLY:HA2	1:G:734:ARG:NH2	2.21	0.56
1:G:176:LEU:HD22	1:G:210:GLU:HB3	1.87	0.56
1:G:501:SER:HB2	1:G:568:VAL:HG13	1.87	0.56
1:G:790:VAL:O	1:G:794:LYS:HG3	2.06	0.56
1:H:506:LYS:NZ	1:H:523:PHE:HB3	2.20	0.56
1:I:13:TYR:HH	1:J:85:HIS:CE1	2.18	0.56
1:I:691:GLN:HE22	1:J:682:GLN:CG	2.19	0.56
1:L:654:LEU:O	1:L:657:SER:OG	2.20	0.56
1:L:691:GLN:HE22	1:M:682:GLN:CG	2.18	0.56
1:N:175:ARG:HD3	1:N:213:LEU:HD22	1.88	0.56
1:N:691:GLN:HE22	1:O:682:GLN:CG	2.19	0.56
1:P:469:GLN:OE1	1:P:496:THR:OG1	2.23	0.56
1:T:25:VAL:HG21	1:T:79:GLY:HA3	1.88	0.56
1:T:700:GLU:HA	1:T:703:ARG:HB3	1.88	0.56
1:V:506:LYS:NZ	1:V:523:PHE:HB3	2.20	0.56
1:W:700:GLU:HA	1:W:703:ARG:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:25:VAL:HG21	1:Y:79:GLY:HA3	1.88	0.56
1:a:506:LYS:NZ	1:a:523:PHE:HB3	2.20	0.56
1:a:666:THR:O	1:a:669:GLN:NE2	2.37	0.56
1:a:761:ARG:HH12	1:b:751:LEU:C	2.13	0.56
1:a:790:VAL:O	1:a:794:LYS:HG3	2.06	0.56
1:b:691:GLN:HE22	1:c:682:GLN:CG	2.19	0.56
1:f:654:LEU:O	1:f:657:SER:OG	2.20	0.56
1:f:700:GLU:HA	1:f:703:ARG:HB3	1.88	0.56
1:k:691:GLN:HE22	1:l:682:GLN:CG	2.19	0.56
1:l:176:LEU:HD22	1:l:210:GLU:HB3	1.87	0.56
1:l:469:GLN:OE1	1:l:496:THR:OG1	2.23	0.56
1:m:176:LEU:HD22	1:m:210:GLU:HB3	1.87	0.56
1:B:427:LEU:HD21	1:B:452:ARG:HD2	1.88	0.56
1:B:526:VAL:HG22	1:B:538:GLN:HE21	1.70	0.56
1:C:691:GLN:HE22	1:D:682:GLN:CG	2.18	0.56
1:E:25:VAL:HG21	1:E:79:GLY:HA3	1.88	0.56
1:E:501:SER:HB2	1:E:568:VAL:HG13	1.87	0.56
1:I:501:SER:HB2	1:I:568:VAL:HG13	1.87	0.56
1:I:739:GLY:HA2	1:J:734:ARG:NH2	2.21	0.56
1:J:175:ARG:HD3	1:J:213:LEU:HD22	1.88	0.56
1:J:623:ARG:HG2	1:J:624:ASP:H	1.70	0.56
1:K:176:LEU:HD22	1:K:210:GLU:HB3	1.87	0.56
1:M:526:VAL:HG22	1:M:538:GLN:HE21	1.71	0.56
1:Q:691:GLN:HE22	1:R:682:GLN:CG	2.19	0.56
1:Q:790:VAL:O	1:Q:794:LYS:HG3	2.06	0.56
1:T:761:ARG:HH12	1:U:751:LEU:C	2.13	0.56
1:V:654:LEU:O	1:V:657:SER:OG	2.20	0.56
1:W:501:SER:HB2	1:W:568:VAL:HG13	1.87	0.56
1:a:531:THR:HG22	1:a:588:PHE:CE2	2.39	0.56
1:c:25:VAL:HG21	1:c:79:GLY:HA3	1.88	0.56
1:g:739:GLY:HA2	1:h:734:ARG:NH2	2.21	0.56
1:j:691:GLN:HE22	1:k:682:GLN:CG	2.19	0.56
1:m:790:VAL:O	1:m:794:LYS:HG3	2.06	0.56
1:A:761:ARG:HH12	1:B:751:LEU:C	2.13	0.55
1:B:25:VAL:HG21	1:B:79:GLY:HA3	1.88	0.55
1:C:700:GLU:HA	1:C:703:ARG:HB3	1.88	0.55
1:C:761:ARG:HH12	1:D:752:ALA:N	2.03	0.55
1:F:176:LEU:HD22	1:F:210:GLU:HB3	1.87	0.55
1:G:262:ASP:OD1	1:G:263:VAL:N	2.40	0.55
1:H:13:TYR:HH	1:I:85:HIS:CE1	2.19	0.55
1:H:262:ASP:OD1	1:H:263:VAL:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:526:VAL:HG22	1:H:538:GLN:HE21	1.70	0.55
1:J:25:VAL:HG21	1:J:79:GLY:HA3	1.88	0.55
1:J:501:SER:HB2	1:J:568:VAL:HG13	1.87	0.55
1:K:427:LEU:HD21	1:K:452:ARG:HD2	1.87	0.55
1:M:739:GLY:HA2	1:N:734:ARG:NH2	2.21	0.55
1:N:427:LEU:HD21	1:N:452:ARG:HD2	1.87	0.55
1:O:526:VAL:HG22	1:O:538:GLN:HE21	1.70	0.55
1:P:623:ARG:HG2	1:P:624:ASP:H	1.70	0.55
1:R:262:ASP:OD1	1:R:263:VAL:N	2.40	0.55
1:R:654:LEU:O	1:R:657:SER:OG	2.20	0.55
1:R:739:GLY:HA2	1:S:734:ARG:NH2	2.21	0.55
1:S:335:LYS:NZ	1:S:356:CYS:SG	2.71	0.55
1:S:501:SER:HB2	1:S:568:VAL:HG13	1.87	0.55
1:V:501:SER:HB2	1:V:568:VAL:HG13	1.87	0.55
1:V:526:VAL:HG22	1:V:538:GLN:HE21	1.71	0.55
1:Z:13:TYR:HH	1:a:85:HIS:CE1	2.19	0.55
1:Z:176:LEU:HD22	1:Z:210:GLU:HB3	1.87	0.55
1:Z:700:GLU:HA	1:Z:703:ARG:HB3	1.88	0.55
1:b:25:VAL:HG21	1:b:79:GLY:HA3	1.88	0.55
1:b:739:GLY:HA2	1:c:734:ARG:NH2	2.21	0.55
1:c:176:LEU:HD22	1:c:210:GLU:HB3	1.87	0.55
1:c:761:ARG:HH12	1:d:751:LEU:C	2.13	0.55
1:c:790:VAL:O	1:c:794:LYS:HG3	2.06	0.55
1:d:666:THR:O	1:d:669:GLN:NE2	2.37	0.55
1:e:700:GLU:HA	1:e:703:ARG:HB3	1.88	0.55
1:f:526:VAL:HG22	1:f:538:GLN:HE21	1.70	0.55
1:f:739:GLY:HA2	1:g:734:ARG:NH2	2.21	0.55
1:g:13:TYR:HH	1:h:85:HIS:CE1	2.19	0.55
1:g:501:SER:HB2	1:g:568:VAL:HG13	1.87	0.55
1:g:526:VAL:HG22	1:g:538:GLN:HE21	1.70	0.55
1:h:790:VAL:O	1:h:794:LYS:HG3	2.06	0.55
1:i:427:LEU:HD21	1:i:452:ARG:HD2	1.87	0.55
1:k:175:ARG:HD3	1:k:213:LEU:HD22	1.88	0.55
1:l:790:VAL:O	1:l:794:LYS:HG3	2.06	0.55
1:A:623:ARG:HG2	1:A:624:ASP:H	1.70	0.55
1:B:175:ARG:HD3	1:B:213:LEU:HD22	1.88	0.55
1:C:761:ARG:HH12	1:D:751:LEU:C	2.13	0.55
1:E:654:LEU:O	1:E:657:SER:OG	2.20	0.55
1:G:691:GLN:HE22	1:H:682:GLN:CG	2.18	0.55
1:H:25:VAL:HG21	1:H:79:GLY:HA3	1.88	0.55
1:I:790:VAL:O	1:I:794:LYS:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:739:GLY:HA2	1:K:734:ARG:NH2	2.21	0.55
1:N:25:VAL:HG21	1:N:79:GLY:HA3	1.88	0.55
1:N:506:LYS:NZ	1:N:523:PHE:HB3	2.20	0.55
1:O:790:VAL:O	1:O:794:LYS:HG3	2.06	0.55
1:P:25:VAL:HG21	1:P:79:GLY:HA3	1.88	0.55
1:Q:175:ARG:HD3	1:Q:213:LEU:HD22	1.88	0.55
1:Q:623:ARG:HG2	1:Q:624:ASP:H	1.70	0.55
1:Q:739:GLY:HA2	1:R:734:ARG:NH2	2.21	0.55
1:R:501:SER:HB2	1:R:568:VAL:HG13	1.87	0.55
1:R:691:GLN:HE22	1:S:682:GLN:CG	2.19	0.55
1:T:739:GLY:HA2	1:U:734:ARG:NH2	2.21	0.55
1:X:700:GLU:HA	1:X:703:ARG:HB3	1.88	0.55
1:Y:739:GLY:HA2	1:Z:734:ARG:NH2	2.21	0.55
1:Z:262:ASP:OD1	1:Z:263:VAL:N	2.39	0.55
1:Z:761:ARG:HH12	1:a:752:ALA:N	2.03	0.55
1:a:175:ARG:HD3	1:a:213:LEU:HD22	1.88	0.55
1:h:623:ARG:HG2	1:h:624:ASP:H	1.70	0.55
1:m:25:VAL:HG21	1:m:79:GLY:HA3	1.88	0.55
1:m:700:GLU:HA	1:m:703:ARG:HB3	1.88	0.55
1:B:739:GLY:HA2	1:C:734:ARG:NH2	2.21	0.55
1:C:176:LEU:HD22	1:C:210:GLU:HB3	1.87	0.55
1:I:262:ASP:OD1	1:I:263:VAL:N	2.40	0.55
1:K:654:LEU:HD12	1:L:534:HIS:CE1	2.42	0.55
1:L:700:GLU:HA	1:L:703:ARG:HB3	1.88	0.55
1:L:739:GLY:HA2	1:M:734:ARG:NH2	2.21	0.55
1:M:623:ARG:HG2	1:M:624:ASP:H	1.70	0.55
1:M:700:GLU:HA	1:M:703:ARG:HB3	1.88	0.55
1:M:790:VAL:O	1:M:794:LYS:HG3	2.06	0.55
1:R:13:TYR:HH	1:S:85:HIS:CE1	2.19	0.55
1:S:176:LEU:HD22	1:S:210:GLU:HB3	1.87	0.55
1:S:623:ARG:HG2	1:S:624:ASP:H	1.70	0.55
1:S:725:GLU:O	1:S:729:ARG:HG2	2.07	0.55
1:U:790:VAL:O	1:U:794:LYS:HG3	2.06	0.55
1:V:691:GLN:HE22	1:W:682:GLN:CG	2.19	0.55
1:W:25:VAL:HG21	1:W:79:GLY:HA3	1.88	0.55
1:X:427:LEU:HD21	1:X:452:ARG:HD2	1.87	0.55
1:Y:262:ASP:OD1	1:Y:263:VAL:N	2.40	0.55
1:Y:790:VAL:O	1:Y:794:LYS:HG3	2.06	0.55
1:c:175:ARG:HD3	1:c:213:LEU:HD22	1.88	0.55
1:d:700:GLU:HA	1:d:703:ARG:HB3	1.88	0.55
1:e:25:VAL:HG21	1:e:79:GLY:HA3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:790:VAL:O	1:f:794:LYS:HG3	2.06	0.55
1:i:262:ASP:OD1	1:i:263:VAL:N	2.39	0.55
1:i:739:GLY:HA2	1:j:734:ARG:NH2	2.21	0.55
1:l:262:ASP:OD1	1:l:263:VAL:N	2.40	0.55
1:B:262:ASP:OD1	1:B:263:VAL:N	2.40	0.55
1:C:262:ASP:OD1	1:C:263:VAL:N	2.39	0.55
1:D:654:LEU:HD12	1:E:534:HIS:CE1	2.42	0.55
1:D:739:GLY:HA2	1:E:734:ARG:NH2	2.21	0.55
1:E:175:ARG:HD3	1:E:213:LEU:HD22	1.88	0.55
1:E:790:VAL:O	1:E:794:LYS:HG3	2.06	0.55
1:F:262:ASP:OD1	1:F:263:VAL:N	2.40	0.55
1:L:526:VAL:HG22	1:L:538:GLN:HE21	1.71	0.55
1:M:725:GLU:O	1:M:729:ARG:HG2	2.07	0.55
1:N:739:GLY:HA2	1:O:734:ARG:NH2	2.21	0.55
1:P:654:LEU:HD12	1:Q:534:HIS:CE1	2.42	0.55
1:Q:725:GLU:O	1:Q:729:ARG:HG2	2.07	0.55
1:R:25:VAL:HG21	1:R:79:GLY:HA3	1.88	0.55
1:S:700:GLU:HA	1:S:703:ARG:HB3	1.88	0.55
1:V:790:VAL:O	1:V:794:LYS:HG3	2.06	0.55
1:W:427:LEU:HD21	1:W:452:ARG:HD2	1.87	0.55
1:W:691:GLN:HE22	1:X:682:GLN:CG	2.19	0.55
1:X:526:VAL:HG22	1:X:538:GLN:HE21	1.70	0.55
1:b:654:LEU:HD12	1:c:534:HIS:CE1	2.42	0.55
1:c:13:TYR:HH	1:d:85:HIS:CE1	2.19	0.55
1:d:469:GLN:OE1	1:d:496:THR:OG1	2.23	0.55
1:f:654:LEU:HD12	1:g:534:HIS:CE1	2.42	0.55
1:f:761:ARG:HH12	1:g:751:LEU:C	2.13	0.55
1:g:25:VAL:HG21	1:g:79:GLY:HA3	1.88	0.55
1:h:725:GLU:O	1:h:729:ARG:HG2	2.07	0.55
1:i:700:GLU:HA	1:i:703:ARG:HB3	1.88	0.55
1:C:623:ARG:HG2	1:C:624:ASP:H	1.70	0.55
1:C:725:GLU:O	1:C:729:ARG:HG2	2.07	0.55
1:C:790:VAL:O	1:C:794:LYS:HG3	2.06	0.55
1:D:700:GLU:HA	1:D:703:ARG:HB3	1.88	0.55
1:F:25:VAL:HG21	1:F:79:GLY:HA3	1.88	0.55
1:M:666:THR:O	1:M:669:GLN:NE2	2.37	0.55
1:O:469:GLN:OE1	1:O:496:THR:OG1	2.23	0.55
1:P:13:TYR:HH	1:Q:85:HIS:CE1	2.19	0.55
1:P:725:GLU:O	1:P:729:ARG:HG2	2.07	0.55
1:Q:654:LEU:O	1:Q:657:SER:OG	2.20	0.55
1:V:761:ARG:HH12	1:W:751:LEU:C	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:623:ARG:HG2	1:W:624:ASP:H	1.70	0.55
1:Z:623:ARG:HG2	1:Z:624:ASP:H	1.70	0.55
1:e:175:ARG:HD3	1:e:213:LEU:HD22	1.88	0.55
1:e:427:LEU:HD21	1:e:452:ARG:HD2	1.87	0.55
1:h:427:LEU:HD21	1:h:452:ARG:HD2	1.88	0.55
1:j:623:ARG:HG2	1:j:624:ASP:H	1.70	0.55
1:j:654:LEU:HD12	1:k:534:HIS:CE1	2.42	0.55
1:j:700:GLU:HA	1:j:703:ARG:HB3	1.88	0.55
1:m:427:LEU:HD21	1:m:452:ARG:HD2	1.87	0.55
1:A:700:GLU:HA	1:A:703:ARG:HB3	1.88	0.55
1:A:790:VAL:O	1:A:794:LYS:HG3	2.06	0.55
1:E:654:LEU:HD12	1:F:534:HIS:CE1	2.42	0.55
1:F:654:LEU:HD12	1:G:534:HIS:CE1	2.42	0.55
1:H:175:ARG:HD3	1:H:213:LEU:HD22	1.88	0.55
1:J:262:ASP:OD1	1:J:263:VAL:N	2.40	0.55
1:J:506:LYS:NZ	1:J:523:PHE:HB3	2.20	0.55
1:L:176:LEU:HD22	1:L:210:GLU:HB3	1.87	0.55
1:L:427:LEU:HD21	1:L:452:ARG:HD2	1.87	0.55
1:L:533:ASP:HB3	1:L:588:PHE:HD2	1.72	0.55
1:L:654:LEU:HD12	1:M:534:HIS:CE1	2.42	0.55
1:O:533:ASP:HB3	1:O:588:PHE:HD2	1.72	0.55
1:O:700:GLU:HA	1:O:703:ARG:HB3	1.88	0.55
1:O:737:GLY:O	1:O:741:VAL:HG23	2.07	0.55
1:P:175:ARG:HD3	1:P:213:LEU:HD22	1.88	0.55
1:P:691:GLN:HE22	1:Q:682:GLN:HG2	1.72	0.55
1:Q:25:VAL:HG21	1:Q:79:GLY:HA3	1.88	0.55
1:T:725:GLU:O	1:T:729:ARG:HG2	2.07	0.55
1:T:737:GLY:O	1:T:741:VAL:HG23	2.07	0.55
1:U:176:LEU:HD22	1:U:210:GLU:HB3	1.87	0.55
1:X:654:LEU:HD12	1:Y:534:HIS:CE1	2.42	0.55
1:X:739:GLY:HA2	1:Y:734:ARG:NH2	2.21	0.55
1:Y:725:GLU:O	1:Y:729:ARG:HG2	2.07	0.55
1:Z:25:VAL:HG21	1:Z:79:GLY:HA3	1.88	0.55
1:Z:725:GLU:O	1:Z:729:ARG:HG2	2.07	0.55
1:a:725:GLU:O	1:a:729:ARG:HG2	2.07	0.55
1:a:739:GLY:HA2	1:b:734:ARG:NH2	2.21	0.55
1:b:262:ASP:OD1	1:b:263:VAL:N	2.39	0.55
1:b:623:ARG:HG2	1:b:624:ASP:H	1.70	0.55
1:c:737:GLY:O	1:c:741:VAL:HG23	2.07	0.55
1:c:739:GLY:HA2	1:d:734:ARG:NH2	2.21	0.55
1:d:262:ASP:OD1	1:d:263:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:737:GLY:O	1:d:741:VAL:HG23	2.07	0.55
1:f:691:GLN:HE22	1:g:682:GLN:HG2	1.72	0.55
1:f:737:GLY:O	1:f:741:VAL:HG23	2.07	0.55
1:h:13:TYR:HH	1:i:85:HIS:CE1	2.19	0.55
1:h:506:LYS:NZ	1:h:523:PHE:HB3	2.20	0.55
1:i:737:GLY:O	1:i:741:VAL:HG23	2.07	0.55
1:k:262:ASP:OD1	1:k:263:VAL:N	2.40	0.55
1:k:739:GLY:HA2	1:l:734:ARG:NH2	2.21	0.55
1:l:623:ARG:HG2	1:l:624:ASP:H	1.70	0.55
1:A:534:HIS:CE1	1:m:654:LEU:HD12	2.42	0.55
1:A:682:GLN:HG2	1:m:691:GLN:HE22	1.72	0.55
1:E:691:GLN:HE22	1:F:682:GLN:HG2	1.72	0.55
1:E:737:GLY:O	1:E:741:VAL:HG23	2.07	0.55
1:F:501:SER:HB2	1:F:568:VAL:HG13	1.87	0.55
1:G:623:ARG:HG2	1:G:624:ASP:H	1.70	0.55
1:I:427:LEU:HD21	1:I:452:ARG:HD2	1.87	0.55
1:J:654:LEU:O	1:J:657:SER:OG	2.20	0.55
1:J:654:LEU:HD12	1:K:534:HIS:CE1	2.42	0.55
1:J:666:THR:O	1:J:669:GLN:NE2	2.37	0.55
1:M:175:ARG:HD3	1:M:213:LEU:HD22	1.88	0.55
1:M:654:LEU:HD12	1:N:534:HIS:CE1	2.42	0.55
1:Q:262:ASP:OD1	1:Q:263:VAL:N	2.40	0.55
1:Q:533:ASP:HB3	1:Q:588:PHE:HD2	1.72	0.55
1:U:501:SER:HB2	1:U:568:VAL:HG13	1.87	0.55
1:U:526:VAL:HG22	1:U:538:GLN:HE21	1.71	0.55
1:V:427:LEU:HD21	1:V:452:ARG:HD2	1.87	0.55
1:V:623:ARG:HG2	1:V:624:ASP:H	1.70	0.55
1:X:691:GLN:HE22	1:Y:682:GLN:HG2	1.72	0.55
1:X:737:GLY:O	1:X:741:VAL:HG23	2.07	0.55
1:a:533:ASP:HB3	1:a:588:PHE:HD2	1.72	0.55
1:c:262:ASP:OD1	1:c:263:VAL:N	2.40	0.55
1:d:725:GLU:O	1:d:729:ARG:HG2	2.07	0.55
1:d:790:VAL:O	1:d:794:LYS:HG3	2.06	0.55
1:f:533:ASP:HB3	1:f:588:PHE:HD2	1.72	0.55
1:f:725:GLU:O	1:f:729:ARG:HG2	2.07	0.55
1:g:623:ARG:HG2	1:g:624:ASP:H	1.70	0.55
1:i:25:VAL:HG21	1:i:79:GLY:HA3	1.88	0.55
1:i:623:ARG:HG2	1:i:624:ASP:H	1.70	0.55
1:j:262:ASP:OD1	1:j:263:VAL:N	2.40	0.55
1:j:691:GLN:HE22	1:k:682:GLN:HG2	1.72	0.55
1:l:25:VAL:HG21	1:l:79:GLY:HA3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:739:GLY:HA2	1:m:734:ARG:NH2	2.21	0.55
1:A:737:GLY:O	1:A:741:VAL:HG23	2.07	0.55
1:C:654:LEU:HD12	1:D:534:HIS:CE1	2.42	0.55
1:F:737:GLY:O	1:F:741:VAL:HG23	2.07	0.55
1:F:790:VAL:O	1:F:794:LYS:HG3	2.06	0.55
1:K:501:SER:HB2	1:K:568:VAL:HG13	1.87	0.55
1:K:700:GLU:HA	1:K:703:ARG:HB3	1.88	0.55
1:M:427:LEU:HD21	1:M:452:ARG:HD2	1.87	0.55
1:N:262:ASP:OD1	1:N:263:VAL:N	2.40	0.55
1:N:700:GLU:HA	1:N:703:ARG:HB3	1.88	0.55
1:N:737:GLY:O	1:N:741:VAL:HG23	2.07	0.55
1:T:262:ASP:OD1	1:T:263:VAL:N	2.40	0.55
1:T:790:VAL:O	1:T:794:LYS:HG3	2.06	0.55
1:U:13:TYR:HH	1:V:85:HIS:CE1	2.19	0.55
1:V:725:GLU:O	1:V:729:ARG:HG2	2.07	0.55
1:V:737:GLY:O	1:V:741:VAL:HG23	2.07	0.55
1:W:737:GLY:O	1:W:741:VAL:HG23	2.07	0.55
1:W:790:VAL:O	1:W:794:LYS:HG3	2.06	0.55
1:b:691:GLN:HE22	1:c:682:GLN:HG2	1.72	0.55
1:b:700:GLU:HA	1:b:703:ARG:HB3	1.88	0.55
1:b:725:GLU:O	1:b:729:ARG:HG2	2.07	0.55
1:e:623:ARG:HG2	1:e:624:ASP:H	1.70	0.55
1:g:427:LEU:HD21	1:g:452:ARG:HD2	1.88	0.55
1:g:737:GLY:O	1:g:741:VAL:HG23	2.07	0.55
1:i:175:ARG:HD3	1:i:213:LEU:HD22	1.88	0.55
1:i:761:ARG:HH12	1:j:751:LEU:C	2.13	0.55
1:k:623:ARG:HG2	1:k:624:ASP:H	1.70	0.55
1:A:427:LEU:HD21	1:A:452:ARG:HD2	1.88	0.55
1:A:691:GLN:HE22	1:B:682:GLN:HG2	1.72	0.55
1:A:777:LEU:HD13	1:m:783:LYS:HG2	1.89	0.55
1:C:654:LEU:O	1:C:657:SER:OG	2.20	0.55
1:D:725:GLU:O	1:D:729:ARG:HG2	2.07	0.55
1:G:25:VAL:HG21	1:G:79:GLY:HA3	1.88	0.55
1:H:427:LEU:HD21	1:H:452:ARG:HD2	1.87	0.55
1:H:654:LEU:HD12	1:I:534:HIS:CE1	2.42	0.55
1:I:761:ARG:HH12	1:J:751:LEU:C	2.13	0.55
1:K:335:LYS:NZ	1:K:356:CYS:SG	2.71	0.55
1:P:700:GLU:HA	1:P:703:ARG:HB3	1.88	0.55
1:S:691:GLN:HE22	1:T:682:GLN:CG	2.19	0.55
1:S:737:GLY:O	1:S:741:VAL:HG23	2.07	0.55
1:T:654:LEU:HD12	1:U:534:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:654:LEU:HD12	1:V:534:HIS:CE1	2.42	0.55
1:U:737:GLY:O	1:U:741:VAL:HG23	2.07	0.55
1:W:13:TYR:HH	1:X:85:HIS:CE1	2.19	0.55
1:W:725:GLU:O	1:W:729:ARG:HG2	2.07	0.55
1:W:739:GLY:HA2	1:X:734:ARG:NH2	2.21	0.55
1:X:262:ASP:OD1	1:X:263:VAL:N	2.40	0.55
1:X:691:GLN:HE22	1:Y:682:GLN:CG	2.19	0.55
1:Z:506:LYS:HZ3	1:Z:523:PHE:HB3	1.71	0.55
1:d:654:LEU:HD12	1:e:534:HIS:CE1	2.42	0.55
1:d:691:GLN:HE22	1:e:682:GLN:HG2	1.72	0.55
1:e:725:GLU:O	1:e:729:ARG:HG2	2.07	0.55
1:f:623:ARG:HG2	1:f:624:ASP:H	1.70	0.55
1:g:176:LEU:HD22	1:g:210:GLU:HB3	1.87	0.55
1:g:654:LEU:HD12	1:h:534:HIS:CE1	2.42	0.55
1:h:501:SER:HB2	1:h:568:VAL:HG13	1.87	0.55
1:h:533:ASP:HB3	1:h:588:PHE:HD2	1.72	0.55
1:i:654:LEU:HD12	1:j:534:HIS:CE1	2.42	0.55
1:j:427:LEU:HD21	1:j:452:ARG:HD2	1.88	0.55
1:j:739:GLY:HA2	1:k:734:ARG:NH2	2.21	0.55
1:k:725:GLU:O	1:k:729:ARG:HG2	2.07	0.55
1:A:654:LEU:HD12	1:B:534:HIS:CE1	2.42	0.55
1:A:725:GLU:O	1:A:729:ARG:HG2	2.07	0.55
1:C:25:VAL:HG21	1:C:79:GLY:HA3	1.88	0.55
1:D:25:VAL:HG21	1:D:79:GLY:HA3	1.88	0.55
1:D:623:ARG:HG2	1:D:624:ASP:H	1.70	0.55
1:D:737:GLY:O	1:D:741:VAL:HG23	2.07	0.55
1:F:700:GLU:HA	1:F:703:ARG:HB3	1.88	0.55
1:G:526:VAL:HG22	1:G:538:GLN:HE21	1.70	0.55
1:I:654:LEU:HD12	1:J:534:HIS:CE1	2.42	0.55
1:I:700:GLU:HA	1:I:703:ARG:HB3	1.88	0.55
1:I:737:GLY:O	1:I:741:VAL:HG23	2.07	0.55
1:J:725:GLU:O	1:J:729:ARG:HG2	2.07	0.55
1:K:725:GLU:O	1:K:729:ARG:HG2	2.07	0.55
1:K:737:GLY:O	1:K:741:VAL:HG23	2.07	0.55
1:L:737:GLY:O	1:L:741:VAL:HG23	2.07	0.55
1:M:533:ASP:HB3	1:M:588:PHE:HD2	1.72	0.55
1:N:654:LEU:HD12	1:O:534:HIS:CE1	2.42	0.55
1:N:761:ARG:HH12	1:O:751:LEU:C	2.13	0.55
1:O:654:LEU:HD12	1:P:534:HIS:CE1	2.42	0.55
1:O:725:GLU:O	1:O:729:ARG:HG2	2.07	0.55
1:Q:737:GLY:O	1:Q:741:VAL:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:262:ASP:OD1	1:U:263:VAL:N	2.40	0.55
1:V:700:GLU:HA	1:V:703:ARG:HB3	1.88	0.55
1:X:303:LYS:HE2	1:X:323:VAL:HG21	1.89	0.55
1:Y:737:GLY:O	1:Y:741:VAL:HG23	2.07	0.55
1:Z:654:LEU:HD12	1:a:534:HIS:CE1	2.42	0.55
1:a:700:GLU:HA	1:a:703:ARG:HB3	1.88	0.55
1:c:533:ASP:HB3	1:c:588:PHE:HD2	1.72	0.55
1:c:654:LEU:HD12	1:d:534:HIS:CE1	2.42	0.55
1:c:691:GLN:HE22	1:d:682:GLN:HG2	1.72	0.55
1:c:779:LEU:HD22	1:d:774:ARG:HH21	1.73	0.55
1:e:654:LEU:O	1:e:657:SER:OG	2.20	0.55
1:e:790:VAL:O	1:e:794:LYS:HG3	2.06	0.55
1:f:175:ARG:HD3	1:f:213:LEU:HD22	1.88	0.55
1:f:303:LYS:HE2	1:f:323:VAL:HG21	1.89	0.55
1:i:533:ASP:HB3	1:i:588:PHE:HD2	1.72	0.55
1:l:526:VAL:HG22	1:l:538:GLN:HE21	1.70	0.55
1:l:654:LEU:HD12	1:m:534:HIS:CE1	2.42	0.55
1:l:700:GLU:HA	1:l:703:ARG:HB3	1.88	0.55
1:l:725:GLU:O	1:l:729:ARG:HG2	2.07	0.55
1:A:303:LYS:HE2	1:A:323:VAL:HG21	1.89	0.54
1:B:691:GLN:HE22	1:C:682:GLN:CG	2.19	0.54
1:B:700:GLU:HA	1:B:703:ARG:HB3	1.88	0.54
1:D:175:ARG:HD3	1:D:213:LEU:HD22	1.88	0.54
1:E:739:GLY:HA2	1:F:734:ARG:NH2	2.21	0.54
1:F:783:LYS:HG2	1:G:777:LEU:HD13	1.89	0.54
1:J:533:ASP:HB3	1:J:588:PHE:HD2	1.72	0.54
1:J:783:LYS:HG2	1:K:777:LEU:HD13	1.89	0.54
1:K:175:ARG:HD3	1:K:213:LEU:HD22	1.88	0.54
1:M:303:LYS:HE2	1:M:323:VAL:HG21	1.90	0.54
1:M:783:LYS:HG2	1:N:777:LEU:HD13	1.89	0.54
1:O:501:SER:HB2	1:O:568:VAL:HG13	1.87	0.54
1:P:666:THR:O	1:P:669:GLN:NE2	2.37	0.54
1:S:691:GLN:HE22	1:T:682:GLN:HG2	1.72	0.54
1:X:533:ASP:HB3	1:X:588:PHE:HD2	1.72	0.54
1:X:783:LYS:HG2	1:Y:777:LEU:HD13	1.89	0.54
1:Y:783:LYS:HG2	1:Z:777:LEU:HD13	1.89	0.54
1:b:783:LYS:HG2	1:c:777:LEU:HD13	1.89	0.54
1:c:700:GLU:HA	1:c:703:ARG:HB3	1.88	0.54
1:c:725:GLU:O	1:c:729:ARG:HG2	2.07	0.54
1:d:25:VAL:HG21	1:d:79:GLY:HA3	1.88	0.54
1:e:262:ASP:OD1	1:e:263:VAL:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:783:LYS:HG2	1:f:777:LEU:HD13	1.89	0.54
1:g:303:LYS:HE2	1:g:323:VAL:HG21	1.90	0.54
1:j:175:ARG:HD3	1:j:213:LEU:HD22	1.88	0.54
1:j:725:GLU:O	1:j:729:ARG:HG2	2.07	0.54
1:k:783:LYS:HG2	1:l:777:LEU:HD13	1.90	0.54
1:m:737:GLY:O	1:m:741:VAL:HG23	2.07	0.54
1:A:734:ARG:NH2	1:m:739:GLY:HA2	2.21	0.54
1:B:790:VAL:O	1:B:794:LYS:HG3	2.06	0.54
1:D:654:LEU:O	1:D:657:SER:OG	2.20	0.54
1:H:533:ASP:HB3	1:H:588:PHE:HD2	1.72	0.54
1:H:794:LYS:HZ3	1:I:789:ASN:N	2.05	0.54
1:L:501:SER:HB2	1:L:568:VAL:HG13	1.87	0.54
1:O:175:ARG:HD3	1:O:213:LEU:HD22	1.88	0.54
1:P:303:LYS:HE2	1:P:323:VAL:HG21	1.89	0.54
1:Q:654:LEU:HD12	1:R:534:HIS:CE1	2.42	0.54
1:R:533:ASP:HB3	1:R:588:PHE:HD2	1.72	0.54
1:R:700:GLU:HA	1:R:703:ARG:HB3	1.88	0.54
1:R:737:GLY:O	1:R:741:VAL:HG23	2.07	0.54
1:S:303:LYS:HE2	1:S:323:VAL:HG21	1.89	0.54
1:T:533:ASP:HB3	1:T:588:PHE:HD2	1.72	0.54
1:T:691:GLN:HE22	1:U:682:GLN:HG2	1.72	0.54
1:U:533:ASP:HB3	1:U:588:PHE:HD2	1.72	0.54
1:U:725:GLU:O	1:U:729:ARG:HG2	2.07	0.54
1:V:25:VAL:HG21	1:V:79:GLY:HA3	1.88	0.54
1:V:691:GLN:HE22	1:W:682:GLN:HG2	1.72	0.54
1:W:533:ASP:HB3	1:W:588:PHE:HD2	1.72	0.54
1:W:654:LEU:HD12	1:X:534:HIS:CE1	2.42	0.54
1:Y:654:LEU:O	1:Y:657:SER:OG	2.20	0.54
1:Y:654:LEU:HD12	1:Z:534:HIS:CE1	2.42	0.54
1:Y:779:LEU:HD22	1:Z:774:ARG:HH21	1.73	0.54
1:a:737:GLY:O	1:a:741:VAL:HG23	2.07	0.54
1:d:533:ASP:HB3	1:d:588:PHE:HD2	1.72	0.54
1:f:262:ASP:OD1	1:f:263:VAL:N	2.39	0.54
1:f:783:LYS:HG2	1:g:777:LEU:HD13	1.89	0.54
1:j:737:GLY:O	1:j:741:VAL:HG23	2.07	0.54
1:j:783:LYS:HG2	1:k:777:LEU:HD13	1.89	0.54
1:k:737:GLY:O	1:k:741:VAL:HG23	2.07	0.54
1:l:737:GLY:O	1:l:741:VAL:HG23	2.07	0.54
1:m:725:GLU:O	1:m:729:ARG:HG2	2.07	0.54
1:A:774:ARG:HH21	1:m:779:LEU:HD22	1.73	0.54
1:A:783:LYS:HG2	1:B:777:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:ARG:HD3	1:C:213:LEU:HD22	1.88	0.54
1:E:303:LYS:HE2	1:E:323:VAL:HG21	1.89	0.54
1:E:783:LYS:HG2	1:F:777:LEU:HD13	1.89	0.54
1:F:303:LYS:HE2	1:F:323:VAL:HG21	1.89	0.54
1:K:262:ASP:OD1	1:K:263:VAL:N	2.40	0.54
1:L:783:LYS:HG2	1:M:777:LEU:HD13	1.89	0.54
1:M:737:GLY:O	1:M:741:VAL:HG23	2.07	0.54
1:O:262:ASP:OD1	1:O:263:VAL:N	2.40	0.54
1:P:790:VAL:O	1:P:794:LYS:HG3	2.06	0.54
1:Q:303:LYS:HE2	1:Q:323:VAL:HG21	1.89	0.54
1:S:25:VAL:HG21	1:S:79:GLY:HA3	1.88	0.54
1:S:654:LEU:HD12	1:T:534:HIS:CE1	2.42	0.54
1:S:783:LYS:HG2	1:T:777:LEU:HD13	1.89	0.54
1:S:790:VAL:O	1:S:794:LYS:HG3	2.06	0.54
1:V:654:LEU:HD12	1:W:534:HIS:CE1	2.42	0.54
1:W:303:LYS:HE2	1:W:323:VAL:HG21	1.89	0.54
1:Y:713:SER:HA	1:Z:704:LYS:HZ2	1.73	0.54
1:Z:737:GLY:O	1:Z:741:VAL:HG23	2.07	0.54
1:a:654:LEU:HD12	1:b:534:HIS:CE1	2.42	0.54
1:e:691:GLN:HE22	1:f:682:GLN:HG2	1.72	0.54
1:j:533:ASP:HB3	1:j:588:PHE:HD2	1.72	0.54
1:k:654:LEU:HD12	1:l:534:HIS:CE1	2.42	0.54
1:l:783:LYS:HG2	1:m:777:LEU:HD13	1.89	0.54
1:A:739:GLY:HA2	1:B:734:ARG:NH2	2.21	0.54
1:B:783:LYS:HG2	1:C:777:LEU:HD13	1.89	0.54
1:I:533:ASP:HB3	1:I:588:PHE:HD2	1.72	0.54
1:K:794:LYS:HZ3	1:L:789:ASN:N	2.06	0.54
1:M:262:ASP:OD1	1:M:263:VAL:N	2.40	0.54
1:O:794:LYS:HZ3	1:P:789:ASN:N	2.06	0.54
1:P:506:LYS:HZ3	1:P:523:PHE:HB3	1.73	0.54
1:P:654:LEU:O	1:P:657:SER:OG	2.20	0.54
1:Q:779:LEU:HD22	1:R:774:ARG:HH21	1.73	0.54
1:T:783:LYS:HG2	1:U:777:LEU:HD13	1.89	0.54
1:Y:533:ASP:HB3	1:Y:588:PHE:HD2	1.72	0.54
1:e:533:ASP:HB3	1:e:588:PHE:HD2	1.72	0.54
1:e:654:LEU:HD12	1:f:534:HIS:CE1	2.42	0.54
1:g:725:GLU:O	1:g:729:ARG:HG2	2.07	0.54
1:i:783:LYS:HG2	1:j:777:LEU:HD13	1.89	0.54
1:B:501:SER:HB2	1:B:568:VAL:HG13	1.87	0.54
1:B:533:ASP:HB3	1:B:588:PHE:HD2	1.72	0.54
1:B:654:LEU:O	1:B:657:SER:OG	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:725:GLU:O	1:F:729:ARG:HG2	2.07	0.54
1:G:654:LEU:HD12	1:H:534:HIS:CE1	2.42	0.54
1:G:737:GLY:O	1:G:741:VAL:HG23	2.07	0.54
1:H:779:LEU:HD22	1:I:774:ARG:HH21	1.72	0.54
1:J:315:ARG:NH1	1:J:316:LEU:O	2.41	0.54
1:L:779:LEU:HD22	1:M:774:ARG:HH21	1.72	0.54
1:N:725:GLU:O	1:N:729:ARG:HG2	2.07	0.54
1:O:25:VAL:HG21	1:O:79:GLY:HA3	1.88	0.54
1:P:526:VAL:HG22	1:P:538:GLN:HE21	1.70	0.54
1:U:691:GLN:HE22	1:V:682:GLN:HG2	1.72	0.54
1:V:262:ASP:OD1	1:V:263:VAL:N	2.39	0.54
1:V:315:ARG:NH1	1:V:316:LEU:O	2.41	0.54
1:Y:303:LYS:HE2	1:Y:323:VAL:HG21	1.89	0.54
1:Y:794:LYS:HZ3	1:Z:789:ASN:N	2.05	0.54
1:b:737:GLY:O	1:b:741:VAL:HG23	2.07	0.54
1:g:262:ASP:OD1	1:g:263:VAL:N	2.40	0.54
1:g:506:LYS:HZ3	1:g:523:PHE:HB3	1.70	0.54
1:j:303:LYS:HE2	1:j:323:VAL:HG21	1.90	0.54
1:A:315:ARG:NH1	1:A:316:LEU:O	2.41	0.54
1:D:262:ASP:OD1	1:D:263:VAL:N	2.40	0.54
1:D:315:ARG:NH1	1:D:316:LEU:O	2.41	0.54
1:F:315:ARG:NH1	1:F:316:LEU:O	2.41	0.54
1:G:725:GLU:O	1:G:729:ARG:HG2	2.07	0.54
1:H:700:GLU:HA	1:H:703:ARG:HB3	1.88	0.54
1:I:691:GLN:HE22	1:J:682:GLN:HG2	1.72	0.54
1:L:725:GLU:O	1:L:729:ARG:HG2	2.07	0.54
1:N:691:GLN:HE22	1:O:682:GLN:HG2	1.72	0.54
1:N:783:LYS:HG2	1:O:777:LEU:HD13	1.89	0.54
1:Q:700:GLU:HA	1:Q:703:ARG:HB3	1.88	0.54
1:Q:783:LYS:HG2	1:R:777:LEU:HD13	1.89	0.54
1:R:654:LEU:HD12	1:S:534:HIS:CE1	2.42	0.54
1:R:794:LYS:HZ3	1:S:789:ASN:N	2.06	0.54
1:T:315:ARG:NH1	1:T:316:LEU:O	2.41	0.54
1:W:315:ARG:NH1	1:W:316:LEU:O	2.41	0.54
1:X:725:GLU:O	1:X:729:ARG:HG2	2.07	0.54
1:b:175:ARG:HD3	1:b:213:LEU:HD22	1.88	0.54
1:e:315:ARG:NH1	1:e:316:LEU:O	2.41	0.54
1:g:691:GLN:HE22	1:h:682:GLN:HG2	1.72	0.54
1:h:25:VAL:HG21	1:h:79:GLY:HA3	1.88	0.54
1:k:700:GLU:HA	1:k:703:ARG:HB3	1.88	0.54
1:m:175:ARG:HD3	1:m:213:LEU:HD22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:262:ASP:OD1	1:m:263:VAL:N	2.39	0.54
1:B:691:GLN:HE22	1:C:682:GLN:HG2	1.72	0.54
1:B:737:GLY:O	1:B:741:VAL:HG23	2.07	0.54
1:D:691:GLN:HE22	1:E:682:GLN:HG2	1.72	0.54
1:F:533:ASP:HB3	1:F:588:PHE:HD2	1.72	0.54
1:I:315:ARG:NH1	1:I:316:LEU:O	2.41	0.54
1:J:700:GLU:HA	1:J:703:ARG:HB3	1.88	0.54
1:K:13:TYR:HH	1:L:85:HIS:CE1	2.19	0.54
1:K:779:LEU:HD22	1:L:774:ARG:HH21	1.73	0.54
1:L:315:ARG:NH1	1:L:316:LEU:O	2.41	0.54
1:N:335:LYS:NZ	1:N:356:CYS:SG	2.71	0.54
1:Y:700:GLU:HA	1:Y:703:ARG:HB3	1.88	0.54
1:Z:303:LYS:HE2	1:Z:323:VAL:HG21	1.89	0.54
1:Z:315:ARG:NH1	1:Z:316:LEU:O	2.41	0.54
1:Z:533:ASP:HB3	1:Z:588:PHE:HD2	1.72	0.54
1:c:315:ARG:NH1	1:c:316:LEU:O	2.41	0.54
1:c:699:ALA:HA	1:d:690:ARG:HH11	1.73	0.54
1:h:737:GLY:O	1:h:741:VAL:HG23	2.07	0.54
1:i:725:GLU:O	1:i:729:ARG:HG2	2.07	0.54
1:k:501:SER:HB2	1:k:568:VAL:HG13	1.87	0.54
1:k:533:ASP:HB3	1:k:588:PHE:HD2	1.72	0.54
1:B:654:LEU:HD12	1:C:534:HIS:CE1	2.42	0.54
1:B:725:GLU:O	1:B:729:ARG:HG2	2.07	0.54
1:C:533:ASP:HB3	1:C:588:PHE:HD2	1.72	0.54
1:E:700:GLU:HA	1:E:703:ARG:HB3	1.88	0.54
1:E:725:GLU:O	1:E:729:ARG:HG2	2.07	0.54
1:F:691:GLN:HE22	1:G:682:GLN:HG2	1.72	0.54
1:G:175:ARG:HD3	1:G:213:LEU:HD22	1.88	0.54
1:G:315:ARG:NH1	1:G:316:LEU:O	2.41	0.54
1:G:533:ASP:HB3	1:G:588:PHE:HD2	1.72	0.54
1:G:783:LYS:HG2	1:H:777:LEU:HD13	1.89	0.54
1:H:725:GLU:O	1:H:729:ARG:HG2	2.07	0.54
1:H:737:GLY:O	1:H:741:VAL:HG23	2.07	0.54
1:H:746:LEU:HD12	1:H:747:LYS:N	2.23	0.54
1:L:303:LYS:HE2	1:L:323:VAL:HG21	1.90	0.54
1:M:315:ARG:NH1	1:M:316:LEU:O	2.41	0.54
1:N:533:ASP:HB3	1:N:588:PHE:HD2	1.72	0.54
1:P:783:LYS:HG2	1:Q:777:LEU:HD13	1.89	0.54
1:P:794:LYS:HZ3	1:Q:789:ASN:N	2.06	0.54
1:Q:691:GLN:HE22	1:R:682:GLN:HG2	1.72	0.54
1:R:746:LEU:HD12	1:R:747:LYS:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:533:ASP:HB3	1:S:588:PHE:HD2	1.72	0.54
1:S:746:LEU:HD12	1:S:747:LYS:N	2.23	0.54
1:U:654:LEU:O	1:U:657:SER:OG	2.20	0.54
1:W:691:GLN:HE22	1:X:682:GLN:HG2	1.72	0.54
1:W:699:ALA:HA	1:X:690:ARG:HH11	1.73	0.54
1:W:794:LYS:HZ3	1:X:789:ASN:N	2.06	0.54
1:a:315:ARG:NH1	1:a:316:LEU:O	2.41	0.54
1:a:427:LEU:HD21	1:a:452:ARG:HD2	1.88	0.54
1:d:303:LYS:HE2	1:d:323:VAL:HG21	1.90	0.54
1:e:737:GLY:O	1:e:741:VAL:HG23	2.07	0.54
1:h:691:GLN:HE22	1:i:682:GLN:HG2	1.72	0.54
1:i:746:LEU:HD12	1:i:747:LYS:N	2.23	0.54
1:j:654:LEU:O	1:j:657:SER:OG	2.20	0.54
1:m:303:LYS:HE2	1:m:323:VAL:HG21	1.90	0.54
1:m:533:ASP:HB3	1:m:588:PHE:HD2	1.72	0.54
1:A:175:ARG:HD3	1:A:213:LEU:HD22	1.88	0.54
1:B:303:LYS:HE2	1:B:323:VAL:HG21	1.90	0.54
1:B:746:LEU:HD12	1:B:747:LYS:N	2.23	0.54
1:C:315:ARG:NH1	1:C:316:LEU:O	2.41	0.54
1:C:779:LEU:HD22	1:D:774:ARG:HH21	1.73	0.54
1:C:783:LYS:HG2	1:D:777:LEU:HD13	1.89	0.54
1:H:699:ALA:HA	1:I:690:ARG:HH11	1.73	0.54
1:I:746:LEU:HD12	1:I:747:LYS:N	2.23	0.54
1:T:699:ALA:HA	1:U:690:ARG:HH11	1.73	0.54
1:U:779:LEU:HD22	1:V:774:ARG:HH21	1.73	0.54
1:V:533:ASP:HB3	1:V:588:PHE:HD2	1.72	0.54
1:V:699:ALA:HA	1:W:690:ARG:HH11	1.73	0.54
1:V:794:LYS:HZ3	1:W:789:ASN:N	2.06	0.54
1:X:315:ARG:NH1	1:X:316:LEU:O	2.41	0.54
1:X:794:LYS:HZ3	1:Y:789:ASN:N	2.05	0.54
1:a:25:VAL:HG21	1:a:79:GLY:HA3	1.88	0.54
1:a:691:GLN:HE22	1:b:682:GLN:HG2	1.72	0.54
1:d:794:LYS:HZ3	1:e:789:ASN:N	2.05	0.54
1:e:303:LYS:HE2	1:e:323:VAL:HG21	1.89	0.54
1:f:794:LYS:HZ3	1:g:789:ASN:N	2.06	0.54
1:C:746:LEU:HD12	1:C:747:LYS:N	2.23	0.54
1:D:533:ASP:HB3	1:D:588:PHE:HD2	1.72	0.54
1:D:779:LEU:HD22	1:E:774:ARG:HH21	1.72	0.54
1:G:691:GLN:HE22	1:H:682:GLN:HG2	1.72	0.54
1:I:725:GLU:O	1:I:729:ARG:HG2	2.07	0.54
1:I:794:LYS:HZ3	1:J:789:ASN:N	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:746:LEU:HD12	1:J:747:LYS:N	2.23	0.54
1:L:691:GLN:HE22	1:M:682:GLN:HG2	1.72	0.54
1:M:691:GLN:HE22	1:N:682:GLN:HG2	1.72	0.54
1:T:770:LEU:HB2	1:T:774:ARG:NH1	2.22	0.54
1:a:303:LYS:HE2	1:a:323:VAL:HG21	1.90	0.54
1:a:770:LEU:HB2	1:a:774:ARG:NH1	2.22	0.54
1:c:501:SER:OG	1:c:566:ASP:OD2	2.26	0.54
1:c:746:LEU:HD12	1:c:747:LYS:N	2.23	0.54
1:f:746:LEU:HD12	1:f:747:LYS:N	2.23	0.54
1:g:699:ALA:HA	1:h:690:ARG:HH11	1.73	0.54
1:g:746:LEU:HD12	1:g:747:LYS:N	2.23	0.54
1:h:185:ARG:HH21	1:h:207:ALA:HB2	1.74	0.54
1:h:783:LYS:HG2	1:i:777:LEU:HD13	1.89	0.54
1:B:794:LYS:HZ3	1:C:789:ASN:N	2.07	0.53
1:C:474:ARG:CZ	1:C:492:GLU:HG2	2.39	0.53
1:C:794:LYS:HZ3	1:D:789:ASN:N	2.06	0.53
1:D:794:LYS:HZ3	1:E:789:ASN:N	2.06	0.53
1:J:737:GLY:O	1:J:741:VAL:HG23	2.07	0.53
1:P:315:ARG:NH1	1:P:316:LEU:O	2.41	0.53
1:R:725:GLU:O	1:R:729:ARG:HG2	2.07	0.53
1:T:303:LYS:HE2	1:T:323:VAL:HG21	1.89	0.53
1:U:713:SER:HA	1:V:704:LYS:HZ2	1.73	0.53
1:W:783:LYS:HG2	1:X:777:LEU:HD13	1.89	0.53
1:X:699:ALA:HA	1:Y:690:ARG:HH11	1.73	0.53
1:a:794:LYS:HZ3	1:b:789:ASN:N	2.06	0.53
1:b:315:ARG:NH1	1:b:316:LEU:O	2.41	0.53
1:c:303:LYS:HE2	1:c:323:VAL:HG21	1.90	0.53
1:c:526:VAL:HG22	1:c:538:GLN:HE21	1.70	0.53
1:d:783:LYS:HG2	1:e:777:LEU:HD13	1.89	0.53
1:e:779:LEU:HD22	1:f:774:ARG:HH21	1.73	0.53
1:h:499:SER:HA	1:h:512:ARG:HG3	1.91	0.53
1:h:794:LYS:HZ3	1:i:789:ASN:N	2.06	0.53
1:i:691:GLN:HE22	1:j:682:GLN:HG2	1.72	0.53
1:j:746:LEU:HD12	1:j:747:LYS:N	2.23	0.53
1:l:303:LYS:HE2	1:l:323:VAL:HG21	1.89	0.53
1:l:533:ASP:HB3	1:l:588:PHE:HD2	1.72	0.53
1:l:699:ALA:HA	1:m:690:ARG:HH11	1.73	0.53
1:A:474:ARG:CZ	1:A:492:GLU:HG2	2.39	0.53
1:B:315:ARG:NH1	1:B:316:LEU:O	2.41	0.53
1:C:691:GLN:HE22	1:D:682:GLN:HG2	1.72	0.53
1:D:501:SER:OG	1:D:566:ASP:OD2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:533:ASP:HB3	1:E:588:PHE:HD2	1.72	0.53
1:E:699:ALA:HA	1:F:690:ARG:HH11	1.73	0.53
1:F:185:ARG:HH21	1:F:207:ALA:HB2	1.74	0.53
1:G:501:SER:OG	1:G:566:ASP:OD2	2.27	0.53
1:H:691:GLN:HE22	1:I:682:GLN:HG2	1.72	0.53
1:I:185:ARG:HH21	1:I:207:ALA:HB2	1.73	0.53
1:I:783:LYS:HG2	1:J:777:LEU:HD13	1.89	0.53
1:J:303:LYS:HE2	1:J:323:VAL:HG21	1.90	0.53
1:K:746:LEU:HD12	1:K:747:LYS:N	2.23	0.53
1:L:474:ARG:CZ	1:L:492:GLU:HG2	2.39	0.53
1:N:699:ALA:HA	1:O:690:ARG:HH11	1.73	0.53
1:O:746:LEU:HD12	1:O:747:LYS:N	2.23	0.53
1:P:746:LEU:HD12	1:P:747:LYS:N	2.23	0.53
1:Q:315:ARG:NH1	1:Q:316:LEU:O	2.41	0.53
1:U:700:GLU:HA	1:U:703:ARG:HB3	1.88	0.53
1:W:262:ASP:OD1	1:W:263:VAL:N	2.40	0.53
1:Y:315:ARG:NH1	1:Y:316:LEU:O	2.41	0.53
1:Y:691:GLN:HE22	1:Z:682:GLN:HG2	1.72	0.53
1:Z:794:LYS:HZ3	1:a:789:ASN:N	2.07	0.53
1:d:315:ARG:NH1	1:d:316:LEU:O	2.41	0.53
1:d:499:SER:HA	1:d:512:ARG:HG3	1.91	0.53
1:d:746:LEU:HD12	1:d:747:LYS:N	2.23	0.53
1:e:499:SER:HA	1:e:512:ARG:HG3	1.91	0.53
1:h:303:LYS:HE2	1:h:323:VAL:HG21	1.89	0.53
1:h:474:ARG:CZ	1:h:492:GLU:HG2	2.39	0.53
1:j:499:SER:HA	1:j:512:ARG:HG3	1.91	0.53
1:j:699:ALA:HA	1:k:690:ARG:HH11	1.73	0.53
1:k:315:ARG:NH1	1:k:316:LEU:O	2.41	0.53
1:k:474:ARG:CZ	1:k:492:GLU:HG2	2.39	0.53
1:l:779:LEU:HD22	1:m:774:ARG:HH21	1.73	0.53
1:m:474:ARG:CZ	1:m:492:GLU:HG2	2.39	0.53
1:A:262:ASP:OD1	1:A:263:VAL:N	2.40	0.53
1:A:746:LEU:HD12	1:A:747:LYS:N	2.23	0.53
1:A:789:ASN:N	1:m:794:LYS:HZ3	2.06	0.53
1:E:185:ARG:HH21	1:E:207:ALA:HB2	1.74	0.53
1:E:315:ARG:NH1	1:E:316:LEU:O	2.41	0.53
1:E:499:SER:HA	1:E:512:ARG:HG3	1.91	0.53
1:F:699:ALA:HA	1:G:690:ARG:HH11	1.73	0.53
1:H:315:ARG:NH1	1:H:316:LEU:O	2.41	0.53
1:I:654:LEU:O	1:I:657:SER:OG	2.20	0.53
1:J:699:ALA:HA	1:K:690:ARG:HH11	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:470:VAL:HG12	1:L:495:PHE:HA	1.91	0.53
1:L:746:LEU:HD12	1:L:747:LYS:N	2.23	0.53
1:M:746:LEU:HD12	1:M:747:LYS:N	2.23	0.53
1:N:779:LEU:HD22	1:O:774:ARG:HH21	1.73	0.53
1:P:474:ARG:CZ	1:P:492:GLU:HG2	2.39	0.53
1:R:779:LEU:HD22	1:S:774:ARG:HH21	1.73	0.53
1:S:262:ASP:OD1	1:S:263:VAL:N	2.40	0.53
1:S:315:ARG:NH1	1:S:316:LEU:O	2.41	0.53
1:S:474:ARG:CZ	1:S:492:GLU:HG2	2.39	0.53
1:S:501:SER:OG	1:S:566:ASP:OD2	2.27	0.53
1:T:474:ARG:CZ	1:T:492:GLU:HG2	2.39	0.53
1:V:746:LEU:HD12	1:V:747:LYS:N	2.23	0.53
1:Z:203:ALA:HB2	1:a:192:THR:HB	1.91	0.53
1:a:13:TYR:HH	1:b:85:HIS:CE1	2.19	0.53
1:c:783:LYS:HG2	1:d:777:LEU:HD13	1.89	0.53
1:d:470:VAL:HG12	1:d:495:PHE:HA	1.91	0.53
1:g:499:SER:HA	1:g:512:ARG:HG3	1.91	0.53
1:g:794:LYS:HZ3	1:h:789:ASN:N	2.06	0.53
1:i:501:SER:OG	1:i:566:ASP:OD2	2.26	0.53
1:j:501:SER:OG	1:j:566:ASP:OD2	2.26	0.53
1:k:499:SER:HA	1:k:512:ARG:HG3	1.91	0.53
1:k:691:GLN:HE22	1:l:682:GLN:HG2	1.72	0.53
1:k:794:LYS:HZ3	1:l:789:ASN:N	2.07	0.53
1:l:185:ARG:HH21	1:l:207:ALA:HB2	1.74	0.53
1:l:474:ARG:CZ	1:l:492:GLU:HG2	2.39	0.53
1:m:315:ARG:NH1	1:m:316:LEU:O	2.41	0.53
1:m:746:LEU:HD12	1:m:747:LYS:N	2.23	0.53
1:A:533:ASP:HB3	1:A:588:PHE:HD2	1.72	0.53
1:C:303:LYS:HE2	1:C:323:VAL:HG21	1.89	0.53
1:D:499:SER:HA	1:D:512:ARG:HG3	1.91	0.53
1:D:699:ALA:HA	1:E:690:ARG:HH11	1.73	0.53
1:G:779:LEU:HD22	1:H:774:ARG:HH21	1.73	0.53
1:I:303:LYS:HE2	1:I:323:VAL:HG21	1.89	0.53
1:J:185:ARG:HH21	1:J:207:ALA:HB2	1.73	0.53
1:J:691:GLN:HE22	1:K:682:GLN:HG2	1.72	0.53
1:M:470:VAL:HG12	1:M:495:PHE:HA	1.91	0.53
1:M:499:SER:HA	1:M:512:ARG:HG3	1.91	0.53
1:N:185:ARG:HH21	1:N:207:ALA:HB2	1.74	0.53
1:O:185:ARG:HH21	1:O:207:ALA:HB2	1.74	0.53
1:O:303:LYS:HE2	1:O:323:VAL:HG21	1.90	0.53
1:O:691:GLN:HE22	1:P:682:GLN:HG2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:699:ALA:HA	1:P:690:ARG:HH11	1.73	0.53
1:P:470:VAL:HG12	1:P:495:PHE:HA	1.91	0.53
1:P:737:GLY:O	1:P:741:VAL:HG23	2.07	0.53
1:Q:474:ARG:CZ	1:Q:492:GLU:HG2	2.39	0.53
1:Q:564:VAL:HB	1:Q:631:ASN:HD21	1.74	0.53
1:Q:794:LYS:HZ3	1:R:789:ASN:N	2.06	0.53
1:R:315:ARG:NH1	1:R:316:LEU:O	2.41	0.53
1:S:699:ALA:HA	1:T:690:ARG:HH11	1.73	0.53
1:T:470:VAL:HG12	1:T:495:PHE:HA	1.91	0.53
1:U:28:VAL:HG21	1:U:98:PRO:HB2	1.91	0.53
1:U:303:LYS:HE2	1:U:323:VAL:HG21	1.89	0.53
1:U:474:ARG:CZ	1:U:492:GLU:HG2	2.39	0.53
1:V:303:LYS:HE2	1:V:323:VAL:HG21	1.89	0.53
1:V:499:SER:HA	1:V:512:ARG:HG3	1.91	0.53
1:W:499:SER:HA	1:W:512:ARG:HG3	1.91	0.53
1:X:474:ARG:CZ	1:X:492:GLU:HG2	2.39	0.53
1:Y:470:VAL:HG12	1:Y:495:PHE:HA	1.91	0.53
1:c:794:LYS:HZ3	1:d:789:ASN:N	2.07	0.53
1:d:185:ARG:HH21	1:d:207:ALA:HB2	1.74	0.53
1:e:794:LYS:HZ3	1:f:789:ASN:N	2.07	0.53
1:h:28:VAL:HG21	1:h:98:PRO:HB2	1.91	0.53
1:h:262:ASP:OD1	1:h:263:VAL:N	2.39	0.53
1:h:315:ARG:NH1	1:h:316:LEU:O	2.41	0.53
1:i:185:ARG:HH21	1:i:207:ALA:HB2	1.74	0.53
1:i:470:VAL:HG12	1:i:495:PHE:HA	1.91	0.53
1:i:794:LYS:HZ3	1:j:789:ASN:N	2.05	0.53
1:j:474:ARG:CZ	1:j:492:GLU:HG2	2.39	0.53
1:j:779:LEU:HD22	1:k:774:ARG:HH21	1.73	0.53
1:k:185:ARG:HH21	1:k:207:ALA:HB2	1.73	0.53
1:k:779:LEU:HD22	1:l:774:ARG:HH21	1.72	0.53
1:l:203:ALA:HB2	1:m:192:THR:HB	1.91	0.53
1:A:192:THR:HB	1:m:203:ALA:HB2	1.91	0.53
1:A:690:ARG:HH11	1:m:699:ALA:HA	1.73	0.53
1:A:699:ALA:HA	1:B:690:ARG:HH11	1.73	0.53
1:B:474:ARG:CZ	1:B:492:GLU:HG2	2.39	0.53
1:C:470:VAL:HG12	1:C:495:PHE:HA	1.91	0.53
1:C:737:GLY:O	1:C:741:VAL:HG23	2.07	0.53
1:D:303:LYS:HE2	1:D:323:VAL:HG21	1.89	0.53
1:D:470:VAL:HG12	1:D:495:PHE:HA	1.91	0.53
1:E:13:TYR:HH	1:F:85:HIS:CE1	2.19	0.53
1:F:499:SER:HA	1:F:512:ARG:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:746:LEU:HD12	1:F:747:LYS:N	2.23	0.53
1:H:28:VAL:HG21	1:H:98:PRO:HB2	1.91	0.53
1:H:501:SER:OG	1:H:566:ASP:OD2	2.27	0.53
1:K:303:LYS:HE2	1:K:323:VAL:HG21	1.89	0.53
1:L:699:ALA:HA	1:M:690:ARG:HH11	1.73	0.53
1:M:203:ALA:HB2	1:N:192:THR:HB	1.91	0.53
1:M:474:ARG:CZ	1:M:492:GLU:HG2	2.39	0.53
1:O:779:LEU:HD22	1:P:774:ARG:HH21	1.73	0.53
1:R:474:ARG:CZ	1:R:492:GLU:HG2	2.39	0.53
1:R:501:SER:OG	1:R:566:ASP:OD2	2.27	0.53
1:T:203:ALA:HB2	1:U:192:THR:HB	1.91	0.53
1:U:564:VAL:HB	1:U:631:ASN:HD21	1.74	0.53
1:U:699:ALA:HA	1:V:690:ARG:HH11	1.73	0.53
1:Z:564:VAL:HB	1:Z:631:ASN:HD21	1.74	0.53
1:Z:781:VAL:O	1:Z:785:GLN:NE2	2.42	0.53
1:a:124:LYS:HG2	1:a:160:VAL:CG2	2.39	0.53
1:a:185:ARG:HH21	1:a:207:ALA:HB2	1.74	0.53
1:b:499:SER:HA	1:b:512:ARG:HG3	1.91	0.53
1:b:533:ASP:HB3	1:b:588:PHE:HD2	1.72	0.53
1:f:185:ARG:HH21	1:f:207:ALA:HB2	1.74	0.53
1:g:315:ARG:NH1	1:g:316:LEU:O	2.41	0.53
1:g:783:LYS:HG2	1:h:777:LEU:HD13	1.89	0.53
1:i:699:ALA:HA	1:j:690:ARG:HH11	1.73	0.53
1:l:315:ARG:NH1	1:l:316:LEU:O	2.41	0.53
1:l:691:GLN:HE22	1:m:682:GLN:HG2	1.72	0.53
1:l:794:LYS:HZ3	1:m:789:ASN:N	2.05	0.53
1:m:470:VAL:HG12	1:m:495:PHE:HA	1.91	0.53
1:B:501:SER:OG	1:B:566:ASP:OD2	2.27	0.53
1:B:564:VAL:HB	1:B:631:ASN:HD21	1.74	0.53
1:C:533:ASP:HB3	1:C:588:PHE:CD2	2.44	0.53
1:C:699:ALA:HA	1:D:690:ARG:HH11	1.73	0.53
1:D:124:LYS:HG2	1:D:160:VAL:CG2	2.39	0.53
1:D:746:LEU:HD12	1:D:747:LYS:N	2.23	0.53
1:F:474:ARG:CZ	1:F:492:GLU:HG2	2.39	0.53
1:I:203:ALA:HB2	1:J:192:THR:HB	1.91	0.53
1:J:501:SER:OG	1:J:566:ASP:OD2	2.26	0.53
1:J:779:LEU:HD22	1:K:774:ARG:HH21	1.73	0.53
1:L:533:ASP:HB3	1:L:588:PHE:CD2	2.44	0.53
1:L:781:VAL:O	1:L:785:GLN:NE2	2.42	0.53
1:N:499:SER:HA	1:N:512:ARG:HG3	1.91	0.53
1:O:783:LYS:HG2	1:P:777:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:28:VAL:HG21	1:P:98:PRO:HB2	1.91	0.53
1:P:185:ARG:HH21	1:P:207:ALA:HB2	1.74	0.53
1:P:533:ASP:HB3	1:P:588:PHE:HD2	1.72	0.53
1:Q:746:LEU:HD12	1:Q:747:LYS:N	2.23	0.53
1:R:28:VAL:HG21	1:R:98:PRO:HB2	1.91	0.53
1:R:203:ALA:HB2	1:S:192:THR:HB	1.91	0.53
1:R:691:GLN:HE22	1:S:682:GLN:HG2	1.72	0.53
1:R:783:LYS:HG2	1:S:777:LEU:HD13	1.89	0.53
1:S:470:VAL:HG12	1:S:495:PHE:HA	1.91	0.53
1:T:781:VAL:O	1:T:785:GLN:NE2	2.42	0.53
1:U:203:ALA:HB2	1:V:192:THR:HB	1.91	0.53
1:U:746:LEU:HD12	1:U:747:LYS:N	2.23	0.53
1:V:124:LYS:HG2	1:V:160:VAL:CG2	2.39	0.53
1:Z:470:VAL:HG12	1:Z:495:PHE:HA	1.91	0.53
1:Z:691:GLN:HE22	1:a:682:GLN:HG2	1.72	0.53
1:a:28:VAL:HG21	1:a:98:PRO:HB2	1.91	0.53
1:b:303:LYS:HE2	1:b:323:VAL:HG21	1.90	0.53
1:b:501:SER:OG	1:b:566:ASP:OD2	2.26	0.53
1:b:746:LEU:HD12	1:b:747:LYS:N	2.23	0.53
1:b:779:LEU:HD22	1:c:774:ARG:HH21	1.73	0.53
1:d:28:VAL:HG21	1:d:98:PRO:HB2	1.91	0.53
1:f:315:ARG:NH1	1:f:316:LEU:O	2.41	0.53
1:f:564:VAL:HB	1:f:631:ASN:HD21	1.74	0.53
1:g:203:ALA:HB2	1:h:192:THR:HB	1.91	0.53
1:g:474:ARG:CZ	1:g:492:GLU:HG2	2.39	0.53
1:h:470:VAL:HG12	1:h:495:PHE:HA	1.91	0.53
1:i:13:TYR:HH	1:j:85:HIS:CE1	2.19	0.53
1:i:474:ARG:CZ	1:i:492:GLU:HG2	2.39	0.53
1:i:499:SER:HA	1:i:512:ARG:HG3	1.91	0.53
1:i:781:VAL:O	1:i:785:GLN:NE2	2.42	0.53
1:j:781:VAL:O	1:j:785:GLN:NE2	2.42	0.53
1:k:203:ALA:HB2	1:l:192:THR:HB	1.91	0.53
1:l:124:LYS:HG2	1:l:160:VAL:CG2	2.39	0.53
1:m:28:VAL:HG21	1:m:98:PRO:HB2	1.91	0.53
1:B:706:LEU:HD11	1:C:696:GLN:HB2	1.91	0.53
1:D:783:LYS:HG2	1:E:777:LEU:HD13	1.89	0.53
1:E:203:ALA:HB2	1:F:192:THR:HB	1.91	0.53
1:E:746:LEU:HD12	1:E:747:LYS:N	2.23	0.53
1:F:779:LEU:HD22	1:G:774:ARG:HH21	1.73	0.53
1:J:794:LYS:HZ3	1:K:789:ASN:N	2.06	0.53
1:K:781:VAL:O	1:K:785:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:124:LYS:HG2	1:L:160:VAL:CG2	2.39	0.53
1:L:262:ASP:OD1	1:L:263:VAL:N	2.40	0.53
1:N:315:ARG:NH1	1:N:316:LEU:O	2.41	0.53
1:O:474:ARG:CZ	1:O:492:GLU:HG2	2.39	0.53
1:O:781:VAL:O	1:O:785:GLN:NE2	2.42	0.53
1:Q:470:VAL:HG12	1:Q:495:PHE:HA	1.91	0.53
1:Q:533:ASP:HB3	1:Q:588:PHE:CD2	2.44	0.53
1:S:28:VAL:HG21	1:S:98:PRO:HB2	1.91	0.53
1:T:746:LEU:HD12	1:T:747:LYS:N	2.23	0.53
1:T:779:LEU:HD22	1:U:774:ARG:HH21	1.73	0.53
1:Y:474:ARG:CZ	1:Y:492:GLU:HG2	2.39	0.53
1:Z:28:VAL:HG21	1:Z:98:PRO:HB2	1.91	0.53
1:Z:124:LYS:HG2	1:Z:160:VAL:CG2	2.39	0.53
1:b:185:ARG:HH21	1:b:207:ALA:HB2	1.73	0.53
1:c:124:LYS:HG2	1:c:160:VAL:CG2	2.39	0.53
1:c:470:VAL:HG12	1:c:495:PHE:HA	1.91	0.53
1:c:499:SER:HA	1:c:512:ARG:HG3	1.91	0.53
1:c:564:VAL:HB	1:c:631:ASN:HD21	1.74	0.53
1:d:124:LYS:HG2	1:d:160:VAL:CG2	2.39	0.53
1:d:501:SER:OG	1:d:566:ASP:OD2	2.26	0.53
1:e:392:ASP:O	1:e:396:GLY:N	2.40	0.53
1:e:470:VAL:HG12	1:e:495:PHE:HA	1.91	0.53
1:e:746:LEU:HD12	1:e:747:LYS:N	2.23	0.53
1:f:499:SER:HA	1:f:512:ARG:HG3	1.91	0.53
1:g:28:VAL:HG21	1:g:98:PRO:HB2	1.91	0.53
1:h:654:LEU:HD12	1:i:534:HIS:CE1	2.42	0.53
1:j:533:ASP:HB3	1:j:588:PHE:CD2	2.44	0.53
1:k:303:LYS:HE2	1:k:323:VAL:HG21	1.89	0.53
1:l:470:VAL:HG12	1:l:495:PHE:HA	1.91	0.53
1:m:124:LYS:HG2	1:m:160:VAL:CG2	2.39	0.53
1:m:185:ARG:HH21	1:m:207:ALA:HB2	1.74	0.53
1:m:698:GLU:HA	1:m:701:LYS:HE2	1.91	0.53
1:A:13:TYR:HH	1:B:85:HIS:CE1	2.19	0.53
1:A:533:ASP:HB3	1:A:588:PHE:CD2	2.44	0.53
1:A:564:VAL:HB	1:A:631:ASN:HD21	1.74	0.53
1:B:185:ARG:HH21	1:B:207:ALA:HB2	1.74	0.53
1:D:474:ARG:CZ	1:D:492:GLU:HG2	2.39	0.53
1:F:124:LYS:HG2	1:F:160:VAL:CG2	2.39	0.53
1:F:781:VAL:O	1:F:785:GLN:NE2	2.42	0.53
1:G:303:LYS:HE2	1:G:323:VAL:HG21	1.89	0.53
1:G:699:ALA:HA	1:H:690:ARG:HH11	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:124:LYS:HG2	1:H:160:VAL:CG2	2.39	0.53
1:H:474:ARG:CZ	1:H:492:GLU:HG2	2.39	0.53
1:H:783:LYS:HG2	1:I:777:LEU:HD13	1.89	0.53
1:I:564:VAL:HB	1:I:631:ASN:HD21	1.74	0.53
1:J:698:GLU:HA	1:J:701:LYS:HE2	1.91	0.53
1:J:781:VAL:O	1:J:785:GLN:NE2	2.42	0.53
1:K:185:ARG:HH21	1:K:207:ALA:HB2	1.74	0.53
1:L:28:VAL:HG21	1:L:98:PRO:HB2	1.91	0.53
1:L:499:SER:HA	1:L:512:ARG:HG3	1.91	0.53
1:M:794:LYS:HZ3	1:N:789:ASN:N	2.06	0.53
1:N:746:LEU:HD12	1:N:747:LYS:N	2.23	0.53
1:O:315:ARG:NH1	1:O:316:LEU:O	2.41	0.53
1:O:499:SER:HA	1:O:512:ARG:HG3	1.91	0.53
1:O:769:GLU:OE1	1:P:766:ARG:NH2	2.42	0.53
1:P:262:ASP:OD1	1:P:263:VAL:N	2.39	0.53
1:P:699:ALA:HA	1:Q:690:ARG:HH11	1.73	0.53
1:Q:203:ALA:HB2	1:R:192:THR:HB	1.91	0.53
1:R:698:GLU:HA	1:R:701:LYS:HE2	1.91	0.53
1:R:706:LEU:HD11	1:S:696:GLN:HB2	1.91	0.53
1:S:564:VAL:HB	1:S:631:ASN:HD21	1.74	0.53
1:S:781:VAL:O	1:S:785:GLN:NE2	2.42	0.53
1:U:499:SER:HA	1:U:512:ARG:HG3	1.91	0.53
1:U:706:LEU:HD11	1:V:696:GLN:HB2	1.91	0.53
1:V:474:ARG:CZ	1:V:492:GLU:HG2	2.39	0.53
1:V:564:VAL:HB	1:V:631:ASN:HD21	1.74	0.53
1:V:783:LYS:HG2	1:W:777:LEU:HD13	1.89	0.53
1:W:746:LEU:HD12	1:W:747:LYS:N	2.23	0.53
1:X:499:SER:HA	1:X:512:ARG:HG3	1.91	0.53
1:X:533:ASP:HB3	1:X:588:PHE:CD2	2.44	0.53
1:Y:185:ARG:HH21	1:Y:207:ALA:HB2	1.74	0.53
1:Y:501:SER:OG	1:Y:566:ASP:OD2	2.26	0.53
1:Y:706:LEU:HD11	1:Z:696:GLN:HB2	1.91	0.53
1:a:781:VAL:O	1:a:785:GLN:NE2	2.42	0.53
1:c:185:ARG:HH21	1:c:207:ALA:HB2	1.73	0.53
1:c:203:ALA:HB2	1:d:192:THR:HB	1.91	0.53
1:d:203:ALA:HB2	1:e:192:THR:HB	1.91	0.53
1:d:654:LEU:O	1:d:657:SER:OG	2.20	0.53
1:d:699:ALA:HA	1:e:690:ARG:HH11	1.73	0.53
1:d:706:LEU:HD11	1:e:696:GLN:HB2	1.91	0.53
1:e:474:ARG:CZ	1:e:492:GLU:HG2	2.39	0.53
1:e:533:ASP:HB3	1:e:588:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:124:LYS:HG2	1:h:160:VAL:CG2	2.39	0.53
1:h:501:SER:OG	1:h:566:ASP:OD2	2.27	0.53
1:h:699:ALA:HA	1:i:690:ARG:HH11	1.73	0.53
1:i:124:LYS:HG2	1:i:160:VAL:CG2	2.39	0.53
1:j:315:ARG:NH1	1:j:316:LEU:O	2.41	0.53
1:l:781:VAL:O	1:l:785:GLN:NE2	2.42	0.53
1:A:766:ARG:NH2	1:m:769:GLU:OE1	2.42	0.53
1:B:203:ALA:HB2	1:C:192:THR:HB	1.91	0.53
1:B:769:GLU:OE1	1:C:766:ARG:NH2	2.42	0.53
1:C:185:ARG:HH21	1:C:207:ALA:HB2	1.73	0.53
1:C:499:SER:HA	1:C:512:ARG:HG3	1.91	0.53
1:C:665:THR:OG1	1:D:589:ASP:OD2	2.19	0.53
1:E:28:VAL:HG21	1:E:98:PRO:HB2	1.91	0.53
1:E:262:ASP:OD1	1:E:263:VAL:N	2.40	0.53
1:E:501:SER:OG	1:E:566:ASP:OD2	2.27	0.53
1:E:533:ASP:HB3	1:E:588:PHE:CD2	2.44	0.53
1:F:533:ASP:HB3	1:F:588:PHE:CD2	2.44	0.53
1:G:124:LYS:HG2	1:G:160:VAL:CG2	2.39	0.53
1:H:185:ARG:HH21	1:H:207:ALA:HB2	1.73	0.53
1:H:770:LEU:HB2	1:H:774:ARG:NH1	2.22	0.53
1:I:474:ARG:CZ	1:I:492:GLU:HG2	2.39	0.53
1:I:698:GLU:HA	1:I:701:LYS:HE2	1.91	0.53
1:I:769:GLU:OE1	1:J:766:ARG:NH2	2.42	0.53
1:K:315:ARG:NH1	1:K:316:LEU:O	2.41	0.53
1:K:474:ARG:CZ	1:K:492:GLU:HG2	2.39	0.53
1:K:501:SER:OG	1:K:566:ASP:OD2	2.27	0.53
1:K:699:ALA:HA	1:L:690:ARG:HH11	1.73	0.53
1:K:783:LYS:HG2	1:L:777:LEU:HD13	1.89	0.53
1:N:706:LEU:HD11	1:O:696:GLN:HB2	1.91	0.53
1:P:533:ASP:HB3	1:P:588:PHE:CD2	2.44	0.53
1:Q:781:VAL:O	1:Q:785:GLN:NE2	2.42	0.53
1:T:501:SER:OG	1:T:566:ASP:OD2	2.27	0.53
1:T:769:GLU:OE1	1:U:766:ARG:NH2	2.42	0.53
1:U:124:LYS:HG2	1:U:160:VAL:CG2	2.39	0.53
1:U:315:ARG:NH1	1:U:316:LEU:O	2.41	0.53
1:U:688:LEU:HG	1:U:691:GLN:HE21	1.74	0.53
1:V:698:GLU:HA	1:V:701:LYS:HE2	1.91	0.53
1:W:28:VAL:HG21	1:W:98:PRO:HB2	1.91	0.53
1:W:474:ARG:CZ	1:W:492:GLU:HG2	2.39	0.53
1:Y:699:ALA:HA	1:Z:690:ARG:HH11	1.73	0.53
1:Z:474:ARG:CZ	1:Z:492:GLU:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:746:LEU:HD12	1:Z:747:LYS:N	2.23	0.53
1:Z:769:GLU:OE1	1:a:766:ARG:NH2	2.42	0.53
1:b:533:ASP:HB3	1:b:588:PHE:CD2	2.44	0.53
1:b:769:GLU:OE1	1:c:766:ARG:NH2	2.42	0.53
1:c:474:ARG:CZ	1:c:492:GLU:HG2	2.39	0.53
1:d:781:VAL:O	1:d:785:GLN:NE2	2.42	0.53
1:e:781:VAL:O	1:e:785:GLN:NE2	2.42	0.53
1:f:533:ASP:HB3	1:f:588:PHE:CD2	2.44	0.53
1:f:769:GLU:OE1	1:g:766:ARG:NH2	2.42	0.53
1:g:533:ASP:HB3	1:g:588:PHE:HD2	1.72	0.53
1:h:746:LEU:HD12	1:h:747:LYS:N	2.23	0.53
1:i:303:LYS:HE2	1:i:323:VAL:HG21	1.90	0.53
1:j:769:GLU:OE1	1:k:766:ARG:NH2	2.42	0.53
1:k:501:SER:OG	1:k:566:ASP:OD2	2.26	0.53
1:k:564:VAL:HB	1:k:631:ASN:HD21	1.74	0.53
1:l:746:LEU:HD12	1:l:747:LYS:N	2.23	0.53
1:l:769:GLU:OE1	1:m:766:ARG:NH2	2.42	0.53
1:m:533:ASP:HB3	1:m:588:PHE:CD2	2.44	0.53
1:A:203:ALA:HB2	1:B:192:THR:HB	1.91	0.53
1:A:654:LEU:O	1:A:657:SER:OG	2.20	0.53
1:B:699:ALA:HA	1:C:690:ARG:HH11	1.73	0.53
1:B:779:LEU:HD22	1:C:774:ARG:HH21	1.72	0.53
1:D:28:VAL:HG21	1:D:98:PRO:HB2	1.91	0.53
1:E:769:GLU:OE1	1:F:766:ARG:NH2	2.42	0.53
1:F:706:LEU:HD11	1:G:696:GLN:HB2	1.91	0.53
1:F:794:LYS:HZ3	1:G:789:ASN:N	2.06	0.53
1:G:688:LEU:HG	1:G:691:GLN:HE21	1.74	0.53
1:G:698:GLU:HA	1:G:701:LYS:HE2	1.91	0.53
1:G:706:LEU:HD11	1:H:696:GLN:HB2	1.91	0.53
1:H:533:ASP:HB3	1:H:588:PHE:CD2	2.44	0.53
1:H:781:VAL:O	1:H:785:GLN:NE2	2.42	0.53
1:J:769:GLU:OE1	1:K:766:ARG:NH2	2.42	0.53
1:K:691:GLN:HE22	1:L:682:GLN:HG2	1.72	0.53
1:K:698:GLU:HA	1:K:701:LYS:HE2	1.91	0.53
1:M:124:LYS:HG2	1:M:160:VAL:CG2	2.39	0.53
1:M:185:ARG:HH21	1:M:207:ALA:HB2	1.74	0.53
1:O:470:VAL:HG12	1:O:495:PHE:HA	1.91	0.53
1:O:698:GLU:HA	1:O:701:LYS:HE2	1.91	0.53
1:P:769:GLU:OE1	1:Q:766:ARG:NH2	2.42	0.53
1:Q:185:ARG:HH21	1:Q:207:ALA:HB2	1.74	0.53
1:R:303:LYS:HE2	1:R:323:VAL:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:688:LEU:HG	1:R:691:GLN:HE21	1.74	0.53
1:S:203:ALA:HB2	1:T:192:THR:HB	1.91	0.53
1:T:564:VAL:HB	1:T:631:ASN:HD21	1.74	0.53
1:U:794:LYS:HZ3	1:V:789:ASN:N	2.07	0.53
1:W:470:VAL:HG12	1:W:495:PHE:HA	1.91	0.53
1:W:769:GLU:OE1	1:X:766:ARG:NH2	2.42	0.53
1:Y:769:GLU:OE1	1:Z:766:ARG:NH2	2.42	0.53
1:Z:665:THR:OG1	1:a:589:ASP:OD2	2.19	0.53
1:Z:783:LYS:HG2	1:a:777:LEU:HD13	1.89	0.53
1:a:474:ARG:CZ	1:a:492:GLU:HG2	2.39	0.53
1:a:499:SER:HA	1:a:512:ARG:HG3	1.91	0.53
1:a:783:LYS:HG2	1:b:777:LEU:HD13	1.89	0.53
1:c:781:VAL:O	1:c:785:GLN:NE2	2.42	0.53
1:f:203:ALA:HB2	1:g:192:THR:HB	1.91	0.53
1:g:185:ARG:HH21	1:g:207:ALA:HB2	1.73	0.53
1:h:779:LEU:HD22	1:i:774:ARG:HH21	1.73	0.53
1:h:781:VAL:O	1:h:785:GLN:NE2	2.42	0.53
1:i:688:LEU:HG	1:i:691:GLN:HE21	1.74	0.53
1:i:698:GLU:HA	1:i:701:LYS:HE2	1.91	0.53
1:j:564:VAL:HB	1:j:631:ASN:HD21	1.74	0.53
1:k:28:VAL:HG21	1:k:98:PRO:HB2	1.91	0.53
1:m:499:SER:HA	1:m:512:ARG:HG3	1.91	0.53
1:A:688:LEU:HG	1:A:691:GLN:HE21	1.74	0.52
1:A:781:VAL:O	1:A:785:GLN:NE2	2.42	0.52
1:C:781:VAL:O	1:C:785:GLN:NE2	2.42	0.52
1:D:688:LEU:HG	1:D:691:GLN:HE21	1.74	0.52
1:E:474:ARG:CZ	1:E:492:GLU:HG2	2.39	0.52
1:G:746:LEU:HD12	1:G:747:LYS:N	2.23	0.52
1:H:203:ALA:HB2	1:I:192:THR:HB	1.91	0.52
1:H:303:LYS:HE2	1:H:323:VAL:HG21	1.89	0.52
1:H:698:GLU:HA	1:H:701:LYS:HE2	1.91	0.52
1:J:474:ARG:CZ	1:J:492:GLU:HG2	2.39	0.52
1:K:28:VAL:HG21	1:K:98:PRO:HB2	1.91	0.52
1:M:781:VAL:O	1:M:785:GLN:NE2	2.42	0.52
1:N:769:GLU:OE1	1:O:766:ARG:NH2	2.42	0.52
1:N:781:VAL:O	1:N:785:GLN:NE2	2.42	0.52
1:Q:124:LYS:HG2	1:Q:160:VAL:CG2	2.39	0.52
1:Q:501:SER:OG	1:Q:566:ASP:OD2	2.27	0.52
1:R:564:VAL:HB	1:R:631:ASN:HD21	1.74	0.52
1:S:533:ASP:HB3	1:S:588:PHE:CD2	2.44	0.52
1:T:533:ASP:HB3	1:T:588:PHE:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:794:LYS:HZ3	1:U:789:ASN:N	2.07	0.52
1:V:470:VAL:HG12	1:V:495:PHE:HA	1.91	0.52
1:W:781:VAL:O	1:W:785:GLN:NE2	2.42	0.52
1:X:779:LEU:HD22	1:Y:774:ARG:HH21	1.73	0.52
1:Y:533:ASP:HB3	1:Y:588:PHE:CD2	2.44	0.52
1:Y:746:LEU:HD12	1:Y:747:LYS:N	2.23	0.52
1:Z:185:ARG:HH21	1:Z:207:ALA:HB2	1.74	0.52
1:Z:779:LEU:HD22	1:a:774:ARG:HH21	1.73	0.52
1:a:262:ASP:OD1	1:a:263:VAL:N	2.40	0.52
1:a:746:LEU:HD12	1:a:747:LYS:N	2.23	0.52
1:b:698:GLU:HA	1:b:701:LYS:HE2	1.91	0.52
1:c:698:GLU:HA	1:c:701:LYS:HE2	1.91	0.52
1:e:185:ARG:HH21	1:e:207:ALA:HB2	1.73	0.52
1:e:769:GLU:OE1	1:f:766:ARG:NH2	2.42	0.52
1:f:780:GLU:HG3	1:f:783:LYS:HZ3	1.74	0.52
1:f:781:VAL:O	1:f:785:GLN:NE2	2.42	0.52
1:g:769:GLU:OE1	1:h:766:ARG:NH2	2.42	0.52
1:i:315:ARG:NH1	1:i:316:LEU:O	2.41	0.52
1:i:533:ASP:HB3	1:i:588:PHE:CD2	2.44	0.52
1:l:499:SER:HA	1:l:512:ARG:HG3	1.91	0.52
1:l:688:LEU:HG	1:l:691:GLN:HE21	1.74	0.52
1:l:698:GLU:HA	1:l:701:LYS:HE2	1.91	0.52
1:B:781:VAL:O	1:B:785:GLN:NE2	2.42	0.52
1:D:769:GLU:OE1	1:E:766:ARG:NH2	2.42	0.52
1:F:688:LEU:HG	1:F:691:GLN:HE21	1.74	0.52
1:G:499:SER:HA	1:G:512:ARG:HG3	1.91	0.52
1:G:533:ASP:HB3	1:G:588:PHE:CD2	2.44	0.52
1:I:688:LEU:HG	1:I:691:GLN:HE21	1.74	0.52
1:K:533:ASP:HB3	1:K:588:PHE:HD2	1.72	0.52
1:K:533:ASP:HB3	1:K:588:PHE:CD2	2.44	0.52
1:K:688:LEU:HG	1:K:691:GLN:HE21	1.74	0.52
1:L:787:LEU:O	1:L:790:VAL:HG12	2.10	0.52
1:M:706:LEU:HD11	1:N:696:GLN:HB2	1.91	0.52
1:N:303:LYS:HE2	1:N:323:VAL:HG21	1.89	0.52
1:N:665:THR:OG1	1:O:589:ASP:OD2	2.19	0.52
1:P:124:LYS:HG2	1:P:160:VAL:CG2	2.39	0.52
1:P:564:VAL:HB	1:P:631:ASN:HD21	1.74	0.52
1:R:185:ARG:HH21	1:R:207:ALA:HB2	1.73	0.52
1:T:28:VAL:HG21	1:T:98:PRO:HB2	1.91	0.52
1:T:185:ARG:HH21	1:T:207:ALA:HB2	1.73	0.52
1:V:769:GLU:OE1	1:W:766:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:688:LEU:HG	1:W:691:GLN:HE21	1.74	0.52
1:X:746:LEU:HD12	1:X:747:LYS:N	2.23	0.52
1:Y:124:LYS:HG2	1:Y:160:VAL:CG2	2.39	0.52
1:Z:688:LEU:HG	1:Z:691:GLN:HE21	1.74	0.52
1:a:698:GLU:HA	1:a:701:LYS:HE2	1.91	0.52
1:d:474:ARG:CZ	1:d:492:GLU:HG2	2.39	0.52
1:e:28:VAL:HG21	1:e:98:PRO:HB2	1.91	0.52
1:e:699:ALA:HA	1:f:690:ARG:HH11	1.73	0.52
1:f:124:LYS:HG2	1:f:160:VAL:CG2	2.39	0.52
1:f:779:LEU:HD22	1:g:774:ARG:HH21	1.73	0.52
1:g:533:ASP:HB3	1:g:588:PHE:CD2	2.44	0.52
1:h:564:VAL:HB	1:h:631:ASN:HD21	1.74	0.52
1:h:688:LEU:HG	1:h:691:GLN:HE21	1.74	0.52
1:i:28:VAL:HG21	1:i:98:PRO:HB2	1.91	0.52
1:j:470:VAL:HG12	1:j:495:PHE:HA	1.91	0.52
1:k:470:VAL:HG12	1:k:495:PHE:HA	1.91	0.52
1:k:688:LEU:HG	1:k:691:GLN:HE21	1.74	0.52
1:k:746:LEU:HD12	1:k:747:LYS:N	2.23	0.52
1:l:564:VAL:HB	1:l:631:ASN:HD21	1.74	0.52
1:m:564:VAL:HB	1:m:631:ASN:HD21	1.74	0.52
1:C:124:LYS:HG2	1:C:160:VAL:CG2	2.39	0.52
1:C:564:VAL:HB	1:C:631:ASN:HD21	1.74	0.52
1:C:688:LEU:HG	1:C:691:GLN:HE21	1.74	0.52
1:D:203:ALA:HB2	1:E:192:THR:HB	1.91	0.52
1:D:533:ASP:HB3	1:D:588:PHE:CD2	2.44	0.52
1:E:781:VAL:O	1:E:785:GLN:NE2	2.42	0.52
1:G:781:VAL:O	1:G:785:GLN:NE2	2.42	0.52
1:H:769:GLU:OE1	1:I:766:ARG:NH2	2.42	0.52
1:J:564:VAL:HB	1:J:631:ASN:HD21	1.74	0.52
1:K:124:LYS:HG2	1:K:160:VAL:CG2	2.39	0.52
1:K:706:LEU:HD11	1:L:696:GLN:HB2	1.91	0.52
1:M:533:ASP:HB3	1:M:588:PHE:CD2	2.44	0.52
1:M:688:LEU:HG	1:M:691:GLN:HE21	1.74	0.52
1:N:474:ARG:CZ	1:N:492:GLU:HG2	2.39	0.52
1:O:533:ASP:HB3	1:O:588:PHE:CD2	2.44	0.52
1:Q:392:ASP:O	1:Q:396:GLY:N	2.40	0.52
1:R:124:LYS:HG2	1:R:160:VAL:CG2	2.39	0.52
1:R:533:ASP:HB3	1:R:588:PHE:CD2	2.44	0.52
1:S:698:GLU:HA	1:S:701:LYS:HE2	1.91	0.52
1:U:185:ARG:HH21	1:U:207:ALA:HB2	1.73	0.52
1:U:470:VAL:HG12	1:U:495:PHE:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:783:LYS:HG2	1:V:777:LEU:HD13	1.89	0.52
1:V:533:ASP:HB3	1:V:588:PHE:CD2	2.44	0.52
1:W:579:VAL:O	1:W:583:VAL:HG13	2.10	0.52
1:X:688:LEU:HG	1:X:691:GLN:HE21	1.74	0.52
1:Y:781:VAL:O	1:Y:785:GLN:NE2	2.42	0.52
1:Z:501:SER:OG	1:Z:566:ASP:OD2	2.26	0.52
1:a:470:VAL:HG12	1:a:495:PHE:HA	1.91	0.52
1:a:769:GLU:OE1	1:b:766:ARG:NH2	2.42	0.52
1:a:779:LEU:HD22	1:b:774:ARG:HH21	1.73	0.52
1:d:564:VAL:HB	1:d:631:ASN:HD21	1.74	0.52
1:f:474:ARG:CZ	1:f:492:GLU:HG2	2.39	0.52
1:g:564:VAL:HB	1:g:631:ASN:HD21	1.74	0.52
1:g:781:VAL:O	1:g:785:GLN:NE2	2.42	0.52
1:A:499:SER:HA	1:A:512:ARG:HG3	1.91	0.52
1:C:706:LEU:HD11	1:D:696:GLN:HB2	1.91	0.52
1:D:185:ARG:HH21	1:D:207:ALA:HB2	1.73	0.52
1:D:698:GLU:HA	1:D:701:LYS:HE2	1.91	0.52
1:E:770:LEU:HB2	1:E:774:ARG:NH1	2.22	0.52
1:I:699:ALA:HA	1:J:690:ARG:HH11	1.73	0.52
1:I:779:LEU:HD22	1:J:774:ARG:HH21	1.73	0.52
1:I:781:VAL:O	1:I:785:GLN:NE2	2.42	0.52
1:J:124:LYS:HG2	1:J:160:VAL:CG2	2.39	0.52
1:K:579:VAL:O	1:K:583:VAL:HG13	2.10	0.52
1:K:769:GLU:OE1	1:L:766:ARG:NH2	2.42	0.52
1:M:787:LEU:O	1:M:790:VAL:HG12	2.10	0.52
1:P:781:VAL:O	1:P:785:GLN:NE2	2.42	0.52
1:Q:28:VAL:HG21	1:Q:98:PRO:HB2	1.91	0.52
1:R:781:VAL:O	1:R:785:GLN:NE2	2.42	0.52
1:S:769:GLU:OE1	1:T:766:ARG:NH2	2.42	0.52
1:T:688:LEU:HG	1:T:691:GLN:HE21	1.74	0.52
1:V:203:ALA:HB2	1:W:192:THR:HB	1.91	0.52
1:V:501:SER:OG	1:V:566:ASP:OD2	2.26	0.52
1:V:781:VAL:O	1:V:785:GLN:NE2	2.42	0.52
1:W:185:ARG:HH21	1:W:207:ALA:HB2	1.74	0.52
1:W:564:VAL:HB	1:W:631:ASN:HD21	1.74	0.52
1:W:779:LEU:HD22	1:X:774:ARG:HH21	1.72	0.52
1:X:13:TYR:HH	1:Y:85:HIS:CE1	2.19	0.52
1:X:769:GLU:OE1	1:Y:766:ARG:NH2	2.42	0.52
1:X:787:LEU:O	1:X:790:VAL:HG12	2.10	0.52
1:Z:699:ALA:HA	1:a:690:ARG:HH11	1.73	0.52
1:Z:706:LEU:HD11	1:a:696:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:699:ALA:HA	1:b:690:ARG:HH11	1.73	0.52
1:b:28:VAL:HG21	1:b:98:PRO:HB2	1.91	0.52
1:b:474:ARG:CZ	1:b:492:GLU:HG2	2.39	0.52
1:d:533:ASP:HB3	1:d:588:PHE:CD2	2.44	0.52
1:d:779:LEU:HD22	1:e:774:ARG:HH21	1.73	0.52
1:e:698:GLU:HA	1:e:701:LYS:HE2	1.91	0.52
1:h:698:GLU:HA	1:h:701:LYS:HE2	1.91	0.52
1:i:769:GLU:OE1	1:j:766:ARG:NH2	2.42	0.52
1:j:124:LYS:HG2	1:j:160:VAL:CG2	2.39	0.52
1:j:203:ALA:HB2	1:k:192:THR:HB	1.91	0.52
1:k:699:ALA:HA	1:l:690:ARG:HH11	1.73	0.52
1:k:781:VAL:O	1:k:785:GLN:NE2	2.42	0.52
1:m:781:VAL:O	1:m:785:GLN:NE2	2.42	0.52
1:m:787:LEU:O	1:m:790:VAL:HG12	2.10	0.52
1:A:124:LYS:HG2	1:A:160:VAL:CG2	2.39	0.52
1:B:28:VAL:HG21	1:B:98:PRO:HB2	1.91	0.52
1:B:533:ASP:HB3	1:B:588:PHE:CD2	2.44	0.52
1:B:698:GLU:HA	1:B:701:LYS:HE2	1.91	0.52
1:D:579:VAL:O	1:D:583:VAL:HG13	2.10	0.52
1:D:781:VAL:O	1:D:785:GLN:NE2	2.42	0.52
1:E:124:LYS:HG2	1:E:160:VAL:CG2	2.39	0.52
1:E:470:VAL:HG12	1:E:495:PHE:HA	1.91	0.52
1:E:579:VAL:O	1:E:583:VAL:HG13	2.10	0.52
1:F:203:ALA:HB2	1:G:192:THR:HB	1.91	0.52
1:G:474:ARG:CZ	1:G:492:GLU:HG2	2.39	0.52
1:G:713:SER:HA	1:H:704:LYS:HZ2	1.74	0.52
1:J:203:ALA:HB2	1:K:192:THR:HB	1.91	0.52
1:J:706:LEU:HD11	1:K:696:GLN:HB2	1.91	0.52
1:K:203:ALA:HB2	1:L:192:THR:HB	1.91	0.52
1:K:499:SER:HA	1:K:512:ARG:HG3	1.91	0.52
1:K:787:LEU:O	1:K:790:VAL:HG12	2.10	0.52
1:N:533:ASP:HB3	1:N:588:PHE:CD2	2.44	0.52
1:N:794:LYS:HZ3	1:O:789:ASN:N	2.07	0.52
1:O:688:LEU:HG	1:O:691:GLN:HE21	1.74	0.52
1:P:203:ALA:HB2	1:Q:192:THR:HB	1.91	0.52
1:R:787:LEU:O	1:R:790:VAL:HG12	2.10	0.52
1:T:124:LYS:HG2	1:T:160:VAL:CG2	2.39	0.52
1:U:698:GLU:HA	1:U:701:LYS:HE2	1.91	0.52
1:V:185:ARG:HH21	1:V:207:ALA:HB2	1.74	0.52
1:X:470:VAL:HG12	1:X:495:PHE:HA	1.91	0.52
1:Y:392:ASP:O	1:Y:396:GLY:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:499:SER:HA	1:Y:512:ARG:HG3	1.91	0.52
1:Y:787:LEU:O	1:Y:790:VAL:HG12	2.10	0.52
1:Z:533:ASP:HB3	1:Z:588:PHE:CD2	2.44	0.52
1:a:564:VAL:HB	1:a:631:ASN:HD21	1.74	0.52
1:b:124:LYS:HG2	1:b:160:VAL:CG2	2.39	0.52
1:d:698:GLU:HA	1:d:701:LYS:HE2	1.91	0.52
1:f:688:LEU:HG	1:f:691:GLN:HE21	1.74	0.52
1:f:787:LEU:O	1:f:790:VAL:HG12	2.10	0.52
1:g:501:SER:OG	1:g:566:ASP:OD2	2.26	0.52
1:h:579:VAL:O	1:h:583:VAL:HG13	2.10	0.52
1:h:735:ILE:HG21	1:i:727:GLU:HA	1.92	0.52
1:i:579:VAL:O	1:i:583:VAL:HG13	2.10	0.52
1:i:787:LEU:O	1:i:790:VAL:HG12	2.10	0.52
1:j:787:LEU:O	1:j:790:VAL:HG12	2.10	0.52
1:k:13:TYR:HH	1:l:85:HIS:CE1	2.19	0.52
1:k:124:LYS:HG2	1:k:160:VAL:CG2	2.39	0.52
1:A:579:VAL:O	1:A:583:VAL:HG13	2.10	0.52
1:A:696:GLN:HB2	1:m:706:LEU:HD11	1.91	0.52
1:B:124:LYS:HG2	1:B:160:VAL:CG2	2.39	0.52
1:B:579:VAL:O	1:B:583:VAL:HG13	2.10	0.52
1:C:203:ALA:HB2	1:D:192:THR:HB	1.91	0.52
1:C:501:SER:OG	1:C:566:ASP:OD2	2.27	0.52
1:D:751:LEU:HA	1:D:754:GLU:OE1	2.10	0.52
1:E:794:LYS:HZ3	1:F:789:ASN:N	2.07	0.52
1:F:698:GLU:HA	1:F:701:LYS:HE2	1.91	0.52
1:J:13:TYR:HH	1:K:85:HIS:CE1	2.19	0.52
1:J:688:LEU:HG	1:J:691:GLN:HE21	1.74	0.52
1:K:751:LEU:HA	1:K:754:GLU:OE1	2.10	0.52
1:L:185:ARG:HH21	1:L:207:ALA:HB2	1.73	0.52
1:L:564:VAL:HB	1:L:631:ASN:HD21	1.74	0.52
1:M:579:VAL:O	1:M:583:VAL:HG13	2.10	0.52
1:M:699:ALA:HA	1:N:690:ARG:HH11	1.73	0.52
1:N:13:TYR:HH	1:O:85:HIS:CE1	2.19	0.52
1:O:124:LYS:HG2	1:O:160:VAL:CG2	2.39	0.52
1:P:499:SER:HA	1:P:512:ARG:HG3	1.91	0.52
1:Q:699:ALA:HA	1:R:690:ARG:HH11	1.73	0.52
1:S:579:VAL:O	1:S:583:VAL:HG13	2.10	0.52
1:S:706:LEU:HD11	1:T:696:GLN:HB2	1.91	0.52
1:S:794:LYS:HZ3	1:T:789:ASN:N	2.07	0.52
1:T:499:SER:HA	1:T:512:ARG:HG3	1.91	0.52
1:T:579:VAL:O	1:T:583:VAL:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:706:LEU:HD11	1:W:696:GLN:HB2	1.91	0.52
1:V:787:LEU:O	1:V:790:VAL:HG12	2.10	0.52
1:X:735:ILE:HG21	1:Y:727:GLU:HA	1.92	0.52
1:Y:564:VAL:HB	1:Y:631:ASN:HD21	1.74	0.52
1:a:203:ALA:HB2	1:b:192:THR:HB	1.91	0.52
1:b:787:LEU:O	1:b:790:VAL:HG12	2.10	0.52
1:c:533:ASP:HB3	1:c:588:PHE:CD2	2.44	0.52
1:e:787:LEU:O	1:e:790:VAL:HG12	2.10	0.52
1:i:392:ASP:O	1:i:396:GLY:N	2.40	0.52
1:i:770:LEU:HB2	1:i:774:ARG:NH1	2.22	0.52
1:j:185:ARG:HH21	1:j:207:ALA:HB2	1.74	0.52
1:j:794:LYS:HZ3	1:k:789:ASN:N	2.08	0.52
1:k:735:ILE:HG21	1:l:727:GLU:HA	1.92	0.52
1:k:751:LEU:HA	1:k:754:GLU:OE1	2.10	0.52
1:m:501:SER:OG	1:m:566:ASP:OD2	2.27	0.52
1:A:28:VAL:HG21	1:A:98:PRO:HB2	1.91	0.52
1:A:482:PHE:CD1	1:A:552:ARG:HD2	2.45	0.52
1:A:787:LEU:O	1:A:790:VAL:HG12	2.10	0.52
1:A:794:LYS:HZ3	1:B:789:ASN:N	2.07	0.52
1:G:28:VAL:HG21	1:G:98:PRO:HB2	1.91	0.52
1:G:579:VAL:O	1:G:583:VAL:HG13	2.10	0.52
1:H:564:VAL:HB	1:H:631:ASN:HD21	1.74	0.52
1:I:501:SER:OG	1:I:566:ASP:OD2	2.26	0.52
1:K:482:PHE:CD1	1:K:552:ARG:HD2	2.45	0.52
1:K:770:LEU:HB2	1:K:774:ARG:NH1	2.22	0.52
1:L:579:VAL:O	1:L:583:VAL:HG13	2.10	0.52
1:M:28:VAL:HG21	1:M:98:PRO:HB2	1.91	0.52
1:M:501:SER:OG	1:M:566:ASP:OD2	2.27	0.52
1:M:769:GLU:OE1	1:N:766:ARG:NH2	2.42	0.52
1:P:501:SER:OG	1:P:566:ASP:OD2	2.27	0.52
1:P:706:LEU:HD11	1:Q:696:GLN:HB2	1.91	0.52
1:R:470:VAL:HG12	1:R:495:PHE:HA	1.91	0.52
1:S:787:LEU:O	1:S:790:VAL:HG12	2.10	0.52
1:U:769:GLU:OE1	1:V:766:ARG:NH2	2.42	0.52
1:W:124:LYS:HG2	1:W:160:VAL:CG2	2.39	0.52
1:X:203:ALA:HB2	1:Y:192:THR:HB	1.91	0.52
1:X:579:VAL:O	1:X:583:VAL:HG13	2.10	0.52
1:X:781:VAL:O	1:X:785:GLN:NE2	2.42	0.52
1:Y:28:VAL:HG21	1:Y:98:PRO:HB2	1.91	0.52
1:Z:698:GLU:HA	1:Z:701:LYS:HE2	1.91	0.52
1:a:533:ASP:HB3	1:a:588:PHE:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:751:LEU:HA	1:a:754:GLU:OE1	2.10	0.52
1:b:688:LEU:HG	1:b:691:GLN:HE21	1.74	0.52
1:b:781:VAL:O	1:b:785:GLN:NE2	2.42	0.52
1:b:794:LYS:HZ3	1:c:789:ASN:N	2.07	0.52
1:c:706:LEU:HD11	1:d:696:GLN:HB2	1.91	0.52
1:c:769:GLU:OE1	1:d:766:ARG:NH2	2.42	0.52
1:e:124:LYS:HG2	1:e:160:VAL:CG2	2.39	0.52
1:e:564:VAL:HB	1:e:631:ASN:HD21	1.74	0.52
1:e:688:LEU:HG	1:e:691:GLN:HE21	1.74	0.52
1:l:713:SER:HA	1:m:704:LYS:HZ2	1.75	0.52
1:m:482:PHE:CD1	1:m:552:ARG:HD2	2.45	0.52
1:A:769:GLU:OE1	1:B:766:ARG:NH2	2.42	0.52
1:B:735:ILE:HG21	1:C:727:GLU:HA	1.92	0.52
1:F:482:PHE:CD1	1:F:552:ARG:HD2	2.45	0.52
1:F:787:LEU:O	1:F:790:VAL:HG12	2.10	0.52
1:G:185:ARG:HH21	1:G:207:ALA:HB2	1.74	0.52
1:G:564:VAL:HB	1:G:631:ASN:HD21	1.74	0.52
1:H:56:ARG:HH12	1:I:156:GLU:HA	1.75	0.52
1:I:28:VAL:HG21	1:I:98:PRO:HB2	1.91	0.52
1:K:470:VAL:HG12	1:K:495:PHE:HA	1.91	0.52
1:K:564:VAL:HB	1:K:631:ASN:HD21	1.74	0.52
1:L:203:ALA:HB2	1:M:192:THR:HB	1.91	0.52
1:L:698:GLU:HA	1:L:701:LYS:HE2	1.91	0.52
1:N:787:LEU:O	1:N:790:VAL:HG12	2.10	0.52
1:P:662:ILE:O	1:P:666:THR:HG23	2.10	0.52
1:P:735:ILE:HG21	1:Q:727:GLU:HA	1.92	0.52
1:Q:579:VAL:O	1:Q:583:VAL:HG13	2.10	0.52
1:Q:688:LEU:HG	1:Q:691:GLN:HE21	1.74	0.52
1:S:665:THR:OG1	1:T:589:ASP:OD2	2.19	0.52
1:S:751:LEU:HA	1:S:754:GLU:OE1	2.10	0.52
1:U:781:VAL:O	1:U:785:GLN:NE2	2.42	0.52
1:W:56:ARG:HH12	1:X:156:GLU:HA	1.75	0.52
1:X:124:LYS:HG2	1:X:160:VAL:CG2	2.39	0.52
1:X:564:VAL:HB	1:X:631:ASN:HD21	1.74	0.52
1:X:706:LEU:HD11	1:Y:696:GLN:HB2	1.91	0.52
1:Z:579:VAL:O	1:Z:583:VAL:HG13	2.10	0.52
1:a:688:LEU:HG	1:a:691:GLN:HE21	1.75	0.52
1:b:56:ARG:HH12	1:c:156:GLU:HA	1.75	0.52
1:b:564:VAL:HB	1:b:631:ASN:HD21	1.74	0.52
1:b:699:ALA:HA	1:c:690:ARG:HH11	1.73	0.52
1:d:688:LEU:HG	1:d:691:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:203:ALA:HB2	1:f:192:THR:HB	1.91	0.52
1:e:706:LEU:HD11	1:f:696:GLN:HB2	1.91	0.52
1:f:579:VAL:O	1:f:583:VAL:HG13	2.10	0.52
1:h:56:ARG:HH12	1:i:156:GLU:HA	1.75	0.52
1:h:533:ASP:HB3	1:h:588:PHE:CD2	2.44	0.52
1:i:735:ILE:HG21	1:j:727:GLU:HA	1.92	0.52
1:k:769:GLU:OE1	1:l:766:ARG:NH2	2.42	0.52
1:k:770:LEU:HB2	1:k:774:ARG:NH1	2.22	0.52
1:l:28:VAL:HG21	1:l:98:PRO:HB2	1.91	0.52
1:A:698:GLU:HA	1:A:701:LYS:HE2	1.91	0.52
1:B:499:SER:HA	1:B:512:ARG:HG3	1.91	0.52
1:B:751:LEU:HA	1:B:754:GLU:OE1	2.10	0.52
1:C:28:VAL:HG21	1:C:98:PRO:HB2	1.91	0.52
1:C:769:GLU:OE1	1:D:766:ARG:NH2	2.42	0.52
1:C:787:LEU:O	1:C:790:VAL:HG12	2.10	0.52
1:E:564:VAL:HB	1:E:631:ASN:HD21	1.74	0.52
1:F:28:VAL:HG21	1:F:98:PRO:HB2	1.91	0.52
1:F:769:GLU:OE1	1:G:766:ARG:NH2	2.42	0.52
1:G:203:ALA:HB2	1:H:192:THR:HB	1.91	0.52
1:G:470:VAL:HG12	1:G:495:PHE:HA	1.91	0.52
1:G:662:ILE:O	1:G:666:THR:HG23	2.10	0.52
1:G:787:LEU:O	1:G:790:VAL:HG12	2.10	0.52
1:H:470:VAL:HG12	1:H:495:PHE:HA	1.91	0.52
1:H:706:LEU:HD11	1:I:696:GLN:HB2	1.91	0.52
1:I:470:VAL:HG12	1:I:495:PHE:HA	1.90	0.52
1:J:482:PHE:CD1	1:J:552:ARG:HD2	2.45	0.52
1:L:501:SER:OG	1:L:566:ASP:OD2	2.27	0.52
1:N:218:ALA:HB2	1:N:260:VAL:HG22	1.92	0.52
1:N:501:SER:OG	1:N:566:ASP:OD2	2.27	0.52
1:O:735:ILE:HG21	1:P:727:GLU:HA	1.92	0.52
1:O:751:LEU:HA	1:O:754:GLU:OE1	2.10	0.52
1:P:56:ARG:HH12	1:Q:156:GLU:HA	1.75	0.52
1:Q:698:GLU:HA	1:Q:701:LYS:HE2	1.91	0.52
1:R:579:VAL:O	1:R:583:VAL:HG13	2.10	0.52
1:S:124:LYS:HG2	1:S:160:VAL:CG2	2.39	0.52
1:T:662:ILE:O	1:T:666:THR:HG23	2.10	0.52
1:U:662:ILE:O	1:U:666:THR:HG23	2.10	0.52
1:U:770:LEU:HB2	1:U:774:ARG:NH1	2.22	0.52
1:V:28:VAL:HG21	1:V:98:PRO:HB2	1.91	0.52
1:V:218:ALA:HB2	1:V:260:VAL:HG22	1.92	0.52
1:W:203:ALA:HB2	1:X:192:THR:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:482:PHE:CD1	1:X:552:ARG:HD2	2.45	0.52
1:X:662:ILE:O	1:X:666:THR:HG23	2.10	0.52
1:Y:482:PHE:CD1	1:Y:552:ARG:HD2	2.45	0.52
1:Z:499:SER:HA	1:Z:512:ARG:HG3	1.91	0.52
1:a:735:ILE:HG21	1:b:727:GLU:HA	1.92	0.52
1:b:735:ILE:HG21	1:c:727:GLU:HA	1.92	0.52
1:b:770:LEU:HB2	1:b:774:ARG:NH1	2.22	0.52
1:c:28:VAL:HG21	1:c:98:PRO:HB2	1.91	0.52
1:c:688:LEU:HG	1:c:691:GLN:HE21	1.74	0.52
1:c:787:LEU:O	1:c:790:VAL:HG12	2.10	0.52
1:d:769:GLU:OE1	1:e:766:ARG:NH2	2.42	0.52
1:d:787:LEU:O	1:d:790:VAL:HG12	2.10	0.52
1:e:662:ILE:O	1:e:666:THR:HG23	2.10	0.52
1:f:699:ALA:HA	1:g:690:ARG:HH11	1.73	0.52
1:g:482:PHE:CD1	1:g:552:ARG:HD2	2.45	0.52
1:g:706:LEU:HD11	1:h:696:GLN:HB2	1.91	0.52
1:g:735:ILE:HG21	1:h:727:GLU:HA	1.92	0.52
1:h:482:PHE:CD1	1:h:552:ARG:HD2	2.45	0.52
1:h:751:LEU:HA	1:h:754:GLU:OE1	2.10	0.52
1:h:769:GLU:OE1	1:i:766:ARG:NH2	2.42	0.52
1:j:735:ILE:HG21	1:k:727:GLU:HA	1.92	0.52
1:l:56:ARG:HH12	1:m:156:GLU:HA	1.75	0.52
1:l:706:LEU:HD11	1:m:696:GLN:HB2	1.91	0.52
1:l:787:LEU:O	1:l:790:VAL:HG12	2.10	0.52
1:A:470:VAL:HG12	1:A:495:PHE:HA	1.91	0.52
1:D:662:ILE:O	1:D:666:THR:HG23	2.10	0.52
1:E:482:PHE:CD1	1:E:552:ARG:HD2	2.45	0.52
1:E:783:LYS:HD3	1:F:777:LEU:HD22	1.92	0.52
1:F:735:ILE:HG21	1:G:727:GLU:HA	1.92	0.52
1:I:124:LYS:HG2	1:I:160:VAL:CG2	2.39	0.52
1:J:28:VAL:HG21	1:J:98:PRO:HB2	1.91	0.52
1:J:751:LEU:HA	1:J:754:GLU:OE1	2.10	0.52
1:K:662:ILE:O	1:K:666:THR:HG23	2.10	0.52
1:L:751:LEU:HA	1:L:754:GLU:OE1	2.10	0.52
1:M:392:ASP:O	1:M:396:GLY:N	2.40	0.52
1:N:28:VAL:HG21	1:N:98:PRO:HB2	1.91	0.52
1:N:124:LYS:HG2	1:N:160:VAL:CG2	2.39	0.52
1:N:751:LEU:HA	1:N:754:GLU:OE1	2.10	0.52
1:O:501:SER:OG	1:O:566:ASP:OD2	2.27	0.52
1:P:482:PHE:CD1	1:P:552:ARG:HD2	2.45	0.52
1:P:698:GLU:HA	1:P:701:LYS:HE2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:751:LEU:HA	1:P:754:GLU:OE1	2.10	0.52
1:Q:56:ARG:HH12	1:R:156:GLU:HA	1.75	0.52
1:Q:706:LEU:HD11	1:R:696:GLN:HB2	1.91	0.52
1:Q:769:GLU:OE1	1:R:766:ARG:NH2	2.42	0.52
1:U:735:ILE:HG21	1:V:727:GLU:HA	1.92	0.52
1:U:751:LEU:HA	1:U:754:GLU:OE1	2.10	0.52
1:V:688:LEU:HG	1:V:691:GLN:HE21	1.74	0.52
1:W:735:ILE:HG21	1:X:727:GLU:HA	1.92	0.52
1:X:698:GLU:HA	1:X:701:LYS:HE2	1.91	0.52
1:Y:203:ALA:HB2	1:Z:192:THR:HB	1.91	0.52
1:Y:783:LYS:HD3	1:Z:777:LEU:HD22	1.92	0.52
1:b:706:LEU:HD11	1:c:696:GLN:HB2	1.91	0.52
1:d:579:VAL:O	1:d:583:VAL:HG13	2.10	0.52
1:f:470:VAL:HG12	1:f:495:PHE:HA	1.91	0.52
1:f:706:LEU:HD11	1:g:696:GLN:HB2	1.91	0.52
1:f:735:ILE:HG21	1:g:727:GLU:HA	1.92	0.52
1:g:124:LYS:HG2	1:g:160:VAL:CG2	2.39	0.52
1:g:579:VAL:O	1:g:583:VAL:HG13	2.10	0.52
1:g:787:LEU:O	1:g:790:VAL:HG12	2.10	0.52
1:h:603:VAL:HG23	1:h:604:PHE:CD1	2.45	0.52
1:i:751:LEU:HA	1:i:754:GLU:OE1	2.10	0.52
1:l:501:SER:OG	1:l:566:ASP:OD2	2.27	0.52
1:l:662:ILE:O	1:l:666:THR:HG23	2.10	0.52
1:l:735:ILE:HG21	1:m:727:GLU:HA	1.92	0.52
1:m:751:LEU:HA	1:m:754:GLU:OE1	2.10	0.52
1:A:56:ARG:HH12	1:B:156:GLU:HA	1.75	0.51
1:A:751:LEU:HA	1:A:754:GLU:OE1	2.10	0.51
1:A:770:LEU:HB2	1:A:774:ARG:NH1	2.22	0.51
1:A:779:LEU:HD22	1:B:774:ARG:HH21	1.73	0.51
1:A:780:GLU:HG3	1:A:783:LYS:HZ3	1.76	0.51
1:B:470:VAL:HG12	1:B:495:PHE:HA	1.91	0.51
1:E:751:LEU:HA	1:E:754:GLU:OE1	2.10	0.51
1:F:662:ILE:O	1:F:666:THR:HG23	2.10	0.51
1:F:751:LEU:HA	1:F:754:GLU:OE1	2.10	0.51
1:I:482:PHE:CD1	1:I:552:ARG:HD2	2.45	0.51
1:I:662:ILE:O	1:I:666:THR:HG23	2.10	0.51
1:J:533:ASP:HB3	1:J:588:PHE:CD2	2.44	0.51
1:J:662:ILE:O	1:J:666:THR:HG23	2.10	0.51
1:J:787:LEU:O	1:J:790:VAL:HG12	2.10	0.51
1:L:56:ARG:HH12	1:M:156:GLU:HA	1.75	0.51
1:L:603:VAL:HG23	1:L:604:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:218:ALA:HB2	1:M:260:VAL:HG22	1.92	0.51
1:N:203:ALA:HB2	1:O:192:THR:HB	1.91	0.51
1:N:735:ILE:HG21	1:O:727:GLU:HA	1.92	0.51
1:O:203:ALA:HB2	1:P:192:THR:HB	1.91	0.51
1:O:482:PHE:CD1	1:O:552:ARG:HD2	2.45	0.51
1:P:603:VAL:HG23	1:P:604:PHE:CD1	2.46	0.51
1:P:688:LEU:HG	1:P:691:GLN:HE21	1.74	0.51
1:P:770:LEU:HB2	1:P:774:ARG:NH1	2.22	0.51
1:Q:218:ALA:HB2	1:Q:260:VAL:HG22	1.93	0.51
1:Q:499:SER:HA	1:Q:512:ARG:HG3	1.91	0.51
1:Q:662:ILE:O	1:Q:666:THR:HG23	2.10	0.51
1:Q:751:LEU:HA	1:Q:754:GLU:OE1	2.10	0.51
1:Q:770:LEU:HB2	1:Q:774:ARG:NH1	2.22	0.51
1:S:13:TYR:HH	1:T:85:HIS:CE1	2.19	0.51
1:W:751:LEU:HA	1:W:754:GLU:OE1	2.10	0.51
1:X:751:LEU:HA	1:X:754:GLU:OE1	2.10	0.51
1:Y:56:ARG:HH12	1:Z:156:GLU:HA	1.75	0.51
1:b:751:LEU:HA	1:b:754:GLU:OE1	2.10	0.51
1:b:783:LYS:HD3	1:c:777:LEU:HD22	1.92	0.51
1:e:735:ILE:HG21	1:f:727:GLU:HA	1.92	0.51
1:f:56:ARG:HH12	1:g:156:GLU:HA	1.75	0.51
1:f:501:SER:OG	1:f:566:ASP:OD2	2.27	0.51
1:f:662:ILE:O	1:f:666:THR:HG23	2.10	0.51
1:f:698:GLU:HA	1:f:701:LYS:HE2	1.91	0.51
1:g:470:VAL:HG12	1:g:495:PHE:HA	1.91	0.51
1:h:203:ALA:HB2	1:i:192:THR:HB	1.91	0.51
1:h:218:ALA:HB2	1:h:260:VAL:HG22	1.92	0.51
1:i:218:ALA:HB2	1:i:260:VAL:HG22	1.92	0.51
1:j:783:LYS:HD3	1:k:777:LEU:HD22	1.93	0.51
1:k:482:PHE:CD1	1:k:552:ARG:HD2	2.45	0.51
1:k:533:ASP:HB3	1:k:588:PHE:CD2	2.44	0.51
1:l:482:PHE:CD1	1:l:552:ARG:HD2	2.45	0.51
1:l:533:ASP:HB3	1:l:588:PHE:CD2	2.44	0.51
1:l:603:VAL:HG23	1:l:604:PHE:CD1	2.46	0.51
1:A:185:ARG:HH21	1:A:207:ALA:HB2	1.74	0.51
1:A:501:SER:OG	1:A:566:ASP:OD2	2.27	0.51
1:F:783:LYS:HD3	1:G:777:LEU:HD22	1.92	0.51
1:G:482:PHE:CD1	1:G:552:ARG:HD2	2.45	0.51
1:G:603:VAL:HG23	1:G:604:PHE:CD1	2.46	0.51
1:G:735:ILE:HG21	1:H:727:GLU:HA	1.92	0.51
1:G:794:LYS:HZ3	1:H:789:ASN:N	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:603:VAL:HG23	1:H:604:PHE:CD1	2.46	0.51
1:H:751:LEU:HA	1:H:754:GLU:OE1	2.10	0.51
1:I:533:ASP:HB3	1:I:588:PHE:CD2	2.44	0.51
1:I:787:LEU:O	1:I:790:VAL:HG12	2.10	0.51
1:J:470:VAL:HG12	1:J:495:PHE:HA	1.91	0.51
1:J:735:ILE:HG21	1:K:727:GLU:HA	1.92	0.51
1:L:482:PHE:CD1	1:L:552:ARG:HD2	2.45	0.51
1:N:579:VAL:O	1:N:583:VAL:HG13	2.10	0.51
1:P:218:ALA:HB2	1:P:260:VAL:HG22	1.93	0.51
1:P:579:VAL:O	1:P:583:VAL:HG13	2.10	0.51
1:Q:482:PHE:CD1	1:Q:552:ARG:HD2	2.45	0.51
1:R:218:ALA:HB2	1:R:260:VAL:HG22	1.92	0.51
1:S:185:ARG:HH21	1:S:207:ALA:HB2	1.74	0.51
1:S:688:LEU:HG	1:S:691:GLN:HE21	1.74	0.51
1:T:56:ARG:HH12	1:U:156:GLU:HA	1.75	0.51
1:U:56:ARG:HH12	1:V:156:GLU:HA	1.75	0.51
1:U:533:ASP:HB3	1:U:588:PHE:CD2	2.44	0.51
1:X:501:SER:OG	1:X:566:ASP:OD2	2.27	0.51
1:Y:698:GLU:HA	1:Y:701:LYS:HE2	1.91	0.51
1:Z:218:ALA:HB2	1:Z:260:VAL:HG22	1.92	0.51
1:Z:787:LEU:O	1:Z:790:VAL:HG12	2.10	0.51
1:b:203:ALA:HB2	1:c:192:THR:HB	1.91	0.51
1:b:470:VAL:HG12	1:b:495:PHE:HA	1.91	0.51
1:b:662:ILE:O	1:b:666:THR:HG23	2.10	0.51
1:c:56:ARG:HH12	1:d:156:GLU:HA	1.75	0.51
1:c:783:LYS:HD3	1:d:777:LEU:HD22	1.92	0.51
1:d:662:ILE:O	1:d:666:THR:HG23	2.10	0.51
1:e:501:SER:OG	1:e:566:ASP:OD2	2.27	0.51
1:e:783:LYS:HD3	1:f:777:LEU:HD22	1.92	0.51
1:f:28:VAL:HG21	1:f:98:PRO:HB2	1.91	0.51
1:j:579:VAL:O	1:j:583:VAL:HG13	2.10	0.51
1:k:662:ILE:O	1:k:666:THR:HG23	2.10	0.51
1:m:579:VAL:O	1:m:583:VAL:HG13	2.10	0.51
1:B:56:ARG:HH12	1:C:156:GLU:HA	1.75	0.51
1:B:770:LEU:HB2	1:B:774:ARG:NH1	2.22	0.51
1:C:698:GLU:HA	1:C:701:LYS:HE2	1.91	0.51
1:D:482:PHE:CD1	1:D:552:ARG:HD2	2.45	0.51
1:D:779:LEU:HD11	1:E:777:LEU:CD2	2.41	0.51
1:D:787:LEU:O	1:D:790:VAL:HG12	2.10	0.51
1:E:706:LEU:HD11	1:F:696:GLN:HB2	1.91	0.51
1:F:470:VAL:HG12	1:F:495:PHE:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:564:VAL:HB	1:F:631:ASN:HD21	1.74	0.51
1:G:751:LEU:HA	1:G:754:GLU:OE1	2.10	0.51
1:H:499:SER:HA	1:H:512:ARG:HG3	1.91	0.51
1:J:579:VAL:O	1:J:583:VAL:HG13	2.10	0.51
1:K:603:VAL:HG23	1:K:604:PHE:CD1	2.46	0.51
1:M:564:VAL:HB	1:M:631:ASN:HD21	1.74	0.51
1:M:751:LEU:HA	1:M:754:GLU:OE1	2.10	0.51
1:M:783:LYS:HD3	1:N:777:LEU:HD22	1.93	0.51
1:N:56:ARG:HH12	1:O:156:GLU:HA	1.75	0.51
1:O:218:ALA:HB2	1:O:260:VAL:HG22	1.92	0.51
1:P:779:LEU:HD22	1:Q:774:ARG:HH21	1.73	0.51
1:Q:735:ILE:HG21	1:R:727:GLU:HA	1.92	0.51
1:Q:787:LEU:O	1:Q:790:VAL:HG12	2.10	0.51
1:R:499:SER:HA	1:R:512:ARG:HG3	1.91	0.51
1:S:603:VAL:HG23	1:S:604:PHE:CD1	2.46	0.51
1:U:501:SER:OG	1:U:566:ASP:OD2	2.26	0.51
1:W:501:SER:OG	1:W:566:ASP:OD2	2.26	0.51
1:a:579:VAL:O	1:a:583:VAL:HG13	2.10	0.51
1:b:482:PHE:CD1	1:b:552:ARG:HD2	2.45	0.51
1:c:218:ALA:HB2	1:c:260:VAL:HG22	1.92	0.51
1:d:751:LEU:HA	1:d:754:GLU:OE1	2.10	0.51
1:e:56:ARG:HH12	1:f:156:GLU:HA	1.75	0.51
1:e:579:VAL:O	1:e:583:VAL:HG13	2.10	0.51
1:g:779:LEU:HD22	1:h:774:ARG:HH21	1.72	0.51
1:h:787:LEU:O	1:h:790:VAL:HG12	2.10	0.51
1:i:564:VAL:HB	1:i:631:ASN:HD21	1.74	0.51
1:j:768:MET:HE3	1:k:762:VAL:HG13	1.93	0.51
1:k:579:VAL:O	1:k:583:VAL:HG13	2.10	0.51
1:A:603:VAL:HG23	1:A:604:PHE:CD1	2.46	0.51
1:A:706:LEU:HD11	1:B:696:GLN:HB2	1.91	0.51
1:B:482:PHE:CD1	1:B:552:ARG:HD2	2.45	0.51
1:B:603:VAL:HG23	1:B:604:PHE:CD1	2.46	0.51
1:B:688:LEU:HG	1:B:691:GLN:HE21	1.74	0.51
1:C:662:ILE:O	1:C:666:THR:HG23	2.10	0.51
1:C:768:MET:HE3	1:D:762:VAL:HG13	1.93	0.51
1:C:783:LYS:HD3	1:D:777:LEU:HD22	1.92	0.51
1:D:218:ALA:HB2	1:D:260:VAL:HG22	1.93	0.51
1:D:564:VAL:HB	1:D:631:ASN:HD21	1.74	0.51
1:D:735:ILE:HG21	1:E:727:GLU:HA	1.92	0.51
1:E:218:ALA:HB2	1:E:260:VAL:HG22	1.93	0.51
1:I:218:ALA:HB2	1:I:260:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:751:LEU:HA	1:I:754:GLU:OE1	2.10	0.51
1:I:783:LYS:HD3	1:J:777:LEU:HD22	1.93	0.51
1:J:499:SER:HA	1:J:512:ARG:HG3	1.91	0.51
1:K:735:ILE:HG21	1:L:727:GLU:HA	1.92	0.51
1:L:769:GLU:OE1	1:M:766:ARG:NH2	2.42	0.51
1:M:56:ARG:HH12	1:N:156:GLU:HA	1.75	0.51
1:M:779:LEU:HD22	1:N:774:ARG:HH21	1.73	0.51
1:N:698:GLU:HA	1:N:701:LYS:HE2	1.91	0.51
1:O:768:MET:HE3	1:P:762:VAL:HG13	1.93	0.51
1:Q:603:VAL:HG23	1:Q:604:PHE:CD1	2.46	0.51
1:Q:783:LYS:HD3	1:R:777:LEU:HD22	1.93	0.51
1:R:665:THR:OG1	1:S:589:ASP:OD2	2.19	0.51
1:S:662:ILE:O	1:S:666:THR:HG23	2.10	0.51
1:S:735:ILE:HG21	1:T:727:GLU:HA	1.92	0.51
1:U:787:LEU:O	1:U:790:VAL:HG12	2.10	0.51
1:W:768:MET:HE3	1:X:762:VAL:HG13	1.93	0.51
1:X:603:VAL:HG23	1:X:604:PHE:CD1	2.46	0.51
1:Z:56:ARG:HH12	1:a:156:GLU:HA	1.75	0.51
1:a:662:ILE:O	1:a:666:THR:HG23	2.10	0.51
1:f:768:MET:HE3	1:g:762:VAL:HG13	1.93	0.51
1:i:203:ALA:HB2	1:j:192:THR:HB	1.91	0.51
1:i:768:MET:HE3	1:j:762:VAL:HG13	1.93	0.51
1:i:779:LEU:HD11	1:j:777:LEU:CD2	2.41	0.51
1:i:783:LYS:HD3	1:j:777:LEU:HD22	1.93	0.51
1:j:698:GLU:HA	1:j:701:LYS:HE2	1.91	0.51
1:j:706:LEU:HD11	1:k:696:GLN:HB2	1.91	0.51
1:j:751:LEU:HA	1:j:754:GLU:OE1	2.10	0.51
1:k:787:LEU:O	1:k:790:VAL:HG12	2.10	0.51
1:l:783:LYS:HD3	1:m:777:LEU:HD22	1.92	0.51
1:m:688:LEU:HG	1:m:691:GLN:HE21	1.74	0.51
1:C:603:VAL:HG23	1:C:604:PHE:CD1	2.45	0.51
1:D:768:MET:HE3	1:E:762:VAL:HG13	1.93	0.51
1:F:56:ARG:HH12	1:G:156:GLU:HA	1.75	0.51
1:G:769:GLU:OE1	1:H:766:ARG:NH2	2.42	0.51
1:G:779:LEU:HD11	1:H:777:LEU:CD2	2.41	0.51
1:H:392:ASP:O	1:H:396:GLY:N	2.40	0.51
1:H:688:LEU:HG	1:H:691:GLN:HE21	1.74	0.51
1:I:56:ARG:HH12	1:J:156:GLU:HA	1.75	0.51
1:I:579:VAL:O	1:I:583:VAL:HG13	2.10	0.51
1:I:779:LEU:HD11	1:J:777:LEU:CD2	2.41	0.51
1:J:768:MET:HE3	1:K:762:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:768:MET:HE3	1:L:762:VAL:HG13	1.93	0.51
1:L:688:LEU:HG	1:L:691:GLN:HE21	1.74	0.51
1:L:697:SER:O	1:L:701:LYS:HG3	2.11	0.51
1:M:662:ILE:O	1:M:666:THR:HG23	2.10	0.51
1:N:470:VAL:HG12	1:N:495:PHE:HA	1.90	0.51
1:R:699:ALA:HA	1:S:690:ARG:HH11	1.73	0.51
1:R:769:GLU:OE1	1:S:766:ARG:NH2	2.42	0.51
1:R:783:LYS:HD3	1:S:777:LEU:HD22	1.92	0.51
1:T:706:LEU:HD11	1:U:696:GLN:HB2	1.91	0.51
1:U:579:VAL:O	1:U:583:VAL:HG13	2.10	0.51
1:V:751:LEU:HA	1:V:754:GLU:OE1	2.10	0.51
1:W:533:ASP:HB3	1:W:588:PHE:CD2	2.44	0.51
1:W:698:GLU:HA	1:W:701:LYS:HE2	1.91	0.51
1:X:768:MET:HE3	1:Y:762:VAL:HG13	1.93	0.51
1:Y:662:ILE:O	1:Y:666:THR:HG23	2.10	0.51
1:Y:751:LEU:HA	1:Y:754:GLU:OE1	2.10	0.51
1:c:482:PHE:CD1	1:c:552:ARG:HD2	2.45	0.51
1:c:579:VAL:O	1:c:583:VAL:HG13	2.10	0.51
1:e:697:SER:O	1:e:701:LYS:HG3	2.11	0.51
1:e:751:LEU:HA	1:e:754:GLU:OE1	2.10	0.51
1:e:768:MET:HE3	1:f:762:VAL:HG13	1.93	0.51
1:f:482:PHE:CD1	1:f:552:ARG:HD2	2.45	0.51
1:j:603:VAL:HG23	1:j:604:PHE:CD1	2.46	0.51
1:k:698:GLU:HA	1:k:701:LYS:HE2	1.91	0.51
1:k:783:LYS:HD3	1:l:777:LEU:HD22	1.92	0.51
1:m:218:ALA:HB2	1:m:260:VAL:HG22	1.92	0.51
1:B:787:LEU:O	1:B:790:VAL:HG12	2.10	0.51
1:D:697:SER:O	1:D:701:LYS:HG3	2.11	0.51
1:E:56:ARG:HH12	1:F:156:GLU:HA	1.75	0.51
1:E:698:GLU:HA	1:E:701:LYS:HE2	1.91	0.51
1:E:787:LEU:O	1:E:790:VAL:HG12	2.10	0.51
1:G:56:ARG:HH12	1:H:156:GLU:HA	1.75	0.51
1:H:654:LEU:O	1:H:657:SER:OG	2.20	0.51
1:H:787:LEU:O	1:H:790:VAL:HG12	2.10	0.51
1:I:499:SER:HA	1:I:512:ARG:HG3	1.91	0.51
1:J:56:ARG:HH12	1:K:156:GLU:HA	1.75	0.51
1:L:662:ILE:O	1:L:666:THR:HG23	2.10	0.51
1:L:783:LYS:HD3	1:M:777:LEU:HD22	1.93	0.51
1:M:665:THR:OG1	1:N:589:ASP:OD2	2.19	0.51
1:M:698:GLU:HA	1:M:701:LYS:HE2	1.91	0.51
1:M:735:ILE:HG21	1:N:727:GLU:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:768:MET:HE3	1:O:762:VAL:HG13	1.93	0.51
1:O:564:VAL:HB	1:O:631:ASN:HD21	1.74	0.51
1:O:662:ILE:O	1:O:666:THR:HG23	2.10	0.51
1:O:697:SER:O	1:O:701:LYS:HG3	2.11	0.51
1:O:706:LEU:HD11	1:P:696:GLN:HB2	1.91	0.51
1:R:697:SER:O	1:R:701:LYS:HG3	2.11	0.51
1:S:482:PHE:CD1	1:S:552:ARG:HD2	2.45	0.51
1:S:499:SER:HA	1:S:512:ARG:HG3	1.91	0.51
1:T:482:PHE:CD1	1:T:552:ARG:HD2	2.45	0.51
1:T:768:MET:HE3	1:U:762:VAL:HG13	1.93	0.51
1:U:482:PHE:CD1	1:U:552:ARG:HD2	2.45	0.51
1:Y:770:LEU:HB2	1:Y:774:ARG:NH1	2.22	0.51
1:a:218:ALA:HB2	1:a:260:VAL:HG22	1.92	0.51
1:a:482:PHE:CD1	1:a:552:ARG:HD2	2.45	0.51
1:b:579:VAL:O	1:b:583:VAL:HG13	2.10	0.51
1:c:751:LEU:HA	1:c:754:GLU:OE1	2.10	0.51
1:d:13:TYR:HH	1:e:85:HIS:CE1	2.19	0.51
1:g:603:VAL:HG23	1:g:604:PHE:CD1	2.46	0.51
1:g:751:LEU:HA	1:g:754:GLU:OE1	2.10	0.51
1:j:28:VAL:HG21	1:j:98:PRO:HB2	1.91	0.51
1:j:218:ALA:HB2	1:j:260:VAL:HG22	1.92	0.51
1:j:662:ILE:O	1:j:666:THR:HG23	2.10	0.51
1:l:779:LEU:HD11	1:m:777:LEU:CD2	2.41	0.51
1:m:662:ILE:O	1:m:666:THR:HG23	2.10	0.51
1:A:218:ALA:HB2	1:A:260:VAL:HG22	1.93	0.51
1:A:697:SER:O	1:A:701:LYS:HG3	2.11	0.51
1:A:777:LEU:HD22	1:m:783:LYS:HD3	1.92	0.51
1:C:16:ILE:HG13	1:C:29:GLU:OE2	2.11	0.51
1:C:579:VAL:O	1:C:583:VAL:HG13	2.10	0.51
1:D:783:LYS:HD3	1:E:777:LEU:HD22	1.92	0.51
1:E:735:ILE:HG21	1:F:727:GLU:HA	1.92	0.51
1:F:579:VAL:O	1:F:583:VAL:HG13	2.10	0.51
1:I:735:ILE:HG21	1:J:727:GLU:HA	1.92	0.51
1:J:392:ASP:O	1:J:396:GLY:N	2.40	0.51
1:N:482:PHE:CD1	1:N:552:ARG:HD2	2.45	0.51
1:O:28:VAL:HG21	1:O:98:PRO:HB2	1.91	0.51
1:P:787:LEU:O	1:P:790:VAL:HG12	2.10	0.51
1:Q:16:ILE:HG13	1:Q:29:GLU:OE2	2.11	0.51
1:S:779:LEU:HD11	1:T:777:LEU:CD2	2.41	0.51
1:T:603:VAL:HG23	1:T:604:PHE:CD1	2.46	0.51
1:T:787:LEU:O	1:T:790:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:482:PHE:CD1	1:W:552:ARG:HD2	2.45	0.51
1:X:185:ARG:HH21	1:X:207:ALA:HB2	1.74	0.51
1:Y:603:VAL:HG23	1:Y:604:PHE:CD1	2.46	0.51
1:Z:482:PHE:CD1	1:Z:552:ARG:HD2	2.45	0.51
1:a:56:ARG:HH12	1:b:156:GLU:HA	1.75	0.51
1:a:706:LEU:HD11	1:b:696:GLN:HB2	1.91	0.51
1:a:787:LEU:O	1:a:790:VAL:HG12	2.10	0.51
1:f:770:LEU:HB2	1:f:774:ARG:NH1	2.22	0.51
1:g:218:ALA:HB2	1:g:260:VAL:HG22	1.93	0.51
1:i:482:PHE:CD1	1:i:552:ARG:HD2	2.45	0.51
1:i:706:LEU:HD11	1:j:696:GLN:HB2	1.91	0.51
1:k:603:VAL:HG23	1:k:604:PHE:CD1	2.46	0.51
1:k:697:SER:O	1:k:701:LYS:HG3	2.11	0.51
1:l:230:ARG:HH21	1:l:246:GLY:HA2	1.76	0.51
1:C:751:LEU:HA	1:C:754:GLU:OE1	2.10	0.51
1:D:706:LEU:HD11	1:E:696:GLN:HB2	1.91	0.51
1:E:16:ILE:HG13	1:E:29:GLU:OE2	2.11	0.51
1:F:697:SER:O	1:F:701:LYS:HG3	2.11	0.51
1:H:579:VAL:O	1:H:583:VAL:HG13	2.10	0.51
1:H:662:ILE:O	1:H:666:THR:HG23	2.10	0.51
1:I:603:VAL:HG23	1:I:604:PHE:CD1	2.46	0.51
1:L:218:ALA:HB2	1:L:260:VAL:HG22	1.93	0.51
1:L:779:LEU:HD11	1:M:777:LEU:CD2	2.41	0.51
1:L:794:LYS:HZ3	1:M:789:ASN:N	2.08	0.51
1:N:564:VAL:HB	1:N:631:ASN:HD21	1.74	0.51
1:O:787:LEU:O	1:O:790:VAL:HG12	2.10	0.51
1:R:56:ARG:HH12	1:S:156:GLU:HA	1.75	0.51
1:R:751:LEU:HA	1:R:754:GLU:OE1	2.10	0.51
1:T:698:GLU:HA	1:T:701:LYS:HE2	1.91	0.51
1:V:16:ILE:HG13	1:V:29:GLU:OE2	2.11	0.51
1:V:482:PHE:CD1	1:V:552:ARG:HD2	2.45	0.51
1:V:579:VAL:O	1:V:583:VAL:HG13	2.10	0.51
1:W:697:SER:O	1:W:701:LYS:HG3	2.11	0.51
1:W:787:LEU:O	1:W:790:VAL:HG12	2.10	0.51
1:X:28:VAL:HG21	1:X:98:PRO:HB2	1.91	0.51
1:Y:579:VAL:O	1:Y:583:VAL:HG13	2.10	0.51
1:Y:735:ILE:HG21	1:Z:727:GLU:HA	1.92	0.51
1:Z:768:MET:HE3	1:a:762:VAL:HG13	1.93	0.51
1:a:501:SER:OG	1:a:566:ASP:OD2	2.27	0.51
1:b:603:VAL:HG23	1:b:604:PHE:CD1	2.46	0.51
1:d:735:ILE:HG21	1:e:727:GLU:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:768:MET:HE3	1:e:762:VAL:HG13	1.93	0.51
1:f:783:LYS:HD3	1:g:777:LEU:HD22	1.92	0.51
1:g:56:ARG:HH12	1:h:156:GLU:HA	1.75	0.51
1:g:688:LEU:HG	1:g:691:GLN:HE21	1.74	0.51
1:h:697:SER:O	1:h:701:LYS:HG3	2.11	0.51
1:i:56:ARG:HH12	1:j:156:GLU:HA	1.75	0.51
1:i:603:VAL:HG23	1:i:604:PHE:CD1	2.46	0.51
1:j:13:TYR:HH	1:k:85:HIS:CE1	2.19	0.51
1:k:230:ARG:HH21	1:k:246:GLY:HA2	1.76	0.51
1:l:579:VAL:O	1:l:583:VAL:HG13	2.10	0.51
1:A:762:VAL:HG13	1:m:768:MET:HE3	1.93	0.51
1:B:218:ALA:HB2	1:B:260:VAL:HG22	1.92	0.51
1:B:783:LYS:HD3	1:C:777:LEU:HD22	1.93	0.51
1:C:230:ARG:HH21	1:C:246:GLY:HA2	1.76	0.51
1:D:603:VAL:HG23	1:D:604:PHE:CD1	2.46	0.51
1:F:16:ILE:HG13	1:F:29:GLU:OE2	2.11	0.51
1:H:218:ALA:HB2	1:H:260:VAL:HG22	1.93	0.51
1:H:482:PHE:CD1	1:H:552:ARG:HD2	2.45	0.51
1:I:697:SER:O	1:I:701:LYS:HG3	2.11	0.51
1:J:230:ARG:HH21	1:J:246:GLY:HA2	1.76	0.51
1:M:603:VAL:HG23	1:M:604:PHE:CD1	2.46	0.51
1:N:392:ASP:O	1:N:396:GLY:N	2.40	0.51
1:N:662:ILE:O	1:N:666:THR:HG23	2.10	0.51
1:N:688:LEU:HG	1:N:691:GLN:HE21	1.74	0.51
1:N:697:SER:O	1:N:701:LYS:HG3	2.11	0.51
1:O:779:LEU:HD11	1:P:777:LEU:CD2	2.41	0.51
1:P:16:ILE:HG13	1:P:29:GLU:OE2	2.11	0.51
1:P:779:LEU:HD11	1:Q:777:LEU:CD2	2.41	0.51
1:R:16:ILE:HG13	1:R:29:GLU:OE2	2.11	0.51
1:R:482:PHE:CD1	1:R:552:ARG:HD2	2.45	0.51
1:T:751:LEU:HA	1:T:754:GLU:OE1	2.10	0.51
1:U:768:MET:HE3	1:V:762:VAL:HG13	1.93	0.51
1:V:603:VAL:HG23	1:V:604:PHE:CD1	2.46	0.51
1:W:16:ILE:HG13	1:W:29:GLU:OE2	2.11	0.51
1:W:218:ALA:HB2	1:W:260:VAL:HG22	1.92	0.51
1:X:770:LEU:HB2	1:X:774:ARG:NH1	2.22	0.51
1:Y:218:ALA:HB2	1:Y:260:VAL:HG22	1.92	0.51
1:Z:697:SER:O	1:Z:701:LYS:HG3	2.11	0.51
1:c:16:ILE:HG13	1:c:29:GLU:OE2	2.11	0.51
1:g:16:ILE:HG13	1:g:29:GLU:OE2	2.11	0.51
1:h:56:ARG:HH11	1:i:126:LEU:HB2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:16:ILE:HG13	1:i:29:GLU:OE2	2.11	0.51
1:i:779:LEU:HD22	1:j:774:ARG:HH21	1.73	0.51
1:A:589:ASP:OD2	1:m:665:THR:OG1	2.19	0.51
1:C:56:ARG:HH12	1:D:156:GLU:HA	1.75	0.51
1:D:56:ARG:HH12	1:E:156:GLU:HA	1.75	0.51
1:E:603:VAL:HG23	1:E:604:PHE:CD1	2.46	0.51
1:G:218:ALA:HB2	1:G:260:VAL:HG22	1.92	0.51
1:K:761:ARG:O	1:K:765:VAL:HG22	2.11	0.51
1:L:56:ARG:HH11	1:M:126:LEU:HB2	1.76	0.51
1:M:16:ILE:HG13	1:M:29:GLU:OE2	2.11	0.51
1:M:482:PHE:CD1	1:M:552:ARG:HD2	2.45	0.51
1:M:768:MET:HE3	1:N:762:VAL:HG13	1.93	0.51
1:O:230:ARG:HH21	1:O:246:GLY:HA2	1.76	0.51
1:Q:761:ARG:O	1:Q:765:VAL:HG22	2.11	0.51
1:S:218:ALA:HB2	1:S:260:VAL:HG22	1.93	0.51
1:T:735:ILE:HG21	1:U:727:GLU:HA	1.92	0.51
1:V:662:ILE:O	1:V:666:THR:HG23	2.10	0.51
1:W:230:ARG:HH21	1:W:246:GLY:HA2	1.76	0.51
1:X:56:ARG:HH12	1:Y:156:GLU:HA	1.75	0.51
1:X:783:LYS:HD3	1:Y:777:LEU:HD22	1.93	0.51
1:Z:16:ILE:HG13	1:Z:29:GLU:OE2	2.11	0.51
1:Z:230:ARG:HH21	1:Z:246:GLY:HA2	1.76	0.51
1:a:230:ARG:HH21	1:a:246:GLY:HA2	1.76	0.51
1:a:768:MET:HE3	1:b:762:VAL:HG13	1.93	0.51
1:f:751:LEU:HA	1:f:754:GLU:OE1	2.10	0.51
1:f:779:LEU:HD11	1:g:777:LEU:CD2	2.41	0.51
1:h:170:GLN:HG3	1:h:201:VAL:HG11	1.94	0.51
1:l:697:SER:O	1:l:701:LYS:HG3	2.11	0.51
1:m:697:SER:O	1:m:701:LYS:HG3	2.11	0.51
1:A:16:ILE:HG13	1:A:29:GLU:OE2	2.11	0.50
1:A:662:ILE:O	1:A:666:THR:HG23	2.10	0.50
1:B:16:ILE:HG13	1:B:29:GLU:OE2	2.11	0.50
1:E:688:LEU:HG	1:E:691:GLN:HE21	1.74	0.50
1:E:779:LEU:HD11	1:F:777:LEU:CD2	2.41	0.50
1:F:603:VAL:HG23	1:F:604:PHE:CD1	2.46	0.50
1:F:779:LEU:HD11	1:G:777:LEU:CD2	2.41	0.50
1:G:697:SER:O	1:G:701:LYS:HG3	2.11	0.50
1:G:768:MET:HE3	1:H:762:VAL:HG13	1.93	0.50
1:H:735:ILE:HG21	1:I:727:GLU:HA	1.92	0.50
1:I:770:LEU:HB2	1:I:774:ARG:NH1	2.22	0.50
1:J:603:VAL:HG23	1:J:604:PHE:CD1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:697:SER:O	1:J:701:LYS:HG3	2.11	0.50
1:K:170:GLN:HG3	1:K:201:VAL:HG11	1.93	0.50
1:K:218:ALA:HB2	1:K:260:VAL:HG22	1.93	0.50
1:N:783:LYS:HD3	1:O:777:LEU:HD22	1.93	0.50
1:Q:56:ARG:HH11	1:R:126:LEU:HB2	1.76	0.50
1:V:230:ARG:HH21	1:V:246:GLY:HA2	1.76	0.50
1:X:56:ARG:HH11	1:Y:126:LEU:HB2	1.76	0.50
1:X:761:ARG:O	1:X:765:VAL:HG22	2.12	0.50
1:Y:688:LEU:HG	1:Y:691:GLN:HE21	1.74	0.50
1:Z:662:ILE:O	1:Z:666:THR:HG23	2.10	0.50
1:a:603:VAL:HG23	1:a:604:PHE:CD1	2.46	0.50
1:b:761:ARG:O	1:b:765:VAL:HG22	2.12	0.50
1:e:218:ALA:HB2	1:e:260:VAL:HG22	1.92	0.50
1:e:761:ARG:O	1:e:765:VAL:HG22	2.11	0.50
1:g:697:SER:O	1:g:701:LYS:HG3	2.11	0.50
1:g:698:GLU:HA	1:g:701:LYS:HE2	1.91	0.50
1:g:783:LYS:HD3	1:h:777:LEU:HD22	1.92	0.50
1:h:16:ILE:HG13	1:h:29:GLU:OE2	2.11	0.50
1:i:697:SER:O	1:i:701:LYS:HG3	2.11	0.50
1:j:482:PHE:CD1	1:j:552:ARG:HD2	2.45	0.50
1:j:688:LEU:HG	1:j:691:GLN:HE21	1.74	0.50
1:l:751:LEU:HA	1:l:754:GLU:OE1	2.10	0.50
1:m:170:GLN:HG3	1:m:201:VAL:HG11	1.93	0.50
1:m:603:VAL:HG23	1:m:604:PHE:CD1	2.46	0.50
1:A:156:GLU:HA	1:m:56:ARG:HH12	1.75	0.50
1:A:735:ILE:HG21	1:B:727:GLU:HA	1.92	0.50
1:A:779:LEU:HD11	1:B:777:LEU:CD2	2.41	0.50
1:F:170:GLN:HG3	1:F:201:VAL:HG11	1.94	0.50
1:F:501:SER:OG	1:F:566:ASP:OD2	2.27	0.50
1:G:230:ARG:HH21	1:G:246:GLY:HA2	1.76	0.50
1:H:56:ARG:HH11	1:I:126:LEU:HB2	1.76	0.50
1:I:16:ILE:HG13	1:I:29:GLU:OE2	2.11	0.50
1:I:706:LEU:HD11	1:J:696:GLN:HB2	1.91	0.50
1:L:169:LYS:HE3	1:L:172:GLN:HG3	1.94	0.50
1:L:706:LEU:HD11	1:M:696:GLN:HB2	1.91	0.50
1:L:735:ILE:HG21	1:M:727:GLU:HA	1.92	0.50
1:M:122:HIS:HB2	1:M:163:ILE:HD11	1.94	0.50
1:O:603:VAL:HG23	1:O:604:PHE:CD1	2.46	0.50
1:O:783:LYS:HD3	1:P:777:LEU:HD22	1.93	0.50
1:P:768:MET:HE3	1:Q:762:VAL:HG13	1.93	0.50
1:R:662:ILE:O	1:R:666:THR:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:761:ARG:O	1:R:765:VAL:HG22	2.11	0.50
1:S:779:LEU:HD22	1:T:774:ARG:HH21	1.73	0.50
1:W:170:GLN:HG3	1:W:201:VAL:HG11	1.94	0.50
1:W:706:LEU:HD11	1:X:696:GLN:HB2	1.91	0.50
1:Y:16:ILE:HG13	1:Y:29:GLU:OE2	2.11	0.50
1:Z:603:VAL:HG23	1:Z:604:PHE:CD1	2.46	0.50
1:Z:751:LEU:HA	1:Z:754:GLU:OE1	2.10	0.50
1:Z:779:LEU:HD11	1:a:777:LEU:CD2	2.41	0.50
1:c:56:ARG:HH11	1:d:126:LEU:HB2	1.76	0.50
1:d:218:ALA:HB2	1:d:260:VAL:HG22	1.92	0.50
1:d:603:VAL:HG23	1:d:604:PHE:CD1	2.46	0.50
1:e:170:GLN:HG3	1:e:201:VAL:HG11	1.93	0.50
1:e:482:PHE:CD1	1:e:552:ARG:HD2	2.45	0.50
1:e:603:VAL:HG23	1:e:604:PHE:CD1	2.46	0.50
1:h:662:ILE:O	1:h:666:THR:HG23	2.10	0.50
1:h:706:LEU:HD11	1:i:696:GLN:HB2	1.91	0.50
1:j:56:ARG:HH11	1:k:126:LEU:HB2	1.76	0.50
1:k:218:ALA:HB2	1:k:260:VAL:HG22	1.92	0.50
1:m:16:ILE:HG13	1:m:29:GLU:OE2	2.11	0.50
1:m:761:ARG:O	1:m:765:VAL:HG22	2.11	0.50
1:A:56:ARG:HH11	1:B:126:LEU:HB2	1.76	0.50
1:A:727:GLU:HA	1:m:735:ILE:HG21	1.92	0.50
1:A:783:LYS:HD3	1:B:777:LEU:HD22	1.92	0.50
1:B:662:ILE:O	1:B:666:THR:HG23	2.10	0.50
1:C:170:GLN:HG3	1:C:201:VAL:HG11	1.94	0.50
1:C:482:PHE:CD1	1:C:552:ARG:HD2	2.45	0.50
1:C:697:SER:O	1:C:701:LYS:HG3	2.11	0.50
1:C:735:ILE:HG21	1:D:727:GLU:HA	1.92	0.50
1:G:783:LYS:HD3	1:H:777:LEU:HD22	1.92	0.50
1:H:779:LEU:HD11	1:I:777:LEU:CD2	2.41	0.50
1:J:16:ILE:HG13	1:J:29:GLU:OE2	2.11	0.50
1:K:56:ARG:HH11	1:L:126:LEU:HB2	1.76	0.50
1:K:783:LYS:HD3	1:L:777:LEU:HD22	1.92	0.50
1:L:170:GLN:HG3	1:L:201:VAL:HG11	1.93	0.50
1:N:16:ILE:HG13	1:N:29:GLU:OE2	2.11	0.50
1:O:56:ARG:HH12	1:P:156:GLU:HA	1.75	0.50
1:R:735:ILE:HG21	1:S:727:GLU:HA	1.92	0.50
1:T:761:ARG:O	1:T:765:VAL:HG22	2.11	0.50
1:V:56:ARG:HH11	1:W:126:LEU:HB2	1.76	0.50
1:Y:697:SER:O	1:Y:701:LYS:HG3	2.11	0.50
1:Z:122:HIS:HB2	1:Z:163:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:761:ARG:O	1:a:765:VAL:HG22	2.12	0.50
1:c:654:LEU:O	1:c:657:SER:OG	2.20	0.50
1:c:697:SER:O	1:c:701:LYS:HG3	2.11	0.50
1:f:16:ILE:HG13	1:f:29:GLU:OE2	2.11	0.50
1:i:662:ILE:O	1:i:666:THR:HG23	2.10	0.50
1:i:761:ARG:O	1:i:765:VAL:HG22	2.11	0.50
1:j:56:ARG:HH12	1:k:156:GLU:HA	1.75	0.50
1:k:706:LEU:HD11	1:l:696:GLN:HB2	1.91	0.50
1:l:665:THR:OG1	1:m:589:ASP:OD2	2.19	0.50
1:B:13:TYR:HH	1:C:85:HIS:CE1	2.18	0.50
1:C:218:ALA:HB2	1:C:260:VAL:HG22	1.92	0.50
1:E:662:ILE:O	1:E:666:THR:HG23	2.10	0.50
1:F:13:TYR:HH	1:G:85:HIS:CE1	2.18	0.50
1:F:230:ARG:HH21	1:F:246:GLY:HA2	1.76	0.50
1:F:761:ARG:O	1:F:765:VAL:HG22	2.12	0.50
1:G:56:ARG:HH11	1:H:126:LEU:HB2	1.76	0.50
1:G:761:ARG:O	1:G:765:VAL:HG22	2.11	0.50
1:K:697:SER:O	1:K:701:LYS:HG3	2.11	0.50
1:L:16:ILE:HG13	1:L:29:GLU:OE2	2.11	0.50
1:O:761:ARG:O	1:O:765:VAL:HG22	2.12	0.50
1:P:783:LYS:HD3	1:Q:777:LEU:HD22	1.92	0.50
1:Q:230:ARG:HH21	1:Q:246:GLY:HA2	1.76	0.50
1:R:230:ARG:HH21	1:R:246:GLY:HA2	1.76	0.50
1:V:697:SER:O	1:V:701:LYS:HG3	2.11	0.50
1:V:768:MET:HE3	1:W:762:VAL:HG13	1.93	0.50
1:V:783:LYS:HD3	1:W:777:LEU:HD22	1.93	0.50
1:W:603:VAL:HG23	1:W:604:PHE:CD1	2.46	0.50
1:W:761:ARG:O	1:W:765:VAL:HG22	2.12	0.50
1:a:170:GLN:HG3	1:a:201:VAL:HG11	1.94	0.50
1:b:218:ALA:HB2	1:b:260:VAL:HG22	1.92	0.50
1:c:662:ILE:O	1:c:666:THR:HG23	2.10	0.50
1:c:761:ARG:O	1:c:765:VAL:HG22	2.12	0.50
1:c:770:LEU:HB2	1:c:774:ARG:NH1	2.22	0.50
1:d:56:ARG:HH11	1:e:126:LEU:HB2	1.76	0.50
1:d:482:PHE:CD1	1:d:552:ARG:HD2	2.45	0.50
1:e:56:ARG:HH11	1:f:126:LEU:HB2	1.76	0.50
1:f:56:ARG:HH11	1:g:126:LEU:HB2	1.76	0.50
1:j:665:THR:OG1	1:k:589:ASP:OD2	2.19	0.50
1:k:56:ARG:HH12	1:l:156:GLU:HA	1.75	0.50
1:A:768:MET:HE3	1:B:762:VAL:HG13	1.93	0.50
1:B:392:ASP:O	1:B:396:GLY:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:122:HIS:HB2	1:E:163:ILE:HD11	1.94	0.50
1:F:392:ASP:O	1:F:396:GLY:N	2.40	0.50
1:G:170:GLN:HG3	1:G:201:VAL:HG11	1.93	0.50
1:H:169:LYS:HE3	1:H:172:GLN:HG3	1.94	0.50
1:H:230:ARG:HH21	1:H:246:GLY:HA2	1.76	0.50
1:J:122:HIS:HB2	1:J:163:ILE:HD11	1.94	0.50
1:J:761:ARG:O	1:J:765:VAL:HG22	2.12	0.50
1:K:56:ARG:HH12	1:L:156:GLU:HA	1.75	0.50
1:P:56:ARG:HH11	1:Q:126:LEU:HB2	1.76	0.50
1:Q:122:HIS:HB2	1:Q:163:ILE:HD11	1.94	0.50
1:S:56:ARG:HH11	1:T:126:LEU:HB2	1.76	0.50
1:S:56:ARG:HH12	1:T:156:GLU:HA	1.75	0.50
1:T:169:LYS:HE3	1:T:172:GLN:HG3	1.94	0.50
1:T:170:GLN:HG3	1:T:201:VAL:HG11	1.93	0.50
1:T:779:LEU:HD11	1:U:777:LEU:CD2	2.41	0.50
1:U:603:VAL:HG23	1:U:604:PHE:CD1	2.45	0.50
1:U:761:ARG:O	1:U:765:VAL:HG22	2.11	0.50
1:V:56:ARG:HH12	1:W:156:GLU:HA	1.75	0.50
1:V:170:GLN:HG3	1:V:201:VAL:HG11	1.93	0.50
1:W:122:HIS:HB2	1:W:163:ILE:HD11	1.94	0.50
1:W:328:GLU:HG3	1:X:394:LYS:HE3	1.94	0.50
1:W:783:LYS:HD3	1:X:777:LEU:HD22	1.92	0.50
1:X:169:LYS:HE3	1:X:172:GLN:HG3	1.94	0.50
1:X:697:SER:O	1:X:701:LYS:HG3	2.11	0.50
1:Y:56:ARG:HH11	1:Z:126:LEU:HB2	1.76	0.50
1:Z:170:GLN:HG3	1:Z:201:VAL:HG11	1.93	0.50
1:a:169:LYS:HE3	1:a:172:GLN:HG3	1.94	0.50
1:a:783:LYS:HD3	1:b:777:LEU:HD22	1.93	0.50
1:b:170:GLN:HG3	1:b:201:VAL:HG11	1.93	0.50
1:d:56:ARG:HH12	1:e:156:GLU:HA	1.75	0.50
1:e:122:HIS:HB2	1:e:163:ILE:HD11	1.94	0.50
1:g:768:MET:HE3	1:h:762:VAL:HG13	1.93	0.50
1:l:122:HIS:HB2	1:l:163:ILE:HD11	1.94	0.50
1:l:169:LYS:HE3	1:l:172:GLN:HG3	1.94	0.50
1:l:170:GLN:HG3	1:l:201:VAL:HG11	1.94	0.50
1:l:768:MET:HE3	1:m:762:VAL:HG13	1.93	0.50
1:m:122:HIS:HB2	1:m:163:ILE:HD11	1.94	0.50
1:m:580:ARG:HA	1:m:583:VAL:HG22	1.94	0.50
1:B:697:SER:O	1:B:701:LYS:HG3	2.11	0.50
1:B:768:MET:HE3	1:C:762:VAL:HG13	1.93	0.50
1:D:169:LYS:HE3	1:D:172:GLN:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:56:ARG:HH11	1:F:126:LEU:HB2	1.76	0.50
1:F:56:ARG:HH11	1:G:126:LEU:HB2	1.76	0.50
1:F:768:MET:HE3	1:G:762:VAL:HG13	1.93	0.50
1:F:770:LEU:HB2	1:F:774:ARG:NH1	2.22	0.50
1:H:783:LYS:HD3	1:I:777:LEU:HD22	1.93	0.50
1:I:230:ARG:HH21	1:I:246:GLY:HA2	1.76	0.50
1:J:783:LYS:HD3	1:K:777:LEU:HD22	1.92	0.50
1:L:230:ARG:HH21	1:L:246:GLY:HA2	1.76	0.50
1:M:56:ARG:HH11	1:N:126:LEU:HB2	1.76	0.50
1:M:328:GLU:HG3	1:N:394:LYS:HE3	1.94	0.50
1:N:603:VAL:HG23	1:N:604:PHE:CD1	2.46	0.50
1:N:761:ARG:O	1:N:765:VAL:HG22	2.12	0.50
1:O:16:ILE:HG13	1:O:29:GLU:OE2	2.11	0.50
1:O:579:VAL:O	1:O:583:VAL:HG13	2.10	0.50
1:P:230:ARG:HH21	1:P:246:GLY:HA2	1.76	0.50
1:Q:768:MET:HE3	1:R:762:VAL:HG13	1.93	0.50
1:S:230:ARG:HH21	1:S:246:GLY:HA2	1.76	0.50
1:S:580:ARG:HA	1:S:583:VAL:HG22	1.94	0.50
1:T:230:ARG:HH21	1:T:246:GLY:HA2	1.76	0.50
1:V:278:PRO:HD3	1:W:297:GLY:O	2.12	0.50
1:W:169:LYS:HE3	1:W:172:GLN:HG3	1.94	0.50
1:W:580:ARG:HA	1:W:583:VAL:HG22	1.94	0.50
1:W:662:ILE:O	1:W:666:THR:HG23	2.10	0.50
1:X:779:LEU:HD11	1:Y:777:LEU:CD2	2.41	0.50
1:Z:735:ILE:HG21	1:a:727:GLU:HA	1.92	0.50
1:b:392:ASP:O	1:b:396:GLY:N	2.40	0.50
1:c:603:VAL:HG23	1:c:604:PHE:CD1	2.46	0.50
1:d:169:LYS:HE3	1:d:172:GLN:HG3	1.94	0.50
1:e:770:LEU:HB2	1:e:774:ARG:NH1	2.22	0.50
1:f:218:ALA:HB2	1:f:260:VAL:HG22	1.92	0.50
1:f:603:VAL:HG23	1:f:604:PHE:CD1	2.45	0.50
1:g:230:ARG:HH21	1:g:246:GLY:HA2	1.76	0.50
1:k:16:ILE:HG13	1:k:29:GLU:OE2	2.11	0.50
1:k:768:MET:HE3	1:l:762:VAL:HG13	1.93	0.50
1:l:16:ILE:HG13	1:l:29:GLU:OE2	2.11	0.50
1:l:56:ARG:HH11	1:m:126:LEU:HB2	1.76	0.50
1:A:761:ARG:O	1:A:765:VAL:HG22	2.11	0.50
1:B:170:GLN:HG3	1:B:201:VAL:HG11	1.94	0.50
1:B:230:ARG:HH21	1:B:246:GLY:HA2	1.76	0.50
1:C:122:HIS:HB2	1:C:163:ILE:HD11	1.94	0.50
1:D:580:ARG:HA	1:D:583:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:761:ARG:O	1:D:765:VAL:HG22	2.11	0.50
1:E:169:LYS:HE3	1:E:172:GLN:HG3	1.94	0.50
1:E:761:ARG:O	1:E:765:VAL:HG22	2.11	0.50
1:F:780:GLU:HG3	1:F:783:LYS:HZ3	1.75	0.50
1:H:278:PRO:HD3	1:I:297:GLY:O	2.12	0.50
1:H:580:ARG:HA	1:H:583:VAL:HG22	1.94	0.50
1:H:768:MET:HE3	1:I:762:VAL:HG13	1.93	0.50
1:L:16:ILE:HD12	1:L:43:VAL:HG13	1.94	0.50
1:M:230:ARG:HH21	1:M:246:GLY:HA2	1.76	0.50
1:N:170:GLN:HG3	1:N:201:VAL:HG11	1.93	0.50
1:Q:697:SER:O	1:Q:701:LYS:HG3	2.11	0.50
1:R:580:ARG:HA	1:R:583:VAL:HG22	1.94	0.50
1:R:603:VAL:HG23	1:R:604:PHE:CD1	2.46	0.50
1:S:768:MET:HE3	1:T:762:VAL:HG13	1.93	0.50
1:T:218:ALA:HB2	1:T:260:VAL:HG22	1.93	0.50
1:T:336:ALA:O	1:T:354:GLY:N	2.45	0.50
1:U:122:HIS:HB2	1:U:163:ILE:HD11	1.94	0.50
1:V:328:GLU:HG3	1:W:394:LYS:HE3	1.94	0.50
1:V:735:ILE:HG21	1:W:727:GLU:HA	1.92	0.50
1:W:336:ALA:O	1:W:354:GLY:N	2.45	0.50
1:X:122:HIS:HB2	1:X:163:ILE:HD11	1.94	0.50
1:X:230:ARG:HH21	1:X:246:GLY:HA2	1.76	0.50
1:Y:761:ARG:O	1:Y:765:VAL:HG22	2.12	0.50
1:Z:56:ARG:HH11	1:a:126:LEU:HB2	1.77	0.50
1:c:768:MET:HE3	1:d:762:VAL:HG13	1.93	0.50
1:e:758:GLU:HA	1:e:761:ARG:HG3	1.94	0.50
1:g:662:ILE:O	1:g:666:THR:HG23	2.10	0.50
1:g:669:GLN:HE22	1:h:660:LEU:HD11	1.77	0.50
1:g:779:LEU:HD11	1:h:777:LEU:CD2	2.41	0.50
1:h:783:LYS:HD3	1:i:777:LEU:HD22	1.92	0.50
1:m:169:LYS:HE3	1:m:172:GLN:HG3	1.94	0.50
1:C:56:ARG:HH11	1:D:126:LEU:HB2	1.76	0.50
1:C:758:GLU:HA	1:C:761:ARG:HG3	1.94	0.50
1:D:16:ILE:HG13	1:D:29:GLU:OE2	2.11	0.50
1:D:16:ILE:HD12	1:D:43:VAL:HG13	1.94	0.50
1:D:328:GLU:HG3	1:E:394:LYS:HE3	1.94	0.50
1:E:328:GLU:HG3	1:F:394:LYS:HE3	1.94	0.50
1:E:768:MET:HE3	1:F:762:VAL:HG13	1.93	0.50
1:G:169:LYS:HE3	1:G:172:GLN:HG3	1.94	0.50
1:G:760:GLU:O	1:G:764:LYS:HG2	2.12	0.50
1:H:535:ALA:N	1:H:588:PHE:CE2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:HIS:HB2	1:I:163:ILE:HD11	1.94	0.50
1:I:761:ARG:O	1:I:765:VAL:HG22	2.11	0.50
1:I:768:MET:HE3	1:J:762:VAL:HG13	1.93	0.50
1:J:56:ARG:HH11	1:K:126:LEU:HB2	1.76	0.50
1:J:328:GLU:HG3	1:K:394:LYS:HE3	1.94	0.50
1:L:761:ARG:O	1:L:765:VAL:HG22	2.11	0.50
1:L:768:MET:HE3	1:M:762:VAL:HG13	1.93	0.50
1:M:535:ALA:N	1:M:588:PHE:CE2	2.80	0.50
1:O:278:PRO:HD3	1:P:297:GLY:O	2.12	0.50
1:P:278:PRO:HD3	1:Q:297:GLY:O	2.12	0.50
1:P:328:GLU:HG3	1:Q:394:LYS:HE3	1.94	0.50
1:P:760:GLU:O	1:P:764:LYS:HG2	2.12	0.50
1:S:16:ILE:HG13	1:S:29:GLU:OE2	2.11	0.50
1:S:768:MET:HA	1:S:771:ILE:HG22	1.94	0.50
1:T:669:GLN:HE22	1:U:660:LEU:HD11	1.77	0.50
1:T:697:SER:O	1:T:701:LYS:HG3	2.11	0.50
1:U:16:ILE:HG13	1:U:29:GLU:OE2	2.11	0.50
1:U:169:LYS:HE3	1:U:172:GLN:HG3	1.94	0.50
1:U:697:SER:O	1:U:701:LYS:HG3	2.11	0.50
1:U:783:LYS:HD3	1:V:777:LEU:HD22	1.93	0.50
1:V:535:ALA:N	1:V:588:PHE:CE2	2.80	0.50
1:W:758:GLU:HA	1:W:761:ARG:HG3	1.94	0.50
1:X:218:ALA:HB2	1:X:260:VAL:HG22	1.92	0.50
1:X:535:ALA:N	1:X:588:PHE:CE2	2.80	0.50
1:Y:328:GLU:HG3	1:Z:394:LYS:HE3	1.94	0.50
1:Z:328:GLU:HG3	1:a:394:LYS:HE3	1.94	0.50
1:Z:783:LYS:HD3	1:a:777:LEU:HD22	1.92	0.50
1:a:56:ARG:HH11	1:b:126:LEU:HB2	1.76	0.50
1:a:669:GLN:HE22	1:b:660:LEU:HD11	1.77	0.50
1:b:56:ARG:HH11	1:c:126:LEU:HB2	1.76	0.50
1:c:278:PRO:HD3	1:d:297:GLY:O	2.12	0.50
1:d:328:GLU:HG3	1:e:394:LYS:HE3	1.94	0.50
1:d:336:ALA:O	1:d:354:GLY:N	2.45	0.50
1:d:783:LYS:HD3	1:e:777:LEU:HD22	1.93	0.50
1:e:230:ARG:HH21	1:e:246:GLY:HA2	1.76	0.50
1:e:580:ARG:HA	1:e:583:VAL:HG22	1.94	0.50
1:f:122:HIS:HB2	1:f:163:ILE:HD11	1.94	0.50
1:h:16:ILE:HD12	1:h:43:VAL:HG13	1.94	0.50
1:h:758:GLU:HA	1:h:761:ARG:HG3	1.94	0.50
1:h:768:MET:HE3	1:i:762:VAL:HG13	1.93	0.50
1:i:122:HIS:HB2	1:i:163:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:170:GLN:HG3	1:i:201:VAL:HG11	1.93	0.50
1:i:760:GLU:O	1:i:764:LYS:HG2	2.12	0.50
1:j:16:ILE:HG13	1:j:29:GLU:OE2	2.11	0.50
1:j:761:ARG:O	1:j:765:VAL:HG22	2.11	0.50
1:k:535:ALA:N	1:k:588:PHE:CE2	2.80	0.50
1:k:779:LEU:HD11	1:l:777:LEU:CD2	2.41	0.50
1:l:758:GLU:HA	1:l:761:ARG:HG3	1.94	0.50
1:m:768:MET:HA	1:m:771:ILE:HG22	1.94	0.50
1:A:230:ARG:HH21	1:A:246:GLY:HA2	1.76	0.50
1:C:760:GLU:O	1:C:764:LYS:HG2	2.12	0.50
1:D:469:GLN:HG3	1:D:562:PHE:CE1	2.47	0.50
1:E:469:GLN:HG3	1:E:562:PHE:CE1	2.47	0.50
1:E:669:GLN:HE22	1:F:660:LEU:HD11	1.77	0.50
1:F:218:ALA:HB2	1:F:260:VAL:HG22	1.92	0.50
1:F:469:GLN:HG3	1:F:562:PHE:CE1	2.47	0.50
1:F:760:GLU:O	1:F:764:LYS:HG2	2.12	0.50
1:F:768:MET:HA	1:F:771:ILE:HG22	1.94	0.50
1:G:580:ARG:HA	1:G:583:VAL:HG22	1.94	0.50
1:H:170:GLN:HG3	1:H:201:VAL:HG11	1.94	0.50
1:H:669:GLN:HE22	1:I:660:LEU:HD11	1.77	0.50
1:J:535:ALA:N	1:J:588:PHE:CE2	2.80	0.50
1:J:669:GLN:HE22	1:K:660:LEU:HD11	1.77	0.50
1:L:328:GLU:HG3	1:M:394:LYS:HE3	1.94	0.50
1:M:336:ALA:O	1:M:354:GLY:N	2.45	0.50
1:M:469:GLN:HG3	1:M:562:PHE:CE1	2.47	0.50
1:M:697:SER:O	1:M:701:LYS:HG3	2.11	0.50
1:M:770:LEU:HB2	1:M:774:ARG:NH1	2.22	0.50
1:N:56:ARG:HH11	1:O:126:LEU:HB2	1.76	0.50
1:O:16:ILE:HD12	1:O:43:VAL:HG13	1.94	0.50
1:O:535:ALA:N	1:O:588:PHE:CE2	2.80	0.50
1:P:669:GLN:HE22	1:Q:660:LEU:HD11	1.77	0.50
1:P:697:SER:O	1:P:701:LYS:HG3	2.11	0.50
1:R:535:ALA:N	1:R:588:PHE:CE2	2.80	0.50
1:S:760:GLU:O	1:S:764:LYS:HG2	2.12	0.50
1:S:783:LYS:HD3	1:T:777:LEU:HD22	1.92	0.50
1:V:760:GLU:O	1:V:764:LYS:HG2	2.12	0.50
1:X:16:ILE:HG13	1:X:29:GLU:OE2	2.11	0.50
1:X:328:GLU:HG3	1:Y:394:LYS:HE3	1.94	0.50
1:Y:122:HIS:HB2	1:Y:163:ILE:HD11	1.94	0.50
1:Y:230:ARG:HH21	1:Y:246:GLY:HA2	1.76	0.50
1:Y:535:ALA:N	1:Y:588:PHE:CE2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:580:ARG:HA	1:Z:583:VAL:HG22	1.94	0.50
1:a:697:SER:O	1:a:701:LYS:HG3	2.11	0.50
1:a:779:LEU:HD11	1:b:777:LEU:CD2	2.41	0.50
1:b:169:LYS:HE3	1:b:172:GLN:HG3	1.94	0.50
1:c:392:ASP:O	1:c:396:GLY:N	2.40	0.50
1:d:16:ILE:HD12	1:d:43:VAL:HG13	1.94	0.50
1:d:669:GLN:HE22	1:e:660:LEU:HD11	1.77	0.50
1:d:697:SER:O	1:d:701:LYS:HG3	2.11	0.50
1:e:768:MET:HA	1:e:771:ILE:HG22	1.94	0.50
1:f:469:GLN:HG3	1:f:562:PHE:CE1	2.47	0.50
1:g:278:PRO:HD3	1:h:297:GLY:O	2.12	0.50
1:g:336:ALA:O	1:g:354:GLY:N	2.45	0.50
1:h:278:PRO:HD3	1:i:297:GLY:O	2.12	0.50
1:j:469:GLN:HG3	1:j:562:PHE:CE1	2.47	0.50
1:j:697:SER:O	1:j:701:LYS:HG3	2.11	0.50
1:k:16:ILE:HD12	1:k:43:VAL:HG13	1.94	0.50
1:k:278:PRO:HD3	1:l:297:GLY:O	2.12	0.50
1:l:218:ALA:HB2	1:l:260:VAL:HG22	1.92	0.50
1:l:770:LEU:HB2	1:l:774:ARG:NH1	2.22	0.50
1:A:669:GLN:HE22	1:B:660:LEU:HD11	1.77	0.49
1:C:278:PRO:HD3	1:D:297:GLY:O	2.12	0.49
1:D:768:MET:HA	1:D:771:ILE:HG22	1.94	0.49
1:E:230:ARG:HH21	1:E:246:GLY:HA2	1.76	0.49
1:E:697:SER:O	1:E:701:LYS:HG3	2.11	0.49
1:F:336:ALA:O	1:F:354:GLY:N	2.45	0.49
1:H:16:ILE:HD12	1:H:43:VAL:HG13	1.94	0.49
1:H:16:ILE:HG13	1:H:29:GLU:OE2	2.11	0.49
1:K:169:LYS:HE3	1:K:172:GLN:HG3	1.94	0.49
1:K:278:PRO:HD3	1:L:297:GLY:O	2.12	0.49
1:L:278:PRO:HD3	1:M:297:GLY:O	2.12	0.49
1:L:768:MET:HA	1:L:771:ILE:HG22	1.94	0.49
1:L:770:LEU:HB2	1:L:774:ARG:NH1	2.22	0.49
1:M:169:LYS:HE3	1:M:172:GLN:HG3	1.94	0.49
1:M:768:MET:HA	1:M:771:ILE:HG22	1.94	0.49
1:O:760:GLU:O	1:O:764:LYS:HG2	2.12	0.49
1:P:469:GLN:HG3	1:P:562:PHE:CE1	2.47	0.49
1:Q:535:ALA:N	1:Q:588:PHE:CE2	2.80	0.49
1:R:779:LEU:HD11	1:S:777:LEU:CD2	2.41	0.49
1:S:761:ARG:O	1:S:765:VAL:HG22	2.12	0.49
1:T:16:ILE:HG13	1:T:29:GLU:OE2	2.11	0.49
1:U:392:ASP:O	1:U:396:GLY:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:278:PRO:HD3	1:X:297:GLY:O	2.12	0.49
1:W:779:LEU:HD11	1:X:777:LEU:CD2	2.41	0.49
1:X:469:GLN:HG3	1:X:562:PHE:CE1	2.47	0.49
1:Y:669:GLN:HE22	1:Z:660:LEU:HD11	1.77	0.49
1:Y:768:MET:HE3	1:Z:762:VAL:HG13	1.93	0.49
1:Z:768:MET:HA	1:Z:771:ILE:HG22	1.94	0.49
1:b:16:ILE:HG13	1:b:29:GLU:OE2	2.11	0.49
1:b:122:HIS:HB2	1:b:163:ILE:HD11	1.94	0.49
1:b:697:SER:O	1:b:701:LYS:HG3	2.11	0.49
1:c:469:GLN:HG3	1:c:562:PHE:CE1	2.47	0.49
1:d:278:PRO:HD3	1:e:297:GLY:O	2.12	0.49
1:d:535:ALA:N	1:d:588:PHE:CE2	2.80	0.49
1:d:758:GLU:HA	1:d:761:ARG:HG3	1.94	0.49
1:d:779:LEU:HD11	1:e:777:LEU:CD2	2.41	0.49
1:e:169:LYS:HE3	1:e:172:GLN:HG3	1.94	0.49
1:f:535:ALA:N	1:f:588:PHE:CE2	2.80	0.49
1:f:697:SER:O	1:f:701:LYS:HG3	2.11	0.49
1:f:758:GLU:HA	1:f:761:ARG:HG3	1.94	0.49
1:g:758:GLU:HA	1:g:761:ARG:HG3	1.94	0.49
1:h:328:GLU:HG3	1:i:394:LYS:HE3	1.94	0.49
1:h:469:GLN:HG3	1:h:562:PHE:CE1	2.47	0.49
1:j:230:ARG:HH21	1:j:246:GLY:HA2	1.76	0.49
1:j:336:ALA:O	1:j:354:GLY:N	2.45	0.49
1:k:469:GLN:HG3	1:k:562:PHE:CE1	2.47	0.49
1:k:761:ARG:O	1:k:765:VAL:HG22	2.11	0.49
1:l:278:PRO:HD3	1:m:297:GLY:O	2.12	0.49
1:l:761:ARG:O	1:l:765:VAL:HG22	2.12	0.49
1:m:760:GLU:O	1:m:764:LYS:HG2	2.12	0.49
1:A:11:PRO:HD2	1:A:14:HIS:HB2	1.95	0.49
1:B:469:GLN:HG3	1:B:562:PHE:CE1	2.47	0.49
1:B:535:ALA:N	1:B:588:PHE:CE2	2.80	0.49
1:B:758:GLU:HA	1:B:761:ARG:HG3	1.94	0.49
1:B:760:GLU:O	1:B:764:LYS:HG2	2.12	0.49
1:C:328:GLU:HG3	1:D:394:LYS:HE3	1.94	0.49
1:D:230:ARG:HH21	1:D:246:GLY:HA2	1.76	0.49
1:G:16:ILE:HG13	1:G:29:GLU:OE2	2.11	0.49
1:I:56:ARG:HH11	1:J:126:LEU:HB2	1.76	0.49
1:I:580:ARG:HA	1:I:583:VAL:HG22	1.94	0.49
1:J:218:ALA:HB2	1:J:260:VAL:HG22	1.92	0.49
1:M:669:GLN:HE22	1:N:660:LEU:HD11	1.77	0.49
1:O:56:ARG:HH11	1:P:126:LEU:HB2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:122:HIS:HB2	1:P:163:ILE:HD11	1.94	0.49
1:P:122:HIS:HB3	1:P:160:VAL:HB	1.95	0.49
1:P:392:ASP:O	1:P:396:GLY:N	2.40	0.49
1:P:761:ARG:O	1:P:765:VAL:HG22	2.11	0.49
1:Q:328:GLU:HG3	1:R:394:LYS:HE3	1.94	0.49
1:Q:469:GLN:HG3	1:Q:562:PHE:CE1	2.47	0.49
1:R:11:PRO:HD2	1:R:14:HIS:HB2	1.95	0.49
1:R:122:HIS:HB2	1:R:163:ILE:HD11	1.94	0.49
1:R:669:GLN:HE22	1:S:660:LEU:HD11	1.77	0.49
1:R:770:LEU:HB2	1:R:774:ARG:NH1	2.22	0.49
1:S:278:PRO:HD3	1:T:297:GLY:O	2.12	0.49
1:S:469:GLN:HG3	1:S:562:PHE:CE1	2.47	0.49
1:T:783:LYS:HD3	1:U:777:LEU:HD22	1.92	0.49
1:U:218:ALA:HB2	1:U:260:VAL:HG22	1.92	0.49
1:U:328:GLU:HG3	1:V:394:LYS:HE3	1.94	0.49
1:V:669:GLN:HE22	1:W:660:LEU:HD11	1.77	0.49
1:Y:779:LEU:HD11	1:Z:777:LEU:CD2	2.41	0.49
1:Z:760:GLU:O	1:Z:764:LYS:HG2	2.12	0.49
1:a:580:ARG:HA	1:a:583:VAL:HG22	1.94	0.49
1:a:758:GLU:HA	1:a:761:ARG:HG3	1.94	0.49
1:c:580:ARG:HA	1:c:583:VAL:HG22	1.94	0.49
1:c:669:GLN:HE22	1:d:660:LEU:HD11	1.77	0.49
1:c:735:ILE:HG21	1:d:727:GLU:HA	1.92	0.49
1:e:16:ILE:HG13	1:e:29:GLU:OE2	2.11	0.49
1:f:392:ASP:O	1:f:396:GLY:N	2.40	0.49
1:f:761:ARG:O	1:f:765:VAL:HG22	2.12	0.49
1:g:56:ARG:HH11	1:h:126:LEU:HB2	1.76	0.49
1:g:169:LYS:HE3	1:g:172:GLN:HG3	1.94	0.49
1:g:760:GLU:O	1:g:764:LYS:HG2	2.12	0.49
1:h:760:GLU:O	1:h:764:LYS:HG2	2.12	0.49
1:h:761:ARG:O	1:h:765:VAL:HG22	2.12	0.49
1:i:580:ARG:HA	1:i:583:VAL:HG22	1.94	0.49
1:i:713:SER:HA	1:j:704:LYS:HZ2	1.78	0.49
1:i:758:GLU:HA	1:i:761:ARG:HG3	1.94	0.49
1:j:122:HIS:HB2	1:j:163:ILE:HD11	1.94	0.49
1:j:170:GLN:HG3	1:j:201:VAL:HG11	1.94	0.49
1:j:760:GLU:O	1:j:764:LYS:HG2	2.12	0.49
1:l:328:GLU:HG3	1:m:394:LYS:HE3	1.94	0.49
1:l:669:GLN:HE22	1:m:660:LEU:HD11	1.77	0.49
1:l:768:MET:HA	1:l:771:ILE:HG22	1.94	0.49
1:A:297:GLY:O	1:m:278:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:ARG:HA	1:A:583:VAL:HG22	1.94	0.49
1:C:169:LYS:HE3	1:C:172:GLN:HG3	1.94	0.49
1:E:11:PRO:HD2	1:E:14:HIS:HB2	1.95	0.49
1:E:278:PRO:HD3	1:F:297:GLY:O	2.12	0.49
1:E:392:ASP:O	1:E:396:GLY:N	2.40	0.49
1:G:122:HIS:HB2	1:G:163:ILE:HD11	1.94	0.49
1:G:336:ALA:O	1:G:354:GLY:N	2.45	0.49
1:H:11:PRO:HD2	1:H:14:HIS:HB2	1.95	0.49
1:H:761:ARG:O	1:H:765:VAL:HG22	2.11	0.49
1:I:122:HIS:HB3	1:I:160:VAL:HB	1.95	0.49
1:K:464:HIS:NE2	1:L:469:GLN:OE1	2.46	0.49
1:K:779:LEU:HD11	1:L:777:LEU:CD2	2.41	0.49
1:L:758:GLU:HA	1:L:761:ARG:HG3	1.94	0.49
1:M:758:GLU:HA	1:M:761:ARG:HG3	1.94	0.49
1:O:768:MET:HA	1:O:771:ILE:HG22	1.94	0.49
1:R:464:HIS:NE2	1:S:469:GLN:OE1	2.46	0.49
1:R:758:GLU:HA	1:R:761:ARG:HG3	1.94	0.49
1:S:697:SER:O	1:S:701:LYS:HG3	2.11	0.49
1:T:328:GLU:HG3	1:U:394:LYS:HE3	1.94	0.49
1:T:580:ARG:HA	1:T:583:VAL:HG22	1.94	0.49
1:U:170:GLN:HG3	1:U:201:VAL:HG11	1.93	0.49
1:V:11:PRO:HD2	1:V:14:HIS:HB2	1.95	0.49
1:V:61:VAL:HG22	1:V:105:LEU:HD12	1.95	0.49
1:V:122:HIS:HB3	1:V:160:VAL:HB	1.95	0.49
1:X:122:HIS:HB3	1:X:160:VAL:HB	1.95	0.49
1:Y:760:GLU:O	1:Y:764:LYS:HG2	2.12	0.49
1:Z:11:PRO:HD2	1:Z:14:HIS:HB2	1.95	0.49
1:Z:169:LYS:HE3	1:Z:172:GLN:HG3	1.94	0.49
1:Z:392:ASP:O	1:Z:396:GLY:N	2.40	0.49
1:a:328:GLU:HG3	1:b:394:LYS:HE3	1.94	0.49
1:a:469:GLN:HG3	1:a:562:PHE:CE1	2.47	0.49
1:b:230:ARG:HH21	1:b:246:GLY:HA2	1.76	0.49
1:b:278:PRO:HD3	1:c:297:GLY:O	2.12	0.49
1:b:669:GLN:HE22	1:c:660:LEU:HD11	1.77	0.49
1:b:779:LEU:HD11	1:c:777:LEU:CD2	2.41	0.49
1:c:230:ARG:HH21	1:c:246:GLY:HA2	1.76	0.49
1:d:761:ARG:O	1:d:765:VAL:HG22	2.12	0.49
1:g:11:PRO:HD2	1:g:14:HIS:HB2	1.95	0.49
1:g:170:GLN:HG3	1:g:201:VAL:HG11	1.94	0.49
1:i:122:HIS:HB3	1:i:160:VAL:HB	1.95	0.49
1:j:770:LEU:HB2	1:j:774:ARG:NH1	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:760:GLU:O	1:I:764:LYS:HG2	2.12	0.49
1:B:61:VAL:HG22	1:B:105:LEU:HD12	1.95	0.49
1:C:16:ILE:HD12	1:C:43:VAL:HG13	1.94	0.49
1:C:669:GLN:HE22	1:D:660:LEU:HD11	1.77	0.49
1:C:779:LEU:HD11	1:D:777:LEU:CD2	2.41	0.49
1:D:122:HIS:HB3	1:D:160:VAL:HB	1.95	0.49
1:D:464:HIS:NE2	1:E:469:GLN:OE1	2.46	0.49
1:D:669:GLN:HE22	1:E:660:LEU:HD11	1.77	0.49
1:E:535:ALA:N	1:E:588:PHE:CE2	2.80	0.49
1:F:122:HIS:HB2	1:F:163:ILE:HD11	1.94	0.49
1:F:278:PRO:HD3	1:G:297:GLY:O	2.12	0.49
1:G:16:ILE:HD12	1:G:43:VAL:HG13	1.94	0.49
1:G:464:HIS:NE2	1:H:469:GLN:OE1	2.46	0.49
1:G:758:GLU:HA	1:G:761:ARG:HG3	1.94	0.49
1:G:768:MET:HA	1:G:771:ILE:HG22	1.94	0.49
1:H:328:GLU:HG3	1:I:394:LYS:HE3	1.94	0.49
1:H:464:HIS:NE2	1:I:469:GLN:OE1	2.46	0.49
1:H:469:GLN:HG3	1:H:562:PHE:CE1	2.47	0.49
1:I:11:PRO:HD2	1:I:14:HIS:HB2	1.94	0.49
1:I:170:GLN:HG3	1:I:201:VAL:HG11	1.93	0.49
1:K:669:GLN:HE22	1:L:660:LEU:HD11	1.77	0.49
1:L:469:GLN:HG3	1:L:562:PHE:CE1	2.47	0.49
1:L:535:ALA:N	1:L:588:PHE:CE2	2.80	0.49
1:O:685:ARG:HE	1:O:689:GLU:CD	2.21	0.49
1:Q:278:PRO:HD3	1:R:297:GLY:O	2.12	0.49
1:Q:580:ARG:HA	1:Q:583:VAL:HG22	1.94	0.49
1:Q:669:GLN:HE22	1:R:660:LEU:HD11	1.77	0.49
1:R:56:ARG:HH11	1:S:126:LEU:HB2	1.76	0.49
1:R:278:PRO:HD3	1:S:297:GLY:O	2.12	0.49
1:R:768:MET:HE3	1:S:762:VAL:HG13	1.93	0.49
1:S:669:GLN:HE22	1:T:660:LEU:HD11	1.77	0.49
1:T:56:ARG:HH11	1:U:126:LEU:HB2	1.76	0.49
1:T:464:HIS:NE2	1:U:469:GLN:OE1	2.46	0.49
1:T:535:ALA:N	1:T:588:PHE:CE2	2.80	0.49
1:T:758:GLU:HA	1:T:761:ARG:HG3	1.94	0.49
1:U:336:ALA:O	1:U:354:GLY:N	2.45	0.49
1:U:464:HIS:NE2	1:V:469:GLN:OE1	2.46	0.49
1:V:122:HIS:HB2	1:V:163:ILE:HD11	1.94	0.49
1:V:464:HIS:NE2	1:W:469:GLN:OE1	2.46	0.49
1:V:779:LEU:HD22	1:W:774:ARG:HH21	1.73	0.49
1:W:760:GLU:O	1:W:764:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:11:PRO:HD2	1:Y:14:HIS:HB2	1.95	0.49
1:a:336:ALA:O	1:a:354:GLY:N	2.45	0.49
1:b:469:GLN:HG3	1:b:562:PHE:CE1	2.47	0.49
1:d:16:ILE:HG13	1:d:29:GLU:OE2	2.11	0.49
1:e:122:HIS:HB3	1:e:160:VAL:HB	1.95	0.49
1:f:170:GLN:HG3	1:f:201:VAL:HG11	1.93	0.49
1:g:469:GLN:HG3	1:g:562:PHE:CE1	2.47	0.49
1:g:580:ARG:HA	1:g:583:VAL:HG22	1.94	0.49
1:h:169:LYS:HE3	1:h:172:GLN:HG3	1.94	0.49
1:i:328:GLU:HG3	1:j:394:LYS:HE3	1.94	0.49
1:j:580:ARG:HA	1:j:583:VAL:HG22	1.94	0.49
1:k:464:HIS:NE2	1:l:469:GLN:OE1	2.46	0.49
1:l:122:HIS:HB3	1:l:160:VAL:HB	1.95	0.49
1:l:336:ALA:O	1:l:354:GLY:N	2.45	0.49
1:A:230:ARG:HG3	1:A:266:GLU:HB3	1.95	0.49
1:A:777:LEU:CD2	1:m:779:LEU:HD11	2.41	0.49
1:B:11:PRO:HD2	1:B:14:HIS:HB2	1.95	0.49
1:B:669:GLN:HE22	1:C:660:LEU:HD11	1.77	0.49
1:C:535:ALA:N	1:C:588:PHE:CE2	2.80	0.49
1:D:122:HIS:HB2	1:D:163:ILE:HD11	1.94	0.49
1:E:16:ILE:HD12	1:E:43:VAL:HG13	1.94	0.49
1:E:170:GLN:HG3	1:E:201:VAL:HG11	1.93	0.49
1:E:464:HIS:NE2	1:F:469:GLN:OE1	2.46	0.49
1:F:328:GLU:HG3	1:G:394:LYS:HE3	1.94	0.49
1:G:278:PRO:HD3	1:H:297:GLY:O	2.12	0.49
1:H:591:PHE:HD1	1:H:598:ILE:HD11	1.78	0.49
1:H:697:SER:O	1:H:701:LYS:HG3	2.11	0.49
1:J:469:GLN:HG3	1:J:562:PHE:CE1	2.47	0.49
1:K:16:ILE:HG13	1:K:29:GLU:OE2	2.11	0.49
1:M:16:ILE:HD12	1:M:43:VAL:HG13	1.94	0.49
1:M:464:HIS:NE2	1:N:469:GLN:OE1	2.46	0.49
1:O:469:GLN:HG3	1:O:562:PHE:CE1	2.47	0.49
1:P:16:ILE:HD12	1:P:43:VAL:HG13	1.94	0.49
1:Q:122:HIS:HB3	1:Q:160:VAL:HB	1.95	0.49
1:Q:169:LYS:HE3	1:Q:172:GLN:HG3	1.94	0.49
1:S:61:VAL:HG22	1:S:105:LEU:HD12	1.95	0.49
1:S:464:HIS:NE2	1:T:469:GLN:OE1	2.46	0.49
1:U:469:GLN:HG3	1:U:562:PHE:CE1	2.47	0.49
1:U:669:GLN:HE22	1:V:660:LEU:HD11	1.77	0.49
1:V:758:GLU:HA	1:V:761:ARG:HG3	1.94	0.49
1:W:464:HIS:NE2	1:X:469:GLN:OE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:669:GLN:HE22	1:X:660:LEU:HD11	1.77	0.49
1:X:16:ILE:HD12	1:X:43:VAL:HG13	1.94	0.49
1:Y:16:ILE:HD12	1:Y:43:VAL:HG13	1.94	0.49
1:Z:761:ARG:O	1:Z:765:VAL:HG22	2.12	0.49
1:a:535:ALA:N	1:a:588:PHE:CE2	2.80	0.49
1:d:122:HIS:HB2	1:d:163:ILE:HD11	1.94	0.49
1:d:464:HIS:NE2	1:e:469:GLN:OE1	2.46	0.49
1:e:11:PRO:HD2	1:e:14:HIS:HB2	1.95	0.49
1:e:61:VAL:HG22	1:e:105:LEU:HD12	1.95	0.49
1:e:669:GLN:HE22	1:f:660:LEU:HD11	1.77	0.49
1:f:61:VAL:HG22	1:f:105:LEU:HD12	1.95	0.49
1:g:535:ALA:N	1:g:588:PHE:CE2	2.80	0.49
1:h:122:HIS:HB2	1:h:163:ILE:HD11	1.94	0.49
1:h:768:MET:HA	1:h:771:ILE:HG22	1.94	0.49
1:i:11:PRO:HD2	1:i:14:HIS:HB2	1.95	0.49
1:i:230:ARG:HH21	1:i:246:GLY:HA2	1.76	0.49
1:i:535:ALA:N	1:i:588:PHE:CE2	2.80	0.49
1:i:591:PHE:HD1	1:i:598:ILE:HD11	1.78	0.49
1:i:759:LEU:HA	1:i:762:VAL:HG12	1.95	0.49
1:k:169:LYS:HE3	1:k:172:GLN:HG3	1.94	0.49
1:k:336:ALA:O	1:k:354:GLY:N	2.45	0.49
1:l:16:ILE:HD12	1:l:43:VAL:HG13	1.94	0.49
1:m:230:ARG:HH21	1:m:246:GLY:HA2	1.76	0.49
1:m:758:GLU:HA	1:m:761:ARG:NE	2.28	0.49
1:A:122:HIS:HB2	1:A:163:ILE:HD11	1.94	0.49
1:A:591:PHE:HD1	1:A:598:ILE:HD11	1.78	0.49
1:A:758:GLU:HA	1:A:761:ARG:NE	2.28	0.49
1:B:278:PRO:HD3	1:C:297:GLY:O	2.12	0.49
1:B:794:LYS:HA	1:B:797:GLU:HG3	1.95	0.49
1:C:768:MET:HA	1:C:771:ILE:HG22	1.94	0.49
1:D:278:PRO:HD3	1:E:297:GLY:O	2.12	0.49
1:D:535:ALA:N	1:D:588:PHE:CE2	2.80	0.49
1:E:230:ARG:HG3	1:E:266:GLU:HB3	1.95	0.49
1:F:758:GLU:HA	1:F:761:ARG:HG3	1.94	0.49
1:G:469:GLN:HG3	1:G:562:PHE:CE1	2.47	0.49
1:G:535:ALA:N	1:G:588:PHE:CE2	2.80	0.49
1:H:760:GLU:O	1:H:764:LYS:HG2	2.12	0.49
1:I:768:MET:HA	1:I:771:ILE:HG22	1.94	0.49
1:J:336:ALA:O	1:J:354:GLY:N	2.45	0.49
1:J:464:HIS:NE2	1:K:469:GLN:OE1	2.46	0.49
1:J:580:ARG:HA	1:J:583:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:61:VAL:HG22	1:K:105:LEU:HD12	1.95	0.49
1:M:122:HIS:HB3	1:M:160:VAL:HB	1.95	0.49
1:M:591:PHE:HD1	1:M:598:ILE:HD11	1.78	0.49
1:N:328:GLU:HG3	1:O:394:LYS:HE3	1.94	0.49
1:N:685:ARG:HE	1:N:689:GLU:CD	2.21	0.49
1:N:758:GLU:HA	1:N:761:ARG:HG3	1.94	0.49
1:P:759:LEU:HA	1:P:762:VAL:HG12	1.95	0.49
1:Q:170:GLN:HG3	1:Q:201:VAL:HG11	1.94	0.49
1:Q:336:ALA:O	1:Q:354:GLY:N	2.45	0.49
1:R:768:MET:HA	1:R:771:ILE:HG22	1.94	0.49
1:S:506:LYS:HZ3	1:S:523:PHE:HB3	1.77	0.49
1:T:16:ILE:HD12	1:T:43:VAL:HG13	1.94	0.49
1:U:230:ARG:HH21	1:U:246:GLY:HA2	1.76	0.49
1:V:336:ALA:O	1:V:354:GLY:N	2.45	0.49
1:W:56:ARG:HH11	1:X:126:LEU:HB2	1.76	0.49
1:X:759:LEU:HA	1:X:762:VAL:HG12	1.95	0.49
1:Y:169:LYS:HE3	1:Y:172:GLN:HG3	1.94	0.49
1:Y:230:ARG:HG3	1:Y:266:GLU:HB3	1.95	0.49
1:Y:278:PRO:HD3	1:Z:297:GLY:O	2.12	0.49
1:Y:759:LEU:HA	1:Y:762:VAL:HG12	1.95	0.49
1:Z:278:PRO:HD3	1:a:297:GLY:O	2.12	0.49
1:Z:469:GLN:HG3	1:Z:562:PHE:CE1	2.47	0.49
1:a:759:LEU:HA	1:a:762:VAL:HG12	1.95	0.49
1:a:768:MET:HA	1:a:771:ILE:HG22	1.94	0.49
1:b:758:GLU:HA	1:b:761:ARG:NE	2.28	0.49
1:b:768:MET:HE3	1:c:762:VAL:HG13	1.93	0.49
1:c:779:LEU:HD11	1:d:777:LEU:CD2	2.41	0.49
1:d:122:HIS:HB3	1:d:160:VAL:HB	1.95	0.49
1:d:469:GLN:HG3	1:d:562:PHE:CE1	2.47	0.49
1:e:759:LEU:HA	1:e:762:VAL:HG12	1.95	0.49
1:g:464:HIS:NE2	1:h:469:GLN:OE1	2.46	0.49
1:i:669:GLN:HE22	1:j:660:LEU:HD11	1.77	0.49
1:j:392:ASP:O	1:j:396:GLY:N	2.40	0.49
1:j:669:GLN:HE22	1:k:660:LEU:HD11	1.77	0.49
1:j:779:LEU:HD11	1:k:777:LEU:CD2	2.41	0.49
1:k:122:HIS:HB2	1:k:163:ILE:HD11	1.94	0.49
1:k:170:GLN:HG3	1:k:201:VAL:HG11	1.94	0.49
1:k:328:GLU:HG3	1:l:394:LYS:HE3	1.94	0.49
1:k:665:THR:OG1	1:l:589:ASP:OD2	2.19	0.49
1:l:464:HIS:NE2	1:m:469:GLN:OE1	2.46	0.49
1:m:535:ALA:N	1:m:588:PHE:CE2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:PRO:HD3	1:B:297:GLY:O	2.12	0.49
1:A:394:LYS:HE3	1:m:328:GLU:HG3	1.94	0.49
1:A:535:ALA:N	1:A:588:PHE:CE2	2.80	0.49
1:B:56:ARG:HH11	1:C:126:LEU:HB2	1.76	0.49
1:B:169:LYS:HE3	1:B:172:GLN:HG3	1.94	0.49
1:B:230:ARG:HG3	1:B:266:GLU:HB3	1.95	0.49
1:B:328:GLU:HG3	1:C:394:LYS:HE3	1.94	0.49
1:B:761:ARG:O	1:B:765:VAL:HG22	2.11	0.49
1:C:761:ARG:O	1:C:765:VAL:HG22	2.11	0.49
1:E:61:VAL:HG22	1:E:105:LEU:HD12	1.95	0.49
1:E:760:GLU:O	1:E:764:LYS:HG2	2.12	0.49
1:G:758:GLU:HA	1:G:761:ARG:NE	2.28	0.49
1:J:122:HIS:HB3	1:J:160:VAL:HB	1.95	0.49
1:K:122:HIS:HB2	1:K:163:ILE:HD11	1.94	0.49
1:K:758:GLU:HA	1:K:761:ARG:HG3	1.94	0.49
1:M:230:ARG:HG3	1:M:266:GLU:HB3	1.95	0.49
1:M:713:SER:HA	1:N:704:LYS:HZ2	1.78	0.49
1:M:758:GLU:HA	1:M:761:ARG:NE	2.28	0.49
1:M:794:LYS:HA	1:M:797:GLU:HG3	1.95	0.49
1:N:464:HIS:NE2	1:O:469:GLN:OE1	2.46	0.49
1:N:760:GLU:O	1:N:764:LYS:HG2	2.12	0.49
1:O:170:GLN:HG3	1:O:201:VAL:HG11	1.94	0.49
1:P:336:ALA:HB2	1:P:357:TRP:HZ3	1.78	0.49
1:P:685:ARG:HE	1:P:689:GLU:CD	2.21	0.49
1:Q:230:ARG:HG3	1:Q:266:GLU:HB3	1.95	0.49
1:Q:464:HIS:NE2	1:R:469:GLN:OE1	2.46	0.49
1:Q:685:ARG:HE	1:Q:689:GLU:CD	2.21	0.49
1:Q:794:LYS:HA	1:Q:797:GLU:HG3	1.95	0.49
1:R:16:ILE:HD12	1:R:43:VAL:HG13	1.94	0.49
1:R:61:VAL:HG22	1:R:105:LEU:HD12	1.95	0.49
1:S:11:PRO:HD2	1:S:14:HIS:HB2	1.95	0.49
1:S:170:GLN:HG3	1:S:201:VAL:HG11	1.93	0.49
1:T:759:LEU:HA	1:T:762:VAL:HG12	1.95	0.49
1:U:56:ARG:HH11	1:V:126:LEU:HB2	1.76	0.49
1:U:230:ARG:HG3	1:U:266:GLU:HB3	1.95	0.49
1:U:278:PRO:HD3	1:V:297:GLY:O	2.12	0.49
1:U:685:ARG:HE	1:U:689:GLU:CD	2.21	0.49
1:V:770:LEU:HB2	1:V:774:ARG:NH1	2.22	0.49
1:W:469:GLN:HG3	1:W:562:PHE:CE1	2.47	0.49
1:W:759:LEU:HA	1:W:762:VAL:HG12	1.95	0.49
1:X:758:GLU:HA	1:X:761:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:469:GLN:HG3	1:Y:562:PHE:CE1	2.47	0.49
1:Y:591:PHE:HD1	1:Y:598:ILE:HD11	1.78	0.49
1:Z:16:ILE:HD12	1:Z:43:VAL:HG13	1.94	0.49
1:Z:336:ALA:O	1:Z:354:GLY:N	2.45	0.49
1:Z:758:GLU:HA	1:Z:761:ARG:HG3	1.94	0.49
1:a:16:ILE:HG13	1:a:29:GLU:OE2	2.11	0.49
1:b:685:ARG:HE	1:b:689:GLU:CD	2.21	0.49
1:b:759:LEU:HA	1:b:762:VAL:HG12	1.95	0.49
1:b:760:GLU:O	1:b:764:LYS:HG2	2.12	0.49
1:c:758:GLU:HA	1:c:761:ARG:HG3	1.94	0.49
1:c:794:LYS:HA	1:c:797:GLU:HG3	1.95	0.49
1:d:61:VAL:HG22	1:d:105:LEU:HD12	1.95	0.49
1:e:535:ALA:N	1:e:588:PHE:CE2	2.80	0.49
1:f:169:LYS:HE3	1:f:172:GLN:HG3	1.94	0.49
1:f:534:HIS:CG	1:f:534:HIS:O	2.66	0.49
1:f:669:GLN:HE22	1:g:660:LEU:HD11	1.77	0.49
1:g:61:VAL:HG22	1:g:105:LEU:HD12	1.95	0.49
1:g:122:HIS:HB2	1:g:163:ILE:HD11	1.94	0.49
1:g:328:GLU:HG3	1:h:394:LYS:HE3	1.94	0.49
1:h:230:ARG:HH21	1:h:246:GLY:HA2	1.76	0.49
1:h:580:ARG:HA	1:h:583:VAL:HG22	1.94	0.49
1:j:464:HIS:NE2	1:k:469:GLN:OE1	2.46	0.49
1:j:591:PHE:HD1	1:j:598:ILE:HD11	1.78	0.49
1:j:794:LYS:HA	1:j:797:GLU:HG3	1.95	0.49
1:k:61:VAL:HG22	1:k:105:LEU:HD12	1.95	0.49
1:k:758:GLU:HA	1:k:761:ARG:NE	2.28	0.49
1:k:768:MET:HA	1:k:771:ILE:HG22	1.94	0.49
1:l:580:ARG:HA	1:l:583:VAL:HG22	1.94	0.49
1:m:11:PRO:HD2	1:m:14:HIS:HB2	1.95	0.49
1:m:230:ARG:HG3	1:m:266:GLU:HB3	1.95	0.49
1:A:464:HIS:NE2	1:B:469:GLN:OE1	2.46	0.49
1:B:336:ALA:HB2	1:B:357:TRP:HZ3	1.78	0.49
1:C:61:VAL:HG22	1:C:105:LEU:HD12	1.95	0.49
1:C:464:HIS:NE2	1:D:469:GLN:OE1	2.46	0.49
1:C:469:GLN:HG3	1:C:562:PHE:CE1	2.47	0.49
1:C:770:LEU:HB2	1:C:774:ARG:NH1	2.22	0.49
1:D:56:ARG:HH11	1:E:126:LEU:HB2	1.76	0.49
1:D:336:ALA:HB2	1:D:357:TRP:HZ3	1.78	0.49
1:D:758:GLU:HA	1:D:761:ARG:HG3	1.94	0.49
1:D:758:GLU:HA	1:D:761:ARG:NE	2.28	0.49
1:E:685:ARG:HE	1:E:689:GLU:CD	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:122:HIS:HB3	1:F:160:VAL:HB	1.95	0.49
1:F:759:LEU:HA	1:F:762:VAL:HG12	1.95	0.49
1:G:543:TYR:HE1	1:G:572:CYS:HA	1.78	0.49
1:G:759:LEU:HA	1:G:762:VAL:HG12	1.95	0.49
1:H:122:HIS:HB3	1:H:160:VAL:HB	1.95	0.49
1:H:758:GLU:HA	1:H:761:ARG:HG3	1.94	0.49
1:I:230:ARG:HG3	1:I:266:GLU:HB3	1.95	0.49
1:J:523:PHE:HB2	1:J:543:TYR:HB2	1.95	0.49
1:J:758:GLU:HA	1:J:761:ARG:NE	2.28	0.49
1:J:768:MET:HA	1:J:771:ILE:HG22	1.94	0.49
1:K:535:ALA:N	1:K:588:PHE:CE2	2.80	0.49
1:K:591:PHE:HD1	1:K:598:ILE:HD11	1.78	0.49
1:L:122:HIS:HB3	1:L:160:VAL:HB	1.94	0.49
1:L:760:GLU:O	1:L:764:LYS:HG2	2.12	0.49
1:M:11:PRO:HD2	1:M:14:HIS:HB2	1.95	0.49
1:M:685:ARG:HE	1:M:689:GLU:CD	2.21	0.49
1:N:122:HIS:HB2	1:N:163:ILE:HD11	1.94	0.49
1:N:278:PRO:HD3	1:O:297:GLY:O	2.12	0.49
1:N:336:ALA:HB2	1:N:357:TRP:HZ3	1.78	0.49
1:O:122:HIS:HB3	1:O:160:VAL:HB	1.95	0.49
1:O:523:PHE:HB2	1:O:543:TYR:HB2	1.95	0.49
1:P:169:LYS:HE3	1:P:172:GLN:HG3	1.94	0.49
1:P:523:PHE:HB2	1:P:543:TYR:HB2	1.95	0.49
1:P:535:ALA:N	1:P:588:PHE:CE2	2.80	0.49
1:P:580:ARG:HA	1:P:583:VAL:HG22	1.94	0.49
1:R:169:LYS:HE3	1:R:172:GLN:HG3	1.94	0.49
1:S:169:LYS:HE3	1:S:172:GLN:HG3	1.94	0.49
1:S:758:GLU:HA	1:S:761:ARG:HG3	1.94	0.49
1:T:469:GLN:HG3	1:T:562:PHE:CE1	2.47	0.49
1:T:760:GLU:O	1:T:764:LYS:HG2	2.12	0.49
1:U:534:HIS:O	1:U:534:HIS:CG	2.66	0.49
1:V:761:ARG:O	1:V:765:VAL:HG22	2.12	0.49
1:W:16:ILE:HD12	1:W:43:VAL:HG13	1.94	0.49
1:W:535:ALA:N	1:W:588:PHE:CE2	2.80	0.49
1:X:591:PHE:HD1	1:X:598:ILE:HD11	1.78	0.49
1:X:794:LYS:HA	1:X:797:GLU:HG3	1.95	0.49
1:Y:685:ARG:HE	1:Y:689:GLU:CD	2.21	0.49
1:Z:685:ARG:HE	1:Z:689:GLU:CD	2.21	0.49
1:Z:759:LEU:HA	1:Z:762:VAL:HG12	1.95	0.49
1:b:535:ALA:N	1:b:588:PHE:CE2	2.80	0.49
1:d:170:GLN:HG3	1:d:201:VAL:HG11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:580:ARG:HA	1:d:583:VAL:HG22	1.94	0.49
1:d:758:GLU:HA	1:d:761:ARG:NE	2.28	0.49
1:d:768:MET:HA	1:d:771:ILE:HG22	1.94	0.49
1:e:16:ILE:HD12	1:e:43:VAL:HG13	1.94	0.49
1:f:122:HIS:HB3	1:f:160:VAL:HB	1.95	0.49
1:f:328:GLU:HG3	1:g:394:LYS:HE3	1.94	0.49
1:f:794:LYS:HA	1:f:797:GLU:HG3	1.95	0.49
1:g:16:ILE:HD12	1:g:43:VAL:HG13	1.94	0.49
1:g:758:GLU:HA	1:g:761:ARG:NE	2.28	0.49
1:h:338:GLN:OE1	1:h:370:LYS:HG2	2.13	0.49
1:h:759:LEU:HA	1:h:762:VAL:HG12	1.95	0.49
1:i:278:PRO:HD3	1:j:297:GLY:O	2.12	0.49
1:i:758:GLU:HA	1:i:761:ARG:NE	2.28	0.49
1:j:535:ALA:N	1:j:588:PHE:CE2	2.80	0.49
1:l:737:GLY:O	1:l:740:SER:OG	2.28	0.49
1:m:523:PHE:HB2	1:m:543:TYR:HB2	1.95	0.49
1:A:469:GLN:HG3	1:A:562:PHE:CE1	2.47	0.49
1:A:534:HIS:CG	1:A:534:HIS:O	2.66	0.49
1:C:523:PHE:HB2	1:C:543:TYR:HB2	1.95	0.49
1:D:338:GLN:OE1	1:D:370:LYS:HG2	2.13	0.49
1:E:591:PHE:HD1	1:E:598:ILE:HD11	1.78	0.49
1:E:779:LEU:HD22	1:F:774:ARG:HH21	1.73	0.49
1:F:580:ARG:HA	1:F:583:VAL:HG22	1.94	0.49
1:F:669:GLN:HE22	1:G:660:LEU:HD11	1.77	0.49
1:G:61:VAL:HG22	1:G:105:LEU:HD12	1.95	0.49
1:G:523:PHE:HB2	1:G:543:TYR:HB2	1.95	0.49
1:G:669:GLN:HE22	1:H:660:LEU:HD11	1.77	0.49
1:H:230:ARG:HG3	1:H:266:GLU:HB3	1.95	0.49
1:H:758:GLU:HA	1:H:761:ARG:NE	2.28	0.49
1:I:169:LYS:HE3	1:I:172:GLN:HG3	1.94	0.49
1:I:278:PRO:HD3	1:J:297:GLY:O	2.12	0.49
1:I:392:ASP:O	1:I:396:GLY:N	2.40	0.49
1:I:469:GLN:HG3	1:I:562:PHE:CE1	2.47	0.49
1:J:170:GLN:HG3	1:J:201:VAL:HG11	1.93	0.49
1:K:469:GLN:HG3	1:K:562:PHE:CE1	2.47	0.49
1:K:759:LEU:HA	1:K:762:VAL:HG12	1.95	0.49
1:K:760:GLU:O	1:K:764:LYS:HG2	2.12	0.49
1:M:336:ALA:HB2	1:M:357:TRP:HZ3	1.78	0.49
1:N:338:GLN:OE1	1:N:370:LYS:HG2	2.13	0.49
1:N:523:PHE:HB2	1:N:543:TYR:HB2	1.95	0.49
1:N:591:PHE:HD1	1:N:598:ILE:HD11	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:534:HIS:O	1:O:534:HIS:CG	2.66	0.49
1:O:591:PHE:HD1	1:O:598:ILE:HD11	1.78	0.49
1:P:336:ALA:O	1:P:354:GLY:N	2.45	0.49
1:Q:768:MET:HA	1:Q:771:ILE:HG22	1.94	0.49
1:R:336:ALA:HB2	1:R:357:TRP:HZ3	1.78	0.49
1:R:338:GLN:OE1	1:R:370:LYS:HG2	2.13	0.49
1:R:591:PHE:HD1	1:R:598:ILE:HD11	1.78	0.49
1:R:794:LYS:HA	1:R:797:GLU:HG3	1.95	0.49
1:S:535:ALA:N	1:S:588:PHE:CE2	2.80	0.49
1:T:278:PRO:HD3	1:U:297:GLY:O	2.12	0.49
1:T:768:MET:HA	1:T:771:ILE:HG22	1.94	0.49
1:V:469:GLN:HG3	1:V:562:PHE:CE1	2.47	0.49
1:V:768:MET:HA	1:V:771:ILE:HG22	1.94	0.49
1:X:338:GLN:OE1	1:X:370:LYS:HG2	2.13	0.49
1:X:464:HIS:NE2	1:Y:469:GLN:OE1	2.46	0.49
1:X:669:GLN:HE22	1:Y:660:LEU:HD11	1.77	0.49
1:Y:61:VAL:HG22	1:Y:105:LEU:HD12	1.95	0.49
1:Y:170:GLN:HG3	1:Y:201:VAL:HG11	1.94	0.49
1:Y:794:LYS:HA	1:Y:797:GLU:HG3	1.95	0.49
1:Z:338:GLN:OE1	1:Z:370:LYS:HG2	2.13	0.49
1:Z:534:HIS:O	1:Z:534:HIS:CG	2.66	0.49
1:Z:535:ALA:N	1:Z:588:PHE:CE2	2.80	0.49
1:a:464:HIS:NE2	1:b:469:GLN:OE1	2.46	0.49
1:a:685:ARG:HE	1:a:689:GLU:CD	2.21	0.49
1:a:760:GLU:O	1:a:764:LYS:HG2	2.12	0.49
1:c:16:ILE:HD12	1:c:43:VAL:HG13	1.94	0.49
1:c:61:VAL:HG22	1:c:105:LEU:HD12	1.95	0.49
1:c:230:ARG:HG3	1:c:266:GLU:HB3	1.95	0.49
1:c:534:HIS:O	1:c:534:HIS:CG	2.66	0.49
1:c:760:GLU:O	1:c:764:LYS:HG2	2.12	0.49
1:d:11:PRO:HD2	1:d:14:HIS:HB2	1.95	0.49
1:d:230:ARG:HH21	1:d:246:GLY:HA2	1.76	0.49
1:d:336:ALA:HB2	1:d:357:TRP:HZ3	1.78	0.49
1:d:523:PHE:HB2	1:d:543:TYR:HB2	1.95	0.49
1:e:278:PRO:HD3	1:f:297:GLY:O	2.12	0.49
1:e:338:GLN:OE1	1:e:370:LYS:HG2	2.13	0.49
1:f:230:ARG:HH21	1:f:246:GLY:HA2	1.76	0.49
1:h:61:VAL:HG22	1:h:105:LEU:HD12	1.95	0.49
1:h:464:HIS:NE2	1:i:469:GLN:OE1	2.46	0.49
1:i:169:LYS:HE3	1:i:172:GLN:HG3	1.94	0.49
1:i:523:PHE:HB2	1:i:543:TYR:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:543:TYR:HE1	1:i:572:CYS:HA	1.78	0.49
1:j:16:ILE:HD12	1:j:43:VAL:HG13	1.94	0.49
1:k:580:ARG:HA	1:k:583:VAL:HG22	1.94	0.49
1:l:61:VAL:HG22	1:l:105:LEU:HD12	1.95	0.49
1:m:591:PHE:HD1	1:m:598:ILE:HD11	1.78	0.49
1:B:122:HIS:HB3	1:B:160:VAL:HB	1.95	0.49
1:B:464:HIS:NE2	1:C:469:GLN:OE1	2.46	0.49
1:C:719:THR:O	1:C:723:LYS:HB3	2.13	0.49
1:C:758:GLU:HA	1:C:761:ARG:NE	2.28	0.49
1:E:336:ALA:O	1:E:354:GLY:N	2.45	0.49
1:E:338:GLN:OE1	1:E:370:LYS:HG2	2.13	0.49
1:E:534:HIS:O	1:E:534:HIS:CG	2.66	0.49
1:E:758:GLU:HA	1:E:761:ARG:HG3	1.94	0.49
1:E:759:LEU:HA	1:E:762:VAL:HG12	1.95	0.49
1:F:61:VAL:HG22	1:F:105:LEU:HD12	1.95	0.49
1:F:169:LYS:HE3	1:F:172:GLN:HG3	1.94	0.49
1:F:338:GLN:OE1	1:F:370:LYS:HG2	2.13	0.49
1:F:464:HIS:NE2	1:G:469:GLN:OE1	2.46	0.49
1:F:719:THR:O	1:F:723:LYS:HB3	2.13	0.49
1:G:719:THR:O	1:G:723:LYS:HB3	2.13	0.49
1:H:336:ALA:HB2	1:H:357:TRP:HZ3	1.78	0.49
1:I:16:ILE:HD12	1:I:43:VAL:HG13	1.94	0.49
1:I:669:GLN:HE22	1:J:660:LEU:HD11	1.77	0.49
1:K:16:ILE:HD12	1:K:43:VAL:HG13	1.94	0.49
1:K:230:ARG:HH21	1:K:246:GLY:HA2	1.76	0.49
1:K:336:ALA:O	1:K:354:GLY:N	2.45	0.49
1:K:523:PHE:HB2	1:K:543:TYR:HB2	1.95	0.49
1:K:713:SER:HA	1:L:704:LYS:HZ2	1.77	0.49
1:L:61:VAL:HG22	1:L:105:LEU:HD12	1.95	0.49
1:L:669:GLN:HE22	1:M:660:LEU:HD11	1.77	0.49
1:L:685:ARG:HE	1:L:689:GLU:CD	2.21	0.49
1:M:170:GLN:HG3	1:M:201:VAL:HG11	1.94	0.49
1:M:278:PRO:HD3	1:N:297:GLY:O	2.12	0.49
1:M:759:LEU:HA	1:M:762:VAL:HG12	1.95	0.49
1:M:761:ARG:O	1:M:765:VAL:HG22	2.12	0.49
1:N:61:VAL:HG22	1:N:105:LEU:HD12	1.95	0.49
1:N:230:ARG:HH21	1:N:246:GLY:HA2	1.76	0.49
1:O:11:PRO:HD2	1:O:14:HIS:HB2	1.95	0.49
1:O:230:ARG:HG3	1:O:266:GLU:HB3	1.95	0.49
1:P:591:PHE:HD1	1:P:598:ILE:HD11	1.78	0.49
1:P:758:GLU:HA	1:P:761:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:336:ALA:HB2	1:Q:357:TRP:HZ3	1.78	0.49
1:R:170:GLN:HG3	1:R:201:VAL:HG11	1.93	0.49
1:S:328:GLU:HG3	1:T:394:LYS:HE3	1.94	0.49
1:T:122:HIS:HB3	1:T:160:VAL:HB	1.95	0.49
1:T:534:HIS:O	1:T:534:HIS:CG	2.66	0.49
1:T:591:PHE:HD1	1:T:598:ILE:HD11	1.78	0.49
1:U:16:ILE:HD12	1:U:43:VAL:HG13	1.94	0.49
1:U:760:GLU:O	1:U:764:LYS:HG2	2.12	0.49
1:V:338:GLN:OE1	1:V:370:LYS:HG2	2.13	0.49
1:W:336:ALA:HB2	1:W:357:TRP:HZ3	1.78	0.49
1:W:338:GLN:OE1	1:W:370:LYS:HG2	2.13	0.49
1:W:543:TYR:HE1	1:W:572:CYS:HA	1.78	0.49
1:W:719:THR:O	1:W:723:LYS:HB3	2.13	0.49
1:W:768:MET:HA	1:W:771:ILE:HG22	1.94	0.49
1:X:170:GLN:HG3	1:X:201:VAL:HG11	1.93	0.49
1:X:758:GLU:HA	1:X:761:ARG:NE	2.28	0.49
1:Y:122:HIS:HB3	1:Y:160:VAL:HB	1.95	0.49
1:Y:338:GLN:OE1	1:Y:370:LYS:HG2	2.13	0.49
1:Z:122:HIS:HB3	1:Z:160:VAL:HB	1.95	0.49
1:a:16:ILE:HD12	1:a:43:VAL:HG13	1.94	0.49
1:c:464:HIS:NE2	1:d:469:GLN:OE1	2.46	0.49
1:e:758:GLU:HA	1:e:761:ARG:NE	2.28	0.49
1:f:464:HIS:NE2	1:g:469:GLN:OE1	2.46	0.49
1:f:760:GLU:O	1:f:764:LYS:HG2	2.12	0.49
1:g:761:ARG:O	1:g:765:VAL:HG22	2.12	0.49
1:h:779:LEU:HD11	1:i:777:LEU:CD2	2.41	0.49
1:i:16:ILE:HD12	1:i:43:VAL:HG13	1.94	0.49
1:i:56:ARG:HH11	1:j:126:LEU:HB2	1.76	0.49
1:j:719:THR:O	1:j:723:LYS:HB3	2.13	0.49
1:l:336:ALA:HB2	1:l:357:TRP:HZ3	1.78	0.49
1:l:523:PHE:HB2	1:l:543:TYR:HB2	1.95	0.49
1:l:535:ALA:N	1:l:588:PHE:CE2	2.80	0.49
1:m:469:GLN:HG3	1:m:562:PHE:CE1	2.47	0.49
1:m:534:HIS:CG	1:m:534:HIS:O	2.66	0.49
1:A:16:ILE:HD12	1:A:43:VAL:HG13	1.94	0.48
1:A:126:LEU:HB2	1:m:56:ARG:HH11	1.76	0.48
1:A:469:GLN:OE1	1:m:464:HIS:NE2	2.46	0.48
1:C:338:GLN:OE1	1:C:370:LYS:HG2	2.13	0.48
1:C:469:GLN:NE2	1:C:470:VAL:O	2.46	0.48
1:D:170:GLN:HG3	1:D:201:VAL:HG11	1.93	0.48
1:D:469:GLN:NE2	1:D:470:VAL:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:523:PHE:HB2	1:D:543:TYR:HB2	1.95	0.48
1:F:523:PHE:HB2	1:F:543:TYR:HB2	1.95	0.48
1:G:338:GLN:OE1	1:G:370:LYS:HG2	2.13	0.48
1:G:591:PHE:HD1	1:G:598:ILE:HD11	1.78	0.48
1:I:464:HIS:NE2	1:J:469:GLN:OE1	2.46	0.48
1:I:535:ALA:N	1:I:588:PHE:CE2	2.80	0.48
1:J:61:VAL:HG22	1:J:105:LEU:HD12	1.95	0.48
1:J:338:GLN:OE1	1:J:370:LYS:HG2	2.13	0.48
1:J:591:PHE:HD1	1:J:598:ILE:HD11	1.78	0.48
1:J:685:ARG:HE	1:J:689:GLU:CD	2.21	0.48
1:J:758:GLU:HA	1:J:761:ARG:HG3	1.94	0.48
1:J:760:GLU:O	1:J:764:LYS:HG2	2.12	0.48
1:N:11:PRO:HD2	1:N:14:HIS:HB2	1.95	0.48
1:N:768:MET:HA	1:N:771:ILE:HG22	1.94	0.48
1:O:61:VAL:HG22	1:O:105:LEU:HD12	1.95	0.48
1:Q:11:PRO:HD2	1:Q:14:HIS:HB2	1.95	0.48
1:Q:759:LEU:HA	1:Q:762:VAL:HG12	1.95	0.48
1:R:685:ARG:HE	1:R:689:GLU:CD	2.21	0.48
1:R:719:THR:O	1:R:723:LYS:HB3	2.13	0.48
1:T:469:GLN:NE2	1:T:470:VAL:O	2.46	0.48
1:T:758:GLU:HA	1:T:761:ARG:NE	2.28	0.48
1:U:591:PHE:HD1	1:U:598:ILE:HD11	1.78	0.48
1:V:591:PHE:HD1	1:V:598:ILE:HD11	1.78	0.48
1:V:758:GLU:HA	1:V:761:ARG:NE	2.28	0.48
1:W:523:PHE:HB2	1:W:543:TYR:HB2	1.95	0.48
1:W:758:GLU:HA	1:W:761:ARG:NE	2.28	0.48
1:X:11:PRO:HD2	1:X:14:HIS:HB2	1.95	0.48
1:X:685:ARG:HE	1:X:689:GLU:CD	2.21	0.48
1:Y:758:GLU:HA	1:Y:761:ARG:HG3	1.94	0.48
1:Z:758:GLU:HA	1:Z:761:ARG:NE	2.28	0.48
1:a:122:HIS:HB3	1:a:160:VAL:HB	1.95	0.48
1:a:336:ALA:HB2	1:a:357:TRP:HZ3	1.78	0.48
1:b:230:ARG:HG3	1:b:266:GLU:HB3	1.95	0.48
1:b:464:HIS:NE2	1:c:469:GLN:OE1	2.46	0.48
1:c:535:ALA:N	1:c:588:PHE:CE2	2.80	0.48
1:c:591:PHE:HD1	1:c:598:ILE:HD11	1.78	0.48
1:d:338:GLN:OE1	1:d:370:LYS:HG2	2.13	0.48
1:d:543:TYR:HE1	1:d:572:CYS:HA	1.78	0.48
1:d:719:THR:O	1:d:723:LYS:HB3	2.14	0.48
1:f:336:ALA:HB2	1:f:357:TRP:HZ3	1.78	0.48
1:g:336:ALA:HB2	1:g:357:TRP:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:469:GLN:NE2	1:g:470:VAL:O	2.46	0.48
1:h:469:GLN:NE2	1:h:470:VAL:O	2.46	0.48
1:h:535:ALA:N	1:h:588:PHE:CE2	2.80	0.48
1:h:669:GLN:HE22	1:i:660:LEU:HD11	1.77	0.48
1:h:685:ARG:HE	1:h:689:GLU:CD	2.21	0.48
1:i:464:HIS:NE2	1:j:469:GLN:OE1	2.46	0.48
1:i:534:HIS:O	1:i:534:HIS:CG	2.66	0.48
1:j:543:TYR:HE1	1:j:572:CYS:HA	1.78	0.48
1:j:685:ARG:HE	1:j:689:GLU:CD	2.21	0.48
1:j:758:GLU:HA	1:j:761:ARG:HG3	1.94	0.48
1:k:794:LYS:HA	1:k:797:GLU:HG3	1.95	0.48
1:m:543:TYR:HE1	1:m:572:CYS:HA	1.78	0.48
1:m:759:LEU:HA	1:m:762:VAL:HG12	1.95	0.48
1:A:328:GLU:HG3	1:B:394:LYS:HE3	1.94	0.48
1:A:768:MET:HA	1:A:771:ILE:HG22	1.94	0.48
1:A:794:LYS:HA	1:A:797:GLU:HG3	1.95	0.48
1:B:534:HIS:O	1:B:534:HIS:CG	2.66	0.48
1:B:580:ARG:HA	1:B:583:VAL:HG22	1.94	0.48
1:C:580:ARG:HA	1:C:583:VAL:HG22	1.94	0.48
1:C:591:PHE:HD1	1:C:598:ILE:HD11	1.78	0.48
1:E:665:THR:OG1	1:F:589:ASP:OD2	2.19	0.48
1:E:772:TYR:HE1	1:F:770:LEU:HD23	1.79	0.48
1:F:758:GLU:HA	1:F:761:ARG:NE	2.28	0.48
1:G:469:GLN:NE2	1:G:470:VAL:O	2.46	0.48
1:I:328:GLU:HG3	1:J:394:LYS:HE3	1.94	0.48
1:J:278:PRO:HD3	1:K:297:GLY:O	2.12	0.48
1:J:469:GLN:NE2	1:J:470:VAL:O	2.46	0.48
1:J:779:LEU:HD11	1:K:777:LEU:CD2	2.41	0.48
1:K:230:ARG:HG3	1:K:266:GLU:HB3	1.95	0.48
1:K:543:TYR:HE1	1:K:572:CYS:HA	1.78	0.48
1:L:11:PRO:HD2	1:L:14:HIS:HB2	1.95	0.48
1:L:122:HIS:HB2	1:L:163:ILE:HD11	1.94	0.48
1:L:543:TYR:HE1	1:L:572:CYS:HA	1.78	0.48
1:N:469:GLN:NE2	1:N:470:VAL:O	2.47	0.48
1:N:669:GLN:HE22	1:O:660:LEU:HD11	1.77	0.48
1:O:169:LYS:HE3	1:O:172:GLN:HG3	1.94	0.48
1:O:338:GLN:OE1	1:O:370:LYS:HG2	2.13	0.48
1:O:669:GLN:HE22	1:P:660:LEU:HD11	1.77	0.48
1:O:758:GLU:HA	1:O:761:ARG:HG3	1.94	0.48
1:O:758:GLU:HA	1:O:761:ARG:NE	2.28	0.48
1:P:534:HIS:O	1:P:534:HIS:CG	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:61:VAL:HG22	1:Q:105:LEU:HD12	1.95	0.48
1:Q:469:GLN:NE2	1:Q:470:VAL:O	2.46	0.48
1:Q:760:GLU:O	1:Q:764:LYS:HG2	2.12	0.48
1:S:122:HIS:HB2	1:S:163:ILE:HD11	1.94	0.48
1:U:758:GLU:HA	1:U:761:ARG:NE	2.28	0.48
1:U:768:MET:HA	1:U:771:ILE:HG22	1.94	0.48
1:U:794:LYS:HA	1:U:797:GLU:HG3	1.95	0.48
1:V:16:ILE:HD12	1:V:43:VAL:HG13	1.94	0.48
1:V:685:ARG:HE	1:V:689:GLU:CD	2.21	0.48
1:V:794:LYS:HA	1:V:797:GLU:HG3	1.95	0.48
1:Y:469:GLN:NE2	1:Y:470:VAL:O	2.46	0.48
1:Z:543:TYR:HE1	1:Z:572:CYS:HA	1.78	0.48
1:Z:719:THR:O	1:Z:723:LYS:HB3	2.13	0.48
1:a:11:PRO:HD2	1:a:14:HIS:HB2	1.95	0.48
1:a:122:HIS:HB2	1:a:163:ILE:HD11	1.94	0.48
1:a:338:GLN:OE1	1:a:370:LYS:HG2	2.13	0.48
1:b:336:ALA:HB2	1:b:357:TRP:HZ3	1.78	0.48
1:d:665:THR:OG1	1:e:589:ASP:OD2	2.19	0.48
1:e:469:GLN:HG3	1:e:562:PHE:CE1	2.47	0.48
1:e:591:PHE:HD1	1:e:598:ILE:HD11	1.78	0.48
1:f:11:PRO:HD2	1:f:14:HIS:HB2	1.95	0.48
1:f:278:PRO:HD3	1:g:297:GLY:O	2.12	0.48
1:i:469:GLN:HG3	1:i:562:PHE:CE1	2.47	0.48
1:i:685:ARG:HE	1:i:689:GLU:CD	2.21	0.48
1:j:328:GLU:HG3	1:k:394:LYS:HE3	1.94	0.48
1:j:523:PHE:HB2	1:j:543:TYR:HB2	1.95	0.48
1:k:338:GLN:OE1	1:k:370:LYS:HG2	2.13	0.48
1:k:685:ARG:HE	1:k:689:GLU:CD	2.21	0.48
1:l:685:ARG:HE	1:l:689:GLU:CD	2.21	0.48
1:l:759:LEU:HA	1:l:762:VAL:HG12	1.95	0.48
1:m:122:HIS:HB3	1:m:160:VAL:HB	1.95	0.48
1:m:758:GLU:HA	1:m:761:ARG:HG3	1.94	0.48
1:A:169:LYS:HE3	1:A:172:GLN:HG3	1.94	0.48
1:A:170:GLN:HG3	1:A:201:VAL:HG11	1.94	0.48
1:A:660:LEU:HD11	1:m:669:GLN:HE22	1.77	0.48
1:A:759:LEU:HA	1:A:762:VAL:HG12	1.95	0.48
1:B:543:TYR:HE1	1:B:572:CYS:HA	1.78	0.48
1:C:543:TYR:HE1	1:C:572:CYS:HA	1.78	0.48
1:D:543:TYR:HE1	1:D:572:CYS:HA	1.78	0.48
1:D:719:THR:O	1:D:723:LYS:HB3	2.13	0.48
1:D:760:GLU:O	1:D:764:LYS:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:469:GLN:NE2	1:F:470:VAL:O	2.46	0.48
1:F:685:ARG:HE	1:F:689:GLU:CD	2.21	0.48
1:G:506:LYS:HZ3	1:G:523:PHE:HB3	1.77	0.48
1:H:122:HIS:HB2	1:H:163:ILE:HD11	1.94	0.48
1:H:759:LEU:HA	1:H:762:VAL:HG12	1.95	0.48
1:I:469:GLN:NE2	1:I:470:VAL:O	2.46	0.48
1:I:758:GLU:HA	1:I:761:ARG:NE	2.28	0.48
1:I:760:GLU:O	1:I:764:LYS:HG2	2.12	0.48
1:J:169:LYS:HE3	1:J:172:GLN:HG3	1.94	0.48
1:J:794:LYS:HA	1:J:797:GLU:HG3	1.95	0.48
1:K:469:GLN:NE2	1:K:470:VAL:O	2.46	0.48
1:K:534:HIS:O	1:K:534:HIS:CG	2.66	0.48
1:K:580:ARG:HA	1:K:583:VAL:HG22	1.94	0.48
1:K:794:LYS:HA	1:K:797:GLU:HG3	1.95	0.48
1:L:230:ARG:HG3	1:L:266:GLU:HB3	1.95	0.48
1:L:758:GLU:HA	1:L:761:ARG:NE	2.28	0.48
1:M:760:GLU:O	1:M:764:LYS:HG2	2.12	0.48
1:N:540:GLN:OE1	1:N:641:GLN:NE2	2.47	0.48
1:O:336:ALA:HB2	1:O:357:TRP:HZ3	1.78	0.48
1:O:580:ARG:HA	1:O:583:VAL:HG22	1.94	0.48
1:O:719:THR:O	1:O:723:LYS:HB3	2.13	0.48
1:O:759:LEU:HA	1:O:762:VAL:HG12	1.95	0.48
1:P:753:ILE:HG13	1:Q:744:ALA:HB1	1.96	0.48
1:P:758:GLU:HA	1:P:761:ARG:HG3	1.94	0.48
1:Q:16:ILE:HD12	1:Q:43:VAL:HG13	1.94	0.48
1:Q:591:PHE:HD1	1:Q:598:ILE:HD11	1.78	0.48
1:R:760:GLU:O	1:R:764:LYS:HG2	2.12	0.48
1:S:469:GLN:NE2	1:S:470:VAL:O	2.46	0.48
1:S:540:GLN:OE1	1:S:641:GLN:NE2	2.47	0.48
1:S:719:THR:O	1:S:723:LYS:HB3	2.13	0.48
1:U:469:GLN:NE2	1:U:470:VAL:O	2.46	0.48
1:V:753:ILE:HG13	1:W:744:ALA:HB1	1.96	0.48
1:V:759:LEU:HA	1:V:762:VAL:HG12	1.95	0.48
1:W:61:VAL:HG22	1:W:105:LEU:HD12	1.95	0.48
1:X:336:ALA:HB2	1:X:357:TRP:HZ3	1.78	0.48
1:X:753:ILE:HG13	1:Y:744:ALA:HB1	1.96	0.48
1:Y:580:ARG:HA	1:Y:583:VAL:HG22	1.94	0.48
1:a:278:PRO:HD3	1:b:297:GLY:O	2.12	0.48
1:a:719:THR:O	1:a:723:LYS:HB3	2.13	0.48
1:b:469:GLN:NE2	1:b:470:VAL:O	2.46	0.48
1:c:122:HIS:HB2	1:c:163:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:328:GLU:HG3	1:d:394:LYS:HE3	1.94	0.48
1:c:523:PHE:HB2	1:c:543:TYR:HB2	1.95	0.48
1:c:685:ARG:HE	1:c:689:GLU:CD	2.21	0.48
1:c:758:GLU:HA	1:c:761:ARG:NE	2.28	0.48
1:d:230:ARG:HG3	1:d:266:GLU:HB3	1.95	0.48
1:e:328:GLU:HG3	1:f:394:LYS:HE3	1.94	0.48
1:e:464:HIS:NE2	1:f:469:GLN:OE1	2.46	0.48
1:e:523:PHE:HB2	1:e:543:TYR:HB2	1.95	0.48
1:e:534:HIS:CG	1:e:534:HIS:O	2.66	0.48
1:f:523:PHE:HB2	1:f:543:TYR:HB2	1.95	0.48
1:g:685:ARG:HE	1:g:689:GLU:CD	2.21	0.48
1:i:336:ALA:O	1:i:354:GLY:N	2.45	0.48
1:i:665:THR:OG1	1:j:589:ASP:OD2	2.19	0.48
1:i:753:ILE:HG13	1:j:744:ALA:HB1	1.96	0.48
1:i:794:LYS:HA	1:i:797:GLU:HG3	1.95	0.48
1:j:534:HIS:O	1:j:534:HIS:CG	2.66	0.48
1:k:122:HIS:HB3	1:k:160:VAL:HB	1.95	0.48
1:k:737:GLY:O	1:k:740:SER:OG	2.28	0.48
1:k:759:LEU:HA	1:k:762:VAL:HG12	1.95	0.48
1:l:230:ARG:HG3	1:l:266:GLU:HB3	1.95	0.48
1:m:16:ILE:HD12	1:m:43:VAL:HG13	1.94	0.48
1:m:338:GLN:OE1	1:m:370:LYS:HG2	2.13	0.48
1:B:779:LEU:HD11	1:C:777:LEU:CD2	2.41	0.48
1:D:685:ARG:HE	1:D:689:GLU:CD	2.21	0.48
1:D:759:LEU:HA	1:D:762:VAL:HG12	1.95	0.48
1:D:794:LYS:HA	1:D:797:GLU:HG3	1.95	0.48
1:E:758:GLU:HA	1:E:761:ARG:NE	2.28	0.48
1:F:591:PHE:HD1	1:F:598:ILE:HD11	1.78	0.48
1:G:11:PRO:HD2	1:G:14:HIS:HB2	1.95	0.48
1:H:540:GLN:OE1	1:H:641:GLN:NE2	2.47	0.48
1:I:753:ILE:HG13	1:J:744:ALA:HB1	1.96	0.48
1:K:392:ASP:O	1:K:396:GLY:N	2.40	0.48
1:K:719:THR:O	1:K:723:LYS:HB3	2.13	0.48
1:L:759:LEU:HA	1:L:762:VAL:HG12	1.95	0.48
1:N:336:ALA:O	1:N:354:GLY:N	2.45	0.48
1:N:469:GLN:HG3	1:N:562:PHE:CE1	2.47	0.48
1:N:719:THR:O	1:N:723:LYS:HB3	2.13	0.48
1:O:122:HIS:HB2	1:O:163:ILE:HD11	1.94	0.48
1:P:170:GLN:HG3	1:P:201:VAL:HG11	1.93	0.48
1:P:469:GLN:NE2	1:P:470:VAL:O	2.46	0.48
1:P:768:MET:HA	1:P:771:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:540:GLN:OE1	1:Q:641:GLN:NE2	2.47	0.48
1:Q:772:TYR:HE1	1:R:770:LEU:HD23	1.79	0.48
1:R:122:HIS:HB3	1:R:160:VAL:HB	1.95	0.48
1:R:469:GLN:HG3	1:R:562:PHE:CE1	2.47	0.48
1:R:540:GLN:OE1	1:R:641:GLN:NE2	2.47	0.48
1:S:336:ALA:HB2	1:S:357:TRP:HZ3	1.78	0.48
1:S:338:GLN:OE1	1:S:370:LYS:HG2	2.13	0.48
1:S:685:ARG:HE	1:S:689:GLU:CD	2.21	0.48
1:S:758:GLU:HA	1:S:761:ARG:NE	2.28	0.48
1:T:540:GLN:OE1	1:T:641:GLN:NE2	2.47	0.48
1:U:61:VAL:HG22	1:U:105:LEU:HD12	1.95	0.48
1:U:580:ARG:HA	1:U:583:VAL:HG22	1.94	0.48
1:V:580:ARG:HA	1:V:583:VAL:HG22	1.94	0.48
1:X:540:GLN:OE1	1:X:641:GLN:NE2	2.47	0.48
1:X:719:THR:O	1:X:723:LYS:HB3	2.13	0.48
1:X:768:MET:HA	1:X:771:ILE:HG22	1.94	0.48
1:X:772:TYR:HE1	1:Y:770:LEU:HD23	1.79	0.48
1:Y:336:ALA:O	1:Y:354:GLY:N	2.45	0.48
1:Y:534:HIS:O	1:Y:534:HIS:CG	2.66	0.48
1:c:169:LYS:HE3	1:c:172:GLN:HG3	1.94	0.48
1:c:170:GLN:HG3	1:c:201:VAL:HG11	1.93	0.48
1:d:540:GLN:OE1	1:d:641:GLN:NE2	2.47	0.48
1:e:753:ILE:HG13	1:f:744:ALA:HB1	1.96	0.48
1:f:768:MET:HA	1:f:771:ILE:HG22	1.94	0.48
1:g:768:MET:HA	1:g:771:ILE:HG22	1.94	0.48
1:i:338:GLN:OE1	1:i:370:LYS:HG2	2.13	0.48
1:j:11:PRO:HD2	1:j:14:HIS:HB2	1.95	0.48
1:j:278:PRO:HD3	1:k:297:GLY:O	2.12	0.48
1:j:758:GLU:HA	1:j:761:ARG:NE	2.28	0.48
1:j:772:TYR:HE1	1:k:770:LEU:HD23	1.79	0.48
1:k:11:PRO:HD2	1:k:14:HIS:HB2	1.95	0.48
1:l:469:GLN:NE2	1:l:470:VAL:O	2.46	0.48
1:m:685:ARG:HE	1:m:689:GLU:CD	2.21	0.48
1:B:338:GLN:OE1	1:B:370:LYS:HG2	2.13	0.48
1:B:523:PHE:HB2	1:B:543:TYR:HB2	1.95	0.48
1:B:719:THR:O	1:B:723:LYS:HB3	2.13	0.48
1:B:758:GLU:HA	1:B:761:ARG:NE	2.28	0.48
1:C:685:ARG:HE	1:C:689:GLU:CD	2.21	0.48
1:C:759:LEU:HA	1:C:762:VAL:HG12	1.95	0.48
1:D:591:PHE:HD1	1:D:598:ILE:HD11	1.78	0.48
1:E:768:MET:HA	1:E:771:ILE:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:16:ILE:HD12	1:F:43:VAL:HG13	1.94	0.48
1:G:328:GLU:HG3	1:H:394:LYS:HE3	1.94	0.48
1:K:11:PRO:HD2	1:K:14:HIS:HB2	1.95	0.48
1:K:338:GLN:OE1	1:K:370:LYS:HG2	2.13	0.48
1:K:685:ARG:HE	1:K:689:GLU:CD	2.21	0.48
1:L:338:GLN:OE1	1:L:370:LYS:HG2	2.13	0.48
1:M:753:ILE:HG13	1:N:744:ALA:HB1	1.96	0.48
1:N:535:ALA:N	1:N:588:PHE:CE2	2.80	0.48
1:N:758:GLU:HA	1:N:761:ARG:NE	2.28	0.48
1:Q:543:TYR:HE1	1:Q:572:CYS:HA	1.78	0.48
1:R:230:ARG:HG3	1:R:266:GLU:HB3	1.95	0.48
1:R:543:TYR:HE1	1:R:572:CYS:HA	1.78	0.48
1:S:16:ILE:HD12	1:S:43:VAL:HG13	1.94	0.48
1:S:392:ASP:O	1:S:396:GLY:N	2.40	0.48
1:S:534:HIS:O	1:S:534:HIS:CG	2.66	0.48
1:S:759:LEU:HA	1:S:762:VAL:HG12	1.95	0.48
1:S:772:TYR:HE1	1:T:770:LEU:HD23	1.79	0.48
1:V:230:ARG:HG3	1:V:266:GLU:HB3	1.95	0.48
1:W:469:GLN:NE2	1:W:470:VAL:O	2.46	0.48
1:W:591:PHE:HD1	1:W:598:ILE:HD11	1.78	0.48
1:W:685:ARG:HE	1:W:689:GLU:CD	2.21	0.48
1:X:61:VAL:HG22	1:X:105:LEU:HD12	1.95	0.48
1:X:278:PRO:HD3	1:Y:297:GLY:O	2.12	0.48
1:Y:719:THR:O	1:Y:723:LYS:HB3	2.13	0.48
1:Z:469:GLN:NE2	1:Z:470:VAL:O	2.46	0.48
1:Z:770:LEU:HB2	1:Z:774:ARG:NH1	2.22	0.48
1:a:61:VAL:HG22	1:a:105:LEU:HD12	1.95	0.48
1:b:328:GLU:HG3	1:c:394:LYS:HE3	1.94	0.48
1:b:580:ARG:HA	1:b:583:VAL:HG22	1.94	0.48
1:c:11:PRO:HD2	1:c:14:HIS:HB2	1.95	0.48
1:c:336:ALA:O	1:c:354:GLY:N	2.45	0.48
1:c:768:MET:HA	1:c:771:ILE:HG22	1.94	0.48
1:d:469:GLN:NE2	1:d:470:VAL:O	2.46	0.48
1:d:760:GLU:O	1:d:764:LYS:HG2	2.12	0.48
1:f:336:ALA:O	1:f:354:GLY:N	2.45	0.48
1:g:719:THR:O	1:g:723:LYS:HB3	2.13	0.48
1:g:770:LEU:HB2	1:g:774:ARG:NH1	2.22	0.48
1:h:758:GLU:HA	1:h:761:ARG:NE	2.28	0.48
1:i:144:LEU:HD12	1:i:208:VAL:HG13	1.96	0.48
1:i:336:ALA:HB2	1:i:357:TRP:HZ3	1.78	0.48
1:i:469:GLN:NE2	1:i:470:VAL:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:719:THR:O	1:i:723:LYS:HB3	2.13	0.48
1:i:768:MET:HA	1:i:771:ILE:HG22	1.94	0.48
1:j:759:LEU:HA	1:j:762:VAL:HG12	1.95	0.48
1:k:56:ARG:HH11	1:l:126:LEU:HB2	1.76	0.48
1:k:543:TYR:HE1	1:k:572:CYS:HA	1.78	0.48
1:k:669:GLN:HE22	1:l:660:LEU:HD11	1.77	0.48
1:l:469:GLN:HG3	1:l:562:PHE:CE1	2.47	0.48
1:l:591:PHE:HD1	1:l:598:ILE:HD11	1.78	0.48
1:l:753:ILE:HG13	1:m:744:ALA:HB1	1.96	0.48
1:m:336:ALA:HB2	1:m:357:TRP:HZ3	1.78	0.48
1:m:469:GLN:NE2	1:m:470:VAL:O	2.46	0.48
1:B:122:HIS:HB2	1:B:163:ILE:HD11	1.94	0.48
1:D:540:GLN:OE1	1:D:641:GLN:NE2	2.47	0.48
1:E:794:LYS:HA	1:E:797:GLU:HG3	1.95	0.48
1:H:469:GLN:NE2	1:H:470:VAL:O	2.46	0.48
1:H:594:ASN:OD1	1:H:597:ARG:NE	2.46	0.48
1:J:16:ILE:HD12	1:J:43:VAL:HG13	1.94	0.48
1:J:540:GLN:OE1	1:J:641:GLN:NE2	2.47	0.48
1:K:540:GLN:OE1	1:K:641:GLN:NE2	2.47	0.48
1:L:464:HIS:NE2	1:M:469:GLN:OE1	2.46	0.48
1:M:772:TYR:HE1	1:N:770:LEU:HD23	1.79	0.48
1:N:16:ILE:HD12	1:N:43:VAL:HG13	1.94	0.48
1:N:794:LYS:HA	1:N:797:GLU:HG3	1.95	0.48
1:Q:523:PHE:HB2	1:Q:543:TYR:HB2	1.95	0.48
1:Q:719:THR:O	1:Q:723:LYS:HB3	2.13	0.48
1:Q:753:ILE:HG13	1:R:744:ALA:HB1	1.96	0.48
1:S:230:ARG:HG3	1:S:266:GLU:HB3	1.95	0.48
1:S:591:PHE:HD1	1:S:598:ILE:HD11	1.78	0.48
1:T:230:ARG:HG3	1:T:266:GLU:HB3	1.95	0.48
1:T:392:ASP:O	1:T:396:GLY:N	2.40	0.48
1:U:122:HIS:HB3	1:U:160:VAL:HB	1.95	0.48
1:U:535:ALA:N	1:U:588:PHE:CE2	2.80	0.48
1:U:540:GLN:OE1	1:U:641:GLN:NE2	2.47	0.48
1:V:169:LYS:HE3	1:V:172:GLN:HG3	1.94	0.48
1:W:540:GLN:OE1	1:W:641:GLN:NE2	2.47	0.48
1:X:580:ARG:HA	1:X:583:VAL:HG22	1.94	0.48
1:Y:758:GLU:HA	1:Y:761:ARG:NE	2.28	0.48
1:Z:669:GLN:HE22	1:a:660:LEU:HD11	1.77	0.48
1:Z:753:ILE:HG13	1:a:744:ALA:HB1	1.96	0.48
1:a:230:ARG:HG3	1:a:266:GLU:HB3	1.95	0.48
1:a:469:GLN:NE2	1:a:470:VAL:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:540:GLN:OE1	1:a:641:GLN:NE2	2.47	0.48
1:b:768:MET:HA	1:b:771:ILE:HG22	1.94	0.48
1:b:794:LYS:HA	1:b:797:GLU:HG3	1.95	0.48
1:d:794:LYS:HA	1:d:797:GLU:HG3	1.95	0.48
1:e:469:GLN:NE2	1:e:470:VAL:O	2.46	0.48
1:f:469:GLN:NE2	1:f:470:VAL:O	2.47	0.48
1:f:753:ILE:HG13	1:g:744:ALA:HB1	1.96	0.48
1:h:540:GLN:OE1	1:h:641:GLN:NE2	2.47	0.48
1:k:392:ASP:O	1:k:396:GLY:N	2.40	0.48
1:k:469:GLN:NE2	1:k:470:VAL:O	2.46	0.48
1:k:719:THR:O	1:k:723:LYS:HB3	2.13	0.48
1:k:760:GLU:O	1:k:764:LYS:HG2	2.12	0.48
1:l:534:HIS:CG	1:l:534:HIS:O	2.66	0.48
1:A:336:ALA:HB2	1:A:357:TRP:HZ3	1.78	0.48
1:A:523:PHE:HB2	1:A:543:TYR:HB2	1.95	0.48
1:A:685:ARG:HE	1:A:689:GLU:CD	2.21	0.48
1:A:758:GLU:HA	1:A:761:ARG:HG3	1.94	0.48
1:C:11:PRO:HD2	1:C:14:HIS:HB2	1.95	0.48
1:C:122:HIS:HB3	1:C:160:VAL:HB	1.95	0.48
1:D:144:LEU:HD12	1:D:208:VAL:HG13	1.96	0.48
1:E:469:GLN:NE2	1:E:470:VAL:O	2.46	0.48
1:E:719:THR:O	1:E:723:LYS:HB3	2.13	0.48
1:F:336:ALA:HB2	1:F:357:TRP:HZ3	1.78	0.48
1:G:685:ARG:HE	1:G:689:GLU:CD	2.21	0.48
1:H:338:GLN:OE1	1:H:370:LYS:HG2	2.13	0.48
1:H:523:PHE:HB2	1:H:543:TYR:HB2	1.95	0.48
1:H:772:TYR:HE1	1:I:770:LEU:HD23	1.79	0.48
1:I:523:PHE:HB2	1:I:543:TYR:HB2	1.95	0.48
1:I:534:HIS:CG	1:I:534:HIS:O	2.66	0.48
1:I:719:THR:O	1:I:723:LYS:HB3	2.13	0.48
1:J:11:PRO:HD2	1:J:14:HIS:HB2	1.95	0.48
1:J:230:ARG:HG3	1:J:266:GLU:HB3	1.95	0.48
1:K:144:LEU:HD12	1:K:208:VAL:HG13	1.96	0.48
1:K:768:MET:HA	1:K:771:ILE:HG22	1.94	0.48
1:L:580:ARG:HA	1:L:583:VAL:HG22	1.94	0.48
1:M:540:GLN:OE1	1:M:641:GLN:NE2	2.47	0.48
1:N:169:LYS:HE3	1:N:172:GLN:HG3	1.94	0.48
1:N:580:ARG:HA	1:N:583:VAL:HG22	1.94	0.48
1:N:779:LEU:HD11	1:O:777:LEU:CD2	2.41	0.48
1:O:540:GLN:OE1	1:O:641:GLN:NE2	2.47	0.48
1:P:794:LYS:HA	1:P:797:GLU:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:758:GLU:HA	1:Q:761:ARG:NE	2.28	0.48
1:R:758:GLU:HA	1:R:761:ARG:NE	2.28	0.48
1:T:61:VAL:HG22	1:T:105:LEU:HD12	1.95	0.48
1:T:378:GLN:HA	1:T:407:MET:HE1	1.96	0.48
1:T:523:PHE:HB2	1:T:543:TYR:HB2	1.95	0.48
1:U:758:GLU:HA	1:U:761:ARG:HG3	1.94	0.48
1:V:543:TYR:HE1	1:V:572:CYS:HA	1.78	0.48
1:V:719:THR:O	1:V:723:LYS:HB3	2.13	0.48
1:W:122:HIS:HB3	1:W:160:VAL:HB	1.95	0.48
1:W:144:LEU:HD12	1:W:208:VAL:HG13	1.96	0.48
1:W:594:ASN:OD1	1:W:597:ARG:NE	2.46	0.48
1:X:523:PHE:HB2	1:X:543:TYR:HB2	1.95	0.48
1:X:760:GLU:O	1:X:764:LYS:HG2	2.12	0.48
1:Y:540:GLN:OE1	1:Y:641:GLN:NE2	2.47	0.48
1:Z:464:HIS:NE2	1:a:469:GLN:OE1	2.46	0.48
1:Z:713:SER:HA	1:a:704:LYS:HZ2	1.77	0.48
1:a:794:LYS:HA	1:a:797:GLU:HG3	1.95	0.48
1:b:144:LEU:HD12	1:b:208:VAL:HG13	1.96	0.48
1:c:122:HIS:HB3	1:c:160:VAL:HB	1.95	0.48
1:c:543:TYR:HE1	1:c:572:CYS:HA	1.78	0.48
1:d:770:LEU:HB2	1:d:774:ARG:NH1	2.22	0.48
1:e:230:ARG:HG3	1:e:266:GLU:HB3	1.95	0.48
1:f:543:TYR:HE1	1:f:572:CYS:HA	1.78	0.48
1:g:540:GLN:OE1	1:g:641:GLN:NE2	2.47	0.48
1:g:794:LYS:HA	1:g:797:GLU:HG3	1.95	0.48
1:j:336:ALA:HB2	1:j:357:TRP:HZ3	1.78	0.48
1:j:338:GLN:OE1	1:j:370:LYS:HG2	2.13	0.48
1:j:768:MET:HA	1:j:771:ILE:HG22	1.94	0.48
1:k:591:PHE:HD1	1:k:598:ILE:HD11	1.78	0.48
1:l:338:GLN:OE1	1:l:370:LYS:HG2	2.13	0.48
1:l:543:TYR:HE1	1:l:572:CYS:HA	1.78	0.48
1:l:758:GLU:HA	1:l:761:ARG:NE	2.28	0.48
1:m:719:THR:O	1:m:723:LYS:HB3	2.13	0.48
1:A:469:GLN:NE2	1:A:470:VAL:O	2.46	0.48
1:A:719:THR:O	1:A:723:LYS:HB3	2.13	0.48
1:B:16:ILE:HD12	1:B:43:VAL:HG13	1.94	0.48
1:B:685:ARG:HE	1:B:689:GLU:CD	2.21	0.48
1:B:758:GLU:HA	1:B:761:ARG:HE	1.79	0.48
1:C:540:GLN:OE1	1:C:641:GLN:NE2	2.47	0.48
1:C:794:LYS:HA	1:C:797:GLU:HG3	1.95	0.48
1:D:753:ILE:HG13	1:E:744:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:378:GLN:HA	1:F:407:MET:HE1	1.96	0.48
1:F:535:ALA:N	1:F:588:PHE:CE2	2.80	0.48
1:G:138:MET:HE2	1:G:138:MET:HA	1.96	0.48
1:G:665:THR:OG1	1:H:589:ASP:OD2	2.19	0.48
1:H:144:LEU:HD12	1:H:208:VAL:HG13	1.96	0.48
1:H:534:HIS:CG	1:H:534:HIS:O	2.66	0.48
1:H:543:TYR:HE1	1:H:572:CYS:HA	1.78	0.48
1:H:753:ILE:HG13	1:I:744:ALA:HB1	1.96	0.48
1:I:336:ALA:HB2	1:I:357:TRP:HZ3	1.78	0.48
1:I:759:LEU:HA	1:I:762:VAL:HG12	1.95	0.48
1:J:753:ILE:HG13	1:K:744:ALA:HB1	1.96	0.48
1:K:328:GLU:HG3	1:L:394:LYS:HE3	1.94	0.48
1:L:392:ASP:O	1:L:396:GLY:N	2.40	0.48
1:M:719:THR:O	1:M:723:LYS:HB3	2.13	0.48
1:O:144:LEU:HD12	1:O:208:VAL:HG13	1.96	0.48
1:O:328:GLU:HG3	1:P:394:LYS:HE3	1.94	0.48
1:P:230:ARG:HG3	1:P:266:GLU:HB3	1.95	0.48
1:P:464:HIS:NE2	1:Q:469:GLN:OE1	2.46	0.48
1:R:392:ASP:O	1:R:396:GLY:N	2.40	0.48
1:R:759:LEU:HA	1:R:762:VAL:HG12	1.95	0.48
1:T:336:ALA:HB2	1:T:357:TRP:HZ3	1.78	0.48
1:V:469:GLN:NE2	1:V:470:VAL:O	2.46	0.48
1:Y:768:MET:HA	1:Y:771:ILE:HG22	1.94	0.48
1:Z:61:VAL:HG22	1:Z:105:LEU:HD12	1.95	0.48
1:Z:540:GLN:OE1	1:Z:641:GLN:NE2	2.47	0.48
1:a:543:TYR:HE1	1:a:572:CYS:HA	1.78	0.48
1:b:11:PRO:HD2	1:b:14:HIS:HB2	1.95	0.48
1:b:523:PHE:HB2	1:b:543:TYR:HB2	1.95	0.48
1:b:534:HIS:O	1:b:534:HIS:CG	2.66	0.48
1:c:469:GLN:NE2	1:c:470:VAL:O	2.46	0.48
1:d:591:PHE:HD1	1:d:598:ILE:HD11	1.78	0.48
1:f:16:ILE:HD12	1:f:43:VAL:HG13	1.94	0.48
1:f:580:ARG:HA	1:f:583:VAL:HG22	1.94	0.48
1:f:685:ARG:HE	1:f:689:GLU:CD	2.21	0.48
1:f:759:LEU:HA	1:f:762:VAL:HG12	1.95	0.48
1:f:772:TYR:HE1	1:g:770:LEU:HD23	1.79	0.48
1:g:122:HIS:HB3	1:g:160:VAL:HB	1.95	0.48
1:h:122:HIS:HB3	1:h:160:VAL:HB	1.95	0.48
1:h:534:HIS:O	1:h:534:HIS:CG	2.66	0.48
1:h:719:THR:O	1:h:723:LYS:HB3	2.13	0.48
1:i:61:VAL:HG22	1:i:105:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:230:ARG:HG3	1:k:266:GLU:HB3	1.95	0.48
1:k:758:GLU:HA	1:k:761:ARG:HG3	1.94	0.48
1:m:378:GLN:HA	1:m:407:MET:HE1	1.96	0.48
1:m:758:GLU:HA	1:m:761:ARG:HE	1.79	0.48
1:A:61:VAL:HG22	1:A:105:LEU:HD12	1.95	0.48
1:A:744:ALA:HB1	1:m:753:ILE:HG13	1.96	0.48
1:B:144:LEU:HD12	1:B:208:VAL:HG13	1.96	0.48
1:B:469:GLN:NE2	1:B:470:VAL:O	2.46	0.48
1:C:230:ARG:HG3	1:C:266:GLU:HB3	1.95	0.48
1:C:378:GLN:HA	1:C:407:MET:HE1	1.96	0.48
1:C:395:THR:HG23	1:C:397:LYS:HG2	1.96	0.48
1:E:119:THR:OG1	1:E:163:ILE:O	2.25	0.48
1:E:580:ARG:HA	1:E:583:VAL:HG22	1.94	0.48
1:F:230:ARG:HG3	1:F:266:GLU:HB3	1.95	0.48
1:H:758:GLU:HA	1:H:761:ARG:HE	1.79	0.48
1:H:768:MET:HA	1:H:771:ILE:HG22	1.94	0.48
1:I:338:GLN:OE1	1:I:370:LYS:HG2	2.13	0.48
1:I:758:GLU:HA	1:I:761:ARG:HG3	1.94	0.48
1:J:719:THR:O	1:J:723:LYS:HB3	2.13	0.48
1:K:122:HIS:HB3	1:K:160:VAL:HB	1.95	0.48
1:L:378:GLN:HA	1:L:407:MET:HE1	1.96	0.48
1:L:794:LYS:HA	1:L:797:GLU:HG3	1.95	0.48
1:M:469:GLN:NE2	1:M:470:VAL:O	2.46	0.48
1:M:580:ARG:HA	1:M:583:VAL:HG22	1.94	0.48
1:N:144:LEU:HD12	1:N:208:VAL:HG13	1.96	0.48
1:N:230:ARG:HG3	1:N:266:GLU:HB3	1.95	0.48
1:N:759:LEU:HA	1:N:762:VAL:HG12	1.95	0.48
1:N:770:LEU:HB2	1:N:774:ARG:NH1	2.22	0.48
1:O:56:ARG:HD3	1:P:126:LEU:HB2	1.96	0.48
1:O:464:HIS:NE2	1:P:469:GLN:OE1	2.46	0.48
1:O:469:GLN:NE2	1:O:470:VAL:O	2.46	0.48
1:O:753:ILE:HG13	1:P:744:ALA:HB1	1.96	0.48
1:P:758:GLU:HA	1:P:761:ARG:HE	1.79	0.48
1:Q:779:LEU:HD11	1:R:777:LEU:CD2	2.41	0.48
1:R:336:ALA:O	1:R:354:GLY:N	2.45	0.48
1:R:469:GLN:NE2	1:R:470:VAL:O	2.46	0.48
1:R:534:HIS:O	1:R:534:HIS:CG	2.66	0.48
1:S:122:HIS:HB3	1:S:160:VAL:HB	1.94	0.48
1:T:11:PRO:HD2	1:T:14:HIS:HB2	1.95	0.48
1:T:122:HIS:HB2	1:T:163:ILE:HD11	1.94	0.48
1:U:719:THR:O	1:U:723:LYS:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:779:LEU:HD11	1:W:777:LEU:CD2	2.41	0.48
1:W:230:ARG:HG3	1:W:266:GLU:HB3	1.95	0.48
1:X:378:GLN:HA	1:X:407:MET:HE1	1.96	0.48
1:Y:464:HIS:NE2	1:Z:469:GLN:OE1	2.46	0.48
1:Y:543:TYR:HE1	1:Y:572:CYS:HA	1.78	0.48
1:a:138:MET:HE2	1:a:138:MET:HA	1.96	0.48
1:a:395:THR:HG23	1:a:397:LYS:HG2	1.96	0.48
1:a:758:GLU:HA	1:a:761:ARG:NE	2.28	0.48
1:b:719:THR:O	1:b:723:LYS:HB3	2.13	0.48
1:c:378:GLN:HA	1:c:407:MET:HE1	1.96	0.48
1:c:540:GLN:OE1	1:c:641:GLN:NE2	2.47	0.48
1:c:719:THR:O	1:c:723:LYS:HB3	2.13	0.48
1:c:759:LEU:HA	1:c:762:VAL:HG12	1.95	0.48
1:d:378:GLN:HA	1:d:407:MET:HE1	1.96	0.48
1:d:753:ILE:HG13	1:e:744:ALA:HB1	1.96	0.48
1:e:685:ARG:HE	1:e:689:GLU:CD	2.21	0.48
1:e:719:THR:O	1:e:723:LYS:HB3	2.13	0.48
1:h:11:PRO:HD2	1:h:14:HIS:HB2	1.95	0.48
1:h:336:ALA:HB2	1:h:357:TRP:HZ3	1.78	0.48
1:h:523:PHE:HB2	1:h:543:TYR:HB2	1.95	0.48
1:h:591:PHE:HD1	1:h:598:ILE:HD11	1.78	0.48
1:j:469:GLN:NE2	1:j:470:VAL:O	2.46	0.48
1:j:758:GLU:HA	1:j:761:ARG:HE	1.79	0.48
1:k:336:ALA:HB2	1:k:357:TRP:HZ3	1.78	0.48
1:l:11:PRO:HD2	1:l:14:HIS:HB2	1.95	0.48
1:l:395:THR:HG23	1:l:397:LYS:HG2	1.96	0.48
1:C:144:LEU:HD12	1:C:208:VAL:HG13	1.96	0.48
1:D:378:GLN:HA	1:D:407:MET:HE1	1.96	0.48
1:D:392:ASP:O	1:D:396:GLY:N	2.40	0.48
1:H:794:LYS:HA	1:H:797:GLU:HG3	1.95	0.48
1:J:543:TYR:HE1	1:J:572:CYS:HA	1.78	0.48
1:K:378:GLN:HA	1:K:407:MET:HE1	1.96	0.48
1:K:758:GLU:HA	1:K:761:ARG:NE	2.28	0.48
1:L:469:GLN:NE2	1:L:470:VAL:O	2.46	0.48
1:M:758:GLU:HA	1:M:761:ARG:HE	1.79	0.48
1:M:779:LEU:HD11	1:N:777:LEU:CD2	2.41	0.48
1:N:543:TYR:HE1	1:N:572:CYS:HA	1.78	0.48
1:P:540:GLN:OE1	1:P:641:GLN:NE2	2.47	0.48
1:Q:534:HIS:O	1:Q:534:HIS:CG	2.66	0.48
1:R:395:THR:HG23	1:R:397:LYS:HG2	1.96	0.48
1:S:794:LYS:HA	1:S:797:GLU:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:138:MET:HE2	1:T:138:MET:HA	1.96	0.48
1:T:543:TYR:HE1	1:T:572:CYS:HA	1.78	0.48
1:T:685:ARG:HE	1:T:689:GLU:CD	2.21	0.48
1:T:753:ILE:HG13	1:U:744:ALA:HB1	1.96	0.48
1:U:11:PRO:HD2	1:U:14:HIS:HB2	1.95	0.48
1:U:758:GLU:HA	1:U:761:ARG:HE	1.79	0.48
1:U:772:TYR:HE1	1:V:770:LEU:HD23	1.79	0.48
1:U:779:LEU:HD11	1:V:777:LEU:CD2	2.41	0.48
1:V:523:PHE:HB2	1:V:543:TYR:HB2	1.95	0.48
1:W:378:GLN:HA	1:W:407:MET:HE1	1.96	0.48
1:X:144:LEU:HD12	1:X:208:VAL:HG13	1.96	0.48
1:X:230:ARG:HG3	1:X:266:GLU:HB3	1.95	0.48
1:Z:523:PHE:HB2	1:Z:543:TYR:HB2	1.95	0.48
1:a:591:PHE:HD1	1:a:598:ILE:HD11	1.78	0.48
1:c:336:ALA:HB2	1:c:357:TRP:HZ3	1.78	0.48
1:c:758:GLU:HA	1:c:761:ARG:HE	1.79	0.48
1:d:594:ASN:OD1	1:d:597:ARG:NE	2.46	0.48
1:e:144:LEU:HD12	1:e:208:VAL:HG13	1.96	0.48
1:e:336:ALA:O	1:e:354:GLY:N	2.45	0.48
1:e:378:GLN:HA	1:e:407:MET:HE1	1.96	0.48
1:f:758:GLU:HA	1:f:761:ARG:HE	1.79	0.48
1:f:758:GLU:HA	1:f:761:ARG:NE	2.28	0.48
1:g:338:GLN:OE1	1:g:370:LYS:HG2	2.13	0.48
1:g:591:PHE:HD1	1:g:598:ILE:HD11	1.78	0.48
1:h:138:MET:HE2	1:h:138:MET:HA	1.96	0.48
1:h:395:THR:HG23	1:h:397:LYS:HG2	1.96	0.48
1:j:144:LEU:HD12	1:j:208:VAL:HG13	1.96	0.48
1:j:169:LYS:HE3	1:j:172:GLN:HG3	1.94	0.48
1:D:395:THR:HG23	1:D:397:LYS:HG2	1.96	0.47
1:E:122:HIS:HB3	1:E:160:VAL:HB	1.95	0.47
1:E:540:GLN:OE1	1:E:641:GLN:NE2	2.47	0.47
1:E:758:GLU:HA	1:E:761:ARG:HE	1.79	0.47
1:F:11:PRO:HD2	1:F:14:HIS:HB2	1.95	0.47
1:F:56:ARG:HD3	1:G:126:LEU:HB2	1.96	0.47
1:F:543:TYR:HE1	1:F:572:CYS:HA	1.78	0.47
1:H:719:THR:O	1:H:723:LYS:HB3	2.13	0.47
1:J:336:ALA:HB2	1:J:357:TRP:HZ3	1.78	0.47
1:J:770:LEU:HB2	1:J:774:ARG:NH1	2.22	0.47
1:M:61:VAL:HG22	1:M:105:LEU:HD12	1.95	0.47
1:P:56:ARG:HD3	1:Q:126:LEU:HB2	1.96	0.47
1:P:138:MET:HA	1:P:138:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:144:LEU:HD12	1:P:208:VAL:HG13	1.96	0.47
1:Q:378:GLN:HA	1:Q:407:MET:HE1	1.96	0.47
1:R:328:GLU:HG3	1:S:394:LYS:HE3	1.94	0.47
1:T:758:GLU:HA	1:T:761:ARG:HE	1.79	0.47
1:U:338:GLN:OE1	1:U:370:LYS:HG2	2.13	0.47
1:U:523:PHE:HB2	1:U:543:TYR:HB2	1.95	0.47
1:U:543:TYR:HE1	1:U:572:CYS:HA	1.78	0.47
1:Y:144:LEU:HD12	1:Y:208:VAL:HG13	1.96	0.47
1:Z:56:ARG:HD3	1:a:126:LEU:HB2	1.96	0.47
1:Z:794:LYS:HA	1:Z:797:GLU:HG3	1.95	0.47
1:a:753:ILE:HG13	1:b:744:ALA:HB1	1.96	0.47
1:b:138:MET:HE2	1:b:138:MET:HA	1.96	0.47
1:b:336:ALA:O	1:b:354:GLY:N	2.45	0.47
1:b:540:GLN:OE1	1:b:641:GLN:NE2	2.47	0.47
1:c:772:TYR:HE1	1:d:770:LEU:HD23	1.79	0.47
1:d:56:ARG:HD3	1:e:126:LEU:HB2	1.96	0.47
1:e:336:ALA:HB2	1:e:357:TRP:HZ3	1.78	0.47
1:e:395:THR:HG23	1:e:397:LYS:HG2	1.96	0.47
1:e:543:TYR:HE1	1:e:572:CYS:HA	1.78	0.47
1:e:794:LYS:HA	1:e:797:GLU:HG3	1.95	0.47
1:h:543:TYR:HE1	1:h:572:CYS:HA	1.78	0.47
1:j:681:GLU:HA	1:k:675:HIS:CE1	2.50	0.47
1:k:395:THR:HG23	1:k:397:LYS:HG2	1.96	0.47
1:l:719:THR:O	1:l:723:LYS:HB3	2.13	0.47
1:m:794:LYS:HA	1:m:797:GLU:HG3	1.95	0.47
1:B:591:PHE:HD1	1:B:598:ILE:HD11	1.78	0.47
1:B:768:MET:HA	1:B:771:ILE:HG22	1.94	0.47
1:C:138:MET:HA	1:C:138:MET:HE2	1.96	0.47
1:D:11:PRO:HD2	1:D:14:HIS:HB2	1.95	0.47
1:E:336:ALA:HB2	1:E:357:TRP:HZ3	1.78	0.47
1:F:534:HIS:CG	1:F:534:HIS:O	2.66	0.47
1:G:122:HIS:HB3	1:G:160:VAL:HB	1.95	0.47
1:G:540:GLN:OE1	1:G:641:GLN:NE2	2.47	0.47
1:G:794:LYS:HA	1:G:797:GLU:HG3	1.95	0.47
1:H:336:ALA:O	1:H:354:GLY:N	2.45	0.47
1:H:685:ARG:HE	1:H:689:GLU:CD	2.21	0.47
1:I:591:PHE:HD1	1:I:598:ILE:HD11	1.78	0.47
1:J:144:LEU:HD12	1:J:208:VAL:HG13	1.96	0.47
1:L:591:PHE:HD1	1:L:598:ILE:HD11	1.78	0.47
1:M:338:GLN:OE1	1:M:370:LYS:HG2	2.13	0.47
1:M:523:PHE:HB2	1:M:543:TYR:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:138:MET:HE2	1:O:138:MET:HA	1.96	0.47
1:P:11:PRO:HD2	1:P:14:HIS:HB2	1.95	0.47
1:P:719:THR:O	1:P:723:LYS:HB3	2.13	0.47
1:P:772:TYR:HE1	1:Q:770:LEU:HD23	1.79	0.47
1:Q:758:GLU:HA	1:Q:761:ARG:HG3	1.94	0.47
1:R:523:PHE:HB2	1:R:543:TYR:HB2	1.95	0.47
1:T:681:GLU:HA	1:U:675:HIS:CE1	2.50	0.47
1:U:56:ARG:HD3	1:V:126:LEU:HB2	1.96	0.47
1:U:753:ILE:HG13	1:V:744:ALA:HB1	1.96	0.47
1:V:681:GLU:HA	1:W:675:HIS:CE1	2.50	0.47
1:V:758:GLU:HA	1:V:761:ARG:HE	1.79	0.47
1:W:395:THR:HG23	1:W:397:LYS:HG2	1.96	0.47
1:X:469:GLN:NE2	1:X:470:VAL:O	2.46	0.47
1:Y:758:GLU:HA	1:Y:761:ARG:HE	1.79	0.47
1:Z:230:ARG:HG3	1:Z:266:GLU:HB3	1.95	0.47
1:b:61:VAL:HG22	1:b:105:LEU:HD12	1.95	0.47
1:b:378:GLN:HA	1:b:407:MET:HE1	1.96	0.47
1:b:758:GLU:HA	1:b:761:ARG:HG3	1.94	0.47
1:d:395:THR:HG23	1:d:397:LYS:HG2	1.96	0.47
1:d:759:LEU:HA	1:d:762:VAL:HG12	1.95	0.47
1:e:760:GLU:O	1:e:764:LYS:HG2	2.12	0.47
1:f:378:GLN:HA	1:f:407:MET:HE1	1.96	0.47
1:f:719:THR:O	1:f:723:LYS:HB3	2.13	0.47
1:h:378:GLN:HA	1:h:407:MET:HE1	1.96	0.47
1:i:138:MET:HE2	1:i:138:MET:HA	1.96	0.47
1:i:230:ARG:HG3	1:i:266:GLU:HB3	1.95	0.47
1:i:540:GLN:OE1	1:i:641:GLN:NE2	2.47	0.47
1:j:61:VAL:HG22	1:j:105:LEU:HD12	1.95	0.47
1:k:534:HIS:CG	1:k:534:HIS:O	2.66	0.47
1:m:138:MET:HE2	1:m:138:MET:HA	1.96	0.47
1:A:122:HIS:HB3	1:A:160:VAL:HB	1.95	0.47
1:A:338:GLN:OE1	1:A:370:LYS:HG2	2.13	0.47
1:A:675:HIS:CE1	1:m:681:GLU:HA	2.50	0.47
1:A:681:GLU:HA	1:B:675:HIS:CE1	2.49	0.47
1:A:760:GLU:O	1:A:764:LYS:HG2	2.12	0.47
1:D:61:VAL:HG22	1:D:105:LEU:HD12	1.95	0.47
1:E:144:LEU:HD12	1:E:208:VAL:HG13	1.96	0.47
1:E:395:THR:HG23	1:E:397:LYS:HG2	1.96	0.47
1:E:543:TYR:HE1	1:E:572:CYS:HA	1.78	0.47
1:F:138:MET:HE2	1:F:138:MET:HA	1.96	0.47
1:F:326:LEU:HB2	1:F:330:GLN:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:753:ILE:HG13	1:G:744:ALA:HB1	1.96	0.47
1:G:56:ARG:HD3	1:H:126:LEU:HB2	1.96	0.47
1:G:594:ASN:OD1	1:G:597:ARG:NE	2.46	0.47
1:G:681:GLU:HA	1:H:675:HIS:CE1	2.50	0.47
1:H:61:VAL:HG22	1:H:105:LEU:HD12	1.95	0.47
1:I:665:THR:OG1	1:J:589:ASP:OD2	2.19	0.47
1:K:336:ALA:HB2	1:K:357:TRP:HZ3	1.78	0.47
1:L:144:LEU:HD12	1:L:208:VAL:HG13	1.96	0.47
1:L:534:HIS:CG	1:L:534:HIS:O	2.66	0.47
1:O:681:GLU:HA	1:P:675:HIS:CE1	2.49	0.47
1:Q:56:ARG:HD3	1:R:126:LEU:HB2	1.96	0.47
1:Q:681:GLU:HA	1:R:675:HIS:CE1	2.50	0.47
1:S:378:GLN:HA	1:S:407:MET:HE1	1.96	0.47
1:S:395:THR:HG23	1:S:397:LYS:HG2	1.96	0.47
1:U:336:ALA:HB2	1:U:357:TRP:HZ3	1.78	0.47
1:V:56:ARG:HD3	1:W:126:LEU:HB2	1.96	0.47
1:V:540:GLN:OE1	1:V:641:GLN:NE2	2.47	0.47
1:X:395:THR:HG23	1:X:397:LYS:HG2	1.96	0.47
1:Z:591:PHE:HD1	1:Z:598:ILE:HD11	1.78	0.47
1:Z:681:GLU:HA	1:a:675:HIS:CE1	2.50	0.47
1:a:144:LEU:HD12	1:a:208:VAL:HG13	1.96	0.47
1:b:16:ILE:HD12	1:b:43:VAL:HG13	1.94	0.47
1:b:543:TYR:HE1	1:b:572:CYS:HA	1.78	0.47
1:b:681:GLU:HA	1:c:675:HIS:CE1	2.50	0.47
1:d:685:ARG:HE	1:d:689:GLU:CD	2.21	0.47
1:f:230:ARG:HG3	1:f:266:GLU:HB3	1.95	0.47
1:g:138:MET:HE2	1:g:138:MET:HA	1.96	0.47
1:g:230:ARG:HG3	1:g:266:GLU:HB3	1.95	0.47
1:g:378:GLN:HA	1:g:407:MET:HE1	1.96	0.47
1:g:759:LEU:HA	1:g:762:VAL:HG12	1.95	0.47
1:h:56:ARG:HD3	1:i:126:LEU:HB2	1.96	0.47
1:k:144:LEU:HD12	1:k:208:VAL:HG13	1.96	0.47
1:l:681:GLU:HA	1:m:675:HIS:CE1	2.50	0.47
1:B:594:ASN:OD1	1:B:597:ARG:NE	2.46	0.47
1:B:759:LEU:HA	1:B:762:VAL:HG12	1.95	0.47
1:D:594:ASN:OD1	1:D:597:ARG:NE	2.46	0.47
1:G:378:GLN:HA	1:G:407:MET:HE1	1.96	0.47
1:G:575:ILE:O	1:G:579:VAL:HG23	2.15	0.47
1:H:138:MET:HA	1:H:138:MET:HE2	1.96	0.47
1:H:575:ILE:O	1:H:579:VAL:HG23	2.15	0.47
1:H:706:LEU:HD22	1:H:707:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:540:GLN:OE1	1:I:641:GLN:NE2	2.47	0.47
1:I:543:TYR:HE1	1:I:572:CYS:HA	1.78	0.47
1:I:758:GLU:HA	1:I:761:ARG:HE	1.79	0.47
1:K:56:ARG:HD3	1:L:126:LEU:HB2	1.96	0.47
1:L:540:GLN:OE1	1:L:641:GLN:NE2	2.47	0.47
1:N:56:ARG:HD3	1:O:126:LEU:HB2	1.96	0.47
1:N:122:HIS:HB3	1:N:160:VAL:HB	1.95	0.47
1:O:392:ASP:O	1:O:396:GLY:N	2.40	0.47
1:O:543:TYR:HE1	1:O:572:CYS:HA	1.78	0.47
1:Q:138:MET:HE2	1:Q:138:MET:HA	1.96	0.47
1:Q:144:LEU:HD12	1:Q:208:VAL:HG13	1.96	0.47
1:Q:758:GLU:HA	1:Q:761:ARG:HE	1.79	0.47
1:S:56:ARG:HD3	1:T:126:LEU:HB2	1.96	0.47
1:S:523:PHE:HB2	1:S:543:TYR:HB2	1.95	0.47
1:T:56:ARG:HD3	1:U:126:LEU:HB2	1.96	0.47
1:T:395:THR:HG23	1:T:397:LYS:HG2	1.96	0.47
1:T:719:THR:O	1:T:723:LYS:HB3	2.13	0.47
1:U:575:ILE:O	1:U:579:VAL:HG23	2.15	0.47
1:V:144:LEU:HD12	1:V:208:VAL:HG13	1.96	0.47
1:V:594:ASN:OD1	1:V:597:ARG:NE	2.46	0.47
1:Y:575:ILE:O	1:Y:579:VAL:HG23	2.15	0.47
1:Y:753:ILE:HG13	1:Z:744:ALA:HB1	1.96	0.47
1:Z:772:TYR:HE1	1:a:770:LEU:HD23	1.79	0.47
1:b:395:THR:HG23	1:b:397:LYS:HG2	1.96	0.47
1:c:138:MET:HA	1:c:138:MET:HE2	1.96	0.47
1:g:575:ILE:O	1:g:579:VAL:HG23	2.15	0.47
1:h:144:LEU:HD12	1:h:208:VAL:HG13	1.96	0.47
1:h:681:GLU:HA	1:i:675:HIS:CE1	2.50	0.47
1:h:713:SER:HA	1:i:704:LYS:HZ2	1.79	0.47
1:j:138:MET:HE2	1:j:138:MET:HA	1.96	0.47
1:j:230:ARG:HG3	1:j:266:GLU:HB3	1.95	0.47
1:k:378:GLN:HA	1:k:407:MET:HE1	1.96	0.47
1:k:523:PHE:HB2	1:k:543:TYR:HB2	1.95	0.47
1:l:794:LYS:HA	1:l:797:GLU:HG3	1.95	0.47
1:m:61:VAL:HG22	1:m:105:LEU:HD12	1.95	0.47
1:A:758:GLU:HA	1:A:761:ARG:HE	1.79	0.47
1:B:56:ARG:HD3	1:C:126:LEU:HB2	1.97	0.47
1:B:395:THR:HG23	1:B:397:LYS:HG2	1.96	0.47
1:D:138:MET:HE2	1:D:138:MET:HA	1.96	0.47
1:E:523:PHE:HB2	1:E:543:TYR:HB2	1.95	0.47
1:F:758:GLU:HA	1:F:761:ARG:HE	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:230:ARG:HG3	1:G:266:GLU:HB3	1.95	0.47
1:I:56:ARG:HD3	1:J:126:LEU:HB2	1.96	0.47
1:L:326:LEU:HB2	1:L:330:GLN:HB2	1.97	0.47
1:L:523:PHE:HB2	1:L:543:TYR:HB2	1.95	0.47
1:L:719:THR:O	1:L:723:LYS:HB3	2.13	0.47
1:L:753:ILE:HG13	1:M:744:ALA:HB1	1.96	0.47
1:N:326:LEU:HB2	1:N:330:GLN:HB2	1.97	0.47
1:N:758:GLU:HA	1:N:761:ARG:HE	1.79	0.47
1:P:338:GLN:OE1	1:P:370:LYS:HG2	2.13	0.47
1:Q:338:GLN:OE1	1:Q:370:LYS:HG2	2.13	0.47
1:R:56:ARG:HD3	1:S:126:LEU:HB2	1.96	0.47
1:S:753:ILE:HG13	1:T:744:ALA:HB1	1.96	0.47
1:V:706:LEU:HD22	1:V:707:LEU:HD22	1.97	0.47
1:W:138:MET:HE2	1:W:138:MET:HA	1.96	0.47
1:W:772:TYR:HE1	1:X:770:LEU:HD23	1.79	0.47
1:X:594:ASN:OD1	1:X:597:ARG:NE	2.46	0.47
1:Y:681:GLU:HA	1:Z:675:HIS:CE1	2.50	0.47
1:Z:758:GLU:HA	1:Z:761:ARG:HE	1.79	0.47
1:b:122:HIS:HB3	1:b:160:VAL:HB	1.95	0.47
1:b:591:PHE:HD1	1:b:598:ILE:HD11	1.78	0.47
1:d:681:GLU:HA	1:e:675:HIS:CE1	2.50	0.47
1:e:56:ARG:HD3	1:f:126:LEU:HB2	1.96	0.47
1:e:575:ILE:O	1:e:579:VAL:HG23	2.15	0.47
1:e:681:GLU:HA	1:f:675:HIS:CE1	2.50	0.47
1:g:326:LEU:HB2	1:g:330:GLN:HB2	1.97	0.47
1:g:543:TYR:HE1	1:g:572:CYS:HA	1.78	0.47
1:i:395:THR:HG23	1:i:397:LYS:HG2	1.96	0.47
1:k:753:ILE:HG13	1:l:744:ALA:HB1	1.96	0.47
1:l:326:LEU:HB2	1:l:330:GLN:HB2	1.97	0.47
1:m:144:LEU:HD12	1:m:208:VAL:HG13	1.96	0.47
1:A:144:LEU:HD12	1:A:208:VAL:HG13	1.96	0.47
1:A:772:TYR:HE1	1:B:770:LEU:HD23	1.79	0.47
1:B:138:MET:HE2	1:B:138:MET:HA	1.96	0.47
1:B:540:GLN:OE1	1:B:641:GLN:NE2	2.47	0.47
1:B:681:GLU:HA	1:C:675:HIS:CE1	2.50	0.47
1:B:753:ILE:HG13	1:C:744:ALA:HB1	1.96	0.47
1:C:534:HIS:O	1:C:534:HIS:CG	2.66	0.47
1:C:575:ILE:O	1:C:579:VAL:HG23	2.15	0.47
1:C:753:ILE:HG13	1:D:744:ALA:HB1	1.96	0.47
1:E:753:ILE:HG13	1:F:744:ALA:HB1	1.96	0.47
1:I:685:ARG:HE	1:I:689:GLU:CD	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:759:LEU:HA	1:J:762:VAL:HG12	1.95	0.47
1:K:395:THR:HG23	1:K:397:LYS:HG2	1.96	0.47
1:L:336:ALA:O	1:L:354:GLY:N	2.45	0.47
1:L:575:ILE:O	1:L:579:VAL:HG23	2.15	0.47
1:M:534:HIS:O	1:M:534:HIS:CG	2.66	0.47
1:Q:665:THR:OG1	1:R:589:ASP:OD2	2.19	0.47
1:Q:706:LEU:HD22	1:Q:707:LEU:HD22	1.97	0.47
1:T:717:GLU:OE2	1:U:707:LEU:HG	2.15	0.47
1:T:794:LYS:HA	1:T:797:GLU:HG3	1.95	0.47
1:U:138:MET:HE2	1:U:138:MET:HA	1.96	0.47
1:U:326:LEU:HB2	1:U:330:GLN:HB2	1.97	0.47
1:U:378:GLN:HA	1:U:407:MET:HE1	1.96	0.47
1:V:336:ALA:HB2	1:V:357:TRP:HZ3	1.78	0.47
1:V:392:ASP:O	1:V:396:GLY:N	2.40	0.47
1:W:56:ARG:HD3	1:X:126:LEU:HB2	1.96	0.47
1:W:392:ASP:O	1:W:396:GLY:N	2.40	0.47
1:X:758:GLU:HA	1:X:761:ARG:HE	1.79	0.47
1:Y:326:LEU:HB2	1:Y:330:GLN:HB2	1.97	0.47
1:Y:336:ALA:HB2	1:Y:357:TRP:HZ3	1.78	0.47
1:Z:395:THR:HG23	1:Z:397:LYS:HG2	1.96	0.47
1:Z:706:LEU:HD22	1:Z:707:LEU:HD22	1.97	0.47
1:b:338:GLN:OE1	1:b:370:LYS:HG2	2.13	0.47
1:b:753:ILE:HG13	1:c:744:ALA:HB1	1.96	0.47
1:c:144:LEU:HD12	1:c:208:VAL:HG13	1.96	0.47
1:d:144:LEU:HD12	1:d:208:VAL:HG13	1.96	0.47
1:d:758:GLU:HA	1:d:761:ARG:HE	1.79	0.47
1:f:138:MET:HA	1:f:138:MET:HE2	1.96	0.47
1:g:395:THR:HG23	1:g:397:LYS:HG2	1.96	0.47
1:h:594:ASN:OD1	1:h:597:ARG:NE	2.46	0.47
1:k:540:GLN:OE1	1:k:641:GLN:NE2	2.47	0.47
1:A:543:TYR:HE1	1:A:572:CYS:HA	1.78	0.47
1:A:575:ILE:O	1:A:579:VAL:HG23	2.15	0.47
1:B:336:ALA:O	1:B:354:GLY:N	2.45	0.47
1:C:56:ARG:HD3	1:D:126:LEU:HB2	1.96	0.47
1:C:128:ASP:HA	1:C:137:VAL:O	2.15	0.47
1:C:681:GLU:HA	1:D:675:HIS:CE1	2.50	0.47
1:C:706:LEU:HD22	1:C:707:LEU:HD22	1.97	0.47
1:E:681:GLU:HA	1:F:675:HIS:CE1	2.50	0.47
1:G:336:ALA:HB2	1:G:357:TRP:HZ3	1.78	0.47
1:G:717:GLU:OE2	1:H:707:LEU:HG	2.15	0.47
1:H:737:GLY:O	1:H:740:SER:OG	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:61:VAL:HG22	1:I:105:LEU:HD12	1.95	0.47
1:I:138:MET:HE2	1:I:138:MET:HA	1.96	0.47
1:I:378:GLN:HA	1:I:407:MET:HE1	1.96	0.47
1:I:681:GLU:HA	1:J:675:HIS:CE1	2.50	0.47
1:I:772:TYR:HE1	1:J:770:LEU:HD23	1.79	0.47
1:J:56:ARG:HD3	1:K:126:LEU:HB2	1.96	0.47
1:J:326:LEU:HB2	1:J:330:GLN:HB2	1.97	0.47
1:J:772:TYR:HE1	1:K:770:LEU:HD23	1.79	0.47
1:K:128:ASP:HA	1:K:137:VAL:O	2.15	0.47
1:K:575:ILE:O	1:K:579:VAL:HG23	2.15	0.47
1:K:681:GLU:HA	1:L:675:HIS:CE1	2.50	0.47
1:K:706:LEU:HD22	1:K:707:LEU:HD22	1.97	0.47
1:K:717:GLU:OE2	1:L:707:LEU:HG	2.15	0.47
1:K:737:GLY:O	1:K:740:SER:OG	2.28	0.47
1:K:753:ILE:HG13	1:L:744:ALA:HB1	1.96	0.47
1:K:758:GLU:HA	1:K:761:ARG:HE	1.79	0.47
1:L:395:THR:HG23	1:L:397:LYS:HG2	1.96	0.47
1:L:681:GLU:HA	1:M:675:HIS:CE1	2.50	0.47
1:L:706:LEU:HD22	1:L:707:LEU:HD22	1.97	0.47
1:N:138:MET:HE2	1:N:138:MET:HA	1.96	0.47
1:N:378:GLN:HA	1:N:407:MET:HE1	1.96	0.47
1:N:458:VAL:HG23	1:N:489:LEU:HB2	1.97	0.47
1:N:681:GLU:HA	1:O:675:HIS:CE1	2.50	0.47
1:O:326:LEU:HB2	1:O:330:GLN:HB2	1.97	0.47
1:O:336:ALA:O	1:O:354:GLY:N	2.45	0.47
1:O:378:GLN:HA	1:O:407:MET:HE1	1.96	0.47
1:O:794:LYS:HA	1:O:797:GLU:HG3	1.95	0.47
1:P:61:VAL:HG22	1:P:105:LEU:HD12	1.95	0.47
1:P:543:TYR:HE1	1:P:572:CYS:HA	1.78	0.47
1:P:777:LEU:HA	1:P:780:GLU:OE1	2.15	0.47
1:P:802:LEU:HD22	1:P:807:ILE:HG23	1.97	0.47
1:Q:326:LEU:HB2	1:Q:330:GLN:HB2	1.97	0.47
1:Q:395:THR:HG23	1:Q:397:LYS:HG2	1.96	0.47
1:R:681:GLU:HA	1:S:675:HIS:CE1	2.50	0.47
1:R:717:GLU:OE2	1:S:707:LEU:HG	2.15	0.47
1:R:753:ILE:HG13	1:S:744:ALA:HB1	1.96	0.47
1:S:138:MET:HA	1:S:138:MET:HE2	1.96	0.47
1:S:706:LEU:HD22	1:S:707:LEU:HD22	1.97	0.47
1:S:758:GLU:HA	1:S:761:ARG:HE	1.79	0.47
1:T:338:GLN:OE1	1:T:370:LYS:HG2	2.13	0.47
1:T:802:LEU:HD22	1:T:807:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:128:ASP:HA	1:U:137:VAL:O	2.15	0.47
1:U:144:LEU:HD12	1:U:208:VAL:HG13	1.96	0.47
1:U:717:GLU:OE2	1:V:707:LEU:HG	2.15	0.47
1:U:759:LEU:HA	1:U:762:VAL:HG12	1.95	0.47
1:U:777:LEU:HA	1:U:780:GLU:OE1	2.15	0.47
1:V:575:ILE:O	1:V:579:VAL:HG23	2.15	0.47
1:V:777:LEU:HA	1:V:780:GLU:OE1	2.15	0.47
1:W:128:ASP:HA	1:W:137:VAL:O	2.15	0.47
1:W:534:HIS:O	1:W:534:HIS:CG	2.66	0.47
1:W:753:ILE:HG13	1:X:744:ALA:HB1	1.96	0.47
1:W:794:LYS:HA	1:W:797:GLU:HG3	1.95	0.47
1:Y:523:PHE:HB2	1:Y:543:TYR:HB2	1.95	0.47
1:Y:706:LEU:HD22	1:Y:707:LEU:HD22	1.97	0.47
1:Y:777:LEU:HA	1:Y:780:GLU:OE1	2.15	0.47
1:Z:336:ALA:HB2	1:Z:357:TRP:HZ3	1.78	0.47
1:Z:575:ILE:O	1:Z:579:VAL:HG23	2.15	0.47
1:a:378:GLN:HA	1:a:407:MET:HE1	1.96	0.47
1:a:523:PHE:HB2	1:a:543:TYR:HB2	1.95	0.47
1:a:758:GLU:HA	1:a:761:ARG:HE	1.79	0.47
1:b:326:LEU:HB2	1:b:330:GLN:HB2	1.97	0.47
1:b:575:ILE:O	1:b:579:VAL:HG23	2.15	0.47
1:b:758:GLU:HA	1:b:761:ARG:HE	1.79	0.47
1:c:706:LEU:HD22	1:c:707:LEU:HD22	1.97	0.47
1:c:802:LEU:HD22	1:c:807:ILE:HG23	1.97	0.47
1:d:138:MET:HE2	1:d:138:MET:HA	1.96	0.47
1:e:128:ASP:HA	1:e:137:VAL:O	2.15	0.47
1:e:138:MET:HE2	1:e:138:MET:HA	1.96	0.47
1:e:540:GLN:OE1	1:e:641:GLN:NE2	2.47	0.47
1:f:338:GLN:OE1	1:f:370:LYS:HG2	2.13	0.47
1:f:591:PHE:HD1	1:f:598:ILE:HD11	1.78	0.47
1:f:717:GLU:OE2	1:g:707:LEU:HG	2.15	0.47
1:f:801:ALA:HB3	1:g:796:LYS:HZ3	1.79	0.47
1:g:128:ASP:HA	1:g:137:VAL:O	2.15	0.47
1:g:523:PHE:HB2	1:g:543:TYR:HB2	1.95	0.47
1:g:777:LEU:HA	1:g:780:GLU:OE1	2.15	0.47
1:h:230:ARG:HG3	1:h:266:GLU:HB3	1.95	0.47
1:h:777:LEU:HA	1:h:780:GLU:OE1	2.15	0.47
1:h:794:LYS:HA	1:h:797:GLU:HG3	1.95	0.47
1:i:717:GLU:OE2	1:j:707:LEU:HG	2.15	0.47
1:i:758:GLU:HA	1:i:761:ARG:HE	1.79	0.47
1:i:772:TYR:HE1	1:j:770:LEU:HD23	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:122:HIS:HB3	1:j:160:VAL:HB	1.95	0.47
1:j:540:GLN:OE1	1:j:641:GLN:NE2	2.47	0.47
1:j:594:ASN:OD1	1:j:597:ARG:NE	2.46	0.47
1:k:326:LEU:HB2	1:k:330:GLN:HB2	1.97	0.47
1:k:575:ILE:O	1:k:579:VAL:HG23	2.15	0.47
1:k:681:GLU:HA	1:l:675:HIS:CE1	2.50	0.47
1:k:717:GLU:OE2	1:l:707:LEU:HG	2.15	0.47
1:l:56:ARG:HD3	1:m:126:LEU:HB2	1.97	0.47
1:l:392:ASP:O	1:l:396:GLY:N	2.40	0.47
1:l:458:VAL:HG23	1:l:489:LEU:HB2	1.97	0.47
1:m:128:ASP:HA	1:m:137:VAL:O	2.15	0.47
1:m:575:ILE:O	1:m:579:VAL:HG23	2.15	0.47
1:A:128:ASP:HA	1:A:137:VAL:O	2.15	0.47
1:A:336:ALA:O	1:A:354:GLY:N	2.45	0.47
1:A:392:ASP:O	1:A:396:GLY:N	2.40	0.47
1:A:540:GLN:OE1	1:A:641:GLN:NE2	2.47	0.47
1:B:458:VAL:HG23	1:B:489:LEU:HB2	1.97	0.47
1:B:802:LEU:HD22	1:B:807:ILE:HG23	1.97	0.47
1:C:326:LEU:HB2	1:C:330:GLN:HB2	1.97	0.47
1:C:717:GLU:OE2	1:D:707:LEU:HG	2.15	0.47
1:D:230:ARG:HG3	1:D:266:GLU:HB3	1.95	0.47
1:D:575:ILE:O	1:D:579:VAL:HG23	2.15	0.47
1:E:326:LEU:HB2	1:E:330:GLN:HB2	1.97	0.47
1:E:575:ILE:O	1:E:579:VAL:HG23	2.15	0.47
1:J:458:VAL:HG23	1:J:489:LEU:HB2	1.97	0.47
1:M:717:GLU:OE2	1:N:707:LEU:HG	2.15	0.47
1:M:764:LYS:HG3	1:N:759:LEU:HD11	1.97	0.47
1:O:706:LEU:HD22	1:O:707:LEU:HD22	1.97	0.47
1:O:743:GLN:N	1:P:734:ARG:HH12	2.13	0.47
1:P:395:THR:HG23	1:P:397:LYS:HG2	1.96	0.47
1:Q:128:ASP:HA	1:Q:137:VAL:O	2.15	0.47
1:S:743:GLN:N	1:T:734:ARG:HH12	2.13	0.47
1:T:743:GLN:N	1:U:734:ARG:HH12	2.13	0.47
1:V:138:MET:HE2	1:V:138:MET:HA	1.96	0.47
1:W:758:GLU:HA	1:W:761:ARG:HE	1.79	0.47
1:W:802:LEU:HD22	1:W:807:ILE:HG23	1.97	0.47
1:X:138:MET:HE2	1:X:138:MET:HA	1.96	0.47
1:X:543:TYR:HE1	1:X:572:CYS:HA	1.78	0.47
1:a:575:ILE:O	1:a:579:VAL:HG23	2.15	0.47
1:c:338:GLN:OE1	1:c:370:LYS:HG2	2.13	0.47
1:c:453:ASN:OD1	1:c:455:THR:OG1	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:575:ILE:O	1:d:579:VAL:HG23	2.15	0.47
1:d:772:TYR:HE1	1:e:770:LEU:HD23	1.79	0.47
1:e:758:GLU:HA	1:e:761:ARG:HE	1.80	0.47
1:e:802:LEU:HD22	1:e:807:ILE:HG23	1.97	0.47
1:g:717:GLU:OE2	1:h:707:LEU:HG	2.15	0.47
1:g:753:ILE:HG13	1:h:744:ALA:HB1	1.96	0.47
1:h:717:GLU:OE2	1:i:707:LEU:HG	2.15	0.47
1:i:378:GLN:HA	1:i:407:MET:HE1	1.96	0.47
1:j:575:ILE:O	1:j:579:VAL:HG23	2.15	0.47
1:k:458:VAL:HG23	1:k:489:LEU:HB2	1.97	0.47
1:k:802:LEU:HD22	1:k:807:ILE:HG23	1.97	0.47
1:l:144:LEU:HD12	1:l:208:VAL:HG13	1.96	0.47
1:l:540:GLN:OE1	1:l:641:GLN:NE2	2.47	0.47
1:l:717:GLU:OE2	1:m:707:LEU:HG	2.15	0.47
1:m:395:THR:HG23	1:m:397:LYS:HG2	1.96	0.47
1:m:770:LEU:HB2	1:m:774:ARG:NH1	2.22	0.47
1:m:777:LEU:HA	1:m:780:GLU:OE1	2.15	0.47
1:A:378:GLN:HA	1:A:407:MET:HE1	1.96	0.47
1:A:753:ILE:HG13	1:B:744:ALA:HB1	1.96	0.47
1:B:378:GLN:HA	1:B:407:MET:HE1	1.96	0.47
1:B:743:GLN:N	1:C:734:ARG:HH12	2.13	0.47
1:C:743:GLN:N	1:D:734:ARG:HH12	2.13	0.47
1:D:681:GLU:HA	1:E:675:HIS:CE1	2.50	0.47
1:E:802:LEU:HD22	1:E:807:ILE:HG23	1.97	0.47
1:F:458:VAL:HG23	1:F:489:LEU:HB2	1.97	0.47
1:G:144:LEU:HD12	1:G:208:VAL:HG13	1.96	0.47
1:G:326:LEU:HB2	1:G:330:GLN:HB2	1.97	0.47
1:G:753:ILE:HG13	1:H:744:ALA:HB1	1.96	0.47
1:G:758:GLU:HA	1:G:761:ARG:HE	1.79	0.47
1:G:770:LEU:HB2	1:G:774:ARG:NH1	2.22	0.47
1:H:128:ASP:HA	1:H:137:VAL:O	2.15	0.47
1:H:378:GLN:HA	1:H:407:MET:HE1	1.96	0.47
1:H:681:GLU:HA	1:I:675:HIS:CE1	2.50	0.47
1:J:128:ASP:HA	1:J:137:VAL:O	2.15	0.47
1:J:378:GLN:HA	1:J:407:MET:HE1	1.96	0.47
1:J:534:HIS:CG	1:J:534:HIS:O	2.66	0.47
1:J:758:GLU:HA	1:J:761:ARG:HE	1.79	0.47
1:L:336:ALA:HB2	1:L:357:TRP:HZ3	1.78	0.47
1:M:56:ARG:HD3	1:N:126:LEU:HB2	1.97	0.47
1:M:681:GLU:HA	1:N:675:HIS:CE1	2.49	0.47
1:Q:802:LEU:HD22	1:Q:807:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:144:LEU:HD12	1:R:208:VAL:HG13	1.96	0.47
1:R:772:TYR:HE1	1:S:770:LEU:HD23	1.79	0.47
1:S:144:LEU:HD12	1:S:208:VAL:HG13	1.96	0.47
1:S:681:GLU:HA	1:T:675:HIS:CE1	2.50	0.47
1:T:326:LEU:HB2	1:T:330:GLN:HB2	1.97	0.47
1:T:575:ILE:O	1:T:579:VAL:HG23	2.15	0.47
1:T:764:LYS:HG3	1:U:759:LEU:HD11	1.97	0.47
1:V:326:LEU:HB2	1:V:330:GLN:HB2	1.97	0.47
1:W:681:GLU:HA	1:X:675:HIS:CE1	2.50	0.47
1:X:717:GLU:OE2	1:Y:707:LEU:HG	2.15	0.47
1:X:802:LEU:HD22	1:X:807:ILE:HG23	1.97	0.47
1:Y:128:ASP:HA	1:Y:137:VAL:O	2.15	0.47
1:Y:764:LYS:HG3	1:Z:759:LEU:HD11	1.97	0.47
1:Z:378:GLN:HA	1:Z:407:MET:HE1	1.96	0.47
1:Z:717:GLU:OE2	1:a:707:LEU:HG	2.15	0.47
1:b:128:ASP:HA	1:b:137:VAL:O	2.15	0.47
1:c:575:ILE:O	1:c:579:VAL:HG23	2.15	0.47
1:c:681:GLU:HA	1:d:675:HIS:CE1	2.50	0.47
1:c:753:ILE:HG13	1:d:744:ALA:HB1	1.96	0.47
1:d:777:LEU:HA	1:d:780:GLU:OE1	2.15	0.47
1:e:706:LEU:HD22	1:e:707:LEU:HD22	1.97	0.47
1:e:779:LEU:HD11	1:f:777:LEU:CD2	2.41	0.47
1:f:575:ILE:O	1:f:579:VAL:HG23	2.15	0.47
1:h:758:GLU:HA	1:h:761:ARG:HE	1.79	0.47
1:i:764:LYS:HG3	1:j:759:LEU:HD11	1.97	0.47
1:j:743:GLN:N	1:k:734:ARG:HH12	2.13	0.47
1:j:777:LEU:HA	1:j:780:GLU:OE1	2.15	0.47
1:k:777:LEU:HA	1:k:780:GLU:OE1	2.15	0.47
1:l:138:MET:HE2	1:l:138:MET:HA	1.96	0.47
1:l:743:GLN:N	1:m:734:ARG:HH12	2.13	0.47
1:m:540:GLN:OE1	1:m:641:GLN:NE2	2.47	0.47
1:A:707:LEU:HG	1:m:717:GLU:OE2	2.15	0.47
1:B:326:LEU:HB2	1:B:330:GLN:HB2	1.97	0.47
1:B:717:GLU:OE2	1:C:707:LEU:HG	2.15	0.47
1:C:336:ALA:HB2	1:C:357:TRP:HZ3	1.78	0.47
1:E:128:ASP:HA	1:E:137:VAL:O	2.15	0.47
1:E:594:ASN:OD1	1:E:597:ARG:NE	2.46	0.47
1:F:681:GLU:HA	1:G:675:HIS:CE1	2.50	0.47
1:F:794:LYS:HA	1:F:797:GLU:HG3	1.95	0.47
1:G:128:ASP:HA	1:G:137:VAL:O	2.15	0.47
1:H:395:THR:HG23	1:H:397:LYS:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:743:GLN:N	1:I:734:ARG:HH12	2.13	0.47
1:H:764:LYS:HG3	1:I:759:LEU:HD11	1.97	0.47
1:H:777:LEU:HA	1:H:780:GLU:OE1	2.15	0.47
1:I:395:THR:HG23	1:I:397:LYS:HG2	1.96	0.47
1:I:453:ASN:OD1	1:I:455:THR:OG1	2.24	0.47
1:I:706:LEU:HD22	1:I:707:LEU:HD22	1.97	0.47
1:J:575:ILE:O	1:J:579:VAL:HG23	2.15	0.47
1:K:145:PHE:CE2	1:K:151:TYR:HB2	2.50	0.47
1:K:802:LEU:HD22	1:K:807:ILE:HG23	1.97	0.47
1:L:458:VAL:HG23	1:L:489:LEU:HB2	1.97	0.47
1:L:764:LYS:HG3	1:M:759:LEU:HD11	1.97	0.47
1:N:108:ASP:N	1:N:108:ASP:OD1	2.49	0.47
1:N:717:GLU:OE2	1:O:707:LEU:HG	2.15	0.47
1:N:743:GLN:N	1:O:734:ARG:HH12	2.13	0.47
1:N:777:LEU:HA	1:N:780:GLU:OE1	2.15	0.47
1:O:758:GLU:HA	1:O:761:ARG:HE	1.79	0.47
1:P:326:LEU:HB2	1:P:330:GLN:HB2	1.97	0.47
1:P:378:GLN:HA	1:P:407:MET:HE1	1.96	0.47
1:Q:717:GLU:OE2	1:R:707:LEU:HG	2.15	0.47
1:S:128:ASP:HA	1:S:137:VAL:O	2.15	0.47
1:S:145:PHE:CE2	1:S:151:TYR:HB2	2.50	0.47
1:S:543:TYR:HE1	1:S:572:CYS:HA	1.78	0.47
1:S:770:LEU:HB2	1:S:774:ARG:NH1	2.22	0.47
1:T:128:ASP:HA	1:T:137:VAL:O	2.15	0.47
1:U:764:LYS:HG3	1:V:759:LEU:HD11	1.97	0.47
1:Y:395:THR:HG23	1:Y:397:LYS:HG2	1.96	0.47
1:Z:138:MET:HE2	1:Z:138:MET:HA	1.96	0.47
1:Z:777:LEU:HA	1:Z:780:GLU:OE1	2.15	0.47
1:a:128:ASP:HA	1:a:137:VAL:O	2.15	0.47
1:c:56:ARG:HD3	1:d:126:LEU:HB2	1.96	0.47
1:c:326:LEU:HB2	1:c:330:GLN:HB2	1.97	0.47
1:c:717:GLU:OE2	1:d:707:LEU:HG	2.15	0.47
1:d:717:GLU:OE2	1:e:707:LEU:HG	2.15	0.47
1:d:802:LEU:HD22	1:d:807:ILE:HG23	1.97	0.47
1:f:395:THR:HG23	1:f:397:LYS:HG2	1.96	0.47
1:f:802:LEU:HD22	1:f:807:ILE:HG23	1.97	0.47
1:i:663:GLU:O	1:i:666:THR:OG1	2.26	0.47
1:i:681:GLU:HA	1:j:675:HIS:CE1	2.50	0.47
1:k:56:ARG:HD3	1:l:126:LEU:HB2	1.96	0.47
1:k:743:GLN:N	1:l:734:ARG:HH12	2.13	0.47
1:l:772:TYR:HE1	1:m:770:LEU:HD23	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:759:LEU:HD11	1:m:764:LYS:HG3	1.97	0.46
1:B:145:PHE:CE2	1:B:151:TYR:HB2	2.50	0.46
1:B:575:ILE:O	1:B:579:VAL:HG23	2.15	0.46
1:C:56:ARG:HD3	1:D:126:LEU:CB	2.46	0.46
1:C:777:LEU:HA	1:C:780:GLU:OE1	2.15	0.46
1:D:764:LYS:HG3	1:E:759:LEU:HD11	1.97	0.46
1:D:802:LEU:HD22	1:D:807:ILE:HG23	1.97	0.46
1:E:108:ASP:OD1	1:E:108:ASP:N	2.48	0.46
1:E:717:GLU:OE2	1:F:707:LEU:HG	2.15	0.46
1:F:128:ASP:HA	1:F:137:VAL:O	2.15	0.46
1:G:145:PHE:CE2	1:G:151:TYR:HB2	2.51	0.46
1:I:717:GLU:OE2	1:J:707:LEU:HG	2.15	0.46
1:I:743:GLN:N	1:J:734:ARG:HH12	2.13	0.46
1:I:764:LYS:HG3	1:J:759:LEU:HD11	1.97	0.46
1:I:794:LYS:HA	1:I:797:GLU:HG3	1.95	0.46
1:K:777:LEU:HA	1:K:780:GLU:OE1	2.15	0.46
1:L:758:GLU:HA	1:L:761:ARG:HE	1.79	0.46
1:L:802:LEU:HD22	1:L:807:ILE:HG23	1.97	0.46
1:M:138:MET:HE2	1:M:138:MET:HA	1.96	0.46
1:M:777:LEU:HA	1:M:780:GLU:OE1	2.15	0.46
1:N:706:LEU:HD22	1:N:707:LEU:HD22	1.97	0.46
1:O:671:ALA:HA	1:O:674:LYS:HZ3	1.80	0.46
1:P:145:PHE:CE2	1:P:151:TYR:HB2	2.50	0.46
1:R:458:VAL:HG23	1:R:489:LEU:HB2	1.97	0.46
1:R:743:GLN:N	1:S:734:ARG:HH12	2.13	0.46
1:U:395:THR:HG23	1:U:397:LYS:HG2	1.96	0.46
1:U:743:GLN:N	1:V:734:ARG:HH12	2.13	0.46
1:V:458:VAL:HG23	1:V:489:LEU:HB2	1.97	0.46
1:W:11:PRO:HD2	1:W:14:HIS:HB2	1.95	0.46
1:X:336:ALA:O	1:X:354:GLY:N	2.45	0.46
1:X:534:HIS:O	1:X:534:HIS:CG	2.66	0.46
1:Z:458:VAL:HG23	1:Z:489:LEU:HB2	1.97	0.46
1:a:56:ARG:HD3	1:b:126:LEU:HB2	1.96	0.46
1:a:717:GLU:OE2	1:b:707:LEU:HG	2.15	0.46
1:d:145:PHE:CE2	1:d:151:TYR:HB2	2.51	0.46
1:e:145:PHE:CE2	1:e:151:TYR:HB2	2.50	0.46
1:f:540:GLN:OE1	1:f:641:GLN:NE2	2.47	0.46
1:f:681:GLU:HA	1:g:675:HIS:CE1	2.50	0.46
1:g:681:GLU:HA	1:h:675:HIS:CE1	2.49	0.46
1:g:758:GLU:HA	1:g:761:ARG:HE	1.79	0.46
1:g:802:LEU:HD22	1:g:807:ILE:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:56:ARG:HD3	1:i:126:LEU:CB	2.46	0.46
1:h:145:PHE:CE2	1:h:151:TYR:HB2	2.51	0.46
1:h:575:ILE:O	1:h:579:VAL:HG23	2.15	0.46
1:i:145:PHE:CE2	1:i:151:TYR:HB2	2.51	0.46
1:i:743:GLN:N	1:j:734:ARG:HH12	2.13	0.46
1:j:458:VAL:HG23	1:j:489:LEU:HB2	1.97	0.46
1:j:802:LEU:HD22	1:j:807:ILE:HG23	1.97	0.46
1:l:758:GLU:HA	1:l:761:ARG:HE	1.79	0.46
1:m:326:LEU:HB2	1:m:330:GLN:HB2	1.97	0.46
1:A:734:ARG:HH12	1:m:743:GLN:N	2.13	0.46
1:B:56:ARG:HD3	1:C:126:LEU:CB	2.46	0.46
1:C:145:PHE:CE2	1:C:151:TYR:HB2	2.50	0.46
1:D:108:ASP:N	1:D:108:ASP:OD1	2.49	0.46
1:D:706:LEU:HD22	1:D:707:LEU:HD22	1.97	0.46
1:E:56:ARG:HD3	1:F:126:LEU:HB2	1.96	0.46
1:E:378:GLN:HA	1:E:407:MET:HE1	1.96	0.46
1:E:777:LEU:HA	1:E:780:GLU:OE1	2.15	0.46
1:I:144:LEU:HD12	1:I:208:VAL:HG13	1.96	0.46
1:J:56:ARG:HD3	1:K:126:LEU:CB	2.46	0.46
1:J:145:PHE:CE2	1:J:151:TYR:HB2	2.50	0.46
1:J:681:GLU:HA	1:K:675:HIS:CE1	2.50	0.46
1:J:717:GLU:OE2	1:K:707:LEU:HG	2.15	0.46
1:J:743:GLN:N	1:K:734:ARG:HH12	2.13	0.46
1:J:777:LEU:HA	1:J:780:GLU:OE1	2.15	0.46
1:M:128:ASP:HA	1:M:137:VAL:O	2.15	0.46
1:M:144:LEU:HD12	1:M:208:VAL:HG13	1.96	0.46
1:N:145:PHE:CE2	1:N:151:TYR:HB2	2.50	0.46
1:N:764:LYS:HG3	1:O:759:LEU:HD11	1.97	0.46
1:O:56:ARG:HD3	1:P:126:LEU:CB	2.45	0.46
1:P:743:GLN:N	1:Q:734:ARG:HH12	2.13	0.46
1:Q:108:ASP:N	1:Q:108:ASP:OD1	2.49	0.46
1:Q:777:LEU:HA	1:Q:780:GLU:OE1	2.15	0.46
1:R:56:ARG:HD3	1:S:126:LEU:CB	2.46	0.46
1:R:138:MET:HE2	1:R:138:MET:HA	1.96	0.46
1:S:777:LEU:HA	1:S:780:GLU:OE1	2.15	0.46
1:T:777:LEU:HA	1:T:780:GLU:OE1	2.15	0.46
1:U:145:PHE:CE2	1:U:151:TYR:HB2	2.50	0.46
1:V:56:ARG:HD3	1:W:126:LEU:CB	2.46	0.46
1:W:706:LEU:HD22	1:W:707:LEU:HD22	1.97	0.46
1:X:575:ILE:O	1:X:579:VAL:HG23	2.15	0.46
1:Y:458:VAL:HG23	1:Y:489:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:144:LEU:HD12	1:Z:208:VAL:HG13	1.96	0.46
1:Z:145:PHE:CE2	1:Z:151:TYR:HB2	2.50	0.46
1:a:56:ARG:HD3	1:b:126:LEU:CB	2.46	0.46
1:a:772:TYR:HE1	1:b:770:LEU:HD23	1.79	0.46
1:b:717:GLU:OE2	1:c:707:LEU:HG	2.15	0.46
1:b:802:LEU:HD22	1:b:807:ILE:HG23	1.97	0.46
1:d:128:ASP:HA	1:d:137:VAL:O	2.15	0.46
1:e:326:LEU:HB2	1:e:330:GLN:HB2	1.97	0.46
1:e:777:LEU:HA	1:e:780:GLU:OE1	2.15	0.46
1:f:56:ARG:HD3	1:g:126:LEU:HB2	1.96	0.46
1:f:144:LEU:HD12	1:f:208:VAL:HG13	1.96	0.46
1:h:770:LEU:HB2	1:h:774:ARG:NH1	2.22	0.46
1:i:56:ARG:HD3	1:j:126:LEU:HB2	1.96	0.46
1:i:128:ASP:HA	1:i:137:VAL:O	2.15	0.46
1:i:326:LEU:HB2	1:i:330:GLN:HB2	1.97	0.46
1:k:706:LEU:HD22	1:k:707:LEU:HD22	1.97	0.46
1:k:758:GLU:HA	1:k:761:ARG:HE	1.79	0.46
1:l:378:GLN:HA	1:l:407:MET:HE1	1.96	0.46
1:A:777:LEU:HA	1:A:780:GLU:OE1	2.15	0.46
1:D:743:GLN:N	1:E:734:ARG:HH12	2.13	0.46
1:E:706:LEU:HD22	1:E:707:LEU:HD22	1.97	0.46
1:F:144:LEU:HD12	1:F:208:VAL:HG13	1.96	0.46
1:F:575:ILE:O	1:F:579:VAL:HG23	2.15	0.46
1:F:777:LEU:HA	1:F:780:GLU:OE1	2.15	0.46
1:G:764:LYS:HG3	1:H:759:LEU:HD11	1.97	0.46
1:G:772:TYR:HE1	1:H:770:LEU:HD23	1.79	0.46
1:I:145:PHE:CE2	1:I:151:TYR:HB2	2.50	0.46
1:I:777:LEU:HA	1:I:780:GLU:OE1	2.15	0.46
1:K:138:MET:HA	1:K:138:MET:HE2	1.96	0.46
1:L:128:ASP:HA	1:L:137:VAL:O	2.15	0.46
1:M:378:GLN:HA	1:M:407:MET:HE1	1.96	0.46
1:M:543:TYR:HE1	1:M:572:CYS:HA	1.78	0.46
1:N:128:ASP:HA	1:N:137:VAL:O	2.15	0.46
1:O:145:PHE:CE2	1:O:151:TYR:HB2	2.50	0.46
1:O:777:LEU:HA	1:O:780:GLU:OE1	2.15	0.46
1:P:706:LEU:HD22	1:P:707:LEU:HD22	1.97	0.46
1:R:128:ASP:HA	1:R:137:VAL:O	2.15	0.46
1:T:144:LEU:HD12	1:T:208:VAL:HG13	1.96	0.46
1:V:717:GLU:OE2	1:W:707:LEU:HG	2.15	0.46
1:V:743:GLN:N	1:W:734:ARG:HH12	2.13	0.46
1:W:108:ASP:N	1:W:108:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:777:LEU:HA	1:W:780:GLU:OE1	2.15	0.46
1:Y:138:MET:HE2	1:Y:138:MET:HA	1.96	0.46
1:a:326:LEU:HB2	1:a:330:GLN:HB2	1.97	0.46
1:a:802:LEU:HD22	1:a:807:ILE:HG23	1.97	0.46
1:b:56:ARG:HD3	1:c:126:LEU:CB	2.46	0.46
1:b:56:ARG:HD3	1:c:126:LEU:HB2	1.97	0.46
1:b:145:PHE:CE2	1:b:151:TYR:HB2	2.51	0.46
1:b:594:ASN:OD1	1:b:597:ARG:NE	2.46	0.46
1:c:128:ASP:HA	1:c:137:VAL:O	2.15	0.46
1:h:753:ILE:HG13	1:i:744:ALA:HB1	1.96	0.46
1:i:706:LEU:HD22	1:i:707:LEU:HD22	1.97	0.46
1:i:737:GLY:O	1:i:740:SER:OG	2.28	0.46
1:j:395:THR:HG23	1:j:397:LYS:HG2	1.96	0.46
1:k:772:TYR:HE1	1:l:770:LEU:HD23	1.79	0.46
1:l:706:LEU:HD22	1:l:707:LEU:HD22	1.97	0.46
1:l:802:LEU:HD22	1:l:807:ILE:HG23	1.97	0.46
1:A:326:LEU:HB2	1:A:330:GLN:HB2	1.97	0.46
1:A:764:LYS:HG3	1:B:759:LEU:HD11	1.97	0.46
1:B:108:ASP:OD1	1:B:108:ASP:N	2.49	0.46
1:C:347:GLU:HG2	1:C:349:VAL:H	1.81	0.46
1:C:663:GLU:O	1:C:666:THR:OG1	2.26	0.46
1:D:128:ASP:HA	1:D:137:VAL:O	2.15	0.46
1:D:758:GLU:HA	1:D:761:ARG:HE	1.79	0.46
1:D:772:TYR:HE1	1:E:770:LEU:HD23	1.79	0.46
1:D:777:LEU:HA	1:D:780:GLU:OE1	2.15	0.46
1:E:458:VAL:HG23	1:E:489:LEU:HB2	1.97	0.46
1:F:395:THR:HG23	1:F:397:LYS:HG2	1.96	0.46
1:F:802:LEU:HD22	1:F:807:ILE:HG23	1.97	0.46
1:G:395:THR:HG23	1:G:397:LYS:HG2	1.96	0.46
1:G:743:GLN:N	1:H:734:ARG:HH12	2.13	0.46
1:I:802:LEU:HD22	1:I:807:ILE:HG23	1.97	0.46
1:J:764:LYS:HG3	1:K:759:LEU:HD11	1.97	0.46
1:L:56:ARG:HD3	1:M:126:LEU:CB	2.45	0.46
1:L:772:TYR:HE1	1:M:770:LEU:HD23	1.79	0.46
1:M:575:ILE:O	1:M:579:VAL:HG23	2.15	0.46
1:N:395:THR:HG23	1:N:397:LYS:HG2	1.96	0.46
1:N:753:ILE:HG13	1:O:744:ALA:HB1	1.96	0.46
1:O:128:ASP:HA	1:O:137:VAL:O	2.15	0.46
1:O:395:THR:HG23	1:O:397:LYS:HG2	1.96	0.46
1:R:764:LYS:HG3	1:S:759:LEU:HD11	1.97	0.46
1:S:575:ILE:O	1:S:579:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:378:GLN:HA	1:V:407:MET:HE1	1.96	0.46
1:X:326:LEU:HB2	1:X:330:GLN:HB2	1.97	0.46
1:X:392:ASP:O	1:X:396:GLY:N	2.40	0.46
1:X:665:THR:OG1	1:Y:589:ASP:OD2	2.19	0.46
1:X:681:GLU:HA	1:Y:675:HIS:CE1	2.50	0.46
1:X:764:LYS:HG3	1:Y:759:LEU:HD11	1.97	0.46
1:X:777:LEU:HA	1:X:780:GLU:OE1	2.15	0.46
1:Y:378:GLN:HA	1:Y:407:MET:HE1	1.96	0.46
1:Y:717:GLU:OE2	1:Z:707:LEU:HG	2.15	0.46
1:a:594:ASN:OD1	1:a:597:ARG:NE	2.46	0.46
1:c:56:ARG:HD3	1:d:126:LEU:CB	2.46	0.46
1:c:395:THR:HG23	1:c:397:LYS:HG2	1.96	0.46
1:e:56:ARG:HD3	1:f:126:LEU:CB	2.46	0.46
1:f:56:ARG:HD3	1:g:126:LEU:CB	2.45	0.46
1:g:56:ARG:HD3	1:h:126:LEU:HB2	1.96	0.46
1:g:144:LEU:HD12	1:g:208:VAL:HG13	1.96	0.46
1:g:392:ASP:O	1:g:396:GLY:N	2.40	0.46
1:h:108:ASP:OD1	1:h:108:ASP:N	2.48	0.46
1:h:347:GLU:HG2	1:h:349:VAL:H	1.81	0.46
1:i:56:ARG:HD3	1:j:126:LEU:CB	2.46	0.46
1:j:128:ASP:HA	1:j:137:VAL:O	2.15	0.46
1:j:717:GLU:OE2	1:k:707:LEU:HG	2.15	0.46
1:l:56:ARG:HD3	1:m:126:LEU:CB	2.46	0.46
1:A:126:LEU:CB	1:m:56:ARG:HD3	2.45	0.46
1:A:138:MET:HE2	1:A:138:MET:HA	1.96	0.46
1:A:145:PHE:CE2	1:A:151:TYR:HB2	2.50	0.46
1:A:347:GLU:HG2	1:A:349:VAL:H	1.81	0.46
1:A:717:GLU:OE2	1:B:707:LEU:HG	2.15	0.46
1:A:770:LEU:HD23	1:m:772:TYR:HE1	1.79	0.46
1:C:336:ALA:O	1:C:354:GLY:N	2.45	0.46
1:D:336:ALA:O	1:D:354:GLY:N	2.45	0.46
1:D:717:GLU:OE2	1:E:707:LEU:HG	2.15	0.46
1:E:138:MET:HE2	1:E:138:MET:HA	1.96	0.46
1:E:145:PHE:CE2	1:E:151:TYR:HB2	2.51	0.46
1:F:56:ARG:HD3	1:G:126:LEU:CB	2.46	0.46
1:F:145:PHE:CE2	1:F:151:TYR:HB2	2.50	0.46
1:F:540:GLN:OE1	1:F:641:GLN:NE2	2.47	0.46
1:F:594:ASN:OD1	1:F:597:ARG:NE	2.46	0.46
1:G:458:VAL:HG23	1:G:489:LEU:HB2	1.97	0.46
1:G:534:HIS:O	1:G:534:HIS:CG	2.66	0.46
1:G:706:LEU:HD22	1:G:707:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:56:ARG:HD3	1:I:126:LEU:CB	2.46	0.46
1:J:138:MET:HE2	1:J:138:MET:HA	1.96	0.46
1:K:743:GLN:N	1:L:734:ARG:HH12	2.13	0.46
1:L:717:GLU:OE2	1:M:707:LEU:HG	2.15	0.46
1:M:108:ASP:OD1	1:M:108:ASP:N	2.49	0.46
1:M:326:LEU:HB2	1:M:330:GLN:HB2	1.97	0.46
1:O:108:ASP:N	1:O:108:ASP:OD1	2.49	0.46
1:O:575:ILE:O	1:O:579:VAL:HG23	2.15	0.46
1:O:717:GLU:OE2	1:P:707:LEU:HG	2.15	0.46
1:P:681:GLU:HA	1:Q:675:HIS:CE1	2.50	0.46
1:Q:764:LYS:HG3	1:R:759:LEU:HD11	1.97	0.46
1:R:145:PHE:CE2	1:R:151:TYR:HB2	2.51	0.46
1:R:378:GLN:HA	1:R:407:MET:HE1	1.96	0.46
1:S:717:GLU:OE2	1:T:707:LEU:HG	2.15	0.46
1:U:681:GLU:HA	1:V:675:HIS:CE1	2.50	0.46
1:V:145:PHE:CE2	1:V:151:TYR:HB2	2.50	0.46
1:W:347:GLU:HG2	1:W:349:VAL:H	1.81	0.46
1:W:594:ASN:HA	1:W:597:ARG:NH2	2.31	0.46
1:X:56:ARG:HD3	1:Y:126:LEU:HB2	1.96	0.46
1:Y:772:TYR:HE1	1:Z:770:LEU:HD23	1.79	0.46
1:a:145:PHE:CE2	1:a:151:TYR:HB2	2.51	0.46
1:a:458:VAL:HG23	1:a:489:LEU:HB2	1.97	0.46
1:b:706:LEU:HD22	1:b:707:LEU:HD22	1.97	0.46
1:d:56:ARG:HD3	1:e:126:LEU:CB	2.46	0.46
1:d:534:HIS:CG	1:d:534:HIS:O	2.66	0.46
1:e:347:GLU:HG2	1:e:349:VAL:H	1.81	0.46
1:e:717:GLU:OE2	1:f:707:LEU:HG	2.15	0.46
1:f:737:GLY:O	1:f:740:SER:OG	2.28	0.46
1:h:128:ASP:HA	1:h:137:VAL:O	2.15	0.46
1:h:336:ALA:O	1:h:354:GLY:N	2.45	0.46
1:i:108:ASP:N	1:i:108:ASP:OD1	2.49	0.46
1:i:575:ILE:O	1:i:579:VAL:HG23	2.15	0.46
1:j:378:GLN:HA	1:j:407:MET:HE1	1.96	0.46
1:j:753:ILE:HG13	1:k:744:ALA:HB1	1.96	0.46
1:k:56:ARG:HD3	1:l:126:LEU:CB	2.46	0.46
1:l:145:PHE:CE2	1:l:151:TYR:HB2	2.50	0.46
1:l:575:ILE:O	1:l:579:VAL:HG23	2.15	0.46
1:m:458:VAL:HG23	1:m:489:LEU:HB2	1.97	0.46
1:m:706:LEU:HD22	1:m:707:LEU:HD22	1.97	0.46
1:C:758:GLU:HA	1:C:761:ARG:HE	1.79	0.46
1:D:56:ARG:HD3	1:E:126:LEU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:56:ARG:HD3	1:F:126:LEU:CB	2.46	0.46
1:F:347:GLU:HG2	1:F:349:VAL:H	1.81	0.46
1:G:392:ASP:O	1:G:396:GLY:N	2.40	0.46
1:H:594:ASN:HA	1:H:597:ARG:NH2	2.31	0.46
1:H:717:GLU:OE2	1:I:707:LEU:HG	2.15	0.46
1:H:802:LEU:HD22	1:H:807:ILE:HG23	1.97	0.46
1:I:336:ALA:O	1:I:354:GLY:N	2.45	0.46
1:I:575:ILE:O	1:I:579:VAL:HG23	2.15	0.46
1:J:395:THR:HG23	1:J:397:LYS:HG2	1.96	0.46
1:K:326:LEU:HB2	1:K:330:GLN:HB2	1.97	0.46
1:K:764:LYS:HG3	1:L:759:LEU:HD11	1.97	0.46
1:L:138:MET:HE2	1:L:138:MET:HA	1.96	0.46
1:L:594:ASN:OD1	1:L:597:ARG:NE	2.46	0.46
1:O:594:ASN:OD1	1:O:597:ARG:NE	2.46	0.46
1:O:802:LEU:HD22	1:O:807:ILE:HG23	1.97	0.46
1:P:764:LYS:HG3	1:Q:759:LEU:HD11	1.97	0.46
1:Q:347:GLU:HG2	1:Q:349:VAL:H	1.81	0.46
1:Q:743:GLN:N	1:R:734:ARG:HH12	2.13	0.46
1:S:336:ALA:O	1:S:354:GLY:N	2.45	0.46
1:S:347:GLU:HG2	1:S:349:VAL:H	1.81	0.46
1:T:56:ARG:HD3	1:U:126:LEU:CB	2.46	0.46
1:T:706:LEU:HD22	1:T:707:LEU:HD22	1.97	0.46
1:U:56:ARG:HD3	1:V:126:LEU:CB	2.46	0.46
1:U:108:ASP:OD1	1:U:108:ASP:N	2.49	0.46
1:W:145:PHE:CE2	1:W:151:TYR:HB2	2.51	0.46
1:X:108:ASP:OD1	1:X:108:ASP:N	2.49	0.46
1:X:128:ASP:HA	1:X:137:VAL:O	2.15	0.46
1:X:145:PHE:CE2	1:X:151:TYR:HB2	2.51	0.46
1:Y:56:ARG:HD3	1:Z:126:LEU:HB2	1.96	0.46
1:Z:128:ASP:HA	1:Z:137:VAL:O	2.15	0.46
1:a:777:LEU:HA	1:a:780:GLU:OE1	2.15	0.46
1:c:743:GLN:N	1:d:734:ARG:HH12	2.13	0.46
1:g:145:PHE:CE2	1:g:151:TYR:HB2	2.50	0.46
1:g:594:ASN:OD1	1:g:597:ARG:NE	2.46	0.46
1:h:706:LEU:HD22	1:h:707:LEU:HD22	1.97	0.46
1:h:802:LEU:HD22	1:h:807:ILE:HG23	1.97	0.46
1:j:706:LEU:HD22	1:j:707:LEU:HD22	1.97	0.46
1:j:713:SER:HA	1:k:704:LYS:HZ2	1.80	0.46
1:k:128:ASP:HA	1:k:137:VAL:O	2.15	0.46
1:l:128:ASP:HA	1:l:137:VAL:O	2.15	0.46
1:m:145:PHE:CE2	1:m:151:TYR:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:ASP:N	1:A:108:ASP:OD1	2.49	0.46
1:A:743:GLN:N	1:B:734:ARG:HH12	2.13	0.46
1:C:772:TYR:HE1	1:D:770:LEU:HD23	1.79	0.46
1:D:770:LEU:HB2	1:D:774:ARG:NH1	2.22	0.46
1:F:743:GLN:N	1:G:734:ARG:HH12	2.13	0.46
1:G:56:ARG:HD3	1:H:126:LEU:CB	2.46	0.46
1:H:56:ARG:HD3	1:I:126:LEU:HB2	1.97	0.46
1:J:594:ASN:HA	1:J:597:ARG:NH2	2.31	0.46
1:M:56:ARG:HD3	1:N:126:LEU:CB	2.46	0.46
1:P:56:ARG:HD3	1:Q:126:LEU:CB	2.46	0.46
1:P:660:LEU:O	1:P:664:ILE:HG23	2.16	0.46
1:P:717:GLU:OE2	1:Q:707:LEU:HG	2.15	0.46
1:Q:458:VAL:HG23	1:Q:489:LEU:HB2	1.97	0.46
1:Q:713:SER:HA	1:R:704:LYS:HZ2	1.80	0.46
1:S:458:VAL:HG23	1:S:489:LEU:HB2	1.97	0.46
1:S:594:ASN:HA	1:S:597:ARG:NH2	2.31	0.46
1:T:594:ASN:HA	1:T:597:ARG:NH2	2.31	0.46
1:V:395:THR:HG23	1:V:397:LYS:HG2	1.96	0.46
1:V:534:HIS:O	1:V:534:HIS:CG	2.66	0.46
1:W:56:ARG:HD3	1:X:126:LEU:CB	2.46	0.46
1:W:717:GLU:OE2	1:X:707:LEU:HG	2.15	0.46
1:W:737:GLY:O	1:W:740:SER:OG	2.28	0.46
1:X:56:ARG:HD3	1:Y:126:LEU:CB	2.46	0.46
1:X:706:LEU:HD22	1:X:707:LEU:HD22	1.97	0.46
1:Y:145:PHE:CE2	1:Y:151:TYR:HB2	2.51	0.46
1:a:347:GLU:HG2	1:a:349:VAL:H	1.81	0.46
1:c:594:ASN:HA	1:c:597:ARG:NH2	2.31	0.46
1:g:594:ASN:HA	1:g:597:ARG:NH2	2.31	0.46
1:g:705:GLU:HA	1:g:708:GLU:CD	2.41	0.46
1:h:764:LYS:HG3	1:i:759:LEU:HD11	1.97	0.46
1:h:772:TYR:HE1	1:i:770:LEU:HD23	1.79	0.46
1:j:347:GLU:HG2	1:j:349:VAL:H	1.81	0.46
1:k:108:ASP:OD1	1:k:108:ASP:N	2.49	0.46
1:k:594:ASN:HA	1:k:597:ARG:NH2	2.31	0.46
1:A:56:ARG:HD3	1:B:126:LEU:CB	2.46	0.46
1:A:395:THR:HG23	1:A:397:LYS:HG2	1.96	0.46
1:A:504:ARG:HB3	1:A:505:PRO:HD3	1.98	0.46
1:A:802:LEU:HD22	1:A:807:ILE:HG23	1.97	0.46
1:E:660:LEU:O	1:E:664:ILE:HG23	2.16	0.46
1:F:108:ASP:N	1:F:108:ASP:OD1	2.49	0.46
1:F:706:LEU:HD22	1:F:707:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:56:ARG:HD3	1:J:126:LEU:CB	2.45	0.46
1:I:326:LEU:HB2	1:I:330:GLN:HB2	1.97	0.46
1:I:458:VAL:HG23	1:I:489:LEU:HB2	1.97	0.46
1:I:504:ARG:HB3	1:I:505:PRO:HD3	1.98	0.46
1:K:347:GLU:HG2	1:K:349:VAL:H	1.81	0.46
1:K:458:VAL:HG23	1:K:489:LEU:HB2	1.97	0.46
1:L:56:ARG:HD3	1:M:126:LEU:HB2	1.96	0.46
1:L:347:GLU:HG2	1:L:349:VAL:H	1.81	0.46
1:L:594:ASN:HA	1:L:597:ARG:NH2	2.31	0.46
1:L:777:LEU:HA	1:L:780:GLU:OE1	2.15	0.46
1:M:504:ARG:HB3	1:M:505:PRO:HD3	1.98	0.46
1:M:594:ASN:HA	1:M:597:ARG:NH2	2.31	0.46
1:M:743:GLN:N	1:N:734:ARG:HH12	2.13	0.46
1:N:534:HIS:O	1:N:534:HIS:CG	2.66	0.46
1:N:792:ALA:O	1:N:796:LYS:HG2	2.16	0.46
1:O:660:LEU:O	1:O:664:ILE:HG23	2.16	0.46
1:O:792:ALA:O	1:O:796:LYS:HG2	2.16	0.46
1:P:128:ASP:HA	1:P:137:VAL:O	2.15	0.46
1:P:792:ALA:O	1:P:796:LYS:HG2	2.16	0.46
1:Q:705:GLU:HA	1:Q:708:GLU:CD	2.41	0.46
1:R:575:ILE:O	1:R:579:VAL:HG23	2.15	0.46
1:R:705:GLU:HA	1:R:708:GLU:CD	2.41	0.46
1:T:504:ARG:HB3	1:T:505:PRO:HD3	1.98	0.46
1:U:458:VAL:HG23	1:U:489:LEU:HB2	1.97	0.46
1:U:792:ALA:O	1:U:796:LYS:HG2	2.16	0.46
1:W:743:GLN:N	1:X:734:ARG:HH12	2.13	0.46
1:X:705:GLU:HA	1:X:708:GLU:CD	2.41	0.46
1:Z:802:LEU:HD22	1:Z:807:ILE:HG23	1.97	0.46
1:a:504:ARG:HB3	1:a:505:PRO:HD3	1.98	0.46
1:a:681:GLU:HA	1:b:675:HIS:CE1	2.50	0.46
1:a:764:LYS:HG3	1:b:759:LEU:HD11	1.97	0.46
1:a:792:ALA:O	1:a:796:LYS:HG2	2.16	0.46
1:b:777:LEU:HA	1:b:780:GLU:OE1	2.15	0.46
1:e:504:ARG:HB3	1:e:505:PRO:HD3	1.98	0.46
1:g:56:ARG:HD3	1:h:126:LEU:CB	2.46	0.46
1:g:534:HIS:O	1:g:534:HIS:CG	2.66	0.46
1:h:737:GLY:O	1:h:740:SER:OG	2.28	0.46
1:j:326:LEU:HB2	1:j:330:GLN:HB2	1.97	0.46
1:l:764:LYS:HG3	1:m:759:LEU:HD11	1.97	0.46
1:m:792:ALA:O	1:m:796:LYS:HG2	2.16	0.46
1:B:665:THR:OG1	1:C:589:ASP:OD2	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:764:LYS:HG3	1:D:759:LEU:HD11	1.97	0.46
1:F:665:THR:OG1	1:G:589:ASP:OD2	2.19	0.46
1:F:792:ALA:O	1:F:796:LYS:HG2	2.16	0.46
1:F:801:ALA:HB3	1:G:796:LYS:NZ	2.31	0.46
1:G:792:ALA:O	1:G:796:LYS:HG2	2.16	0.46
1:H:326:LEU:HB2	1:H:330:GLN:HB2	1.97	0.46
1:H:458:VAL:HG23	1:H:489:LEU:HB2	1.97	0.46
1:H:504:ARG:HB3	1:H:505:PRO:HD3	1.98	0.46
1:H:705:GLU:HA	1:H:708:GLU:CD	2.41	0.46
1:I:347:GLU:HG2	1:I:349:VAL:H	1.81	0.46
1:I:705:GLU:HA	1:I:708:GLU:CD	2.41	0.46
1:I:801:ALA:HB3	1:J:796:LYS:NZ	2.31	0.46
1:L:743:GLN:N	1:M:734:ARG:HH12	2.13	0.46
1:M:395:THR:HG23	1:M:397:LYS:HG2	1.96	0.46
1:N:575:ILE:O	1:N:579:VAL:HG23	2.15	0.46
1:O:55:PRO:HB2	1:O:56:ARG:HG3	1.98	0.46
1:O:764:LYS:HG3	1:P:759:LEU:HD11	1.97	0.46
1:P:575:ILE:O	1:P:579:VAL:HG23	2.15	0.46
1:Q:801:ALA:HB3	1:R:796:LYS:NZ	2.31	0.46
1:S:326:LEU:HB2	1:S:330:GLN:HB2	1.97	0.46
1:T:458:VAL:HG23	1:T:489:LEU:HB2	1.97	0.46
1:T:792:ALA:O	1:T:796:LYS:HG2	2.16	0.46
1:T:801:ALA:HB3	1:U:796:LYS:NZ	2.31	0.46
1:U:802:LEU:HD22	1:U:807:ILE:HG23	1.97	0.46
1:V:347:GLU:HG2	1:V:349:VAL:H	1.81	0.46
1:V:453:ASN:OD1	1:V:455:THR:OG1	2.24	0.46
1:V:802:LEU:HD22	1:V:807:ILE:HG23	1.97	0.46
1:W:326:LEU:HB2	1:W:330:GLN:HB2	1.97	0.46
1:W:575:ILE:O	1:W:579:VAL:HG23	2.15	0.46
1:W:705:GLU:HA	1:W:708:GLU:CD	2.41	0.46
1:X:347:GLU:HG2	1:X:349:VAL:H	1.81	0.46
1:X:458:VAL:HG23	1:X:489:LEU:HB2	1.97	0.46
1:Z:705:GLU:HA	1:Z:708:GLU:CD	2.41	0.46
1:b:743:GLN:N	1:c:734:ARG:HH12	2.13	0.46
1:c:777:LEU:HA	1:c:780:GLU:OE1	2.15	0.46
1:d:458:VAL:HG23	1:d:489:LEU:HB2	1.97	0.46
1:d:706:LEU:HD22	1:d:707:LEU:HD22	1.97	0.46
1:e:108:ASP:OD1	1:e:108:ASP:N	2.49	0.46
1:f:458:VAL:HG23	1:f:489:LEU:HB2	1.97	0.46
1:f:504:ARG:HB3	1:f:505:PRO:HD3	1.98	0.46
1:g:347:GLU:HG2	1:g:349:VAL:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:458:VAL:HG23	1:i:489:LEU:HB2	1.97	0.46
1:j:792:ALA:O	1:j:796:LYS:HG2	2.16	0.46
1:k:145:PHE:CE2	1:k:151:TYR:HB2	2.50	0.46
1:k:347:GLU:HG2	1:k:349:VAL:H	1.81	0.46
1:k:792:ALA:O	1:k:796:LYS:HG2	2.16	0.46
1:l:792:ALA:O	1:l:796:LYS:HG2	2.16	0.46
1:m:347:GLU:HG2	1:m:349:VAL:H	1.81	0.46
1:B:55:PRO:HB2	1:B:56:ARG:HG3	1.98	0.46
1:B:128:ASP:HA	1:B:137:VAL:O	2.15	0.46
1:C:594:ASN:HA	1:C:597:ARG:NH2	2.31	0.46
1:D:326:LEU:HB2	1:D:330:GLN:HB2	1.97	0.46
1:D:534:HIS:O	1:D:534:HIS:CG	2.66	0.46
1:E:55:PRO:HB2	1:E:56:ARG:HG3	1.98	0.46
1:F:55:PRO:HB2	1:F:56:ARG:HG3	1.98	0.46
1:H:55:PRO:HB2	1:H:56:ARG:HG3	1.98	0.46
1:H:145:PHE:CE2	1:H:151:TYR:HB2	2.51	0.46
1:M:145:PHE:CE2	1:M:151:TYR:HB2	2.50	0.46
1:M:792:ALA:O	1:M:796:LYS:HG2	2.16	0.46
1:N:56:ARG:HD3	1:O:126:LEU:CB	2.46	0.46
1:O:705:GLU:HA	1:O:708:GLU:CD	2.41	0.46
1:O:801:ALA:HB3	1:P:796:LYS:NZ	2.31	0.46
1:P:55:PRO:HB2	1:P:56:ARG:HG3	1.98	0.46
1:P:458:VAL:HG23	1:P:489:LEU:HB2	1.97	0.46
1:P:594:ASN:HA	1:P:597:ARG:NH2	2.31	0.46
1:P:719:THR:O	1:P:723:LYS:CB	2.64	0.46
1:Q:56:ARG:HD3	1:R:126:LEU:CB	2.46	0.46
1:R:108:ASP:OD1	1:R:108:ASP:N	2.48	0.46
1:R:594:ASN:OD1	1:R:597:ARG:NE	2.46	0.46
1:R:706:LEU:HD22	1:R:707:LEU:HD22	1.97	0.46
1:R:801:ALA:HB3	1:S:796:LYS:NZ	2.31	0.46
1:T:145:PHE:CE2	1:T:151:TYR:HB2	2.51	0.46
1:T:347:GLU:HG2	1:T:349:VAL:H	1.81	0.46
1:U:594:ASN:HA	1:U:597:ARG:NH2	2.31	0.46
1:V:594:ASN:HA	1:V:597:ARG:NH2	2.31	0.46
1:V:764:LYS:HG3	1:W:759:LEU:HD11	1.97	0.46
1:W:713:SER:HA	1:X:704:LYS:HZ2	1.81	0.46
1:Y:705:GLU:HA	1:Y:708:GLU:CD	2.41	0.46
1:Y:801:ALA:HB3	1:Z:796:LYS:NZ	2.31	0.46
1:Z:56:ARG:HD3	1:a:126:LEU:CB	2.46	0.46
1:Z:792:ALA:O	1:Z:796:LYS:HG2	2.16	0.46
1:a:392:ASP:O	1:a:396:GLY:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:706:LEU:HD22	1:a:707:LEU:HD22	1.97	0.46
1:b:347:GLU:HG2	1:b:349:VAL:H	1.81	0.46
1:b:504:ARG:HB3	1:b:505:PRO:HD3	1.98	0.46
1:b:594:ASN:HA	1:b:597:ARG:NH2	2.31	0.46
1:b:705:GLU:HA	1:b:708:GLU:CD	2.41	0.46
1:b:801:ALA:HB3	1:c:796:LYS:NZ	2.31	0.46
1:c:145:PHE:CE2	1:c:151:TYR:HB2	2.51	0.46
1:d:326:LEU:HB2	1:d:330:GLN:HB2	1.97	0.46
1:e:801:ALA:HB3	1:f:796:LYS:NZ	2.31	0.46
1:f:128:ASP:HA	1:f:137:VAL:O	2.15	0.46
1:f:706:LEU:HD22	1:f:707:LEU:HD22	1.97	0.46
1:f:792:ALA:O	1:f:796:LYS:HG2	2.16	0.46
1:g:660:LEU:O	1:g:664:ILE:HG23	2.16	0.46
1:g:706:LEU:HD22	1:g:707:LEU:HD22	1.97	0.46
1:g:792:ALA:O	1:g:796:LYS:HG2	2.16	0.46
1:h:705:GLU:HA	1:h:708:GLU:CD	2.41	0.46
1:h:743:GLN:N	1:i:734:ARG:HH12	2.13	0.46
1:i:453:ASN:OD1	1:i:455:THR:OG1	2.24	0.46
1:j:594:ASN:HA	1:j:597:ARG:NH2	2.31	0.46
1:k:138:MET:HA	1:k:138:MET:HE2	1.96	0.46
1:k:764:LYS:HG3	1:l:759:LEU:HD11	1.97	0.46
1:l:594:ASN:HA	1:l:597:ARG:NH2	2.31	0.46
1:A:660:LEU:O	1:A:664:ILE:HG23	2.16	0.45
1:C:458:VAL:HG23	1:C:489:LEU:HB2	1.97	0.45
1:E:764:LYS:HG3	1:F:759:LEU:HD11	1.97	0.45
1:E:792:ALA:O	1:E:796:LYS:HG2	2.16	0.45
1:F:382:LEU:HB2	1:F:405:THR:HA	1.99	0.45
1:F:660:LEU:O	1:F:664:ILE:HG23	2.16	0.45
1:F:717:GLU:OE2	1:G:707:LEU:HG	2.15	0.45
1:F:764:LYS:HG3	1:G:759:LEU:HD11	1.97	0.45
1:F:772:TYR:HE1	1:G:770:LEU:HD23	1.79	0.45
1:H:108:ASP:OD1	1:H:108:ASP:N	2.49	0.45
1:H:531:THR:HG22	1:H:588:PHE:CE1	2.52	0.45
1:H:792:ALA:O	1:H:796:LYS:HG2	2.16	0.45
1:J:175:ARG:CZ	1:J:263:VAL:HG12	2.47	0.45
1:J:802:LEU:HD22	1:J:807:ILE:HG23	1.97	0.45
1:K:56:ARG:HD3	1:L:126:LEU:CB	2.46	0.45
1:K:175:ARG:CZ	1:K:263:VAL:HG12	2.47	0.45
1:L:705:GLU:HA	1:L:708:GLU:CD	2.41	0.45
1:M:382:LEU:HB2	1:M:405:THR:HA	1.99	0.45
1:N:347:GLU:HG2	1:N:349:VAL:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:504:ARG:HB3	1:N:505:PRO:HD3	1.98	0.45
1:P:108:ASP:OD1	1:P:108:ASP:N	2.49	0.45
1:P:801:ALA:HB3	1:Q:796:LYS:NZ	2.31	0.45
1:Q:792:ALA:O	1:Q:796:LYS:HG2	2.16	0.45
1:S:719:THR:O	1:S:723:LYS:CB	2.65	0.45
1:T:108:ASP:OD1	1:T:108:ASP:N	2.48	0.45
1:U:706:LEU:HD22	1:U:707:LEU:HD22	1.97	0.45
1:V:128:ASP:HA	1:V:137:VAL:O	2.15	0.45
1:W:770:LEU:HB2	1:W:774:ARG:NH1	2.22	0.45
1:X:175:ARG:CZ	1:X:263:VAL:HG12	2.47	0.45
1:Y:802:LEU:HD22	1:Y:807:ILE:HG23	1.97	0.45
1:Z:347:GLU:HG2	1:Z:349:VAL:H	1.81	0.45
1:a:719:THR:O	1:a:723:LYS:CB	2.65	0.45
1:b:458:VAL:HG23	1:b:489:LEU:HB2	1.97	0.45
1:b:792:ALA:O	1:b:796:LYS:HG2	2.16	0.45
1:c:175:ARG:CZ	1:c:263:VAL:HG12	2.47	0.45
1:d:594:ASN:HA	1:d:597:ARG:NH2	2.31	0.45
1:d:719:THR:O	1:d:723:LYS:CB	2.65	0.45
1:f:326:LEU:HB2	1:f:330:GLN:HB2	1.97	0.45
1:f:347:GLU:HG2	1:f:349:VAL:H	1.81	0.45
1:f:719:THR:O	1:f:723:LYS:CB	2.65	0.45
1:f:764:LYS:HG3	1:g:759:LEU:HD11	1.97	0.45
1:g:55:PRO:HB2	1:g:56:ARG:HG3	1.98	0.45
1:g:719:THR:O	1:g:723:LYS:CB	2.64	0.45
1:g:801:ALA:HB3	1:h:796:LYS:NZ	2.31	0.45
1:h:392:ASP:O	1:h:396:GLY:N	2.40	0.45
1:i:594:ASN:HA	1:i:597:ARG:NH2	2.31	0.45
1:j:108:ASP:N	1:j:108:ASP:OD1	2.49	0.45
1:j:801:ALA:HB3	1:k:796:LYS:NZ	2.31	0.45
1:l:777:LEU:HA	1:l:780:GLU:OE1	2.15	0.45
1:m:719:THR:O	1:m:723:LYS:CB	2.64	0.45
1:A:719:THR:O	1:A:723:LYS:CB	2.65	0.45
1:B:706:LEU:HD22	1:B:707:LEU:HD22	1.97	0.45
1:B:777:LEU:HA	1:B:780:GLU:OE1	2.15	0.45
1:C:55:PRO:HB2	1:C:56:ARG:HG3	1.98	0.45
1:D:55:PRO:HB2	1:D:56:ARG:HG3	1.98	0.45
1:D:145:PHE:CE2	1:D:151:TYR:HB2	2.51	0.45
1:D:594:ASN:HA	1:D:597:ARG:NH2	2.31	0.45
1:D:660:LEU:O	1:D:664:ILE:HG23	2.16	0.45
1:D:779:LEU:HD13	1:E:774:ARG:HE	1.82	0.45
1:E:518:LEU:HB2	1:E:547:PHE:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:743:GLN:N	1:F:734:ARG:HH12	2.13	0.45
1:F:518:LEU:HB2	1:F:547:PHE:HB2	1.99	0.45
1:F:719:THR:O	1:F:723:LYS:CB	2.64	0.45
1:G:55:PRO:HB2	1:G:56:ARG:HG3	1.98	0.45
1:G:777:LEU:HA	1:G:780:GLU:OE1	2.15	0.45
1:G:802:LEU:HD22	1:G:807:ILE:HG23	1.97	0.45
1:H:518:LEU:HB2	1:H:547:PHE:HB2	1.99	0.45
1:I:175:ARG:CZ	1:I:263:VAL:HG12	2.47	0.45
1:I:660:LEU:O	1:I:664:ILE:HG23	2.16	0.45
1:L:175:ARG:CZ	1:L:263:VAL:HG12	2.47	0.45
1:M:458:VAL:HG23	1:M:489:LEU:HB2	1.97	0.45
1:M:719:THR:O	1:M:723:LYS:CB	2.64	0.45
1:N:801:ALA:HB3	1:O:796:LYS:NZ	2.31	0.45
1:P:663:GLU:O	1:P:666:THR:OG1	2.26	0.45
1:Q:382:LEU:HB2	1:Q:405:THR:HA	1.99	0.45
1:Q:504:ARG:HB3	1:Q:505:PRO:HD3	1.98	0.45
1:R:382:LEU:HB2	1:R:405:THR:HA	1.99	0.45
1:R:453:ASN:OD1	1:R:455:THR:OG1	2.24	0.45
1:R:594:ASN:HA	1:R:597:ARG:NH2	2.31	0.45
1:R:758:GLU:HA	1:R:761:ARG:HE	1.79	0.45
1:S:56:ARG:HD3	1:T:126:LEU:CB	2.46	0.45
1:U:663:GLU:O	1:U:666:THR:OG1	2.26	0.45
1:U:705:GLU:HA	1:U:708:GLU:CD	2.41	0.45
1:V:108:ASP:N	1:V:108:ASP:OD1	2.49	0.45
1:V:792:ALA:O	1:V:796:LYS:HG2	2.16	0.45
1:W:55:PRO:HB2	1:W:56:ARG:HG3	1.98	0.45
1:W:764:LYS:HG3	1:X:759:LEU:HD11	1.97	0.45
1:X:55:PRO:HB2	1:X:56:ARG:HG3	1.98	0.45
1:X:382:LEU:HB2	1:X:405:THR:HA	1.99	0.45
1:X:504:ARG:HB3	1:X:505:PRO:HD3	1.98	0.45
1:X:594:ASN:HA	1:X:597:ARG:NH2	2.31	0.45
1:X:719:THR:O	1:X:723:LYS:CB	2.64	0.45
1:Y:382:LEU:HB2	1:Y:405:THR:HA	1.99	0.45
1:Y:719:THR:O	1:Y:723:LYS:CB	2.64	0.45
1:Z:594:ASN:HA	1:Z:597:ARG:NH2	2.31	0.45
1:Z:660:LEU:O	1:Z:664:ILE:HG23	2.16	0.45
1:d:108:ASP:OD1	1:d:108:ASP:N	2.48	0.45
1:d:801:ALA:HB3	1:e:796:LYS:NZ	2.31	0.45
1:f:175:ARG:CZ	1:f:263:VAL:HG12	2.47	0.45
1:f:660:LEU:O	1:f:664:ILE:HG23	2.16	0.45
1:f:777:LEU:HA	1:f:780:GLU:OE1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:764:LYS:HG3	1:h:759:LEU:HD11	1.97	0.45
1:j:56:ARG:HD3	1:k:126:LEU:CB	2.46	0.45
1:j:175:ARG:CZ	1:j:263:VAL:HG12	2.47	0.45
1:m:55:PRO:HB2	1:m:56:ARG:HG3	1.98	0.45
1:m:175:ARG:CZ	1:m:263:VAL:HG12	2.47	0.45
1:m:336:ALA:O	1:m:354:GLY:N	2.45	0.45
1:m:453:ASN:OD1	1:m:455:THR:OG1	2.24	0.45
1:A:55:PRO:HB2	1:A:56:ARG:HG3	1.99	0.45
1:A:303:LYS:HG2	1:A:304:GLY:N	2.32	0.45
1:A:382:LEU:HB2	1:A:405:THR:HA	1.99	0.45
1:A:706:LEU:HD22	1:A:707:LEU:HD22	1.97	0.45
1:A:792:ALA:O	1:A:796:LYS:HG2	2.16	0.45
1:A:801:ALA:HB3	1:B:796:LYS:NZ	2.31	0.45
1:B:347:GLU:HG2	1:B:349:VAL:H	1.81	0.45
1:B:518:LEU:HB2	1:B:547:PHE:HB2	1.99	0.45
1:C:392:ASP:O	1:C:396:GLY:N	2.40	0.45
1:C:518:LEU:HB2	1:C:547:PHE:HB2	1.99	0.45
1:D:56:ARG:HD3	1:E:126:LEU:CB	2.46	0.45
1:D:458:VAL:HG23	1:D:489:LEU:HB2	1.97	0.45
1:I:55:PRO:HB2	1:I:56:ARG:HG3	1.98	0.45
1:J:504:ARG:HB3	1:J:505:PRO:HD3	1.98	0.45
1:J:719:THR:O	1:J:723:LYS:CB	2.64	0.45
1:K:108:ASP:N	1:K:108:ASP:OD1	2.49	0.45
1:K:382:LEU:HB2	1:K:405:THR:HA	1.99	0.45
1:L:660:LEU:O	1:L:664:ILE:HG23	2.16	0.45
1:L:779:LEU:HD13	1:M:774:ARG:HE	1.82	0.45
1:M:801:ALA:HB3	1:N:796:LYS:NZ	2.31	0.45
1:N:55:PRO:HB2	1:N:56:ARG:HG3	1.98	0.45
1:O:458:VAL:HG23	1:O:489:LEU:HB2	1.97	0.45
1:O:518:LEU:HB2	1:O:547:PHE:HB2	1.99	0.45
1:P:175:ARG:CZ	1:P:263:VAL:HG12	2.47	0.45
1:P:504:ARG:HB3	1:P:505:PRO:HD3	1.98	0.45
1:P:518:LEU:HB2	1:P:547:PHE:HB2	1.99	0.45
1:P:531:THR:HG22	1:P:588:PHE:CE1	2.52	0.45
1:P:705:GLU:HA	1:P:708:GLU:CD	2.41	0.45
1:Q:145:PHE:CE2	1:Q:151:TYR:HB2	2.51	0.45
1:Q:719:THR:O	1:Q:723:LYS:CB	2.64	0.45
1:S:764:LYS:HG3	1:T:759:LEU:HD11	1.97	0.45
1:S:792:ALA:O	1:S:796:LYS:HG2	2.16	0.45
1:T:175:ARG:CZ	1:T:263:VAL:HG12	2.47	0.45
1:T:713:SER:HA	1:U:704:LYS:HZ2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:504:ARG:HB3	1:U:505:PRO:HD3	1.98	0.45
1:V:175:ARG:CZ	1:V:263:VAL:HG12	2.47	0.45
1:W:504:ARG:HB3	1:W:505:PRO:HD3	1.98	0.45
1:Z:108:ASP:OD1	1:Z:108:ASP:N	2.49	0.45
1:a:108:ASP:N	1:a:108:ASP:OD1	2.49	0.45
1:a:705:GLU:HA	1:a:708:GLU:CD	2.41	0.45
1:b:531:THR:HG22	1:b:588:PHE:CE1	2.52	0.45
1:d:743:GLN:N	1:e:734:ARG:HH12	2.13	0.45
1:e:743:GLN:N	1:f:734:ARG:HH12	2.13	0.45
1:e:764:LYS:HG3	1:f:759:LEU:HD11	1.97	0.45
1:f:55:PRO:HB2	1:f:56:ARG:HG3	1.98	0.45
1:f:594:ASN:HA	1:f:597:ARG:NH2	2.31	0.45
1:f:663:GLU:O	1:f:666:THR:OG1	2.26	0.45
1:g:108:ASP:N	1:g:108:ASP:OD1	2.49	0.45
1:g:504:ARG:HB3	1:g:505:PRO:HD3	1.98	0.45
1:g:518:LEU:HB2	1:g:547:PHE:HB2	1.99	0.45
1:h:55:PRO:HB2	1:h:56:ARG:HG3	1.98	0.45
1:h:518:LEU:HB2	1:h:547:PHE:HB2	1.99	0.45
1:k:504:ARG:HB3	1:k:505:PRO:HD3	1.98	0.45
1:k:713:SER:HA	1:l:704:LYS:HZ2	1.80	0.45
1:k:801:ALA:HB3	1:l:796:LYS:NZ	2.31	0.45
1:l:347:GLU:HG2	1:l:349:VAL:H	1.81	0.45
1:l:594:ASN:OD1	1:l:597:ARG:NE	2.46	0.45
1:A:56:ARG:HD3	1:B:126:LEU:HB2	1.96	0.45
1:A:594:ASN:HA	1:A:597:ARG:NH2	2.31	0.45
1:B:705:GLU:HA	1:B:708:GLU:CD	2.41	0.45
1:C:531:THR:HG22	1:C:588:PHE:CE1	2.52	0.45
1:C:719:THR:O	1:C:723:LYS:CB	2.65	0.45
1:C:801:ALA:HB3	1:D:796:LYS:NZ	2.31	0.45
1:D:504:ARG:HB3	1:D:505:PRO:HD3	1.98	0.45
1:E:175:ARG:CZ	1:E:263:VAL:HG12	2.47	0.45
1:E:347:GLU:HG2	1:E:349:VAL:H	1.81	0.45
1:G:108:ASP:OD1	1:G:108:ASP:N	2.49	0.45
1:G:347:GLU:HG2	1:G:349:VAL:H	1.81	0.45
1:G:594:ASN:HA	1:G:597:ARG:NH2	2.31	0.45
1:H:660:LEU:O	1:H:664:ILE:HG23	2.16	0.45
1:J:660:LEU:O	1:J:664:ILE:HG23	2.16	0.45
1:J:706:LEU:HD22	1:J:707:LEU:HD22	1.97	0.45
1:J:801:ALA:HB3	1:K:796:LYS:NZ	2.31	0.45
1:K:705:GLU:HA	1:K:708:GLU:CD	2.41	0.45
1:M:175:ARG:CZ	1:M:263:VAL:HG12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:594:ASN:HA	1:N:597:ARG:NH2	2.31	0.45
1:N:705:GLU:HA	1:N:708:GLU:CD	2.41	0.45
1:O:347:GLU:HG2	1:O:349:VAL:H	1.81	0.45
1:P:303:LYS:HG2	1:P:304:GLY:N	2.32	0.45
1:P:347:GLU:HG2	1:P:349:VAL:H	1.81	0.45
1:Q:55:PRO:HB2	1:Q:56:ARG:HG3	1.98	0.45
1:Q:175:ARG:CZ	1:Q:263:VAL:HG12	2.47	0.45
1:R:326:LEU:HB2	1:R:330:GLN:HB2	1.97	0.45
1:S:504:ARG:HB3	1:S:505:PRO:HD3	1.98	0.45
1:S:705:GLU:HA	1:S:708:GLU:CD	2.41	0.45
1:S:801:ALA:HB3	1:T:796:LYS:NZ	2.31	0.45
1:S:802:LEU:HD22	1:S:807:ILE:HG23	1.97	0.45
1:T:531:THR:HG22	1:T:588:PHE:CE1	2.52	0.45
1:T:705:GLU:HA	1:T:708:GLU:CD	2.41	0.45
1:V:737:GLY:O	1:V:740:SER:OG	2.28	0.45
1:W:458:VAL:HG23	1:W:489:LEU:HB2	1.97	0.45
1:X:303:LYS:HG2	1:X:304:GLY:N	2.32	0.45
1:X:518:LEU:HB2	1:X:547:PHE:HB2	1.99	0.45
1:Y:55:PRO:HB2	1:Y:56:ARG:HG3	1.98	0.45
1:Y:56:ARG:HD3	1:Z:126:LEU:CB	2.46	0.45
1:Y:347:GLU:HG2	1:Y:349:VAL:H	1.81	0.45
1:Y:518:LEU:HB2	1:Y:547:PHE:HB2	1.99	0.45
1:Z:303:LYS:HG2	1:Z:304:GLY:N	2.32	0.45
1:Z:326:LEU:HB2	1:Z:330:GLN:HB2	1.97	0.45
1:Z:504:ARG:HB3	1:Z:505:PRO:HD3	1.98	0.45
1:a:534:HIS:O	1:a:534:HIS:CG	2.66	0.45
1:a:660:LEU:O	1:a:664:ILE:HG23	2.16	0.45
1:a:779:LEU:HD13	1:b:774:ARG:HE	1.82	0.45
1:b:303:LYS:HG2	1:b:304:GLY:N	2.32	0.45
1:c:347:GLU:HG2	1:c:349:VAL:H	1.81	0.45
1:d:764:LYS:HG3	1:e:759:LEU:HD11	1.97	0.45
1:f:145:PHE:CE2	1:f:151:TYR:HB2	2.51	0.45
1:f:382:LEU:HB2	1:f:405:THR:HA	1.98	0.45
1:g:382:LEU:HB2	1:g:405:THR:HA	1.99	0.45
1:h:326:LEU:HB2	1:h:330:GLN:HB2	1.97	0.45
1:i:792:ALA:O	1:i:796:LYS:HG2	2.16	0.45
1:j:719:THR:O	1:j:723:LYS:CB	2.64	0.45
1:k:175:ARG:CZ	1:k:263:VAL:HG12	2.47	0.45
1:k:303:LYS:HG2	1:k:304:GLY:N	2.32	0.45
1:l:108:ASP:N	1:l:108:ASP:OD1	2.48	0.45
1:A:126:LEU:HB2	1:m:56:ARG:HD3	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:663:GLU:O	1:A:666:THR:OG1	2.26	0.45
1:B:303:LYS:HG2	1:B:304:GLY:N	2.32	0.45
1:B:504:ARG:HB3	1:B:505:PRO:HD3	1.98	0.45
1:E:531:THR:HG22	1:E:588:PHE:CE1	2.52	0.45
1:E:719:THR:O	1:E:723:LYS:CB	2.65	0.45
1:G:56:ARG:HG2	1:H:127:LEU:HG	1.99	0.45
1:G:504:ARG:HB3	1:G:505:PRO:HD3	1.98	0.45
1:I:518:LEU:HB2	1:I:547:PHE:HB2	1.99	0.45
1:I:594:ASN:HA	1:I:597:ARG:NH2	2.31	0.45
1:J:303:LYS:HG2	1:J:304:GLY:N	2.32	0.45
1:K:464:HIS:HB3	1:L:562:PHE:HE2	1.82	0.45
1:K:531:THR:HG22	1:K:588:PHE:CE1	2.52	0.45
1:K:594:ASN:OD1	1:K:597:ARG:NE	2.46	0.45
1:K:660:LEU:O	1:K:664:ILE:HG23	2.16	0.45
1:L:108:ASP:N	1:L:108:ASP:OD1	2.49	0.45
1:L:145:PHE:CE2	1:L:151:TYR:HB2	2.50	0.45
1:L:719:THR:O	1:L:723:LYS:CB	2.65	0.45
1:N:660:LEU:O	1:N:664:ILE:HG23	2.16	0.45
1:N:719:THR:O	1:N:723:LYS:CB	2.64	0.45
1:N:802:LEU:HD22	1:N:807:ILE:HG23	1.97	0.45
1:O:303:LYS:HG2	1:O:304:GLY:N	2.32	0.45
1:Q:575:ILE:O	1:Q:579:VAL:HG23	2.15	0.45
1:Q:660:LEU:O	1:Q:664:ILE:HG23	2.16	0.45
1:R:56:ARG:HG2	1:S:127:LEU:HG	1.99	0.45
1:R:303:LYS:HG2	1:R:304:GLY:N	2.32	0.45
1:R:347:GLU:HG2	1:R:349:VAL:H	1.81	0.45
1:S:303:LYS:HG2	1:S:304:GLY:N	2.32	0.45
1:V:719:THR:O	1:V:723:LYS:CB	2.64	0.45
1:W:273:ILE:HD11	1:W:307:SER:HB3	1.99	0.45
1:X:464:HIS:HB3	1:Y:562:PHE:HE2	1.82	0.45
1:Y:175:ARG:CZ	1:Y:263:VAL:HG12	2.47	0.45
1:Y:453:ASN:OD1	1:Y:455:THR:OG1	2.24	0.45
1:Y:660:LEU:O	1:Y:664:ILE:HG23	2.16	0.45
1:Y:792:ALA:O	1:Y:796:LYS:HG2	2.16	0.45
1:Z:743:GLN:N	1:a:734:ARG:HH12	2.13	0.45
1:c:464:HIS:HB3	1:d:562:PHE:HE2	1.82	0.45
1:c:737:GLY:O	1:c:740:SER:OG	2.28	0.45
1:e:531:THR:HG22	1:e:588:PHE:CE1	2.52	0.45
1:e:792:ALA:O	1:e:796:LYS:HG2	2.16	0.45
1:f:518:LEU:HB2	1:f:547:PHE:HB2	1.99	0.45
1:f:705:GLU:HA	1:f:708:GLU:CD	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:743:GLN:N	1:g:734:ARG:HH12	2.13	0.45
1:h:660:LEU:O	1:h:664:ILE:HG23	2.16	0.45
1:h:792:ALA:O	1:h:796:LYS:HG2	2.16	0.45
1:i:347:GLU:HG2	1:i:349:VAL:H	1.81	0.45
1:i:777:LEU:HA	1:i:780:GLU:OE1	2.15	0.45
1:i:802:LEU:HD22	1:i:807:ILE:HG23	1.97	0.45
1:j:56:ARG:HD3	1:k:126:LEU:HB2	1.97	0.45
1:j:382:LEU:HB2	1:j:405:THR:HA	1.99	0.45
1:j:764:LYS:HG3	1:k:759:LEU:HD11	1.97	0.45
1:k:56:ARG:HG2	1:l:127:LEU:HG	1.99	0.45
1:l:55:PRO:HB2	1:l:56:ARG:HG3	1.99	0.45
1:l:705:GLU:HA	1:l:708:GLU:CD	2.41	0.45
1:m:382:LEU:HB2	1:m:405:THR:HA	1.99	0.45
1:m:594:ASN:OD1	1:m:597:ARG:NE	2.46	0.45
1:m:802:LEU:HD22	1:m:807:ILE:HG23	1.97	0.45
1:A:518:LEU:HB2	1:A:547:PHE:HB2	1.99	0.45
1:A:562:PHE:HE2	1:m:464:HIS:HB3	1.82	0.45
1:A:705:GLU:HA	1:A:708:GLU:CD	2.41	0.45
1:A:796:LYS:NZ	1:m:801:ALA:HB3	2.31	0.45
1:B:594:ASN:HA	1:B:597:ARG:NH2	2.31	0.45
1:B:660:LEU:O	1:B:664:ILE:HG23	2.16	0.45
1:B:719:THR:O	1:B:723:LYS:CB	2.64	0.45
1:B:764:LYS:HG3	1:C:759:LEU:HD11	1.97	0.45
1:C:108:ASP:N	1:C:108:ASP:OD1	2.49	0.45
1:C:594:ASN:OD1	1:C:597:ARG:NE	2.46	0.45
1:C:802:LEU:HD22	1:C:807:ILE:HG23	1.97	0.45
1:D:175:ARG:CZ	1:D:263:VAL:HG12	2.47	0.45
1:D:303:LYS:HG2	1:D:304:GLY:N	2.32	0.45
1:D:382:LEU:HB2	1:D:405:THR:HA	1.99	0.45
1:D:518:LEU:HB2	1:D:547:PHE:HB2	1.99	0.45
1:D:792:ALA:O	1:D:796:LYS:HG2	2.16	0.45
1:E:801:ALA:HB3	1:F:796:LYS:NZ	2.31	0.45
1:F:464:HIS:HB3	1:G:562:PHE:HE2	1.82	0.45
1:F:713:SER:HA	1:G:704:LYS:HZ2	1.81	0.45
1:G:303:LYS:HG2	1:G:304:GLY:N	2.32	0.45
1:G:518:LEU:HB2	1:G:547:PHE:HB2	1.99	0.45
1:G:705:GLU:HA	1:G:708:GLU:CD	2.41	0.45
1:G:719:THR:O	1:G:723:LYS:CB	2.65	0.45
1:I:108:ASP:N	1:I:108:ASP:OD1	2.49	0.45
1:I:128:ASP:HA	1:I:137:VAL:O	2.15	0.45
1:I:273:ILE:HD11	1:I:307:SER:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:55:PRO:HB2	1:J:56:ARG:HG3	1.98	0.45
1:J:347:GLU:HG2	1:J:349:VAL:H	1.81	0.45
1:L:792:ALA:O	1:L:796:LYS:HG2	2.16	0.45
1:M:706:LEU:HD22	1:M:707:LEU:HD22	1.97	0.45
1:M:779:LEU:HD11	1:N:777:LEU:HD11	1.99	0.45
1:O:719:THR:O	1:O:723:LYS:CB	2.65	0.45
1:Q:518:LEU:HB2	1:Q:547:PHE:HB2	1.99	0.45
1:R:464:HIS:HB3	1:S:562:PHE:HE2	1.82	0.45
1:R:531:THR:HG22	1:R:588:PHE:CE1	2.52	0.45
1:R:802:LEU:HD22	1:R:807:ILE:HG23	1.97	0.45
1:S:660:LEU:O	1:S:664:ILE:HG23	2.16	0.45
1:T:719:THR:O	1:T:723:LYS:CB	2.65	0.45
1:T:772:TYR:HE1	1:U:770:LEU:HD23	1.79	0.45
1:W:464:HIS:HB3	1:X:562:PHE:HE2	1.82	0.45
1:W:518:LEU:HB2	1:W:547:PHE:HB2	1.99	0.45
1:X:779:LEU:HD13	1:Y:774:ARG:HE	1.82	0.45
1:X:801:ALA:HB3	1:Y:796:LYS:NZ	2.31	0.45
1:Y:108:ASP:N	1:Y:108:ASP:OD1	2.48	0.45
1:Y:743:GLN:N	1:Z:734:ARG:HH12	2.13	0.45
1:a:743:GLN:N	1:b:734:ARG:HH12	2.13	0.45
1:a:801:ALA:HB3	1:b:796:LYS:NZ	2.31	0.45
1:d:175:ARG:CZ	1:d:263:VAL:HG12	2.47	0.45
1:d:504:ARG:HB3	1:d:505:PRO:HD3	1.98	0.45
1:f:237:ASP:OD1	1:f:241:VAL:N	2.44	0.45
1:f:273:ILE:HD11	1:f:307:SER:HB3	1.99	0.45
1:f:531:THR:HG22	1:f:588:PHE:CE1	2.52	0.45
1:g:175:ARG:CZ	1:g:263:VAL:HG12	2.47	0.45
1:g:303:LYS:HG2	1:g:304:GLY:N	2.32	0.45
1:g:458:VAL:HG23	1:g:489:LEU:HB2	1.97	0.45
1:h:458:VAL:HG23	1:h:489:LEU:HB2	1.97	0.45
1:i:705:GLU:HA	1:i:708:GLU:CD	2.41	0.45
1:i:719:THR:O	1:i:723:LYS:CB	2.64	0.45
1:j:303:LYS:HG2	1:j:304:GLY:N	2.32	0.45
1:k:719:THR:O	1:k:723:LYS:CB	2.65	0.45
1:m:504:ARG:HB3	1:m:505:PRO:HD3	1.98	0.45
1:m:594:ASN:HA	1:m:597:ARG:NH2	2.31	0.45
1:A:777:LEU:HD11	1:m:779:LEU:HD11	1.99	0.45
1:D:592:HIS:NE2	1:E:531:THR:O	2.50	0.45
1:D:801:ALA:HB3	1:E:796:LYS:NZ	2.31	0.45
1:E:464:HIS:HB3	1:F:562:PHE:HE2	1.82	0.45
1:H:175:ARG:CZ	1:H:263:VAL:HG12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:382:LEU:HB2	1:H:405:THR:HA	1.99	0.45
1:I:713:SER:HA	1:J:704:LYS:HZ2	1.81	0.45
1:I:792:ALA:O	1:I:796:LYS:HG2	2.16	0.45
1:J:705:GLU:HA	1:J:708:GLU:CD	2.41	0.45
1:J:779:LEU:HD11	1:K:777:LEU:HD11	1.99	0.45
1:K:56:ARG:HG2	1:L:127:LEU:HG	1.99	0.45
1:L:504:ARG:HB3	1:L:505:PRO:HD3	1.98	0.45
1:M:660:LEU:O	1:M:664:ILE:HG23	2.16	0.45
1:M:705:GLU:HA	1:M:708:GLU:CD	2.41	0.45
1:N:119:THR:OG1	1:N:163:ILE:O	2.25	0.45
1:N:464:HIS:HB3	1:O:562:PHE:HE2	1.82	0.45
1:N:518:LEU:HB2	1:N:547:PHE:HB2	1.99	0.45
1:N:779:LEU:HD11	1:O:777:LEU:HD11	1.99	0.45
1:O:594:ASN:HA	1:O:597:ARG:NH2	2.31	0.45
1:O:779:LEU:HD13	1:P:774:ARG:HE	1.82	0.45
1:P:464:HIS:HB3	1:Q:562:PHE:HE2	1.82	0.45
1:R:719:THR:O	1:R:723:LYS:CB	2.64	0.45
1:R:792:ALA:O	1:R:796:LYS:HG2	2.16	0.45
1:S:108:ASP:OD1	1:S:108:ASP:N	2.49	0.45
1:T:382:LEU:HB2	1:T:405:THR:HA	1.99	0.45
1:U:175:ARG:CZ	1:U:263:VAL:HG12	2.47	0.45
1:U:594:ASN:OD1	1:U:597:ARG:NE	2.46	0.45
1:U:660:LEU:O	1:U:664:ILE:HG23	2.16	0.45
1:V:55:PRO:HB2	1:V:56:ARG:HG3	1.98	0.45
1:V:303:LYS:HG2	1:V:304:GLY:N	2.32	0.45
1:V:382:LEU:HB2	1:V:405:THR:HA	1.98	0.45
1:V:801:ALA:HB3	1:W:796:LYS:NZ	2.31	0.45
1:Z:719:THR:O	1:Z:723:LYS:CB	2.64	0.45
1:c:458:VAL:HG23	1:c:489:LEU:HB2	1.97	0.45
1:c:705:GLU:HA	1:c:708:GLU:CD	2.41	0.45
1:c:764:LYS:HG3	1:d:759:LEU:HD11	1.97	0.45
1:c:792:ALA:O	1:c:796:LYS:HG2	2.16	0.45
1:d:56:ARG:HG2	1:e:127:LEU:HG	1.99	0.45
1:d:303:LYS:HG2	1:d:304:GLY:N	2.32	0.45
1:e:55:PRO:HB2	1:e:56:ARG:HG3	1.98	0.45
1:f:108:ASP:N	1:f:108:ASP:OD1	2.48	0.45
1:g:464:HIS:HB3	1:h:562:PHE:HE2	1.82	0.45
1:g:743:GLN:N	1:h:734:ARG:HH12	2.13	0.45
1:h:303:LYS:HG2	1:h:304:GLY:N	2.32	0.45
1:h:801:ALA:HB3	1:i:796:LYS:NZ	2.31	0.45
1:i:55:PRO:HB2	1:i:56:ARG:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:145:PHE:CE2	1:j:151:TYR:HB2	2.50	0.45
1:j:660:LEU:O	1:j:664:ILE:HG23	2.16	0.45
1:k:382:LEU:HB2	1:k:405:THR:HA	1.99	0.45
1:l:56:ARG:HG2	1:m:127:LEU:HG	1.99	0.45
1:m:273:ILE:HD11	1:m:307:SER:HB3	1.99	0.45
1:m:518:LEU:HB2	1:m:547:PHE:HB2	1.99	0.45
1:m:660:LEU:O	1:m:664:ILE:HG23	2.16	0.45
1:B:175:ARG:CZ	1:B:263:VAL:HG12	2.47	0.45
1:B:464:HIS:HB3	1:C:562:PHE:HE2	1.82	0.45
1:B:713:SER:O	1:B:716:VAL:N	2.50	0.45
1:B:801:ALA:HB3	1:C:796:LYS:NZ	2.31	0.45
1:C:175:ARG:CZ	1:C:263:VAL:HG12	2.47	0.45
1:D:273:ILE:HD11	1:D:307:SER:HB3	1.99	0.45
1:D:663:GLU:O	1:D:666:THR:OG1	2.26	0.45
1:D:705:GLU:HA	1:D:708:GLU:CD	2.41	0.45
1:F:175:ARG:CZ	1:F:263:VAL:HG12	2.47	0.45
1:H:592:HIS:NE2	1:I:531:THR:O	2.50	0.45
1:H:719:THR:O	1:H:723:LYS:CB	2.65	0.45
1:H:801:ALA:HB3	1:I:796:LYS:NZ	2.31	0.45
1:I:382:LEU:HB2	1:I:405:THR:HA	1.99	0.45
1:I:779:LEU:HD11	1:J:777:LEU:HD11	1.99	0.45
1:J:464:HIS:HB3	1:K:562:PHE:HE2	1.82	0.45
1:J:779:LEU:HD13	1:K:774:ARG:HE	1.82	0.45
1:K:594:ASN:HA	1:K:597:ARG:NH2	2.31	0.45
1:L:779:LEU:HD11	1:M:777:LEU:HD11	1.99	0.45
1:N:592:HIS:NE2	1:O:531:THR:O	2.50	0.45
1:O:770:LEU:HB2	1:O:774:ARG:NH1	2.22	0.45
1:O:772:TYR:HE1	1:P:770:LEU:HD23	1.79	0.45
1:Q:713:SER:O	1:Q:716:VAL:N	2.50	0.45
1:S:779:LEU:HD13	1:T:774:ARG:HE	1.82	0.45
1:T:464:HIS:HB3	1:U:562:PHE:HE2	1.82	0.45
1:T:660:LEU:O	1:T:664:ILE:HG23	2.16	0.45
1:V:780:GLU:HG3	1:V:783:LYS:HZ3	1.82	0.45
1:W:801:ALA:HB3	1:X:796:LYS:NZ	2.31	0.45
1:X:56:ARG:HG2	1:Y:127:LEU:HG	1.99	0.45
1:X:273:ILE:HD11	1:X:307:SER:HB3	1.99	0.45
1:X:531:THR:HG22	1:X:588:PHE:CE1	2.52	0.45
1:X:743:GLN:N	1:Y:734:ARG:HH12	2.13	0.45
1:Y:594:ASN:HA	1:Y:597:ARG:NH2	2.31	0.45
1:Z:55:PRO:HB2	1:Z:56:ARG:HG3	1.98	0.45
1:Z:764:LYS:HG3	1:a:759:LEU:HD11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:175:ARG:CZ	1:b:263:VAL:HG12	2.47	0.45
1:c:108:ASP:OD1	1:c:108:ASP:N	2.49	0.45
1:d:392:ASP:O	1:d:396:GLY:N	2.40	0.45
1:d:705:GLU:HA	1:d:708:GLU:CD	2.41	0.45
1:e:458:VAL:HG23	1:e:489:LEU:HB2	1.97	0.45
1:e:464:HIS:HB3	1:f:562:PHE:HE2	1.82	0.45
1:f:303:LYS:HG2	1:f:304:GLY:N	2.32	0.45
1:h:464:HIS:HB3	1:i:562:PHE:HE2	1.82	0.45
1:i:518:LEU:HB2	1:i:547:PHE:HB2	1.99	0.45
1:j:504:ARG:HB3	1:j:505:PRO:HD3	1.98	0.45
1:j:592:HIS:NE2	1:k:531:THR:O	2.50	0.45
1:k:464:HIS:HB3	1:l:562:PHE:HE2	1.82	0.45
1:l:175:ARG:CZ	1:l:263:VAL:HG12	2.47	0.45
1:l:303:LYS:HG2	1:l:304:GLY:N	2.32	0.45
1:l:504:ARG:HB3	1:l:505:PRO:HD3	1.98	0.45
1:l:779:LEU:HD13	1:m:774:ARG:HE	1.82	0.45
1:m:319:GLY:H	1:m:321:GLN:NE2	2.15	0.45
1:m:392:ASP:O	1:m:396:GLY:N	2.40	0.45
1:A:127:LEU:HG	1:m:56:ARG:HG2	1.99	0.45
1:C:273:ILE:HD11	1:C:307:SER:HB3	1.99	0.45
1:D:347:GLU:HG2	1:D:349:VAL:H	1.81	0.45
1:E:592:HIS:NE2	1:F:531:THR:O	2.50	0.45
1:E:705:GLU:HA	1:E:708:GLU:CD	2.41	0.45
1:E:713:SER:O	1:E:716:VAL:N	2.50	0.45
1:G:319:GLY:H	1:G:321:GLN:NE2	2.15	0.45
1:G:660:LEU:O	1:G:664:ILE:HG23	2.16	0.45
1:G:801:ALA:HB3	1:H:796:LYS:NZ	2.31	0.45
1:H:273:ILE:HD11	1:H:307:SER:HB3	1.99	0.45
1:H:319:GLY:H	1:H:321:GLN:NE2	2.15	0.45
1:I:719:THR:O	1:I:723:LYS:CB	2.64	0.45
1:J:108:ASP:OD1	1:J:108:ASP:N	2.49	0.45
1:J:713:SER:O	1:J:716:VAL:N	2.50	0.45
1:K:719:THR:O	1:K:723:LYS:CB	2.64	0.45
1:K:779:LEU:HD11	1:L:777:LEU:HD11	1.99	0.45
1:L:319:GLY:H	1:L:321:GLN:NE2	2.15	0.45
1:M:55:PRO:HB2	1:M:56:ARG:HG3	1.98	0.45
1:M:303:LYS:HG2	1:M:304:GLY:N	2.32	0.45
1:M:319:GLY:H	1:M:321:GLN:NE2	2.15	0.45
1:M:347:GLU:HG2	1:M:349:VAL:H	1.81	0.45
1:M:802:LEU:HD22	1:M:807:ILE:HG23	1.97	0.45
1:N:779:LEU:HD13	1:O:774:ARG:HE	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:592:HIS:NE2	1:P:531:THR:O	2.50	0.45
1:P:319:GLY:H	1:P:321:GLN:NE2	2.15	0.45
1:R:319:GLY:H	1:R:321:GLN:NE2	2.15	0.45
1:R:779:LEU:HD11	1:S:777:LEU:HD11	1.99	0.45
1:U:56:ARG:HG2	1:V:127:LEU:HG	1.99	0.45
1:U:713:SER:O	1:U:716:VAL:N	2.50	0.45
1:V:705:GLU:HA	1:V:708:GLU:CD	2.41	0.45
1:W:531:THR:HG22	1:W:588:PHE:CE1	2.52	0.45
1:W:592:HIS:NE2	1:X:531:THR:O	2.50	0.45
1:W:719:THR:O	1:W:723:LYS:CB	2.64	0.45
1:W:779:LEU:HD11	1:X:777:LEU:HD11	1.99	0.45
1:W:794:LYS:HD2	1:X:788:ALA:CB	2.47	0.45
1:Y:531:THR:HG22	1:Y:588:PHE:CE1	2.52	0.45
1:Y:594:ASN:OD1	1:Y:597:ARG:NE	2.46	0.45
1:Z:319:GLY:H	1:Z:321:GLN:NE2	2.15	0.45
1:Z:518:LEU:HB2	1:Z:547:PHE:HB2	1.99	0.45
1:Z:592:HIS:NE2	1:a:531:THR:O	2.50	0.45
1:Z:794:LYS:HD2	1:a:788:ALA:CB	2.47	0.45
1:b:453:ASN:OD1	1:b:455:THR:OG1	2.24	0.45
1:b:713:SER:O	1:b:716:VAL:N	2.50	0.45
1:b:719:THR:O	1:b:723:LYS:CB	2.65	0.45
1:b:764:LYS:HG3	1:c:759:LEU:HD11	1.97	0.45
1:c:303:LYS:HG2	1:c:304:GLY:N	2.32	0.45
1:c:719:THR:O	1:c:723:LYS:CB	2.64	0.45
1:e:56:ARG:HG2	1:f:127:LEU:HG	1.99	0.45
1:f:56:ARG:HG2	1:g:127:LEU:HG	1.99	0.45
1:f:592:HIS:NE2	1:g:531:THR:O	2.50	0.45
1:f:794:LYS:HD2	1:g:788:ALA:CB	2.47	0.45
1:h:504:ARG:HB3	1:h:505:PRO:HD3	1.98	0.45
1:h:594:ASN:HA	1:h:597:ARG:NH2	2.31	0.45
1:i:319:GLY:H	1:i:321:GLN:NE2	2.15	0.45
1:i:713:SER:O	1:i:716:VAL:N	2.50	0.45
1:i:779:LEU:HD11	1:j:777:LEU:HD11	1.99	0.45
1:l:518:LEU:HB2	1:l:547:PHE:HB2	1.99	0.45
1:A:779:LEU:HD11	1:B:777:LEU:HD11	1.99	0.45
1:A:788:ALA:CB	1:m:794:LYS:HD2	2.47	0.45
1:C:504:ARG:HB3	1:C:505:PRO:HD3	1.98	0.45
1:D:56:ARG:HG2	1:E:127:LEU:HG	1.99	0.45
1:D:719:THR:O	1:D:723:LYS:CB	2.64	0.45
1:D:779:LEU:HD11	1:E:777:LEU:HD11	1.99	0.45
1:E:303:LYS:HG2	1:E:304:GLY:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:794:LYS:HD2	1:F:788:ALA:CB	2.47	0.45
1:F:594:ASN:HA	1:F:597:ARG:NH2	2.31	0.45
1:G:464:HIS:HB3	1:H:562:PHE:HE2	1.82	0.45
1:G:779:LEU:HD13	1:H:774:ARG:HE	1.82	0.45
1:H:779:LEU:HD11	1:I:777:LEU:HD11	1.99	0.45
1:I:319:GLY:H	1:I:321:GLN:NE2	2.15	0.45
1:I:713:SER:O	1:I:716:VAL:N	2.50	0.45
1:K:55:PRO:HB2	1:K:56:ARG:HG3	1.99	0.45
1:K:303:LYS:HG2	1:K:304:GLY:N	2.32	0.45
1:N:175:ARG:CZ	1:N:263:VAL:HG12	2.47	0.45
1:N:303:LYS:HG2	1:N:304:GLY:N	2.32	0.45
1:N:382:LEU:HB2	1:N:405:THR:HA	1.99	0.45
1:N:772:TYR:HE1	1:O:770:LEU:HD23	1.79	0.45
1:O:319:GLY:H	1:O:321:GLN:NE2	2.15	0.45
1:P:382:LEU:HB2	1:P:405:THR:HA	1.99	0.45
1:Q:319:GLY:H	1:Q:321:GLN:NE2	2.15	0.45
1:Q:794:LYS:HD2	1:R:788:ALA:CB	2.47	0.45
1:T:713:SER:O	1:T:716:VAL:N	2.50	0.45
1:U:303:LYS:HG2	1:U:304:GLY:N	2.32	0.45
1:V:531:THR:HG22	1:V:588:PHE:CE1	2.52	0.45
1:V:660:LEU:O	1:V:664:ILE:HG23	2.16	0.45
1:V:779:LEU:HD11	1:W:777:LEU:HD11	1.99	0.45
1:V:794:LYS:HD2	1:W:788:ALA:CB	2.47	0.45
1:Y:303:LYS:HG2	1:Y:304:GLY:N	2.32	0.45
1:Z:237:ASP:OD1	1:Z:241:VAL:N	2.44	0.45
1:a:713:SER:O	1:a:716:VAL:N	2.50	0.45
1:c:56:ARG:HG2	1:d:127:LEU:HG	1.99	0.45
1:c:713:SER:O	1:c:716:VAL:N	2.50	0.45
1:c:779:LEU:HD13	1:d:774:ARG:HE	1.82	0.45
1:d:319:GLY:H	1:d:321:GLN:NE2	2.15	0.45
1:d:347:GLU:HG2	1:d:349:VAL:H	1.81	0.45
1:e:175:ARG:CZ	1:e:263:VAL:HG12	2.47	0.45
1:e:719:THR:O	1:e:723:LYS:CB	2.64	0.45
1:e:779:LEU:HD11	1:f:777:LEU:HD11	1.99	0.45
1:f:801:ALA:HB3	1:g:796:LYS:NZ	2.31	0.45
1:g:56:ARG:HG2	1:h:127:LEU:HG	1.99	0.45
1:h:319:GLY:H	1:h:321:GLN:NE2	2.15	0.45
1:i:56:ARG:HG2	1:j:127:LEU:HG	1.99	0.45
1:i:273:ILE:HD11	1:i:307:SER:HB3	1.99	0.45
1:i:660:LEU:O	1:i:664:ILE:HG23	2.16	0.45
1:j:56:ARG:HG2	1:k:127:LEU:HG	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:273:ILE:HD11	1:j:307:SER:HB3	1.99	0.45
1:l:273:ILE:HD11	1:l:307:SER:HB3	1.99	0.45
1:l:719:THR:O	1:l:723:LYS:CB	2.64	0.45
1:m:108:ASP:OD1	1:m:108:ASP:N	2.48	0.45
1:A:175:ARG:CZ	1:A:263:VAL:HG12	2.47	0.44
1:A:774:ARG:HE	1:m:779:LEU:HD13	1.82	0.44
1:B:772:TYR:HE1	1:C:770:LEU:HD23	1.79	0.44
1:B:794:LYS:HD2	1:C:788:ALA:CB	2.47	0.44
1:C:660:LEU:O	1:C:664:ILE:HG23	2.16	0.44
1:F:713:SER:O	1:F:716:VAL:N	2.50	0.44
1:G:382:LEU:HB2	1:G:405:THR:HA	1.99	0.44
1:H:56:ARG:HG2	1:I:127:LEU:HG	1.99	0.44
1:H:303:LYS:HG2	1:H:304:GLY:N	2.32	0.44
1:H:779:LEU:HD13	1:I:774:ARG:HE	1.82	0.44
1:I:592:HIS:NE2	1:J:531:THR:O	2.50	0.44
1:J:56:ARG:HG2	1:K:127:LEU:HG	1.99	0.44
1:J:273:ILE:HD11	1:J:307:SER:HB3	1.99	0.44
1:J:319:GLY:H	1:J:321:GLN:NE2	2.15	0.44
1:J:518:LEU:HB2	1:J:547:PHE:HB2	1.99	0.44
1:J:794:LYS:HD2	1:K:788:ALA:CB	2.47	0.44
1:L:794:LYS:HD2	1:M:788:ALA:CB	2.47	0.44
1:L:801:ALA:HB3	1:M:796:LYS:NZ	2.31	0.44
1:M:531:THR:HG22	1:M:588:PHE:CE1	2.52	0.44
1:N:713:SER:O	1:N:716:VAL:N	2.50	0.44
1:O:175:ARG:CZ	1:O:263:VAL:HG12	2.47	0.44
1:O:531:THR:HG22	1:O:588:PHE:CE1	2.52	0.44
1:R:175:ARG:CZ	1:R:263:VAL:HG12	2.47	0.44
1:R:504:ARG:HB3	1:R:505:PRO:HD3	1.98	0.44
1:R:713:SER:O	1:R:716:VAL:N	2.50	0.44
1:T:319:GLY:H	1:T:321:GLN:NE2	2.15	0.44
1:U:382:LEU:HB2	1:U:405:THR:HA	1.99	0.44
1:V:56:ARG:HG2	1:W:127:LEU:HG	1.99	0.44
1:V:464:HIS:HB3	1:W:562:PHE:HE2	1.82	0.44
1:V:518:LEU:HB2	1:V:547:PHE:HB2	1.99	0.44
1:W:792:ALA:O	1:W:796:LYS:HG2	2.16	0.44
1:Y:56:ARG:HG2	1:Z:127:LEU:HG	1.99	0.44
1:Y:737:GLY:O	1:Y:740:SER:OG	2.28	0.44
1:Y:779:LEU:HD11	1:Z:777:LEU:HD11	1.99	0.44
1:Y:794:LYS:HD2	1:Z:788:ALA:CB	2.47	0.44
1:Z:382:LEU:HB2	1:Z:405:THR:HA	1.99	0.44
1:a:779:LEU:HD11	1:b:777:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:794:LYS:HD2	1:b:788:ALA:CB	2.47	0.44
1:b:273:ILE:HD11	1:b:307:SER:HB3	1.99	0.44
1:b:464:HIS:HB3	1:c:562:PHE:HE2	1.82	0.44
1:c:273:ILE:HD11	1:c:307:SER:HB3	1.99	0.44
1:c:660:LEU:O	1:c:664:ILE:HG23	2.16	0.44
1:c:801:ALA:HB3	1:d:796:LYS:NZ	2.31	0.44
1:d:660:LEU:O	1:d:664:ILE:HG23	2.16	0.44
1:e:273:ILE:HD11	1:e:307:SER:HB3	1.99	0.44
1:e:382:LEU:HB2	1:e:405:THR:HA	1.99	0.44
1:g:592:HIS:NE2	1:h:531:THR:O	2.50	0.44
1:h:56:ARG:HG2	1:i:127:LEU:HG	1.99	0.44
1:h:531:THR:HG22	1:h:588:PHE:CE1	2.52	0.44
1:k:55:PRO:HB2	1:k:56:ARG:HG3	1.99	0.44
1:k:592:HIS:NE2	1:l:531:THR:O	2.50	0.44
1:k:705:GLU:HA	1:k:708:GLU:CD	2.41	0.44
1:l:660:LEU:O	1:l:664:ILE:HG23	2.16	0.44
1:A:273:ILE:HD11	1:A:307:SER:HB3	1.99	0.44
1:A:458:VAL:HG23	1:A:489:LEU:HB2	1.97	0.44
1:A:531:THR:HG22	1:A:588:PHE:CE1	2.52	0.44
1:A:737:GLY:O	1:A:740:SER:OG	2.28	0.44
1:B:382:LEU:HB2	1:B:405:THR:HA	1.99	0.44
1:B:792:ALA:O	1:B:796:LYS:HG2	2.16	0.44
1:C:303:LYS:HG2	1:C:304:GLY:N	2.32	0.44
1:C:686:GLY:HA2	1:C:689:GLU:OE1	2.18	0.44
1:E:779:LEU:HD11	1:F:777:LEU:HD11	1.99	0.44
1:F:303:LYS:HG2	1:F:304:GLY:N	2.32	0.44
1:F:504:ARG:HB3	1:F:505:PRO:HD3	1.98	0.44
1:G:273:ILE:HD11	1:G:307:SER:HB3	1.99	0.44
1:I:686:GLY:HA2	1:I:689:GLU:OE1	2.18	0.44
1:K:518:LEU:HB2	1:K:547:PHE:HB2	1.99	0.44
1:L:303:LYS:HG2	1:L:304:GLY:N	2.32	0.44
1:L:531:THR:HG22	1:L:588:PHE:CE1	2.52	0.44
1:Q:594:ASN:HA	1:Q:597:ARG:NH2	2.31	0.44
1:R:55:PRO:HB2	1:R:56:ARG:HG3	1.98	0.44
1:R:518:LEU:HB2	1:R:547:PHE:HB2	1.99	0.44
1:R:737:GLY:O	1:R:740:SER:OG	2.28	0.44
1:R:777:LEU:HA	1:R:780:GLU:OE1	2.15	0.44
1:T:56:ARG:HG2	1:U:127:LEU:HG	1.99	0.44
1:U:319:GLY:H	1:U:321:GLN:NE2	2.15	0.44
1:U:464:HIS:HB3	1:V:562:PHE:HE2	1.82	0.44
1:W:382:LEU:HB2	1:W:405:THR:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:792:ALA:O	1:X:796:LYS:HG2	2.16	0.44
1:Y:319:GLY:H	1:Y:321:GLN:NE2	2.15	0.44
1:Y:504:ARG:HB3	1:Y:505:PRO:HD3	1.98	0.44
1:Z:531:THR:HG22	1:Z:588:PHE:CE1	2.52	0.44
1:a:175:ARG:CZ	1:a:263:VAL:HG12	2.47	0.44
1:a:464:HIS:HB3	1:b:562:PHE:HE2	1.82	0.44
1:a:665:THR:OG1	1:b:589:ASP:OD2	2.19	0.44
1:a:686:GLY:HA2	1:a:689:GLU:OE1	2.18	0.44
1:d:686:GLY:HA2	1:d:689:GLU:OE1	2.18	0.44
1:d:779:LEU:HD11	1:e:777:LEU:HD11	1.99	0.44
1:d:794:LYS:HD2	1:e:788:ALA:CB	2.47	0.44
1:e:319:GLY:H	1:e:321:GLN:NE2	2.15	0.44
1:e:518:LEU:HB2	1:e:547:PHE:HB2	1.99	0.44
1:e:660:LEU:O	1:e:664:ILE:HG23	2.16	0.44
1:f:594:ASN:OD1	1:f:597:ARG:NE	2.46	0.44
1:f:779:LEU:HD11	1:g:777:LEU:HD11	1.99	0.44
1:g:273:ILE:HD11	1:g:307:SER:HB3	1.99	0.44
1:g:453:ASN:OD1	1:g:455:THR:OG1	2.24	0.44
1:g:713:SER:O	1:g:716:VAL:N	2.50	0.44
1:h:175:ARG:CZ	1:h:263:VAL:HG12	2.47	0.44
1:h:713:SER:O	1:h:716:VAL:N	2.50	0.44
1:h:719:THR:O	1:h:723:LYS:CB	2.65	0.44
1:i:592:HIS:NE2	1:j:531:THR:O	2.50	0.44
1:j:686:GLY:HA2	1:j:689:GLU:OE1	2.18	0.44
1:j:713:SER:O	1:j:716:VAL:N	2.50	0.44
1:k:660:LEU:O	1:k:664:ILE:HG23	2.16	0.44
1:l:319:GLY:H	1:l:321:GLN:NE2	2.15	0.44
1:l:801:ALA:HB3	1:m:796:LYS:NZ	2.31	0.44
1:m:686:GLY:HA2	1:m:689:GLU:OE1	2.18	0.44
1:A:713:SER:O	1:A:716:VAL:N	2.50	0.44
1:C:56:ARG:HG2	1:D:127:LEU:HG	1.99	0.44
1:C:464:HIS:HB3	1:D:562:PHE:HE2	1.82	0.44
1:C:713:SER:O	1:C:716:VAL:N	2.50	0.44
1:C:792:ALA:O	1:C:796:LYS:HG2	2.16	0.44
1:E:504:ARG:HB3	1:E:505:PRO:HD3	1.98	0.44
1:F:56:ARG:HG2	1:G:127:LEU:HG	1.99	0.44
1:F:564:VAL:HB	1:F:631:ASN:ND2	2.33	0.44
1:F:794:LYS:HD2	1:G:788:ALA:CB	2.47	0.44
1:G:686:GLY:HA2	1:G:689:GLU:OE1	2.18	0.44
1:G:779:LEU:HD11	1:H:777:LEU:HD11	1.99	0.44
1:H:686:GLY:HA2	1:H:689:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:382:LEU:HB2	1:J:405:THR:HA	1.98	0.44
1:K:801:ALA:HB3	1:L:796:LYS:NZ	2.31	0.44
1:L:540:GLN:NE2	1:L:541:LEU:O	2.51	0.44
1:L:686:GLY:HA2	1:L:689:GLU:OE1	2.18	0.44
1:N:564:VAL:HB	1:N:631:ASN:ND2	2.33	0.44
1:O:464:HIS:HB3	1:P:562:PHE:HE2	1.82	0.44
1:O:779:LEU:HD11	1:P:777:LEU:HD11	1.99	0.44
1:P:56:ARG:HG2	1:Q:127:LEU:HG	1.99	0.44
1:Q:779:LEU:HD13	1:R:774:ARG:HE	1.82	0.44
1:R:383:ASP:OD1	1:S:391:GLN:NE2	2.50	0.44
1:R:660:LEU:O	1:R:664:ILE:HG23	2.16	0.44
1:S:506:LYS:HZ3	1:S:525:ASP:HB2	1.82	0.44
1:T:686:GLY:HA2	1:T:689:GLU:OE1	2.18	0.44
1:U:779:LEU:HD13	1:V:774:ARG:HE	1.81	0.44
1:U:801:ALA:HB3	1:V:796:LYS:NZ	2.31	0.44
1:V:273:ILE:HD11	1:V:307:SER:HB3	1.99	0.44
1:W:303:LYS:HG2	1:W:304:GLY:N	2.32	0.44
1:W:713:SER:O	1:W:716:VAL:N	2.50	0.44
1:X:794:LYS:HD2	1:Y:788:ALA:CB	2.47	0.44
1:Z:383:ASP:OD1	1:a:391:GLN:NE2	2.50	0.44
1:a:594:ASN:HA	1:a:597:ARG:NH2	2.31	0.44
1:b:540:GLN:NE2	1:b:541:LEU:O	2.51	0.44
1:c:319:GLY:H	1:c:321:GLN:NE2	2.15	0.44
1:c:329:GLN:HA	1:c:360:ARG:HH22	1.83	0.44
1:d:792:ALA:O	1:d:796:LYS:HG2	2.16	0.44
1:e:594:ASN:HA	1:e:597:ARG:NH2	2.31	0.44
1:e:705:GLU:HA	1:e:708:GLU:CD	2.41	0.44
1:e:772:TYR:HE1	1:f:770:LEU:HD23	1.79	0.44
1:f:713:SER:O	1:f:716:VAL:N	2.50	0.44
1:h:382:LEU:HB2	1:h:405:THR:HA	1.99	0.44
1:i:383:ASP:OD1	1:j:391:GLN:NE2	2.50	0.44
1:C:319:GLY:H	1:C:321:GLN:NE2	2.15	0.44
1:C:705:GLU:HA	1:C:708:GLU:CD	2.41	0.44
1:D:743:GLN:HA	1:D:746:LEU:HG	2.00	0.44
1:E:319:GLY:H	1:E:321:GLN:NE2	2.15	0.44
1:E:344:GLU:OE2	1:E:370:LYS:HD3	2.18	0.44
1:F:705:GLU:HA	1:F:708:GLU:CD	2.41	0.44
1:G:175:ARG:CZ	1:G:263:VAL:HG12	2.47	0.44
1:G:329:GLN:HA	1:G:360:ARG:HH22	1.83	0.44
1:L:382:LEU:HB2	1:L:405:THR:HA	1.98	0.44
1:M:686:GLY:HA2	1:M:689:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:713:SER:O	1:M:716:VAL:N	2.50	0.44
1:P:344:GLU:OE2	1:P:370:LYS:HD3	2.18	0.44
1:P:794:LYS:HD2	1:Q:788:ALA:CB	2.47	0.44
1:R:564:VAL:HB	1:R:631:ASN:ND2	2.33	0.44
1:R:592:HIS:NE2	1:S:531:THR:O	2.50	0.44
1:R:794:LYS:HD2	1:S:788:ALA:CB	2.47	0.44
1:S:382:LEU:HB2	1:S:405:THR:HA	1.99	0.44
1:U:273:ILE:HD11	1:U:307:SER:HB3	1.99	0.44
1:U:686:GLY:HA2	1:U:689:GLU:OE1	2.18	0.44
1:U:719:THR:O	1:U:723:LYS:CB	2.64	0.44
1:V:779:LEU:HD13	1:W:774:ARG:HE	1.82	0.44
1:W:175:ARG:CZ	1:W:263:VAL:HG12	2.47	0.44
1:Y:273:ILE:HD11	1:Y:307:SER:HB3	1.99	0.44
1:Z:713:SER:O	1:Z:716:VAL:N	2.50	0.44
1:a:303:LYS:HG2	1:a:304:GLY:N	2.32	0.44
1:a:319:GLY:H	1:a:321:GLN:NE2	2.15	0.44
1:a:592:HIS:NE2	1:b:531:THR:O	2.50	0.44
1:b:56:ARG:HG2	1:c:127:LEU:HG	1.99	0.44
1:b:108:ASP:OD1	1:b:108:ASP:N	2.49	0.44
1:b:660:LEU:O	1:b:664:ILE:HG23	2.16	0.44
1:c:382:LEU:HB2	1:c:405:THR:HA	1.99	0.44
1:c:665:THR:OG1	1:d:589:ASP:OD2	2.19	0.44
1:d:540:GLN:NE2	1:d:541:LEU:O	2.51	0.44
1:e:329:GLN:HA	1:e:360:ARG:HH22	1.83	0.44
1:g:329:GLN:HA	1:g:360:ARG:HH22	1.83	0.44
1:h:56:ARG:NH2	1:i:156:GLU:HA	2.32	0.44
1:h:794:LYS:HD2	1:i:788:ALA:CB	2.47	0.44
1:i:686:GLY:HA2	1:i:689:GLU:OE1	2.18	0.44
1:i:794:LYS:HD2	1:j:788:ALA:CB	2.47	0.44
1:i:801:ALA:HB3	1:j:796:LYS:NZ	2.31	0.44
1:j:319:GLY:H	1:j:321:GLN:NE2	2.15	0.44
1:k:564:VAL:HB	1:k:631:ASN:ND2	2.33	0.44
1:l:713:SER:O	1:l:716:VAL:N	2.50	0.44
1:m:705:GLU:HA	1:m:708:GLU:CD	2.41	0.44
1:A:383:ASP:OD1	1:B:391:GLN:NE2	2.50	0.44
1:A:686:GLY:HA2	1:A:689:GLU:OE1	2.18	0.44
1:A:743:GLN:HA	1:A:746:LEU:HG	2.00	0.44
1:A:794:LYS:HD2	1:B:788:ALA:CB	2.47	0.44
1:E:329:GLN:HA	1:E:360:ARG:HH22	1.83	0.44
1:E:594:ASN:HA	1:E:597:ARG:NH2	2.31	0.44
1:F:319:GLY:H	1:F:321:GLN:NE2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:779:LEU:HD13	1:G:774:ARG:HE	1.82	0.44
1:G:743:GLN:HA	1:G:746:LEU:HG	2.00	0.44
1:H:347:GLU:HG2	1:H:349:VAL:H	1.81	0.44
1:H:540:GLN:NE2	1:H:541:LEU:O	2.51	0.44
1:I:303:LYS:HG2	1:I:304:GLY:N	2.32	0.44
1:I:329:GLN:HA	1:I:360:ARG:HH22	1.83	0.44
1:I:464:HIS:HB3	1:J:562:PHE:HE2	1.82	0.44
1:I:531:THR:HG22	1:I:588:PHE:CE1	2.52	0.44
1:I:540:GLN:NE2	1:I:541:LEU:O	2.51	0.44
1:J:792:ALA:O	1:J:796:LYS:HG2	2.16	0.44
1:K:504:ARG:HB3	1:K:505:PRO:HD3	1.98	0.44
1:K:792:ALA:O	1:K:796:LYS:HG2	2.16	0.44
1:L:55:PRO:HB2	1:L:56:ARG:HG3	1.98	0.44
1:L:743:GLN:HA	1:L:746:LEU:HG	2.00	0.44
1:N:686:GLY:HA2	1:N:689:GLU:OE1	2.18	0.44
1:O:329:GLN:HA	1:O:360:ARG:HH22	1.83	0.44
1:O:713:SER:O	1:O:716:VAL:N	2.50	0.44
1:O:743:GLN:HA	1:O:746:LEU:HG	2.00	0.44
1:O:794:LYS:HD2	1:P:788:ALA:CB	2.47	0.44
1:P:540:GLN:NE2	1:P:541:LEU:O	2.51	0.44
1:P:779:LEU:HD11	1:Q:777:LEU:HD11	1.99	0.44
1:Q:531:THR:HG22	1:Q:588:PHE:CE1	2.52	0.44
1:Q:592:HIS:NE2	1:R:531:THR:O	2.50	0.44
1:R:663:GLU:O	1:R:666:THR:OG1	2.26	0.44
1:S:175:ARG:CZ	1:S:263:VAL:HG12	2.47	0.44
1:S:319:GLY:H	1:S:321:GLN:NE2	2.15	0.44
1:S:540:GLN:NE2	1:S:541:LEU:O	2.51	0.44
1:S:779:LEU:HD11	1:T:777:LEU:HD11	1.99	0.44
1:T:794:LYS:HD2	1:U:788:ALA:CB	2.47	0.44
1:U:55:PRO:HB2	1:U:56:ARG:HG3	1.98	0.44
1:W:329:GLN:HA	1:W:360:ARG:HH22	1.83	0.44
1:W:660:LEU:O	1:W:664:ILE:HG23	2.16	0.44
1:W:779:LEU:HD13	1:X:774:ARG:HE	1.82	0.44
1:X:660:LEU:O	1:X:664:ILE:HG23	2.16	0.44
1:Y:329:GLN:HA	1:Y:360:ARG:HH22	1.83	0.44
1:Y:383:ASP:OD1	1:Z:391:GLN:NE2	2.50	0.44
1:Y:540:GLN:NE2	1:Y:541:LEU:O	2.51	0.44
1:Y:592:HIS:NE2	1:Z:531:THR:O	2.50	0.44
1:Z:175:ARG:CZ	1:Z:263:VAL:HG12	2.47	0.44
1:Z:344:GLU:OE2	1:Z:370:LYS:HD3	2.18	0.44
1:Z:464:HIS:HB3	1:a:562:PHE:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:779:LEU:HD11	1:a:777:LEU:HD11	1.99	0.44
1:a:329:GLN:HA	1:a:360:ARG:HH22	1.83	0.44
1:a:564:VAL:HB	1:a:631:ASN:ND2	2.33	0.44
1:b:80:GLN:HE22	1:b:101:PRO:HB2	1.83	0.44
1:b:686:GLY:HA2	1:b:689:GLU:OE1	2.18	0.44
1:c:504:ARG:HB3	1:c:505:PRO:HD3	1.98	0.44
1:c:743:GLN:HA	1:c:746:LEU:HG	2.00	0.44
1:d:531:THR:HG22	1:d:588:PHE:CE1	2.52	0.44
1:e:713:SER:O	1:e:716:VAL:N	2.50	0.44
1:g:794:LYS:HD2	1:h:788:ALA:CB	2.47	0.44
1:h:344:GLU:OE2	1:h:370:LYS:HD3	2.18	0.44
1:i:382:LEU:HB2	1:i:405:THR:HA	1.99	0.44
1:j:531:THR:HG22	1:j:588:PHE:CE1	2.52	0.44
1:k:779:LEU:HD11	1:l:777:LEU:HD11	1.99	0.44
1:k:794:LYS:HD2	1:l:788:ALA:CB	2.47	0.44
1:l:344:GLU:OE2	1:l:370:LYS:HD3	2.18	0.44
1:l:531:THR:HG22	1:l:588:PHE:CE1	2.52	0.44
1:m:303:LYS:HG2	1:m:304:GLY:N	2.32	0.44
1:m:540:GLN:NE2	1:m:541:LEU:O	2.51	0.44
1:A:80:GLN:HE22	1:A:101:PRO:HB2	1.83	0.44
1:A:665:THR:OG1	1:B:589:ASP:OD2	2.19	0.44
1:C:80:GLN:HE22	1:C:101:PRO:HB2	1.83	0.44
1:C:329:GLN:HA	1:C:360:ARG:HH22	1.83	0.44
1:C:779:LEU:HD11	1:D:777:LEU:HD11	1.99	0.44
1:D:344:GLU:OE2	1:D:370:LYS:HD3	2.18	0.44
1:H:794:LYS:HD2	1:I:788:ALA:CB	2.47	0.44
1:J:531:THR:HG22	1:J:588:PHE:CE1	2.52	0.44
1:K:713:SER:O	1:K:716:VAL:N	2.50	0.44
1:L:383:ASP:OD1	1:M:391:GLN:NE2	2.50	0.44
1:N:319:GLY:H	1:N:321:GLN:NE2	2.15	0.44
1:N:743:GLN:HA	1:N:746:LEU:HG	2.00	0.44
1:O:504:ARG:HB3	1:O:505:PRO:HD3	1.98	0.44
1:P:713:SER:O	1:P:716:VAL:N	2.50	0.44
1:P:743:GLN:HA	1:P:746:LEU:HG	2.00	0.44
1:Q:540:GLN:NE2	1:Q:541:LEU:O	2.51	0.44
1:Q:594:ASN:OD1	1:Q:597:ARG:NE	2.46	0.44
1:Q:743:GLN:HA	1:Q:746:LEU:HG	2.00	0.44
1:R:237:ASP:OD1	1:R:241:VAL:N	2.44	0.44
1:T:303:LYS:HG2	1:T:304:GLY:N	2.32	0.44
1:V:344:GLU:OE2	1:V:370:LYS:HD3	2.18	0.44
1:V:504:ARG:HB3	1:V:505:PRO:HD3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:686:GLY:HA2	1:W:689:GLU:OE1	2.18	0.44
1:X:592:HIS:NE2	1:Y:531:THR:O	2.50	0.44
1:X:686:GLY:HA2	1:X:689:GLU:OE1	2.18	0.44
1:Y:743:GLN:HA	1:Y:746:LEU:HG	2.00	0.44
1:Z:743:GLN:HA	1:Z:746:LEU:HG	2.00	0.44
1:a:518:LEU:HB2	1:a:547:PHE:HB2	1.99	0.44
1:e:303:LYS:HG2	1:e:304:GLY:N	2.32	0.44
1:f:344:GLU:OE2	1:f:370:LYS:HD3	2.18	0.44
1:g:564:VAL:HB	1:g:631:ASN:ND2	2.33	0.44
1:g:686:GLY:HA2	1:g:689:GLU:OE1	2.18	0.44
1:h:383:ASP:OD1	1:i:391:GLN:NE2	2.50	0.44
1:i:175:ARG:CZ	1:i:263:VAL:HG12	2.47	0.44
1:i:303:LYS:HG2	1:i:304:GLY:N	2.32	0.44
1:j:464:HIS:HB3	1:k:562:PHE:HE2	1.82	0.44
1:j:564:VAL:HB	1:j:631:ASN:ND2	2.33	0.44
1:j:779:LEU:HD11	1:k:777:LEU:HD11	1.99	0.44
1:j:794:LYS:HD2	1:k:788:ALA:CB	2.48	0.44
1:l:794:LYS:HD2	1:m:788:ALA:CB	2.47	0.44
1:A:564:VAL:HB	1:A:631:ASN:ND2	2.33	0.44
1:C:779:LEU:HD13	1:D:774:ARG:HE	1.82	0.44
1:C:794:LYS:HD2	1:D:788:ALA:CB	2.47	0.44
1:D:319:GLY:H	1:D:321:GLN:NE2	2.15	0.44
1:D:540:GLN:NE2	1:D:541:LEU:O	2.51	0.44
1:E:56:ARG:HG2	1:F:127:LEU:HG	1.99	0.44
1:E:382:LEU:HB2	1:E:405:THR:HA	1.99	0.44
1:F:592:HIS:NE2	1:G:531:THR:O	2.50	0.44
1:I:794:LYS:HD2	1:J:788:ALA:CB	2.47	0.44
1:K:319:GLY:H	1:K:321:GLN:NE2	2.15	0.44
1:L:56:ARG:HG2	1:M:127:LEU:HG	1.99	0.44
1:L:80:GLN:HE22	1:L:101:PRO:HB2	1.83	0.44
1:L:344:GLU:OE2	1:L:370:LYS:HD3	2.18	0.44
1:L:518:LEU:HB2	1:L:547:PHE:HB2	1.99	0.44
1:M:518:LEU:HB2	1:M:547:PHE:HB2	1.99	0.44
1:N:80:GLN:HE22	1:N:101:PRO:HB2	1.83	0.44
1:N:594:ASN:OD1	1:N:597:ARG:NE	2.46	0.44
1:N:794:LYS:HD2	1:O:788:ALA:CB	2.47	0.44
1:P:80:GLN:HE22	1:P:101:PRO:HB2	1.83	0.44
1:P:273:ILE:HD11	1:P:307:SER:HB3	1.99	0.44
1:Q:56:ARG:HG2	1:R:127:LEU:HG	1.99	0.44
1:Q:383:ASP:OD1	1:R:391:GLN:NE2	2.50	0.44
1:R:686:GLY:HA2	1:R:689:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:592:HIS:NE2	1:T:531:THR:O	2.50	0.44
1:S:794:LYS:HD2	1:T:788:ALA:CB	2.47	0.44
1:U:237:ASP:OD1	1:U:241:VAL:N	2.44	0.44
1:V:540:GLN:NE2	1:V:541:LEU:O	2.51	0.44
1:V:713:SER:O	1:V:716:VAL:N	2.50	0.44
1:X:713:SER:O	1:X:716:VAL:N	2.50	0.44
1:Y:686:GLY:HA2	1:Y:689:GLU:OE1	2.18	0.44
1:Z:56:ARG:HG2	1:a:127:LEU:HG	1.99	0.44
1:Z:564:VAL:HB	1:Z:631:ASN:ND2	2.33	0.44
1:Z:686:GLY:HA2	1:Z:689:GLU:OE1	2.18	0.44
1:Z:801:ALA:HB3	1:a:796:LYS:NZ	2.31	0.44
1:a:55:PRO:HB2	1:a:56:ARG:HG3	1.98	0.44
1:a:531:THR:HG22	1:a:588:PHE:CE1	2.52	0.44
1:c:531:THR:HG22	1:c:588:PHE:CE1	2.52	0.44
1:c:779:LEU:HD11	1:d:777:LEU:HD11	1.99	0.44
1:d:55:PRO:HB2	1:d:56:ARG:HG3	1.99	0.44
1:e:344:GLU:OE2	1:e:370:LYS:HD3	2.18	0.44
1:e:686:GLY:HA2	1:e:689:GLU:OE1	2.18	0.44
1:f:319:GLY:H	1:f:321:GLN:NE2	2.15	0.44
1:f:464:HIS:HB3	1:g:562:PHE:HE2	1.82	0.44
1:g:319:GLY:H	1:g:321:GLN:NE2	2.15	0.44
1:j:518:LEU:HB2	1:j:547:PHE:HB2	1.99	0.44
1:k:518:LEU:HB2	1:k:547:PHE:HB2	1.99	0.44
1:k:779:LEU:HD13	1:l:774:ARG:HE	1.82	0.44
1:l:779:LEU:HD11	1:m:777:LEU:HD11	1.99	0.44
1:A:56:ARG:HG2	1:B:127:LEU:HG	1.99	0.44
1:A:453:ASN:OD1	1:A:455:THR:OG1	2.24	0.44
1:B:56:ARG:HG2	1:C:127:LEU:HG	1.99	0.44
1:B:378:GLN:HG2	1:B:379:ALA:H	1.83	0.44
1:B:423:VAL:O	1:B:427:LEU:HB2	2.18	0.44
1:B:540:GLN:NE2	1:B:541:LEU:O	2.51	0.44
1:D:531:THR:HG22	1:D:588:PHE:CE1	2.52	0.44
1:D:713:SER:O	1:D:716:VAL:N	2.50	0.44
1:D:794:LYS:HD2	1:E:788:ALA:CB	2.47	0.44
1:E:540:GLN:NE2	1:E:541:LEU:O	2.51	0.44
1:F:80:GLN:HE22	1:F:101:PRO:HB2	1.83	0.44
1:F:344:GLU:OE2	1:F:370:LYS:HD3	2.18	0.44
1:H:464:HIS:HB3	1:I:562:PHE:HE2	1.82	0.44
1:J:80:GLN:HE22	1:J:101:PRO:HB2	1.83	0.44
1:K:273:ILE:HD11	1:K:307:SER:HB3	1.99	0.44
1:K:378:GLN:HG2	1:K:379:ALA:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:564:VAL:HB	1:K:631:ASN:ND2	2.33	0.44
1:M:779:LEU:HD13	1:N:774:ARG:HE	1.82	0.44
1:N:344:GLU:OE2	1:N:370:LYS:HD3	2.18	0.44
1:O:423:VAL:O	1:O:427:LEU:HB2	2.18	0.44
1:Q:464:HIS:HB3	1:R:562:PHE:HE2	1.82	0.44
1:Q:686:GLY:HA2	1:Q:689:GLU:OE1	2.18	0.44
1:R:80:GLN:HE22	1:R:101:PRO:HB2	1.83	0.44
1:R:743:GLN:HA	1:R:746:LEU:HG	2.00	0.44
1:S:383:ASP:OD1	1:T:391:GLN:NE2	2.50	0.44
1:T:779:LEU:HD11	1:U:777:LEU:HD11	1.99	0.44
1:U:540:GLN:NE2	1:U:541:LEU:O	2.51	0.44
1:U:779:LEU:HD11	1:V:777:LEU:HD11	1.99	0.44
1:U:794:LYS:HD2	1:V:788:ALA:CB	2.47	0.44
1:X:564:VAL:HB	1:X:631:ASN:ND2	2.33	0.44
1:Y:80:GLN:HE22	1:Y:101:PRO:HB2	1.83	0.44
1:Y:378:GLN:HG2	1:Y:379:ALA:H	1.83	0.44
1:Y:564:VAL:HB	1:Y:631:ASN:ND2	2.33	0.44
1:a:80:GLN:HE22	1:a:101:PRO:HB2	1.83	0.44
1:a:383:ASP:OD1	1:b:391:GLN:NE2	2.50	0.44
1:b:55:PRO:HB2	1:b:56:ARG:HG3	1.98	0.44
1:b:564:VAL:HB	1:b:631:ASN:ND2	2.33	0.44
1:c:794:LYS:HD2	1:d:788:ALA:CB	2.47	0.44
1:d:663:GLU:O	1:d:666:THR:OG1	2.26	0.44
1:e:794:LYS:HD2	1:f:788:ALA:CB	2.47	0.44
1:h:564:VAL:HB	1:h:631:ASN:ND2	2.33	0.44
1:i:464:HIS:HB3	1:j:562:PHE:HE2	1.82	0.44
1:j:55:PRO:HB2	1:j:56:ARG:HG3	1.98	0.44
1:k:531:THR:HG22	1:k:588:PHE:CE1	2.52	0.44
1:k:686:GLY:HA2	1:k:689:GLU:OE1	2.18	0.44
1:k:713:SER:O	1:k:716:VAL:N	2.50	0.44
1:l:592:HIS:NE2	1:m:531:THR:O	2.50	0.44
1:m:80:GLN:HE22	1:m:101:PRO:HB2	1.83	0.44
1:m:531:THR:HG22	1:m:588:PHE:CE1	2.52	0.44
1:A:423:VAL:O	1:A:427:LEU:HB2	2.18	0.44
1:A:540:GLN:NE2	1:A:541:LEU:O	2.51	0.44
1:C:534:HIS:O	1:C:534:HIS:ND1	2.51	0.44
1:C:540:GLN:NE2	1:C:541:LEU:O	2.51	0.44
1:E:273:ILE:HD11	1:E:307:SER:HB3	1.99	0.44
1:E:383:ASP:OD1	1:F:391:GLN:NE2	2.50	0.44
1:E:743:GLN:HA	1:E:746:LEU:HG	2.00	0.44
1:F:274:THR:HG23	1:F:320:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:540:GLN:NE2	1:G:541:LEU:O	2.51	0.44
1:H:713:SER:O	1:H:716:VAL:N	2.50	0.44
1:J:344:GLU:OE2	1:J:370:LYS:HD3	2.18	0.44
1:J:540:GLN:NE2	1:J:541:LEU:O	2.51	0.44
1:J:686:GLY:HA2	1:J:689:GLU:OE1	2.18	0.44
1:K:383:ASP:OD1	1:L:391:GLN:NE2	2.50	0.44
1:K:540:GLN:NE2	1:K:541:LEU:O	2.51	0.44
1:M:329:GLN:HA	1:M:360:ARG:HH22	1.83	0.44
1:M:344:GLU:OE2	1:M:370:LYS:HD3	2.18	0.44
1:M:423:VAL:O	1:M:427:LEU:HB2	2.18	0.44
1:M:464:HIS:HB3	1:N:562:PHE:HE2	1.82	0.44
1:M:540:GLN:NE2	1:M:541:LEU:O	2.51	0.44
1:O:382:LEU:HB2	1:O:405:THR:HA	1.99	0.44
1:P:592:HIS:NE2	1:Q:531:THR:O	2.50	0.44
1:Q:273:ILE:HD11	1:Q:307:SER:HB3	1.99	0.44
1:Q:303:LYS:HG2	1:Q:304:GLY:N	2.32	0.44
1:R:692:LYS:O	1:R:696:GLN:HG2	2.18	0.44
1:S:344:GLU:OE2	1:S:370:LYS:HD3	2.18	0.44
1:S:378:GLN:HG2	1:S:379:ALA:H	1.83	0.44
1:S:534:HIS:O	1:S:534:HIS:ND1	2.51	0.44
1:S:594:ASN:OD1	1:S:597:ARG:NE	2.46	0.44
1:U:329:GLN:HA	1:U:360:ARG:HH22	1.83	0.44
1:V:80:GLN:HE22	1:V:101:PRO:HB2	1.83	0.44
1:V:564:VAL:HB	1:V:631:ASN:ND2	2.33	0.44
1:W:540:GLN:NE2	1:W:541:LEU:O	2.51	0.44
1:Y:464:HIS:HB3	1:Z:562:PHE:HE2	1.82	0.44
1:Z:423:VAL:O	1:Z:427:LEU:HB2	2.18	0.44
1:Z:540:GLN:NE2	1:Z:541:LEU:O	2.51	0.44
1:a:423:VAL:O	1:a:427:LEU:HB2	2.18	0.44
1:c:686:GLY:HA2	1:c:689:GLU:OE1	2.18	0.44
1:d:382:LEU:HB2	1:d:405:THR:HA	1.99	0.44
1:d:423:VAL:O	1:d:427:LEU:HB2	2.18	0.44
1:d:737:GLY:O	1:d:740:SER:OG	2.28	0.44
1:e:383:ASP:OD1	1:f:391:GLN:NE2	2.50	0.44
1:e:594:ASN:OD1	1:e:597:ARG:NE	2.46	0.44
1:f:383:ASP:OD1	1:g:391:GLN:NE2	2.50	0.44
1:f:686:GLY:HA2	1:f:689:GLU:OE1	2.18	0.44
1:g:540:GLN:NE2	1:g:541:LEU:O	2.51	0.44
1:g:743:GLN:HA	1:g:746:LEU:HG	2.00	0.44
1:g:779:LEU:HD13	1:h:774:ARG:HE	1.82	0.44
1:h:743:GLN:HA	1:h:746:LEU:HG	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:329:GLN:HA	1:i:360:ARG:HH22	1.83	0.44
1:i:743:GLN:HA	1:i:746:LEU:HG	2.00	0.44
1:j:383:ASP:OD1	1:k:391:GLN:NE2	2.50	0.44
1:j:705:GLU:HA	1:j:708:GLU:CD	2.41	0.44
1:k:344:GLU:OE2	1:k:370:LYS:HD3	2.18	0.44
1:k:540:GLN:NE2	1:k:541:LEU:O	2.51	0.44
1:l:382:LEU:HB2	1:l:405:THR:HA	1.99	0.44
1:l:423:VAL:O	1:l:427:LEU:HB2	2.18	0.44
1:l:663:GLU:O	1:l:666:THR:OG1	2.26	0.44
1:m:378:GLN:HG2	1:m:379:ALA:H	1.83	0.44
1:m:713:SER:O	1:m:716:VAL:N	2.50	0.44
1:A:692:LYS:O	1:A:696:GLN:HG2	2.18	0.43
1:B:273:ILE:HD11	1:B:307:SER:HB3	1.99	0.43
1:B:737:GLY:O	1:B:740:SER:OG	2.28	0.43
1:C:344:GLU:OE2	1:C:370:LYS:HD3	2.18	0.43
1:D:383:ASP:OD1	1:E:391:GLN:NE2	2.50	0.43
1:F:686:GLY:HA2	1:F:689:GLU:OE1	2.18	0.43
1:J:423:VAL:O	1:J:427:LEU:HB2	2.18	0.43
1:K:274:THR:HG23	1:K:320:ILE:HD11	2.00	0.43
1:K:329:GLN:HA	1:K:360:ARG:HH22	1.83	0.43
1:K:423:VAL:O	1:K:427:LEU:HB2	2.18	0.43
1:K:743:GLN:HA	1:K:746:LEU:HG	2.00	0.43
1:K:779:LEU:HD13	1:L:774:ARG:HE	1.82	0.43
1:M:56:ARG:HG2	1:N:127:LEU:HG	1.99	0.43
1:M:378:GLN:HG2	1:M:379:ALA:H	1.83	0.43
1:M:743:GLN:HA	1:M:746:LEU:HG	2.00	0.43
1:N:56:ARG:HG2	1:O:127:LEU:HG	1.99	0.43
1:N:534:HIS:O	1:N:534:HIS:ND1	2.51	0.43
1:O:378:GLN:HG2	1:O:379:ALA:H	1.83	0.43
1:P:169:LYS:HD2	1:P:170:GLN:O	2.19	0.43
1:P:686:GLY:HA2	1:P:689:GLU:OE1	2.18	0.43
1:Q:344:GLU:OE2	1:Q:370:LYS:HD3	2.18	0.43
1:Q:378:GLN:HG2	1:Q:379:ALA:H	1.83	0.43
1:Q:564:VAL:HB	1:Q:631:ASN:ND2	2.33	0.43
1:R:534:HIS:O	1:R:534:HIS:ND1	2.51	0.43
1:S:423:VAL:O	1:S:427:LEU:HB2	2.18	0.43
1:T:55:PRO:HB2	1:T:56:ARG:HG3	1.98	0.43
1:U:274:THR:HG23	1:U:320:ILE:HD11	2.00	0.43
1:U:383:ASP:OD1	1:V:391:GLN:NE2	2.50	0.43
1:V:319:GLY:H	1:V:321:GLN:NE2	2.15	0.43
1:W:80:GLN:HE22	1:W:101:PRO:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:344:GLU:OE2	1:W:370:LYS:HD3	2.18	0.43
1:X:692:LYS:O	1:X:696:GLN:HG2	2.18	0.43
1:Y:344:GLU:OE2	1:Y:370:LYS:HD3	2.18	0.43
1:Y:534:HIS:O	1:Y:534:HIS:ND1	2.52	0.43
1:Z:692:LYS:O	1:Z:696:GLN:HG2	2.18	0.43
1:a:282:CYS:HB2	1:a:316:LEU:HD12	2.00	0.43
1:a:344:GLU:OE2	1:a:370:LYS:HD3	2.18	0.43
1:a:382:LEU:HB2	1:a:405:THR:HA	1.99	0.43
1:b:794:LYS:HD2	1:c:788:ALA:CB	2.47	0.43
1:c:540:GLN:NE2	1:c:541:LEU:O	2.51	0.43
1:d:713:SER:O	1:d:716:VAL:N	2.50	0.43
1:e:564:VAL:HB	1:e:631:ASN:ND2	2.33	0.43
1:f:80:GLN:HE22	1:f:101:PRO:HB2	1.83	0.43
1:f:423:VAL:O	1:f:427:LEU:HB2	2.18	0.43
1:f:534:HIS:O	1:f:534:HIS:ND1	2.51	0.43
1:h:273:ILE:HD11	1:h:307:SER:HB3	1.99	0.43
1:h:282:CYS:HB2	1:h:316:LEU:HD12	2.00	0.43
1:h:534:HIS:O	1:h:534:HIS:ND1	2.51	0.43
1:h:540:GLN:NE2	1:h:541:LEU:O	2.51	0.43
1:h:686:GLY:HA2	1:h:689:GLU:OE1	2.18	0.43
1:i:80:GLN:HE22	1:i:101:PRO:HB2	1.83	0.43
1:i:504:ARG:HB3	1:i:505:PRO:HD3	1.98	0.43
1:i:534:HIS:O	1:i:534:HIS:ND1	2.51	0.43
1:j:344:GLU:OE2	1:j:370:LYS:HD3	2.18	0.43
1:j:540:GLN:NE2	1:j:541:LEU:O	2.51	0.43
1:j:663:GLU:O	1:j:666:THR:OG1	2.26	0.43
1:j:743:GLN:HA	1:j:746:LEU:HG	2.00	0.43
1:k:319:GLY:H	1:k:321:GLN:NE2	2.15	0.43
1:k:534:HIS:O	1:k:534:HIS:ND1	2.51	0.43
1:l:274:THR:HG23	1:l:320:ILE:HD11	2.00	0.43
1:m:423:VAL:O	1:m:427:LEU:HB2	2.18	0.43
1:m:564:VAL:HB	1:m:631:ASN:ND2	2.33	0.43
1:m:692:LYS:O	1:m:696:GLN:HG2	2.18	0.43
1:A:319:GLY:H	1:A:321:GLN:NE2	2.15	0.43
1:B:274:THR:HG23	1:B:320:ILE:HD11	2.00	0.43
1:B:534:HIS:O	1:B:534:HIS:ND1	2.51	0.43
1:C:169:LYS:HD2	1:C:170:GLN:O	2.19	0.43
1:C:382:LEU:HB2	1:C:405:THR:HA	1.99	0.43
1:C:453:ASN:OD1	1:C:455:THR:OG1	2.24	0.43
1:C:527:ILE:HD12	1:C:576:ALA:HB1	2.01	0.43
1:D:378:GLN:HG2	1:D:379:ALA:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:464:HIS:HB3	1:E:562:PHE:HE2	1.82	0.43
1:D:686:GLY:HA2	1:D:689:GLU:OE1	2.18	0.43
1:F:534:HIS:O	1:F:534:HIS:ND1	2.51	0.43
1:G:378:GLN:HG2	1:G:379:ALA:H	1.83	0.43
1:G:423:VAL:O	1:G:427:LEU:HB2	2.18	0.43
1:G:534:HIS:O	1:G:534:HIS:ND1	2.51	0.43
1:H:423:VAL:O	1:H:427:LEU:HB2	2.18	0.43
1:I:378:GLN:HG2	1:I:379:ALA:H	1.83	0.43
1:L:273:ILE:HD11	1:L:307:SER:HB3	1.99	0.43
1:L:274:THR:HG23	1:L:320:ILE:HD11	2.00	0.43
1:M:383:ASP:OD1	1:N:391:GLN:NE2	2.50	0.43
1:M:564:VAL:HB	1:M:631:ASN:ND2	2.33	0.43
1:N:692:LYS:O	1:N:696:GLN:HG2	2.18	0.43
1:P:274:THR:HG23	1:P:320:ILE:HD11	2.00	0.43
1:P:282:CYS:HB2	1:P:316:LEU:HD12	2.00	0.43
1:P:329:GLN:HA	1:P:360:ARG:HH22	1.83	0.43
1:P:378:GLN:HG2	1:P:379:ALA:H	1.83	0.43
1:P:423:VAL:O	1:P:427:LEU:HB2	2.18	0.43
1:Q:282:CYS:HB2	1:Q:316:LEU:HD12	2.00	0.43
1:R:274:THR:HG23	1:R:320:ILE:HD11	2.00	0.43
1:S:713:SER:O	1:S:716:VAL:N	2.50	0.43
1:T:594:ASN:OD1	1:T:597:ARG:NE	2.46	0.43
1:U:344:GLU:OE2	1:U:370:LYS:HD3	2.18	0.43
1:U:518:LEU:HB2	1:U:547:PHE:HB2	1.99	0.43
1:U:743:GLN:HA	1:U:746:LEU:HG	2.00	0.43
1:V:329:GLN:HA	1:V:360:ARG:HH22	1.83	0.43
1:V:423:VAL:O	1:V:427:LEU:HB2	2.18	0.43
1:W:743:GLN:HA	1:W:746:LEU:HG	2.00	0.43
1:X:540:GLN:NE2	1:X:541:LEU:O	2.51	0.43
1:Y:389:TYR:CE2	1:Y:457:VAL:HA	2.54	0.43
1:Y:423:VAL:O	1:Y:427:LEU:HB2	2.18	0.43
1:Z:329:GLN:HA	1:Z:360:ARG:HH22	1.83	0.43
1:b:518:LEU:HB2	1:b:547:PHE:HB2	1.99	0.43
1:b:780:GLU:HG3	1:b:783:LYS:HZ3	1.83	0.43
1:c:564:VAL:HB	1:c:631:ASN:ND2	2.33	0.43
1:c:592:HIS:NE2	1:d:531:THR:O	2.50	0.43
1:d:464:HIS:HB3	1:e:562:PHE:HE2	1.82	0.43
1:d:534:HIS:O	1:d:534:HIS:ND1	2.51	0.43
1:e:169:LYS:HD2	1:e:170:GLN:O	2.19	0.43
1:g:378:GLN:HG2	1:g:379:ALA:H	1.83	0.43
1:g:779:LEU:HD11	1:h:777:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:527:ILE:HD12	1:h:576:ALA:HB1	2.01	0.43
1:i:692:LYS:O	1:i:696:GLN:HG2	2.18	0.43
1:j:80:GLN:HE22	1:j:101:PRO:HB2	1.83	0.43
1:k:389:TYR:CE2	1:k:457:VAL:HA	2.54	0.43
1:l:237:ASP:OD1	1:l:241:VAL:N	2.44	0.43
1:l:383:ASP:OD1	1:m:391:GLN:NE2	2.50	0.43
1:m:68:ASP:HB3	1:m:74:LEU:HD11	2.01	0.43
1:m:344:GLU:OE2	1:m:370:LYS:HD3	2.18	0.43
1:A:391:GLN:NE2	1:m:383:ASP:OD1	2.50	0.43
1:D:564:VAL:HB	1:D:631:ASN:ND2	2.33	0.43
1:E:282:CYS:HB2	1:E:316:LEU:HD12	2.01	0.43
1:E:389:TYR:CE2	1:E:457:VAL:HA	2.54	0.43
1:E:564:VAL:HB	1:E:631:ASN:ND2	2.33	0.43
1:G:344:GLU:OE2	1:G:370:LYS:HD3	2.18	0.43
1:G:506:LYS:HZ3	1:G:525:ASP:HB2	1.82	0.43
1:G:531:THR:HG22	1:G:588:PHE:CE1	2.52	0.43
1:H:344:GLU:OE2	1:H:370:LYS:HD3	2.18	0.43
1:H:534:HIS:O	1:H:534:HIS:ND1	2.51	0.43
1:H:564:VAL:HB	1:H:631:ASN:ND2	2.33	0.43
1:I:282:CYS:HB2	1:I:316:LEU:HD12	2.01	0.43
1:I:389:TYR:CE2	1:I:457:VAL:HA	2.54	0.43
1:I:534:HIS:O	1:I:534:HIS:ND1	2.51	0.43
1:J:68:ASP:HB3	1:J:74:LEU:HD11	2.01	0.43
1:J:534:HIS:O	1:J:534:HIS:ND1	2.51	0.43
1:K:56:ARG:NH2	1:L:156:GLU:HA	2.32	0.43
1:M:273:ILE:HD11	1:M:307:SER:HB3	1.99	0.43
1:N:68:ASP:HB3	1:N:74:LEU:HD11	2.01	0.43
1:P:56:ARG:NH2	1:Q:156:GLU:HA	2.32	0.43
1:Q:329:GLN:HA	1:Q:360:ARG:HH22	1.83	0.43
1:Q:389:TYR:CE2	1:Q:457:VAL:HA	2.54	0.43
1:S:329:GLN:HA	1:S:360:ARG:HH22	1.83	0.43
1:T:80:GLN:HE22	1:T:101:PRO:HB2	1.83	0.43
1:T:169:LYS:HD2	1:T:170:GLN:O	2.19	0.43
1:T:273:ILE:HD11	1:T:307:SER:HB3	1.99	0.43
1:U:692:LYS:O	1:U:696:GLN:HG2	2.18	0.43
1:V:56:ARG:NH2	1:W:156:GLU:HA	2.32	0.43
1:V:534:HIS:O	1:V:534:HIS:ND1	2.51	0.43
1:X:344:GLU:OE2	1:X:370:LYS:HD3	2.18	0.43
1:X:423:VAL:O	1:X:427:LEU:HB2	2.18	0.43
1:X:534:HIS:O	1:X:534:HIS:ND1	2.51	0.43
1:Y:527:ILE:HD12	1:Y:576:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:534:HIS:O	1:Z:534:HIS:ND1	2.52	0.43
1:Z:779:LEU:HD13	1:a:774:ARG:HE	1.82	0.43
1:b:274:THR:HG23	1:b:320:ILE:HD11	2.01	0.43
1:b:319:GLY:H	1:b:321:GLN:NE2	2.15	0.43
1:c:169:LYS:HD2	1:c:170:GLN:O	2.18	0.43
1:c:274:THR:HG23	1:c:320:ILE:HD11	2.00	0.43
1:c:692:LYS:O	1:c:696:GLN:HG2	2.18	0.43
1:d:518:LEU:HB2	1:d:547:PHE:HB2	1.99	0.43
1:d:692:LYS:O	1:d:696:GLN:HG2	2.18	0.43
1:e:80:GLN:HE22	1:e:101:PRO:HB2	1.83	0.43
1:e:119:THR:OG1	1:e:163:ILE:O	2.25	0.43
1:e:534:HIS:O	1:e:534:HIS:ND1	2.51	0.43
1:e:540:GLN:NE2	1:e:541:LEU:O	2.51	0.43
1:e:592:HIS:NE2	1:f:531:THR:O	2.50	0.43
1:f:743:GLN:HA	1:f:746:LEU:HG	2.00	0.43
1:g:169:LYS:HD2	1:g:170:GLN:O	2.19	0.43
1:h:80:GLN:HE22	1:h:101:PRO:HB2	1.83	0.43
1:h:378:GLN:HG2	1:h:379:ALA:H	1.83	0.43
1:h:423:VAL:O	1:h:427:LEU:HB2	2.18	0.43
1:j:527:ILE:HD12	1:j:576:ALA:HB1	2.01	0.43
1:k:273:ILE:HD11	1:k:307:SER:HB3	1.99	0.43
1:k:378:GLN:HG2	1:k:379:ALA:H	1.83	0.43
1:l:169:LYS:HD2	1:l:170:GLN:O	2.19	0.43
1:l:534:HIS:O	1:l:534:HIS:ND1	2.51	0.43
1:l:686:GLY:HA2	1:l:689:GLU:OE1	2.18	0.43
1:A:169:LYS:HD2	1:A:170:GLN:O	2.19	0.43
1:C:68:ASP:HB3	1:C:74:LEU:HD11	2.01	0.43
1:C:743:GLN:HA	1:C:746:LEU:HG	2.00	0.43
1:D:534:HIS:O	1:D:534:HIS:ND1	2.51	0.43
1:D:606:PHE:O	1:D:622:ALA:HA	2.19	0.43
1:E:779:LEU:HD13	1:F:774:ARG:HE	1.82	0.43
1:F:378:GLN:HG2	1:F:379:ALA:H	1.83	0.43
1:F:527:ILE:HD12	1:F:576:ALA:HB1	2.01	0.43
1:F:540:GLN:NE2	1:F:541:LEU:O	2.51	0.43
1:F:779:LEU:HD11	1:G:777:LEU:HD11	1.99	0.43
1:G:713:SER:O	1:G:716:VAL:N	2.50	0.43
1:G:794:LYS:HD2	1:H:788:ALA:CB	2.47	0.43
1:I:274:THR:HG23	1:I:320:ILE:HD11	2.00	0.43
1:J:274:THR:HG23	1:J:320:ILE:HD11	2.00	0.43
1:J:329:GLN:HA	1:J:360:ARG:HH22	1.83	0.43
1:J:527:ILE:HD12	1:J:576:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:564:VAL:HB	1:J:631:ASN:ND2	2.33	0.43
1:K:80:GLN:HE22	1:K:101:PRO:HB2	1.83	0.43
1:K:534:HIS:O	1:K:534:HIS:ND1	2.51	0.43
1:K:686:GLY:HA2	1:K:689:GLU:OE1	2.18	0.43
1:L:237:ASP:OD1	1:L:241:VAL:N	2.44	0.43
1:L:329:GLN:HA	1:L:360:ARG:HH22	1.83	0.43
1:M:282:CYS:HB2	1:M:316:LEU:HD12	2.01	0.43
1:M:794:LYS:HD2	1:N:788:ALA:CB	2.47	0.43
1:N:169:LYS:HD2	1:N:170:GLN:O	2.19	0.43
1:N:273:ILE:HD11	1:N:307:SER:HB3	1.99	0.43
1:O:344:GLU:OE2	1:O:370:LYS:HD3	2.18	0.43
1:O:534:HIS:O	1:O:534:HIS:ND1	2.51	0.43
1:O:540:GLN:NE2	1:O:541:LEU:O	2.51	0.43
1:O:686:GLY:HA2	1:O:689:GLU:OE1	2.18	0.43
1:P:606:PHE:O	1:P:622:ALA:HA	2.19	0.43
1:S:56:ARG:NH2	1:T:156:GLU:HA	2.32	0.43
1:S:464:HIS:HB3	1:T:562:PHE:HE2	1.82	0.43
1:S:518:LEU:HB2	1:S:547:PHE:HB2	1.99	0.43
1:S:692:LYS:O	1:S:696:GLN:HG2	2.18	0.43
1:T:534:HIS:O	1:T:534:HIS:ND1	2.51	0.43
1:T:592:HIS:NE2	1:U:531:THR:O	2.50	0.43
1:U:68:ASP:HB3	1:U:74:LEU:HD11	2.01	0.43
1:V:274:THR:HG23	1:V:320:ILE:HD11	2.00	0.43
1:V:383:ASP:OD1	1:W:391:GLN:NE2	2.50	0.43
1:V:746:LEU:HD13	1:W:737:GLY:HA2	2.01	0.43
1:W:564:VAL:HB	1:W:631:ASN:ND2	2.33	0.43
1:X:383:ASP:OD1	1:Y:391:GLN:NE2	2.50	0.43
1:Y:779:LEU:HD13	1:Z:774:ARG:HE	1.82	0.43
1:a:56:ARG:HG2	1:b:127:LEU:HG	1.99	0.43
1:a:273:ILE:HD11	1:a:307:SER:HB3	1.99	0.43
1:a:540:GLN:NE2	1:a:541:LEU:O	2.51	0.43
1:a:606:PHE:O	1:a:622:ALA:HA	2.19	0.43
1:b:378:GLN:HG2	1:b:379:ALA:H	1.83	0.43
1:b:382:LEU:HB2	1:b:405:THR:HA	1.99	0.43
1:b:534:HIS:O	1:b:534:HIS:ND1	2.51	0.43
1:b:779:LEU:HD13	1:c:774:ARG:HE	1.82	0.43
1:c:55:PRO:HB2	1:c:56:ARG:HG3	1.98	0.43
1:c:344:GLU:OE2	1:c:370:LYS:HD3	2.18	0.43
1:c:527:ILE:HD12	1:c:576:ALA:HB1	2.01	0.43
1:c:534:HIS:O	1:c:534:HIS:ND1	2.52	0.43
1:c:594:ASN:OD1	1:c:597:ARG:NE	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:713:SER:HA	1:d:704:LYS:HZ2	1.83	0.43
1:d:273:ILE:HD11	1:d:307:SER:HB3	1.99	0.43
1:d:282:CYS:HB2	1:d:316:LEU:HD12	2.00	0.43
1:d:606:PHE:O	1:d:622:ALA:HA	2.19	0.43
1:e:282:CYS:HB2	1:e:316:LEU:HD12	2.00	0.43
1:e:378:GLN:HG2	1:e:379:ALA:H	1.83	0.43
1:f:68:ASP:HB3	1:f:74:LEU:HD11	2.01	0.43
1:f:692:LYS:O	1:f:696:GLN:HG2	2.18	0.43
1:g:80:GLN:HE22	1:g:101:PRO:HB2	1.83	0.43
1:g:389:TYR:CE2	1:g:457:VAL:HA	2.54	0.43
1:g:772:TYR:HE1	1:h:770:LEU:HD23	1.79	0.43
1:h:329:GLN:HA	1:h:360:ARG:HH22	1.83	0.43
1:h:779:LEU:HD11	1:i:777:LEU:HD11	1.99	0.43
1:i:344:GLU:OE2	1:i:370:LYS:HD3	2.18	0.43
1:i:378:GLN:HG2	1:i:379:ALA:H	1.83	0.43
1:i:779:LEU:HD13	1:j:774:ARG:HE	1.82	0.43
1:j:68:ASP:HB3	1:j:74:LEU:HD11	2.01	0.43
1:j:534:HIS:O	1:j:534:HIS:ND1	2.51	0.43
1:l:464:HIS:HB3	1:m:562:PHE:HE2	1.82	0.43
1:l:527:ILE:HD12	1:l:576:ALA:HB1	2.01	0.43
1:m:329:GLN:HA	1:m:360:ARG:HH22	1.83	0.43
1:A:329:GLN:HA	1:A:360:ARG:HH22	1.83	0.43
1:A:464:HIS:HB3	1:B:562:PHE:HE2	1.82	0.43
1:A:606:PHE:O	1:A:622:ALA:HA	2.19	0.43
1:A:746:LEU:HD13	1:B:737:GLY:HA2	2.01	0.43
1:B:56:ARG:NH2	1:C:156:GLU:HA	2.32	0.43
1:B:319:GLY:H	1:B:321:GLN:NE2	2.15	0.43
1:B:713:SER:HA	1:C:704:LYS:HZ2	1.84	0.43
1:B:779:LEU:HD11	1:C:777:LEU:HD11	1.99	0.43
1:D:80:GLN:HE22	1:D:101:PRO:HB2	1.83	0.43
1:D:692:LYS:O	1:D:696:GLN:HG2	2.18	0.43
1:E:692:LYS:O	1:E:696:GLN:HG2	2.18	0.43
1:E:746:LEU:HD13	1:F:737:GLY:HA2	2.01	0.43
1:F:531:THR:HG22	1:F:588:PHE:CE1	2.52	0.43
1:G:169:LYS:HD2	1:G:170:GLN:O	2.19	0.43
1:G:527:ILE:HD12	1:G:576:ALA:HB1	2.01	0.43
1:G:606:PHE:O	1:G:622:ALA:HA	2.19	0.43
1:H:80:GLN:HE22	1:H:101:PRO:HB2	1.83	0.43
1:H:378:GLN:HG2	1:H:379:ALA:H	1.83	0.43
1:H:743:GLN:HA	1:H:746:LEU:HG	2.00	0.43
1:I:423:VAL:O	1:I:427:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:564:VAL:HB	1:I:631:ASN:ND2	2.33	0.43
1:J:282:CYS:HB2	1:J:316:LEU:HD12	2.01	0.43
1:J:592:HIS:NE2	1:K:531:THR:O	2.50	0.43
1:J:606:PHE:O	1:J:622:ALA:HA	2.19	0.43
1:J:746:LEU:HD13	1:K:737:GLY:HA2	2.01	0.43
1:K:772:TYR:HE1	1:L:770:LEU:HD23	1.79	0.43
1:K:794:LYS:HD2	1:L:788:ALA:CB	2.47	0.43
1:L:464:HIS:HB3	1:M:562:PHE:HE2	1.82	0.43
1:L:534:HIS:O	1:L:534:HIS:ND1	2.51	0.43
1:L:713:SER:HA	1:M:704:LYS:HZ2	1.84	0.43
1:N:274:THR:HG23	1:N:320:ILE:HD11	2.00	0.43
1:N:423:VAL:O	1:N:427:LEU:HB2	2.18	0.43
1:O:274:THR:HG23	1:O:320:ILE:HD11	2.00	0.43
1:O:692:LYS:O	1:O:696:GLN:HG2	2.18	0.43
1:Q:534:HIS:O	1:Q:534:HIS:ND1	2.51	0.43
1:R:540:GLN:NE2	1:R:541:LEU:O	2.51	0.43
1:S:531:THR:HG22	1:S:588:PHE:CE1	2.52	0.43
1:T:564:VAL:HB	1:T:631:ASN:ND2	2.33	0.43
1:U:378:GLN:HG2	1:U:379:ALA:H	1.83	0.43
1:U:423:VAL:O	1:U:427:LEU:HB2	2.18	0.43
1:U:737:GLY:O	1:U:740:SER:OG	2.28	0.43
1:V:527:ILE:HD12	1:V:576:ALA:HB1	2.01	0.43
1:V:606:PHE:O	1:V:622:ALA:HA	2.19	0.43
1:V:772:TYR:HE1	1:W:770:LEU:HD23	1.79	0.43
1:X:169:LYS:HD2	1:X:170:GLN:O	2.19	0.43
1:X:779:LEU:HD11	1:Y:777:LEU:HD11	1.99	0.43
1:Z:282:CYS:HB2	1:Z:316:LEU:HD12	2.00	0.43
1:d:344:GLU:OE2	1:d:370:LYS:HD3	2.18	0.43
1:d:743:GLN:HA	1:d:746:LEU:HG	2.00	0.43
1:e:606:PHE:O	1:e:622:ALA:HA	2.19	0.43
1:e:779:LEU:HD13	1:f:774:ARG:HE	1.82	0.43
1:f:527:ILE:HD12	1:f:576:ALA:HB1	2.01	0.43
1:g:237:ASP:OD1	1:g:241:VAL:N	2.44	0.43
1:g:423:VAL:O	1:g:427:LEU:HB2	2.18	0.43
1:g:534:HIS:O	1:g:534:HIS:ND1	2.51	0.43
1:h:592:HIS:NE2	1:i:531:THR:O	2.50	0.43
1:i:594:ASN:OD1	1:i:597:ARG:NE	2.46	0.43
1:j:389:TYR:CE2	1:j:457:VAL:HA	2.54	0.43
1:j:779:LEU:HD13	1:k:774:ARG:HE	1.82	0.43
1:k:169:LYS:HD2	1:k:170:GLN:O	2.19	0.43
1:k:282:CYS:HB2	1:k:316:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:453:ASN:OD1	1:k:455:THR:OG1	2.24	0.43
1:k:594:ASN:OD1	1:k:597:ARG:NE	2.46	0.43
1:k:692:LYS:O	1:k:696:GLN:HG2	2.18	0.43
1:m:606:PHE:O	1:m:622:ALA:HA	2.19	0.43
1:m:743:GLN:HA	1:m:746:LEU:HG	2.00	0.43
1:A:282:CYS:HB2	1:A:316:LEU:HD12	2.01	0.43
1:B:80:GLN:HE22	1:B:101:PRO:HB2	1.83	0.43
1:B:237:ASP:OD1	1:B:241:VAL:N	2.44	0.43
1:C:378:GLN:HG2	1:C:379:ALA:H	1.83	0.43
1:C:423:VAL:O	1:C:427:LEU:HB2	2.18	0.43
1:C:564:VAL:HB	1:C:631:ASN:ND2	2.33	0.43
1:C:692:LYS:O	1:C:696:GLN:HG2	2.18	0.43
1:D:179:ARG:NH2	1:D:210:GLU:O	2.52	0.43
1:D:282:CYS:HB2	1:D:316:LEU:HD12	2.00	0.43
1:D:336:ALA:HB2	1:D:357:TRP:CZ3	2.54	0.43
1:D:389:TYR:CE2	1:D:457:VAL:HA	2.54	0.43
1:F:383:ASP:OD1	1:G:391:GLN:NE2	2.50	0.43
1:F:389:TYR:CE2	1:F:457:VAL:HA	2.53	0.43
1:I:344:GLU:OE2	1:I:370:LYS:HD3	2.18	0.43
1:I:383:ASP:OD1	1:J:391:GLN:NE2	2.50	0.43
1:J:378:GLN:HG2	1:J:379:ALA:H	1.83	0.43
1:K:179:ARG:NH2	1:K:210:GLU:O	2.52	0.43
1:K:336:ALA:HB2	1:K:357:TRP:CZ3	2.54	0.43
1:K:592:HIS:NE2	1:L:531:THR:O	2.50	0.43
1:K:593:LYS:HA	1:K:593:LYS:HD2	1.91	0.43
1:K:606:PHE:O	1:K:622:ALA:HA	2.19	0.43
1:M:274:THR:HG23	1:M:320:ILE:HD11	2.00	0.43
1:M:389:TYR:CE2	1:M:457:VAL:HA	2.53	0.43
1:O:606:PHE:O	1:O:622:ALA:HA	2.19	0.43
1:O:746:LEU:HD13	1:P:737:GLY:HA2	2.01	0.43
1:Q:250:LEU:HD11	1:Q:310:LEU:O	2.19	0.43
1:R:169:LYS:HD2	1:R:170:GLN:O	2.19	0.43
1:R:606:PHE:O	1:R:622:ALA:HA	2.19	0.43
1:R:746:LEU:HD13	1:S:737:GLY:HA2	2.01	0.43
1:S:55:PRO:HB2	1:S:56:ARG:HG3	1.98	0.43
1:S:250:LEU:HD11	1:S:310:LEU:O	2.19	0.43
1:S:564:VAL:HB	1:S:631:ASN:ND2	2.33	0.43
1:S:686:GLY:HA2	1:S:689:GLU:OE1	2.18	0.43
1:S:743:GLN:HA	1:S:746:LEU:HG	2.00	0.43
1:T:344:GLU:OE2	1:T:370:LYS:HD3	2.18	0.43
1:T:423:VAL:O	1:T:427:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:179:ARG:NH2	1:U:210:GLU:O	2.52	0.43
1:U:347:GLU:HG2	1:U:349:VAL:H	1.81	0.43
1:U:527:ILE:HD12	1:U:576:ALA:HB1	2.01	0.43
1:U:534:HIS:O	1:U:534:HIS:ND1	2.51	0.43
1:U:606:PHE:O	1:U:622:ALA:HA	2.19	0.43
1:V:692:LYS:O	1:V:696:GLN:HG2	2.18	0.43
1:V:743:GLN:HA	1:V:746:LEU:HG	2.00	0.43
1:W:534:HIS:O	1:W:534:HIS:ND1	2.51	0.43
1:W:692:LYS:O	1:W:696:GLN:HG2	2.18	0.43
1:X:378:GLN:HG2	1:X:379:ALA:H	1.83	0.43
1:X:389:TYR:CE2	1:X:457:VAL:HA	2.53	0.43
1:Y:179:ARG:NH2	1:Y:210:GLU:O	2.52	0.43
1:Y:282:CYS:HB2	1:Y:316:LEU:HD12	2.00	0.43
1:Z:273:ILE:HD11	1:Z:307:SER:HB3	1.99	0.43
1:Z:606:PHE:O	1:Z:622:ALA:HA	2.19	0.43
1:a:336:ALA:HB2	1:a:357:TRP:CZ3	2.54	0.43
1:b:344:GLU:OE2	1:b:370:LYS:HD3	2.18	0.43
1:b:772:TYR:HE1	1:c:770:LEU:HD23	1.79	0.43
1:b:779:LEU:HD11	1:c:777:LEU:HD11	1.99	0.43
1:c:389:TYR:CE2	1:c:457:VAL:HA	2.54	0.43
1:c:423:VAL:O	1:c:427:LEU:HB2	2.18	0.43
1:c:518:LEU:HB2	1:c:547:PHE:HB2	1.99	0.43
1:d:80:GLN:HE22	1:d:101:PRO:HB2	1.83	0.43
1:d:274:THR:HG23	1:d:320:ILE:HD11	2.00	0.43
1:e:68:ASP:HB3	1:e:74:LEU:HD11	2.01	0.43
1:e:250:LEU:HD11	1:e:310:LEU:O	2.19	0.43
1:e:423:VAL:O	1:e:427:LEU:HB2	2.18	0.43
1:f:797:GLU:CD	1:g:792:ALA:HB1	2.44	0.43
1:i:282:CYS:HB2	1:i:316:LEU:HD12	2.00	0.43
1:i:527:ILE:HD12	1:i:576:ALA:HB1	2.01	0.43
1:i:531:THR:HG22	1:i:588:PHE:CE1	2.52	0.43
1:j:692:LYS:O	1:j:696:GLN:HG2	2.18	0.43
1:k:274:THR:HG23	1:k:320:ILE:HD11	2.01	0.43
1:k:336:ALA:HB2	1:k:357:TRP:CZ3	2.54	0.43
1:k:383:ASP:OD1	1:l:391:GLN:NE2	2.50	0.43
1:k:527:ILE:HD12	1:k:576:ALA:HB1	2.01	0.43
1:A:378:GLN:HG2	1:A:379:ALA:H	1.83	0.43
1:B:531:THR:HG22	1:B:588:PHE:CE1	2.52	0.43
1:B:595:SER:O	1:B:599:ILE:HG12	2.19	0.43
1:B:779:LEU:HD13	1:C:774:ARG:HE	1.82	0.43
1:C:179:ARG:NH2	1:C:210:GLU:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:378:GLN:HG2	1:E:379:ALA:H	1.83	0.43
1:E:797:GLU:CD	1:F:792:ALA:HB1	2.44	0.43
1:F:37:ARG:HH11	1:F:43:VAL:H	1.67	0.43
1:F:68:ASP:HB3	1:F:74:LEU:HD11	2.01	0.43
1:F:737:GLY:O	1:F:740:SER:OG	2.28	0.43
1:H:389:TYR:CE2	1:H:457:VAL:HA	2.54	0.43
1:I:797:GLU:CD	1:J:792:ALA:HB1	2.44	0.43
1:J:179:ARG:NH2	1:J:210:GLU:O	2.52	0.43
1:J:594:ASN:OD1	1:J:597:ARG:NE	2.46	0.43
1:K:169:LYS:HD2	1:K:170:GLN:O	2.19	0.43
1:K:344:GLU:OE2	1:K:370:LYS:HD3	2.18	0.43
1:K:527:ILE:HD12	1:K:576:ALA:HB1	2.01	0.43
1:M:592:HIS:NE2	1:N:531:THR:O	2.50	0.43
1:M:692:LYS:O	1:M:696:GLN:HG2	2.18	0.43
1:N:179:ARG:NH2	1:N:210:GLU:O	2.52	0.43
1:O:68:ASP:HB3	1:O:74:LEU:HD11	2.01	0.43
1:O:273:ILE:HD11	1:O:307:SER:HB3	1.99	0.43
1:O:797:GLU:CD	1:P:792:ALA:HB1	2.44	0.43
1:P:179:ARG:NH2	1:P:210:GLU:O	2.52	0.43
1:P:250:LEU:HD11	1:P:310:LEU:O	2.19	0.43
1:P:389:TYR:CE2	1:P:457:VAL:HA	2.54	0.43
1:P:527:ILE:HD12	1:P:576:ALA:HB1	2.01	0.43
1:Q:274:THR:HG23	1:Q:320:ILE:HD11	2.01	0.43
1:Q:423:VAL:O	1:Q:427:LEU:HB2	2.18	0.43
1:R:797:GLU:CD	1:S:792:ALA:HB1	2.44	0.43
1:S:746:LEU:HD13	1:T:737:GLY:HA2	2.01	0.43
1:T:692:LYS:O	1:T:696:GLN:HG2	2.18	0.43
1:U:797:GLU:CD	1:V:792:ALA:HB1	2.44	0.43
1:V:68:ASP:HB3	1:V:74:LEU:HD11	2.01	0.43
1:V:169:LYS:HD2	1:V:170:GLN:O	2.19	0.43
1:V:797:GLU:CD	1:W:792:ALA:HB1	2.44	0.43
1:W:56:ARG:HG2	1:X:127:LEU:HG	1.99	0.43
1:W:68:ASP:HB3	1:W:74:LEU:HD11	2.01	0.43
1:X:179:ARG:NH2	1:X:210:GLU:O	2.52	0.43
1:X:319:GLY:H	1:X:321:GLN:NE2	2.15	0.43
1:X:606:PHE:O	1:X:622:ALA:HA	2.19	0.43
1:Y:692:LYS:O	1:Y:696:GLN:HG2	2.18	0.43
1:Y:713:SER:O	1:Y:716:VAL:N	2.50	0.43
1:Z:80:GLN:HE22	1:Z:101:PRO:HB2	1.83	0.43
1:b:169:LYS:HD2	1:b:170:GLN:O	2.19	0.43
1:b:282:CYS:HB2	1:b:316:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:389:TYR:CE2	1:b:457:VAL:HA	2.54	0.43
1:c:378:GLN:HG2	1:c:379:ALA:H	1.83	0.43
1:d:378:GLN:HG2	1:d:379:ALA:H	1.83	0.43
1:d:564:VAL:HB	1:d:631:ASN:ND2	2.33	0.43
1:d:779:LEU:HD13	1:e:774:ARG:HE	1.82	0.43
1:d:797:GLU:CD	1:e:792:ALA:HB1	2.44	0.43
1:e:56:ARG:NH2	1:f:156:GLU:HA	2.32	0.43
1:f:329:GLN:HA	1:f:360:ARG:HH22	1.83	0.43
1:g:383:ASP:OD1	1:h:391:GLN:NE2	2.50	0.43
1:g:527:ILE:HD12	1:g:576:ALA:HB1	2.01	0.43
1:g:797:GLU:CD	1:h:792:ALA:HB1	2.44	0.43
1:i:797:GLU:CD	1:j:792:ALA:HB1	2.44	0.43
1:j:274:THR:HG23	1:j:320:ILE:HD11	2.00	0.43
1:j:329:GLN:HA	1:j:360:ARG:HH22	1.83	0.43
1:j:336:ALA:HB2	1:j:357:TRP:CZ3	2.54	0.43
1:k:329:GLN:HA	1:k:360:ARG:HH22	1.83	0.43
1:l:68:ASP:HB3	1:l:74:LEU:HD11	2.01	0.43
1:l:540:GLN:NE2	1:l:541:LEU:O	2.51	0.43
1:l:564:VAL:HB	1:l:631:ASN:ND2	2.33	0.43
1:l:692:LYS:O	1:l:696:GLN:HG2	2.18	0.43
1:m:282:CYS:HB2	1:m:316:LEU:HD12	2.01	0.43
1:A:336:ALA:HB2	1:A:357:TRP:CZ3	2.54	0.43
1:A:531:THR:O	1:m:592:HIS:NE2	2.50	0.43
1:A:534:HIS:O	1:A:534:HIS:ND1	2.51	0.43
1:A:797:GLU:CD	1:B:792:ALA:HB1	2.44	0.43
1:B:329:GLN:HA	1:B:360:ARG:HH22	1.83	0.43
1:B:344:GLU:OE2	1:B:370:LYS:HD3	2.18	0.43
1:B:389:TYR:CE2	1:B:457:VAL:HA	2.54	0.43
1:B:564:VAL:HB	1:B:631:ASN:ND2	2.33	0.43
1:D:169:LYS:HD2	1:D:170:GLN:O	2.19	0.43
1:D:250:LEU:HD11	1:D:310:LEU:O	2.19	0.43
1:E:80:GLN:HE22	1:E:101:PRO:HB2	1.83	0.43
1:E:336:ALA:HB2	1:E:357:TRP:CZ3	2.54	0.43
1:E:606:PHE:O	1:E:622:ALA:HA	2.19	0.43
1:E:686:GLY:HA2	1:E:689:GLU:OE1	2.18	0.43
1:F:273:ILE:HD11	1:F:307:SER:HB3	1.99	0.43
1:F:595:SER:O	1:F:599:ILE:HG12	2.19	0.43
1:G:336:ALA:HB2	1:G:357:TRP:CZ3	2.54	0.43
1:H:179:ARG:NH2	1:H:210:GLU:O	2.52	0.43
1:H:237:ASP:OD1	1:H:241:VAL:N	2.45	0.43
1:H:383:ASP:OD1	1:I:391:GLN:NE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:704:LYS:HA	1:H:704:LYS:HD2	1.88	0.43
1:H:746:LEU:HD13	1:I:737:GLY:HA2	2.01	0.43
1:I:527:ILE:HD12	1:I:576:ALA:HB1	2.01	0.43
1:K:595:SER:O	1:K:599:ILE:HG12	2.19	0.43
1:L:250:LEU:HD11	1:L:310:LEU:O	2.19	0.43
1:M:179:ARG:NH2	1:M:210:GLU:O	2.52	0.43
1:M:534:HIS:O	1:M:534:HIS:ND1	2.51	0.43
1:M:606:PHE:O	1:M:622:ALA:HA	2.19	0.43
1:N:378:GLN:HG2	1:N:379:ALA:H	1.83	0.43
1:O:52:THR:HG22	1:O:96:PRO:HB3	2.01	0.43
1:O:389:TYR:CE2	1:O:457:VAL:HA	2.54	0.43
1:O:564:VAL:HB	1:O:631:ASN:ND2	2.33	0.43
1:P:383:ASP:OD1	1:Q:391:GLN:NE2	2.50	0.43
1:P:534:HIS:O	1:P:534:HIS:ND1	2.51	0.43
1:P:543:TYR:CE1	1:P:572:CYS:HA	2.54	0.43
1:Q:80:GLN:HE22	1:Q:101:PRO:HB2	1.83	0.43
1:Q:179:ARG:NH2	1:Q:210:GLU:O	2.52	0.43
1:Q:336:ALA:HB2	1:Q:357:TRP:CZ3	2.54	0.43
1:R:68:ASP:HB3	1:R:74:LEU:HD11	2.01	0.43
1:R:282:CYS:HB2	1:R:316:LEU:HD12	2.01	0.43
1:R:389:TYR:CE2	1:R:457:VAL:HA	2.54	0.43
1:S:56:ARG:HG2	1:T:127:LEU:HG	1.99	0.43
1:S:273:ILE:HD11	1:S:307:SER:HB3	1.99	0.43
1:S:282:CYS:HB2	1:S:316:LEU:HD12	2.00	0.43
1:T:383:ASP:OD1	1:U:391:GLN:NE2	2.50	0.43
1:T:518:LEU:HB2	1:T:547:PHE:HB2	1.99	0.43
1:T:540:GLN:NE2	1:T:541:LEU:O	2.51	0.43
1:U:52:THR:HG22	1:U:96:PRO:HB3	2.01	0.43
1:U:250:LEU:HD11	1:U:310:LEU:O	2.19	0.43
1:U:531:THR:HG22	1:U:588:PHE:CE1	2.52	0.43
1:V:37:ARG:HH11	1:V:43:VAL:H	1.67	0.43
1:V:250:LEU:HD11	1:V:310:LEU:O	2.19	0.43
1:W:336:ALA:HB2	1:W:357:TRP:CZ3	2.54	0.43
1:W:797:GLU:CD	1:X:792:ALA:HB1	2.44	0.43
1:X:336:ALA:HB2	1:X:357:TRP:CZ3	2.54	0.43
1:X:743:GLN:HA	1:X:746:LEU:HG	2.00	0.43
1:Y:169:LYS:HD2	1:Y:170:GLN:O	2.19	0.43
1:Y:671:ALA:HA	1:Y:674:LYS:HZ3	1.84	0.43
1:Z:274:THR:HG23	1:Z:320:ILE:HD11	2.00	0.43
1:Z:389:TYR:CE2	1:Z:457:VAL:HA	2.54	0.43
1:a:179:ARG:NH2	1:a:210:GLU:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:692:LYS:O	1:a:696:GLN:HG2	2.18	0.43
1:b:52:THR:HG22	1:b:96:PRO:HB3	2.01	0.43
1:b:179:ARG:NH2	1:b:210:GLU:O	2.52	0.43
1:b:250:LEU:HD11	1:b:310:LEU:O	2.19	0.43
1:d:383:ASP:OD1	1:e:391:GLN:NE2	2.50	0.43
1:f:543:TYR:CE1	1:f:572:CYS:HA	2.54	0.43
1:g:282:CYS:HB2	1:g:316:LEU:HD12	2.00	0.43
1:g:692:LYS:O	1:g:696:GLN:HG2	2.18	0.43
1:h:453:ASN:OD1	1:h:455:THR:OG1	2.24	0.43
1:i:250:LEU:HD11	1:i:310:LEU:O	2.19	0.43
1:i:423:VAL:O	1:i:427:LEU:HB2	2.18	0.43
1:i:746:LEU:HD13	1:j:737:GLY:HA2	2.01	0.43
1:j:169:LYS:HD2	1:j:170:GLN:O	2.19	0.43
1:k:743:GLN:HA	1:k:746:LEU:HG	2.00	0.43
1:m:274:THR:HG23	1:m:320:ILE:HD11	2.00	0.43
1:A:389:TYR:CE2	1:A:457:VAL:HA	2.53	0.43
1:C:797:GLU:CD	1:D:792:ALA:HB1	2.44	0.43
1:D:329:GLN:HA	1:D:360:ARG:HH22	1.83	0.43
1:D:423:VAL:O	1:D:427:LEU:HB2	2.18	0.43
1:D:543:TYR:CE1	1:D:572:CYS:HA	2.54	0.43
1:D:595:SER:O	1:D:599:ILE:HG12	2.19	0.43
1:E:250:LEU:HD11	1:E:310:LEU:O	2.19	0.43
1:E:274:THR:HG23	1:E:320:ILE:HD11	2.00	0.43
1:E:423:VAL:O	1:E:427:LEU:HB2	2.18	0.43
1:E:737:GLY:O	1:E:740:SER:OG	2.28	0.43
1:F:179:ARG:NH2	1:F:210:GLU:O	2.52	0.43
1:F:329:GLN:HA	1:F:360:ARG:HH22	1.83	0.43
1:F:423:VAL:O	1:F:427:LEU:HB2	2.18	0.43
1:F:453:ASN:OD1	1:F:455:THR:OG1	2.24	0.43
1:G:274:THR:HG23	1:G:320:ILE:HD11	2.01	0.43
1:I:169:LYS:HD2	1:I:170:GLN:O	2.19	0.43
1:I:179:ARG:NH2	1:I:210:GLU:O	2.52	0.43
1:J:52:THR:HG22	1:J:96:PRO:HB3	2.01	0.43
1:J:250:LEU:HD11	1:J:310:LEU:O	2.19	0.43
1:K:389:TYR:CE2	1:K:457:VAL:HA	2.54	0.43
1:M:80:GLN:HE22	1:M:101:PRO:HB2	1.83	0.43
1:M:595:SER:O	1:M:599:ILE:HG12	2.19	0.43
1:N:282:CYS:HB2	1:N:316:LEU:HD12	2.00	0.43
1:P:564:VAL:HB	1:P:631:ASN:ND2	2.33	0.43
1:P:746:LEU:HD13	1:Q:737:GLY:HA2	2.01	0.43
1:Q:779:LEU:HD11	1:R:777:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:543:TYR:CE1	1:S:572:CYS:HA	2.54	0.43
1:T:179:ARG:NH2	1:T:210:GLU:O	2.52	0.43
1:T:595:SER:O	1:T:599:ILE:HG12	2.19	0.43
1:T:606:PHE:O	1:T:622:ALA:HA	2.19	0.43
1:V:686:GLY:HA2	1:V:689:GLU:OE1	2.18	0.43
1:W:319:GLY:H	1:W:321:GLN:NE2	2.15	0.43
1:W:595:SER:O	1:W:599:ILE:HG12	2.19	0.43
1:X:52:THR:HG22	1:X:96:PRO:HB3	2.01	0.43
1:X:274:THR:HG23	1:X:320:ILE:HD11	2.01	0.43
1:X:746:LEU:HD13	1:Y:737:GLY:HA2	2.01	0.43
1:Z:797:GLU:CD	1:a:792:ALA:HB1	2.44	0.43
1:a:37:ARG:HH11	1:a:43:VAL:H	1.67	0.43
1:a:534:HIS:O	1:a:534:HIS:ND1	2.51	0.43
1:b:10:ILE:HB	1:b:33:LYS:O	2.19	0.43
1:b:592:HIS:NE2	1:c:531:THR:O	2.50	0.43
1:c:250:LEU:HD11	1:c:310:LEU:O	2.19	0.43
1:d:68:ASP:HB3	1:d:74:LEU:HD11	2.01	0.43
1:e:179:ARG:NH2	1:e:210:GLU:O	2.52	0.43
1:g:344:GLU:OE2	1:g:370:LYS:HD3	2.18	0.43
1:h:179:ARG:NH2	1:h:210:GLU:O	2.52	0.43
1:h:692:LYS:O	1:h:696:GLN:HG2	2.19	0.43
1:i:68:ASP:HB3	1:i:74:LEU:HD11	2.01	0.43
1:i:540:GLN:NE2	1:i:541:LEU:O	2.51	0.43
1:j:423:VAL:O	1:j:427:LEU:HB2	2.18	0.43
1:j:746:LEU:HD13	1:k:737:GLY:HA2	2.01	0.43
1:k:52:THR:HG22	1:k:96:PRO:HB3	2.01	0.43
1:k:80:GLN:HE22	1:k:101:PRO:HB2	1.83	0.43
1:l:329:GLN:HA	1:l:360:ARG:HH22	1.83	0.43
1:m:527:ILE:HD12	1:m:576:ALA:HB1	2.01	0.43
1:m:595:SER:O	1:m:599:ILE:HG12	2.19	0.43
1:A:344:GLU:OE2	1:A:370:LYS:HD3	2.18	0.43
1:A:792:ALA:HB1	1:m:797:GLU:CD	2.44	0.43
1:B:37:ARG:HH11	1:B:43:VAL:H	1.67	0.43
1:B:686:GLY:HA2	1:B:689:GLU:OE1	2.18	0.43
1:B:692:LYS:O	1:B:696:GLN:HG2	2.18	0.43
1:B:746:LEU:HD13	1:C:737:GLY:HA2	2.01	0.43
1:E:52:THR:HG22	1:E:96:PRO:HB3	2.01	0.43
1:E:56:ARG:NH2	1:F:156:GLU:HA	2.32	0.43
1:E:169:LYS:HD2	1:E:170:GLN:O	2.19	0.43
1:E:663:GLU:O	1:E:666:THR:OG1	2.26	0.43
1:F:606:PHE:O	1:F:622:ALA:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:797:GLU:CD	1:G:792:ALA:HB1	2.44	0.43
1:G:37:ARG:HH11	1:G:43:VAL:H	1.67	0.43
1:G:179:ARG:NH2	1:G:210:GLU:O	2.52	0.43
1:H:10:ILE:HB	1:H:33:LYS:O	2.19	0.43
1:H:688:LEU:HG	1:H:691:GLN:NE2	2.34	0.43
1:H:692:LYS:O	1:H:696:GLN:HG2	2.18	0.43
1:H:797:GLU:CD	1:I:792:ALA:HB1	2.44	0.43
1:I:56:ARG:HG2	1:J:127:LEU:HG	1.99	0.43
1:I:68:ASP:HB3	1:I:74:LEU:HD11	2.01	0.43
1:I:606:PHE:O	1:I:622:ALA:HA	2.19	0.43
1:I:743:GLN:HA	1:I:746:LEU:HG	2.00	0.43
1:J:543:TYR:CE1	1:J:572:CYS:HA	2.54	0.43
1:K:37:ARG:HH11	1:K:43:VAL:H	1.67	0.43
1:K:250:LEU:HD11	1:K:310:LEU:O	2.19	0.43
1:K:797:GLU:CD	1:L:792:ALA:HB1	2.44	0.43
1:L:179:ARG:NH2	1:L:210:GLU:O	2.52	0.43
1:L:389:TYR:CE2	1:L:457:VAL:HA	2.54	0.43
1:L:797:GLU:CD	1:M:792:ALA:HB1	2.44	0.43
1:M:52:THR:HG22	1:M:96:PRO:HB3	2.01	0.43
1:M:169:LYS:HD2	1:M:170:GLN:O	2.19	0.43
1:M:761:ARG:HH12	1:N:752:ALA:CA	2.32	0.43
1:N:540:GLN:NE2	1:N:541:LEU:O	2.51	0.43
1:N:606:PHE:O	1:N:622:ALA:HA	2.19	0.43
1:N:797:GLU:CD	1:O:792:ALA:HB1	2.44	0.43
1:O:56:ARG:HG2	1:P:127:LEU:HG	1.99	0.43
1:O:383:ASP:OD1	1:P:391:GLN:NE2	2.50	0.43
1:Q:10:ILE:HB	1:Q:33:LYS:O	2.19	0.43
1:Q:169:LYS:HD2	1:Q:170:GLN:O	2.19	0.43
1:Q:606:PHE:O	1:Q:622:ALA:HA	2.19	0.43
1:Q:692:LYS:O	1:Q:696:GLN:HG2	2.18	0.43
1:R:37:ARG:HH11	1:R:43:VAL:H	1.67	0.43
1:R:713:SER:HA	1:S:704:LYS:HZ2	1.84	0.43
1:T:527:ILE:HD12	1:T:576:ALA:HB1	2.01	0.43
1:T:543:TYR:CE1	1:T:572:CYS:HA	2.54	0.43
1:T:743:GLN:HA	1:T:746:LEU:HG	2.00	0.43
1:U:665:THR:OG1	1:V:589:ASP:OD2	2.19	0.43
1:U:688:LEU:HG	1:U:691:GLN:NE2	2.34	0.43
1:V:595:SER:O	1:V:599:ILE:HG12	2.19	0.43
1:W:37:ARG:HH11	1:W:43:VAL:H	1.67	0.43
1:W:169:LYS:HD2	1:W:170:GLN:O	2.19	0.43
1:X:527:ILE:HD12	1:X:576:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:250:LEU:HD11	1:Y:310:LEU:O	2.19	0.43
1:Z:169:LYS:HD2	1:Z:170:GLN:O	2.18	0.43
1:Z:595:SER:O	1:Z:599:ILE:HG12	2.19	0.43
1:a:56:ARG:NH2	1:b:156:GLU:HA	2.32	0.43
1:b:37:ARG:HH11	1:b:43:VAL:H	1.67	0.43
1:b:56:ARG:NH2	1:c:156:GLU:HA	2.32	0.43
1:b:423:VAL:O	1:b:427:LEU:HB2	2.18	0.43
1:b:595:SER:O	1:b:599:ILE:HG12	2.19	0.43
1:b:692:LYS:O	1:b:696:GLN:HG2	2.18	0.43
1:c:80:GLN:HE22	1:c:101:PRO:HB2	1.83	0.43
1:c:543:TYR:CE1	1:c:572:CYS:HA	2.54	0.43
1:d:169:LYS:HD2	1:d:170:GLN:O	2.19	0.43
1:d:597:ARG:NH2	1:e:585:SER:HB3	2.32	0.43
1:d:746:LEU:HD13	1:e:737:GLY:HA2	2.01	0.43
1:e:595:SER:O	1:e:599:ILE:HG12	2.19	0.43
1:e:797:GLU:CD	1:f:792:ALA:HB1	2.44	0.43
1:g:10:ILE:HB	1:g:33:LYS:O	2.19	0.43
1:g:68:ASP:HB3	1:g:74:LEU:HD11	2.01	0.43
1:h:169:LYS:HD2	1:h:170:GLN:O	2.19	0.43
1:j:10:ILE:HB	1:j:33:LYS:O	2.19	0.43
1:j:737:GLY:O	1:j:740:SER:OG	2.28	0.43
1:j:797:GLU:CD	1:k:792:ALA:HB1	2.44	0.43
1:k:797:GLU:CD	1:l:792:ALA:HB1	2.44	0.43
1:l:743:GLN:HA	1:l:746:LEU:HG	2.00	0.43
1:m:250:LEU:HD11	1:m:310:LEU:O	2.19	0.43
1:m:534:HIS:O	1:m:534:HIS:ND1	2.51	0.43
1:A:250:LEU:HD11	1:A:310:LEU:O	2.19	0.42
1:C:37:ARG:HH11	1:C:43:VAL:H	1.67	0.42
1:C:250:LEU:HD11	1:C:310:LEU:O	2.19	0.42
1:C:274:THR:HG23	1:C:320:ILE:HD11	2.00	0.42
1:C:383:ASP:OD1	1:D:391:GLN:NE2	2.50	0.42
1:C:389:TYR:CE2	1:C:457:VAL:HA	2.54	0.42
1:E:68:ASP:HB3	1:E:74:LEU:HD11	2.01	0.42
1:F:169:LYS:HD2	1:F:170:GLN:O	2.19	0.42
1:G:68:ASP:HB3	1:G:74:LEU:HD11	2.01	0.42
1:G:80:GLN:HE22	1:G:101:PRO:HB2	1.83	0.42
1:G:250:LEU:HD11	1:G:310:LEU:O	2.19	0.42
1:H:329:GLN:HA	1:H:360:ARG:HH22	1.83	0.42
1:J:10:ILE:HB	1:J:33:LYS:O	2.19	0.42
1:J:383:ASP:OD1	1:K:391:GLN:NE2	2.50	0.42
1:L:10:ILE:HB	1:L:33:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:746:LEU:HD13	1:M:737:GLY:HA2	2.01	0.42
1:M:56:ARG:NH2	1:N:156:GLU:HA	2.32	0.42
1:O:80:GLN:HE22	1:O:101:PRO:HB2	1.83	0.42
1:O:179:ARG:NH2	1:O:210:GLU:O	2.52	0.42
1:O:543:TYR:CE1	1:O:572:CYS:HA	2.54	0.42
1:P:688:LEU:HG	1:P:691:GLN:NE2	2.34	0.42
1:Q:52:THR:HG22	1:Q:96:PRO:HB3	2.01	0.42
1:R:344:GLU:OE2	1:R:370:LYS:HD3	2.18	0.42
1:S:80:GLN:HE22	1:S:101:PRO:HB2	1.83	0.42
1:S:274:THR:HG23	1:S:320:ILE:HD11	2.00	0.42
1:T:378:GLN:HG2	1:T:379:ALA:H	1.83	0.42
1:U:592:HIS:NE2	1:V:531:THR:O	2.50	0.42
1:U:759:LEU:HA	1:U:759:LEU:HD23	1.90	0.42
1:V:10:ILE:HB	1:V:33:LYS:O	2.19	0.42
1:X:68:ASP:HB3	1:X:74:LEU:HD11	2.01	0.42
1:X:595:SER:O	1:X:599:ILE:HG12	2.19	0.42
1:X:797:GLU:CD	1:Y:792:ALA:HB1	2.44	0.42
1:Y:10:ILE:HB	1:Y:33:LYS:O	2.19	0.42
1:Z:10:ILE:HB	1:Z:33:LYS:O	2.19	0.42
1:Z:543:TYR:CE1	1:Z:572:CYS:HA	2.54	0.42
1:Z:688:LEU:HG	1:Z:691:GLN:NE2	2.34	0.42
1:a:169:LYS:HD2	1:a:170:GLN:O	2.19	0.42
1:b:527:ILE:HD12	1:b:576:ALA:HB1	2.01	0.42
1:b:713:SER:HA	1:c:704:LYS:HZ2	1.84	0.42
1:c:746:LEU:HD13	1:d:737:GLY:HA2	2.01	0.42
1:c:761:ARG:HH12	1:d:752:ALA:CA	2.32	0.42
1:d:336:ALA:HB2	1:d:357:TRP:CZ3	2.54	0.42
1:d:389:TYR:CE2	1:d:457:VAL:HA	2.54	0.42
1:f:540:GLN:NE2	1:f:541:LEU:O	2.51	0.42
1:h:336:ALA:HB2	1:h:357:TRP:CZ3	2.54	0.42
1:h:389:TYR:CE2	1:h:457:VAL:HA	2.54	0.42
1:h:688:LEU:HG	1:h:691:GLN:NE2	2.34	0.42
1:i:10:ILE:HB	1:i:33:LYS:O	2.19	0.42
1:i:169:LYS:HD2	1:i:170:GLN:O	2.19	0.42
1:j:378:GLN:HG2	1:j:379:ALA:H	1.83	0.42
1:k:250:LEU:HD11	1:k:310:LEU:O	2.19	0.42
1:k:761:ARG:HH12	1:l:752:ALA:CA	2.32	0.42
1:l:56:ARG:NH2	1:m:156:GLU:HA	2.32	0.42
1:l:179:ARG:NH2	1:l:210:GLU:O	2.52	0.42
1:m:10:ILE:HB	1:m:33:LYS:O	2.19	0.42
1:m:336:ALA:HB2	1:m:357:TRP:CZ3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ASP:HB3	1:A:74:LEU:HD11	2.01	0.42
1:A:179:ARG:NH2	1:A:210:GLU:O	2.52	0.42
1:A:595:SER:O	1:A:599:ILE:HG12	2.19	0.42
1:B:10:ILE:HB	1:B:33:LYS:O	2.19	0.42
1:B:52:THR:HG22	1:B:96:PRO:HB3	2.01	0.42
1:B:282:CYS:HB2	1:B:316:LEU:HD12	2.00	0.42
1:C:765:VAL:O	1:C:768:MET:HG3	2.19	0.42
1:D:52:THR:HG22	1:D:96:PRO:HB3	2.01	0.42
1:D:68:ASP:HB3	1:D:74:LEU:HD11	2.01	0.42
1:D:527:ILE:HD12	1:D:576:ALA:HB1	2.01	0.42
1:D:688:LEU:HG	1:D:691:GLN:NE2	2.34	0.42
1:E:10:ILE:HB	1:E:33:LYS:O	2.19	0.42
1:E:738:GLU:O	1:F:734:ARG:NH2	2.53	0.42
1:F:336:ALA:HB2	1:F:357:TRP:CZ3	2.54	0.42
1:G:282:CYS:HB2	1:G:316:LEU:HD12	2.01	0.42
1:H:52:THR:HG22	1:H:96:PRO:HB3	2.01	0.42
1:H:543:TYR:CE1	1:H:572:CYS:HA	2.54	0.42
1:I:595:SER:O	1:I:599:ILE:HG12	2.19	0.42
1:I:761:ARG:HH12	1:J:752:ALA:CA	2.33	0.42
1:J:761:ARG:HH12	1:K:752:ALA:CA	2.32	0.42
1:K:52:THR:HG22	1:K:96:PRO:HB3	2.01	0.42
1:K:68:ASP:HB3	1:K:74:LEU:HD11	2.01	0.42
1:K:543:TYR:CE1	1:K:572:CYS:HA	2.54	0.42
1:K:692:LYS:O	1:K:696:GLN:HG2	2.18	0.42
1:L:453:ASN:OD1	1:L:455:THR:OG1	2.24	0.42
1:L:688:LEU:HG	1:L:691:GLN:NE2	2.34	0.42
1:N:329:GLN:HA	1:N:360:ARG:HH22	1.83	0.42
1:P:336:ALA:HB2	1:P:357:TRP:CZ3	2.54	0.42
1:Q:68:ASP:HB3	1:Q:74:LEU:HD11	2.01	0.42
1:Q:527:ILE:HD12	1:Q:576:ALA:HB1	2.01	0.42
1:R:273:ILE:HD11	1:R:307:SER:HB3	1.99	0.42
1:R:378:GLN:HG2	1:R:379:ALA:H	1.83	0.42
1:R:595:SER:O	1:R:599:ILE:HG12	2.19	0.42
1:R:688:LEU:HG	1:R:691:GLN:NE2	2.34	0.42
1:S:37:ARG:HH11	1:S:43:VAL:H	1.67	0.42
1:S:68:ASP:HB3	1:S:74:LEU:HD11	2.01	0.42
1:T:52:THR:HG22	1:T:96:PRO:HB3	2.01	0.42
1:T:765:VAL:O	1:T:768:MET:HG3	2.20	0.42
1:T:779:LEU:HD13	1:U:774:ARG:HE	1.82	0.42
1:U:80:GLN:HE22	1:U:101:PRO:HB2	1.83	0.42
1:U:389:TYR:CE2	1:U:457:VAL:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:765:VAL:O	1:U:768:MET:HG3	2.19	0.42
1:V:52:THR:HG22	1:V:96:PRO:HB3	2.01	0.42
1:V:179:ARG:NH2	1:V:210:GLU:O	2.52	0.42
1:V:378:GLN:HG2	1:V:379:ALA:H	1.83	0.42
1:V:761:ARG:HH12	1:W:752:ALA:CA	2.33	0.42
1:W:250:LEU:HD11	1:W:310:LEU:O	2.19	0.42
1:X:282:CYS:HB2	1:X:316:LEU:HD12	2.00	0.42
1:X:761:ARG:HH12	1:Y:752:ALA:CA	2.32	0.42
1:X:765:VAL:O	1:X:768:MET:HG3	2.20	0.42
1:Y:119:THR:OG1	1:Y:163:ILE:O	2.25	0.42
1:Y:595:SER:O	1:Y:599:ILE:HG12	2.19	0.42
1:Z:37:ARG:HH11	1:Z:43:VAL:H	1.67	0.42
1:Z:761:ARG:HH12	1:a:752:ALA:CA	2.33	0.42
1:a:274:THR:HG23	1:a:320:ILE:HD11	2.00	0.42
1:a:761:ARG:HH12	1:b:752:ALA:CA	2.33	0.42
1:b:329:GLN:HA	1:b:360:ARG:HH22	1.83	0.42
1:b:336:ALA:HB2	1:b:357:TRP:CZ3	2.54	0.42
1:c:52:THR:HG22	1:c:96:PRO:HB3	2.01	0.42
1:c:68:ASP:HB3	1:c:74:LEU:HD11	2.01	0.42
1:d:765:VAL:O	1:d:768:MET:HG3	2.19	0.42
1:e:336:ALA:HB2	1:e:357:TRP:CZ3	2.54	0.42
1:e:692:LYS:O	1:e:696:GLN:HG2	2.18	0.42
1:e:743:GLN:HA	1:e:746:LEU:HG	2.00	0.42
1:e:746:LEU:HD13	1:f:737:GLY:HA2	2.01	0.42
1:f:10:ILE:HB	1:f:33:LYS:O	2.19	0.42
1:f:169:LYS:HD2	1:f:170:GLN:O	2.19	0.42
1:f:336:ALA:HB2	1:f:357:TRP:CZ3	2.54	0.42
1:g:56:ARG:NH2	1:h:156:GLU:HA	2.32	0.42
1:i:595:SER:O	1:i:599:ILE:HG12	2.19	0.42
1:k:606:PHE:O	1:k:622:ALA:HA	2.19	0.42
1:l:80:GLN:HE22	1:l:101:PRO:HB2	1.83	0.42
1:l:282:CYS:HB2	1:l:316:LEU:HD12	2.00	0.42
1:l:389:TYR:CE2	1:l:457:VAL:HA	2.54	0.42
1:l:770:LEU:HD12	1:l:771:ILE:N	2.35	0.42
1:m:688:LEU:HG	1:m:691:GLN:NE2	2.34	0.42
1:A:10:ILE:HB	1:A:33:LYS:O	2.19	0.42
1:B:724:ALA:HB1	1:C:715:ALA:HA	2.02	0.42
1:B:770:LEU:HD12	1:B:771:ILE:N	2.35	0.42
1:C:606:PHE:O	1:C:622:ALA:HA	2.19	0.42
1:D:746:LEU:HD13	1:E:737:GLY:HA2	2.01	0.42
1:D:761:ARG:HH12	1:E:752:ALA:CA	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:ASP:OD1	1:E:241:VAL:N	2.44	0.42
1:E:534:HIS:O	1:E:534:HIS:ND1	2.51	0.42
1:F:10:ILE:HB	1:F:33:LYS:O	2.19	0.42
1:F:250:LEU:HD11	1:F:310:LEU:O	2.19	0.42
1:J:169:LYS:HD2	1:J:170:GLN:O	2.19	0.42
1:K:724:ALA:HB1	1:L:715:ALA:HA	2.02	0.42
1:L:169:LYS:HD2	1:L:170:GLN:O	2.19	0.42
1:L:564:VAL:HB	1:L:631:ASN:ND2	2.33	0.42
1:L:692:LYS:O	1:L:696:GLN:HG2	2.18	0.42
1:M:68:ASP:HB3	1:M:74:LEU:HD11	2.01	0.42
1:M:250:LEU:HD11	1:M:310:LEU:O	2.19	0.42
1:M:759:LEU:HA	1:M:759:LEU:HD23	1.90	0.42
1:M:770:LEU:HD12	1:M:771:ILE:N	2.35	0.42
1:N:389:TYR:CE2	1:N:457:VAL:HA	2.54	0.42
1:N:761:ARG:HH12	1:O:752:ALA:CA	2.32	0.42
1:O:10:ILE:HB	1:O:33:LYS:O	2.19	0.42
1:P:765:VAL:O	1:P:768:MET:HG3	2.20	0.42
1:R:10:ILE:HB	1:R:33:LYS:O	2.19	0.42
1:R:423:VAL:O	1:R:427:LEU:HB2	2.18	0.42
1:S:688:LEU:HG	1:S:691:GLN:NE2	2.34	0.42
1:T:68:ASP:HB3	1:T:74:LEU:HD11	2.01	0.42
1:T:274:THR:HG23	1:T:320:ILE:HD11	2.00	0.42
1:T:315:ARG:HD3	1:T:316:LEU:O	2.20	0.42
1:T:329:GLN:HA	1:T:360:ARG:HH22	1.83	0.42
1:T:336:ALA:HB2	1:T:357:TRP:CZ3	2.54	0.42
1:U:119:THR:OG1	1:U:163:ILE:O	2.25	0.42
1:V:389:TYR:CE2	1:V:457:VAL:HA	2.54	0.42
1:X:80:GLN:HE22	1:X:101:PRO:HB2	1.83	0.42
1:Y:543:TYR:CE1	1:Y:572:CYS:HA	2.54	0.42
1:Y:797:GLU:CD	1:Z:792:ALA:HB1	2.44	0.42
1:Z:179:ARG:NH2	1:Z:210:GLU:O	2.52	0.42
1:Z:315:ARG:HD3	1:Z:316:LEU:O	2.20	0.42
1:Z:527:ILE:HD12	1:Z:576:ALA:HB1	2.01	0.42
1:a:593:LYS:HA	1:a:593:LYS:HD2	1.91	0.42
1:b:765:VAL:O	1:b:768:MET:HG3	2.20	0.42
1:b:801:ALA:HB3	1:c:796:LYS:HZ3	1.84	0.42
1:c:724:ALA:HB1	1:d:715:ALA:HA	2.02	0.42
1:c:738:GLU:O	1:d:734:ARG:NH2	2.53	0.42
1:d:179:ARG:NH2	1:d:210:GLU:O	2.52	0.42
1:d:329:GLN:HA	1:d:360:ARG:HH22	1.83	0.42
1:d:688:LEU:HG	1:d:691:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:527:ILE:HD12	1:e:576:ALA:HB1	2.01	0.42
1:f:770:LEU:HD12	1:f:771:ILE:N	2.35	0.42
1:g:606:PHE:O	1:g:622:ALA:HA	2.19	0.42
1:g:738:GLU:O	1:h:734:ARG:NH2	2.53	0.42
1:h:37:ARG:HH11	1:h:43:VAL:H	1.67	0.42
1:i:564:VAL:HB	1:i:631:ASN:ND2	2.33	0.42
1:j:52:THR:HG22	1:j:96:PRO:HB3	2.01	0.42
1:l:738:GLU:O	1:m:734:ARG:NH2	2.53	0.42
1:m:543:TYR:CE1	1:m:572:CYS:HA	2.54	0.42
1:A:37:ARG:HH11	1:A:43:VAL:H	1.67	0.42
1:B:738:GLU:O	1:C:734:ARG:NH2	2.53	0.42
1:C:761:ARG:HH12	1:D:752:ALA:CA	2.32	0.42
1:D:20:ASP:HB3	1:D:23:SER:HB3	2.02	0.42
1:D:738:GLU:O	1:E:734:ARG:NH2	2.53	0.42
1:E:595:SER:O	1:E:599:ILE:HG12	2.19	0.42
1:E:735:ILE:HD12	1:F:726:ALA:HB3	2.02	0.42
1:F:237:ASP:OD1	1:F:241:VAL:N	2.44	0.42
1:F:282:CYS:HB2	1:F:316:LEU:HD12	2.01	0.42
1:F:692:LYS:O	1:F:696:GLN:HG2	2.19	0.42
1:F:765:VAL:O	1:F:768:MET:HG3	2.20	0.42
1:G:738:GLU:O	1:H:734:ARG:NH2	2.53	0.42
1:H:595:SER:O	1:H:599:ILE:HG12	2.19	0.42
1:H:713:SER:HA	1:I:704:LYS:HZ2	1.85	0.42
1:H:738:GLU:O	1:I:734:ARG:NH2	2.53	0.42
1:I:20:ASP:HB3	1:I:23:SER:HB3	2.02	0.42
1:I:692:LYS:O	1:I:696:GLN:HG2	2.18	0.42
1:I:765:VAL:O	1:I:768:MET:HG3	2.20	0.42
1:I:779:LEU:HD13	1:J:774:ARG:HE	1.82	0.42
1:J:37:ARG:HH11	1:J:43:VAL:H	1.67	0.42
1:J:389:TYR:CE2	1:J:457:VAL:HA	2.54	0.42
1:L:20:ASP:HB3	1:L:23:SER:HB3	2.02	0.42
1:L:423:VAL:O	1:L:427:LEU:HB2	2.18	0.42
1:L:527:ILE:HD12	1:L:576:ALA:HB1	2.01	0.42
1:M:335:LYS:HG3	1:M:374:VAL:HG21	2.02	0.42
1:M:336:ALA:HB2	1:M:357:TRP:CZ3	2.54	0.42
1:M:765:VAL:O	1:M:768:MET:HG3	2.20	0.42
1:N:10:ILE:HB	1:N:33:LYS:O	2.19	0.42
1:N:250:LEU:HD11	1:N:310:LEU:O	2.19	0.42
1:N:315:ARG:HD3	1:N:316:LEU:O	2.20	0.42
1:N:383:ASP:OD1	1:O:391:GLN:NE2	2.50	0.42
1:N:543:TYR:CE1	1:N:572:CYS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:738:GLU:O	1:O:734:ARG:NH2	2.53	0.42
1:O:282:CYS:HB2	1:O:316:LEU:HD12	2.00	0.42
1:O:527:ILE:HD12	1:O:576:ALA:HB1	2.01	0.42
1:O:595:SER:O	1:O:599:ILE:HG12	2.19	0.42
1:O:737:GLY:O	1:O:740:SER:OG	2.28	0.42
1:O:738:GLU:O	1:P:734:ARG:NH2	2.53	0.42
1:O:770:LEU:HD12	1:O:771:ILE:N	2.35	0.42
1:P:52:THR:HG22	1:P:96:PRO:HB3	2.01	0.42
1:P:595:SER:O	1:P:599:ILE:HG12	2.19	0.42
1:P:797:GLU:CD	1:Q:792:ALA:HB1	2.44	0.42
1:Q:315:ARG:HD3	1:Q:316:LEU:O	2.20	0.42
1:Q:543:TYR:CE1	1:Q:572:CYS:HA	2.54	0.42
1:Q:595:SER:O	1:Q:599:ILE:HG12	2.19	0.42
1:Q:742:LEU:HB3	1:R:734:ARG:CZ	2.50	0.42
1:Q:753:ILE:HA	1:Q:756:GLU:HG3	2.02	0.42
1:Q:765:VAL:O	1:Q:768:MET:HG3	2.19	0.42
1:R:52:THR:HG22	1:R:96:PRO:HB3	2.01	0.42
1:R:179:ARG:NH2	1:R:210:GLU:O	2.52	0.42
1:R:329:GLN:HA	1:R:360:ARG:HH22	1.83	0.42
1:S:780:GLU:HG3	1:S:783:LYS:NZ	2.35	0.42
1:U:770:LEU:HD12	1:U:771:ILE:N	2.35	0.42
1:V:543:TYR:CE1	1:V:572:CYS:HA	2.54	0.42
1:W:179:ARG:NH2	1:W:210:GLU:O	2.52	0.42
1:W:274:THR:HG23	1:W:320:ILE:HD11	2.00	0.42
1:W:335:LYS:HG3	1:W:374:VAL:HG21	2.02	0.42
1:W:383:ASP:OD1	1:X:391:GLN:NE2	2.50	0.42
1:W:597:ARG:NH2	1:X:585:SER:HB3	2.32	0.42
1:W:606:PHE:O	1:W:622:ALA:HA	2.19	0.42
1:W:688:LEU:HG	1:W:691:GLN:NE2	2.34	0.42
1:Y:274:THR:HG23	1:Y:320:ILE:HD11	2.00	0.42
1:Z:250:LEU:HD11	1:Z:310:LEU:O	2.19	0.42
1:Z:663:GLU:O	1:Z:666:THR:OG1	2.26	0.42
1:a:52:THR:HG22	1:a:96:PRO:HB3	2.01	0.42
1:a:765:VAL:O	1:a:768:MET:HG3	2.19	0.42
1:a:770:LEU:HD12	1:a:771:ILE:N	2.35	0.42
1:a:780:GLU:HG3	1:a:783:LYS:NZ	2.35	0.42
1:d:10:ILE:HB	1:d:33:LYS:O	2.19	0.42
1:d:738:GLU:O	1:e:734:ARG:NH2	2.53	0.42
1:e:389:TYR:CE2	1:e:457:VAL:HA	2.54	0.42
1:e:761:ARG:HH12	1:f:752:ALA:CA	2.32	0.42
1:e:765:VAL:O	1:e:768:MET:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:37:ARG:HH11	1:f:43:VAL:H	1.67	0.42
1:f:179:ARG:NH2	1:f:210:GLU:O	2.52	0.42
1:f:315:ARG:HD3	1:f:316:LEU:O	2.20	0.42
1:f:378:GLN:HG2	1:f:379:ALA:H	1.83	0.42
1:f:595:SER:O	1:f:599:ILE:HG12	2.19	0.42
1:f:738:GLU:O	1:g:734:ARG:NH2	2.53	0.42
1:g:250:LEU:HD11	1:g:310:LEU:O	2.19	0.42
1:h:797:GLU:CD	1:i:792:ALA:HB1	2.44	0.42
1:i:179:ARG:NH2	1:i:210:GLU:O	2.52	0.42
1:j:543:TYR:CE1	1:j:572:CYS:HA	2.54	0.42
1:j:724:ALA:HB1	1:k:715:ALA:HA	2.02	0.42
1:j:742:LEU:HB3	1:k:734:ARG:CZ	2.50	0.42
1:k:179:ARG:NH2	1:k:210:GLU:O	2.52	0.42
1:k:688:LEU:HG	1:k:691:GLN:NE2	2.34	0.42
1:k:746:LEU:HD13	1:l:737:GLY:HA2	2.01	0.42
1:l:378:GLN:HG2	1:l:379:ALA:H	1.83	0.42
1:l:595:SER:O	1:l:599:ILE:HG12	2.19	0.42
1:l:724:ALA:HB1	1:m:715:ALA:HA	2.02	0.42
1:l:746:LEU:HD13	1:m:737:GLY:HA2	2.01	0.42
1:m:169:LYS:HD2	1:m:170:GLN:O	2.19	0.42
1:m:765:VAL:O	1:m:768:MET:HG3	2.19	0.42
1:A:592:HIS:NE2	1:B:531:THR:O	2.50	0.42
1:A:715:ALA:HA	1:m:724:ALA:HB1	2.02	0.42
1:A:734:ARG:CZ	1:m:742:LEU:HB3	2.50	0.42
1:B:250:LEU:HD11	1:B:310:LEU:O	2.19	0.42
1:B:725:GLU:O	1:B:728:SER:OG	2.37	0.42
1:C:543:TYR:CE1	1:C:572:CYS:HA	2.54	0.42
1:C:738:GLU:O	1:D:734:ARG:NH2	2.53	0.42
1:C:780:GLU:HG3	1:C:783:LYS:NZ	2.35	0.42
1:D:335:LYS:HG3	1:D:374:VAL:HG21	2.02	0.42
1:D:724:ALA:HB1	1:E:715:ALA:HA	2.02	0.42
1:E:179:ARG:NH2	1:E:210:GLU:O	2.52	0.42
1:E:688:LEU:HG	1:E:691:GLN:NE2	2.34	0.42
1:E:742:LEU:HB3	1:F:734:ARG:CZ	2.50	0.42
1:E:761:ARG:HH12	1:F:752:ALA:CA	2.32	0.42
1:G:56:ARG:NH2	1:H:156:GLU:HA	2.32	0.42
1:G:564:VAL:HB	1:G:631:ASN:ND2	2.33	0.42
1:G:724:ALA:HB1	1:H:715:ALA:HA	2.02	0.42
1:H:169:LYS:HD2	1:H:170:GLN:O	2.19	0.42
1:H:282:CYS:HB2	1:H:316:LEU:HD12	2.00	0.42
1:H:336:ALA:HB2	1:H:357:TRP:CZ3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:765:VAL:O	1:H:769:GLU:HG2	2.20	0.42
1:J:336:ALA:HB2	1:J:357:TRP:CZ3	2.54	0.42
1:J:743:GLN:HA	1:J:746:LEU:HG	2.00	0.42
1:K:688:LEU:HG	1:K:691:GLN:NE2	2.34	0.42
1:L:282:CYS:HB2	1:L:316:LEU:HD12	2.00	0.42
1:L:770:LEU:HD12	1:L:771:ILE:N	2.35	0.42
1:M:10:ILE:HB	1:M:33:LYS:O	2.19	0.42
1:M:527:ILE:HD12	1:M:576:ALA:HB1	2.01	0.42
1:M:746:LEU:HD13	1:N:737:GLY:HA2	2.01	0.42
1:M:797:GLU:CD	1:N:792:ALA:HB1	2.44	0.42
1:N:20:ASP:HB3	1:N:23:SER:HB3	2.02	0.42
1:O:169:LYS:HD2	1:O:170:GLN:O	2.19	0.42
1:P:10:ILE:HB	1:P:33:LYS:O	2.19	0.42
1:P:692:LYS:O	1:P:696:GLN:HG2	2.19	0.42
1:P:770:LEU:HD12	1:P:771:ILE:N	2.35	0.42
1:P:773:ALA:HA	1:P:776:GLN:HG2	2.02	0.42
1:R:543:TYR:CE1	1:R:572:CYS:HA	2.54	0.42
1:R:770:LEU:HD12	1:R:771:ILE:N	2.35	0.42
1:S:179:ARG:NH2	1:S:210:GLU:O	2.52	0.42
1:S:770:LEU:HD12	1:S:771:ILE:N	2.35	0.42
1:S:797:GLU:CD	1:T:792:ALA:HB1	2.44	0.42
1:T:389:TYR:CE2	1:T:457:VAL:HA	2.53	0.42
1:T:688:LEU:HG	1:T:691:GLN:NE2	2.34	0.42
1:U:10:ILE:HB	1:U:33:LYS:O	2.19	0.42
1:V:20:ASP:HB3	1:V:23:SER:HB3	2.02	0.42
1:V:704:LYS:HA	1:V:704:LYS:HD2	1.88	0.42
1:V:770:LEU:HD12	1:V:771:ILE:N	2.35	0.42
1:W:378:GLN:HG2	1:W:379:ALA:H	1.83	0.42
1:W:663:GLU:O	1:W:666:THR:OG1	2.26	0.42
1:W:742:LEU:HB3	1:X:734:ARG:CZ	2.50	0.42
1:X:329:GLN:HA	1:X:360:ARG:HH22	1.83	0.42
1:X:770:LEU:HD12	1:X:771:ILE:N	2.35	0.42
1:Y:724:ALA:HB1	1:Z:715:ALA:HA	2.02	0.42
1:Y:742:LEU:HB3	1:Z:734:ARG:CZ	2.50	0.42
1:a:378:GLN:HG2	1:a:379:ALA:H	1.83	0.42
1:a:389:TYR:CE2	1:a:457:VAL:HA	2.54	0.42
1:a:780:GLU:HG3	1:a:783:LYS:HZ3	1.84	0.42
1:b:746:LEU:HD13	1:c:737:GLY:HA2	2.01	0.42
1:c:237:ASP:OD1	1:c:241:VAL:N	2.45	0.42
1:c:765:VAL:O	1:c:769:GLU:HG2	2.20	0.42
1:d:335:LYS:HG3	1:d:374:VAL:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:274:THR:HG23	1:e:320:ILE:HD11	2.00	0.42
1:e:543:TYR:CE1	1:e:572:CYS:HA	2.54	0.42
1:f:746:LEU:HD13	1:g:737:GLY:HA2	2.01	0.42
1:f:780:GLU:HG3	1:f:783:LYS:NZ	2.35	0.42
1:g:315:ARG:HD3	1:g:316:LEU:O	2.20	0.42
1:g:336:ALA:HB2	1:g:357:TRP:CZ3	2.54	0.42
1:h:738:GLU:O	1:i:734:ARG:NH2	2.53	0.42
1:h:761:ARG:HH12	1:i:752:ALA:CA	2.33	0.42
1:i:336:ALA:HB2	1:i:357:TRP:CZ3	2.54	0.42
1:j:20:ASP:HB3	1:j:23:SER:HB3	2.02	0.42
1:j:179:ARG:NH2	1:j:210:GLU:O	2.52	0.42
1:j:593:LYS:HA	1:j:593:LYS:HD2	1.91	0.42
1:k:423:VAL:O	1:k:427:LEU:HB2	2.18	0.42
1:k:595:SER:O	1:k:599:ILE:HG12	2.19	0.42
1:l:606:PHE:O	1:l:622:ALA:HA	2.19	0.42
1:l:765:VAL:O	1:l:768:MET:HG3	2.20	0.42
1:m:315:ARG:HD3	1:m:316:LEU:O	2.20	0.42
1:m:389:TYR:CE2	1:m:457:VAL:HA	2.54	0.42
1:m:765:VAL:O	1:m:769:GLU:HG2	2.20	0.42
1:A:724:ALA:HB1	1:B:715:ALA:HA	2.02	0.42
1:A:737:GLY:HA2	1:m:746:LEU:HD13	2.01	0.42
1:A:761:ARG:HH12	1:B:752:ALA:CA	2.32	0.42
1:B:761:ARG:HH12	1:C:752:ALA:CA	2.32	0.42
1:C:724:ALA:HB1	1:D:715:ALA:HA	2.02	0.42
1:E:527:ILE:HD12	1:E:576:ALA:HB1	2.01	0.42
1:E:770:LEU:HD12	1:E:771:ILE:N	2.35	0.42
1:F:52:THR:HG22	1:F:96:PRO:HB3	2.01	0.42
1:F:753:ILE:HA	1:F:756:GLU:HG3	2.02	0.42
1:F:761:ARG:HH12	1:G:752:ALA:CA	2.32	0.42
1:F:770:LEU:HD12	1:F:771:ILE:N	2.35	0.42
1:G:315:ARG:HD3	1:G:316:LEU:O	2.20	0.42
1:G:389:TYR:CE2	1:G:457:VAL:HA	2.54	0.42
1:G:597:ARG:NH2	1:H:585:SER:HB3	2.32	0.42
1:G:692:LYS:O	1:G:696:GLN:HG2	2.19	0.42
1:G:746:LEU:HD13	1:H:737:GLY:HA2	2.01	0.42
1:G:770:LEU:HD12	1:G:771:ILE:N	2.35	0.42
1:H:274:THR:HG23	1:H:320:ILE:HD11	2.00	0.42
1:H:606:PHE:O	1:H:622:ALA:HA	2.19	0.42
1:H:724:ALA:HB1	1:I:715:ALA:HA	2.02	0.42
1:H:761:ARG:HH12	1:I:752:ALA:CA	2.33	0.42
1:H:770:LEU:HD12	1:H:771:ILE:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:80:GLN:HE22	1:I:101:PRO:HB2	1.83	0.42
1:I:315:ARG:HD3	1:I:316:LEU:O	2.20	0.42
1:I:738:GLU:O	1:J:734:ARG:NH2	2.53	0.42
1:J:20:ASP:HB3	1:J:23:SER:HB3	2.02	0.42
1:J:315:ARG:HD3	1:J:316:LEU:O	2.20	0.42
1:J:663:GLU:O	1:J:666:THR:OG1	2.26	0.42
1:K:746:LEU:HD13	1:L:737:GLY:HA2	2.01	0.42
1:K:773:ALA:HA	1:K:776:GLN:HG2	2.02	0.42
1:L:52:THR:HG22	1:L:96:PRO:HB3	2.01	0.42
1:L:68:ASP:HB3	1:L:74:LEU:HD11	2.01	0.42
1:L:543:TYR:CE1	1:L:572:CYS:HA	2.54	0.42
1:L:713:SER:O	1:L:716:VAL:N	2.50	0.42
1:L:735:ILE:HD12	1:M:726:ALA:HB3	2.02	0.42
1:L:765:VAL:O	1:L:768:MET:HG3	2.19	0.42
1:L:773:ALA:HA	1:L:776:GLN:HG2	2.02	0.42
1:N:595:SER:O	1:N:599:ILE:HG12	2.19	0.42
1:N:724:ALA:HB1	1:O:715:ALA:HA	2.02	0.42
1:N:742:LEU:HB3	1:O:734:ARG:CZ	2.50	0.42
1:O:780:GLU:HG3	1:O:783:LYS:NZ	2.35	0.42
1:P:237:ASP:OD1	1:P:241:VAL:N	2.44	0.42
1:Q:335:LYS:HG3	1:Q:374:VAL:HG21	2.02	0.42
1:Q:663:GLU:O	1:Q:666:THR:OG1	2.26	0.42
1:R:765:VAL:O	1:R:769:GLU:HG2	2.20	0.42
1:S:169:LYS:HD2	1:S:170:GLN:O	2.19	0.42
1:S:336:ALA:HB2	1:S:357:TRP:CZ3	2.54	0.42
1:S:606:PHE:O	1:S:622:ALA:HA	2.19	0.42
1:S:735:ILE:HD12	1:T:726:ALA:HB3	2.02	0.42
1:S:737:GLY:O	1:S:740:SER:OG	2.28	0.42
1:T:10:ILE:HB	1:T:33:LYS:O	2.19	0.42
1:T:282:CYS:HB2	1:T:316:LEU:HD12	2.00	0.42
1:T:725:GLU:O	1:T:728:SER:OG	2.38	0.42
1:T:746:LEU:HD13	1:U:737:GLY:HA2	2.01	0.42
1:T:797:GLU:CD	1:U:792:ALA:HB1	2.44	0.42
1:U:761:ARG:HH12	1:V:752:ALA:CA	2.32	0.42
1:V:282:CYS:HB2	1:V:316:LEU:HD12	2.00	0.42
1:W:315:ARG:HD3	1:W:316:LEU:O	2.20	0.42
1:X:724:ALA:HB1	1:Y:715:ALA:HA	2.02	0.42
1:X:780:GLU:HG3	1:X:783:LYS:NZ	2.35	0.42
1:Y:765:VAL:O	1:Y:768:MET:HG3	2.20	0.42
1:Z:335:LYS:HG3	1:Z:374:VAL:HG21	2.02	0.42
1:Z:378:GLN:HG2	1:Z:379:ALA:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:250:LEU:HD11	1:a:310:LEU:O	2.19	0.42
1:a:543:TYR:CE1	1:a:572:CYS:HA	2.54	0.42
1:a:743:GLN:HA	1:a:746:LEU:HG	2.00	0.42
1:b:743:GLN:HA	1:b:746:LEU:HG	2.00	0.42
1:b:765:VAL:O	1:b:769:GLU:HG2	2.20	0.42
1:b:780:GLU:HG3	1:b:783:LYS:NZ	2.35	0.42
1:c:10:ILE:HB	1:c:33:LYS:O	2.19	0.42
1:c:37:ARG:HH11	1:c:43:VAL:H	1.67	0.42
1:d:56:ARG:NH2	1:e:156:GLU:HA	2.32	0.42
1:d:543:TYR:CE1	1:d:572:CYS:HA	2.54	0.42
1:d:770:LEU:HD12	1:d:771:ILE:N	2.35	0.42
1:e:688:LEU:HG	1:e:691:GLN:NE2	2.34	0.42
1:e:738:GLU:O	1:f:734:ARG:NH2	2.53	0.42
1:e:742:LEU:HB3	1:f:734:ARG:CZ	2.50	0.42
1:e:765:VAL:O	1:e:769:GLU:HG2	2.20	0.42
1:f:389:TYR:CE2	1:f:457:VAL:HA	2.54	0.42
1:f:606:PHE:O	1:f:622:ALA:HA	2.19	0.42
1:h:595:SER:O	1:h:599:ILE:HG12	2.19	0.42
1:h:735:ILE:HD12	1:i:726:ALA:HB3	2.02	0.42
1:i:606:PHE:O	1:i:622:ALA:HA	2.19	0.42
1:i:770:LEU:HD12	1:i:771:ILE:N	2.35	0.42
1:i:773:ALA:HA	1:i:776:GLN:HG2	2.02	0.42
1:j:606:PHE:O	1:j:622:ALA:HA	2.19	0.42
1:j:753:ILE:HA	1:j:756:GLU:HG3	2.02	0.42
1:k:237:ASP:OD1	1:k:241:VAL:N	2.44	0.42
1:k:724:ALA:HB1	1:l:715:ALA:HA	2.02	0.42
1:k:765:VAL:O	1:k:768:MET:HG3	2.19	0.42
1:l:543:TYR:CE1	1:l:572:CYS:HA	2.54	0.42
1:m:37:ARG:HH11	1:m:43:VAL:H	1.67	0.42
1:m:179:ARG:NH2	1:m:210:GLU:O	2.52	0.42
1:m:335:LYS:HG3	1:m:374:VAL:HG21	2.02	0.42
1:m:593:LYS:HA	1:m:593:LYS:HD2	1.91	0.42
1:A:52:THR:HG22	1:A:96:PRO:HB3	2.01	0.42
1:A:274:THR:HG23	1:A:320:ILE:HD11	2.00	0.42
1:A:734:ARG:NH2	1:m:738:GLU:O	2.53	0.42
1:A:738:GLU:O	1:B:734:ARG:NH2	2.53	0.42
1:A:752:ALA:CA	1:m:761:ARG:HH12	2.32	0.42
1:A:765:VAL:O	1:A:769:GLU:HG2	2.20	0.42
1:B:179:ARG:NH2	1:B:210:GLU:O	2.52	0.42
1:B:527:ILE:HD12	1:B:576:ALA:HB1	2.01	0.42
1:B:592:HIS:NE2	1:C:531:THR:O	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:735:ILE:HD12	1:E:726:ALA:HB3	2.02	0.42
1:E:773:ALA:HA	1:E:776:GLN:HG2	2.02	0.42
1:G:10:ILE:HB	1:G:33:LYS:O	2.19	0.42
1:G:592:HIS:NE2	1:H:531:THR:O	2.50	0.42
1:G:735:ILE:HD12	1:H:726:ALA:HB3	2.02	0.42
1:G:765:VAL:O	1:G:768:MET:HG3	2.20	0.42
1:H:20:ASP:HB3	1:H:23:SER:HB3	2.02	0.42
1:I:336:ALA:HB2	1:I:357:TRP:CZ3	2.54	0.42
1:I:746:LEU:HD13	1:J:737:GLY:HA2	2.01	0.42
1:I:770:LEU:HD12	1:I:771:ILE:N	2.35	0.42
1:J:453:ASN:OD1	1:J:455:THR:OG1	2.24	0.42
1:J:725:GLU:O	1:J:728:SER:OG	2.38	0.42
1:J:770:LEU:HD12	1:J:771:ILE:N	2.35	0.42
1:K:20:ASP:HB3	1:K:23:SER:HB3	2.02	0.42
1:K:738:GLU:O	1:L:734:ARG:NH2	2.53	0.42
1:K:742:LEU:HB3	1:L:734:ARG:CZ	2.50	0.42
1:K:765:VAL:O	1:K:769:GLU:HG2	2.20	0.42
1:M:20:ASP:HB3	1:M:23:SER:HB3	2.02	0.42
1:N:531:THR:HG22	1:N:588:PHE:CE1	2.52	0.42
1:O:250:LEU:HD11	1:O:310:LEU:O	2.19	0.42
1:Q:797:GLU:CD	1:R:792:ALA:HB1	2.44	0.42
1:R:335:LYS:HG3	1:R:374:VAL:HG21	2.02	0.42
1:R:338:GLN:HB3	1:R:370:LYS:HZ1	1.84	0.42
1:S:389:TYR:CE2	1:S:457:VAL:HA	2.54	0.42
1:S:595:SER:O	1:S:599:ILE:HG12	2.19	0.42
1:S:761:ARG:HH12	1:T:752:ALA:CA	2.33	0.42
1:S:765:VAL:O	1:S:768:MET:HG3	2.20	0.42
1:T:765:VAL:O	1:T:769:GLU:HG2	2.20	0.42
1:U:169:LYS:HD2	1:U:170:GLN:O	2.19	0.42
1:U:746:LEU:HD13	1:V:737:GLY:HA2	2.01	0.42
1:V:663:GLU:O	1:V:666:THR:OG1	2.26	0.42
1:W:527:ILE:HD12	1:W:576:ALA:HB1	2.01	0.42
1:X:250:LEU:HD11	1:X:310:LEU:O	2.19	0.42
1:Y:746:LEU:HD13	1:Z:737:GLY:HA2	2.01	0.42
1:Y:761:ARG:HH12	1:Z:752:ALA:CA	2.33	0.42
1:Z:20:ASP:HB3	1:Z:23:SER:HB3	2.02	0.42
1:Z:770:LEU:HD12	1:Z:771:ILE:N	2.35	0.42
1:b:383:ASP:OD1	1:c:391:GLN:NE2	2.50	0.42
1:b:738:GLU:O	1:c:734:ARG:NH2	2.53	0.42
1:b:797:GLU:CD	1:c:792:ALA:HB1	2.44	0.42
1:c:606:PHE:O	1:c:622:ALA:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:770:LEU:HD12	1:c:771:ILE:N	2.35	0.42
1:d:527:ILE:HD12	1:d:576:ALA:HB1	2.01	0.42
1:d:592:HIS:NE2	1:e:531:THR:O	2.50	0.42
1:e:735:ILE:HD12	1:f:726:ALA:HB3	2.02	0.42
1:e:780:GLU:HG3	1:e:783:LYS:NZ	2.35	0.42
1:f:250:LEU:HD11	1:f:310:LEU:O	2.19	0.42
1:f:274:THR:HG23	1:f:320:ILE:HD11	2.00	0.42
1:g:742:LEU:HB3	1:h:734:ARG:CZ	2.50	0.42
1:g:753:ILE:HA	1:g:756:GLU:HG3	2.02	0.42
1:h:250:LEU:HD11	1:h:310:LEU:O	2.19	0.42
1:h:606:PHE:O	1:h:622:ALA:HA	2.19	0.42
1:h:770:LEU:HD12	1:h:771:ILE:N	2.35	0.42
1:i:761:ARG:HH12	1:j:752:ALA:CA	2.32	0.42
1:j:765:VAL:O	1:j:768:MET:HG3	2.19	0.42
1:k:593:LYS:HA	1:k:593:LYS:HD2	1.91	0.42
1:l:735:ILE:HD12	1:m:726:ALA:HB3	2.02	0.42
1:l:765:VAL:O	1:l:769:GLU:HG2	2.20	0.42
1:m:52:THR:HG22	1:m:96:PRO:HB3	2.01	0.42
1:A:20:ASP:HB3	1:A:23:SER:HB3	2.02	0.42
1:A:315:ARG:HD3	1:A:316:LEU:O	2.20	0.42
1:A:594:ASN:OD1	1:A:597:ARG:NE	2.46	0.42
1:A:753:ILE:HA	1:A:756:GLU:HG3	2.02	0.42
1:B:735:ILE:HD12	1:C:726:ALA:HB3	2.02	0.42
1:B:743:GLN:HA	1:B:746:LEU:HG	2.00	0.42
1:B:797:GLU:CD	1:C:792:ALA:HB1	2.44	0.42
1:C:10:ILE:HB	1:C:33:LYS:O	2.19	0.42
1:C:282:CYS:HB2	1:C:316:LEU:HD12	2.00	0.42
1:C:704:LYS:HA	1:C:704:LYS:HD2	1.89	0.42
1:D:773:ALA:HA	1:D:776:GLN:HG2	2.02	0.42
1:D:797:GLU:CD	1:E:792:ALA:HB1	2.44	0.42
1:E:335:LYS:HG3	1:E:374:VAL:HG21	2.02	0.42
1:F:735:ILE:HD12	1:G:726:ALA:HB3	2.02	0.42
1:F:738:GLU:O	1:G:734:ARG:NH2	2.53	0.42
1:G:383:ASP:OD1	1:H:391:GLN:NE2	2.50	0.42
1:G:453:ASN:OD1	1:G:455:THR:OG1	2.24	0.42
1:G:543:TYR:CE1	1:G:572:CYS:HA	2.54	0.42
1:G:797:GLU:CD	1:H:792:ALA:HB1	2.44	0.42
1:H:250:LEU:HD11	1:H:310:LEU:O	2.19	0.42
1:H:725:GLU:O	1:H:728:SER:OG	2.38	0.42
1:H:735:ILE:HD12	1:I:726:ALA:HB3	2.02	0.42
1:I:52:THR:HG22	1:I:96:PRO:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:742:LEU:HB3	1:J:734:ARG:CZ	2.50	0.42
1:K:282:CYS:HB2	1:K:316:LEU:HD12	2.00	0.42
1:L:335:LYS:HG3	1:L:374:VAL:HG21	2.02	0.42
1:L:336:ALA:HB2	1:L:357:TRP:CZ3	2.54	0.42
1:L:378:GLN:HG2	1:L:379:ALA:H	1.83	0.42
1:L:595:SER:O	1:L:599:ILE:HG12	2.19	0.42
1:L:606:PHE:O	1:L:622:ALA:HA	2.19	0.42
1:L:738:GLU:O	1:M:734:ARG:NH2	2.53	0.42
1:M:738:GLU:O	1:N:734:ARG:NH2	2.53	0.42
1:N:336:ALA:HB2	1:N:357:TRP:CZ3	2.54	0.42
1:N:780:GLU:HG3	1:N:783:LYS:NZ	2.35	0.42
1:O:765:VAL:O	1:O:768:MET:HG3	2.19	0.42
1:P:735:ILE:HD12	1:Q:726:ALA:HB3	2.02	0.42
1:P:761:ARG:HH12	1:Q:752:ALA:CA	2.32	0.42
1:P:780:GLU:HG3	1:P:783:LYS:NZ	2.35	0.42
1:R:20:ASP:HB3	1:R:23:SER:HB3	2.02	0.42
1:R:738:GLU:O	1:S:734:ARG:NH2	2.53	0.42
1:S:20:ASP:HB3	1:S:23:SER:HB3	2.02	0.42
1:S:765:VAL:O	1:S:769:GLU:HG2	2.20	0.42
1:U:315:ARG:HD3	1:U:316:LEU:O	2.20	0.42
1:V:753:ILE:HA	1:V:756:GLU:HG3	2.02	0.42
1:V:765:VAL:O	1:V:769:GLU:HG2	2.20	0.42
1:V:780:GLU:HG3	1:V:783:LYS:NZ	2.35	0.42
1:W:423:VAL:O	1:W:427:LEU:HB2	2.18	0.42
1:W:543:TYR:CE1	1:W:572:CYS:HA	2.54	0.42
1:Y:606:PHE:O	1:Y:622:ALA:HA	2.19	0.42
1:Y:735:ILE:HD12	1:Z:726:ALA:HB3	2.02	0.42
1:Y:780:GLU:HG3	1:Y:783:LYS:NZ	2.35	0.42
1:Z:780:GLU:HG3	1:Z:783:LYS:NZ	2.35	0.42
1:a:688:LEU:HG	1:a:691:GLN:NE2	2.34	0.42
1:a:742:LEU:HB3	1:b:734:ARG:CZ	2.50	0.42
1:a:746:LEU:HD13	1:b:737:GLY:HA2	2.01	0.42
1:a:765:VAL:O	1:a:769:GLU:HG2	2.20	0.42
1:a:772:TYR:CE1	1:b:770:LEU:HB3	2.55	0.42
1:b:606:PHE:O	1:b:622:ALA:HA	2.19	0.42
1:b:688:LEU:HG	1:b:691:GLN:NE2	2.34	0.42
1:b:753:ILE:HA	1:b:756:GLU:HG3	2.02	0.42
1:c:179:ARG:NH2	1:c:210:GLU:O	2.52	0.42
1:c:336:ALA:HB2	1:c:357:TRP:CZ3	2.54	0.42
1:e:335:LYS:HG3	1:e:374:VAL:HG21	2.02	0.42
1:f:564:VAL:HB	1:f:631:ASN:ND2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:724:ALA:HB1	1:g:715:ALA:HA	2.02	0.42
1:f:765:VAL:O	1:f:769:GLU:HG2	2.20	0.42
1:g:274:THR:HG23	1:g:320:ILE:HD11	2.00	0.42
1:g:531:THR:HG22	1:g:588:PHE:CE1	2.52	0.42
1:h:772:TYR:CE1	1:i:770:LEU:HB3	2.55	0.42
1:i:52:THR:HG22	1:i:96:PRO:HB3	2.01	0.42
1:i:389:TYR:CE2	1:i:457:VAL:HA	2.54	0.42
1:i:780:GLU:HG3	1:i:783:LYS:NZ	2.35	0.42
1:j:37:ARG:HH11	1:j:43:VAL:H	1.67	0.42
1:j:250:LEU:HD11	1:j:310:LEU:O	2.19	0.42
1:j:282:CYS:HB2	1:j:316:LEU:HD12	2.00	0.42
1:j:761:ARG:HH12	1:k:752:ALA:CA	2.32	0.42
1:k:10:ILE:HB	1:k:33:LYS:O	2.19	0.42
1:k:738:GLU:O	1:l:734:ARG:NH2	2.53	0.42
1:k:772:TYR:CE1	1:l:770:LEU:HB3	2.55	0.42
1:m:773:ALA:HA	1:m:776:GLN:HG2	2.02	0.42
1:m:780:GLU:HG3	1:m:783:LYS:NZ	2.35	0.42
1:A:335:LYS:HG3	1:A:374:VAL:HG21	2.02	0.42
1:B:169:LYS:HD2	1:B:170:GLN:O	2.19	0.42
1:B:780:GLU:HG3	1:B:783:LYS:NZ	2.35	0.42
1:C:593:LYS:HA	1:C:593:LYS:HD2	1.91	0.42
1:C:735:ILE:HD12	1:D:726:ALA:HB3	2.02	0.42
1:C:746:LEU:HD13	1:D:737:GLY:HA2	2.01	0.42
1:C:770:LEU:HD12	1:C:771:ILE:N	2.35	0.42
1:D:10:ILE:HB	1:D:33:LYS:O	2.19	0.42
1:D:274:THR:HG23	1:D:320:ILE:HD11	2.00	0.42
1:D:737:GLY:O	1:D:740:SER:OG	2.28	0.42
1:D:780:GLU:HG3	1:D:783:LYS:NZ	2.35	0.42
1:E:37:ARG:HH11	1:E:43:VAL:H	1.67	0.42
1:E:725:GLU:O	1:E:728:SER:OG	2.37	0.42
1:E:772:TYR:CE1	1:F:770:LEU:HB3	2.55	0.42
1:F:743:GLN:HA	1:F:746:LEU:HG	2.00	0.42
1:G:20:ASP:HB3	1:G:23:SER:HB3	2.02	0.42
1:G:335:LYS:HG3	1:G:374:VAL:HG21	2.02	0.42
1:G:742:LEU:HB3	1:H:734:ARG:CZ	2.50	0.42
1:G:765:VAL:O	1:G:769:GLU:HG2	2.20	0.42
1:H:315:ARG:HD3	1:H:316:LEU:O	2.20	0.42
1:H:593:LYS:HA	1:H:593:LYS:HD2	1.91	0.42
1:I:250:LEU:HD11	1:I:310:LEU:O	2.19	0.42
1:I:543:TYR:CE1	1:I:572:CYS:HA	2.54	0.42
1:J:595:SER:O	1:J:599:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:765:VAL:O	1:J:768:MET:HG3	2.20	0.42
1:L:195:GLU:O	1:L:263:VAL:HG21	2.20	0.42
1:L:704:LYS:HD2	1:L:704:LYS:HA	1.89	0.42
1:N:765:VAL:O	1:N:768:MET:HG3	2.19	0.42
1:N:772:TYR:CE1	1:O:770:LEU:HB3	2.55	0.42
1:O:761:ARG:HH12	1:P:752:ALA:CA	2.32	0.42
1:P:68:ASP:HB3	1:P:74:LEU:HD11	2.01	0.42
1:P:780:GLU:HG3	1:P:783:LYS:HZ1	1.85	0.42
1:Q:688:LEU:HG	1:Q:691:GLN:NE2	2.34	0.42
1:R:780:GLU:HG3	1:R:783:LYS:NZ	2.35	0.42
1:S:10:ILE:HB	1:S:33:LYS:O	2.19	0.42
1:S:527:ILE:HD12	1:S:576:ALA:HB1	2.01	0.42
1:S:772:TYR:CE1	1:T:770:LEU:HB3	2.55	0.42
1:S:773:ALA:HA	1:S:776:GLN:HG2	2.02	0.42
1:T:724:ALA:HB1	1:U:715:ALA:HA	2.02	0.42
1:U:282:CYS:HB2	1:U:316:LEU:HD12	2.01	0.42
1:U:564:VAL:HB	1:U:631:ASN:ND2	2.33	0.42
1:U:595:SER:O	1:U:599:ILE:HG12	2.19	0.42
1:U:753:ILE:HA	1:U:756:GLU:HG3	2.02	0.42
1:V:738:GLU:O	1:W:734:ARG:NH2	2.53	0.42
1:W:389:TYR:CE2	1:W:457:VAL:HA	2.54	0.42
1:W:780:GLU:HG3	1:W:783:LYS:NZ	2.35	0.42
1:Y:20:ASP:HB3	1:Y:23:SER:HB3	2.02	0.42
1:Z:68:ASP:HB3	1:Z:74:LEU:HD11	2.01	0.42
1:Z:724:ALA:HB1	1:a:715:ALA:HA	2.02	0.42
1:Z:772:TYR:CE1	1:a:770:LEU:HB3	2.55	0.42
1:a:595:SER:O	1:a:599:ILE:HG12	2.19	0.42
1:a:663:GLU:O	1:a:666:THR:OG1	2.26	0.42
1:a:797:GLU:CD	1:b:792:ALA:HB1	2.44	0.42
1:b:742:LEU:HB3	1:c:734:ARG:CZ	2.50	0.42
1:c:742:LEU:HB3	1:d:734:ARG:CZ	2.50	0.42
1:c:797:GLU:CD	1:d:792:ALA:HB1	2.44	0.42
1:d:761:ARG:HH12	1:e:752:ALA:CA	2.33	0.42
1:e:10:ILE:HB	1:e:33:LYS:O	2.19	0.42
1:e:724:ALA:HB1	1:f:715:ALA:HA	2.02	0.42
1:g:179:ARG:NH2	1:g:210:GLU:O	2.52	0.42
1:g:724:ALA:HB1	1:h:715:ALA:HA	2.02	0.42
1:g:765:VAL:O	1:g:768:MET:HG3	2.19	0.42
1:g:770:LEU:HD12	1:g:771:ILE:N	2.35	0.42
1:h:274:THR:HG23	1:h:320:ILE:HD11	2.00	0.42
1:h:543:TYR:CE1	1:h:572:CYS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:742:LEU:HB3	1:i:734:ARG:CZ	2.50	0.42
1:i:274:THR:HG23	1:i:320:ILE:HD11	2.00	0.42
1:j:772:TYR:CE1	1:k:770:LEU:HB3	2.55	0.42
1:l:761:ARG:HH12	1:m:752:ALA:CA	2.32	0.42
1:m:704:LYS:HA	1:m:704:LYS:HD2	1.89	0.42
1:B:663:GLU:O	1:B:666:THR:OG1	2.26	0.42
1:B:765:VAL:O	1:B:768:MET:HG3	2.19	0.42
1:C:20:ASP:HB3	1:C:23:SER:HB3	2.02	0.42
1:C:595:SER:O	1:C:599:ILE:HG12	2.19	0.42
1:C:742:LEU:HB3	1:D:734:ARG:CZ	2.50	0.42
1:C:773:ALA:HA	1:C:776:GLN:HG2	2.02	0.42
1:D:195:GLU:O	1:D:263:VAL:HG21	2.20	0.42
1:F:315:ARG:HD3	1:F:316:LEU:O	2.20	0.42
1:G:688:LEU:HG	1:G:691:GLN:NE2	2.34	0.42
1:G:714:MET:HA	1:G:717:GLU:OE1	2.20	0.42
1:G:772:TYR:CE1	1:H:770:LEU:HB3	2.55	0.42
1:G:780:GLU:HG3	1:G:783:LYS:NZ	2.35	0.42
1:H:195:GLU:O	1:H:263:VAL:HG21	2.20	0.42
1:H:335:LYS:HG3	1:H:374:VAL:HG21	2.02	0.42
1:I:335:LYS:HG3	1:I:374:VAL:HG21	2.02	0.42
1:I:663:GLU:O	1:I:666:THR:OG1	2.26	0.42
1:I:688:LEU:HG	1:I:691:GLN:NE2	2.34	0.42
1:J:692:LYS:O	1:J:696:GLN:HG2	2.19	0.42
1:K:315:ARG:HD3	1:K:316:LEU:O	2.20	0.42
1:K:597:ARG:NH2	1:L:585:SER:HB3	2.32	0.42
1:L:761:ARG:HH12	1:M:752:ALA:CA	2.32	0.42
1:M:315:ARG:HD3	1:M:316:LEU:O	2.20	0.42
1:M:594:ASN:OD1	1:M:597:ARG:NE	2.46	0.42
1:M:688:LEU:HG	1:M:691:GLN:NE2	2.34	0.42
1:M:714:MET:HA	1:M:717:GLU:OE1	2.20	0.42
1:M:780:GLU:HG3	1:M:783:LYS:NZ	2.35	0.42
1:N:527:ILE:HD12	1:N:576:ALA:HB1	2.01	0.42
1:O:20:ASP:HB3	1:O:23:SER:HB3	2.02	0.42
1:O:724:ALA:HB1	1:P:715:ALA:HA	2.02	0.42
1:O:735:ILE:HD12	1:P:726:ALA:HB3	2.02	0.42
1:P:724:ALA:HB1	1:Q:715:ALA:HA	2.02	0.42
1:P:779:LEU:HD13	1:Q:774:ARG:HE	1.82	0.42
1:Q:20:ASP:HB3	1:Q:23:SER:HB3	2.02	0.42
1:Q:746:LEU:HD13	1:R:737:GLY:HA2	2.01	0.42
1:R:195:GLU:O	1:R:263:VAL:HG21	2.20	0.42
1:R:315:ARG:HD3	1:R:316:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:765:VAL:O	1:R:768:MET:HG3	2.19	0.42
1:T:250:LEU:HD11	1:T:310:LEU:O	2.19	0.42
1:T:773:ALA:HA	1:T:776:GLN:HG2	2.02	0.42
1:U:37:ARG:HH11	1:U:43:VAL:H	1.67	0.42
1:U:336:ALA:HB2	1:U:357:TRP:CZ3	2.54	0.42
1:U:742:LEU:HB3	1:V:734:ARG:CZ	2.50	0.42
1:U:765:VAL:O	1:U:769:GLU:HG2	2.20	0.42
1:W:282:CYS:HB2	1:W:316:LEU:HD12	2.01	0.42
1:W:746:LEU:HD13	1:X:737:GLY:HA2	2.01	0.42
1:W:773:ALA:HA	1:W:776:GLN:HG2	2.02	0.42
1:X:315:ARG:HD3	1:X:316:LEU:O	2.20	0.42
1:X:772:TYR:CE1	1:Y:770:LEU:HB3	2.55	0.42
1:Y:68:ASP:HB3	1:Y:74:LEU:HD11	2.01	0.42
1:Y:753:ILE:HA	1:Y:756:GLU:HG3	2.02	0.42
1:Z:52:THR:HG22	1:Z:96:PRO:HB3	2.01	0.42
1:Z:746:LEU:HD13	1:a:737:GLY:HA2	2.01	0.42
1:a:68:ASP:HB3	1:a:74:LEU:HD11	2.01	0.42
1:a:315:ARG:HD3	1:a:316:LEU:O	2.20	0.42
1:a:335:LYS:HG3	1:a:374:VAL:HG21	2.02	0.42
1:b:724:ALA:HB1	1:c:715:ALA:HA	2.02	0.42
1:c:315:ARG:HD3	1:c:316:LEU:O	2.20	0.42
1:c:753:ILE:HA	1:c:756:GLU:HG3	2.02	0.42
1:d:735:ILE:HD12	1:e:726:ALA:HB3	2.02	0.42
1:f:52:THR:HG22	1:f:96:PRO:HB3	2.01	0.42
1:f:688:LEU:HG	1:f:691:GLN:NE2	2.34	0.42
1:f:753:ILE:HA	1:f:756:GLU:HG3	2.02	0.42
1:f:773:ALA:HA	1:f:776:GLN:HG2	2.02	0.42
1:i:735:ILE:HD12	1:j:726:ALA:HB3	2.02	0.42
1:j:595:SER:O	1:j:599:ILE:HG12	2.19	0.42
1:j:770:LEU:HD12	1:j:771:ILE:N	2.35	0.42
1:j:780:GLU:HG3	1:j:783:LYS:NZ	2.35	0.42
1:l:10:ILE:HB	1:l:33:LYS:O	2.19	0.42
1:l:52:THR:HG22	1:l:96:PRO:HB3	2.01	0.42
1:l:250:LEU:HD11	1:l:310:LEU:O	2.19	0.42
1:l:773:ALA:HA	1:l:776:GLN:HG2	2.02	0.42
1:l:797:GLU:CD	1:m:792:ALA:HB1	2.44	0.42
1:m:753:ILE:HA	1:m:756:GLU:HG3	2.02	0.42
1:A:770:LEU:HB3	1:m:772:TYR:CE1	2.55	0.41
1:A:772:TYR:CE1	1:B:770:LEU:HB3	2.55	0.41
1:C:592:HIS:NE2	1:D:531:THR:O	2.50	0.41
1:D:765:VAL:O	1:D:768:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:543:TYR:CE1	1:E:572:CYS:HA	2.54	0.41
1:E:753:ILE:HA	1:E:756:GLU:HG3	2.02	0.41
1:E:765:VAL:O	1:E:768:MET:HG3	2.19	0.41
1:F:772:TYR:CE1	1:G:770:LEU:HB3	2.55	0.41
1:F:773:ALA:HA	1:F:776:GLN:HG2	2.02	0.41
1:H:68:ASP:HB3	1:H:74:LEU:HD11	2.01	0.41
1:H:780:GLU:HG3	1:H:783:LYS:NZ	2.35	0.41
1:I:650:THR:O	1:I:654:LEU:HG	2.20	0.41
1:J:773:ALA:HA	1:J:776:GLN:HG2	2.02	0.41
1:K:780:GLU:HG3	1:K:783:LYS:NZ	2.35	0.41
1:M:742:LEU:HB3	1:N:734:ARG:CZ	2.50	0.41
1:N:335:LYS:HG3	1:N:374:VAL:HG21	2.02	0.41
1:O:714:MET:HA	1:O:717:GLU:OE1	2.20	0.41
1:P:765:VAL:O	1:P:769:GLU:HG2	2.20	0.41
1:P:772:TYR:CE1	1:Q:770:LEU:HB3	2.55	0.41
1:R:735:ILE:HD12	1:S:726:ALA:HB3	2.02	0.41
1:R:779:LEU:HD13	1:S:774:ARG:HE	1.82	0.41
1:S:315:ARG:HD3	1:S:316:LEU:O	2.20	0.41
1:S:502:ALA:HB3	1:S:510:ALA:HB3	2.02	0.41
1:S:714:MET:HA	1:S:717:GLU:OE1	2.20	0.41
1:S:738:GLU:O	1:T:734:ARG:NH2	2.53	0.41
1:T:761:ARG:HH12	1:U:752:ALA:CA	2.32	0.41
1:T:770:LEU:HD12	1:T:771:ILE:N	2.35	0.41
1:V:592:HIS:NE2	1:W:531:THR:O	2.50	0.41
1:W:738:GLU:O	1:X:734:ARG:NH2	2.53	0.41
1:W:765:VAL:O	1:W:769:GLU:HG2	2.20	0.41
1:W:772:TYR:CE1	1:X:770:LEU:HB3	2.55	0.41
1:X:543:TYR:CE1	1:X:572:CYS:HA	2.54	0.41
1:Y:770:LEU:HD12	1:Y:771:ILE:N	2.35	0.41
1:Z:195:GLU:O	1:Z:263:VAL:HG21	2.20	0.41
1:Z:336:ALA:HB2	1:Z:357:TRP:CZ3	2.54	0.41
1:Z:738:GLU:O	1:a:734:ARG:NH2	2.53	0.41
1:a:502:ALA:HB3	1:a:510:ALA:HB3	2.02	0.41
1:b:714:MET:HA	1:b:717:GLU:OE1	2.20	0.41
1:b:770:LEU:HD12	1:b:771:ILE:N	2.35	0.41
1:c:595:SER:O	1:c:599:ILE:HG12	2.19	0.41
1:c:780:GLU:HG3	1:c:783:LYS:NZ	2.35	0.41
1:f:56:ARG:NH2	1:g:156:GLU:HA	2.32	0.41
1:f:761:ARG:HH12	1:g:752:ALA:CA	2.32	0.41
1:g:52:THR:HG22	1:g:96:PRO:HB3	2.01	0.41
1:i:20:ASP:HB3	1:i:23:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:543:TYR:CE1	1:i:572:CYS:HA	2.54	0.41
1:j:338:GLN:HB3	1:j:370:LYS:HZ1	1.85	0.41
1:k:543:TYR:CE1	1:k:572:CYS:HA	2.54	0.41
1:k:735:ILE:HD12	1:l:726:ALA:HB3	2.02	0.41
1:l:688:LEU:HG	1:l:691:GLN:NE2	2.34	0.41
1:m:770:LEU:HD12	1:m:771:ILE:N	2.35	0.41
1:A:688:LEU:HG	1:A:691:GLN:NE2	2.34	0.41
1:C:336:ALA:HB2	1:C:357:TRP:CZ3	2.54	0.41
1:C:650:THR:O	1:C:654:LEU:HG	2.20	0.41
1:C:688:LEU:HG	1:C:691:GLN:NE2	2.34	0.41
1:C:772:TYR:CE1	1:D:770:LEU:HB3	2.55	0.41
1:D:37:ARG:HH11	1:D:43:VAL:H	1.67	0.41
1:D:754:GLU:OE2	1:E:744:ALA:HB2	2.21	0.41
1:D:765:VAL:O	1:D:769:GLU:HG2	2.20	0.41
1:E:20:ASP:HB3	1:E:23:SER:HB3	2.02	0.41
1:E:765:VAL:O	1:E:769:GLU:HG2	2.20	0.41
1:F:663:GLU:O	1:F:666:THR:OG1	2.26	0.41
1:F:742:LEU:HB3	1:G:734:ARG:CZ	2.50	0.41
1:F:746:LEU:HD13	1:G:737:GLY:HA2	2.01	0.41
1:G:502:ALA:HB3	1:G:510:ALA:HB3	2.02	0.41
1:G:595:SER:O	1:G:599:ILE:HG12	2.19	0.41
1:H:527:ILE:HD12	1:H:576:ALA:HB1	2.01	0.41
1:I:735:ILE:HD12	1:J:726:ALA:HB3	2.02	0.41
1:I:772:TYR:CE1	1:J:770:LEU:HB3	2.55	0.41
1:J:714:MET:HA	1:J:717:GLU:OE1	2.20	0.41
1:J:738:GLU:O	1:K:734:ARG:NH2	2.53	0.41
1:J:772:TYR:CE1	1:K:770:LEU:HB3	2.55	0.41
1:J:780:GLU:HG3	1:J:783:LYS:NZ	2.35	0.41
1:J:797:GLU:CD	1:K:792:ALA:HB1	2.44	0.41
1:K:502:ALA:HB3	1:K:510:ALA:HB3	2.03	0.41
1:L:592:HIS:NE2	1:M:531:THR:O	2.50	0.41
1:L:765:VAL:O	1:L:769:GLU:HG2	2.20	0.41
1:M:543:TYR:CE1	1:M:572:CYS:HA	2.54	0.41
1:O:37:ARG:HH11	1:O:43:VAL:H	1.67	0.41
1:O:195:GLU:O	1:O:263:VAL:HG21	2.20	0.41
1:P:315:ARG:HD3	1:P:316:LEU:O	2.20	0.41
1:P:738:GLU:O	1:Q:734:ARG:NH2	2.53	0.41
1:Q:765:VAL:O	1:Q:769:GLU:HG2	2.20	0.41
1:R:250:LEU:HD11	1:R:310:LEU:O	2.19	0.41
1:S:195:GLU:O	1:S:263:VAL:HG21	2.20	0.41
1:T:335:LYS:HG3	1:T:374:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:772:TYR:CE1	1:U:770:LEU:HB3	2.55	0.41
1:U:650:THR:O	1:U:654:LEU:HG	2.21	0.41
1:V:335:LYS:HG3	1:V:374:VAL:HG21	2.02	0.41
1:V:336:ALA:HB2	1:V:357:TRP:CZ3	2.54	0.41
1:V:773:ALA:HA	1:V:776:GLN:HG2	2.02	0.41
1:W:387:GLY:HA3	1:W:401:VAL:O	2.21	0.41
1:W:754:GLU:OE2	1:X:744:ALA:HB2	2.21	0.41
1:X:20:ASP:HB3	1:X:23:SER:HB3	2.02	0.41
1:X:37:ARG:HH11	1:X:43:VAL:H	1.67	0.41
1:X:195:GLU:O	1:X:263:VAL:HG21	2.20	0.41
1:X:714:MET:HA	1:X:717:GLU:OE1	2.20	0.41
1:X:738:GLU:O	1:Y:734:ARG:NH2	2.53	0.41
1:Y:315:ARG:HD3	1:Y:316:LEU:O	2.20	0.41
1:Z:650:THR:O	1:Z:654:LEU:HG	2.20	0.41
1:Z:725:GLU:O	1:Z:728:SER:OG	2.37	0.41
1:Z:742:LEU:HB3	1:a:734:ARG:CZ	2.50	0.41
1:a:527:ILE:HD12	1:a:576:ALA:HB1	2.01	0.41
1:a:597:ARG:NH2	1:b:585:SER:HB3	2.32	0.41
1:b:68:ASP:HB3	1:b:74:LEU:HD11	2.01	0.41
1:b:543:TYR:CE1	1:b:572:CYS:HA	2.54	0.41
1:c:383:ASP:OD1	1:d:391:GLN:NE2	2.50	0.41
1:d:52:THR:HG22	1:d:96:PRO:HB3	2.01	0.41
1:d:315:ARG:HD3	1:d:316:LEU:O	2.20	0.41
1:d:773:ALA:HA	1:d:776:GLN:HG2	2.02	0.41
1:e:387:GLY:HA3	1:e:401:VAL:O	2.21	0.41
1:e:650:THR:O	1:e:654:LEU:HG	2.21	0.41
1:e:770:LEU:HD12	1:e:771:ILE:N	2.35	0.41
1:f:20:ASP:HB3	1:f:23:SER:HB3	2.02	0.41
1:g:746:LEU:HD13	1:h:737:GLY:HA2	2.01	0.41
1:g:780:GLU:HG3	1:g:783:LYS:NZ	2.35	0.41
1:h:765:VAL:O	1:h:768:MET:HG3	2.20	0.41
1:i:37:ARG:HH11	1:i:43:VAL:H	1.67	0.41
1:j:315:ARG:HD3	1:j:316:LEU:O	2.20	0.41
1:k:20:ASP:HB3	1:k:23:SER:HB3	2.02	0.41
1:k:56:ARG:NH2	1:l:156:GLU:HA	2.32	0.41
1:l:315:ARG:HD3	1:l:316:LEU:O	2.20	0.41
1:l:725:GLU:O	1:l:728:SER:OG	2.37	0.41
1:l:759:LEU:HA	1:l:759:LEU:HD23	1.90	0.41
1:A:343:GLY:O	1:A:344:GLU:HG2	2.21	0.41
1:A:742:LEU:HB3	1:B:734:ARG:CZ	2.50	0.41
1:A:765:VAL:O	1:A:768:MET:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:336:ALA:HB2	1:B:357:TRP:CZ3	2.54	0.41
1:B:606:PHE:O	1:B:622:ALA:HA	2.19	0.41
1:B:650:THR:O	1:B:654:LEU:HG	2.21	0.41
1:B:753:ILE:HA	1:B:756:GLU:HG3	2.02	0.41
1:B:772:TYR:CE1	1:C:770:LEU:HB3	2.55	0.41
1:C:237:ASP:OD1	1:C:241:VAL:N	2.44	0.41
1:C:714:MET:HA	1:C:717:GLU:OE1	2.20	0.41
1:D:714:MET:HA	1:D:717:GLU:OE1	2.20	0.41
1:E:780:GLU:HG3	1:E:783:LYS:NZ	2.35	0.41
1:F:502:ALA:HB3	1:F:510:ALA:HB3	2.02	0.41
1:F:704:LYS:HA	1:F:704:LYS:HD2	1.88	0.41
1:H:343:GLY:O	1:H:344:GLU:HG2	2.21	0.41
1:H:754:GLU:OE2	1:I:744:ALA:HB2	2.21	0.41
1:I:10:ILE:HB	1:I:33:LYS:O	2.19	0.41
1:I:773:ALA:HA	1:I:776:GLN:HG2	2.02	0.41
1:J:688:LEU:HG	1:J:691:GLN:NE2	2.34	0.41
1:K:10:ILE:HB	1:K:33:LYS:O	2.19	0.41
1:K:343:GLY:O	1:K:344:GLU:HG2	2.21	0.41
1:K:387:GLY:HA3	1:K:401:VAL:O	2.21	0.41
1:K:765:VAL:O	1:K:768:MET:HG3	2.19	0.41
1:M:195:GLU:O	1:M:263:VAL:HG21	2.20	0.41
1:M:650:THR:O	1:M:654:LEU:HG	2.20	0.41
1:M:773:ALA:HA	1:M:776:GLN:HG2	2.02	0.41
1:O:315:ARG:HD3	1:O:316:LEU:O	2.20	0.41
1:O:502:ALA:HB3	1:O:510:ALA:HB3	2.02	0.41
1:O:754:GLU:OE2	1:P:744:ALA:HB2	2.21	0.41
1:O:765:VAL:O	1:O:769:GLU:HG2	2.20	0.41
1:P:453:ASN:OD1	1:P:455:THR:OG1	2.24	0.41
1:Q:343:GLY:O	1:Q:344:GLU:HG2	2.21	0.41
1:R:502:ALA:HB3	1:R:510:ALA:HB3	2.02	0.41
1:R:714:MET:HA	1:R:717:GLU:OE1	2.20	0.41
1:S:704:LYS:HD2	1:S:704:LYS:HA	1.88	0.41
1:T:387:GLY:HA3	1:T:401:VAL:O	2.21	0.41
1:T:735:ILE:HD12	1:U:726:ALA:HB3	2.02	0.41
1:U:543:TYR:CE1	1:U:572:CYS:HA	2.54	0.41
1:V:315:ARG:HD3	1:V:316:LEU:O	2.20	0.41
1:V:688:LEU:HG	1:V:691:GLN:NE2	2.34	0.41
1:V:742:LEU:HB3	1:W:734:ARG:CZ	2.50	0.41
1:V:772:TYR:CE1	1:W:770:LEU:HB3	2.55	0.41
1:W:761:ARG:HH12	1:X:752:ALA:HA	1.86	0.41
1:X:335:LYS:HG3	1:X:374:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:593:LYS:HA	1:X:593:LYS:HD2	1.91	0.41
1:X:735:ILE:HD12	1:Y:726:ALA:HB3	2.02	0.41
1:X:754:GLU:OE2	1:Y:744:ALA:HB2	2.21	0.41
1:Y:37:ARG:HH11	1:Y:43:VAL:H	1.67	0.41
1:Y:52:THR:HG22	1:Y:96:PRO:HB3	2.01	0.41
1:Y:336:ALA:HB2	1:Y:357:TRP:CZ3	2.54	0.41
1:Y:650:THR:O	1:Y:654:LEU:HG	2.21	0.41
1:Y:773:ALA:HA	1:Y:776:GLN:HG2	2.02	0.41
1:Z:485:GLU:OE2	1:a:471:TYR:OH	2.38	0.41
1:a:10:ILE:HB	1:a:33:LYS:O	2.19	0.41
1:c:282:CYS:HB2	1:c:316:LEU:HD12	2.00	0.41
1:c:714:MET:HA	1:c:717:GLU:OE1	2.20	0.41
1:d:250:LEU:HD11	1:d:310:LEU:O	2.19	0.41
1:d:650:THR:O	1:d:654:LEU:HG	2.21	0.41
1:e:20:ASP:HB3	1:e:23:SER:HB3	2.02	0.41
1:e:315:ARG:HD3	1:e:316:LEU:O	2.20	0.41
1:e:502:ALA:HB3	1:e:510:ALA:HB3	2.02	0.41
1:f:387:GLY:HA3	1:f:401:VAL:O	2.21	0.41
1:f:742:LEU:HB3	1:g:734:ARG:CZ	2.50	0.41
1:f:765:VAL:O	1:f:768:MET:HG3	2.19	0.41
1:h:68:ASP:HB3	1:h:74:LEU:HD11	2.01	0.41
1:h:237:ASP:OD1	1:h:241:VAL:N	2.44	0.41
1:h:754:GLU:OE2	1:i:744:ALA:HB2	2.21	0.41
1:h:765:VAL:O	1:h:769:GLU:HG2	2.20	0.41
1:h:780:GLU:HG3	1:h:783:LYS:NZ	2.35	0.41
1:i:688:LEU:HG	1:i:691:GLN:NE2	2.34	0.41
1:i:724:ALA:HB1	1:j:715:ALA:HA	2.02	0.41
1:i:738:GLU:O	1:j:734:ARG:NH2	2.53	0.41
1:i:765:VAL:O	1:i:769:GLU:HG2	2.20	0.41
1:j:765:VAL:O	1:j:769:GLU:HG2	2.20	0.41
1:k:650:THR:O	1:k:654:LEU:HG	2.20	0.41
1:l:335:LYS:HG3	1:l:374:VAL:HG21	2.02	0.41
1:l:336:ALA:HB2	1:l:357:TRP:CZ3	2.54	0.41
1:l:761:ARG:HH12	1:m:752:ALA:HA	1.86	0.41
1:m:502:ALA:HB3	1:m:510:ALA:HB3	2.03	0.41
1:A:527:ILE:HD12	1:A:576:ALA:HB1	2.01	0.41
1:B:68:ASP:HB3	1:B:74:LEU:HD11	2.01	0.41
1:C:754:GLU:OE2	1:D:744:ALA:HB2	2.21	0.41
1:D:315:ARG:HD3	1:D:316:LEU:O	2.20	0.41
1:D:742:LEU:HB3	1:E:734:ARG:CZ	2.50	0.41
1:F:765:VAL:O	1:F:769:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:773:ALA:HA	1:G:776:GLN:HG2	2.02	0.41
1:H:37:ARG:HH11	1:H:43:VAL:H	1.67	0.41
1:H:56:ARG:NH2	1:I:156:GLU:HA	2.32	0.41
1:H:714:MET:HA	1:H:717:GLU:OE1	2.20	0.41
1:H:773:ALA:HA	1:H:776:GLN:HG2	2.02	0.41
1:I:724:ALA:HB1	1:J:715:ALA:HA	2.02	0.41
1:I:765:VAL:O	1:I:769:GLU:HG2	2.20	0.41
1:K:650:THR:O	1:K:654:LEU:HG	2.21	0.41
1:K:725:GLU:O	1:K:728:SER:OG	2.37	0.41
1:K:772:TYR:CE1	1:L:770:LEU:HB3	2.55	0.41
1:L:754:GLU:OE2	1:M:744:ALA:HB2	2.21	0.41
1:L:780:GLU:HG3	1:L:783:LYS:NZ	2.35	0.41
1:N:37:ARG:HH11	1:N:43:VAL:H	1.67	0.41
1:N:52:THR:HG22	1:N:96:PRO:HB3	2.01	0.41
1:N:502:ALA:HB3	1:N:510:ALA:HB3	2.02	0.41
1:N:688:LEU:HG	1:N:691:GLN:NE2	2.34	0.41
1:N:725:GLU:O	1:N:728:SER:OG	2.38	0.41
1:N:753:ILE:HA	1:N:756:GLU:HG3	2.02	0.41
1:N:754:GLU:OE2	1:O:744:ALA:HB2	2.21	0.41
1:N:765:VAL:O	1:N:769:GLU:HG2	2.20	0.41
1:O:387:GLY:HA3	1:O:401:VAL:O	2.21	0.41
1:O:753:ILE:HA	1:O:756:GLU:HG3	2.02	0.41
1:P:195:GLU:O	1:P:263:VAL:HG21	2.20	0.41
1:P:335:LYS:HG3	1:P:374:VAL:HG21	2.02	0.41
1:Q:770:LEU:HD12	1:Q:771:ILE:N	2.34	0.41
1:Q:772:TYR:CE1	1:R:770:LEU:HB3	2.55	0.41
1:Q:780:GLU:HG3	1:Q:783:LYS:NZ	2.35	0.41
1:R:761:ARG:HH12	1:S:752:ALA:CA	2.33	0.41
1:S:387:GLY:HA3	1:S:401:VAL:O	2.21	0.41
1:S:742:LEU:HB3	1:T:734:ARG:CZ	2.50	0.41
1:T:742:LEU:HB3	1:U:734:ARG:CZ	2.50	0.41
1:T:753:ILE:HA	1:T:756:GLU:HG3	2.02	0.41
1:T:754:GLU:OE2	1:U:744:ALA:HB2	2.21	0.41
1:U:343:GLY:O	1:U:344:GLU:HG2	2.21	0.41
1:U:780:GLU:HG3	1:U:783:LYS:NZ	2.35	0.41
1:V:195:GLU:O	1:V:263:VAL:HG21	2.20	0.41
1:V:650:THR:O	1:V:654:LEU:HG	2.20	0.41
1:V:754:GLU:OE2	1:W:744:ALA:HB2	2.21	0.41
1:V:765:VAL:O	1:V:768:MET:HG3	2.20	0.41
1:W:20:ASP:HB3	1:W:23:SER:HB3	2.02	0.41
1:X:742:LEU:HB3	1:Y:734:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:753:ILE:HA	1:Z:756:GLU:HG3	2.02	0.41
1:b:343:GLY:O	1:b:344:GLU:HG2	2.21	0.41
1:b:772:TYR:CE1	1:c:770:LEU:HB3	2.55	0.41
1:c:20:ASP:HB3	1:c:23:SER:HB3	2.02	0.41
1:c:725:GLU:O	1:c:728:SER:OG	2.37	0.41
1:c:735:ILE:HD12	1:d:726:ALA:HB3	2.02	0.41
1:e:343:GLY:O	1:e:344:GLU:HG2	2.21	0.41
1:f:761:ARG:HH12	1:g:752:ALA:HA	1.86	0.41
1:g:343:GLY:O	1:g:344:GLU:HG2	2.21	0.41
1:g:597:ARG:NH2	1:h:585:SER:HB3	2.32	0.41
1:g:714:MET:HA	1:g:717:GLU:OE1	2.20	0.41
1:h:20:ASP:HB3	1:h:23:SER:HB3	2.02	0.41
1:h:650:THR:O	1:h:654:LEU:HG	2.21	0.41
1:h:773:ALA:HA	1:h:776:GLN:HG2	2.02	0.41
1:i:502:ALA:HB3	1:i:510:ALA:HB3	2.02	0.41
1:k:343:GLY:O	1:k:344:GLU:HG2	2.21	0.41
1:k:765:VAL:O	1:k:769:GLU:HG2	2.20	0.41
1:k:780:GLU:HG3	1:k:783:LYS:NZ	2.35	0.41
1:l:502:ALA:HB3	1:l:510:ALA:HB3	2.02	0.41
1:l:742:LEU:HB3	1:m:734:ARG:CZ	2.50	0.41
1:l:754:GLU:OE2	1:m:744:ALA:HB2	2.21	0.41
1:l:772:TYR:CE1	1:m:770:LEU:HB3	2.55	0.41
1:A:780:GLU:HG3	1:A:783:LYS:NZ	2.35	0.41
1:B:754:GLU:OE2	1:C:744:ALA:HB2	2.21	0.41
1:B:773:ALA:HA	1:B:776:GLN:HG2	2.02	0.41
1:C:303:LYS:HG2	1:C:304:GLY:H	1.86	0.41
1:C:315:ARG:HD3	1:C:316:LEU:O	2.20	0.41
1:D:343:GLY:O	1:D:344:GLU:HG2	2.21	0.41
1:D:650:THR:O	1:D:654:LEU:HG	2.21	0.41
1:D:770:LEU:HD12	1:D:771:ILE:N	2.35	0.41
1:E:83:LEU:HB2	1:E:85:HIS:CD2	2.56	0.41
1:E:195:GLU:O	1:E:263:VAL:HG21	2.20	0.41
1:E:343:GLY:O	1:E:344:GLU:HG2	2.21	0.41
1:E:724:ALA:HB1	1:F:715:ALA:HA	2.02	0.41
1:G:663:GLU:O	1:G:666:THR:OG1	2.26	0.41
1:H:228:HIS:CE1	1:H:268:LEU:HD22	2.56	0.41
1:H:502:ALA:HB3	1:H:510:ALA:HB3	2.02	0.41
1:H:753:ILE:HA	1:H:756:GLU:HG3	2.02	0.41
1:H:772:TYR:CE1	1:I:770:LEU:HB3	2.55	0.41
1:I:37:ARG:HH11	1:I:43:VAL:H	1.67	0.41
1:I:195:GLU:O	1:I:263:VAL:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:195:GLU:O	1:J:263:VAL:HG21	2.20	0.41
1:J:742:LEU:HB3	1:K:734:ARG:CZ	2.50	0.41
1:K:735:ILE:HD12	1:L:726:ALA:HB3	2.02	0.41
1:K:754:GLU:OE2	1:L:744:ALA:HB2	2.21	0.41
1:L:343:GLY:O	1:L:344:GLU:HG2	2.21	0.41
1:L:387:GLY:HA3	1:L:401:VAL:O	2.21	0.41
1:L:714:MET:HA	1:L:717:GLU:OE1	2.20	0.41
1:L:772:TYR:CE1	1:M:770:LEU:HB3	2.55	0.41
1:M:303:LYS:HG2	1:M:304:GLY:H	1.86	0.41
1:M:724:ALA:HB1	1:N:715:ALA:HA	2.02	0.41
1:N:387:GLY:HA3	1:N:401:VAL:O	2.21	0.41
1:N:746:LEU:HD13	1:O:737:GLY:HA2	2.01	0.41
1:O:710:GLU:O	1:O:713:SER:HB2	2.21	0.41
1:P:734:ARG:HA	1:P:734:ARG:HD3	1.73	0.41
1:P:753:ILE:HA	1:P:756:GLU:HG3	2.02	0.41
1:Q:37:ARG:HH11	1:Q:43:VAL:H	1.67	0.41
1:Q:738:GLU:O	1:R:734:ARG:NH2	2.53	0.41
1:S:52:THR:HG22	1:S:96:PRO:HB3	2.01	0.41
1:S:303:LYS:HG2	1:S:304:GLY:H	1.86	0.41
1:T:621:LYS:HD2	1:T:621:LYS:HA	1.94	0.41
1:T:650:THR:O	1:T:654:LEU:HG	2.21	0.41
1:T:780:GLU:HG3	1:T:783:LYS:NZ	2.35	0.41
1:U:228:HIS:CE1	1:U:268:LEU:HD22	2.56	0.41
1:U:714:MET:HA	1:U:717:GLU:OE1	2.20	0.41
1:W:10:ILE:HB	1:W:33:LYS:O	2.19	0.41
1:W:195:GLU:O	1:W:263:VAL:HG21	2.20	0.41
1:W:765:VAL:O	1:W:768:MET:HG3	2.20	0.41
1:X:10:ILE:HB	1:X:33:LYS:O	2.19	0.41
1:X:56:ARG:NH2	1:Y:156:GLU:HA	2.32	0.41
1:X:343:GLY:O	1:X:344:GLU:HG2	2.21	0.41
1:X:387:GLY:HA3	1:X:401:VAL:O	2.21	0.41
1:X:650:THR:O	1:X:654:LEU:HG	2.21	0.41
1:Y:83:LEU:HB2	1:Y:85:HIS:CD2	2.56	0.41
1:Y:303:LYS:HG2	1:Y:304:GLY:H	1.86	0.41
1:Y:502:ALA:HB3	1:Y:510:ALA:HB3	2.02	0.41
1:Y:765:VAL:O	1:Y:769:GLU:HG2	2.20	0.41
1:Z:765:VAL:O	1:Z:769:GLU:HG2	2.20	0.41
1:a:20:ASP:HB3	1:a:23:SER:HB3	2.02	0.41
1:a:343:GLY:O	1:a:344:GLU:HG2	2.21	0.41
1:b:195:GLU:O	1:b:263:VAL:HG21	2.20	0.41
1:c:83:LEU:HB2	1:c:85:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:387:GLY:HA3	1:d:401:VAL:O	2.21	0.41
1:e:52:THR:HG22	1:e:96:PRO:HB3	2.01	0.41
1:e:714:MET:HA	1:e:717:GLU:OE1	2.20	0.41
1:f:282:CYS:HB2	1:f:316:LEU:HD12	2.01	0.41
1:f:735:ILE:HD12	1:g:726:ALA:HB3	2.02	0.41
1:g:83:LEU:HB2	1:g:85:HIS:CD2	2.56	0.41
1:g:543:TYR:CE1	1:g:572:CYS:HA	2.54	0.41
1:g:595:SER:O	1:g:599:ILE:HG12	2.19	0.41
1:g:761:ARG:HH12	1:h:752:ALA:CA	2.32	0.41
1:g:772:TYR:CE1	1:h:770:LEU:HB3	2.55	0.41
1:h:315:ARG:HD3	1:h:316:LEU:O	2.20	0.41
1:i:315:ARG:HD3	1:i:316:LEU:O	2.20	0.41
1:i:761:ARG:HH12	1:j:752:ALA:HA	1.86	0.41
1:j:83:LEU:HB2	1:j:85:HIS:CD2	2.56	0.41
1:j:773:ALA:HA	1:j:776:GLN:HG2	2.02	0.41
1:k:37:ARG:HH11	1:k:43:VAL:H	1.67	0.41
1:k:83:LEU:HB2	1:k:85:HIS:CD2	2.56	0.41
1:k:195:GLU:O	1:k:263:VAL:HG21	2.20	0.41
1:l:20:ASP:HB3	1:l:23:SER:HB3	2.02	0.41
1:l:37:ARG:HH11	1:l:43:VAL:H	1.67	0.41
1:A:228:HIS:CE1	1:A:268:LEU:HD22	2.56	0.41
1:A:303:LYS:HG2	1:A:304:GLY:H	1.86	0.41
1:A:387:GLY:HA3	1:A:401:VAL:O	2.21	0.41
1:A:543:TYR:CE1	1:A:572:CYS:HA	2.54	0.41
1:B:761:ARG:HH12	1:C:752:ALA:HA	1.86	0.41
1:D:387:GLY:HA3	1:D:401:VAL:O	2.21	0.41
1:F:724:ALA:HB1	1:G:715:ALA:HA	2.02	0.41
1:F:780:GLU:HG3	1:F:783:LYS:NZ	2.35	0.41
1:G:195:GLU:O	1:G:263:VAL:HG21	2.20	0.41
1:G:343:GLY:O	1:G:344:GLU:HG2	2.21	0.41
1:G:485:GLU:OE2	1:H:471:TYR:OH	2.37	0.41
1:G:761:ARG:HH12	1:H:752:ALA:CA	2.32	0.41
1:H:303:LYS:HG2	1:H:304:GLY:H	1.86	0.41
1:I:754:GLU:OE2	1:J:744:ALA:HB2	2.21	0.41
1:J:303:LYS:HG2	1:J:304:GLY:H	1.86	0.41
1:J:343:GLY:O	1:J:344:GLU:HG2	2.21	0.41
1:J:387:GLY:HA3	1:J:401:VAL:O	2.21	0.41
1:J:597:ARG:NH2	1:K:585:SER:HB3	2.32	0.41
1:J:650:THR:O	1:J:654:LEU:HG	2.20	0.41
1:K:83:LEU:HB2	1:K:85:HIS:CD2	2.56	0.41
1:K:761:ARG:HH12	1:L:752:ALA:CA	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:83:LEU:HB2	1:L:85:HIS:CD2	2.56	0.41
1:L:724:ALA:HB1	1:M:715:ALA:HA	2.02	0.41
1:M:772:TYR:CE1	1:N:770:LEU:HB3	2.55	0.41
1:N:650:THR:O	1:N:654:LEU:HG	2.21	0.41
1:O:343:GLY:O	1:O:344:GLU:HG2	2.21	0.41
1:P:37:ARG:HH11	1:P:43:VAL:H	1.67	0.41
1:P:754:GLU:OE2	1:Q:744:ALA:HB2	2.21	0.41
1:Q:56:ARG:NH2	1:R:156:GLU:HA	2.32	0.41
1:Q:83:LEU:HB2	1:Q:85:HIS:CD2	2.56	0.41
1:Q:704:LYS:HA	1:Q:704:LYS:HD2	1.88	0.41
1:R:772:TYR:CE1	1:S:770:LEU:HB3	2.55	0.41
1:S:335:LYS:HG3	1:S:374:VAL:HG21	2.02	0.41
1:T:195:GLU:O	1:T:263:VAL:HG21	2.20	0.41
1:T:502:ALA:HB3	1:T:510:ALA:HB3	2.02	0.41
1:U:56:ARG:NH2	1:V:156:GLU:HA	2.32	0.41
1:U:387:GLY:HA3	1:U:401:VAL:O	2.21	0.41
1:U:735:ILE:HD12	1:V:726:ALA:HB3	2.02	0.41
1:U:754:GLU:OE2	1:V:744:ALA:HB2	2.21	0.41
1:V:710:GLU:O	1:V:713:SER:HB2	2.21	0.41
1:W:725:GLU:O	1:W:728:SER:OG	2.38	0.41
1:W:770:LEU:HD12	1:W:771:ILE:N	2.35	0.41
1:X:237:ASP:OD1	1:X:241:VAL:N	2.44	0.41
1:Y:335:LYS:HG3	1:Y:374:VAL:HG21	2.02	0.41
1:Y:738:GLU:O	1:Z:734:ARG:NH2	2.53	0.41
1:Z:387:GLY:HA3	1:Z:401:VAL:O	2.21	0.41
1:Z:502:ALA:HB3	1:Z:510:ALA:HB3	2.02	0.41
1:a:387:GLY:HA3	1:a:401:VAL:O	2.21	0.41
1:a:714:MET:HA	1:a:717:GLU:OE1	2.20	0.41
1:a:738:GLU:O	1:b:734:ARG:NH2	2.53	0.41
1:b:502:ALA:HB3	1:b:510:ALA:HB3	2.03	0.41
1:b:710:GLU:O	1:b:713:SER:HB2	2.21	0.41
1:d:502:ALA:HB3	1:d:510:ALA:HB3	2.02	0.41
1:d:765:VAL:O	1:d:769:GLU:HG2	2.20	0.41
1:e:228:HIS:CE1	1:e:268:LEU:HD22	2.56	0.41
1:f:228:HIS:CE1	1:f:268:LEU:HD22	2.56	0.41
1:f:343:GLY:O	1:f:344:GLU:HG2	2.21	0.41
1:f:710:GLU:O	1:f:713:SER:HB2	2.21	0.41
1:f:714:MET:HA	1:f:717:GLU:OE1	2.20	0.41
1:f:772:TYR:CE1	1:g:770:LEU:HB3	2.55	0.41
1:g:387:GLY:HA3	1:g:401:VAL:O	2.21	0.41
1:h:10:ILE:HB	1:h:33:LYS:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:195:GLU:O	1:i:263:VAL:HG21	2.20	0.41
1:i:742:LEU:HB3	1:j:734:ARG:CZ	2.50	0.41
1:i:753:ILE:HA	1:i:756:GLU:HG3	2.02	0.41
1:i:754:GLU:OE2	1:j:744:ALA:HB2	2.21	0.41
1:j:597:ARG:NH2	1:k:585:SER:HB3	2.32	0.41
1:j:688:LEU:HG	1:j:691:GLN:NE2	2.34	0.41
1:k:68:ASP:HB3	1:k:74:LEU:HD11	2.01	0.41
1:k:597:ARG:NH2	1:l:585:SER:HB3	2.32	0.41
1:l:303:LYS:HG2	1:l:304:GLY:H	1.86	0.41
1:m:387:GLY:HA3	1:m:401:VAL:O	2.21	0.41
1:A:83:LEU:HB2	1:A:85:HIS:CD2	2.56	0.41
1:A:770:LEU:HD12	1:A:771:ILE:N	2.35	0.41
1:B:315:ARG:HD3	1:B:316:LEU:O	2.20	0.41
1:B:343:GLY:O	1:B:344:GLU:HG2	2.21	0.41
1:C:52:THR:HG22	1:C:96:PRO:HB3	2.01	0.41
1:D:83:LEU:HB2	1:D:85:HIS:CD2	2.56	0.41
1:D:278:PRO:HB2	1:E:338:GLN:NE2	2.36	0.41
1:E:303:LYS:HG2	1:E:304:GLY:H	1.86	0.41
1:E:754:GLU:OE2	1:F:744:ALA:HB2	2.21	0.41
1:E:759:LEU:HA	1:E:759:LEU:HD23	1.90	0.41
1:G:387:GLY:HA3	1:G:401:VAL:O	2.21	0.41
1:H:765:VAL:O	1:H:768:MET:HG3	2.20	0.41
1:I:704:LYS:HD2	1:I:704:LYS:HA	1.88	0.41
1:J:724:ALA:HB1	1:K:715:ALA:HA	2.02	0.41
1:K:710:GLU:O	1:K:713:SER:HB2	2.21	0.41
1:K:761:ARG:HH12	1:L:752:ALA:HA	1.86	0.41
1:L:650:THR:O	1:L:654:LEU:HG	2.20	0.41
1:L:742:LEU:HB3	1:M:734:ARG:CZ	2.50	0.41
1:M:37:ARG:HH11	1:M:43:VAL:H	1.67	0.41
1:M:591:PHE:CD1	1:M:598:ILE:HD11	2.56	0.41
1:N:83:LEU:HB2	1:N:85:HIS:CD2	2.56	0.41
1:N:195:GLU:O	1:N:263:VAL:HG21	2.20	0.41
1:N:735:ILE:HD12	1:O:726:ALA:HB3	2.02	0.41
1:O:169:LYS:O	1:O:172:GLN:HB2	2.21	0.41
1:O:688:LEU:HG	1:O:691:GLN:NE2	2.34	0.41
1:P:83:LEU:HB2	1:P:85:HIS:CD2	2.56	0.41
1:P:714:MET:HA	1:P:717:GLU:OE1	2.20	0.41
1:Q:650:THR:O	1:Q:654:LEU:HG	2.21	0.41
1:Q:761:ARG:HH12	1:R:752:ALA:CA	2.32	0.41
1:Q:773:ALA:HA	1:Q:776:GLN:HG2	2.02	0.41
1:R:343:GLY:O	1:R:344:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:527:ILE:HD12	1:R:576:ALA:HB1	2.01	0.41
1:S:724:ALA:HB1	1:T:715:ALA:HA	2.02	0.41
1:T:738:GLU:O	1:U:734:ARG:NH2	2.53	0.41
1:U:195:GLU:O	1:U:263:VAL:HG21	2.20	0.41
1:U:724:ALA:HB1	1:V:715:ALA:HA	2.02	0.41
1:U:725:GLU:O	1:U:728:SER:OG	2.38	0.41
1:U:738:GLU:O	1:V:734:ARG:NH2	2.53	0.41
1:V:700:GLU:HA	1:V:703:ARG:CB	2.51	0.41
1:W:52:THR:HG22	1:W:96:PRO:HB3	2.01	0.41
1:W:761:ARG:HH12	1:X:752:ALA:CA	2.33	0.41
1:Y:710:GLU:O	1:Y:713:SER:HB2	2.21	0.41
1:Y:714:MET:HA	1:Y:717:GLU:OE1	2.20	0.41
1:Z:710:GLU:O	1:Z:713:SER:HB2	2.21	0.41
1:Z:714:MET:HA	1:Z:717:GLU:OE1	2.20	0.41
1:Z:735:ILE:HD12	1:a:726:ALA:HB3	2.02	0.41
1:a:195:GLU:O	1:a:263:VAL:HG21	2.20	0.41
1:a:228:HIS:CE1	1:a:268:LEU:HD22	2.56	0.41
1:b:303:LYS:HG2	1:b:304:GLY:H	1.86	0.41
1:b:315:ARG:HD3	1:b:316:LEU:O	2.20	0.41
1:b:754:GLU:OE2	1:c:744:ALA:HB2	2.21	0.41
1:b:761:ARG:HH12	1:c:752:ALA:CA	2.33	0.41
1:d:37:ARG:HH11	1:d:43:VAL:H	1.67	0.41
1:d:780:GLU:HG3	1:d:783:LYS:NZ	2.35	0.41
1:f:195:GLU:O	1:f:263:VAL:HG21	2.20	0.41
1:f:303:LYS:HG2	1:f:304:GLY:H	1.86	0.41
1:g:195:GLU:O	1:g:263:VAL:HG21	2.20	0.41
1:h:52:THR:HG22	1:h:96:PRO:HB3	2.01	0.41
1:h:195:GLU:O	1:h:263:VAL:HG21	2.20	0.41
1:h:228:HIS:CE1	1:h:268:LEU:HD22	2.56	0.41
1:h:343:GLY:O	1:h:344:GLU:HG2	2.21	0.41
1:h:746:LEU:HD13	1:i:737:GLY:HA2	2.01	0.41
1:h:761:ARG:HH12	1:i:752:ALA:HA	1.86	0.41
1:i:335:LYS:HG3	1:i:374:VAL:HG21	2.02	0.41
1:i:759:LEU:HA	1:i:759:LEU:HD23	1.90	0.41
1:i:765:VAL:O	1:i:768:MET:HG3	2.20	0.41
1:i:772:TYR:CE1	1:j:770:LEU:HB3	2.55	0.41
1:j:195:GLU:O	1:j:263:VAL:HG21	2.20	0.41
1:j:343:GLY:O	1:j:344:GLU:HG2	2.21	0.41
1:j:387:GLY:HA3	1:j:401:VAL:O	2.21	0.41
1:j:423:VAL:HG13	1:j:452:ARG:HD3	2.03	0.41
1:k:502:ALA:HB3	1:k:510:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:770:LEU:HD12	1:k:771:ILE:N	2.35	0.41
1:l:228:HIS:CE1	1:l:268:LEU:HD22	2.56	0.41
1:l:343:GLY:O	1:l:344:GLU:HG2	2.21	0.41
1:l:363:LEU:HD23	1:l:363:LEU:HA	1.94	0.41
1:m:663:GLU:O	1:m:666:THR:OG1	2.26	0.41
1:A:502:ALA:HB3	1:A:510:ALA:HB3	2.02	0.41
1:B:169:LYS:O	1:B:172:GLN:HB2	2.21	0.41
1:B:383:ASP:OD1	1:C:391:GLN:NE2	2.50	0.41
1:B:543:TYR:CE1	1:B:572:CYS:HA	2.54	0.41
1:B:765:VAL:O	1:B:769:GLU:HG2	2.20	0.41
1:C:195:GLU:O	1:C:263:VAL:HG21	2.20	0.41
1:C:765:VAL:O	1:C:769:GLU:HG2	2.20	0.41
1:D:56:ARG:NH2	1:E:156:GLU:HA	2.32	0.41
1:D:423:VAL:HG13	1:D:452:ARG:HD3	2.03	0.41
1:E:650:THR:O	1:E:654:LEU:HG	2.20	0.41
1:F:169:LYS:O	1:F:172:GLN:HB2	2.21	0.41
1:F:303:LYS:HG2	1:F:304:GLY:H	1.86	0.41
1:F:543:TYR:CE1	1:F:572:CYS:HA	2.54	0.41
1:F:761:ARG:HH12	1:G:752:ALA:HA	1.86	0.41
1:F:794:LYS:HD2	1:G:788:ALA:HB1	2.03	0.41
1:G:169:LYS:O	1:G:172:GLN:HB2	2.21	0.41
1:H:710:GLU:O	1:H:713:SER:HB2	2.21	0.41
1:H:761:ARG:HH12	1:I:752:ALA:HA	1.86	0.41
1:I:303:LYS:HG2	1:I:304:GLY:H	1.86	0.41
1:I:343:GLY:O	1:I:344:GLU:HG2	2.21	0.41
1:I:423:VAL:HG13	1:I:452:ARG:HD3	2.03	0.41
1:I:714:MET:HA	1:I:717:GLU:OE1	2.20	0.41
1:I:753:ILE:HA	1:I:756:GLU:HG3	2.02	0.41
1:J:56:ARG:NH2	1:K:156:GLU:HA	2.32	0.41
1:J:621:LYS:HD2	1:J:621:LYS:HA	1.94	0.41
1:J:761:ARG:HH12	1:K:752:ALA:HA	1.86	0.41
1:K:423:VAL:HG13	1:K:452:ARG:HD3	2.03	0.41
1:K:714:MET:HA	1:K:717:GLU:OE1	2.20	0.41
1:K:770:LEU:HD12	1:K:771:ILE:N	2.35	0.41
1:L:278:PRO:HB2	1:M:338:GLN:NE2	2.36	0.41
1:L:315:ARG:HD3	1:L:316:LEU:O	2.20	0.41
1:L:423:VAL:HG13	1:L:452:ARG:HD3	2.03	0.41
1:M:387:GLY:HA3	1:M:401:VAL:O	2.21	0.41
1:M:735:ILE:HD12	1:N:726:ALA:HB3	2.02	0.41
1:N:228:HIS:CE1	1:N:268:LEU:HD22	2.56	0.41
1:O:742:LEU:HB3	1:P:734:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:169:LYS:O	1:R:172:GLN:HB2	2.21	0.41
1:R:742:LEU:HB3	1:S:734:ARG:CZ	2.50	0.41
1:R:753:ILE:HA	1:R:756:GLU:HG3	2.02	0.41
1:S:710:GLU:O	1:S:713:SER:HB2	2.21	0.41
1:T:704:LYS:HD2	1:T:704:LYS:HA	1.88	0.41
1:U:502:ALA:HB3	1:U:510:ALA:HB3	2.03	0.41
1:U:597:ARG:NH2	1:V:585:SER:HB3	2.32	0.41
1:U:773:ALA:HA	1:U:776:GLN:HG2	2.02	0.41
1:W:228:HIS:CE1	1:W:268:LEU:HD22	2.56	0.41
1:W:724:ALA:HB1	1:X:715:ALA:HA	2.02	0.41
1:X:278:PRO:HB2	1:Y:338:GLN:NE2	2.36	0.41
1:X:688:LEU:HG	1:X:691:GLN:NE2	2.34	0.41
1:Y:343:GLY:O	1:Y:344:GLU:HG2	2.21	0.41
1:Y:591:PHE:CD1	1:Y:598:ILE:HD11	2.56	0.41
1:Z:83:LEU:HB2	1:Z:85:HIS:CD2	2.56	0.41
1:Z:594:ASN:OD1	1:Z:597:ARG:NE	2.46	0.41
1:Z:700:GLU:HA	1:Z:703:ARG:CB	2.51	0.41
1:Z:704:LYS:HA	1:Z:704:LYS:HD2	1.89	0.41
1:b:83:LEU:HB2	1:b:85:HIS:CD2	2.56	0.41
1:b:761:ARG:HH12	1:c:752:ALA:HA	1.86	0.41
1:c:335:LYS:HG3	1:c:374:VAL:HG21	2.02	0.41
1:d:278:PRO:HB2	1:e:338:GLN:NE2	2.36	0.41
1:d:714:MET:HA	1:d:717:GLU:OE1	2.20	0.41
1:d:754:GLU:OE2	1:e:744:ALA:HB2	2.21	0.41
1:d:790:VAL:HB	1:e:785:GLN:OE1	2.21	0.41
1:e:303:LYS:HG2	1:e:304:GLY:H	1.86	0.41
1:e:753:ILE:HA	1:e:756:GLU:HG3	2.02	0.41
1:f:734:ARG:HA	1:f:734:ARG:HD3	1.73	0.41
1:g:37:ARG:HH11	1:g:43:VAL:H	1.67	0.41
1:g:169:LYS:O	1:g:172:GLN:HB2	2.21	0.41
1:g:303:LYS:HG2	1:g:304:GLY:H	1.86	0.41
1:g:650:THR:O	1:g:654:LEU:HG	2.21	0.41
1:g:754:GLU:OE2	1:h:744:ALA:HB2	2.21	0.41
1:g:765:VAL:O	1:g:769:GLU:HG2	2.20	0.41
1:g:773:ALA:HA	1:g:776:GLN:HG2	2.02	0.41
1:i:597:ARG:NH2	1:j:585:SER:HB3	2.32	0.41
1:j:335:LYS:HG3	1:j:374:VAL:HG21	2.02	0.41
1:j:714:MET:HA	1:j:717:GLU:OE1	2.20	0.41
1:k:303:LYS:HG2	1:k:304:GLY:H	1.86	0.41
1:l:780:GLU:HG3	1:l:783:LYS:NZ	2.35	0.41
1:m:343:GLY:O	1:m:344:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LYS:O	1:A:172:GLN:HB2	2.21	0.41
1:A:195:GLU:O	1:A:263:VAL:HG21	2.20	0.41
1:A:278:PRO:HB2	1:B:338:GLN:NE2	2.36	0.41
1:A:650:THR:O	1:A:654:LEU:HG	2.21	0.41
1:A:744:ALA:HB2	1:m:754:GLU:OE2	2.21	0.41
1:A:754:GLU:OE2	1:B:744:ALA:HB2	2.21	0.41
1:A:779:LEU:HD13	1:B:774:ARG:HE	1.82	0.41
1:B:20:ASP:HB3	1:B:23:SER:HB3	2.02	0.41
1:B:195:GLU:O	1:B:263:VAL:HG21	2.20	0.41
1:B:303:LYS:HG2	1:B:304:GLY:H	1.86	0.41
1:B:700:GLU:HA	1:B:703:ARG:CB	2.51	0.41
1:B:710:GLU:O	1:B:713:SER:HB2	2.21	0.41
1:B:714:MET:HA	1:B:717:GLU:OE1	2.20	0.41
1:B:742:LEU:HB3	1:C:734:ARG:CZ	2.50	0.41
1:C:58:TYR:CZ	1:C:153:PRO:HG2	2.56	0.41
1:C:169:LYS:O	1:C:172:GLN:HB2	2.21	0.41
1:C:335:LYS:HG3	1:C:374:VAL:HG21	2.02	0.41
1:C:387:GLY:HA3	1:C:401:VAL:O	2.21	0.41
1:D:59:CYS:HB2	1:D:107:LYS:O	2.21	0.41
1:D:753:ILE:HA	1:D:756:GLU:HG3	2.02	0.41
1:D:761:ARG:HH12	1:E:752:ALA:HA	1.86	0.41
1:D:772:TYR:CE1	1:E:770:LEU:HB3	2.55	0.41
1:D:790:VAL:HB	1:E:785:GLN:OE1	2.21	0.41
1:E:228:HIS:CE1	1:E:268:LEU:HD22	2.56	0.41
1:E:387:GLY:HA3	1:E:401:VAL:O	2.21	0.41
1:E:700:GLU:HA	1:E:703:ARG:CB	2.51	0.41
1:F:195:GLU:O	1:F:263:VAL:HG21	2.20	0.41
1:F:228:HIS:CE1	1:F:268:LEU:HD22	2.56	0.41
1:F:335:LYS:HG3	1:F:374:VAL:HG21	2.02	0.41
1:F:688:LEU:HG	1:F:691:GLN:NE2	2.34	0.41
1:F:710:GLU:O	1:F:713:SER:HB2	2.21	0.41
1:G:52:THR:HG22	1:G:96:PRO:HB3	2.01	0.41
1:G:228:HIS:CE1	1:G:268:LEU:HD22	2.56	0.41
1:G:650:THR:O	1:G:654:LEU:HG	2.20	0.41
1:H:83:LEU:HB2	1:H:85:HIS:CD2	2.56	0.41
1:H:278:PRO:HB2	1:I:338:GLN:NE2	2.36	0.41
1:H:650:THR:O	1:H:654:LEU:HG	2.21	0.41
1:H:759:LEU:HA	1:H:759:LEU:HD23	1.90	0.41
1:H:790:VAL:HB	1:I:785:GLN:OE1	2.21	0.41
1:I:83:LEU:HB2	1:I:85:HIS:CD2	2.56	0.41
1:I:228:HIS:CE1	1:I:268:LEU:HD22	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:790:VAL:HB	1:J:785:GLN:OE1	2.21	0.41
1:J:228:HIS:CE1	1:J:268:LEU:HD22	2.56	0.41
1:J:273:ILE:HB	1:J:309:PHE:CE1	2.56	0.41
1:J:335:LYS:HG3	1:J:374:VAL:HG21	2.02	0.41
1:J:423:VAL:HG13	1:J:452:ARG:HD3	2.03	0.41
1:J:502:ALA:HB3	1:J:510:ALA:HB3	2.02	0.41
1:J:591:PHE:CD1	1:J:598:ILE:HD11	2.56	0.41
1:J:765:VAL:O	1:J:769:GLU:HG2	2.20	0.41
1:K:169:LYS:O	1:K:172:GLN:HB2	2.21	0.41
1:K:700:GLU:HA	1:K:703:ARG:CB	2.51	0.41
1:K:753:ILE:HA	1:K:756:GLU:HG3	2.02	0.41
1:L:37:ARG:HH11	1:L:43:VAL:H	1.67	0.41
1:L:169:LYS:O	1:L:172:GLN:HB2	2.21	0.41
1:L:303:LYS:HG2	1:L:304:GLY:H	1.86	0.41
1:M:83:LEU:HB2	1:M:85:HIS:CD2	2.56	0.41
1:M:237:ASP:OD1	1:M:241:VAL:N	2.44	0.41
1:M:765:VAL:O	1:M:769:GLU:HG2	2.20	0.41
1:M:794:LYS:HD2	1:N:788:ALA:HB1	2.03	0.41
1:N:169:LYS:O	1:N:172:GLN:HB2	2.21	0.41
1:N:423:VAL:HG13	1:N:452:ARG:HD3	2.03	0.41
1:N:704:LYS:HE3	1:N:704:LYS:HB3	1.92	0.41
1:N:714:MET:HA	1:N:717:GLU:OE1	2.21	0.41
1:N:773:ALA:HA	1:N:776:GLN:HG2	2.02	0.41
1:O:56:ARG:NH2	1:P:156:GLU:HA	2.32	0.41
1:O:228:HIS:CE1	1:O:268:LEU:HD22	2.56	0.41
1:O:336:ALA:HB2	1:O:357:TRP:CZ3	2.54	0.41
1:O:650:THR:O	1:O:654:LEU:HG	2.21	0.41
1:O:772:TYR:CE1	1:P:770:LEU:HB3	2.55	0.41
1:P:20:ASP:HB3	1:P:23:SER:HB3	2.02	0.41
1:P:59:CYS:HB2	1:P:107:LYS:O	2.21	0.41
1:P:303:LYS:HG2	1:P:304:GLY:H	1.86	0.41
1:P:343:GLY:O	1:P:344:GLU:HG2	2.21	0.41
1:P:742:LEU:HB3	1:Q:734:ARG:CZ	2.50	0.41
1:Q:195:GLU:O	1:Q:263:VAL:HG21	2.20	0.41
1:Q:228:HIS:CE1	1:Q:268:LEU:HD22	2.56	0.41
1:Q:278:PRO:HB2	1:R:338:GLN:NE2	2.36	0.41
1:Q:591:PHE:CD1	1:Q:598:ILE:HD11	2.56	0.41
1:Q:724:ALA:HB1	1:R:715:ALA:HA	2.02	0.41
1:Q:761:ARG:HH12	1:R:752:ALA:HA	1.86	0.41
1:Q:790:VAL:HB	1:R:785:GLN:OE1	2.21	0.41
1:R:710:GLU:O	1:R:713:SER:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:59:CYS:HB2	1:S:107:LYS:O	2.21	0.41
1:S:278:PRO:HB2	1:T:338:GLN:NE2	2.36	0.41
1:S:597:ARG:NH2	1:T:585:SER:HB3	2.32	0.41
1:S:700:GLU:HA	1:S:703:ARG:CB	2.51	0.41
1:S:790:VAL:HB	1:T:785:GLN:OE1	2.21	0.41
1:T:20:ASP:HB3	1:T:23:SER:HB3	2.02	0.41
1:T:343:GLY:O	1:T:344:GLU:HG2	2.21	0.41
1:U:303:LYS:HG2	1:U:304:GLY:H	1.86	0.41
1:U:335:LYS:HG3	1:U:374:VAL:HG21	2.02	0.41
1:U:453:ASN:OD1	1:U:455:THR:OG1	2.24	0.41
1:U:710:GLU:O	1:U:713:SER:HB2	2.21	0.41
1:V:343:GLY:O	1:V:344:GLU:HG2	2.21	0.41
1:V:423:VAL:HG13	1:V:452:ARG:HD3	2.03	0.41
1:V:714:MET:HA	1:V:717:GLU:OE1	2.20	0.41
1:W:169:LYS:O	1:W:172:GLN:HB2	2.21	0.41
1:W:593:LYS:HA	1:W:593:LYS:HD2	1.91	0.41
1:W:710:GLU:O	1:W:713:SER:HB2	2.21	0.41
1:W:714:MET:HA	1:W:717:GLU:OE1	2.20	0.41
1:X:59:CYS:HB2	1:X:107:LYS:O	2.21	0.41
1:X:169:LYS:O	1:X:172:GLN:HB2	2.21	0.41
1:X:303:LYS:HG2	1:X:304:GLY:H	1.86	0.41
1:X:663:GLU:O	1:X:666:THR:OG1	2.26	0.41
1:X:765:VAL:O	1:X:769:GLU:HG2	2.20	0.41
1:X:773:ALA:HA	1:X:776:GLN:HG2	2.02	0.41
1:Y:59:CYS:HB2	1:Y:107:LYS:O	2.21	0.41
1:Y:597:ARG:NH2	1:Z:585:SER:HB3	2.32	0.41
1:Y:663:GLU:O	1:Y:666:THR:OG1	2.26	0.41
1:Y:772:TYR:CE1	1:Z:770:LEU:HB3	2.55	0.41
1:Z:423:VAL:HG13	1:Z:452:ARG:HD3	2.03	0.41
1:Z:761:ARG:HH12	1:a:752:ALA:HA	1.86	0.41
1:Z:773:ALA:HA	1:Z:776:GLN:HG2	2.02	0.41
1:a:278:PRO:HB2	1:b:338:GLN:NE2	2.36	0.41
1:a:650:THR:O	1:a:654:LEU:HG	2.21	0.41
1:a:754:GLU:OE2	1:b:744:ALA:HB2	2.21	0.41
1:b:335:LYS:HG3	1:b:374:VAL:HG21	2.02	0.41
1:b:650:THR:O	1:b:654:LEU:HG	2.21	0.41
1:c:169:LYS:O	1:c:172:GLN:HB2	2.21	0.41
1:c:761:ARG:HH12	1:d:752:ALA:HA	1.86	0.41
1:c:765:VAL:O	1:c:768:MET:HG3	2.19	0.41
1:c:773:ALA:HA	1:c:776:GLN:HG2	2.02	0.41
1:d:83:LEU:HB2	1:d:85:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:303:LYS:HG2	1:d:304:GLY:H	1.86	0.41
1:d:343:GLY:O	1:d:344:GLU:HG2	2.21	0.41
1:d:382:LEU:HD23	1:d:382:LEU:HA	1.92	0.41
1:d:595:SER:O	1:d:599:ILE:HG12	2.19	0.41
1:d:742:LEU:HB3	1:e:734:ARG:CZ	2.50	0.41
1:d:753:ILE:HA	1:d:756:GLU:HG3	2.02	0.41
1:e:59:CYS:HB2	1:e:107:LYS:O	2.21	0.41
1:e:578:ARG:HB3	1:e:603:VAL:HA	2.03	0.41
1:e:700:GLU:HA	1:e:703:ARG:CB	2.51	0.41
1:e:710:GLU:O	1:e:713:SER:HB2	2.21	0.41
1:e:772:TYR:CE1	1:f:770:LEU:HB3	2.55	0.41
1:e:773:ALA:HA	1:e:776:GLN:HG2	2.02	0.41
1:e:794:LYS:HD2	1:f:788:ALA:HB1	2.03	0.41
1:f:502:ALA:HB3	1:f:510:ALA:HB3	2.03	0.41
1:g:273:ILE:HB	1:g:309:PHE:CE1	2.56	0.41
1:g:278:PRO:HB2	1:h:338:GLN:NE2	2.36	0.41
1:g:735:ILE:HD12	1:h:726:ALA:HB3	2.02	0.41
1:h:169:LYS:O	1:h:172:GLN:HB2	2.21	0.41
1:h:724:ALA:HB1	1:i:715:ALA:HA	2.02	0.41
1:h:753:ILE:HA	1:h:756:GLU:HG3	2.02	0.41
1:h:779:LEU:HD13	1:i:774:ARG:HE	1.82	0.41
1:i:59:CYS:HB2	1:i:107:LYS:O	2.21	0.41
1:i:278:PRO:HB2	1:j:338:GLN:NE2	2.36	0.41
1:i:387:GLY:HA3	1:i:401:VAL:O	2.21	0.41
1:i:593:LYS:HA	1:i:593:LYS:HD2	1.92	0.41
1:i:794:LYS:HD2	1:j:788:ALA:HB1	2.03	0.41
1:j:303:LYS:HG2	1:j:304:GLY:H	1.86	0.41
1:j:704:LYS:HA	1:j:704:LYS:HD2	1.88	0.41
1:j:738:GLU:O	1:k:734:ARG:NH2	2.53	0.41
1:k:315:ARG:HD3	1:k:316:LEU:O	2.20	0.41
1:k:753:ILE:HA	1:k:756:GLU:HG3	2.02	0.41
1:k:754:GLU:OE2	1:l:744:ALA:HB2	2.21	0.41
1:l:387:GLY:HA3	1:l:401:VAL:O	2.21	0.41
1:l:597:ARG:NH2	1:m:585:SER:HB3	2.32	0.41
1:l:794:LYS:HD2	1:m:788:ALA:HB1	2.03	0.41
1:m:83:LEU:HB2	1:m:85:HIS:CD2	2.56	0.41
1:m:195:GLU:O	1:m:263:VAL:HG21	2.20	0.41
1:m:714:MET:HA	1:m:717:GLU:OE1	2.20	0.41
1:A:56:ARG:NH2	1:B:156:GLU:HA	2.32	0.41
1:A:726:ALA:HB3	1:m:735:ILE:HD12	2.02	0.41
1:A:735:ILE:HD12	1:B:726:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:ALA:HA	1:m:761:ARG:HH12	1.86	0.41
1:B:83:LEU:HB2	1:B:85:HIS:CD2	2.56	0.41
1:C:228:HIS:CE1	1:C:268:LEU:HD22	2.56	0.41
1:C:710:GLU:O	1:C:713:SER:HB2	2.21	0.41
1:C:753:ILE:HA	1:C:756:GLU:HG3	2.02	0.41
1:E:794:LYS:HD2	1:F:788:ALA:HB1	2.03	0.41
1:F:20:ASP:HB3	1:F:23:SER:HB3	2.02	0.41
1:F:790:VAL:HB	1:G:785:GLN:OE1	2.21	0.41
1:G:273:ILE:HB	1:G:309:PHE:CE1	2.56	0.41
1:H:169:LYS:O	1:H:172:GLN:HB2	2.21	0.41
1:I:502:ALA:HB3	1:I:510:ALA:HB3	2.02	0.41
1:I:700:GLU:HA	1:I:703:ARG:CB	2.51	0.41
1:I:780:GLU:HG3	1:I:783:LYS:NZ	2.35	0.41
1:J:710:GLU:O	1:J:713:SER:HB2	2.21	0.41
1:J:794:LYS:HD2	1:K:788:ALA:HB1	2.03	0.41
1:L:273:ILE:HB	1:L:309:PHE:CE1	2.56	0.41
1:M:58:TYR:CZ	1:M:153:PRO:HG2	2.56	0.41
1:N:58:TYR:CZ	1:N:153:PRO:HG2	2.56	0.41
1:N:303:LYS:HG2	1:N:304:GLY:H	1.86	0.41
1:N:710:GLU:O	1:N:713:SER:HB2	2.21	0.41
1:O:273:ILE:HB	1:O:309:PHE:CE1	2.56	0.41
1:P:278:PRO:HB2	1:Q:338:GLN:NE2	2.36	0.41
1:P:650:THR:O	1:P:654:LEU:HG	2.20	0.41
1:Q:502:ALA:HB3	1:Q:510:ALA:HB3	2.02	0.41
1:Q:710:GLU:O	1:Q:713:SER:HB2	2.21	0.41
1:Q:714:MET:HA	1:Q:717:GLU:OE1	2.20	0.41
1:Q:735:ILE:HD12	1:R:726:ALA:HB3	2.02	0.41
1:R:56:ARG:NH2	1:S:156:GLU:HA	2.32	0.41
1:R:228:HIS:CE1	1:R:268:LEU:HD22	2.56	0.41
1:R:303:LYS:HG2	1:R:304:GLY:H	1.86	0.41
1:R:336:ALA:HB2	1:R:357:TRP:CZ3	2.54	0.41
1:R:578:ARG:HB3	1:R:603:VAL:HA	2.03	0.41
1:R:700:GLU:HA	1:R:703:ARG:CB	2.51	0.41
1:R:724:ALA:HB1	1:S:715:ALA:HA	2.02	0.41
1:R:761:ARG:HH12	1:S:752:ALA:HA	1.86	0.41
1:R:773:ALA:HA	1:R:776:GLN:HG2	2.02	0.41
1:S:273:ILE:HB	1:S:309:PHE:CE1	2.56	0.41
1:S:650:THR:O	1:S:654:LEU:HG	2.21	0.41
1:T:228:HIS:CE1	1:T:268:LEU:HD22	2.56	0.41
1:V:278:PRO:HB2	1:W:338:GLN:NE2	2.36	0.41
1:W:502:ALA:HB3	1:W:510:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:650:THR:O	1:W:654:LEU:HG	2.20	0.41
1:X:58:TYR:CZ	1:X:153:PRO:HG2	2.56	0.41
1:Y:56:ARG:NH2	1:Z:156:GLU:HA	2.32	0.41
1:Y:169:LYS:O	1:Y:172:GLN:HB2	2.21	0.41
1:Y:195:GLU:O	1:Y:263:VAL:HG21	2.20	0.41
1:Y:423:VAL:HG13	1:Y:452:ARG:HD3	2.03	0.41
1:Y:542:ALA:HB3	1:Y:639:ASP:H	1.86	0.41
1:Y:725:GLU:O	1:Y:728:SER:OG	2.38	0.41
1:Z:59:CYS:HB2	1:Z:107:LYS:O	2.21	0.41
1:Z:542:ALA:HB3	1:Z:639:ASP:H	1.86	0.41
1:b:20:ASP:HB3	1:b:23:SER:HB3	2.02	0.41
1:b:228:HIS:CE1	1:b:268:LEU:HD22	2.56	0.41
1:b:593:LYS:HA	1:b:593:LYS:HD2	1.91	0.41
1:c:688:LEU:HG	1:c:691:GLN:NE2	2.34	0.41
1:c:790:VAL:HB	1:d:785:GLN:OE1	2.21	0.41
1:d:169:LYS:O	1:d:172:GLN:HB2	2.21	0.41
1:d:228:HIS:CE1	1:d:268:LEU:HD22	2.56	0.41
1:d:363:LEU:HD23	1:d:363:LEU:HA	1.94	0.41
1:d:772:TYR:CE1	1:e:770:LEU:HB3	2.55	0.41
1:f:704:LYS:HA	1:f:704:LYS:HD2	1.89	0.41
1:g:228:HIS:CE1	1:g:268:LEU:HD22	2.56	0.41
1:g:688:LEU:HG	1:g:691:GLN:NE2	2.34	0.41
1:h:58:TYR:CZ	1:h:153:PRO:HG2	2.56	0.41
1:h:725:GLU:O	1:h:728:SER:OG	2.38	0.41
1:j:700:GLU:HA	1:j:703:ARG:CB	2.51	0.41
1:k:714:MET:HA	1:k:717:GLU:OE1	2.20	0.41
1:k:725:GLU:O	1:k:728:SER:OG	2.38	0.41
1:l:278:PRO:HB2	1:m:338:GLN:NE2	2.36	0.41
1:l:578:ARG:HB3	1:l:603:VAL:HA	2.03	0.41
1:l:700:GLU:HA	1:l:703:ARG:CB	2.51	0.41
1:m:20:ASP:HB3	1:m:23:SER:HB3	2.02	0.41
1:m:58:TYR:CZ	1:m:153:PRO:HG2	2.56	0.41
1:m:273:ILE:HB	1:m:309:PHE:CE1	2.56	0.41
1:A:346:GLU:H	1:A:346:GLU:CD	2.30	0.40
1:A:423:VAL:HG13	1:A:452:ARG:HD3	2.03	0.40
1:A:591:PHE:CD1	1:A:598:ILE:HD11	2.56	0.40
1:B:335:LYS:HG3	1:B:374:VAL:HG21	2.02	0.40
1:B:575:ILE:HD11	1:B:635:VAL:HG21	2.04	0.40
1:B:591:PHE:CD1	1:B:598:ILE:HD11	2.56	0.40
1:B:790:VAL:HB	1:C:785:GLN:OE1	2.21	0.40
1:C:59:CYS:HB2	1:C:107:LYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:597:ARG:NH2	1:D:585:SER:HB3	2.32	0.40
1:D:284:ILE:HD11	1:D:308:PHE:CZ	2.57	0.40
1:E:169:LYS:O	1:E:172:GLN:HB2	2.21	0.40
1:E:315:ARG:HD3	1:E:316:LEU:O	2.20	0.40
1:E:502:ALA:HB3	1:E:510:ALA:HB3	2.02	0.40
1:E:710:GLU:O	1:E:713:SER:HB2	2.21	0.40
1:E:801:ALA:HB3	1:F:796:LYS:HZ3	1.85	0.40
1:F:58:TYR:CZ	1:F:153:PRO:HG2	2.56	0.40
1:F:714:MET:HA	1:F:717:GLU:OE1	2.20	0.40
1:G:58:TYR:CZ	1:G:153:PRO:HG2	2.56	0.40
1:G:59:CYS:HB2	1:G:107:LYS:O	2.21	0.40
1:G:147:GLY:HA3	1:G:148:PRO:HA	1.94	0.40
1:G:303:LYS:HG2	1:G:304:GLY:H	1.86	0.40
1:G:382:LEU:O	1:H:396:GLY:HA3	2.22	0.40
1:G:761:ARG:HH12	1:H:752:ALA:HA	1.86	0.40
1:H:59:CYS:HB2	1:H:107:LYS:O	2.21	0.40
1:H:387:GLY:HA3	1:H:401:VAL:O	2.21	0.40
1:H:423:VAL:HG13	1:H:452:ARG:HD3	2.03	0.40
1:J:346:GLU:H	1:J:346:GLU:CD	2.30	0.40
1:K:195:GLU:O	1:K:263:VAL:HG21	2.20	0.40
1:K:228:HIS:CE1	1:K:268:LEU:HD22	2.56	0.40
1:K:578:ARG:HB3	1:K:603:VAL:HA	2.03	0.40
1:L:753:ILE:HA	1:L:756:GLU:HG3	2.02	0.40
1:M:423:VAL:HG13	1:M:452:ARG:HD3	2.03	0.40
1:N:578:ARG:HB3	1:N:603:VAL:HA	2.03	0.40
1:N:770:LEU:HD12	1:N:771:ILE:N	2.35	0.40
1:O:773:ALA:HA	1:O:776:GLN:HG2	2.02	0.40
1:P:284:ILE:HD11	1:P:308:PHE:CZ	2.57	0.40
1:P:502:ALA:HB3	1:P:510:ALA:HB3	2.03	0.40
1:P:710:GLU:O	1:P:713:SER:HB2	2.21	0.40
1:Q:273:ILE:HB	1:Q:309:PHE:CE1	2.57	0.40
1:Q:387:GLY:HA3	1:Q:401:VAL:O	2.21	0.40
1:Q:578:ARG:HB3	1:Q:603:VAL:HA	2.03	0.40
1:R:485:GLU:OE2	1:S:471:TYR:OH	2.38	0.40
1:R:650:THR:O	1:R:654:LEU:HG	2.21	0.40
1:S:284:ILE:HD11	1:S:308:PHE:CZ	2.56	0.40
1:T:37:ARG:HH11	1:T:43:VAL:H	1.67	0.40
1:U:346:GLU:H	1:U:346:GLU:CD	2.30	0.40
1:U:790:VAL:HB	1:V:785:GLN:OE1	2.21	0.40
1:V:58:TYR:CZ	1:V:153:PRO:HG2	2.56	0.40
1:V:228:HIS:CE1	1:V:268:LEU:HD22	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:725:GLU:O	1:V:728:SER:OG	2.37	0.40
1:V:735:ILE:HD12	1:W:726:ALA:HB3	2.02	0.40
1:W:273:ILE:HB	1:W:309:PHE:CE1	2.56	0.40
1:W:790:VAL:HB	1:X:785:GLN:OE1	2.21	0.40
1:X:83:LEU:HB2	1:X:85:HIS:CD2	2.56	0.40
1:X:542:ALA:HB3	1:X:639:ASP:H	1.86	0.40
1:X:575:ILE:HD11	1:X:635:VAL:HG21	2.04	0.40
1:X:710:GLU:O	1:X:713:SER:HB2	2.21	0.40
1:Y:58:TYR:CZ	1:Y:153:PRO:HG2	2.56	0.40
1:Z:794:LYS:HD2	1:a:788:ALA:HB1	2.03	0.40
1:a:59:CYS:HB2	1:a:107:LYS:O	2.21	0.40
1:a:724:ALA:HB1	1:b:715:ALA:HA	2.02	0.40
1:b:273:ILE:HB	1:b:309:PHE:CE1	2.56	0.40
1:b:735:ILE:HD12	1:c:726:ALA:HB3	2.02	0.40
1:c:284:ILE:HD11	1:c:308:PHE:CZ	2.57	0.40
1:d:704:LYS:HD2	1:d:704:LYS:HA	1.88	0.40
1:e:169:LYS:O	1:e:172:GLN:HB2	2.21	0.40
1:e:453:ASN:OD1	1:e:455:THR:OG1	2.24	0.40
1:e:754:GLU:OE2	1:f:744:ALA:HB2	2.21	0.40
1:f:423:VAL:HG13	1:f:452:ARG:HD3	2.03	0.40
1:f:790:VAL:HB	1:g:785:GLN:OE1	2.21	0.40
1:f:794:LYS:HD2	1:g:788:ALA:HB1	2.03	0.40
1:g:663:GLU:O	1:g:666:THR:OG1	2.26	0.40
1:g:737:GLY:O	1:g:740:SER:OG	2.28	0.40
1:h:83:LEU:HB2	1:h:85:HIS:CD2	2.56	0.40
1:h:284:ILE:HD11	1:h:308:PHE:CZ	2.57	0.40
1:h:335:LYS:HG3	1:h:374:VAL:HG21	2.02	0.40
1:h:387:GLY:HA3	1:h:401:VAL:O	2.21	0.40
1:i:273:ILE:HB	1:i:309:PHE:CE1	2.56	0.40
1:i:714:MET:HA	1:i:717:GLU:OE1	2.20	0.40
1:i:744:ALA:HA	1:i:747:LYS:HG2	2.04	0.40
1:j:169:LYS:O	1:j:172:GLN:HB2	2.21	0.40
1:j:382:LEU:O	1:k:396:GLY:HA3	2.22	0.40
1:j:790:VAL:HB	1:k:785:GLN:OE1	2.21	0.40
1:k:387:GLY:HA3	1:k:401:VAL:O	2.21	0.40
1:k:423:VAL:HG13	1:k:452:ARG:HD3	2.03	0.40
1:k:742:LEU:HB3	1:l:734:ARG:CZ	2.50	0.40
1:l:753:ILE:HA	1:l:756:GLU:HG3	2.02	0.40
1:m:650:THR:O	1:m:654:LEU:HG	2.21	0.40
1:m:725:GLU:O	1:m:728:SER:OG	2.37	0.40
1:A:761:ARG:HH12	1:B:752:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:788:ALA:HB1	1:m:794:LYS:HD2	2.03	0.40
1:B:273:ILE:HB	1:B:309:PHE:CE1	2.56	0.40
1:B:387:GLY:HA3	1:B:401:VAL:O	2.21	0.40
1:B:502:ALA:HB3	1:B:510:ALA:HB3	2.03	0.40
1:C:105:LEU:HD21	1:C:108:ASP:HB3	2.04	0.40
1:C:502:ALA:HB3	1:C:510:ALA:HB3	2.02	0.40
1:C:744:ALA:HA	1:C:747:LYS:HG2	2.04	0.40
1:D:273:ILE:HB	1:D:309:PHE:CE1	2.56	0.40
1:D:303:LYS:HG2	1:D:304:GLY:H	1.86	0.40
1:D:363:LEU:HD23	1:D:363:LEU:HA	1.94	0.40
1:D:382:LEU:HD23	1:D:382:LEU:HA	1.92	0.40
1:D:382:LEU:O	1:E:396:GLY:HA3	2.22	0.40
1:D:502:ALA:HB3	1:D:510:ALA:HB3	2.02	0.40
1:D:710:GLU:O	1:D:713:SER:HB2	2.21	0.40
1:E:578:ARG:HB3	1:E:603:VAL:HA	2.03	0.40
1:E:714:MET:HA	1:E:717:GLU:OE1	2.20	0.40
1:E:761:ARG:HH12	1:F:752:ALA:HA	1.86	0.40
1:F:382:LEU:O	1:G:396:GLY:HA3	2.22	0.40
1:F:542:ALA:HB3	1:F:639:ASP:H	1.86	0.40
1:F:578:ARG:HB3	1:F:603:VAL:HA	2.04	0.40
1:G:578:ARG:HB3	1:G:603:VAL:HA	2.03	0.40
1:G:753:ILE:HA	1:G:756:GLU:HG3	2.02	0.40
1:G:794:LYS:HD2	1:H:788:ALA:HB1	2.03	0.40
1:J:58:TYR:CZ	1:J:153:PRO:HG2	2.56	0.40
1:J:83:LEU:HB2	1:J:85:HIS:CD2	2.56	0.40
1:J:278:PRO:HB2	1:K:338:GLN:NE2	2.36	0.40
1:K:335:LYS:HG3	1:K:374:VAL:HG21	2.02	0.40
1:L:575:ILE:HD11	1:L:635:VAL:HG21	2.04	0.40
1:L:759:LEU:HA	1:L:759:LEU:HD23	1.90	0.40
1:L:790:VAL:HB	1:M:785:GLN:OE1	2.21	0.40
1:M:113:GLN:NE2	1:M:151:TYR:H	2.20	0.40
1:M:744:ALA:HA	1:M:747:LYS:HG2	2.04	0.40
1:N:278:PRO:HB2	1:O:338:GLN:NE2	2.36	0.40
1:N:343:GLY:O	1:N:344:GLU:HG2	2.21	0.40
1:N:794:LYS:HD2	1:O:788:ALA:HB1	2.03	0.40
1:O:58:TYR:CZ	1:O:153:PRO:HG2	2.56	0.40
1:O:382:LEU:O	1:P:396:GLY:HA3	2.22	0.40
1:P:228:HIS:CE1	1:P:268:LEU:HD22	2.56	0.40
1:P:761:ARG:HH12	1:Q:752:ALA:HA	1.86	0.40
1:Q:423:VAL:HG13	1:Q:452:ARG:HD3	2.03	0.40
1:Q:754:GLU:OE2	1:R:744:ALA:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:794:LYS:HD2	1:R:788:ALA:HB1	2.03	0.40
1:R:284:ILE:HD11	1:R:308:PHE:CZ	2.57	0.40
1:R:387:GLY:HA3	1:R:401:VAL:O	2.21	0.40
1:R:423:VAL:HG13	1:R:452:ARG:HD3	2.03	0.40
1:S:58:TYR:CZ	1:S:153:PRO:HG2	2.56	0.40
1:S:382:LEU:O	1:T:396:GLY:HA3	2.22	0.40
1:S:423:VAL:HG13	1:S:452:ARG:HD3	2.03	0.40
1:S:575:ILE:HD11	1:S:635:VAL:HG21	2.04	0.40
1:S:794:LYS:HD2	1:T:788:ALA:HB1	2.03	0.40
1:T:56:ARG:NH2	1:U:156:GLU:HA	2.32	0.40
1:T:58:TYR:CZ	1:T:153:PRO:HG2	2.56	0.40
1:T:59:CYS:HB2	1:T:107:LYS:O	2.21	0.40
1:T:714:MET:HA	1:T:717:GLU:OE1	2.20	0.40
1:U:20:ASP:HB3	1:U:23:SER:HB3	2.02	0.40
1:U:83:LEU:HB2	1:U:85:HIS:CD2	2.56	0.40
1:U:273:ILE:HB	1:U:309:PHE:CE1	2.57	0.40
1:U:591:PHE:CD1	1:U:598:ILE:HD11	2.56	0.40
1:U:772:TYR:CE1	1:V:770:LEU:HB3	2.55	0.40
1:V:169:LYS:O	1:V:172:GLN:HB2	2.21	0.40
1:V:303:LYS:HG2	1:V:304:GLY:H	1.86	0.40
1:W:59:CYS:HB2	1:W:107:LYS:O	2.21	0.40
1:W:284:ILE:HD11	1:W:308:PHE:CZ	2.57	0.40
1:W:542:ALA:HB3	1:W:639:ASP:H	1.86	0.40
1:W:700:GLU:HA	1:W:703:ARG:CB	2.51	0.40
1:X:273:ILE:HB	1:X:309:PHE:CE1	2.56	0.40
1:Y:228:HIS:CE1	1:Y:268:LEU:HD22	2.56	0.40
1:Y:273:ILE:HB	1:Y:309:PHE:CE1	2.56	0.40
1:Y:688:LEU:HG	1:Y:691:GLN:NE2	2.34	0.40
1:Y:754:GLU:OE2	1:Z:744:ALA:HB2	2.21	0.40
1:Z:382:LEU:O	1:a:396:GLY:HA3	2.22	0.40
1:Z:754:GLU:OE2	1:a:744:ALA:HB2	2.21	0.40
1:a:83:LEU:HB2	1:a:85:HIS:CD2	2.56	0.40
1:a:578:ARG:HB3	1:a:603:VAL:HA	2.03	0.40
1:a:753:ILE:HA	1:a:756:GLU:HG3	2.02	0.40
1:c:195:GLU:O	1:c:263:VAL:HG21	2.20	0.40
1:c:423:VAL:HG13	1:c:452:ARG:HD3	2.03	0.40
1:c:575:ILE:HD11	1:c:635:VAL:HG21	2.04	0.40
1:c:772:TYR:CE1	1:d:770:LEU:HB3	2.55	0.40
1:d:195:GLU:O	1:d:263:VAL:HG21	2.20	0.40
1:d:724:ALA:HB1	1:e:715:ALA:HA	2.02	0.40
1:d:761:ARG:HH12	1:e:752:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:734:ARG:HD3	1:e:734:ARG:HA	1.73	0.40
1:f:335:LYS:HG3	1:f:374:VAL:HG21	2.02	0.40
1:f:725:GLU:O	1:f:728:SER:OG	2.37	0.40
1:h:303:LYS:HG2	1:h:304:GLY:H	1.86	0.40
1:h:790:VAL:HB	1:i:785:GLN:OE1	2.21	0.40
1:i:83:LEU:HB2	1:i:85:HIS:CD2	2.56	0.40
1:i:591:PHE:CD1	1:i:598:ILE:HD11	2.56	0.40
1:k:761:ARG:HH12	1:l:752:ALA:HA	1.86	0.40
1:l:83:LEU:HB2	1:l:85:HIS:CD2	2.56	0.40
1:l:650:THR:O	1:l:654:LEU:HG	2.21	0.40
1:m:578:ARG:HB3	1:m:603:VAL:HA	2.03	0.40
1:A:273:ILE:HB	1:A:309:PHE:CE1	2.56	0.40
1:A:485:GLU:OE2	1:B:471:TYR:OH	2.38	0.40
1:A:578:ARG:HB3	1:A:603:VAL:HA	2.03	0.40
1:B:228:HIS:CE1	1:B:268:LEU:HD22	2.56	0.40
1:B:759:LEU:HA	1:B:759:LEU:HD23	1.90	0.40
1:C:273:ILE:HB	1:C:309:PHE:CE1	2.56	0.40
1:C:343:GLY:O	1:C:344:GLU:HG2	2.21	0.40
1:C:382:LEU:O	1:D:396:GLY:HA3	2.22	0.40
1:C:423:VAL:HG13	1:C:452:ARG:HD3	2.03	0.40
1:D:228:HIS:CE1	1:D:268:LEU:HD22	2.56	0.40
1:E:59:CYS:HB2	1:E:107:LYS:O	2.21	0.40
1:E:542:ALA:HB3	1:E:639:ASP:H	1.86	0.40
1:E:795:PHE:O	1:E:798:MET:HB3	2.22	0.40
1:F:387:GLY:HA3	1:F:401:VAL:O	2.21	0.40
1:F:650:THR:O	1:F:654:LEU:HG	2.21	0.40
1:G:278:PRO:HB2	1:H:338:GLN:NE2	2.36	0.40
1:G:423:VAL:HG13	1:G:452:ARG:HD3	2.03	0.40
1:G:542:ALA:HB3	1:G:639:ASP:H	1.86	0.40
1:H:542:ALA:HB3	1:H:639:ASP:H	1.86	0.40
1:H:744:ALA:HA	1:H:747:LYS:HG2	2.04	0.40
1:I:58:TYR:CZ	1:I:153:PRO:HG2	2.56	0.40
1:I:387:GLY:HA3	1:I:401:VAL:O	2.21	0.40
1:J:105:LEU:HD21	1:J:108:ASP:HB3	2.04	0.40
1:J:593:LYS:HD2	1:J:593:LYS:HA	1.91	0.40
1:L:382:LEU:O	1:M:396:GLY:HA3	2.22	0.40
1:L:663:GLU:O	1:L:666:THR:OG1	2.26	0.40
1:M:59:CYS:HB2	1:M:107:LYS:O	2.21	0.40
1:M:228:HIS:CE1	1:M:268:LEU:HD22	2.56	0.40
1:M:343:GLY:O	1:M:344:GLU:HG2	2.21	0.40
1:M:502:ALA:HB3	1:M:510:ALA:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:575:ILE:HD11	1:M:635:VAL:HG21	2.03	0.40
1:M:710:GLU:O	1:M:713:SER:HB2	2.21	0.40
1:M:790:VAL:HB	1:N:785:GLN:OE1	2.21	0.40
1:N:56:ARG:NH2	1:O:156:GLU:HA	2.32	0.40
1:N:284:ILE:HD11	1:N:308:PHE:CZ	2.57	0.40
1:O:284:ILE:HD11	1:O:308:PHE:CZ	2.57	0.40
1:O:335:LYS:HG3	1:O:374:VAL:HG21	2.02	0.40
1:O:665:THR:OG1	1:P:589:ASP:OD2	2.19	0.40
1:P:58:TYR:CZ	1:P:153:PRO:HG2	2.56	0.40
1:P:113:GLN:NE2	1:P:151:TYR:H	2.20	0.40
1:P:575:ILE:HD11	1:P:635:VAL:HG21	2.04	0.40
1:Q:621:LYS:HA	1:Q:621:LYS:HD2	1.94	0.40
1:R:744:ALA:HA	1:R:747:LYS:HG2	2.04	0.40
1:R:754:GLU:OE2	1:S:744:ALA:HB2	2.21	0.40
1:T:83:LEU:HB2	1:T:85:HIS:CD2	2.56	0.40
1:T:278:PRO:HB2	1:U:338:GLN:NE2	2.36	0.40
1:T:284:ILE:HD11	1:T:308:PHE:CZ	2.57	0.40
1:T:734:ARG:HA	1:T:734:ARG:HD3	1.73	0.40
1:U:278:PRO:HB2	1:V:338:GLN:NE2	2.36	0.40
1:V:284:ILE:HD11	1:V:308:PHE:CZ	2.57	0.40
1:V:502:ALA:HB3	1:V:510:ALA:HB3	2.02	0.40
1:W:278:PRO:HB2	1:X:338:GLN:NE2	2.36	0.40
1:W:753:ILE:HA	1:W:756:GLU:HG3	2.02	0.40
1:X:228:HIS:CE1	1:X:268:LEU:HD22	2.56	0.40
1:X:423:VAL:HG13	1:X:452:ARG:HD3	2.03	0.40
1:X:502:ALA:HB3	1:X:510:ALA:HB3	2.03	0.40
1:X:621:LYS:HD2	1:X:621:LYS:HA	1.94	0.40
1:Y:382:LEU:O	1:Z:396:GLY:HA3	2.22	0.40
1:Y:575:ILE:HD11	1:Y:635:VAL:HG21	2.04	0.40
1:Z:284:ILE:HD11	1:Z:308:PHE:CZ	2.57	0.40
1:Z:578:ARG:HB3	1:Z:603:VAL:HA	2.03	0.40
1:a:303:LYS:HG2	1:a:304:GLY:H	1.86	0.40
1:a:453:ASN:OD1	1:a:455:THR:OG1	2.24	0.40
1:a:542:ALA:HB3	1:a:639:ASP:H	1.86	0.40
1:a:710:GLU:O	1:a:713:SER:HB2	2.21	0.40
1:a:773:ALA:HA	1:a:776:GLN:HG2	2.02	0.40
1:b:575:ILE:HD11	1:b:635:VAL:HG21	2.03	0.40
1:b:578:ARG:HB3	1:b:603:VAL:HA	2.04	0.40
1:b:737:GLY:O	1:b:740:SER:OG	2.28	0.40
1:c:56:ARG:NH2	1:d:156:GLU:HA	2.32	0.40
1:c:700:GLU:HA	1:c:703:ARG:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:754:GLU:OE2	1:d:744:ALA:HB2	2.21	0.40
1:d:20:ASP:HB3	1:d:23:SER:HB3	2.02	0.40
1:d:105:LEU:HD21	1:d:108:ASP:HB3	2.04	0.40
1:d:575:ILE:HD11	1:d:635:VAL:HG21	2.04	0.40
1:d:700:GLU:HA	1:d:703:ARG:CB	2.51	0.40
1:e:273:ILE:HB	1:e:309:PHE:CE1	2.56	0.40
1:e:761:ARG:HH12	1:f:752:ALA:HA	1.86	0.40
1:e:795:PHE:O	1:e:798:MET:HB3	2.22	0.40
1:f:59:CYS:HB2	1:f:107:LYS:O	2.21	0.40
1:f:754:GLU:OE2	1:g:744:ALA:HB2	2.21	0.40
1:g:335:LYS:HG3	1:g:374:VAL:HG21	2.02	0.40
1:g:790:VAL:HB	1:h:785:GLN:OE1	2.21	0.40
1:h:502:ALA:HB3	1:h:510:ALA:HB3	2.02	0.40
1:h:744:ALA:HA	1:h:747:LYS:HG2	2.04	0.40
1:i:169:LYS:O	1:i:172:GLN:HB2	2.21	0.40
1:i:423:VAL:HG13	1:i:452:ARG:HD3	2.03	0.40
1:i:795:PHE:O	1:i:798:MET:HB3	2.22	0.40
1:j:278:PRO:HB2	1:k:338:GLN:NE2	2.36	0.40
1:j:754:GLU:OE2	1:k:744:ALA:HB2	2.21	0.40
1:k:575:ILE:HD11	1:k:635:VAL:HG21	2.04	0.40
1:l:105:LEU:HD21	1:l:108:ASP:HB3	2.04	0.40
1:l:575:ILE:HD11	1:l:635:VAL:HG21	2.03	0.40
1:A:700:GLU:HA	1:A:703:ARG:CB	2.51	0.40
1:B:113:GLN:NE2	1:B:151:TYR:H	2.20	0.40
1:B:278:PRO:HB2	1:C:338:GLN:NE2	2.36	0.40
1:B:795:PHE:O	1:B:798:MET:HB3	2.22	0.40
1:D:591:PHE:CD1	1:D:598:ILE:HD11	2.56	0.40
1:D:665:THR:OG1	1:E:589:ASP:OD2	2.19	0.40
1:E:346:GLU:H	1:E:346:GLU:CD	2.30	0.40
1:E:382:LEU:O	1:F:396:GLY:HA3	2.22	0.40
1:E:423:VAL:HG13	1:E:452:ARG:HD3	2.03	0.40
1:H:591:PHE:CD1	1:H:598:ILE:HD11	2.56	0.40
1:I:744:ALA:HA	1:I:747:LYS:HG2	2.04	0.40
1:K:58:TYR:CZ	1:K:153:PRO:HG2	2.56	0.40
1:K:59:CYS:HB2	1:K:107:LYS:O	2.21	0.40
1:K:382:LEU:O	1:L:396:GLY:HA3	2.22	0.40
1:L:284:ILE:HD11	1:L:308:PHE:CZ	2.57	0.40
1:L:591:PHE:CD1	1:L:598:ILE:HD11	2.56	0.40
1:L:597:ARG:NH2	1:M:585:SER:HB3	2.32	0.40
1:L:744:ALA:HA	1:L:747:LYS:HG2	2.03	0.40
1:M:578:ARG:HB3	1:M:603:VAL:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:761:ARG:HH12	1:N:752:ALA:HA	1.86	0.40
1:M:795:PHE:O	1:M:798:MET:HB3	2.22	0.40
1:O:59:CYS:HB2	1:O:107:LYS:O	2.21	0.40
1:O:591:PHE:CD1	1:O:598:ILE:HD11	2.56	0.40
1:Q:744:ALA:HA	1:Q:747:LYS:HG2	2.04	0.40
1:Q:795:PHE:O	1:Q:798:MET:HB3	2.22	0.40
1:R:382:LEU:O	1:S:396:GLY:HA3	2.22	0.40
1:S:55:PRO:CD	1:T:86:ALA:HB1	2.42	0.40
1:S:113:GLN:NE2	1:S:151:TYR:H	2.20	0.40
1:S:343:GLY:O	1:S:344:GLU:HG2	2.21	0.40
1:S:754:GLU:OE2	1:T:744:ALA:HB2	2.21	0.40
1:T:55:PRO:CD	1:U:86:ALA:HB1	2.42	0.40
1:T:710:GLU:O	1:T:713:SER:HB2	2.21	0.40
1:U:55:PRO:CD	1:V:86:ALA:HB1	2.42	0.40
1:U:105:LEU:HD21	1:U:108:ASP:HB3	2.04	0.40
1:U:113:GLN:NE2	1:U:151:TYR:H	2.20	0.40
1:V:105:LEU:HD21	1:V:108:ASP:HB3	2.04	0.40
1:V:724:ALA:HB1	1:W:715:ALA:HA	2.02	0.40
1:W:575:ILE:HD11	1:W:635:VAL:HG21	2.04	0.40
1:X:113:GLN:NE2	1:X:151:TYR:H	2.20	0.40
1:X:790:VAL:HB	1:Y:785:GLN:OE1	2.21	0.40
1:Z:56:ARG:NH2	1:a:156:GLU:HA	2.32	0.40
1:Z:169:LYS:O	1:Z:172:GLN:HB2	2.21	0.40
1:Z:278:PRO:HB2	1:a:338:GLN:NE2	2.36	0.40
1:Z:765:VAL:O	1:Z:768:MET:HG3	2.19	0.40
1:a:790:VAL:HB	1:b:785:GLN:OE1	2.21	0.40
1:a:794:LYS:HD2	1:b:788:ALA:HB1	2.03	0.40
1:b:346:GLU:H	1:b:346:GLU:CD	2.30	0.40
1:c:105:LEU:HD21	1:c:108:ASP:HB3	2.04	0.40
1:c:278:PRO:HB2	1:d:338:GLN:NE2	2.36	0.40
1:d:346:GLU:H	1:d:346:GLU:CD	2.30	0.40
1:e:83:LEU:HB2	1:e:85:HIS:CD2	2.56	0.40
1:e:423:VAL:HG13	1:e:452:ARG:HD3	2.03	0.40
1:f:83:LEU:HB2	1:f:85:HIS:CD2	2.56	0.40
1:f:169:LYS:O	1:f:172:GLN:HB2	2.21	0.40
1:f:273:ILE:HB	1:f:309:PHE:CE1	2.56	0.40
1:f:650:THR:O	1:f:654:LEU:HG	2.21	0.40
1:g:113:GLN:NE2	1:g:151:TYR:H	2.20	0.40
1:g:725:GLU:O	1:g:728:SER:OG	2.38	0.40
1:h:59:CYS:HB2	1:h:107:LYS:O	2.21	0.40
1:h:542:ALA:HB3	1:h:639:ASP:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:228:HIS:CE1	1:i:268:LEU:HD22	2.56	0.40
1:i:303:LYS:HG2	1:i:304:GLY:H	1.86	0.40
1:i:542:ALA:HB3	1:i:639:ASP:H	1.86	0.40
1:j:56:ARG:NH2	1:k:156:GLU:HA	2.32	0.40
1:j:237:ASP:OD1	1:j:241:VAL:N	2.44	0.40
1:k:113:GLN:NE2	1:k:151:TYR:H	2.20	0.40
1:k:273:ILE:HB	1:k:309:PHE:CE1	2.56	0.40
1:k:278:PRO:HB2	1:l:338:GLN:NE2	2.36	0.40
1:l:195:GLU:O	1:l:263:VAL:HG21	2.20	0.40
1:l:326:LEU:HD12	1:l:330:GLN:O	2.22	0.40
1:l:710:GLU:O	1:l:713:SER:HB2	2.21	0.40
1:l:744:ALA:HA	1:l:747:LYS:HG2	2.04	0.40
1:m:59:CYS:HB2	1:m:107:LYS:O	2.21	0.40
1:A:710:GLU:O	1:A:713:SER:HB2	2.21	0.40
1:A:714:MET:HA	1:A:717:GLU:OE1	2.20	0.40
1:A:794:LYS:HD2	1:B:788:ALA:HB1	2.03	0.40
1:C:83:LEU:HB2	1:C:85:HIS:CD2	2.56	0.40
1:C:725:GLU:O	1:C:728:SER:OG	2.38	0.40
1:D:780:GLU:HG3	1:D:783:LYS:HZ3	1.86	0.40
1:E:326:LEU:HD12	1:E:330:GLN:O	2.22	0.40
1:F:59:CYS:HB2	1:F:107:LYS:O	2.21	0.40
1:F:83:LEU:HB2	1:F:85:HIS:CD2	2.56	0.40
1:F:754:GLU:OE2	1:G:744:ALA:HB2	2.21	0.40
1:G:335:LYS:HG2	1:G:356:CYS:SG	2.62	0.40
1:G:346:GLU:H	1:G:346:GLU:CD	2.29	0.40
1:G:710:GLU:O	1:G:713:SER:HB2	2.21	0.40
1:G:754:GLU:OE2	1:H:744:ALA:HB2	2.20	0.40
1:H:326:LEU:HD12	1:H:330:GLN:O	2.22	0.40
1:H:335:LYS:HG2	1:H:356:CYS:SG	2.62	0.40
1:H:742:LEU:HB3	1:I:734:ARG:CZ	2.50	0.40
1:H:795:PHE:O	1:H:798:MET:HB3	2.22	0.40
1:I:113:GLN:NE2	1:I:151:TYR:H	2.20	0.40
1:I:284:ILE:HD11	1:I:308:PHE:CZ	2.57	0.40
1:I:542:ALA:HB3	1:I:639:ASP:H	1.86	0.40
1:I:710:GLU:O	1:I:713:SER:HB2	2.21	0.40
1:I:795:PHE:O	1:I:798:MET:HB3	2.22	0.40
1:J:735:ILE:HD12	1:K:726:ALA:HB3	2.02	0.40
1:J:790:VAL:HB	1:K:785:GLN:OE1	2.21	0.40
1:K:326:LEU:HD12	1:K:330:GLN:O	2.22	0.40
1:K:790:VAL:HB	1:L:785:GLN:OE1	2.21	0.40
1:L:113:GLN:NE2	1:L:151:TYR:H	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:794:LYS:HD2	1:M:788:ALA:HB1	2.03	0.40
1:M:273:ILE:HB	1:M:309:PHE:CE1	2.57	0.40
1:M:453:ASN:OD1	1:M:455:THR:OG1	2.24	0.40
1:M:704:LYS:HE3	1:M:704:LYS:HB3	1.92	0.40
1:N:147:GLY:HA3	1:N:148:PRO:HA	1.94	0.40
1:O:423:VAL:HG13	1:O:452:ARG:HD3	2.03	0.40
1:O:790:VAL:HB	1:P:785:GLN:OE1	2.21	0.40
1:P:506:LYS:HZ3	1:P:525:ASP:HB2	1.86	0.40
1:P:794:LYS:HD2	1:Q:788:ALA:HB1	2.03	0.40
1:Q:700:GLU:HA	1:Q:703:ARG:CB	2.51	0.40
1:R:55:PRO:CD	1:S:86:ALA:HB1	2.42	0.40
1:S:169:LYS:O	1:S:172:GLN:HB2	2.21	0.40
1:S:326:LEU:HD12	1:S:330:GLN:O	2.22	0.40
1:S:753:ILE:HA	1:S:756:GLU:HG3	2.02	0.40
1:U:326:LEU:HD12	1:U:330:GLN:O	2.22	0.40
1:U:744:ALA:HA	1:U:747:LYS:HG2	2.04	0.40
1:V:55:PRO:CD	1:W:86:ALA:HB1	2.42	0.40
1:V:83:LEU:HB2	1:V:85:HIS:CD2	2.56	0.40
1:V:542:ALA:HB3	1:V:639:ASP:H	1.86	0.40
1:V:591:PHE:CD1	1:V:598:ILE:HD11	2.56	0.40
1:V:761:ARG:HH12	1:W:752:ALA:HA	1.86	0.40
1:W:335:LYS:HG2	1:W:356:CYS:SG	2.62	0.40
1:W:343:GLY:O	1:W:344:GLU:HG2	2.21	0.40
1:X:335:LYS:HG2	1:X:356:CYS:SG	2.62	0.40
1:Y:113:GLN:NE2	1:Y:151:TYR:H	2.20	0.40
1:Y:284:ILE:HD11	1:Y:308:PHE:CZ	2.56	0.40
1:Y:761:ARG:HH12	1:Z:752:ALA:HA	1.86	0.40
1:Z:575:ILE:HD11	1:Z:635:VAL:HG21	2.04	0.40
1:a:591:PHE:CD1	1:a:598:ILE:HD11	2.56	0.40
1:a:735:ILE:HD12	1:b:726:ALA:HB3	2.02	0.40
1:b:326:LEU:HD12	1:b:330:GLN:O	2.22	0.40
1:c:303:LYS:HG2	1:c:304:GLY:H	1.86	0.40
1:c:343:GLY:O	1:c:344:GLU:HG2	2.21	0.40
1:c:387:GLY:HA3	1:c:401:VAL:O	2.21	0.40
1:d:326:LEU:HD12	1:d:330:GLN:O	2.22	0.40
1:d:382:LEU:O	1:e:396:GLY:HA3	2.22	0.40
1:e:105:LEU:HD21	1:e:108:ASP:HB3	2.04	0.40
1:e:195:GLU:O	1:e:263:VAL:HG21	2.20	0.40
1:e:575:ILE:HD11	1:e:635:VAL:HG21	2.04	0.40
1:f:335:LYS:HG2	1:f:356:CYS:SG	2.62	0.40
1:f:578:ARG:HB3	1:f:603:VAL:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:700:GLU:HA	1:f:703:ARG:CB	2.51	0.40
1:f:759:LEU:HA	1:f:759:LEU:HD23	1.90	0.40
1:f:795:PHE:O	1:f:798:MET:HB3	2.22	0.40
1:g:20:ASP:HB3	1:g:23:SER:HB3	2.02	0.40
1:g:58:TYR:CZ	1:g:153:PRO:HG2	2.56	0.40
1:g:284:ILE:HD11	1:g:308:PHE:CZ	2.57	0.40
1:g:382:LEU:O	1:h:396:GLY:HA3	2.22	0.40
1:g:502:ALA:HB3	1:g:510:ALA:HB3	2.03	0.40
1:h:578:ARG:HB3	1:h:603:VAL:HA	2.03	0.40
1:h:710:GLU:O	1:h:713:SER:HB2	2.21	0.40
1:h:734:ARG:HD3	1:h:734:ARG:HA	1.73	0.40
1:i:326:LEU:HD12	1:i:330:GLN:O	2.22	0.40
1:i:700:GLU:HA	1:i:703:ARG:CB	2.51	0.40
1:i:790:VAL:HB	1:j:785:GLN:OE1	2.21	0.40
1:j:228:HIS:CE1	1:j:268:LEU:HD22	2.56	0.40
1:k:228:HIS:CE1	1:k:268:LEU:HD22	2.56	0.40
1:k:326:LEU:HD12	1:k:330:GLN:O	2.22	0.40
1:k:700:GLU:HA	1:k:703:ARG:CB	2.51	0.40
1:k:794:LYS:HD2	1:l:788:ALA:HB1	2.03	0.40
1:l:790:VAL:HB	1:m:785:GLN:OE1	2.21	0.40
1:l:795:PHE:O	1:l:798:MET:HB3	2.22	0.40
1:m:744:ALA:HA	1:m:747:LYS:HG2	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	19/861 (2%)	18 (95%)	1 (5%)	0	100	100
1	C	623/861 (72%)	595 (96%)	26 (4%)	2 (0%)	36	72
1	D	552/861 (64%)	528 (96%)	22 (4%)	2 (0%)	30	67

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	305/861 (35%)	289 (95%)	15 (5%)	1 (0%)	36	72
1	F	49/861 (6%)	48 (98%)	1 (2%)	0	100	100
1	G	776/861 (90%)	740 (95%)	34 (4%)	2 (0%)	36	72
1	H	713/861 (83%)	684 (96%)	28 (4%)	1 (0%)	48	83
1	I	403/861 (47%)	383 (95%)	20 (5%)	0	100	100
1	L	43/861 (5%)	39 (91%)	4 (9%)	0	100	100
1	N	37/861 (4%)	33 (89%)	3 (8%)	1 (3%)	4	25
1	P	186/861 (22%)	180 (97%)	5 (3%)	1 (0%)	24	63
1	U	245/861 (28%)	235 (96%)	9 (4%)	1 (0%)	30	67
1	V	51/861 (6%)	50 (98%)	1 (2%)	0	100	100
1	X	297/861 (34%)	284 (96%)	11 (4%)	2 (1%)	18	56
1	c	413/861 (48%)	398 (96%)	13 (3%)	2 (0%)	24	63
1	d	228/861 (26%)	217 (95%)	11 (5%)	0	100	100
1	i	613/861 (71%)	586 (96%)	25 (4%)	2 (0%)	36	72
1	j	776/861 (90%)	741 (96%)	33 (4%)	2 (0%)	36	72
1	k	776/861 (90%)	742 (96%)	32 (4%)	2 (0%)	36	72
1	l	776/861 (90%)	741 (96%)	33 (4%)	2 (0%)	36	72
1	m	776/861 (90%)	740 (95%)	34 (4%)	2 (0%)	36	72
All	All	8657/18081 (48%)	8271 (96%)	361 (4%)	25 (0%)	37	72

All (25) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	620	PRO
1	D	620	PRO
1	G	620	PRO
1	H	620	PRO
1	P	620	PRO
1	U	620	PRO
1	X	620	PRO
1	c	620	PRO
1	i	620	PRO
1	j	620	PRO
1	k	620	PRO
1	l	620	PRO
1	m	620	PRO

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Mol	Chain	Res	Type
1	C	505	PRO
1	D	505	PRO
1	E	505	PRO
1	G	505	PRO
1	N	505	PRO
1	X	505	PRO
1	c	505	PRO
1	i	505	PRO
1	j	505	PRO
1	k	505	PRO
1	l	505	PRO
1	m	505	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.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	657/727 (90%)	657 (100%)	0	100	100
1	B	657/727 (90%)	657 (100%)	0	100	100
1	C	657/727 (90%)	657 (100%)	0	100	100
1	D	657/727 (90%)	657 (100%)	0	100	100
1	E	657/727 (90%)	657 (100%)	0	100	100
1	F	657/727 (90%)	657 (100%)	0	100	100
1	G	657/727 (90%)	657 (100%)	0	100	100
1	H	657/727 (90%)	657 (100%)	0	100	100
1	I	657/727 (90%)	657 (100%)	0	100	100
1	J	657/727 (90%)	657 (100%)	0	100	100
1	K	657/727 (90%)	657 (100%)	0	100	100
1	L	657/727 (90%)	657 (100%)	0	100	100
1	M	657/727 (90%)	657 (100%)	0	100	100
1	N	657/727 (90%)	657 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	O	657/727 (90%)	657 (100%)	0	100	100
1	P	657/727 (90%)	657 (100%)	0	100	100
1	Q	657/727 (90%)	657 (100%)	0	100	100
1	R	657/727 (90%)	657 (100%)	0	100	100
1	S	657/727 (90%)	657 (100%)	0	100	100
1	T	657/727 (90%)	657 (100%)	0	100	100
1	U	657/727 (90%)	657 (100%)	0	100	100
1	V	657/727 (90%)	657 (100%)	0	100	100
1	W	657/727 (90%)	657 (100%)	0	100	100
1	X	657/727 (90%)	657 (100%)	0	100	100
1	Y	657/727 (90%)	657 (100%)	0	100	100
1	Z	657/727 (90%)	657 (100%)	0	100	100
1	a	657/727 (90%)	657 (100%)	0	100	100
1	b	657/727 (90%)	657 (100%)	0	100	100
1	c	657/727 (90%)	657 (100%)	0	100	100
1	d	657/727 (90%)	657 (100%)	0	100	100
1	e	657/727 (90%)	657 (100%)	0	100	100
1	f	657/727 (90%)	657 (100%)	0	100	100
1	g	657/727 (90%)	657 (100%)	0	100	100
1	h	657/727 (90%)	657 (100%)	0	100	100
1	i	657/727 (90%)	657 (100%)	0	100	100
1	j	657/727 (90%)	657 (100%)	0	100	100
1	k	657/727 (90%)	657 (100%)	0	100	100
1	l	657/727 (90%)	657 (100%)	0	100	100
1	m	657/727 (90%)	657 (100%)	0	100	100
All	All	25623/28353 (90%)	25623 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (373) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN

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Mol	Chain	Res	Type
1	A	113	GLN
1	A	295	GLN
1	A	321	GLN
1	A	631	ASN
1	A	641	GLN
1	A	655	GLN
1	A	669	GLN
1	A	691	GLN
1	A	749	GLN
1	B	113	GLN
1	B	295	GLN
1	B	321	GLN
1	B	641	GLN
1	B	655	GLN
1	B	669	GLN
1	B	682	GLN
1	B	691	GLN
1	B	749	GLN
1	C	40	ASN
1	C	113	GLN
1	C	295	GLN
1	C	641	GLN
1	C	655	GLN
1	C	669	GLN
1	C	682	GLN
1	C	691	GLN
1	C	749	GLN
1	D	40	ASN
1	D	113	GLN
1	D	295	GLN
1	D	321	GLN
1	D	631	ASN
1	D	641	GLN
1	D	655	GLN
1	D	691	GLN
1	D	749	GLN
1	E	113	GLN
1	E	295	GLN
1	E	321	GLN
1	E	641	GLN
1	E	655	GLN
1	E	669	GLN

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Mol	Chain	Res	Type
1	E	682	GLN
1	E	691	GLN
1	E	749	GLN
1	F	40	ASN
1	F	113	GLN
1	F	295	GLN
1	F	321	GLN
1	F	641	GLN
1	F	655	GLN
1	F	669	GLN
1	F	691	GLN
1	F	749	GLN
1	G	113	GLN
1	G	295	GLN
1	G	321	GLN
1	G	631	ASN
1	G	641	GLN
1	G	655	GLN
1	G	669	GLN
1	G	691	GLN
1	G	749	GLN
1	H	40	ASN
1	H	113	GLN
1	H	295	GLN
1	H	321	GLN
1	H	631	ASN
1	H	641	GLN
1	H	655	GLN
1	H	669	GLN
1	H	691	GLN
1	H	749	GLN
1	I	40	ASN
1	I	113	GLN
1	I	295	GLN
1	I	321	GLN
1	I	631	ASN
1	I	641	GLN
1	I	655	GLN
1	I	669	GLN
1	I	682	GLN
1	I	691	GLN
1	I	749	GLN

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Mol	Chain	Res	Type
1	J	113	GLN
1	J	295	GLN
1	J	321	GLN
1	J	631	ASN
1	J	641	GLN
1	J	655	GLN
1	J	691	GLN
1	J	749	GLN
1	K	113	GLN
1	K	295	GLN
1	K	321	GLN
1	K	538	GLN
1	K	631	ASN
1	K	641	GLN
1	K	655	GLN
1	K	669	GLN
1	K	691	GLN
1	K	749	GLN
1	L	113	GLN
1	L	295	GLN
1	L	321	GLN
1	L	631	ASN
1	L	641	GLN
1	L	655	GLN
1	L	669	GLN
1	L	691	GLN
1	L	749	GLN
1	M	113	GLN
1	M	295	GLN
1	M	641	GLN
1	M	655	GLN
1	M	669	GLN
1	M	682	GLN
1	M	691	GLN
1	M	749	GLN
1	N	40	ASN
1	N	113	GLN
1	N	295	GLN
1	N	321	GLN
1	N	631	ASN
1	N	641	GLN
1	N	655	GLN

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Mol	Chain	Res	Type
1	N	682	GLN
1	N	691	GLN
1	N	749	GLN
1	O	40	ASN
1	O	113	GLN
1	O	295	GLN
1	O	321	GLN
1	O	631	ASN
1	O	641	GLN
1	O	655	GLN
1	O	669	GLN
1	O	691	GLN
1	O	749	GLN
1	P	113	GLN
1	P	295	GLN
1	P	321	GLN
1	P	631	ASN
1	P	641	GLN
1	P	655	GLN
1	P	669	GLN
1	P	682	GLN
1	P	691	GLN
1	P	749	GLN
1	Q	113	GLN
1	Q	295	GLN
1	Q	321	GLN
1	Q	641	GLN
1	Q	655	GLN
1	Q	669	GLN
1	Q	682	GLN
1	Q	691	GLN
1	Q	749	GLN
1	R	113	GLN
1	R	295	GLN
1	R	321	GLN
1	R	631	ASN
1	R	641	GLN
1	R	655	GLN
1	R	669	GLN
1	R	691	GLN
1	R	749	GLN
1	S	40	ASN

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Mol	Chain	Res	Type
1	S	113	GLN
1	S	295	GLN
1	S	321	GLN
1	S	631	ASN
1	S	641	GLN
1	S	655	GLN
1	S	669	GLN
1	S	691	GLN
1	S	749	GLN
1	T	40	ASN
1	T	113	GLN
1	T	295	GLN
1	T	641	GLN
1	T	655	GLN
1	T	691	GLN
1	T	749	GLN
1	U	40	ASN
1	U	113	GLN
1	U	295	GLN
1	U	321	GLN
1	U	631	ASN
1	U	641	GLN
1	U	655	GLN
1	U	669	GLN
1	U	682	GLN
1	U	691	GLN
1	U	749	GLN
1	V	40	ASN
1	V	113	GLN
1	V	295	GLN
1	V	321	GLN
1	V	631	ASN
1	V	641	GLN
1	V	655	GLN
1	V	669	GLN
1	V	691	GLN
1	V	749	GLN
1	W	40	ASN
1	W	113	GLN
1	W	295	GLN
1	W	321	GLN
1	W	538	GLN

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Mol	Chain	Res	Type
1	W	631	ASN
1	W	641	GLN
1	W	655	GLN
1	W	669	GLN
1	W	691	GLN
1	W	749	GLN
1	X	40	ASN
1	X	113	GLN
1	X	295	GLN
1	X	631	ASN
1	X	641	GLN
1	X	655	GLN
1	X	669	GLN
1	X	691	GLN
1	X	749	GLN
1	Y	113	GLN
1	Y	295	GLN
1	Y	321	GLN
1	Y	631	ASN
1	Y	641	GLN
1	Y	655	GLN
1	Y	669	GLN
1	Y	682	GLN
1	Y	691	GLN
1	Y	749	GLN
1	Z	40	ASN
1	Z	113	GLN
1	Z	295	GLN
1	Z	321	GLN
1	Z	631	ASN
1	Z	641	GLN
1	Z	655	GLN
1	Z	669	GLN
1	Z	682	GLN
1	Z	691	GLN
1	Z	749	GLN
1	a	40	ASN
1	a	113	GLN
1	a	295	GLN
1	a	321	GLN
1	a	631	ASN
1	a	641	GLN

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Mol	Chain	Res	Type
1	a	655	GLN
1	a	669	GLN
1	a	682	GLN
1	a	691	GLN
1	a	749	GLN
1	b	113	GLN
1	b	295	GLN
1	b	321	GLN
1	b	631	ASN
1	b	641	GLN
1	b	655	GLN
1	b	669	GLN
1	b	682	GLN
1	b	691	GLN
1	b	749	GLN
1	c	113	GLN
1	c	295	GLN
1	c	631	ASN
1	c	641	GLN
1	c	655	GLN
1	c	669	GLN
1	c	682	GLN
1	c	691	GLN
1	c	749	GLN
1	d	113	GLN
1	d	295	GLN
1	d	321	GLN
1	d	641	GLN
1	d	655	GLN
1	d	669	GLN
1	d	691	GLN
1	d	749	GLN
1	e	40	ASN
1	e	113	GLN
1	e	295	GLN
1	e	538	GLN
1	e	631	ASN
1	e	641	GLN
1	e	655	GLN
1	e	669	GLN
1	e	682	GLN
1	e	691	GLN

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Mol	Chain	Res	Type
1	e	749	GLN
1	f	40	ASN
1	f	113	GLN
1	f	295	GLN
1	f	321	GLN
1	f	631	ASN
1	f	641	GLN
1	f	655	GLN
1	f	669	GLN
1	f	682	GLN
1	f	691	GLN
1	f	749	GLN
1	g	113	GLN
1	g	295	GLN
1	g	321	GLN
1	g	631	ASN
1	g	641	GLN
1	g	655	GLN
1	g	669	GLN
1	g	682	GLN
1	g	691	GLN
1	g	749	GLN
1	h	40	ASN
1	h	113	GLN
1	h	295	GLN
1	h	321	GLN
1	h	631	ASN
1	h	641	GLN
1	h	655	GLN
1	h	669	GLN
1	h	691	GLN
1	h	749	GLN
1	i	40	ASN
1	i	113	GLN
1	i	295	GLN
1	i	631	ASN
1	i	641	GLN
1	i	655	GLN
1	i	669	GLN
1	i	691	GLN
1	i	749	GLN
1	j	40	ASN

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Mol	Chain	Res	Type
1	j	113	GLN
1	j	295	GLN
1	j	321	GLN
1	j	631	ASN
1	j	641	GLN
1	j	655	GLN
1	j	669	GLN
1	j	682	GLN
1	j	691	GLN
1	j	749	GLN
1	k	40	ASN
1	k	113	GLN
1	k	295	GLN
1	k	321	GLN
1	k	631	ASN
1	k	641	GLN
1	k	655	GLN
1	k	669	GLN
1	k	691	GLN
1	k	749	GLN
1	l	113	GLN
1	l	295	GLN
1	l	641	GLN
1	l	655	GLN
1	l	669	GLN
1	l	691	GLN
1	l	749	GLN
1	m	113	GLN
1	m	295	GLN
1	m	321	GLN
1	m	631	ASN
1	m	641	GLN
1	m	655	GLN
1	m	669	GLN
1	m	691	GLN
1	m	749	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

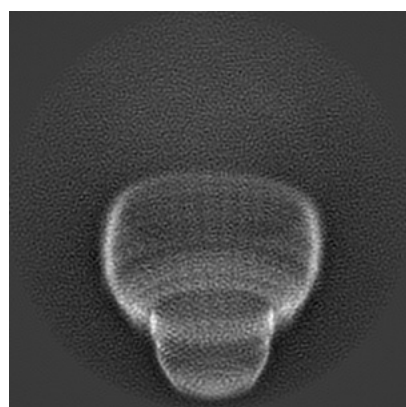
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-13482. These allow visual inspection of the internal detail of the map and identification of artifacts.

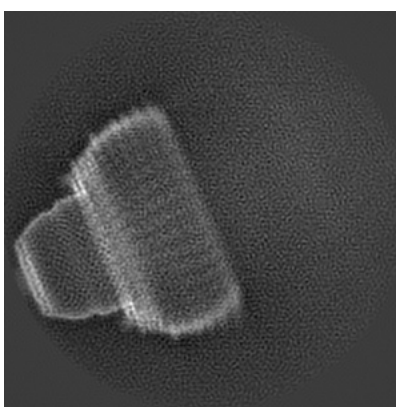
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

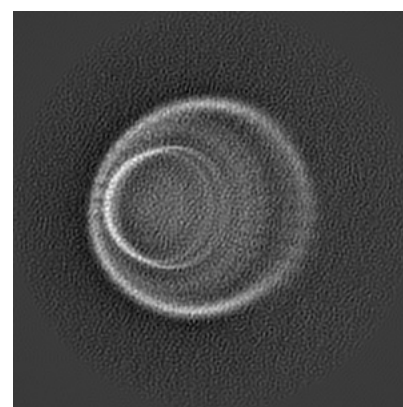
6.1.1 Primary map



X



Y

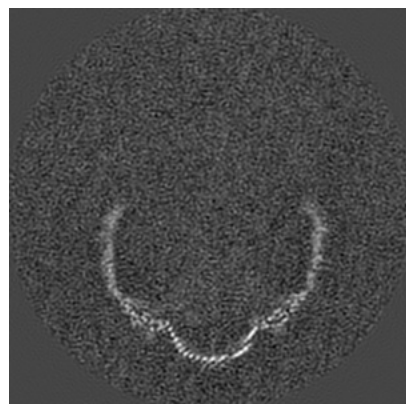


Z

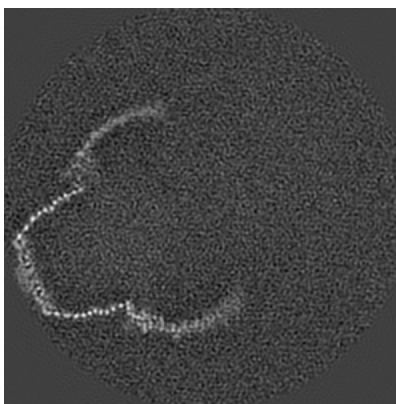
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

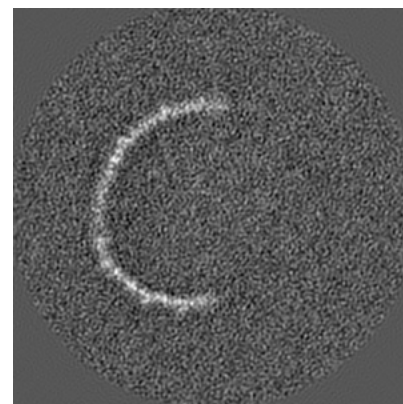
6.2.1 Primary map



X Index: 100



Y Index: 100

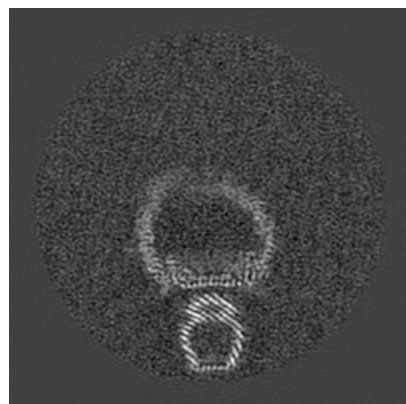


Z Index: 100

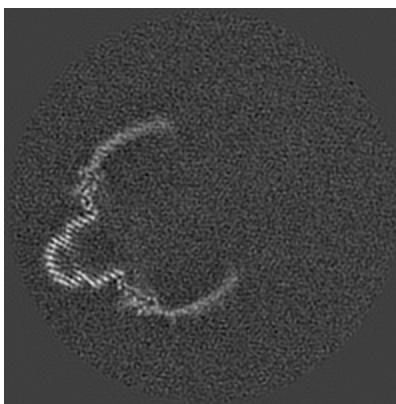
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

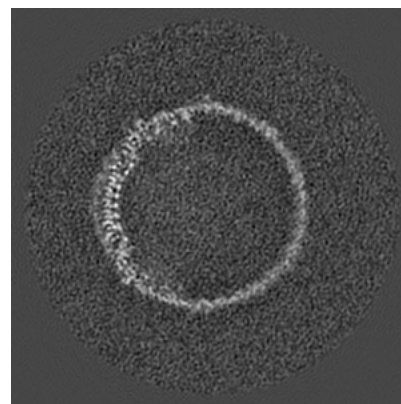
6.3.1 Primary map



X Index: 49



Y Index: 127

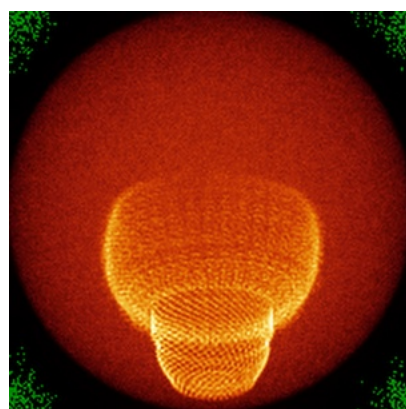


Z Index: 61

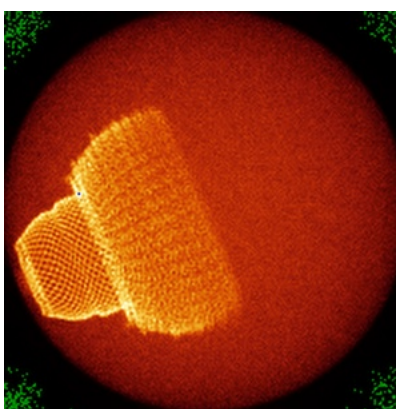
The images above show the largest variance slices of the map in three orthogonal directions.

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

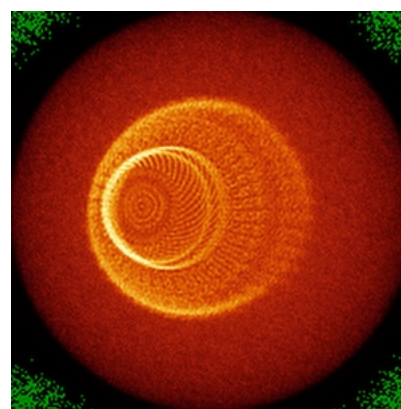
6.4.1 Primary map



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

This section was not generated.

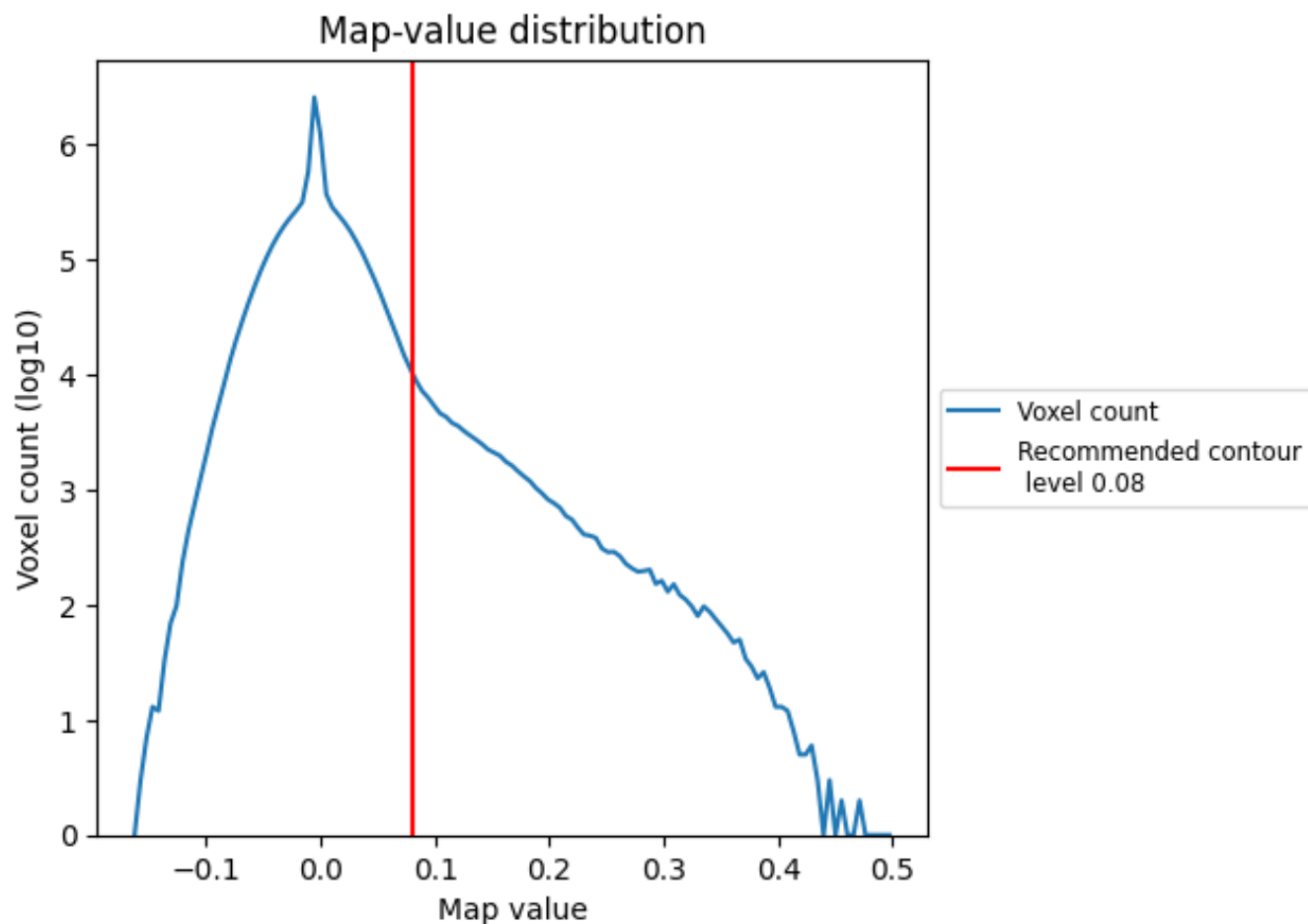
6.6 Mask visualisation

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

7 Map analysis [i](#)

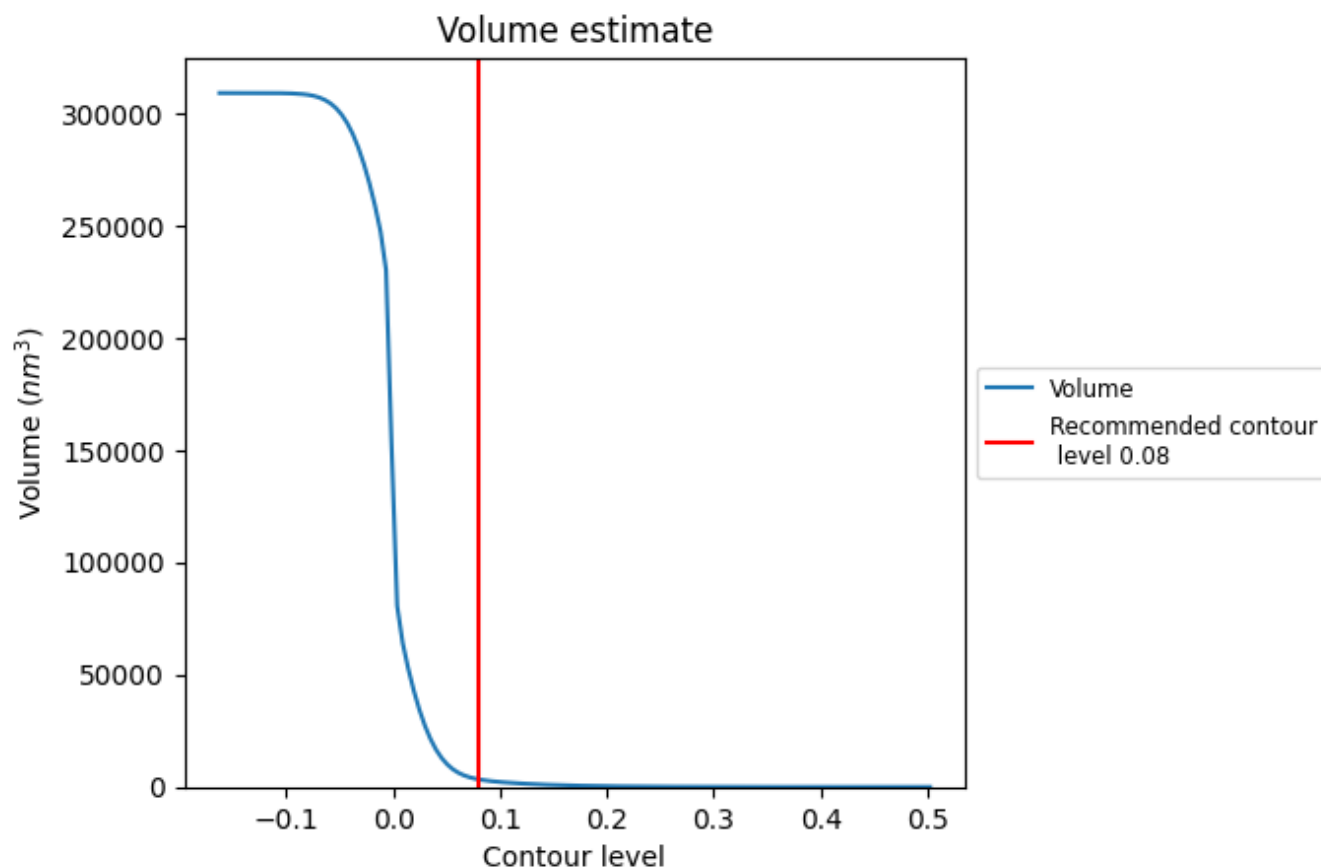
This section contains the results of statistical analysis of the map.

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.

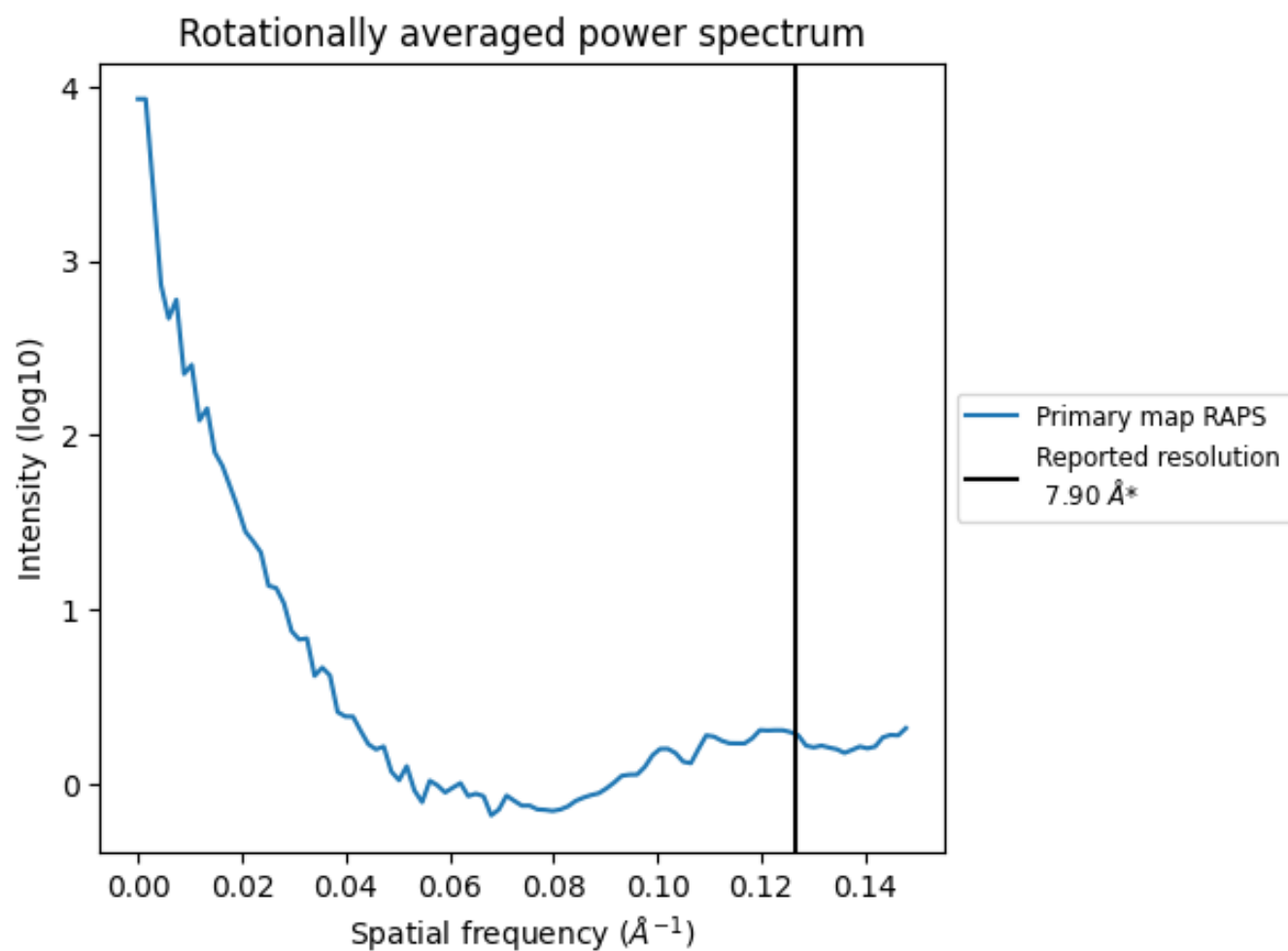
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3387 nm^3 ; this corresponds to an approximate mass of 3060 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 0.127 Å⁻¹

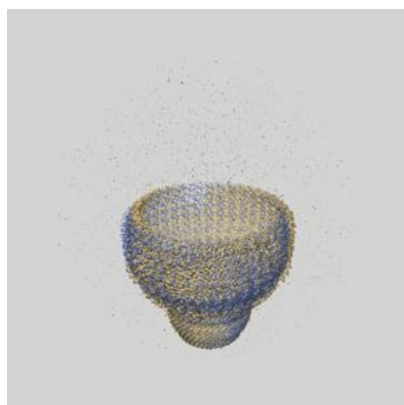
8 Fourier-Shell correlation

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

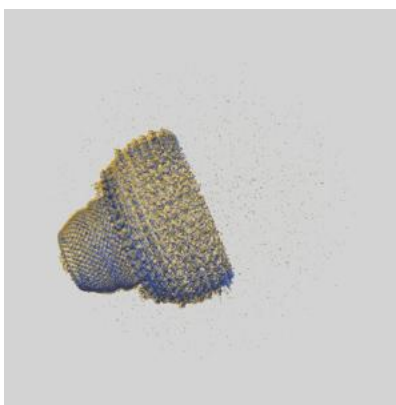
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-13482 and PDB model 7PKY. Per-residue inclusion information can be found in section [3](#) on page [8](#).

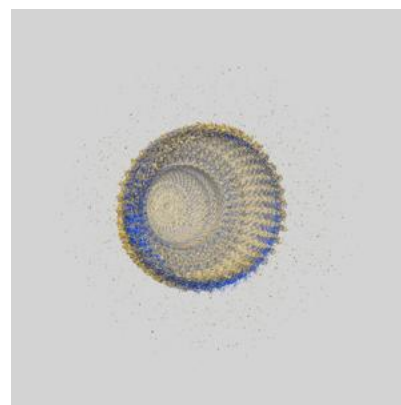
9.1 Map-model overlay [i](#)



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.08 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](#)



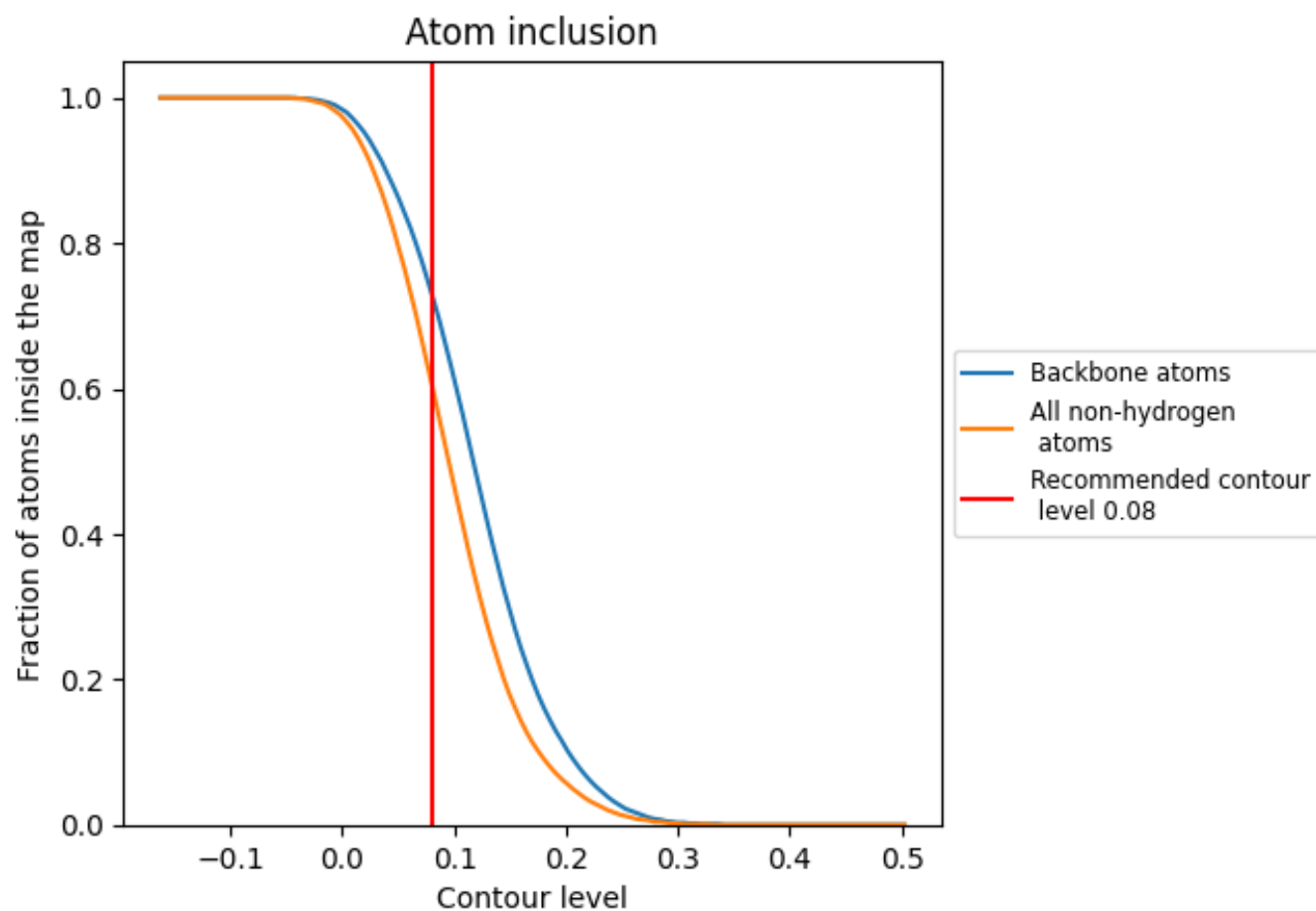
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.08).

9.4 Atom inclusion [i](#)



At the recommended contour level, 73% of all backbone atoms, 61% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.08) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6060	 0.0980
A	 0.7110	 0.1220
B	 0.6950	 0.1150
C	 0.6860	 0.1120
D	 0.6780	 0.1150
E	 0.6700	 0.1150
F	 0.6850	 0.1270
G	 0.6870	 0.1180
H	 0.6700	 0.1130
I	 0.6380	 0.1070
J	 0.6090	 0.1050
K	 0.5730	 0.1000
L	 0.5600	 0.1080
M	 0.5630	 0.0950
N	 0.5580	 0.0960
O	 0.5580	 0.0930
P	 0.5450	 0.0900
Q	 0.5210	 0.0800
R	 0.5120	 0.0740
S	 0.5250	 0.0750
T	 0.5560	 0.0760
U	 0.6040	 0.0780
V	 0.6780	 0.0910
W	 0.7240	 0.1070
X	 0.6800	 0.1060
Y	 0.5930	 0.0890
Z	 0.5210	 0.0780
a	 0.4760	 0.0770
b	 0.4510	 0.0730
c	 0.4570	 0.0820
d	 0.5290	 0.0860
e	 0.5890	 0.0980
f	 0.6160	 0.0960
g	 0.6220	 0.1020
h	 0.6330	 0.1030



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Chain	Atom inclusion	Q-score
i	 0.6250	 0.0980
j	 0.6330	 0.1020
k	 0.6320	 0.1000
l	 0.6690	 0.0970
m	 0.6900	 0.1100