



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 23, 2014 – 02:07 PM EDT

PDB ID : 4V60
Title : The structure of rat liver vault at 3.5 angstrom resolution
Authors : Kato, K.; Zhou, Y.; Tanaka, H.; Yao, M.; Yamashita, E.; Yoshimura, M.;
Tsukihara, T.
Deposited on : 2008-10-24
Resolution : 3.50 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

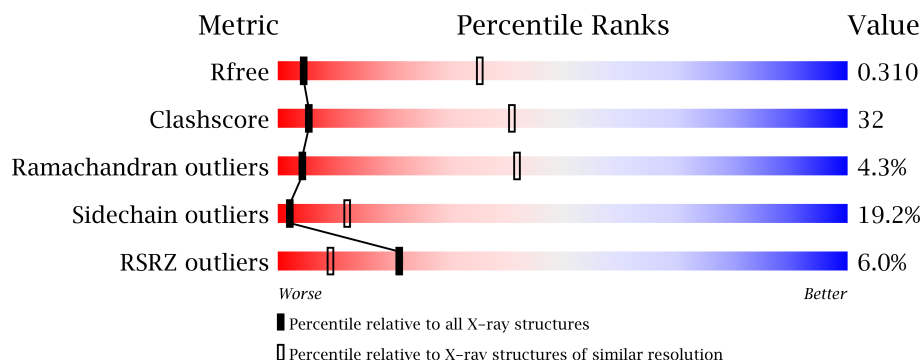
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : **FAILED**
EDS : stable23489
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23489

1 Overall quality at a glance

The reported resolution of this entry is 3.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	1243 (3.70-3.30)
Clashscore	79885	1039 (3.66-3.34)
Ramachandran outliers	78287	1000 (3.66-3.34)
Sidechain outliers	78261	1000 (3.66-3.34)
RSRZ outliers	66119	1243 (3.70-3.30)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	861	
1	B	861	
1	C	861	
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	
1	N	861	

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Mol	Chain	Length	Quality of chain
1	O	861	
1	P	861	
1	Q	861	
1	R	861	
1	S	861	
1	T	861	
1	U	861	
1	V	861	
1	W	861	
1	X	861	
1	Y	861	
1	Z	861	
1	a	861	
1	b	861	
1	c	861	
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

There is only 1 type of molecule in this entry. The entry contains 241956 atoms, of which 0 are hydrogen and 0 are deuterium.

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

- Molecule 1 is a protein called Major vault protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	B	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	C	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	D	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	E	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	F	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	G	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	H	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	I	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	J	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	K	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	L	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	M	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	N	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	O	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	P	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	R	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	S	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	T	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	U	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	V	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	W	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	X	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	Y	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	Z	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	a	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	b	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	c	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	d	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	e	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	f	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	g	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	h	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	i	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	j	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	k	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			

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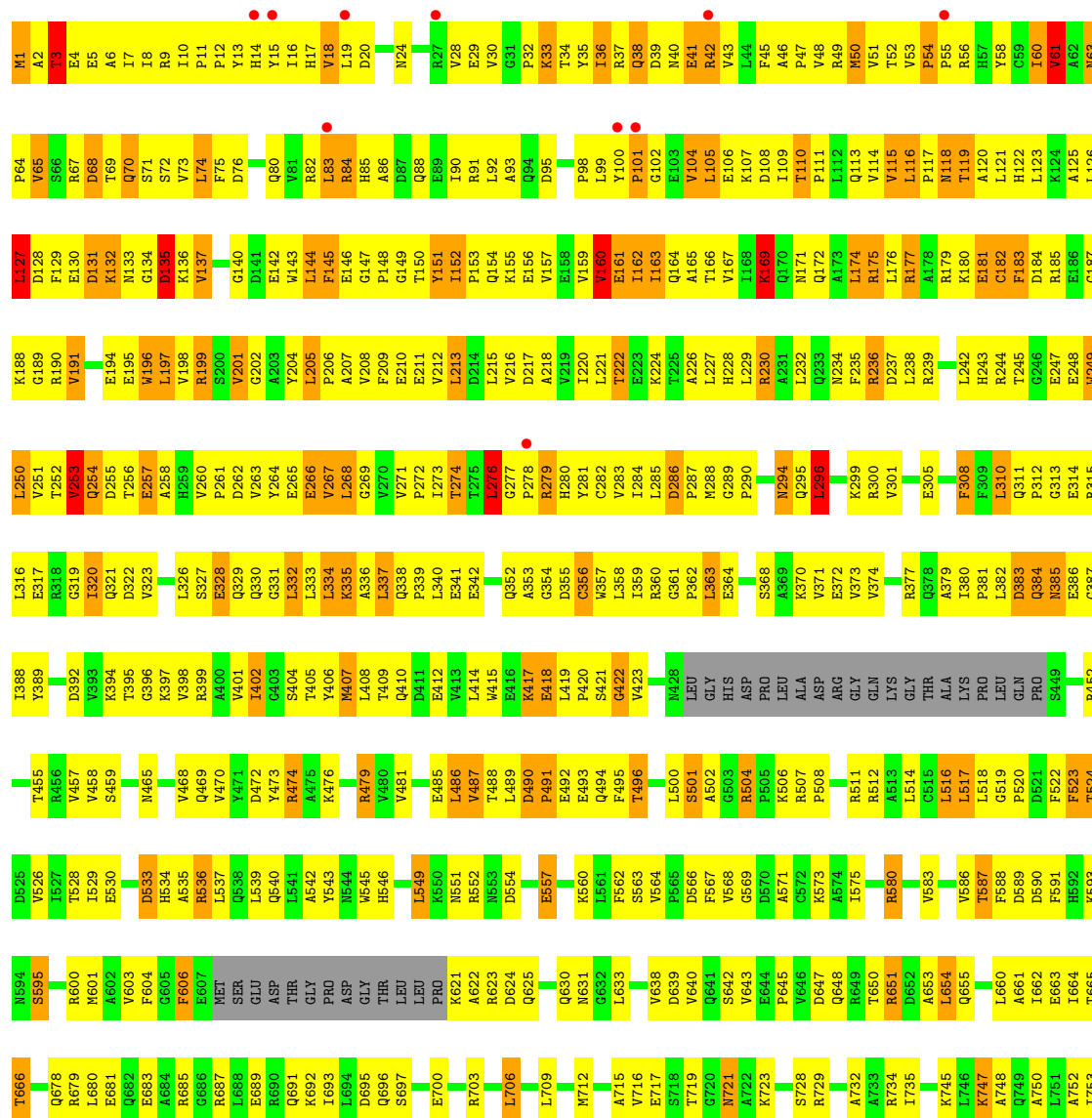
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	l	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	m	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			

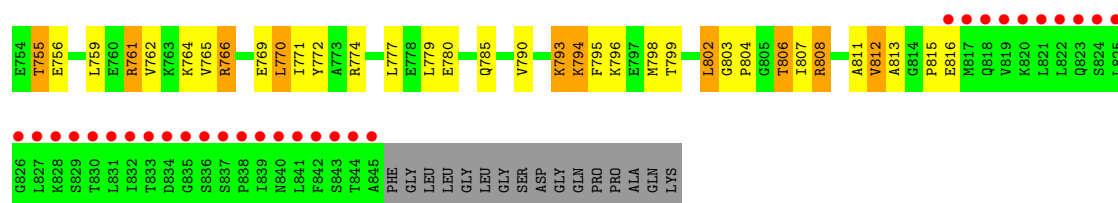
3 Residue-property plots

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

• Molecule 1: Major vault protein

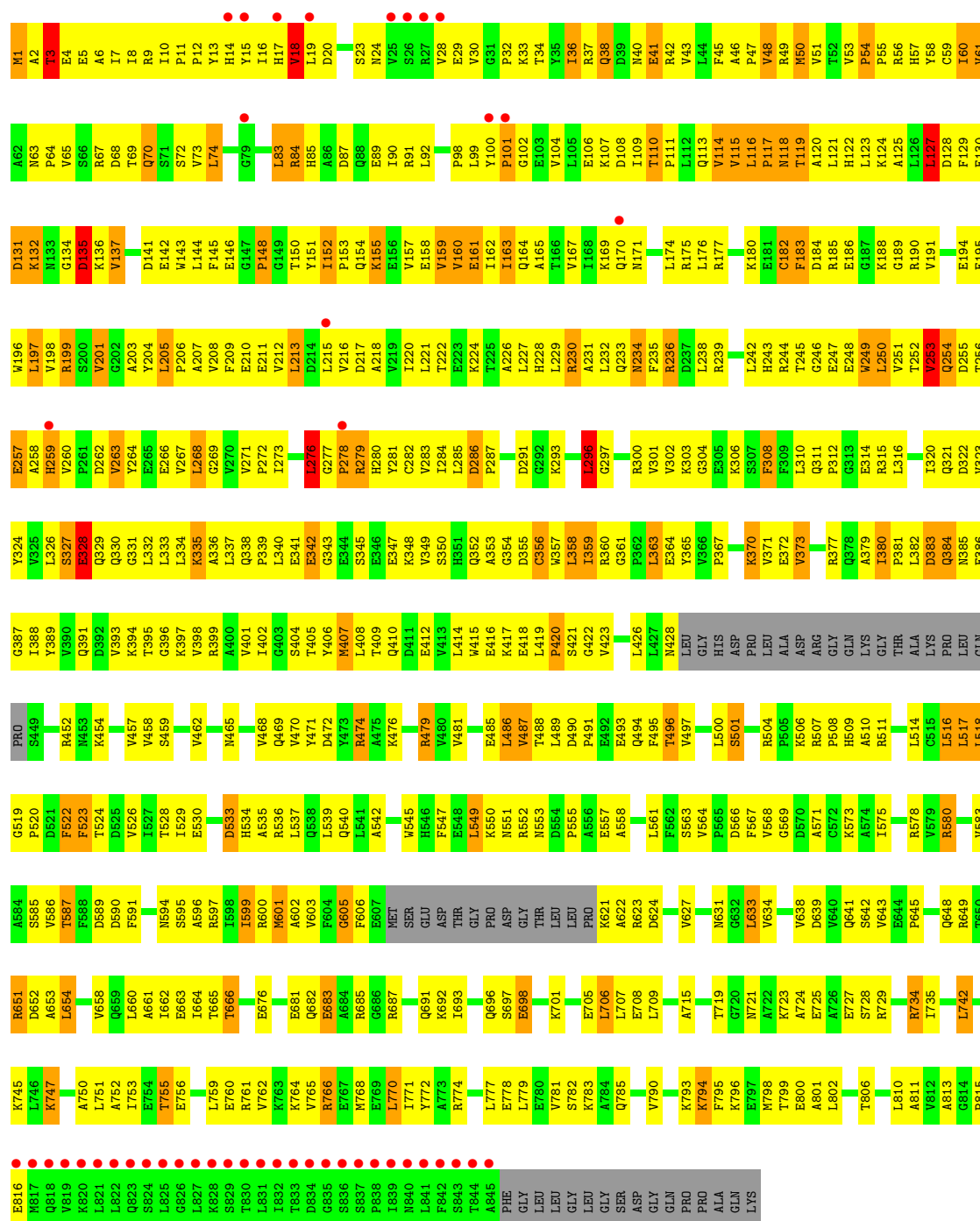
Chain A: 





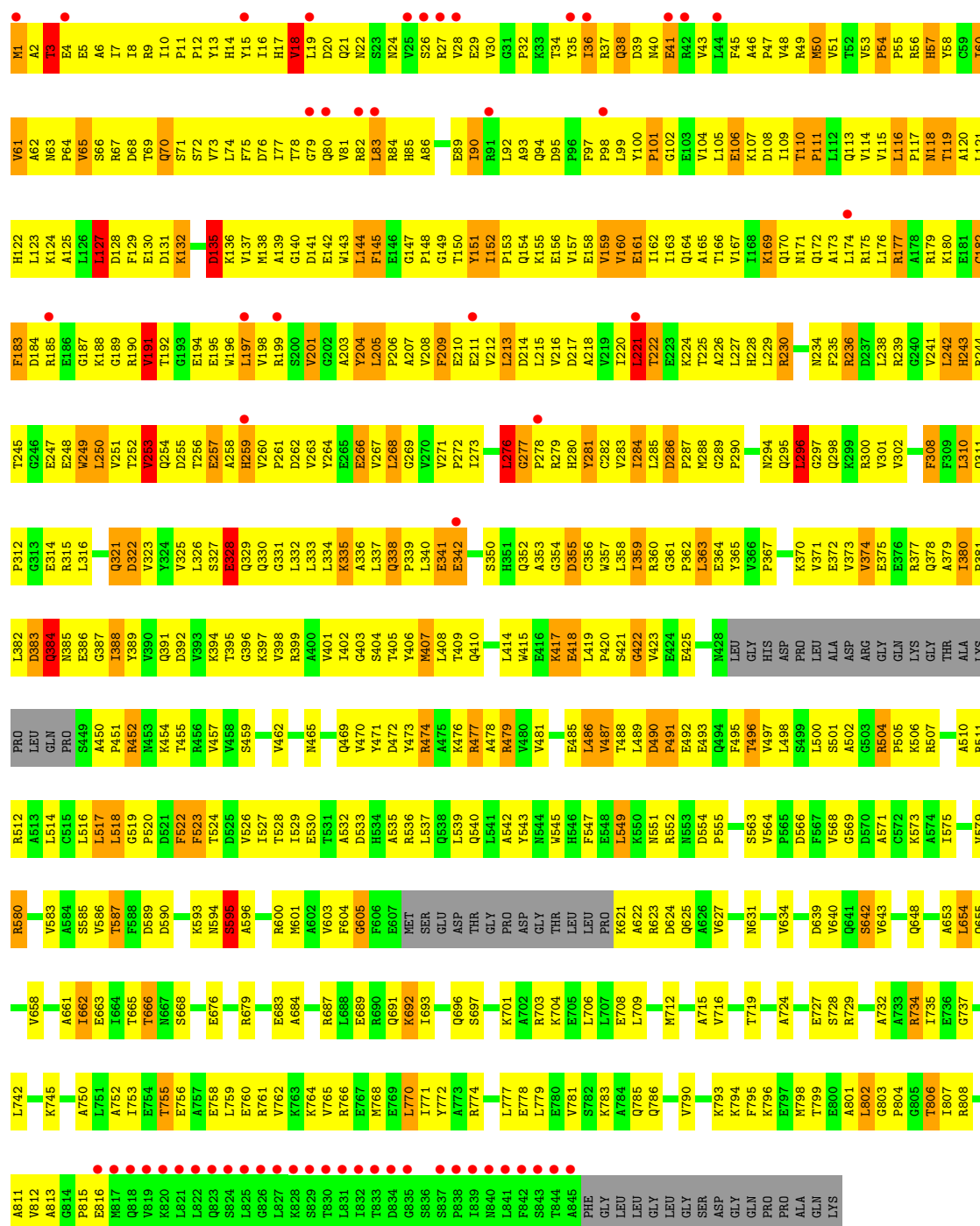
Molecule 1: Major vault protein

Chain B:



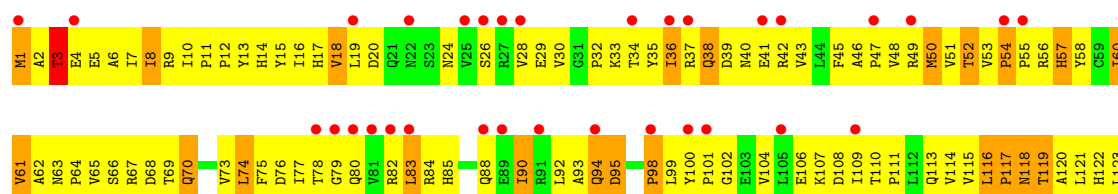
Chain C:

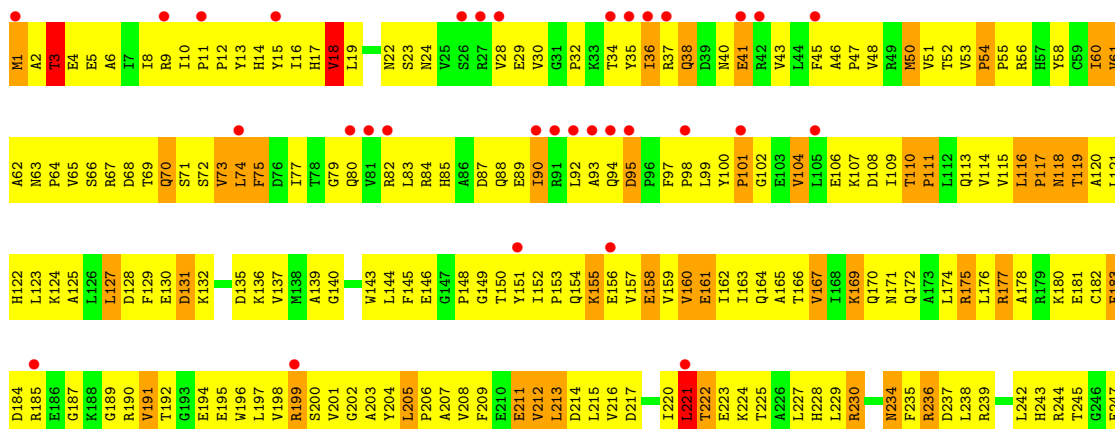


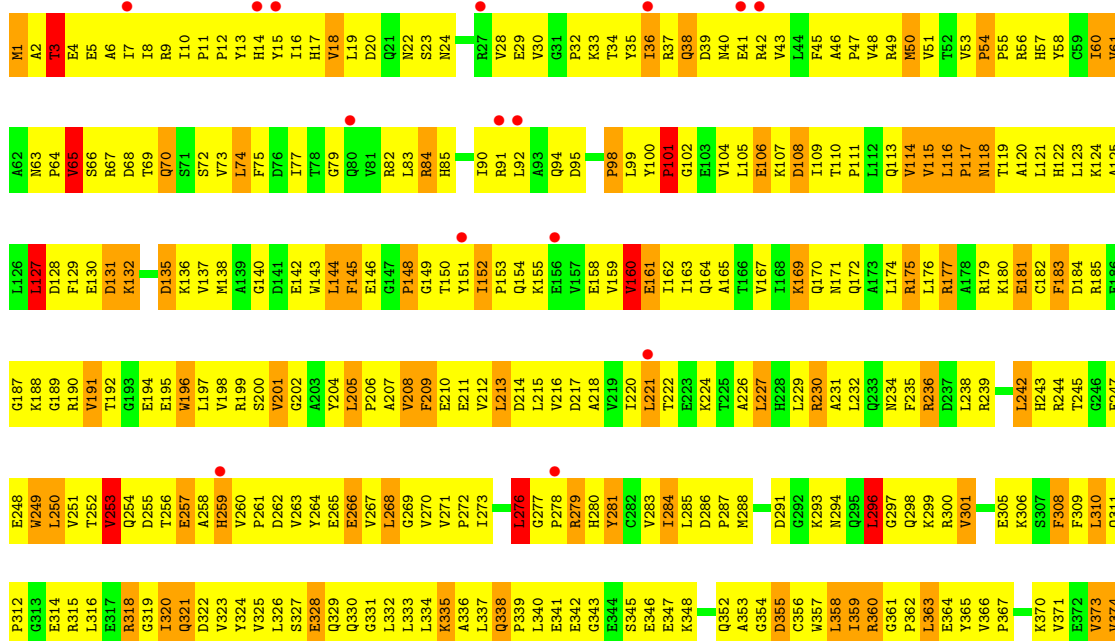


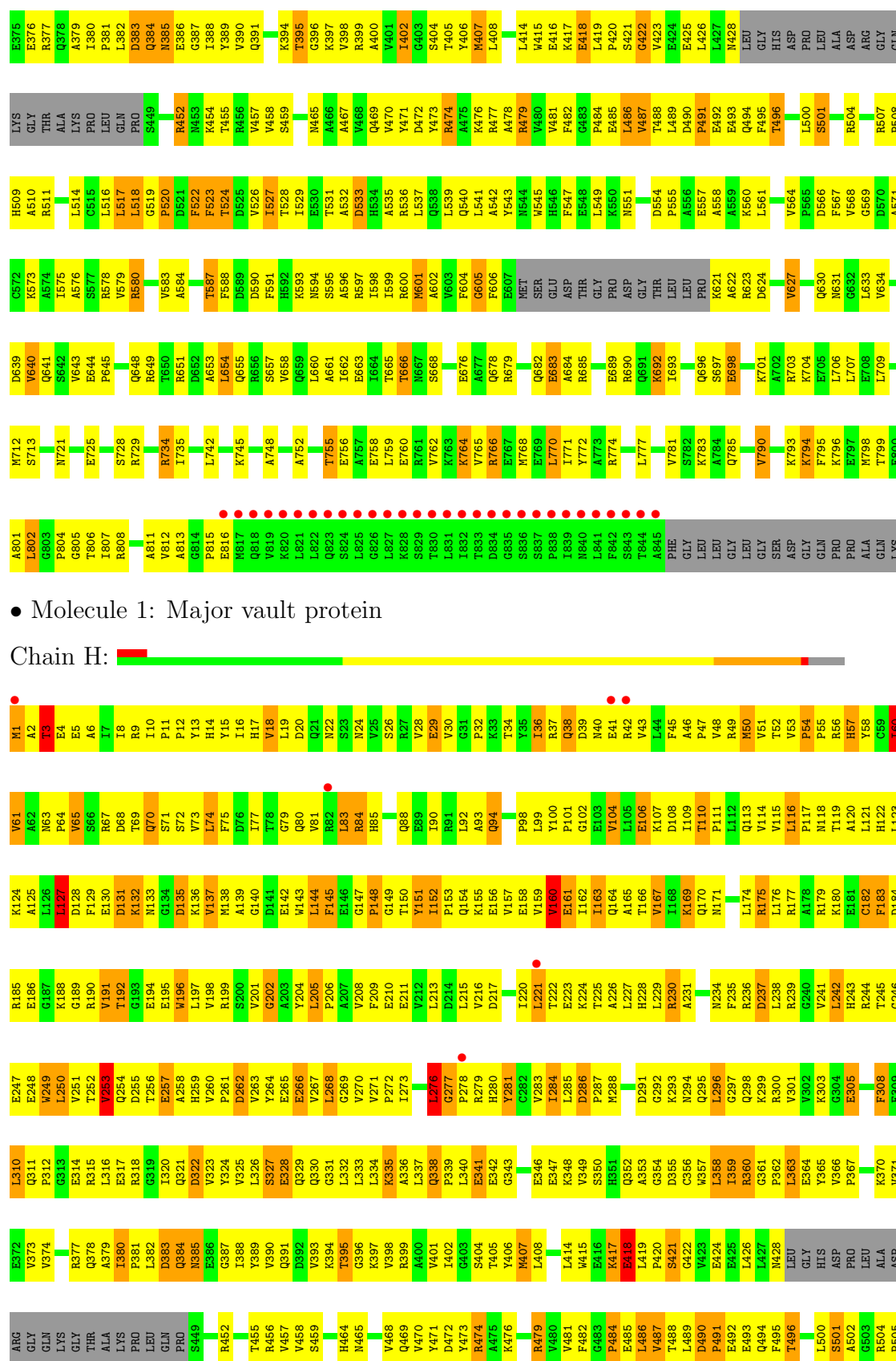
• Molecule 1: Major vault protein

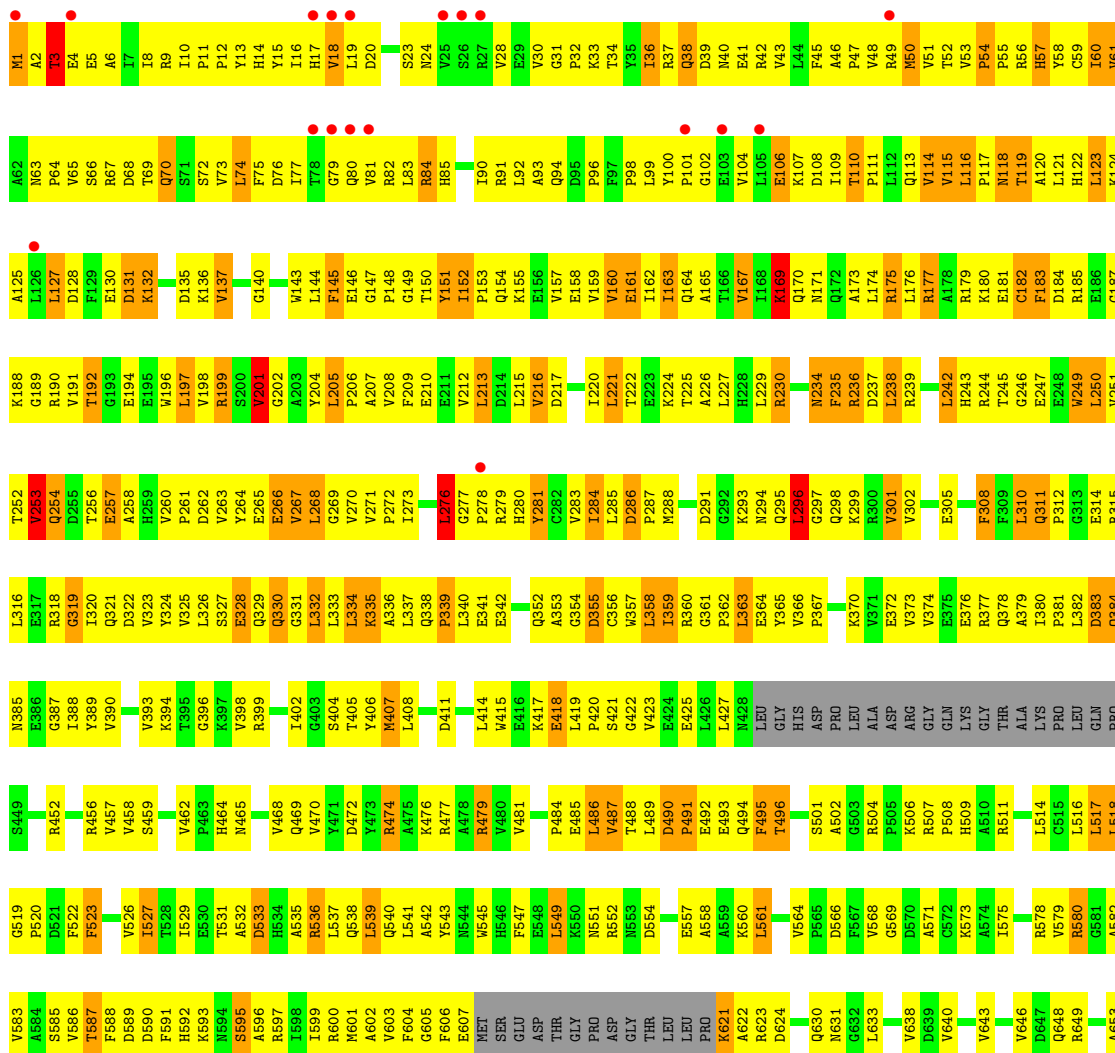
Chain E:

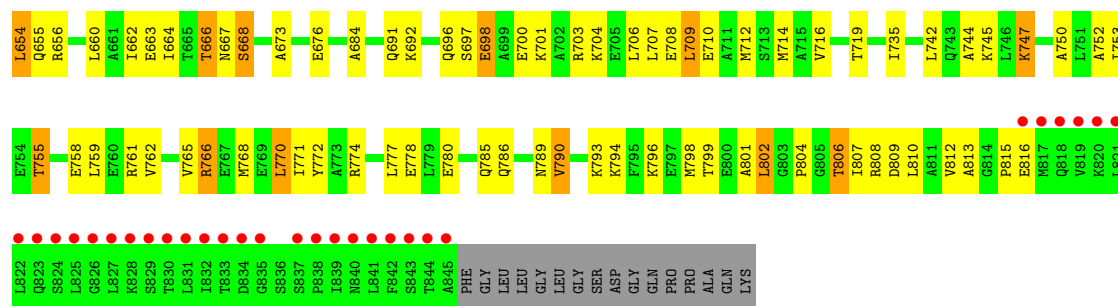






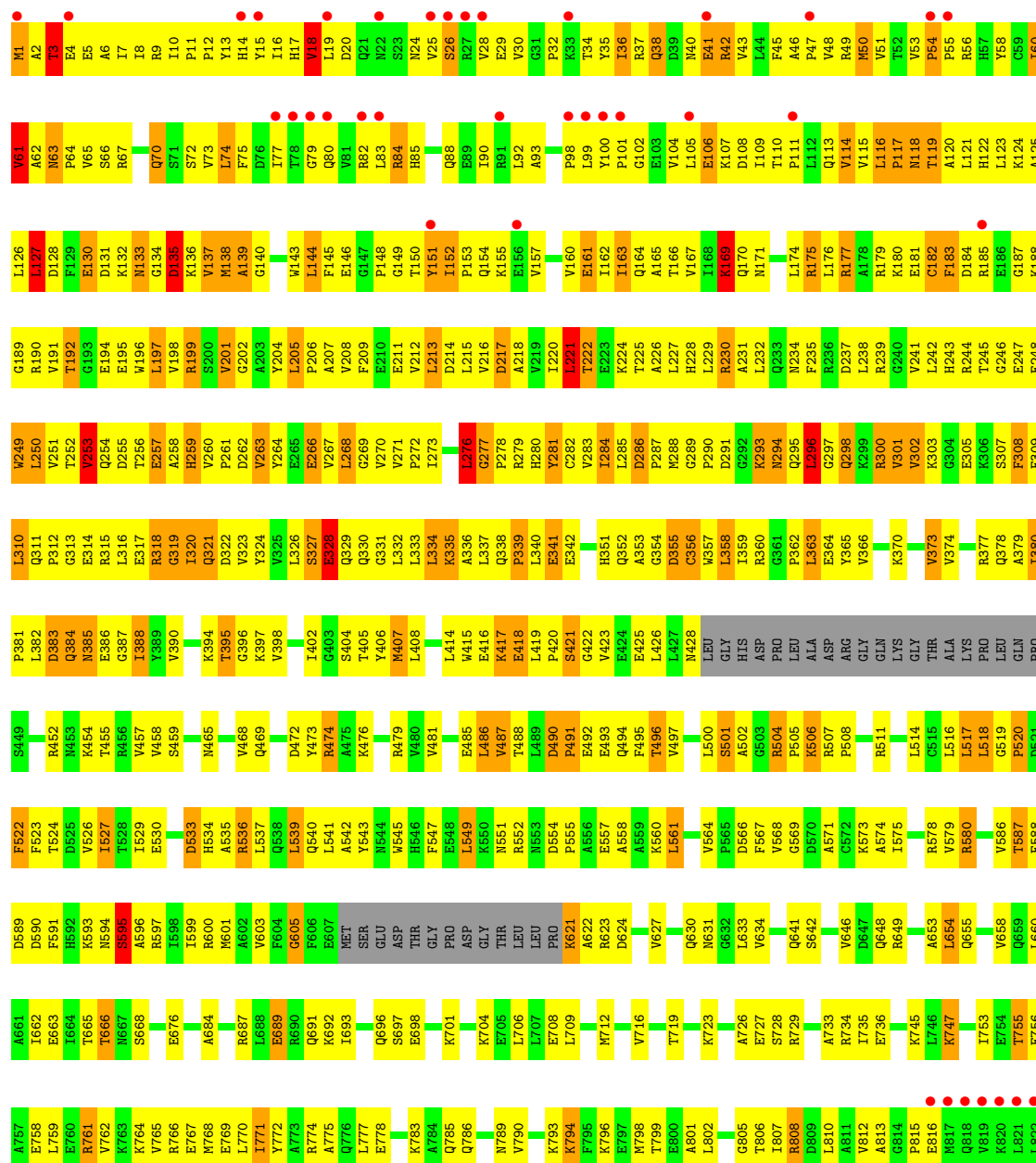


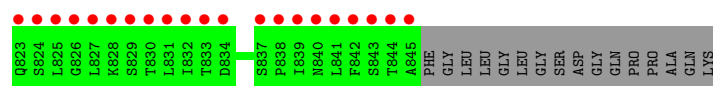




• Molecule 1: Major vault protein

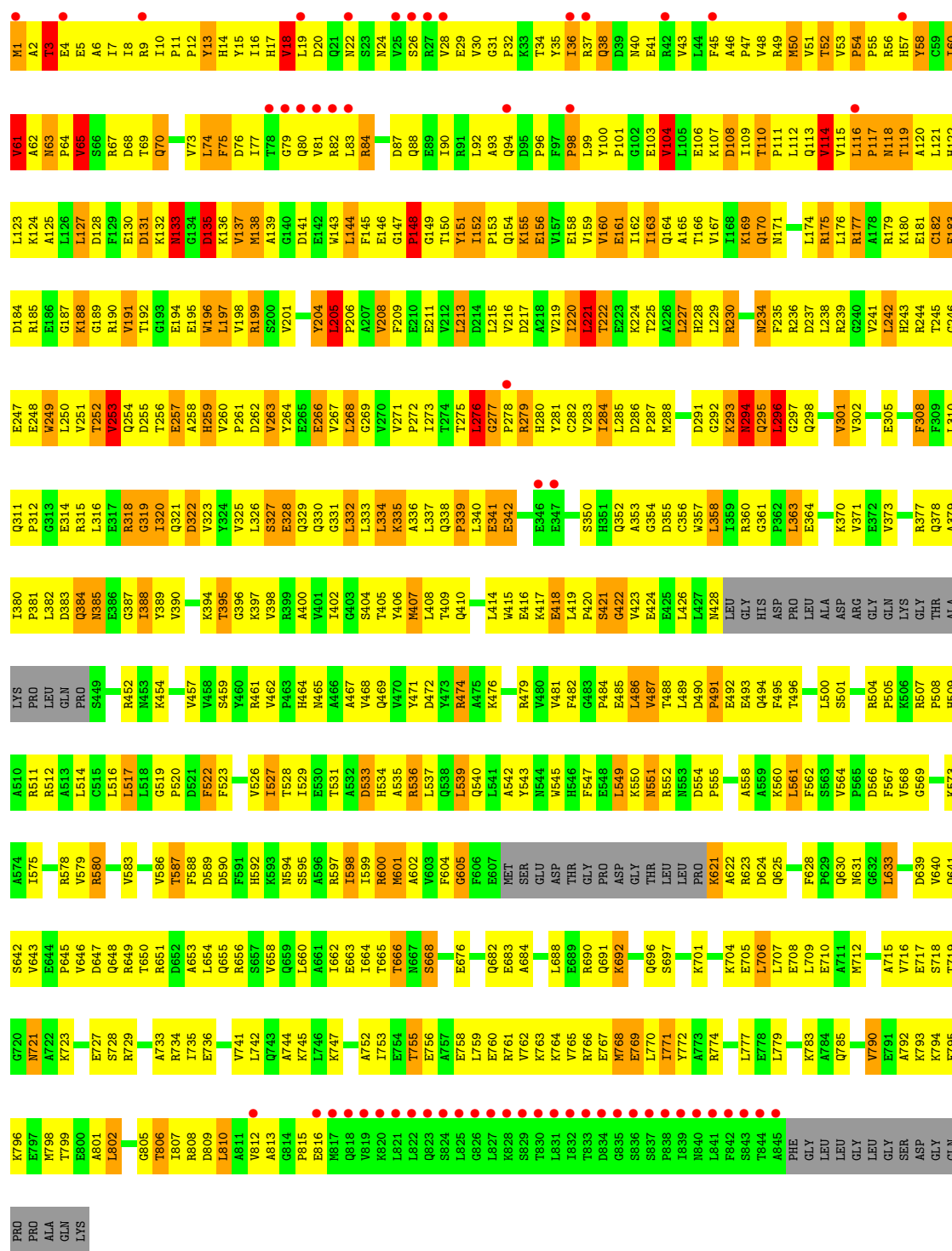
Chain J:





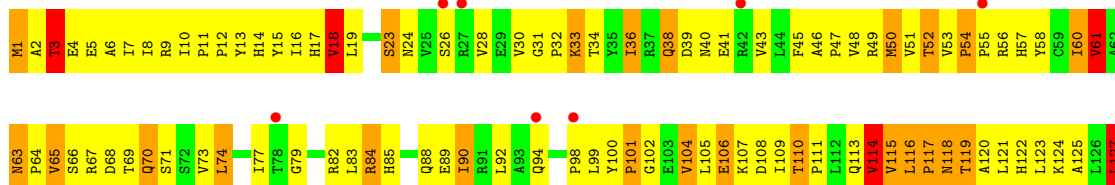
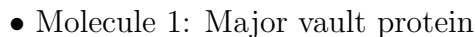
• Molecule 1: Major vault protein

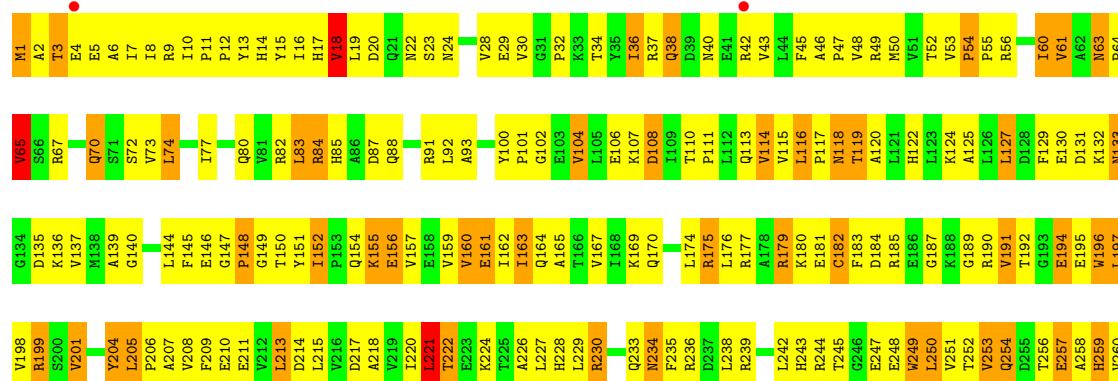
Chain K:



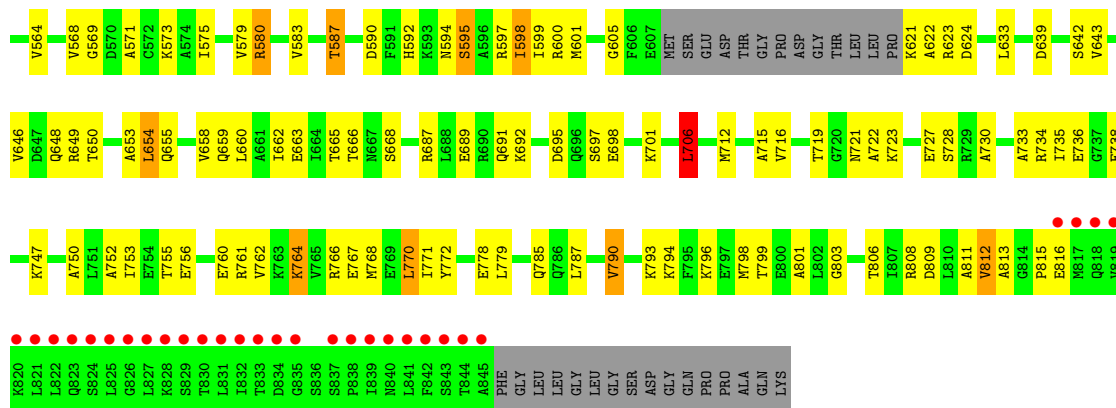
• Molecule 1: Major vault protein

Age Group	Male (%)	Female (%)
18-24	~10	~10
25-34	~10	~10
35-44	~10	~10
45-54	~10	~10
55-64	~10	~10
65-74	~10	~10
75+	~10	~10



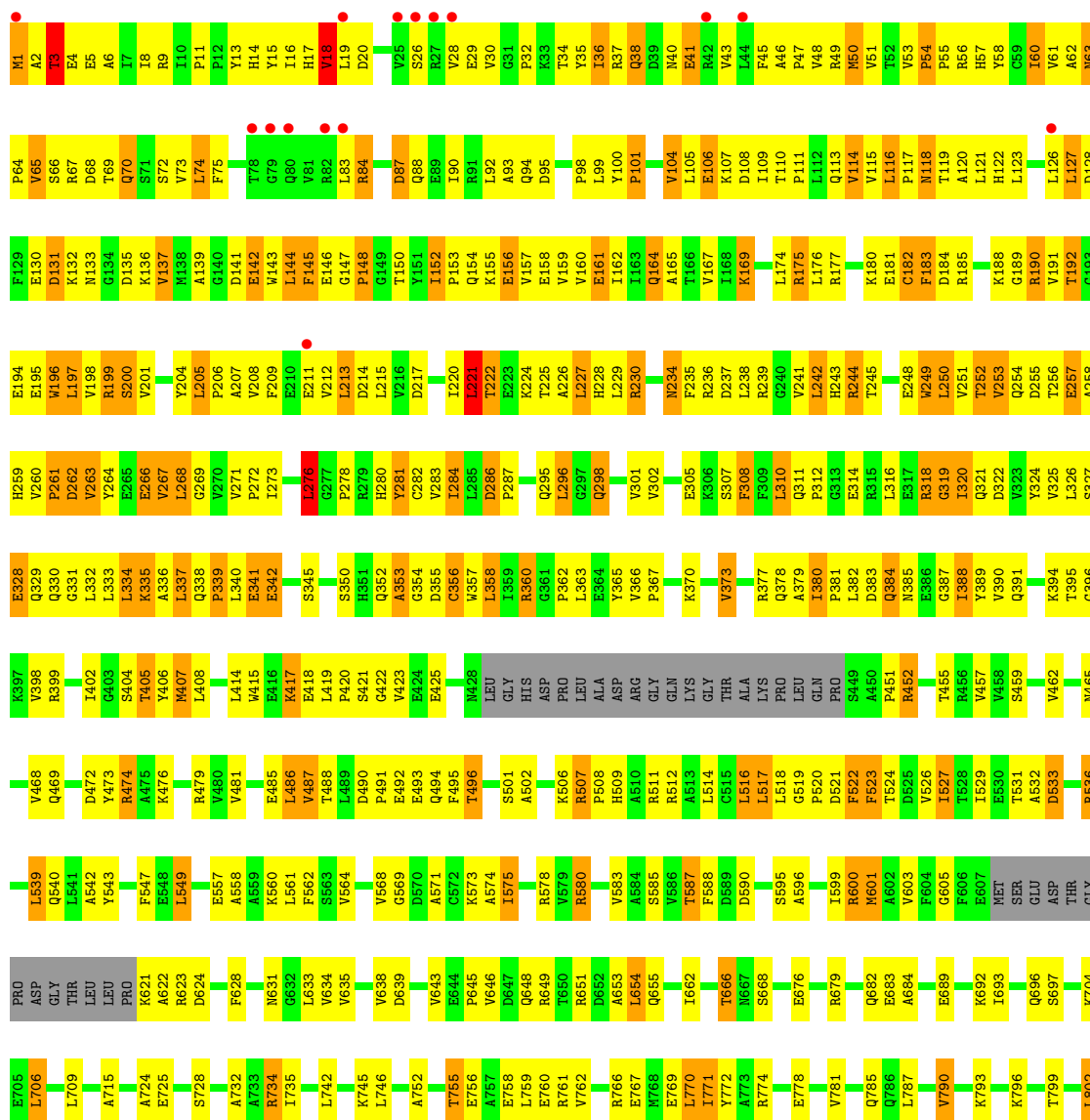


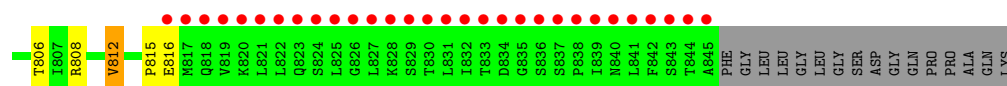




• Molecule 1: Major vault protein

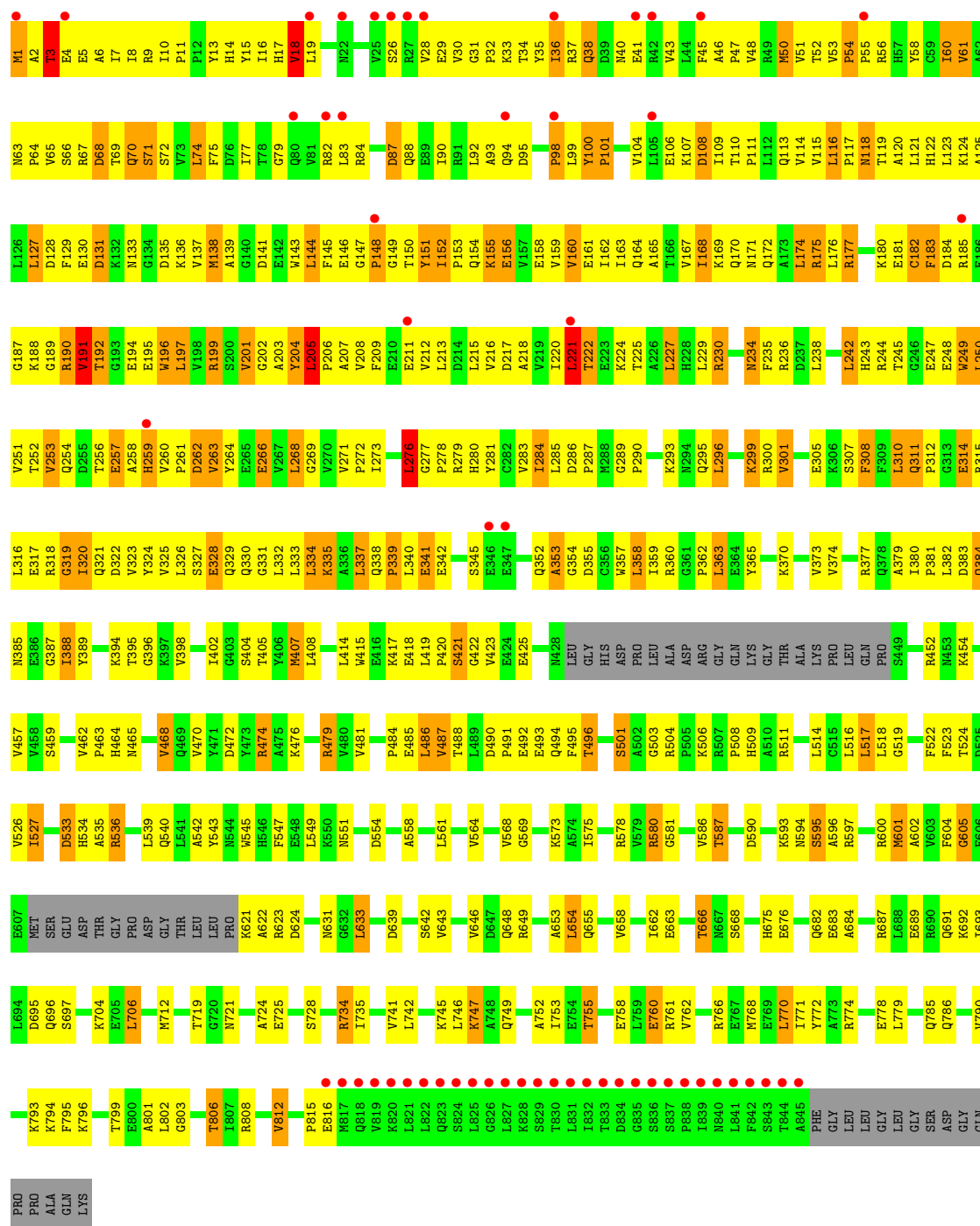
Chain P:





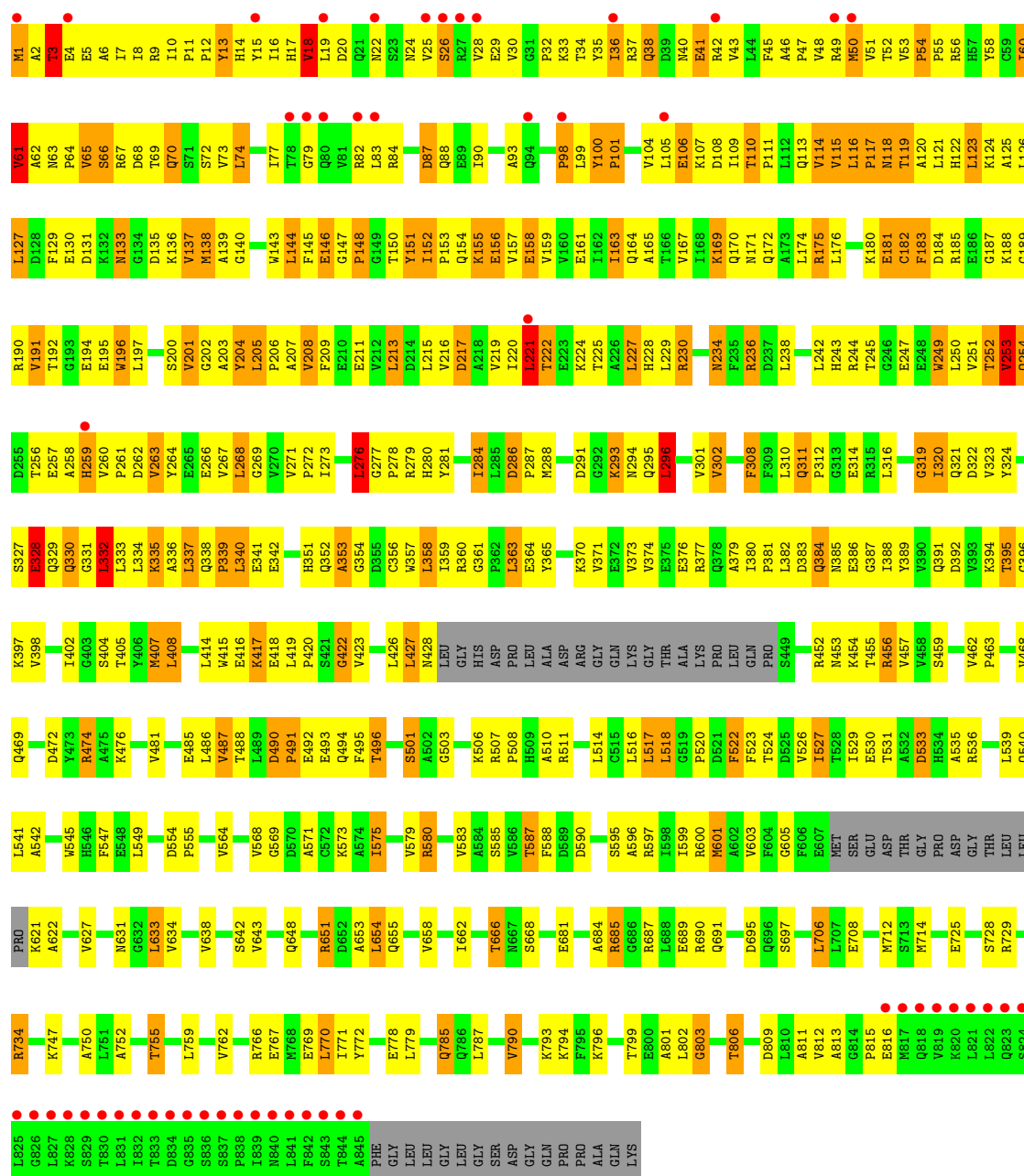
• Molecule 1: Major vault protein

Chain Q:



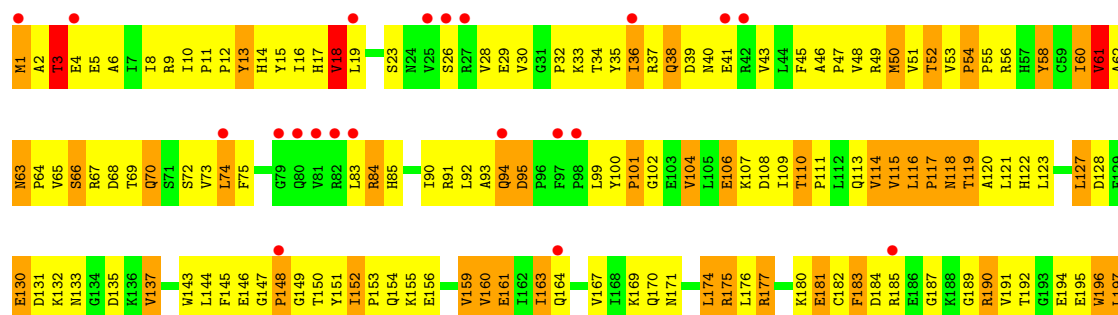
• Molecule 1: Major vault protein

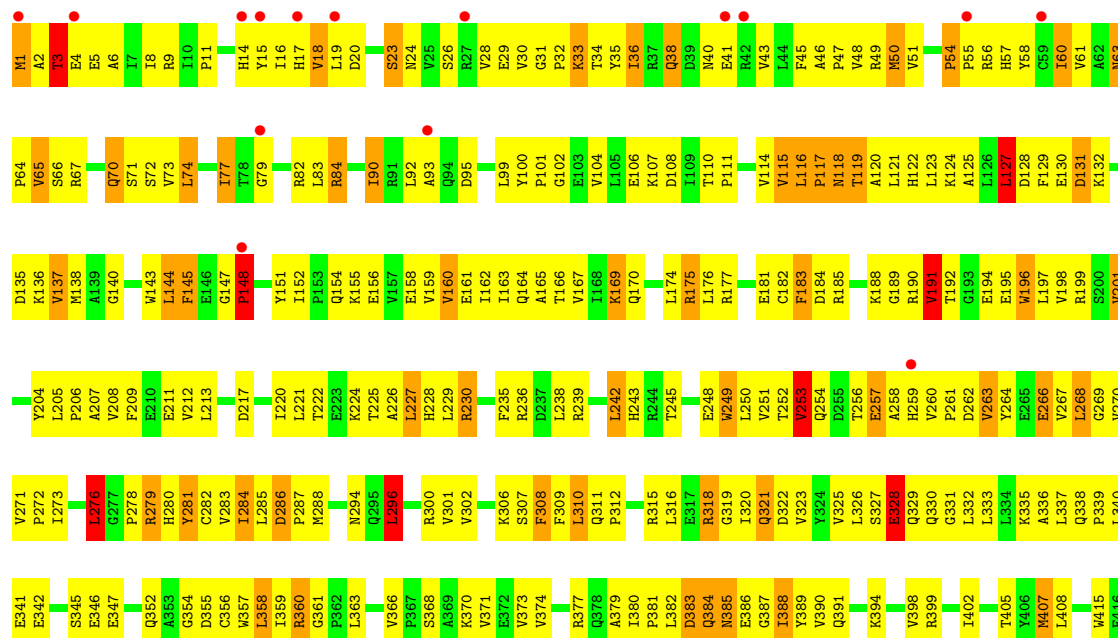
Chain R:

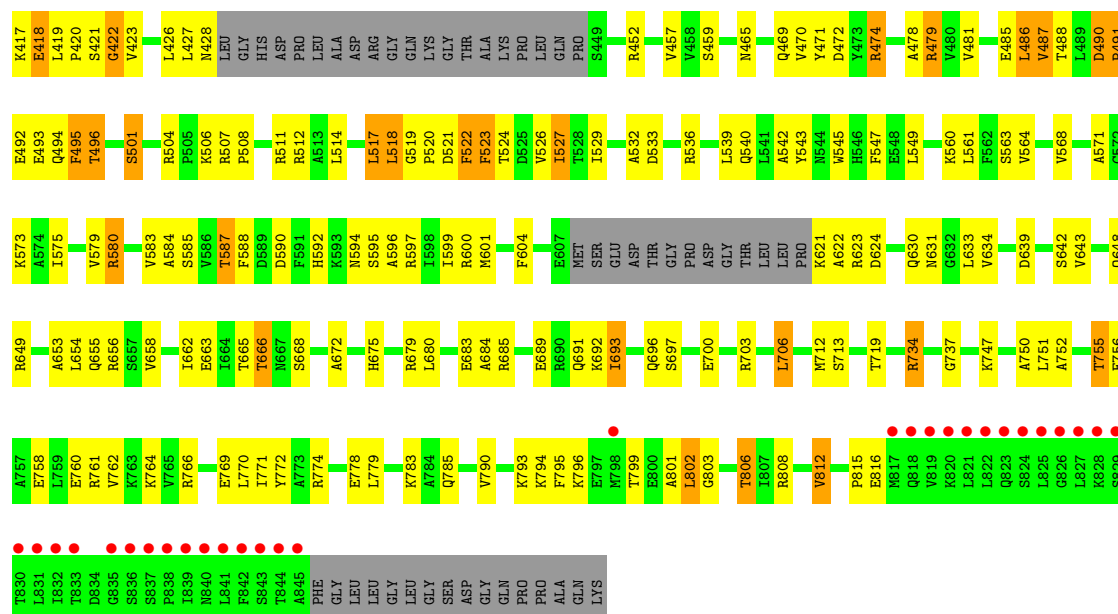


• Molecule 1: Major vault protein

Chain S:

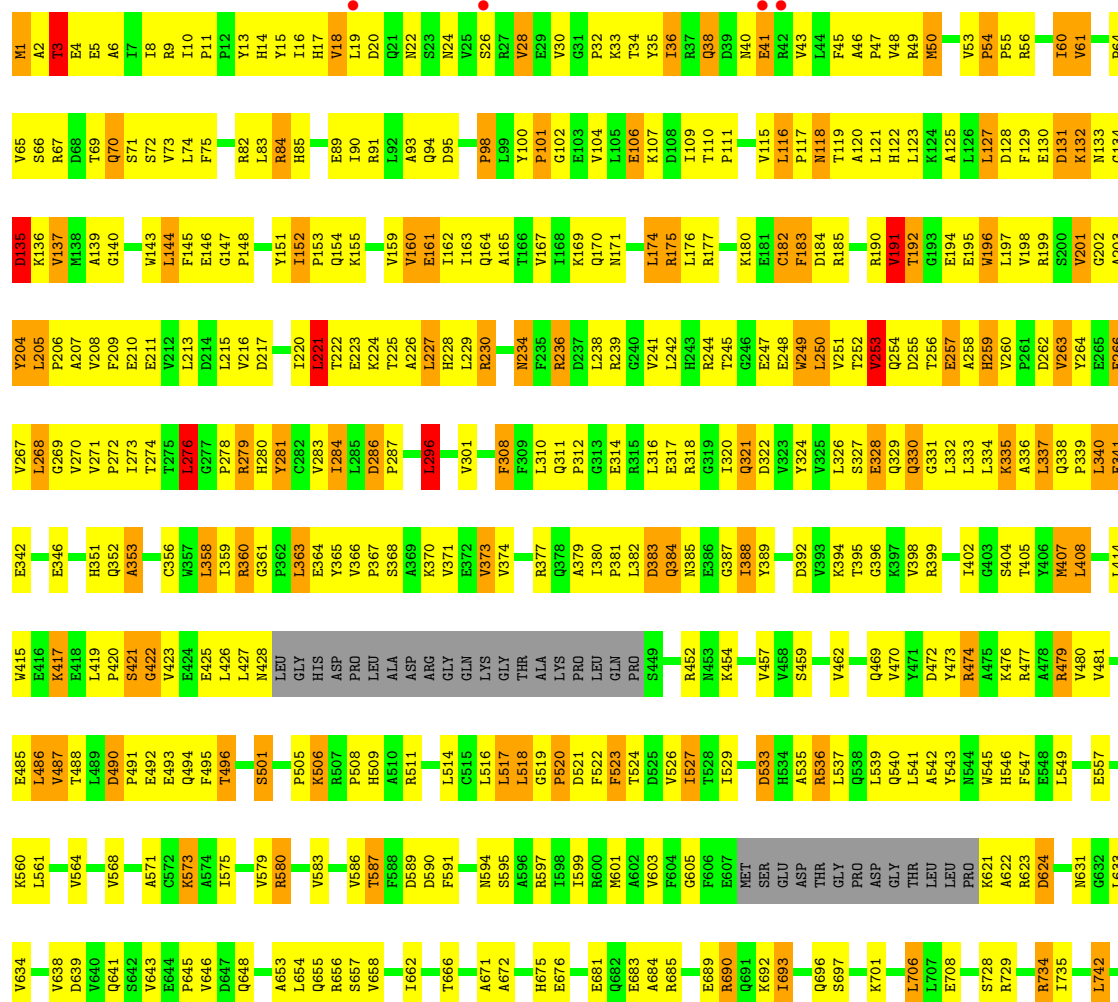


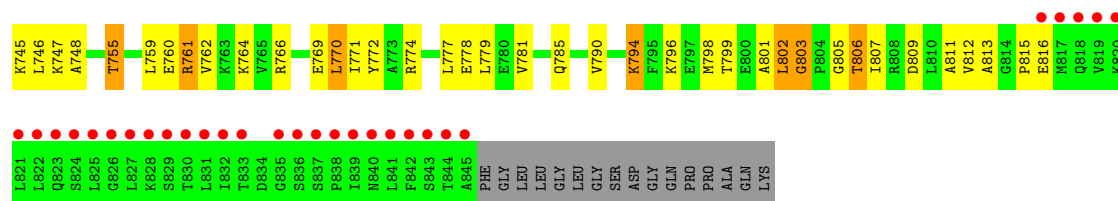




• Molecule 1: Major vault protein

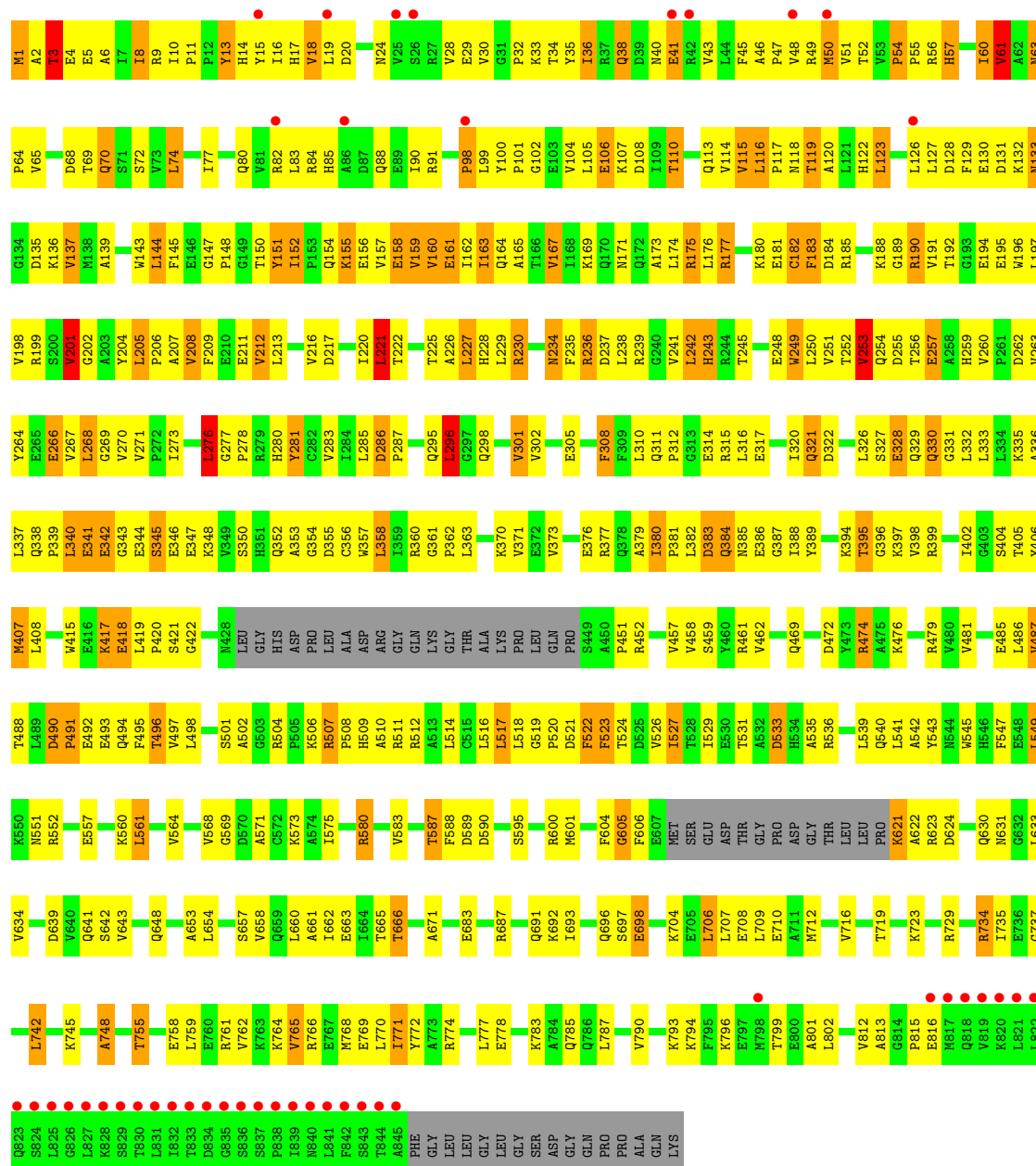
Chain U:





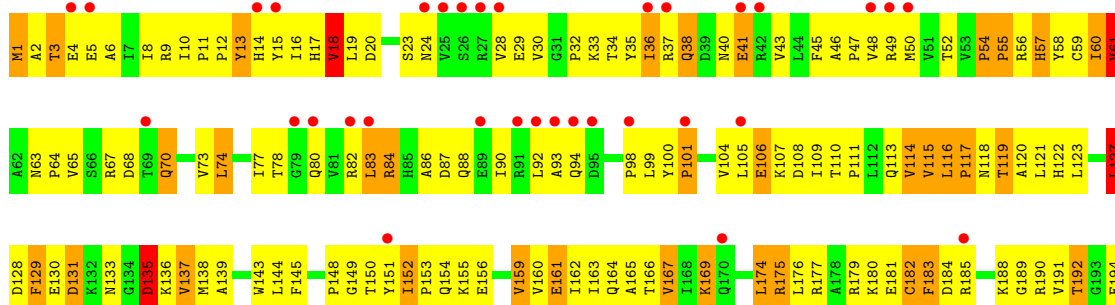
• Molecule 1: Major vault protein

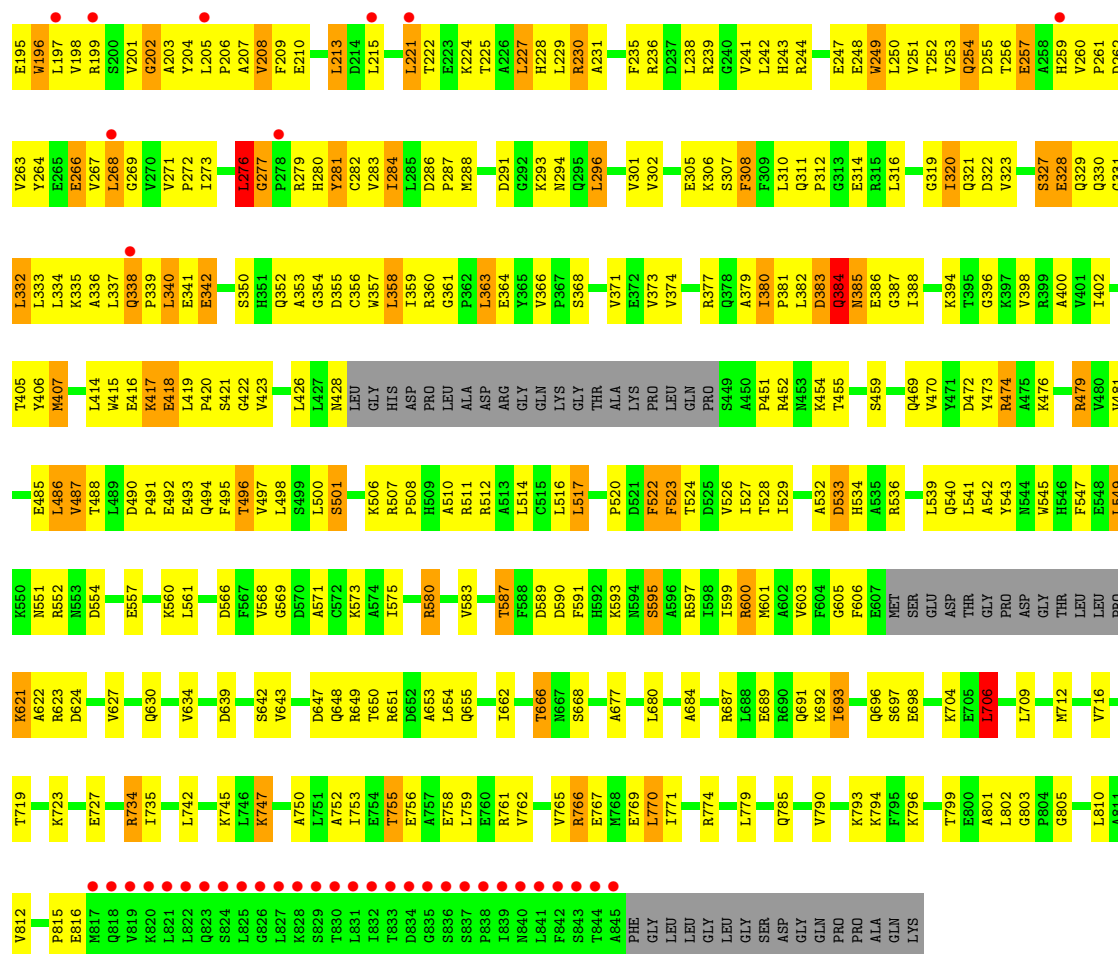
Chain V:



• Molecule 1: Major vault protein

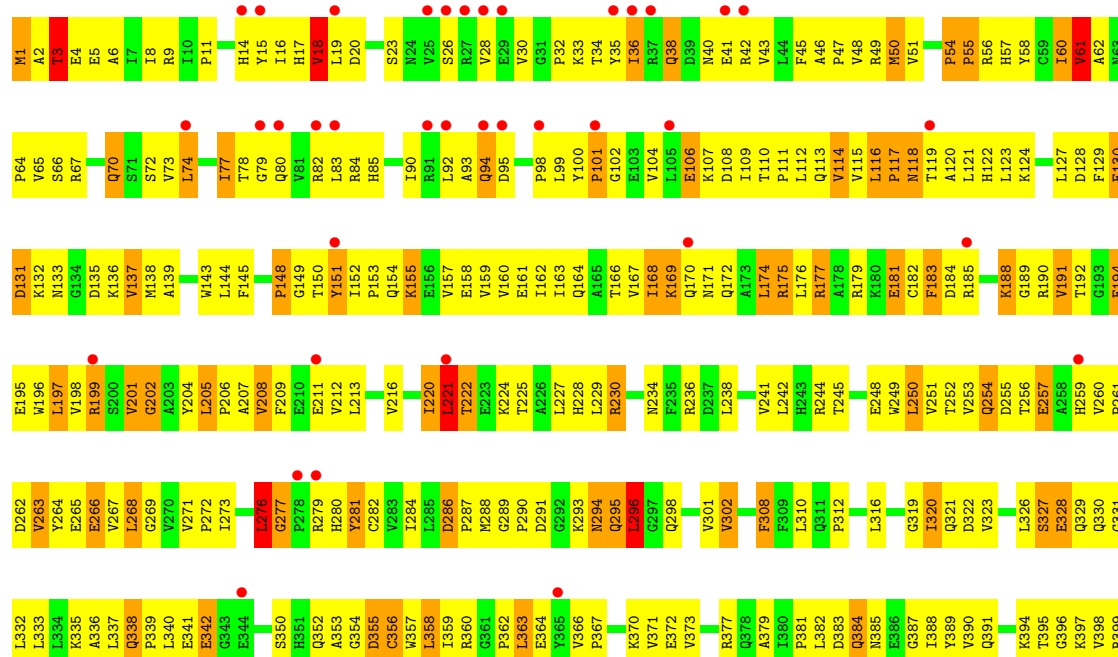
Chain W:

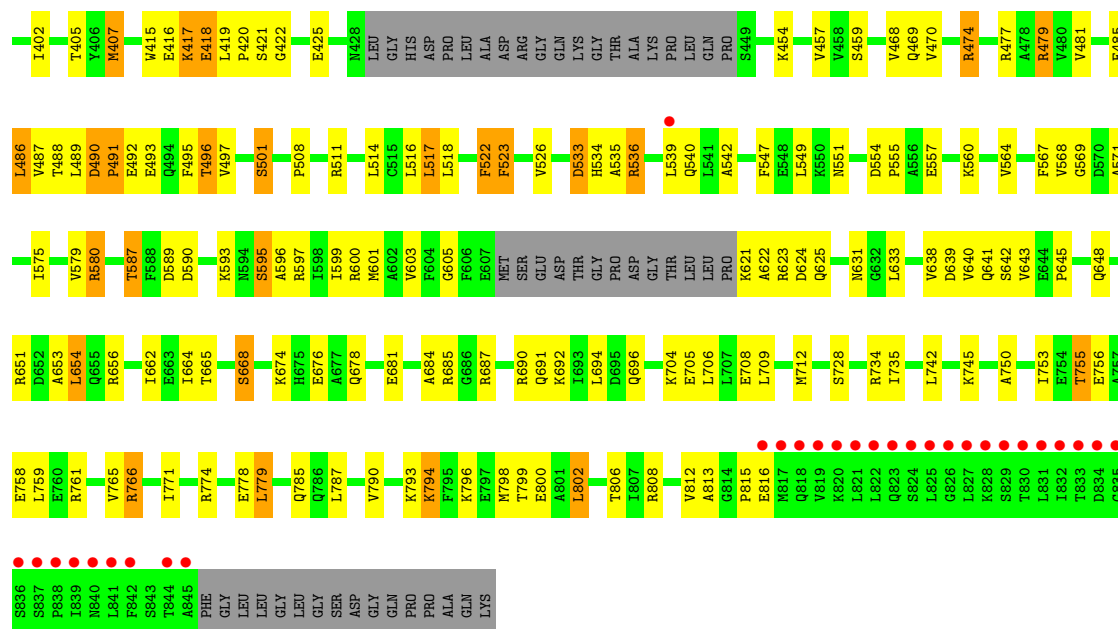




• Molecule 1: Major vault protein

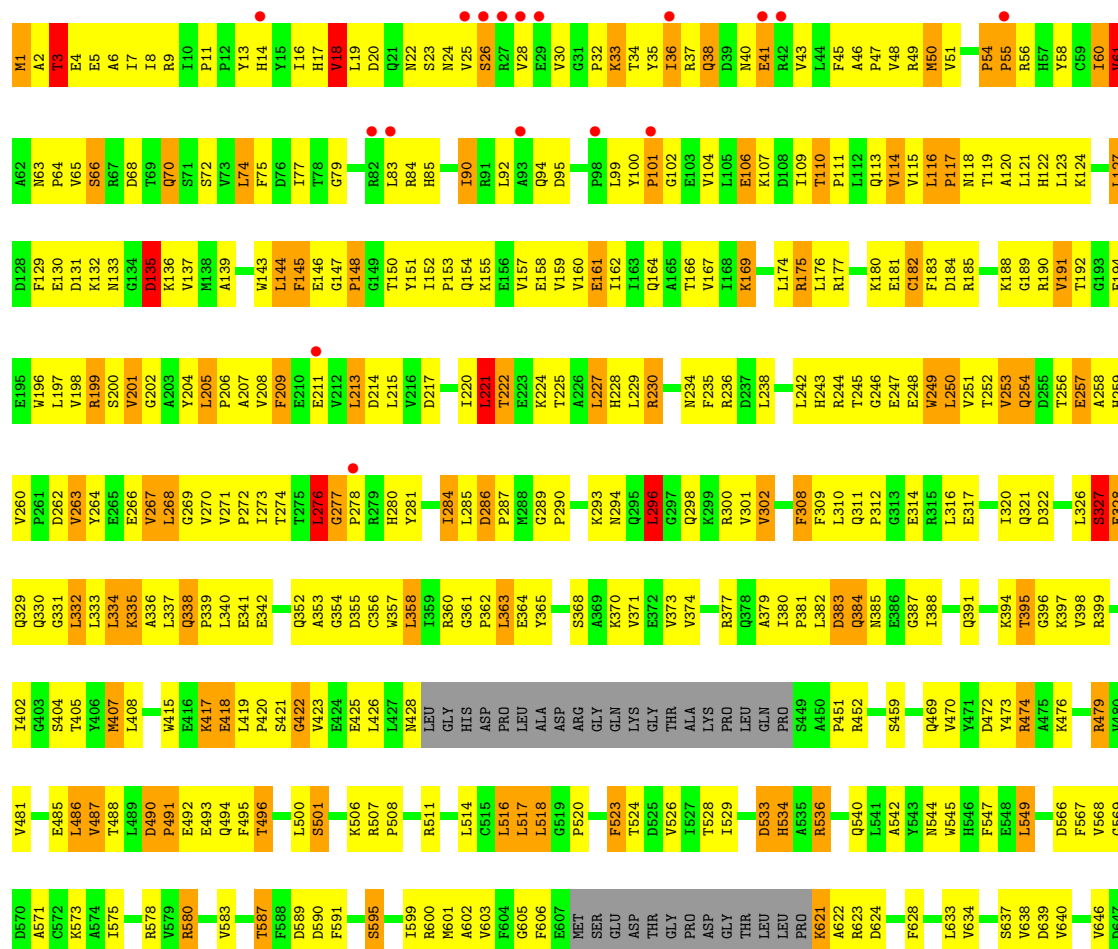
Chain Y:

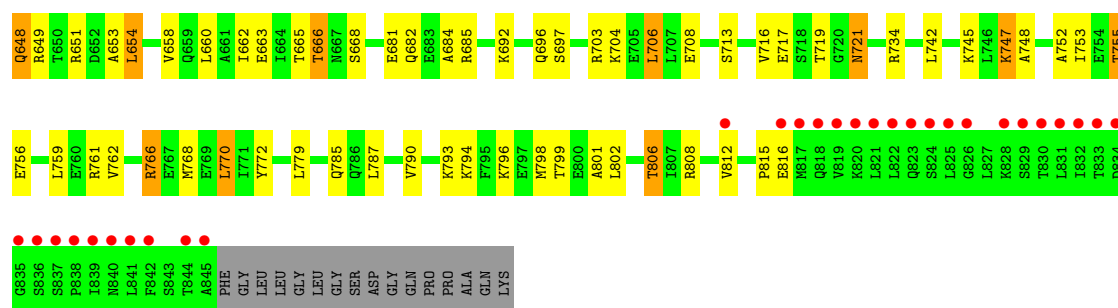




• Molecule 1: Major vault protein

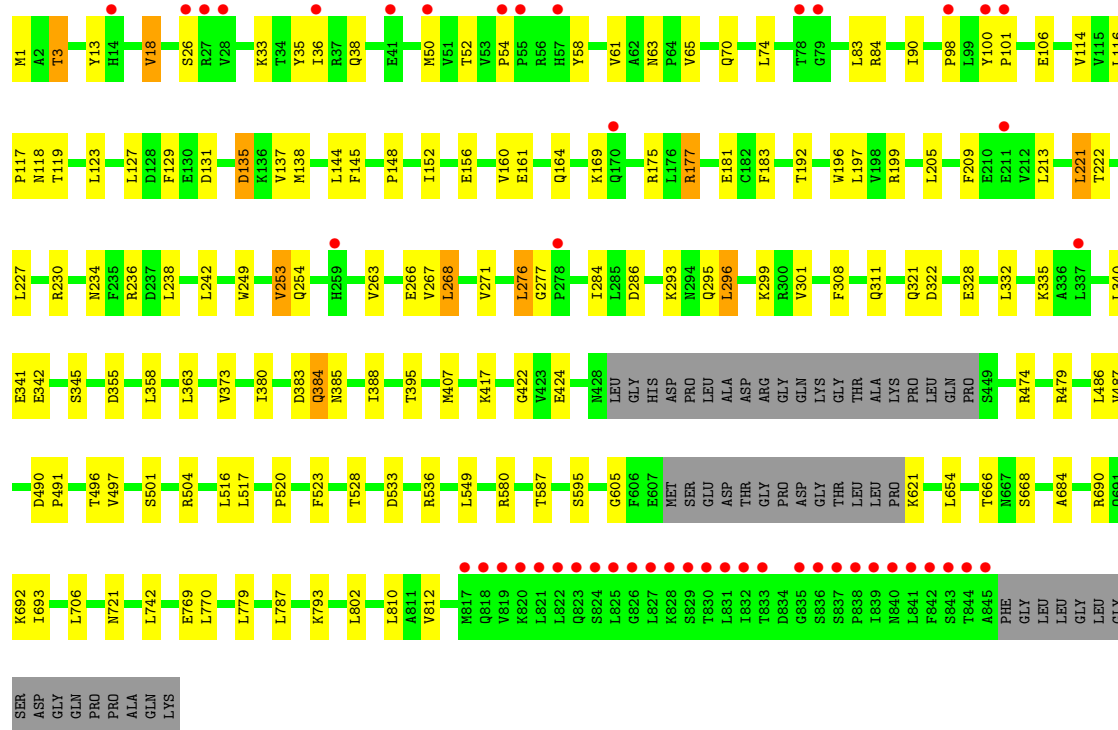
Chain Z:





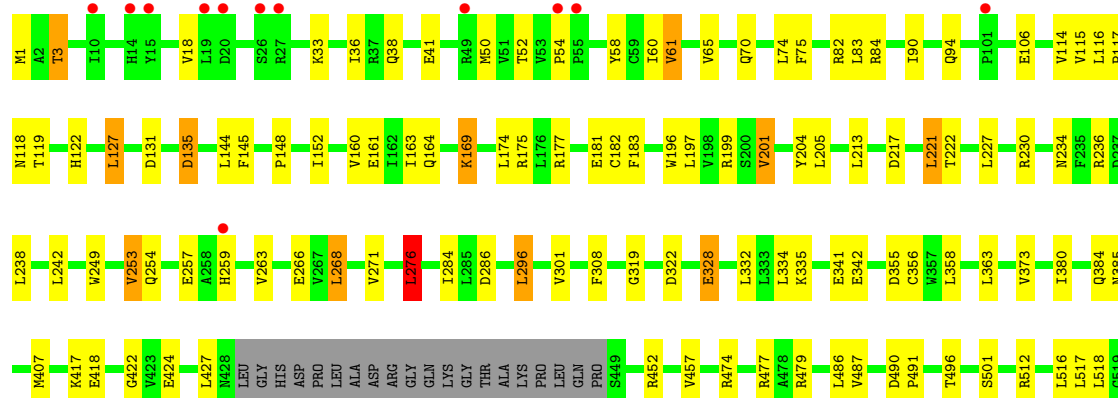
• Molecule 1: Major vault protein

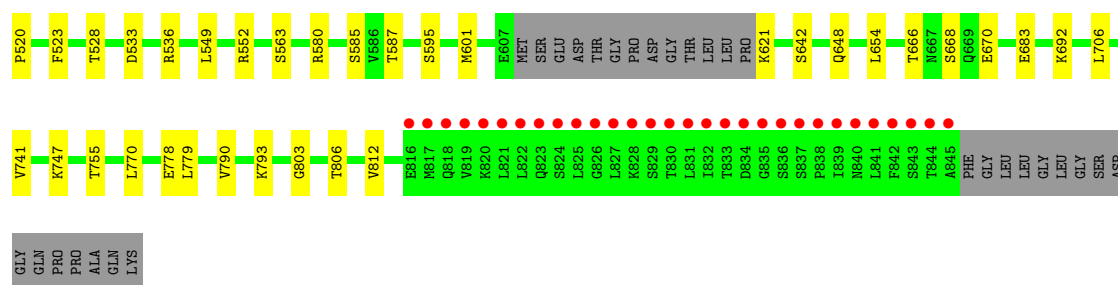
Chain a:



• Molecule 1: Major vault protein

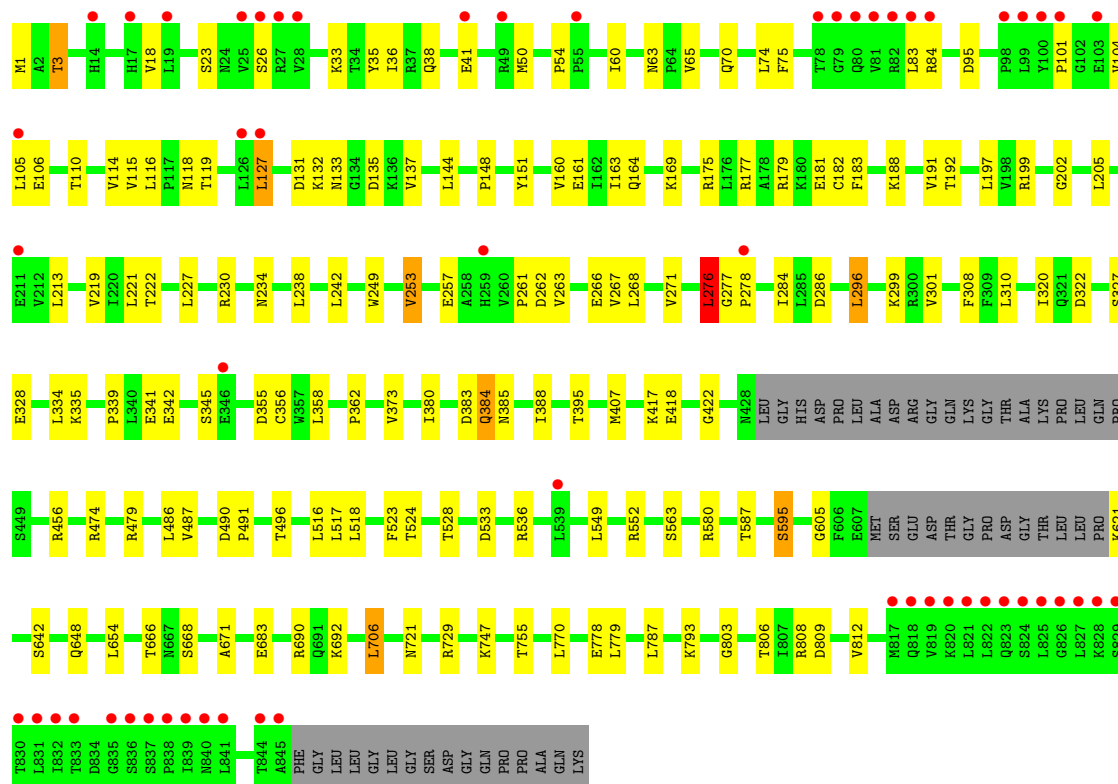
Chain b:





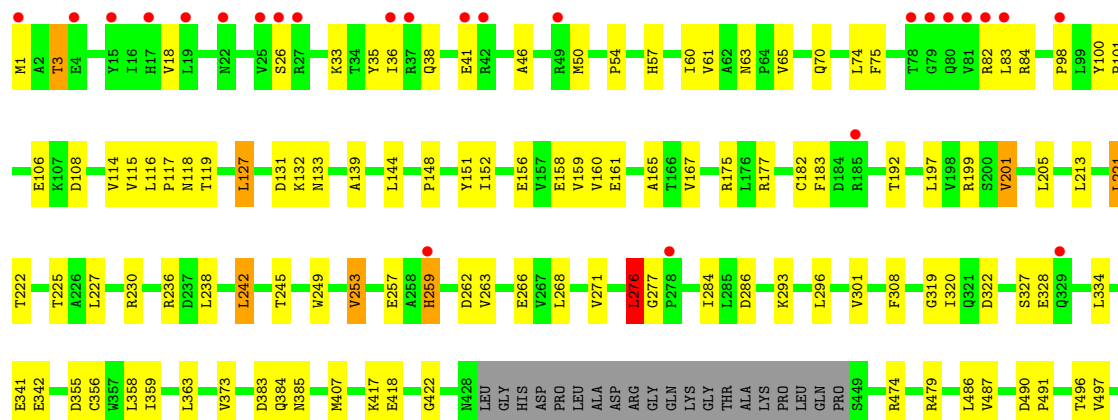
• Molecule 1: Major vault protein

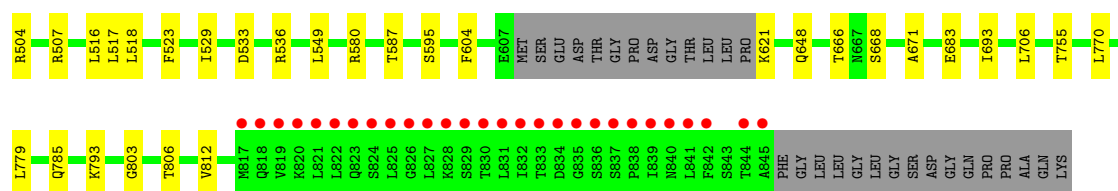
Chain c:



• Molecule 1: Major vault protein

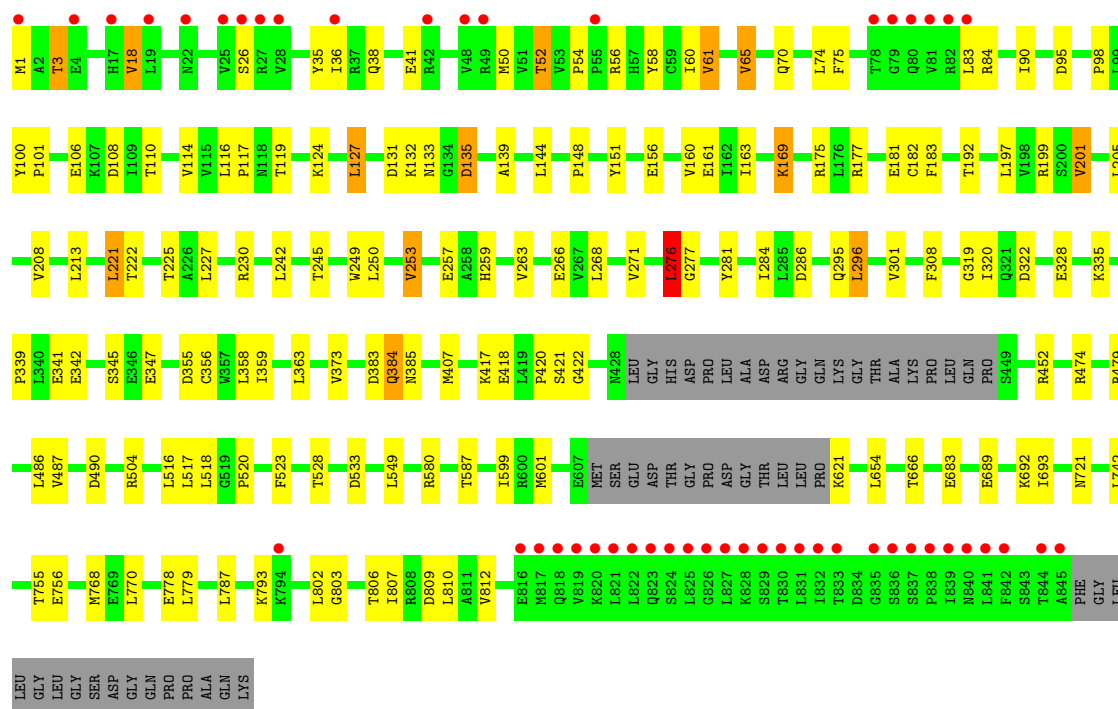
Chain d:





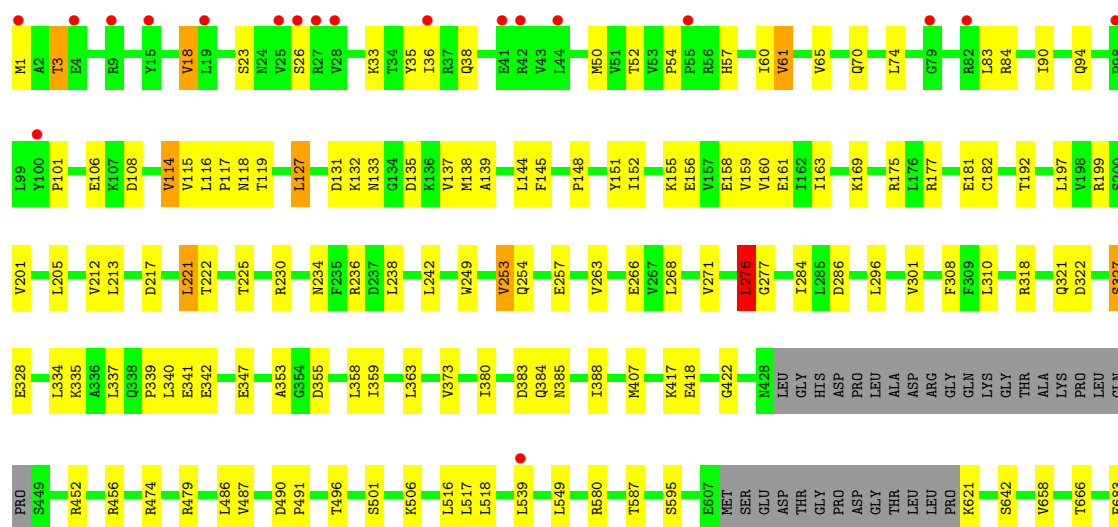
• Molecule 1: Major vault protein

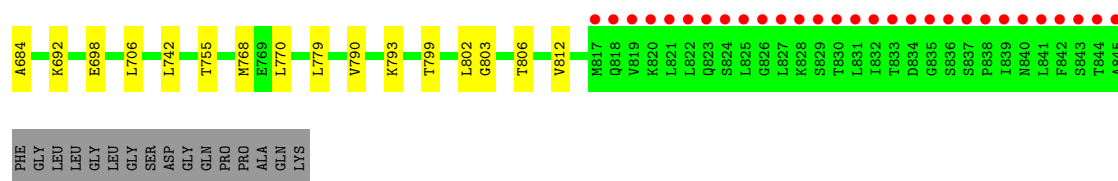
Chain e:



• Molecule 1: Major vault protein

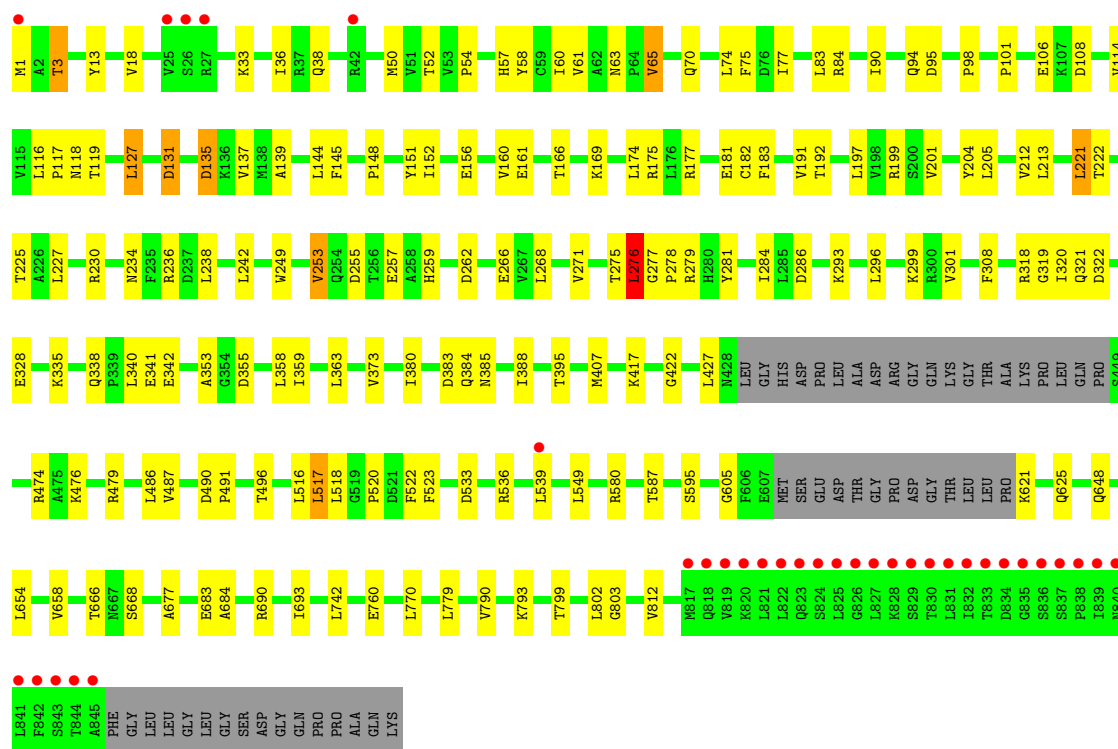
Chain f:





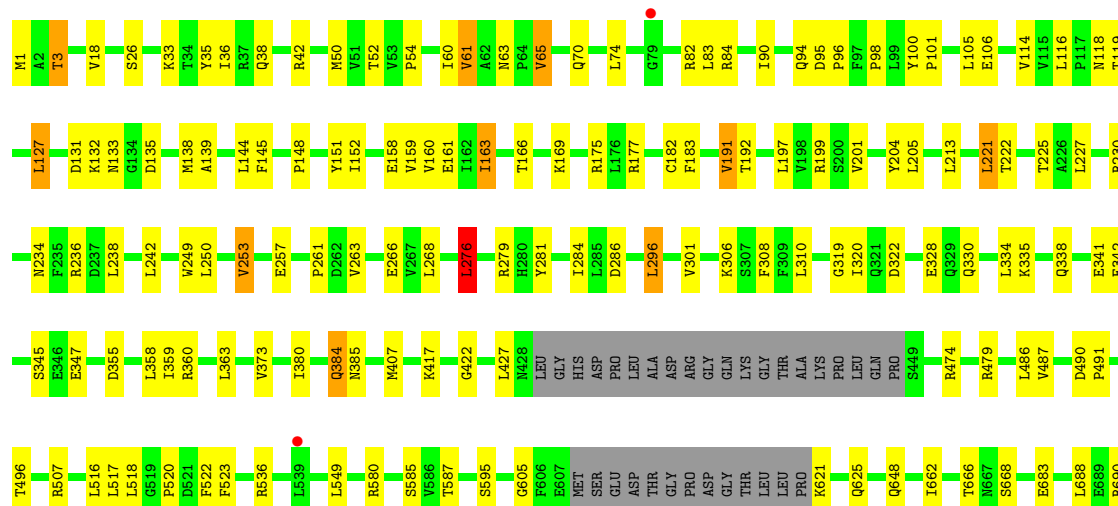
• Molecule 1: Major vault protein

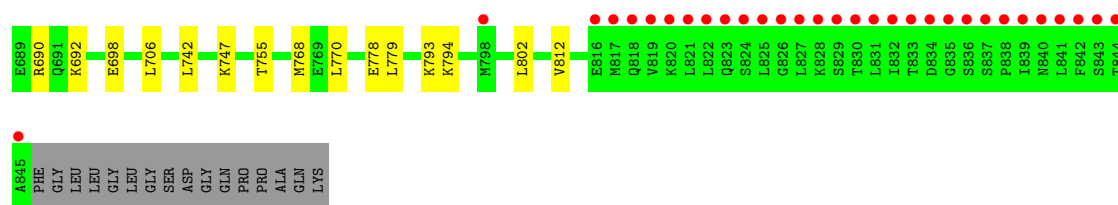
Chain g:



• Molecule 1: Major vault protein

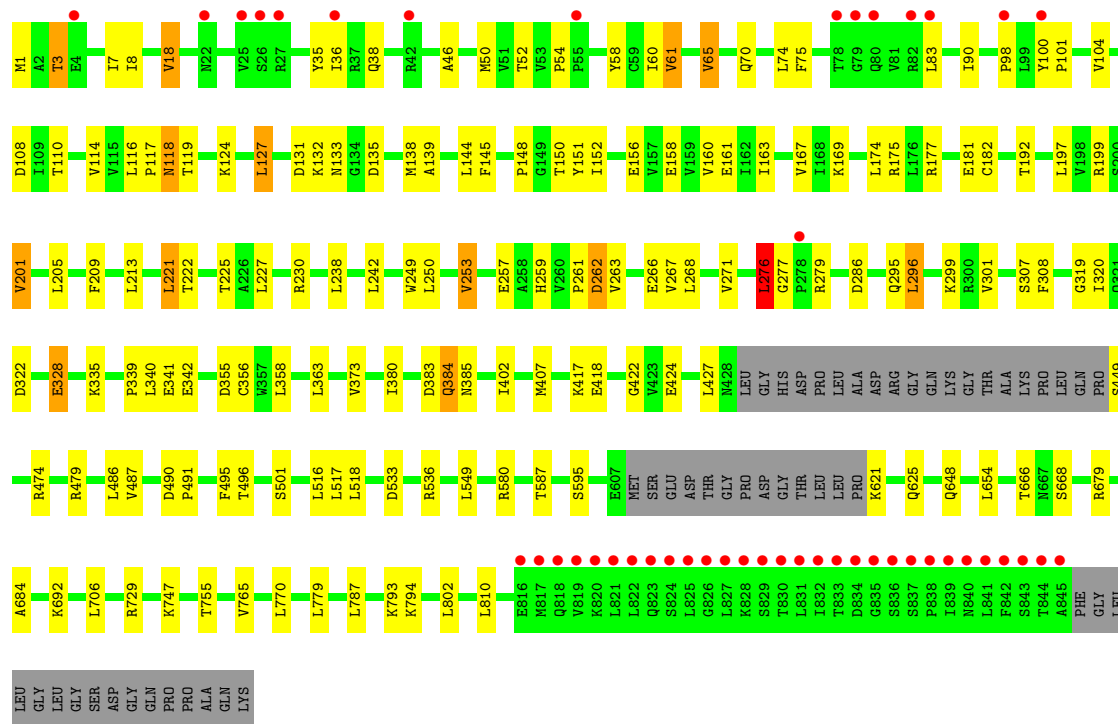
Chain h:





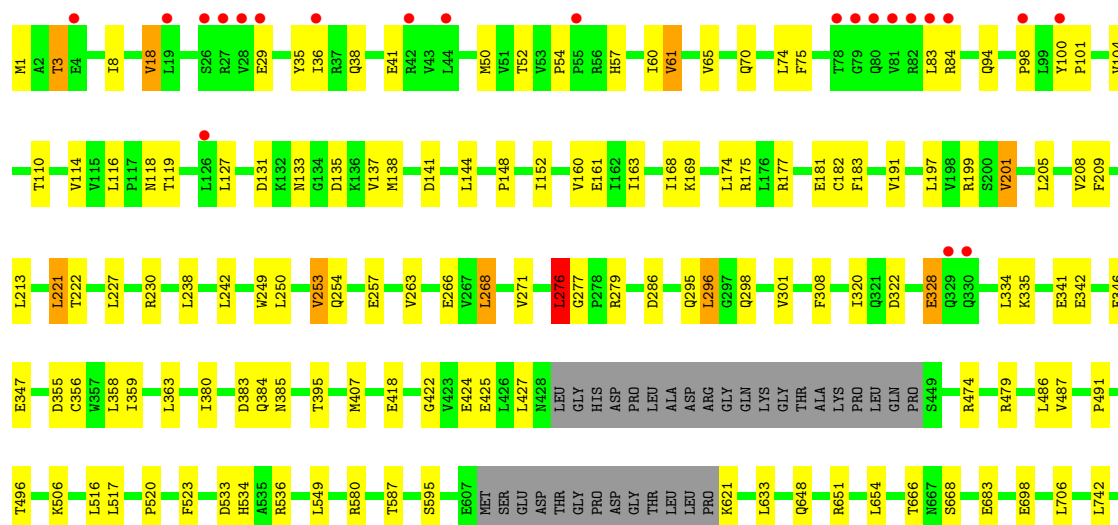
• Molecule 1: Major vault protein

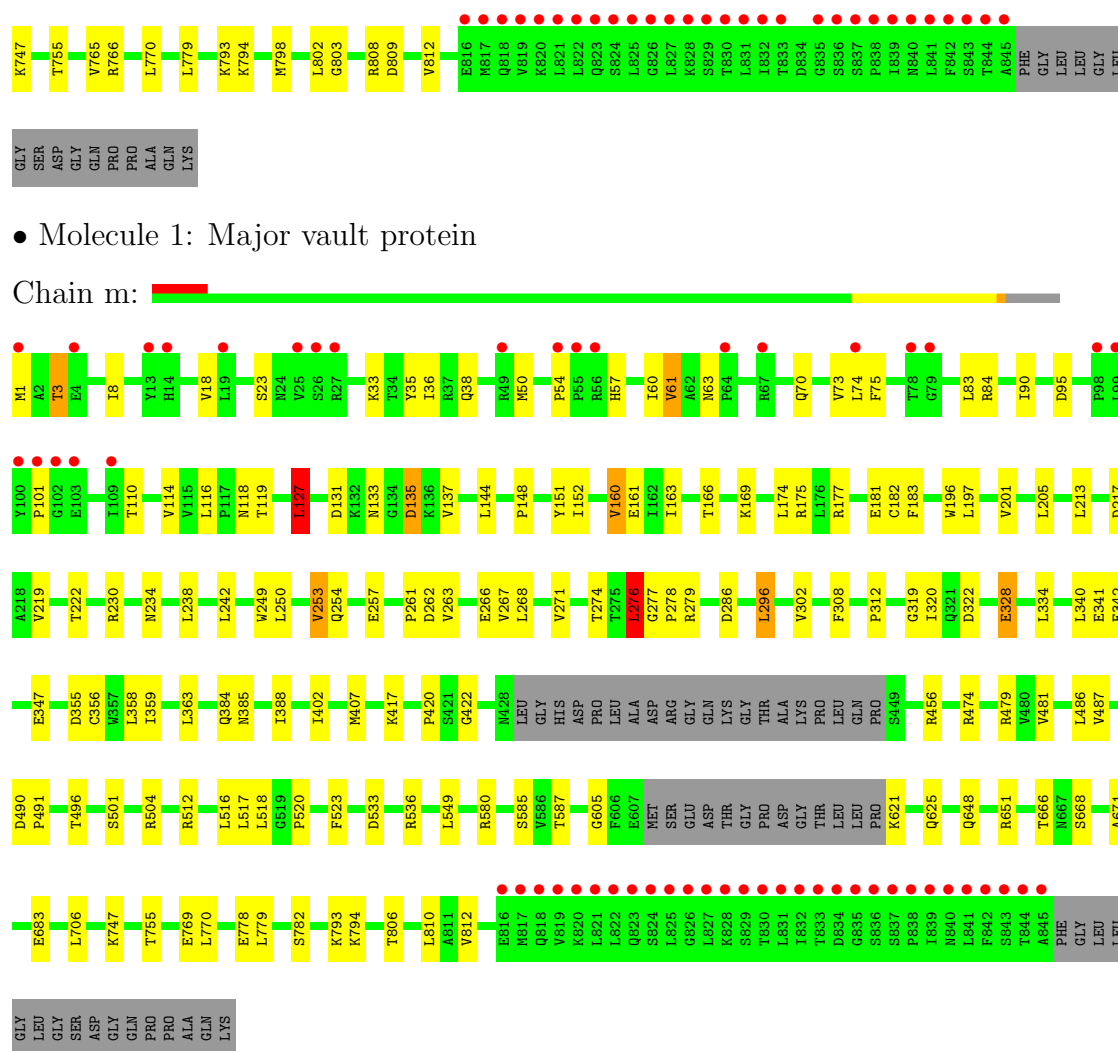
Chain k:



• Molecule 1: Major vault protein

Chain l:





• Molecule 1: Major vault protein

4 Data and refinement statistics

Xtriage (Phenix) failed to run properly - this section will therefore be incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	702.25Å 383.80Å 598.48Å 90.00° 124.69° 90.00°	Depositor
Resolution (Å)	204.00 – 3.50 203.54 – 3.47	Depositor EDS
% Data completeness (in resolution range)	92.7 (204.00-3.50) 91.4 (203.54-3.47)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	0.21	Depositor
Refinement program	CNS	Depositor
R, R_{free}	0.311 , 0.330 0.310 , 0.310	Depositor DCC
R_{free} test set	76647 reflections (5.27%)	DCC
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 72.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.85	EDS
Total number of atoms	241956	wwPDB-VP
Average B, all atoms (Å ²)	121.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.50	0/6279	0.69	3/8506 (0.0%)
1	B	0.50	0/6279	0.68	4/8506 (0.0%)
1	C	0.50	0/6279	0.69	5/8506 (0.1%)
1	D	0.50	0/6279	0.69	5/8506 (0.1%)
1	E	0.51	0/6279	0.69	3/8506 (0.0%)
1	F	0.50	0/6279	0.68	2/8506 (0.0%)
1	G	0.49	0/6279	0.68	3/8506 (0.0%)
1	H	0.50	0/6279	0.68	4/8506 (0.0%)
1	I	0.51	0/6279	0.69	3/8506 (0.0%)
1	J	0.51	0/6279	0.71	4/8506 (0.0%)
1	K	0.53	0/6279	0.73	6/8506 (0.1%)
1	L	0.52	0/6279	0.72	4/8506 (0.0%)
1	M	0.52	0/6279	0.71	3/8506 (0.0%)
1	N	0.51	0/6279	0.71	3/8506 (0.0%)
1	O	0.52	0/6279	0.71	3/8506 (0.0%)
1	P	0.52	0/6279	0.73	7/8506 (0.1%)
1	Q	0.52	0/6279	0.72	6/8506 (0.1%)
1	R	0.53	0/6279	0.74	4/8506 (0.0%)
1	S	0.50	0/6279	0.70	4/8506 (0.0%)
1	T	0.50	0/6279	0.69	3/8506 (0.0%)
1	U	0.49	0/6279	0.68	5/8506 (0.1%)
1	V	0.50	0/6279	0.67	4/8506 (0.0%)
1	W	0.49	0/6279	0.68	5/8506 (0.1%)
1	X	0.49	0/6279	0.69	3/8506 (0.0%)
1	Y	0.50	0/6279	0.68	3/8506 (0.0%)
1	Z	0.50	0/6279	0.69	4/8506 (0.0%)
1	a	0.49	0/6279	0.69	3/8506 (0.0%)
1	b	0.51	0/6279	0.70	5/8506 (0.1%)
1	c	0.51	0/6279	0.70	5/8506 (0.1%)
1	d	0.50	0/6279	0.71	5/8506 (0.1%)
1	e	0.51	0/6279	0.71	4/8506 (0.0%)
1	f	0.51	0/6279	0.70	4/8506 (0.0%)
1	g	0.50	0/6279	0.70	6/8506 (0.1%)
1	h	0.49	0/6279	0.70	3/8506 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.50	0/6279	0.70	4/8506 (0.0%)
1	j	0.50	0/6279	0.71	4/8506 (0.0%)
1	k	0.51	0/6279	0.72	4/8506 (0.0%)
1	l	0.50	0/6279	0.70	4/8506 (0.0%)
1	m	0.51	0/6279	0.69	4/8506 (0.0%)
All	All	0.51	0/244881	0.70	158/331734 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	1
1	B	1	0
1	C	1	1
1	D	1	1
1	E	1	1
1	F	1	0
1	G	1	0
1	H	1	0
1	I	1	0
1	J	1	1
1	K	1	1
1	L	1	0
1	M	1	0
1	N	1	0
1	O	1	0
1	P	1	0
1	Q	1	0
1	R	1	0
1	S	1	0
1	T	1	1
1	U	1	0
1	V	1	1
1	W	1	0
1	X	1	1
1	Y	1	0
1	Z	1	1
1	a	1	1
1	b	1	0
1	c	1	0

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	d	1	0
1	e	1	1
1	f	1	0
1	g	1	0
1	h	1	0
1	i	1	1
1	j	1	0
1	k	1	0
1	l	1	0
1	m	1	1
All	All	39	14

There are no bond length outliers.

All (158) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	165	ALA	CB-CA-C	-7.38	99.03	110.10
1	E	276	LEU	CA-CB-CG	7.24	131.95	115.30
1	K	276	LEU	CA-CB-CG	7.10	131.64	115.30
1	l	276	LEU	CA-CB-CG	7.04	131.49	115.30
1	P	252	THR	CB-CA-C	-6.96	92.81	111.60
1	k	276	LEU	CA-CB-CG	6.91	131.19	115.30
1	B	276	LEU	CA-CB-CG	6.80	130.94	115.30
1	A	276	LEU	CA-CB-CG	6.78	130.90	115.30
1	T	276	LEU	CA-CB-CG	6.69	130.68	115.30
1	f	276	LEU	CA-CB-CG	6.66	130.61	115.30
1	b	276	LEU	CA-CB-CG	6.59	130.45	115.30
1	U	276	LEU	CA-CB-CG	6.53	130.32	115.30
1	F	276	LEU	CA-CB-CG	6.47	130.17	115.30
1	X	276	LEU	CA-CB-CG	6.41	130.05	115.30
1	H	276	LEU	CA-CB-CG	6.41	130.04	115.30
1	g	276	LEU	CA-CB-CG	6.38	129.96	115.30
1	Y	276	LEU	CA-CB-CG	6.38	129.96	115.30
1	M	276	LEU	CA-CB-CG	6.37	129.95	115.30
1	I	127	LEU	CA-CB-CG	6.31	129.81	115.30
1	Q	205	LEU	CA-CB-CG	6.26	129.70	115.30
1	h	221	LEU	CA-CB-CG	6.26	129.70	115.30
1	c	276	LEU	CA-CB-CG	6.20	129.57	115.30
1	a	276	LEU	CA-CB-CG	6.16	129.46	115.30
1	Y	221	LEU	CA-CB-CG	6.13	129.41	115.30
1	C	42	ARG	NE-CZ-NH2	-6.11	117.25	120.30
1	m	276	LEU	CA-CB-CG	6.08	129.29	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	276	LEU	CA-CB-CG	6.07	129.27	115.30
1	L	276	LEU	CA-CB-CG	6.05	129.23	115.30
1	E	205	LEU	CA-CB-CG	6.05	129.22	115.30
1	h	276	LEU	CA-CB-CG	6.04	129.20	115.30
1	R	221	LEU	CA-CB-CG	6.04	129.18	115.30
1	I	276	LEU	CA-CB-CG	6.00	129.09	115.30
1	f	221	LEU	CA-CB-CG	6.00	129.09	115.30
1	W	221	LEU	CA-CB-CG	5.99	129.09	115.30
1	d	276	LEU	CA-CB-CG	5.99	129.08	115.30
1	U	221	LEU	CA-CB-CG	5.98	129.04	115.30
1	V	221	LEU	CA-CB-CG	5.97	129.02	115.30
1	D	221	LEU	CA-CB-CG	5.94	128.97	115.30
1	P	221	LEU	CA-CB-CG	5.93	128.94	115.30
1	a	221	LEU	CA-CB-CG	5.91	128.89	115.30
1	S	127	LEU	CA-CB-CG	5.90	128.88	115.30
1	L	127	LEU	CA-CB-CG	5.89	128.85	115.30
1	J	276	LEU	CA-CB-CG	5.89	128.85	115.30
1	U	127	LEU	CA-CB-CG	5.88	128.82	115.30
1	T	127	LEU	CA-CB-CG	5.87	128.79	115.30
1	d	221	LEU	CA-CB-CG	5.86	128.78	115.30
1	f	127	LEU	CA-CB-CG	5.85	128.75	115.30
1	g	127	LEU	CA-CB-CG	5.83	128.72	115.30
1	g	221	LEU	CA-CB-CG	5.83	128.71	115.30
1	Q	276	LEU	CA-CB-CG	5.80	128.64	115.30
1	d	165	ALA	CB-CA-C	-5.77	101.44	110.10
1	K	3	THR	OG1-CB-CG2	5.74	123.20	110.00
1	Y	3	THR	OG1-CB-CG2	5.73	123.18	110.00
1	M	127	LEU	CA-CB-CG	5.72	128.47	115.30
1	l	221	LEU	CA-CB-CG	5.72	128.45	115.30
1	b	221	LEU	CA-CB-CG	5.72	128.45	115.30
1	R	3	THR	OG1-CB-CG2	5.69	123.08	110.00
1	S	221	LEU	CA-CB-CG	5.67	128.34	115.30
1	l	3	THR	OG1-CB-CG2	5.66	123.01	110.00
1	N	3	THR	OG1-CB-CG2	5.65	123.00	110.00
1	L	3	THR	OG1-CB-CG2	5.65	123.00	110.00
1	k	3	THR	OG1-CB-CG2	5.65	122.99	110.00
1	X	706	LEU	CA-CB-CG	5.64	128.27	115.30
1	P	127	LEU	CA-CB-CG	5.63	128.26	115.30
1	G	3	THR	OG1-CB-CG2	5.63	122.95	110.00
1	O	3	THR	OG1-CB-CG2	5.63	122.95	110.00
1	m	3	THR	OG1-CB-CG2	5.63	122.95	110.00
1	c	706	LEU	CA-CB-CG	5.62	128.24	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	276	LEU	CA-CB-CG	5.62	128.23	115.30
1	d	127	LEU	CA-CB-CG	5.62	128.22	115.30
1	E	3	THR	OG1-CB-CG2	5.62	122.92	110.00
1	H	127	LEU	CA-CB-CG	5.59	128.17	115.30
1	P	276	LEU	CA-CB-CG	5.59	128.16	115.30
1	O	221	LEU	CA-CB-CG	5.57	128.11	115.30
1	j	276	LEU	CA-CB-CG	5.57	128.11	115.30
1	g	517	LEU	CA-CB-CG	5.56	128.10	115.30
1	M	3	THR	OG1-CB-CG2	5.56	122.79	110.00
1	X	3	THR	OG1-CB-CG2	5.55	122.76	110.00
1	G	276	LEU	CA-CB-CG	5.54	128.05	115.30
1	b	3	THR	OG1-CB-CG2	5.54	122.75	110.00
1	i	221	LEU	CA-CB-CG	5.53	128.03	115.30
1	e	3	THR	OG1-CB-CG2	5.53	122.72	110.00
1	P	164	GLN	C-N-CA	-5.53	107.88	121.70
1	U	3	THR	OG1-CB-CG2	5.53	122.71	110.00
1	k	221	LEU	CA-CB-CG	5.53	128.01	115.30
1	B	127	LEU	CA-CB-CG	5.50	127.96	115.30
1	I	3	THR	OG1-CB-CG2	5.50	122.65	110.00
1	j	3	THR	OG1-CB-CG2	5.50	122.65	110.00
1	P	3	THR	OG1-CB-CG2	5.49	122.64	110.00
1	Z	3	THR	OG1-CB-CG2	5.49	122.63	110.00
1	C	3	THR	OG1-CB-CG2	5.49	122.62	110.00
1	A	3	THR	OG1-CB-CG2	5.48	122.61	110.00
1	H	3	THR	OG1-CB-CG2	5.48	122.60	110.00
1	b	127	LEU	CA-CB-CG	5.48	127.89	115.30
1	m	340	LEU	CA-CB-CG	5.47	127.89	115.30
1	D	3	THR	OG1-CB-CG2	5.47	122.58	110.00
1	a	3	THR	OG1-CB-CG2	5.45	122.55	110.00
1	T	3	THR	OG1-CB-CG2	5.44	122.51	110.00
1	J	3	THR	OG1-CB-CG2	5.43	122.50	110.00
1	h	3	THR	OG1-CB-CG2	5.42	122.48	110.00
1	F	3	THR	OG1-CB-CG2	5.42	122.47	110.00
1	V	276	LEU	CA-CB-CG	5.42	127.77	115.30
1	f	3	THR	OG1-CB-CG2	5.41	122.45	110.00
1	S	3	THR	OG1-CB-CG2	5.40	122.42	110.00
1	e	276	LEU	CA-CB-CG	5.40	127.72	115.30
1	N	276	LEU	CA-CB-CG	5.39	127.70	115.30
1	K	221	LEU	CA-CB-CG	5.37	127.66	115.30
1	C	276	LEU	CA-CB-CG	5.35	127.60	115.30
1	B	3	THR	OG1-CB-CG2	5.34	122.28	110.00
1	D	276	LEU	CA-CB-CG	5.33	127.55	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	127	LEU	CA-CB-CG	5.30	127.50	115.30
1	K	127	LEU	CA-CB-CG	5.30	127.48	115.30
1	k	127	LEU	CA-CB-CG	5.29	127.48	115.30
1	N	127	LEU	CA-CB-CG	5.29	127.46	115.30
1	R	276	LEU	CA-CB-CG	5.29	127.46	115.30
1	i	276	LEU	CA-CB-CG	5.26	127.40	115.30
1	V	3	THR	OG1-CB-CG2	5.26	122.09	110.00
1	i	3	THR	OG1-CB-CG2	5.26	122.09	110.00
1	g	3	THR	OG1-CB-CG2	5.24	122.06	110.00
1	W	144	LEU	CA-CB-CG	5.24	127.35	115.30
1	e	127	LEU	CA-CB-CG	5.24	127.35	115.30
1	d	3	THR	OG1-CB-CG2	5.24	122.04	110.00
1	i	127	LEU	CA-CB-CG	5.23	127.33	115.30
1	P	221	LEU	CB-CG-CD1	5.23	119.88	111.00
1	Z	221	LEU	CA-CB-CG	5.22	127.31	115.30
1	W	3	THR	CA-CB-OG1	5.22	119.96	109.00
1	L	104	VAL	N-CA-C	5.20	125.04	111.00
1	K	205	LEU	CA-CB-CG	5.20	127.25	115.30
1	A	127	LEU	CA-CB-CG	5.17	127.19	115.30
1	C	221	LEU	CA-CB-CG	5.17	127.19	115.30
1	C	127	LEU	CA-CB-CG	5.16	127.18	115.30
1	m	127	LEU	CA-CB-CG	5.16	127.16	115.30
1	K	104	VAL	N-CA-C	5.16	124.92	111.00
1	c	3	THR	OG1-CB-CG2	5.16	121.86	110.00
1	e	221	LEU	CA-CB-CG	5.15	127.15	115.30
1	c	127	LEU	CA-CB-CG	5.14	127.11	115.30
1	V	3	THR	CA-CB-OG1	5.12	119.75	109.00
1	J	221	LEU	CA-CB-CG	5.12	127.07	115.30
1	Z	706	LEU	CA-CB-CG	5.12	127.07	115.30
1	R	332	LEU	CA-CB-CG	5.11	127.05	115.30
1	j	221	LEU	CA-CB-CG	5.10	127.04	115.30
1	W	3	THR	OG1-CB-CG2	5.10	121.73	110.00
1	Q	706	LEU	CA-CB-CG	5.08	126.98	115.30
1	Q	3	THR	CA-CB-OG1	5.07	119.66	109.00
1	B	3	THR	CA-CB-OG1	5.07	119.64	109.00
1	O	706	LEU	CA-CB-CG	5.06	126.95	115.30
1	Q	3	THR	OG1-CB-CG2	5.06	121.65	110.00
1	l	268	LEU	CA-CB-CG	5.06	126.94	115.30
1	D	127	LEU	CA-CB-CG	5.06	126.94	115.30
1	g	3	THR	CA-CB-OG1	5.05	119.61	109.00
1	b	332	LEU	CA-CB-CG	5.03	126.87	115.30
1	c	3	THR	CA-CB-OG1	5.02	119.55	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	3	THR	CA-CB-OG1	5.02	119.54	109.00
1	H	3	THR	CA-CB-OG1	5.02	119.54	109.00
1	U	3	THR	CA-CB-OG1	5.01	119.52	109.00
1	G	127	LEU	CA-CB-CG	5.01	126.82	115.30
1	J	127	LEU	CA-CB-CG	5.00	126.80	115.30
1	S	276	LEU	CA-CB-CG	5.00	126.80	115.30

All (39) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	3	THR	CB
1	B	3	THR	CB
1	C	3	THR	CB
1	D	3	THR	CB
1	E	3	THR	CB
1	F	3	THR	CB
1	G	3	THR	CB
1	H	3	THR	CB
1	I	3	THR	CB
1	J	3	THR	CB
1	K	3	THR	CB
1	L	3	THR	CB
1	M	3	THR	CB
1	N	3	THR	CB
1	O	3	THR	CB
1	P	3	THR	CB
1	Q	3	THR	CB
1	R	3	THR	CB
1	S	3	THR	CB
1	T	3	THR	CB
1	U	3	THR	CB
1	V	3	THR	CB
1	W	3	THR	CB
1	X	3	THR	CB
1	Y	3	THR	CB
1	Z	3	THR	CB
1	a	3	THR	CB
1	b	3	THR	CB
1	c	3	THR	CB
1	d	3	THR	CB
1	e	3	THR	CB
1	f	3	THR	CB

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Mol	Chain	Res	Type	Atom
1	g	3	THR	CB
1	h	3	THR	CB
1	i	3	THR	CB
1	j	3	THR	CB
1	k	3	THR	CB
1	l	3	THR	CB
1	m	3	THR	CB

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	504	ARG	Peptide
1	C	504	ARG	Peptide
1	D	504	ARG	Peptide
1	E	504	ARG	Peptide
1	J	135	ASP	Peptide
1	K	135	ASP	Peptide
1	T	504	ARG	Peptide
1	V	504	ARG	Peptide
1	X	327	SER	Peptide
1	Z	302	VAL	Peptide
1	a	504	ARG	Peptide
1	e	504	ARG	Peptide
1	i	504	ARG	Peptide
1	m	504	ARG	Peptide

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6204	0	6224	808	0
1	B	6204	0	6224	800	0
1	C	6204	0	6224	794	0
1	D	6204	0	6224	794	0
1	E	6204	0	6224	817	0
1	F	6204	0	6224	749	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	6204	0	6224	817	0
1	H	6204	0	6224	790	0
1	I	6204	0	6224	751	0
1	J	6204	0	6224	836	0
1	K	6204	0	6224	851	0
1	L	6204	0	6224	863	0
1	M	6204	0	6224	832	0
1	N	6204	0	6224	524	0
1	O	6204	0	6224	515	0
1	P	6204	0	6224	552	0
1	Q	6204	0	6224	581	0
1	R	6204	0	6224	588	0
1	S	6204	0	6224	522	0
1	T	6204	0	6224	500	0
1	U	6204	0	6224	481	0
1	V	6204	0	6224	477	0
1	W	6204	0	6224	494	0
1	X	6204	0	6224	484	0
1	Y	6204	0	6224	487	0
1	Z	6204	0	6224	459	0
1	a	6204	0	6224	0	0
1	b	6204	0	6224	0	0
1	c	6204	0	6224	0	0
1	d	6204	0	6224	0	0
1	e	6204	0	6224	0	0
1	f	6204	0	6224	0	0
1	g	6204	0	6224	0	0
1	h	6204	0	6224	0	0
1	i	6204	0	6224	0	0
1	j	6204	0	6224	0	0
1	k	6204	0	6224	0	0
1	l	6204	0	6224	0	0
1	m	6204	0	6224	0	0
All	All	241956	0	242736	15693	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 32.

All (15693) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:654:LEU:CD1	1:L:662:ILE:HD13	3.24	1.45
1:N:132:LYS:NZ	1:N:152:ILE:HD12	1.31	1.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:77:ILE:CD1	1:D:80:GLN:HB2	1.58	1.32
1:J:132:LYS:NZ	1:J:152:ILE:HD12	2.54	1.31
1:I:653:ALA:HB1	1:J:662:ILE:CD1	2.09	1.30
1:D:77:ILE:HD11	1:D:80:GLN:CB	1.60	1.29
1:B:653:ALA:HB1	1:C:662:ILE:CD1	1.93	1.28
1:K:654:LEU:HD11	1:L:662:ILE:CD1	3.60	1.27
1:X:770:LEU:CD1	1:X:774:ARG:HH22	1.49	1.26
1:X:653:ALA:CB	1:Y:662:ILE:HD11	1.66	1.24
1:I:132:LYS:NZ	1:I:152:ILE:HD12	2.43	1.23
1:P:653:ALA:CB	1:Q:662:ILE:HD11	1.67	1.22
1:D:13:TYR:O	1:D:36:ILE:HD13	4.78	1.21
1:C:653:ALA:HB1	1:D:662:ILE:CD1	2.82	1.21
1:K:132:LYS:NZ	1:K:152:ILE:HD12	2.56	1.21
1:U:653:ALA:CB	1:V:662:ILE:HD11	1.68	1.21
1:B:20:ASP:HB2	1:B:49:ARG:HG3	4.13	1.21
1:I:330:GLN:HG3	1:I:379:ALA:CB	1.68	1.21
1:T:116:LEU:HB3	1:T:117:PRO:HD2	1.23	1.19
1:B:54:PRO:HB2	1:B:55:PRO:HD3	1.20	1.19
1:G:36:ILE:O	1:G:36:ILE:HD13	1.42	1.19
1:I:745:LYS:HG3	1:J:753:ILE:CD1	2.16	1.19
1:S:777:LEU:HD11	1:T:783:LYS:HB2	1.23	1.18
1:G:653:ALA:HB1	1:H:662:ILE:HD11	1.50	1.18
1:D:77:ILE:HG12	1:D:80:GLN:O	1.43	1.18
1:N:419:LEU:HG	1:N:420:PRO:HD2	1.23	1.18
1:D:653:ALA:CB	1:E:662:ILE:HD11	1.83	1.17
1:F:653:ALA:CB	1:G:662:ILE:HD11	2.17	1.16
1:L:54:PRO:HB2	1:L:55:PRO:HD3	1.20	1.16
1:I:653:ALA:CB	1:J:662:ILE:HD11	1.76	1.16
1:D:653:ALA:HB1	1:E:662:ILE:HD11	1.23	1.16
1:P:327:SER:HB2	1:P:331:GLY:HA3	1.20	1.16
1:J:459:SER:HB3	1:J:488:THR:HG22	1.31	1.16
1:I:745:LYS:HG3	1:J:753:ILE:HD11	1.96	1.16
1:V:653:ALA:CB	1:W:662:ILE:HD11	1.75	1.16
1:B:595:SER:O	1:B:599:ILE:HD13	1.42	1.16
1:B:20:ASP:HB2	1:B:49:ARG:CG	3.19	1.16
1:J:653:ALA:HB1	1:K:662:ILE:HD11	1.17	1.16
1:Y:113:GLN:HG2	1:Y:150:THR:HB	1.27	1.16
1:Q:381:PRO:HA	1:Q:405:THR:HG22	1.17	1.15
1:N:653:ALA:HB1	1:O:662:ILE:CD1	1.76	1.15
1:W:54:PRO:HB2	1:W:55:PRO:HD3	1.29	1.15
1:A:653:ALA:CB	1:B:662:ILE:HD11	1.75	1.15
1:F:327:SER:HB2	1:F:331:GLY:HA3	1.24	1.15

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:116:LEU:HB3	1:K:117:PRO:HD2	1.48	1.15
1:P:653:ALA:HB1	1:Q:662:ILE:CD1	1.77	1.15
1:M:419:LEU:HG	1:M:420:PRO:HD2	1.09	1.14
1:O:752:ALA:HA	1:O:755:THR:HG22	1.28	1.14
1:E:653:ALA:HB1	1:F:662:ILE:HD11	1.48	1.14
1:B:653:ALA:CB	1:C:662:ILE:HD11	1.76	1.14
1:I:653:ALA:CB	1:J:662:ILE:CD1	2.49	1.14
1:E:381:PRO:HA	1:E:405:THR:HG22	1.69	1.14
1:J:745:LYS:HG3	1:K:753:ILE:CD1	2.81	1.14
1:O:327:SER:HB2	1:O:331:GLY:HA3	1.18	1.14
1:P:419:LEU:HG	1:P:420:PRO:HD2	1.28	1.14
1:G:116:LEU:HB3	1:G:117:PRO:HD2	1.53	1.14
1:R:381:PRO:HA	1:R:405:THR:HG22	1.28	1.14
1:D:419:LEU:HG	1:D:420:PRO:HD2	1.17	1.13
1:Y:745:LYS:HG3	1:Z:753:ILE:CD1	1.79	1.13
1:H:330:GLN:HG3	1:H:379:ALA:CB	2.60	1.13
1:I:653:ALA:HB1	1:J:662:ILE:HD11	1.24	1.13
1:N:474:ARG:HG3	1:N:492:GLU:HB2	1.27	1.13
1:A:116:LEU:HB3	1:A:117:PRO:HD2	1.21	1.13
1:B:653:ALA:CB	1:C:662:ILE:CD1	2.46	1.13
1:L:381:PRO:HA	1:L:405:THR:HG22	1.29	1.12
1:S:653:ALA:CB	1:T:662:ILE:HD11	1.80	1.12
1:C:381:PRO:HA	1:C:405:THR:HG22	1.24	1.12
1:M:116:LEU:HB3	1:M:117:PRO:HD2	1.30	1.12
1:D:77:ILE:HG13	1:D:80:GLN:H	1.03	1.12
1:P:653:ALA:CB	1:Q:662:ILE:CD1	2.28	1.12
1:F:54:PRO:HB2	1:F:55:PRO:HD3	1.19	1.12
1:E:745:LYS:HG3	1:F:753:ILE:CD1	2.40	1.12
1:B:381:PRO:HA	1:B:405:THR:HG22	1.36	1.12
1:G:54:PRO:HB2	1:G:55:PRO:HD3	1.36	1.11
1:L:653:ALA:HB1	1:M:662:ILE:HD11	1.33	1.11
1:O:327:SER:HB2	1:O:331:GLY:CA	1.79	1.11
1:I:176:LEU:HD13	1:I:209:PHE:HD1	1.32	1.11
1:U:382:LEU:HD11	1:U:388:ILE:CD1	1.80	1.11
1:L:73:VAL:H	1:L:84:ARG:HB2	1.09	1.11
1:P:653:ALA:HB1	1:Q:662:ILE:HD11	1.15	1.11
1:B:328:GLU:HA	1:B:328:GLU:OE1	5.54	1.11
1:S:54:PRO:HB2	1:S:55:PRO:HD3	1.25	1.11
1:I:330:GLN:HG3	1:I:379:ALA:HB3	1.05	1.10
1:I:49:ARG:NH2	1:J:8:ILE:HD12	1.64	1.10
1:T:653:ALA:CB	1:U:662:ILE:HD11	1.80	1.10
1:I:36:ILE:HD12	1:I:98:PRO:HB3	1.15	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:18:VAL:HG13	1:L:48:VAL:HG22	1.46	1.10
1:Q:419:LEU:HG	1:Q:420:PRO:HD2	1.32	1.10
1:C:116:LEU:HB3	1:C:117:PRO:HD2	1.60	1.10
1:E:419:LEU:HG	1:E:420:PRO:HD2	1.35	1.10
1:F:419:LEU:HG	1:F:420:PRO:HD2	1.33	1.10
1:V:653:ALA:HB1	1:W:662:ILE:HD11	1.13	1.10
1:W:381:PRO:HA	1:W:405:THR:HG22	1.34	1.10
1:A:176:LEU:HD13	1:A:209:PHE:HD1	1.40	1.10
1:B:327:SER:HB2	1:B:331:GLY:HA3	1.83	1.10
1:J:381:PRO:HA	1:J:405:THR:HG22	1.47	1.10
1:S:381:PRO:HA	1:S:405:THR:HG22	1.30	1.10
1:W:419:LEU:HG	1:W:420:PRO:HD2	1.32	1.10
1:L:653:ALA:CB	1:M:662:ILE:HD11	1.85	1.10
1:B:330:GLN:HB3	1:B:379:ALA:HB3	1.31	1.10
1:G:653:ALA:CB	1:H:662:ILE:HD11	2.03	1.10
1:K:653:ALA:CB	1:L:662:ILE:CD1	2.30	1.10
1:B:116:LEU:HB3	1:B:117:PRO:HD2	1.31	1.09
1:F:381:PRO:HA	1:F:405:THR:HG22	1.53	1.09
1:F:452:ARG:HH11	1:F:452:ARG:HG3	1.84	1.09
1:T:459:SER:HB3	1:T:488:THR:HG22	1.34	1.09
1:L:328:GLU:HG3	1:L:329:GLN:H	1.05	1.09
1:B:49:ARG:HH12	1:C:10:ILE:HG23	9.90	1.09
1:C:287:PRO:HA	1:C:314:GLU:OE2	1.53	1.09
1:D:327:SER:HB2	1:D:331:GLY:HA3	1.34	1.09
1:G:419:LEU:HG	1:G:420:PRO:HD2	1.24	1.09
1:B:176:LEU:HD13	1:B:209:PHE:HD1	1.11	1.09
1:C:328:GLU:HA	1:C:328:GLU:OE1	1.52	1.09
1:H:381:PRO:HA	1:H:405:THR:HG22	1.40	1.09
1:J:419:LEU:HG	1:J:420:PRO:HD2	1.11	1.09
1:K:73:VAL:H	1:K:84:ARG:HB2	1.07	1.09
1:N:18:VAL:HG13	1:N:48:VAL:HG22	1.35	1.09
1:U:330:GLN:HG3	1:U:379:ALA:HB3	1.26	1.09
1:G:381:PRO:HA	1:G:405:THR:HG22	1.78	1.09
1:K:653:ALA:CB	1:L:662:ILE:HD11	1.81	1.09
1:N:459:SER:HB3	1:N:488:THR:HG22	1.25	1.09
1:O:116:LEU:HB3	1:O:117:PRO:HD2	1.31	1.09
1:I:381:PRO:HA	1:I:405:THR:HG22	1.28	1.09
1:K:459:SER:HB3	1:K:488:THR:HG22	1.63	1.09
1:L:116:LEU:HB3	1:L:117:PRO:HD2	1.79	1.09
1:R:330:GLN:HG3	1:R:379:ALA:CB	1.82	1.09
1:E:54:PRO:HB2	1:E:55:PRO:HD3	1.33	1.08
1:M:18:VAL:HG13	1:M:48:VAL:HG22	1.44	1.08

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:394:LYS:HG2	1:O:329:GLN:HG3	1.35	1.08
1:B:18:VAL:HG13	1:B:48:VAL:HG22	1.46	1.08
1:F:653:ALA:HB1	1:G:662:ILE:HD11	1.78	1.08
1:K:164:GLN:NE2	1:K:204:TYR:HB2	1.68	1.08
1:K:419:LEU:HG	1:K:420:PRO:HD2	1.36	1.08
1:V:330:GLN:HG3	1:V:379:ALA:HB3	1.09	1.08
1:G:18:VAL:HG13	1:G:48:VAL:HG22	1.43	1.08
1:Q:36:ILE:HD12	1:Q:98:PRO:HB3	1.12	1.08
1:Y:273:ILE:HD13	1:Y:316:LEU:HD11	1.35	1.08
1:G:338:GLN:HB2	1:G:339:PRO:HD3	1.34	1.08
1:P:221:LEU:HD22	1:P:256:THR:HG21	1.31	1.08
1:G:176:LEU:HD13	1:G:209:PHE:HD1	1.12	1.08
1:U:116:LEU:HB3	1:U:117:PRO:HD2	1.23	1.08
1:C:70:GLN:HB3	1:C:104:VAL:O	2.02	1.08
1:U:419:LEU:HG	1:U:420:PRO:HD2	1.31	1.08
1:C:54:PRO:HB2	1:C:55:PRO:HD3	1.35	1.08
1:M:221:LEU:HD22	1:M:256:THR:HG21	1.36	1.08
1:S:132:LYS:HZ1	1:S:152:ILE:HD12	1.16	1.08
1:V:18:VAL:HG13	1:V:48:VAL:HG22	1.35	1.08
1:H:330:GLN:HG3	1:H:379:ALA:HB3	1.87	1.07
1:K:109:ILE:HD12	1:K:153:PRO:HB2	1.35	1.07
1:Y:745:LYS:HG3	1:Z:753:ILE:HD13	1.36	1.07
1:J:273:ILE:HD13	1:J:316:LEU:HD11	1.79	1.07
1:I:394:LYS:HG2	1:J:329:GLN:HG3	2.13	1.07
1:R:77:ILE:HG13	1:R:79:GLY:H	1.09	1.07
1:D:381:PRO:HA	1:D:405:THR:HG22	1.29	1.07
1:G:36:ILE:CD1	1:G:98:PRO:HB3	1.83	1.07
1:K:328:GLU:HA	1:K:328:GLU:OE1	4.60	1.07
1:G:601:MET:HG2	1:G:622:ALA:HB2	1.37	1.06
1:X:653:ALA:HB1	1:Y:662:ILE:HD11	1.14	1.06
1:Y:653:ALA:CB	1:Z:662:ILE:HD11	1.85	1.06
1:R:109:ILE:HD12	1:R:153:PRO:HG2	1.34	1.06
1:R:419:LEU:HG	1:R:420:PRO:HD2	1.13	1.06
1:B:459:SER:HB3	1:B:488:THR:HG22	1.45	1.06
1:J:543:TYR:CE2	1:J:575:ILE:HG21	1.90	1.06
1:J:653:ALA:CB	1:K:662:ILE:HD11	1.86	1.06
1:M:5:GLU:HG2	1:M:43:VAL:HG21	1.82	1.06
1:H:116:LEU:HB3	1:H:117:PRO:HD2	1.37	1.06
1:K:109:ILE:HD12	1:K:153:PRO:CB	1.85	1.06
1:Y:54:PRO:HB2	1:Y:55:PRO:HD3	1.08	1.06
1:N:328:GLU:OE1	1:N:362:PRO:HA	1.56	1.06
1:U:330:GLN:HG3	1:U:379:ALA:CB	1.85	1.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:116:LEU:HB3	1:N:117:PRO:HD2	1.34	1.06
1:C:653:ALA:CB	1:D:662:ILE:HD11	2.47	1.06
1:K:381:PRO:HA	1:K:405:THR:HG22	1.59	1.06
1:L:653:ALA:HB1	1:M:662:ILE:CD1	1.85	1.06
1:M:327:SER:HB2	1:M:331:GLY:HA3	1.35	1.06
1:R:77:ILE:HG13	1:R:79:GLY:N	1.71	1.06
1:E:116:LEU:HB3	1:E:117:PRO:HD2	1.35	1.06
1:I:116:LEU:HB3	1:I:117:PRO:HD2	1.46	1.06
1:S:653:ALA:HB1	1:T:662:ILE:CD1	1.85	1.06
1:T:653:ALA:HB1	1:U:662:ILE:HD11	1.11	1.06
1:N:227:LEU:HB2	1:N:251:VAL:HG12	1.35	1.05
1:R:459:SER:HB3	1:R:488:THR:HG22	1.38	1.05
1:M:381:PRO:HA	1:M:405:THR:HG22	1.35	1.05
1:H:394:LYS:HG2	1:I:329:GLN:HG3	1.37	1.05
1:J:653:ALA:HB1	1:K:662:ILE:CD1	1.86	1.05
1:R:36:ILE:O	1:R:36:ILE:HD13	1.55	1.05
1:R:9:ARG:HH12	1:R:36:ILE:HA	1.15	1.05
1:C:176:LEU:HD13	1:C:209:PHE:HD1	1.36	1.05
1:I:459:SER:HB3	1:I:488:THR:HG22	1.48	1.05
1:L:326:LEU:HD21	1:L:333:LEU:HG	1.56	1.05
1:Q:327:SER:HB2	1:Q:331:GLY:HA3	1.36	1.05
1:U:18:VAL:HG13	1:U:48:VAL:HG22	1.34	1.05
1:C:653:ALA:CB	1:D:662:ILE:CD1	3.24	1.05
1:J:132:LYS:HZ1	1:J:152:ILE:HD12	2.67	1.05
1:Y:381:PRO:HA	1:Y:405:THR:HG22	1.36	1.05
1:E:14:HIS:HB3	1:E:56:ARG:HB2	1.64	1.05
1:L:653:ALA:CB	1:M:662:ILE:CD1	2.35	1.05
1:M:459:SER:HB3	1:M:488:THR:HG22	1.37	1.05
1:Q:130:GLU:HB2	1:Q:136:LYS:HA	1.39	1.05
1:D:54:PRO:HB2	1:D:55:PRO:HD3	1.39	1.04
1:T:394:LYS:HG2	1:U:329:GLN:HG3	1.38	1.04
1:X:73:VAL:H	1:X:84:ARG:HB2	1.21	1.04
1:D:60:ILE:HD11	1:D:95:ASP:O	1.56	1.04
1:E:459:SER:HB3	1:E:488:THR:HG22	1.40	1.04
1:G:36:ILE:HD12	1:G:98:PRO:HB3	1.04	1.04
1:N:132:LYS:NZ	1:N:152:ILE:CD1	2.21	1.04
1:Z:116:LEU:HB3	1:Z:117:PRO:HD2	1.31	1.04
1:E:653:ALA:CB	1:F:662:ILE:HD11	1.87	1.04
1:H:745:LYS:HG3	1:I:753:ILE:CD1	1.96	1.04
1:N:9:ARG:HH12	1:N:36:ILE:HA	1.22	1.04
1:M:167:VAL:HB	1:M:201:VAL:O	6.98	1.04
1:M:328:GLU:OE1	1:M:328:GLU:HA	2.39	1.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:653:ALA:HB1	1:O:662:ILE:HD11	1.40	1.04
1:E:130:GLU:H	1:E:137:VAL:HG12	1.14	1.04
1:F:328:GLU:HG3	1:F:329:GLN:H	4.49	1.04
1:I:419:LEU:HG	1:I:420:PRO:HD2	1.37	1.03
1:O:459:SER:HB3	1:O:488:THR:HG22	1.37	1.03
1:S:338:GLN:HB2	1:S:339:PRO:HD3	1.38	1.03
1:A:54:PRO:HB2	1:A:55:PRO:HD3	1.67	1.03
1:P:281:TYR:HE1	1:P:321:GLN:HB2	1.20	1.03
1:R:54:PRO:HB2	1:R:55:PRO:HD3	1.35	1.03
1:L:337:LEU:HD22	1:L:357:TRP:HZ3	1.24	1.03
1:P:327:SER:HB2	1:P:331:GLY:CA	1.87	1.03
1:U:381:PRO:HA	1:U:405:THR:HG22	1.41	1.03
1:S:132:LYS:NZ	1:S:152:ILE:HD12	1.72	1.03
1:C:113:GLN:HG2	1:C:150:THR:HB	2.13	1.03
1:O:381:PRO:HA	1:O:405:THR:HG22	1.04	1.03
1:Z:113:GLN:HG2	1:Z:150:THR:HB	1.41	1.03
1:B:221:LEU:HD22	1:B:256:THR:HB	1.40	1.03
1:G:327:SER:HB2	1:G:331:GLY:HA3	1.45	1.03
1:T:18:VAL:HG13	1:T:48:VAL:HG22	1.37	1.03
1:X:394:LYS:HG2	1:Y:329:GLN:HG3	1.41	1.03
1:K:132:LYS:HZ1	1:K:152:ILE:HD12	2.52	1.03
1:E:73:VAL:H	1:E:84:ARG:HB2	3.16	1.03
1:D:777:LEU:HD11	1:E:783:LYS:HB2	1.95	1.03
1:Y:653:ALA:CB	1:Z:662:ILE:CD1	2.35	1.03
1:B:327:SER:HB2	1:B:331:GLY:CA	2.32	1.02
1:H:54:PRO:HB2	1:H:55:PRO:HD3	1.56	1.02
1:S:394:LYS:HG2	1:T:329:GLN:HG3	1.34	1.02
1:G:327:SER:HB2	1:G:331:GLY:CA	2.02	1.02
1:W:327:SER:HB2	1:W:331:GLY:HA3	1.39	1.02
1:X:770:LEU:HD13	1:X:774:ARG:HH22	1.24	1.02
1:B:394:LYS:HG2	1:C:329:GLN:HG3	1.40	1.02
1:F:18:VAL:HG13	1:F:48:VAL:HG22	1.44	1.02
1:Y:54:PRO:HB2	1:Y:55:PRO:CD	1.90	1.02
1:V:116:LEU:HB3	1:V:117:PRO:HD2	1.38	1.02
1:C:481:VAL:HG11	1:C:487:VAL:HG13	1.42	1.02
1:F:459:SER:HB3	1:F:488:THR:HG22	1.54	1.02
1:N:381:PRO:HA	1:N:405:THR:HG22	1.37	1.02
1:H:745:LYS:HG3	1:I:753:ILE:HD11	1.54	1.02
1:P:381:PRO:CA	1:P:405:THR:HG22	1.90	1.02
1:P:73:VAL:H	1:P:84:ARG:HB2	1.24	1.02
1:D:132:LYS:HZ1	1:D:152:ILE:HD12	3.26	1.02
1:I:132:LYS:HZ1	1:I:152:ILE:HD12	2.34	1.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:653:ALA:HB1	1:C:662:ILE:HD11	1.05	1.02
1:D:132:LYS:NZ	1:D:152:ILE:HD12	2.94	1.02
1:P:283:VAL:HG22	1:P:301:VAL:HG12	1.40	1.02
1:D:745:LYS:HG3	1:E:753:ILE:CD1	1.90	1.02
1:N:221:LEU:HD22	1:N:256:THR:HG21	1.40	1.02
1:R:36:ILE:HD12	1:R:98:PRO:HB3	1.03	1.02
1:F:601:MET:HG2	1:F:622:ALA:HB2	1.42	1.01
1:Q:36:ILE:HD13	1:Q:36:ILE:O	1.58	1.01
1:E:109:ILE:HD12	1:E:153:PRO:HB2	1.41	1.01
1:U:54:PRO:HB2	1:U:55:PRO:HD3	1.40	1.01
1:Z:54:PRO:HB2	1:Z:55:PRO:HD3	1.41	1.01
1:M:527:ILE:HD11	1:M:541:LEU:HG	1.38	1.01
1:R:36:ILE:CD1	1:R:98:PRO:HB3	1.90	1.01
1:J:176:LEU:HD13	1:J:209:PHE:HD1	1.26	1.01
1:K:175:ARG:HE	1:K:263:VAL:HG22	1.23	1.01
1:S:18:VAL:HG13	1:S:48:VAL:HG22	1.43	1.01
1:H:130:GLU:H	1:H:137:VAL:HG12	5.07	1.01
1:K:653:ALA:HB1	1:L:662:ILE:CD1	1.90	1.01
1:S:459:SER:HB3	1:S:488:THR:HG22	1.40	1.01
1:X:419:LEU:HG	1:X:420:PRO:HD2	1.43	1.01
1:Z:70:GLN:HB3	1:Z:104:VAL:H	1.24	1.01
1:F:327:SER:HB2	1:F:331:GLY:CA	1.90	1.01
1:A:328:GLU:OE1	1:A:362:PRO:HA	1.60	1.01
1:G:579:VAL:HG13	1:G:599:ILE:HD12	2.25	1.01
1:U:9:ARG:HH12	1:U:36:ILE:HA	1.24	1.01
1:G:73:VAL:H	1:G:84:ARG:HB2	1.74	1.01
1:V:54:PRO:HB2	1:V:55:PRO:HD3	1.38	1.01
1:B:167:VAL:HB	1:B:201:VAL:O	1.61	1.01
1:I:771:ILE:HD13	1:I:774:ARG:HH12	1.54	1.01
1:M:273:ILE:HD13	1:M:316:LEU:HD21	2.19	1.01
1:P:328:GLU:OE1	1:P:328:GLU:HA	1.60	1.01
1:D:327:SER:HB2	1:D:331:GLY:CA	1.90	1.01
1:A:18:VAL:HG13	1:A:48:VAL:HG22	1.49	1.00
1:I:327:SER:HB2	1:I:331:GLY:CA	1.91	1.00
1:Q:16:ILE:HD12	1:Q:53:VAL:HG21	1.39	1.00
1:H:653:ALA:HB1	1:I:662:ILE:HD11	1.72	1.00
1:S:109:ILE:HD12	1:S:153:PRO:HG2	1.41	1.00
1:U:326:LEU:HD21	1:U:333:LEU:HG	1.43	1.00
1:Q:18:VAL:HG13	1:Q:48:VAL:HG22	1.41	1.00
1:V:394:LYS:HG2	1:W:329:GLN:HG3	1.44	1.00
1:O:381:PRO:CA	1:O:405:THR:HG22	1.91	1.00
1:Q:109:ILE:HD12	1:Q:153:PRO:HG2	1.41	1.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:326:LEU:HD21	1:Z:333:LEU:HG	1.42	1.00
1:M:327:SER:HB2	1:M:331:GLY:CA	1.90	1.00
1:F:766:ARG:HD3	1:G:772:TYR:HB2	2.17	1.00
1:O:653:ALA:HB1	1:P:662:ILE:HD11	1.38	1.00
1:U:8:ILE:HD13	1:U:40:ASN:HD21	1.24	1.00
1:J:326:LEU:HD21	1:J:333:LEU:HG	1.70	1.00
1:R:109:ILE:HD12	1:R:153:PRO:CG	1.91	1.00
1:S:132:LYS:NZ	1:S:152:ILE:CD1	2.25	1.00
1:F:109:ILE:HD12	1:F:153:PRO:HG2	2.19	1.00
1:K:18:VAL:HG13	1:K:48:VAL:HG22	1.61	1.00
1:L:36:ILE:HD12	1:L:98:PRO:HB3	1.91	1.00
1:Q:332:LEU:HD21	1:Q:407:MET:HB2	1.44	1.00
1:R:109:ILE:CD1	1:R:153:PRO:HG2	1.92	0.99
1:H:328:GLU:OE1	1:H:362:PRO:HA	5.60	0.99
1:I:18:VAL:HG13	1:I:48:VAL:HG22	1.44	0.99
1:I:49:ARG:HH22	1:J:8:ILE:HD12	0.86	0.99
1:W:73:VAL:H	1:W:84:ARG:HB2	1.26	0.99
1:F:653:ALA:CB	1:G:662:ILE:CD1	3.05	0.99
1:N:653:ALA:CB	1:O:662:ILE:CD1	2.40	0.99
1:P:381:PRO:HA	1:P:405:THR:HG22	1.00	0.99
1:J:36:ILE:HD13	1:J:36:ILE:O	1.63	0.99
1:K:9:ARG:HH12	1:K:36:ILE:HA	1.35	0.99
1:A:327:SER:HB2	1:A:331:GLY:HA3	1.43	0.99
1:A:653:ALA:HB1	1:B:662:ILE:HD11	1.45	0.99
1:L:580:ARG:HH22	1:M:595:SER:HB2	1.65	0.99
1:F:381:PRO:HA	1:F:405:THR:CG2	2.16	0.99
1:H:109:ILE:CD1	1:H:153:PRO:HB2	1.91	0.99
1:I:49:ARG:HH22	1:J:8:ILE:CD1	1.75	0.99
1:J:311:GLN:HB3	1:J:312:PRO:HD2	1.55	0.99
1:U:73:VAL:H	1:U:84:ARG:HB2	1.26	0.99
1:W:221:LEU:HD22	1:W:256:THR:HB	1.45	0.99
1:L:115:VAL:O	1:L:118:ASN:HB3	1.62	0.99
1:F:381:PRO:CA	1:F:405:THR:HG22	2.20	0.99
1:M:328:GLU:OE1	1:M:362:PRO:HA	1.62	0.99
1:M:481:VAL:HG11	1:M:487:VAL:HG13	1.74	0.99
1:Q:337:LEU:HD22	1:Q:357:TRP:HZ3	1.28	0.99
1:R:221:LEU:HD22	1:R:256:THR:HG21	1.44	0.99
1:P:381:PRO:HA	1:P:405:THR:CG2	1.93	0.99
1:R:332:LEU:HD21	1:R:407:MET:HB2	1.41	0.99
1:L:167:VAL:HB	1:L:201:VAL:O	6.84	0.98
1:X:273:ILE:HD13	1:X:316:LEU:HD11	1.45	0.98
1:A:1:MET:HE3	1:A:47:PRO:HB3	1.61	0.98

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:176:LEU:HD13	1:M:209:PHE:HD1	1.27	0.98
1:O:175:ARG:HE	1:O:263:VAL:HG22	1.25	0.98
1:Q:326:LEU:HD21	1:Q:333:LEU:HG	1.45	0.98
1:A:72:SER:HB3	1:A:84:ARG:HH21	1.76	0.98
1:D:380:ILE:HD12	1:D:388:ILE:HD13	5.08	0.98
1:J:116:LEU:HB3	1:J:117:PRO:HD2	1.45	0.98
1:Y:175:ARG:HE	1:Y:263:VAL:HG22	1.21	0.98
1:A:132:LYS:HZ1	1:A:152:ILE:HD12	1.27	0.98
1:F:116:LEU:HB3	1:F:117:PRO:HD2	1.47	0.98
1:K:326:LEU:HD21	1:K:333:LEU:HG	1.45	0.98
1:S:653:ALA:HB1	1:T:662:ILE:HD11	0.99	0.98
1:Z:18:VAL:HG13	1:Z:48:VAL:HG22	1.43	0.98
1:L:176:LEU:HD13	1:L:209:PHE:HD1	1.27	0.98
1:M:54:PRO:HB2	1:M:55:PRO:HD3	1.53	0.98
1:N:338:GLN:HB2	1:N:339:PRO:HD3	1.45	0.98
1:G:36:ILE:HD12	1:G:98:PRO:CB	1.93	0.98
1:T:54:PRO:HB2	1:T:55:PRO:HD3	1.45	0.98
1:Y:328:GLU:HG3	1:Y:329:GLN:H	1.23	0.98
1:E:419:LEU:HG	1:E:420:PRO:CD	2.25	0.98
1:M:408:LEU:HD21	1:M:414:LEU:HD12	1.46	0.98
1:I:328:GLU:OE1	1:I:362:PRO:HA	1.64	0.98
1:U:653:ALA:HB1	1:V:662:ILE:CD1	1.93	0.98
1:U:653:ALA:HB1	1:V:662:ILE:HD11	0.99	0.98
1:C:481:VAL:HG11	1:C:487:VAL:CG1	1.93	0.98
1:D:394:LYS:HG2	1:E:329:GLN:HG3	1.85	0.98
1:R:73:VAL:H	1:R:84:ARG:HG3	1.28	0.98
1:X:281:TYR:HE1	1:X:321:GLN:HB2	1.26	0.98
1:A:120:ALA:HB2	1:A:164:GLN:HE22	1.63	0.97
1:D:116:LEU:HB3	1:D:117:PRO:HD2	1.43	0.97
1:I:355:ASP:HA	1:J:328:GLU:HG3	1.45	0.97
1:U:8:ILE:HD13	1:U:40:ASN:ND2	1.78	0.97
1:W:18:VAL:HG13	1:W:48:VAL:HG22	1.41	0.97
1:W:653:ALA:CB	1:X:662:ILE:HD11	1.93	0.97
1:C:527:ILE:HD11	1:C:539:LEU:HG	1.43	0.97
1:G:459:SER:HB3	1:G:488:THR:HG22	1.65	0.97
1:H:176:LEU:HD13	1:H:209:PHE:HD1	1.59	0.97
1:W:327:SER:HB2	1:W:331:GLY:CA	1.94	0.97
1:C:1:MET:HE3	1:C:47:PRO:HB3	1.86	0.97
1:D:9:ARG:HH12	1:D:36:ILE:HA	1.48	0.97
1:E:380:ILE:HD12	1:E:388:ILE:HD13	3.38	0.97
1:X:327:SER:HB2	1:X:331:GLY:HA3	1.46	0.97
1:A:653:ALA:HB3	1:B:662:ILE:HD11	1.42	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:115:VAL:O	1:C:118:ASN:HB3	1.63	0.97
1:C:527:ILE:HD13	1:C:529:ILE:HG23	1.45	0.97
1:M:287:PRO:HA	1:M:314:GLU:OE2	1.63	0.97
1:R:14:HIS:HB3	1:R:56:ARG:HB2	1.45	0.97
1:C:327:SER:HB2	1:C:331:GLY:CA	1.94	0.97
1:G:394:LYS:HG2	1:H:329:GLN:HG3	1.81	0.97
1:H:653:ALA:CB	1:I:662:ILE:HD11	1.94	0.97
1:K:273:ILE:HD13	1:K:316:LEU:HD11	2.20	0.97
1:Q:164:GLN:CD	1:Q:204:TYR:HB3	1.83	0.97
1:Y:653:ALA:HB1	1:Z:662:ILE:HD11	1.44	0.97
1:E:109:ILE:HD12	1:E:153:PRO:CB	1.94	0.97
1:L:109:ILE:HD12	1:L:153:PRO:CB	1.97	0.97
1:M:653:ALA:HB1	1:N:662:ILE:HD11	1.41	0.97
1:J:332:LEU:HB2	1:J:377:ARG:HB3	1.67	0.97
1:L:338:GLN:HB2	1:L:339:PRO:HD3	1.45	0.97
1:C:327:SER:HB2	1:C:331:GLY:HA3	1.46	0.97
1:H:109:ILE:HD12	1:H:153:PRO:CB	1.95	0.97
1:W:511:ARG:HH22	1:W:517:LEU:HD11	1.29	0.97
1:L:543:TYR:CE2	1:L:575:ILE:HG21	2.00	0.97
1:L:9:ARG:HH12	1:L:36:ILE:HA	1.30	0.97
1:M:474:ARG:HG3	1:M:492:GLU:HB2	1.47	0.97
1:T:167:VAL:HB	1:T:201:VAL:O	1.65	0.97
1:Z:13:TYR:O	1:Z:36:ILE:HD13	1.64	0.97
1:F:326:LEU:HD21	1:F:333:LEU:HG	1.58	0.96
1:J:260:VAL:HB	1:J:263:VAL:HA	1.65	0.96
1:J:587:THR:HG23	1:J:590:ASP:HB3	1.98	0.96
1:B:476:LYS:HE2	1:C:485:GLU:HG3	2.05	0.96
1:F:394:LYS:HG2	1:G:329:GLN:HG3	1.59	0.96
1:E:36:ILE:HG21	1:E:99:LEU:HD13	1.42	0.96
1:O:167:VAL:HB	1:O:201:VAL:O	1.63	0.96
1:B:67:ARG:HH21	1:B:107:LYS:HA	1.28	0.96
1:Z:176:LEU:HB2	1:Z:196:TRP:HB2	1.47	0.96
1:B:287:PRO:HA	1:B:314:GLU:OE2	2.07	0.96
1:C:14:HIS:HB3	1:C:56:ARG:HB2	1.44	0.96
1:F:182:CYS:O	1:F:190:ARG:HB2	1.68	0.96
1:N:54:PRO:HB2	1:N:55:PRO:HD3	1.44	0.96
1:O:381:PRO:HA	1:O:405:THR:CG2	1.95	0.96
1:A:381:PRO:HA	1:A:405:THR:HG22	1.47	0.96
1:D:224:LYS:HA	1:D:272:PRO:HG3	1.48	0.96
1:J:9:ARG:HH12	1:J:36:ILE:HA	1.27	0.96
1:N:408:LEU:HD21	1:N:414:LEU:HD12	1.45	0.96
1:P:185:ARG:HH22	1:P:207:ALA:HB3	1.27	0.96

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:653:ALA:CB	1:P:662:ILE:HD11	1.95	0.96
1:W:653:ALA:CB	1:X:662:ILE:CD1	2.43	0.96
1:V:419:LEU:HG	1:V:420:PRO:HD2	1.46	0.96
1:Q:381:PRO:HA	1:Q:405:THR:CG2	1.95	0.96
1:Y:653:ALA:HB1	1:Z:662:ILE:CD1	1.94	0.96
1:G:115:VAL:H	1:G:118:ASN:HD22	1.30	0.96
1:H:109:ILE:HD12	1:H:153:PRO:HB2	1.48	0.96
1:G:777:LEU:HD11	1:H:783:LYS:HB2	2.00	0.95
1:Y:220:ILE:HD11	1:Y:257:GLU:H	1.28	0.95
1:F:330:GLN:HB3	1:F:379:ALA:HB3	1.45	0.95
1:V:511:ARG:HH22	1:V:517:LEU:HD11	1.31	0.95
1:G:109:ILE:HD12	1:G:153:PRO:CB	2.25	0.95
1:G:18:VAL:H	1:G:48:VAL:HG13	1.31	0.95
1:H:419:LEU:HG	1:H:420:PRO:HD2	1.48	0.95
1:I:36:ILE:HD13	1:I:36:ILE:O	1.66	0.95
1:M:419:LEU:HG	1:M:420:PRO:CD	1.97	0.95
1:Q:9:ARG:HH12	1:Q:36:ILE:HA	1.29	0.95
1:D:328:GLU:OE1	1:D:328:GLU:HA	1.63	0.95
1:D:653:ALA:CB	1:E:662:ILE:CD1	2.62	0.95
1:H:18:VAL:HG13	1:H:48:VAL:HG22	1.54	0.95
1:W:116:LEU:HB3	1:W:117:PRO:HD2	1.48	0.95
1:B:120:ALA:HB3	1:B:162:ILE:HG13	1.47	0.95
1:B:326:LEU:HD21	1:B:333:LEU:HG	1.58	0.95
1:D:129:PHE:O	1:D:137:VAL:HB	1.65	0.95
1:J:394:LYS:HG2	1:K:329:GLN:HG3	1.84	0.95
1:P:18:VAL:HG13	1:P:48:VAL:HG22	1.47	0.95
1:X:130:GLU:H	1:X:137:VAL:HG13	1.29	0.95
1:X:337:LEU:HD22	1:X:357:TRP:HZ3	1.28	0.95
1:Z:115:VAL:H	1:Z:118:ASN:HD22	1.12	0.95
1:Z:337:LEU:HD22	1:Z:357:TRP:HZ3	1.28	0.95
1:D:77:ILE:HG13	1:D:80:GLN:N	1.81	0.95
1:Z:601:MET:HG2	1:Z:622:ALA:HB2	1.47	0.95
1:C:18:VAL:HG13	1:C:48:VAL:HG22	1.48	0.95
1:G:381:PRO:HA	1:G:405:THR:CG2	2.32	0.95
1:J:745:LYS:HG3	1:K:753:ILE:HD13	2.33	0.95
1:P:287:PRO:HA	1:P:314:GLU:OE2	1.66	0.95
1:X:9:ARG:HH12	1:X:36:ILE:HA	1.28	0.95
1:N:287:PRO:HA	1:N:314:GLU:OE2	1.67	0.95
1:R:287:PRO:HA	1:R:314:GLU:OE2	1.67	0.95
1:Y:115:VAL:H	1:Y:118:ASN:HD22	1.00	0.95
1:C:174:LEU:HB2	1:C:198:VAL:HB	1.49	0.95
1:F:653:ALA:HB1	1:G:662:ILE:CD1	2.73	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:221:LEU:HD22	1:O:256:THR:HG21	1.49	0.95
1:V:338:GLN:HB2	1:V:339:PRO:HD3	1.49	0.95
1:B:176:LEU:HD13	1:B:209:PHE:CD1	2.01	0.94
1:C:653:ALA:HB1	1:D:662:ILE:HD11	1.92	0.94
1:I:327:SER:HB2	1:I:331:GLY:HA3	1.44	0.94
1:S:419:LEU:HG	1:S:420:PRO:HD2	1.47	0.94
1:A:337:LEU:HD22	1:A:357:TRP:HZ3	1.52	0.94
1:V:123:LEU:HG	1:V:143:TRP:HB2	1.49	0.94
1:C:330:GLN:HB3	1:C:379:ALA:HB3	1.47	0.94
1:D:221:LEU:HD22	1:D:256:THR:HG21	2.24	0.94
1:C:580:ARG:HH22	1:D:595:SER:HB2	1.89	0.94
1:G:67:ARG:HH21	1:G:107:LYS:HA	1.72	0.94
1:S:14:HIS:HB3	1:S:56:ARG:HB2	1.45	0.94
1:I:771:ILE:HD13	1:I:774:ARG:NH1	1.85	0.94
1:X:116:LEU:HB3	1:X:117:PRO:HD2	1.47	0.94
1:A:9:ARG:HH12	1:A:36:ILE:HA	1.31	0.94
1:L:175:ARG:HE	1:L:263:VAL:HG22	1.61	0.94
1:L:287:PRO:HA	1:L:314:GLU:OE2	1.67	0.94
1:L:1:MET:CE	1:L:47:PRO:HB3	2.05	0.94
1:L:1:MET:HE3	1:L:47:PRO:HB3	1.64	0.94
1:M:116:LEU:HB3	1:M:117:PRO:CD	2.09	0.94
1:P:130:GLU:H	1:P:137:VAL:HG22	1.27	0.94
1:X:115:VAL:H	1:X:118:ASN:HD22	1.08	0.94
1:E:9:ARG:HH12	1:E:36:ILE:HA	1.32	0.94
1:Q:224:LYS:HA	1:Q:272:PRO:HG3	1.50	0.94
1:U:14:HIS:HB3	1:U:56:ARG:HB2	1.48	0.94
1:U:287:PRO:HA	1:U:314:GLU:OE2	1.67	0.94
1:A:239:ARG:NH2	1:A:257:GLU:HG2	1.83	0.94
1:C:332:LEU:HD21	1:C:407:MET:CB	1.97	0.94
1:C:1:MET:CE	1:C:47:PRO:HB3	2.16	0.94
1:D:70:GLN:HB3	1:D:104:VAL:O	1.67	0.94
1:I:227:LEU:HB2	1:I:251:VAL:HG12	1.47	0.94
1:J:328:GLU:OE1	1:J:362:PRO:HA	6.61	0.94
1:N:49:ARG:NH2	1:O:8:ILE:HD12	1.81	0.94
1:R:653:ALA:CB	1:S:662:ILE:HD11	1.96	0.94
1:Z:381:PRO:HA	1:Z:405:THR:HG22	1.48	0.94
1:I:14:HIS:NE2	1:I:16:ILE:HD11	3.64	0.94
1:R:130:GLU:HB2	1:R:136:LYS:HA	1.50	0.94
1:T:18:VAL:H	1:T:48:VAL:HG13	1.30	0.94
1:T:653:ALA:HB1	1:U:662:ILE:CD1	1.96	0.94
1:Y:115:VAL:H	1:Y:118:ASN:ND2	1.65	0.94
1:Y:459:SER:HB3	1:Y:488:THR:HG22	1.50	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:332:LEU:HD21	1:F:407:MET:CB	2.03	0.94
1:K:54:PRO:HB2	1:K:55:PRO:HD3	1.62	0.94
1:L:332:LEU:HD21	1:L:407:MET:HB2	1.77	0.94
1:O:130:GLU:HA	1:O:137:VAL:H	1.31	0.94
1:B:384:GLN:HE21	1:B:384:GLN:H	1.15	0.94
1:F:281:TYR:CE1	1:F:321:GLN:HB2	2.03	0.94
1:S:151:TYR:CD2	1:S:152:ILE:HD13	2.02	0.94
1:H:408:LEU:HD21	1:H:414:LEU:HD12	2.68	0.94
1:I:115:VAL:H	1:I:118:ASN:HD22	1.42	0.94
1:I:54:PRO:HB2	1:I:55:PRO:HD3	1.60	0.94
1:Q:381:PRO:CA	1:Q:405:THR:HG22	1.97	0.94
1:C:459:SER:HB3	1:C:488:THR:HG22	1.46	0.93
1:H:115:VAL:H	1:H:118:ASN:HD22	1.48	0.93
1:L:459:SER:HB3	1:L:488:THR:HG22	1.50	0.93
1:M:332:LEU:HB2	1:M:377:ARG:HB3	1.50	0.93
1:R:337:LEU:HD22	1:R:357:TRP:HZ3	1.31	0.93
1:S:755:THR:HG21	1:T:761:ARG:HG2	1.48	0.93
1:C:9:ARG:HH12	1:C:36:ILE:HA	1.31	0.93
1:E:745:LYS:HG3	1:F:753:ILE:HD11	1.86	0.93
1:J:745:LYS:HG3	1:K:753:ILE:HD11	2.44	0.93
1:P:116:LEU:HB3	1:P:117:PRO:HD2	1.50	0.93
1:P:182:CYS:O	1:P:190:ARG:HB2	1.67	0.93
1:E:394:LYS:HG2	1:F:329:GLN:HG3	1.69	0.93
1:F:359:ILE:HD13	1:F:359:ILE:H	1.32	0.93
1:L:394:LYS:HG2	1:M:329:GLN:HG3	1.48	0.93
1:U:653:ALA:CB	1:V:662:ILE:CD1	2.46	0.93
1:C:273:ILE:HD13	1:C:316:LEU:HD11	1.49	0.93
1:D:18:VAL:HG13	1:D:48:VAL:HG22	1.51	0.93
1:H:174:LEU:HB2	1:H:198:VAL:HB	1.48	0.93
1:T:755:THR:HG21	1:U:761:ARG:HG2	1.47	0.93
1:H:273:ILE:HG13	1:H:308:PHE:HB3	2.13	0.93
1:I:1:MET:CE	1:I:47:PRO:HB3	1.99	0.93
1:J:327:SER:O	1:J:328:GLU:HB3	1.68	0.93
1:A:73:VAL:H	1:A:84:ARG:HB2	1.41	0.93
1:E:18:VAL:HG13	1:E:48:VAL:HG22	1.50	0.93
1:H:653:ALA:HB3	1:I:662:ILE:HD11	1.47	0.93
1:O:9:ARG:HH12	1:O:36:ILE:HA	1.31	0.93
1:Q:330:GLN:HB3	1:Q:379:ALA:HB3	1.51	0.93
1:A:132:LYS:NZ	1:A:152:ILE:HD12	1.83	0.93
1:E:115:VAL:O	1:E:118:ASN:HB3	1.96	0.93
1:E:175:ARG:HE	1:E:263:VAL:HG22	1.33	0.93
1:Q:221:LEU:HD22	1:Q:256:THR:HG21	1.51	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:653:ALA:CB	1:K:662:ILE:CD1	2.44	0.93
1:S:260:VAL:HB	1:S:263:VAL:HA	1.49	0.93
1:T:381:PRO:HA	1:T:405:THR:HG22	1.48	0.93
1:T:580:ARG:HH22	1:U:595:SER:HB2	1.34	0.93
1:C:85:HIS:NE2	1:C:102:GLY:HA3	2.10	0.93
1:E:260:VAL:HA	1:E:264:TYR:H	1.49	0.93
1:L:227:LEU:HB2	1:L:251:VAL:HG12	1.50	0.93
1:R:601:MET:HG2	1:R:622:ALA:HB2	1.52	0.93
1:X:54:PRO:HB2	1:X:55:PRO:HD3	1.48	0.93
1:Y:182:CYS:O	1:Y:190:ARG:HB2	1.67	0.93
1:C:708:GLU:HG2	1:D:716:VAL:HG11	1.49	0.92
1:E:176:LEU:HD13	1:E:209:PHE:CD1	2.20	0.92
1:H:9:ARG:HH12	1:H:36:ILE:HA	1.32	0.92
1:O:481:VAL:HG11	1:O:487:VAL:HG13	1.50	0.92
1:Q:116:LEU:HB3	1:Q:117:PRO:HD2	1.48	0.92
1:W:115:VAL:H	1:W:118:ASN:HD22	1.02	0.92
1:G:19:LEU:HD23	1:G:32:PRO:HB2	1.52	0.92
1:T:481:VAL:HG11	1:T:487:VAL:HG13	1.51	0.92
1:G:332:LEU:HD21	1:G:407:MET:CB	2.11	0.92
1:I:330:GLN:CG	1:I:379:ALA:HB3	1.99	0.92
1:Q:175:ARG:HE	1:Q:263:VAL:HG22	1.32	0.92
1:A:1:MET:CE	1:A:47:PRO:HB3	2.11	0.92
1:L:332:LEU:HD21	1:L:407:MET:CB	2.16	0.92
1:O:481:VAL:HG11	1:O:487:VAL:CG1	1.99	0.92
1:U:116:LEU:HB3	1:U:117:PRO:CD	1.99	0.92
1:V:36:ILE:HD12	1:V:98:PRO:HB3	1.51	0.92
1:Y:18:VAL:HG13	1:Y:48:VAL:HG22	1.50	0.92
1:E:227:LEU:HB2	1:E:251:VAL:HG12	1.48	0.92
1:L:115:VAL:H	1:L:118:ASN:HD22	1.84	0.92
1:M:472:ASP:HA	1:M:493:GLU:HB3	1.82	0.92
1:O:221:LEU:HD13	1:O:256:THR:HB	1.50	0.92
1:V:601:MET:HG2	1:V:622:ALA:HB2	1.51	0.92
1:X:653:ALA:CB	1:Y:662:ILE:CD1	2.47	0.92
1:W:394:LYS:HG2	1:X:329:GLN:HG3	1.50	0.92
1:Z:459:SER:HB3	1:Z:488:THR:HG22	1.52	0.92
1:A:18:VAL:H	1:A:48:VAL:HG13	1.34	0.92
1:C:394:LYS:HG2	1:D:329:GLN:HG3	1.83	0.92
1:F:54:PRO:HB2	1:F:55:PRO:CD	1.99	0.92
1:H:281:TYR:CE1	1:H:321:GLN:HB2	2.27	0.92
1:J:130:GLU:HB2	1:J:136:LYS:HA	1.52	0.92
1:J:18:VAL:HG13	1:J:48:VAL:HG22	1.48	0.92
1:U:1:MET:CE	1:U:47:PRO:HB3	1.99	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:796:LYS:HA	1:Y:799:THR:HG22	1.49	0.92
1:D:109:ILE:HD12	1:D:153:PRO:HG2	2.23	0.92
1:F:338:GLN:HB2	1:F:339:PRO:HD3	1.53	0.92
1:Q:287:PRO:HA	1:Q:314:GLU:OE2	1.70	0.92
1:B:327:SER:CB	1:B:331:GLY:HA3	2.18	0.92
1:E:176:LEU:HD13	1:E:209:PHE:HD1	1.32	0.92
1:G:381:PRO:CA	1:G:405:THR:HG22	2.44	0.92
1:V:527:ILE:H	1:V:527:ILE:HD13	1.34	0.92
1:A:60:ILE:HD13	1:A:93:ALA:HA	1.94	0.92
1:C:116:LEU:HB3	1:C:117:PRO:CD	2.29	0.92
1:K:653:ALA:HB3	1:L:662:ILE:CD1	1.97	0.92
1:O:474:ARG:HG3	1:O:492:GLU:HB2	1.47	0.92
1:Z:9:ARG:HH12	1:Z:36:ILE:HA	1.35	0.92
1:A:329:GLN:HG3	1:Z:394:LYS:HG2	297.57	0.91
1:D:539:LEU:HD22	1:D:643:VAL:HG22	1.78	0.91
1:E:771:ILE:HD13	1:E:774:ARG:HH11	1.32	0.91
1:F:327:SER:CB	1:F:331:GLY:HA3	2.00	0.91
1:G:529:ILE:HD13	1:G:583:VAL:HG11	1.52	0.91
1:F:785:GLN:HA	1:G:790:VAL:HG21	1.75	0.91
1:I:14:HIS:HB3	1:I:56:ARG:HG3	1.49	0.91
1:L:176:LEU:HD13	1:L:209:PHE:CD1	2.05	0.91
1:O:327:SER:CB	1:O:331:GLY:HA3	1.98	0.91
1:X:511:ARG:HH22	1:X:517:LEU:HD11	1.34	0.91
1:Y:9:ARG:HH12	1:Y:36:ILE:HA	1.35	0.91
1:Z:18:VAL:H	1:Z:48:VAL:HG13	1.34	0.91
1:C:419:LEU:HG	1:C:420:PRO:HD2	1.50	0.91
1:H:481:VAL:HG11	1:H:487:VAL:HG13	1.71	0.91
1:J:338:GLN:HB2	1:J:339:PRO:HD3	1.92	0.91
1:L:121:LEU:HB2	1:L:145:PHE:HB3	1.86	0.91
1:M:90:ILE:N	1:M:90:ILE:HD13	3.91	0.91
1:W:182:CYS:O	1:W:190:ARG:HB2	1.70	0.91
1:B:332:LEU:HD21	1:B:407:MET:HB2	1.51	0.91
1:E:115:VAL:H	1:E:118:ASN:HD22	1.18	0.91
1:E:70:GLN:HB3	1:E:104:VAL:H	1.33	0.91
1:F:332:LEU:HD21	1:F:407:MET:HB2	1.65	0.91
1:K:116:LEU:HB3	1:K:117:PRO:CD	2.25	0.91
1:N:167:VAL:HB	1:N:201:VAL:O	1.71	0.91
1:R:65:VAL:HA	1:R:110:THR:HA	1.51	0.91
1:B:73:VAL:H	1:B:84:ARG:HB2	1.62	0.91
1:M:653:ALA:CB	1:N:662:ILE:HD11	1.99	0.91
1:Q:387:GLY:HA3	1:Q:402:ILE:HG22	1.52	0.91
1:A:419:LEU:HD23	1:A:421:SER:H	1.39	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:580:ARG:HH22	1:C:595:SER:HB2	1.34	0.91
1:P:327:SER:CB	1:P:331:GLY:HA3	2.00	0.91
1:Y:130:GLU:HB2	1:Y:136:LYS:HA	1.53	0.91
1:H:332:LEU:HB2	1:H:377:ARG:HB3	1.51	0.91
1:I:18:VAL:H	1:I:48:VAL:HG13	1.35	0.91
1:K:109:ILE:CD1	1:K:153:PRO:HB2	2.01	0.91
1:K:19:LEU:HD23	1:K:32:PRO:HB2	1.51	0.91
1:M:330:GLN:HB3	1:M:379:ALA:HB3	1.87	0.91
1:N:130:GLU:HB2	1:N:136:LYS:HA	1.51	0.91
1:S:116:LEU:HB3	1:S:117:PRO:HD2	1.48	0.91
1:U:167:VAL:HB	1:U:201:VAL:O	1.68	0.91
1:Y:70:GLN:HB3	1:Y:104:VAL:H	1.35	0.91
1:Y:77:ILE:HG13	1:Y:80:GLN:H	1.35	0.91
1:Y:653:ALA:HB3	1:Z:662:ILE:CD1	1.99	0.91
1:B:24:ASN:HD22	1:B:30:VAL:HB	1.34	0.91
1:E:77:ILE:HG13	1:E:79:GLY:H	2.05	0.91
1:H:327:SER:HB2	1:H:331:GLY:HA3	1.88	0.91
1:M:1:MET:CE	1:M:47:PRO:HB3	2.01	0.91
1:W:176:LEU:HB2	1:W:196:TRP:HB2	1.53	0.91
1:B:11:PRO:HA	1:B:38:GLN:HA	1.52	0.91
1:F:77:ILE:HG13	1:F:79:GLY:H	1.97	0.91
1:L:260:VAL:HB	1:L:263:VAL:HA	1.91	0.91
1:Y:419:LEU:HG	1:Y:420:PRO:HD2	1.52	0.91
1:A:239:ARG:HH21	1:A:257:GLU:HG2	1.36	0.91
1:B:771:ILE:HD13	1:B:774:ARG:NH1	2.15	0.91
1:C:381:PRO:HA	1:C:405:THR:CG2	2.01	0.91
1:F:176:LEU:HD13	1:F:209:PHE:CD1	2.17	0.91
1:G:239:ARG:HH21	1:G:257:GLU:HG2	1.35	0.91
1:L:24:ASN:HD22	1:L:30:VAL:HB	1.31	0.91
1:Q:5:GLU:HG2	1:Q:43:VAL:HG21	1.51	0.91
1:R:260:VAL:HB	1:R:263:VAL:HA	1.53	0.91
1:D:355:ASP:HA	1:E:328:GLU:HB2	1.52	0.91
1:E:539:LEU:HD22	1:E:643:VAL:HG22	1.98	0.91
1:H:18:VAL:H	1:H:48:VAL:HG13	1.40	0.91
1:L:109:ILE:HD12	1:L:153:PRO:HB2	1.85	0.91
1:B:332:LEU:HD21	1:B:407:MET:CB	2.01	0.90
1:D:330:GLN:HB3	1:D:379:ALA:HB3	1.69	0.90
1:E:154:GLN:HG3	1:E:155:LYS:HG3	1.50	0.90
1:K:176:LEU:HD13	1:K:209:PHE:HD1	1.36	0.90
1:K:653:ALA:HB1	1:L:662:ILE:HD11	1.49	0.90
1:L:384:GLN:H	1:L:384:GLN:NE2	1.69	0.90
1:A:116:LEU:HB3	1:A:117:PRO:CD	2.02	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:287:PRO:HA	1:G:314:GLU:OE2	1.70	0.90
1:V:623:ARG:HG3	1:V:624:ASP:H	1.36	0.90
1:X:704:LYS:HD2	1:Y:712:MET:HB3	1.53	0.90
1:Y:260:VAL:HA	1:Y:264:TYR:H	1.35	0.90
1:D:601:MET:HG2	1:D:622:ALA:HB2	1.52	0.90
1:G:132:LYS:HZ2	1:G:152:ILE:HD11	3.33	0.90
1:G:328:GLU:HA	1:G:328:GLU:OE1	1.76	0.90
1:I:36:ILE:CD1	1:I:98:PRO:HB3	2.02	0.90
1:M:18:VAL:H	1:M:48:VAL:HG13	1.45	0.90
1:N:67:ARG:HH21	1:N:107:LYS:HA	1.35	0.90
1:Q:176:LEU:HD13	1:Q:209:PHE:HD1	1.36	0.90
1:F:176:LEU:HD13	1:F:209:PHE:HD1	1.34	0.90
1:M:311:GLN:HB3	1:M:312:PRO:HD2	1.54	0.90
1:G:116:LEU:HB3	1:G:117:PRO:CD	2.02	0.90
1:J:175:ARG:HE	1:J:263:VAL:HG22	1.66	0.90
1:J:221:LEU:CD2	1:J:256:THR:HG21	2.00	0.90
1:L:54:PRO:HB2	1:L:55:PRO:CD	2.02	0.90
1:M:227:LEU:HB2	1:M:251:VAL:HG12	1.53	0.90
1:T:176:LEU:HD13	1:T:209:PHE:HD1	1.37	0.90
1:A:459:SER:HB3	1:A:488:THR:HG22	1.60	0.90
1:D:221:LEU:HD22	1:D:256:THR:HB	1.53	0.90
1:F:5:GLU:HG2	1:F:43:VAL:HG21	1.54	0.90
1:M:332:LEU:HD21	1:M:407:MET:CB	2.01	0.90
1:N:469:GLN:HB3	1:N:496:THR:HG21	1.51	0.90
1:R:175:ARG:HE	1:R:263:VAL:HG22	1.34	0.90
1:S:115:VAL:HB	1:S:148:PRO:HA	1.53	0.90
1:C:5:GLU:HG2	1:C:43:VAL:HG21	1.82	0.90
1:J:183:PHE:HA	1:J:190:ARG:HD3	1.54	0.90
1:P:459:SER:HB3	1:P:488:THR:HG22	1.52	0.90
1:T:527:ILE:HD11	1:T:539:LEU:HB2	1.53	0.90
1:X:770:LEU:CD1	1:X:774:ARG:NH2	2.34	0.90
1:A:332:LEU:HD21	1:A:407:MET:HB2	1.54	0.90
1:G:132:LYS:NZ	1:G:152:ILE:HD12	2.61	0.90
1:R:511:ARG:HH22	1:R:517:LEU:HD11	1.35	0.90
1:T:116:LEU:HB3	1:T:117:PRO:CD	2.02	0.90
1:S:653:ALA:CB	1:T:662:ILE:CD1	2.45	0.90
1:U:527:ILE:HD13	1:U:527:ILE:H	1.36	0.90
1:Y:18:VAL:H	1:Y:48:VAL:HG13	1.37	0.90
1:A:176:LEU:HD13	1:A:209:PHE:CD1	2.27	0.90
1:A:260:VAL:HB	1:A:263:VAL:HA	1.74	0.90
1:K:10:ILE:H	1:K:10:ILE:HD12	1.47	0.90
1:X:1:MET:CE	1:X:47:PRO:HB3	2.02	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:601:MET:HG2	1:B:622:ALA:HB2	2.12	0.90
1:J:116:LEU:HB3	1:J:117:PRO:CD	2.22	0.90
1:K:123:LEU:HD11	1:K:143:TRP:HD1	1.37	0.90
1:N:260:VAL:HA	1:N:264:TYR:H	1.36	0.90
1:Q:337:LEU:HD22	1:Q:357:TRP:CZ3	2.07	0.90
1:G:543:TYR:CE2	1:G:575:ILE:HG21	2.07	0.89
1:N:459:SER:CB	1:N:488:THR:HG22	2.02	0.89
1:O:115:VAL:H	1:O:118:ASN:HD22	1.13	0.89
1:P:394:LYS:HG2	1:Q:329:GLN:HG3	1.52	0.89
1:K:394:LYS:HG2	1:L:329:GLN:HG3	1.59	0.89
1:L:330:GLN:HB3	1:L:379:ALA:HB3	1.72	0.89
1:N:260:VAL:HB	1:N:263:VAL:HA	1.54	0.89
1:P:511:ARG:HH22	1:P:517:LEU:HD11	1.36	0.89
1:S:151:TYR:HD2	1:S:152:ILE:HD13	1.35	0.89
1:S:221:LEU:CD2	1:S:256:THR:HG21	2.03	0.89
1:D:527:ILE:HD13	1:D:529:ILE:HG23	1.53	0.89
1:G:1:MET:CE	1:G:47:PRO:HB3	2.25	0.89
1:I:204:TYR:O	1:I:206:PRO:HD3	1.99	0.89
1:M:221:LEU:HD21	1:M:256:THR:HG21	2.38	0.89
1:T:332:LEU:HD21	1:T:407:MET:HB2	1.52	0.89
1:X:36:ILE:HG21	1:X:99:LEU:HD13	1.54	0.89
1:A:327:SER:HB2	1:A:331:GLY:CA	2.08	0.89
1:E:109:ILE:CD1	1:E:153:PRO:HB2	2.02	0.89
1:I:785:GLN:HA	1:J:790:VAL:HG21	1.78	0.89
1:K:221:LEU:HD22	1:K:256:THR:HB	2.07	0.89
1:P:387:GLY:HA3	1:P:402:ILE:HG22	1.51	0.89
1:R:36:ILE:HD12	1:R:98:PRO:CB	1.99	0.89
1:D:381:PRO:HA	1:D:405:THR:CG2	2.02	0.89
1:F:228:HIS:NE2	1:F:312:PRO:HB3	1.87	0.89
1:N:132:LYS:HZ1	1:N:152:ILE:CD1	1.82	0.89
1:R:284:ILE:H	1:R:284:ILE:HD13	1.36	0.89
1:Q:653:ALA:CB	1:R:662:ILE:HD11	2.01	0.89
1:H:335:LYS:HD3	1:H:359:ILE:HD11	2.75	0.89
1:I:543:TYR:CE2	1:I:575:ILE:HG21	2.07	0.89
1:N:653:ALA:CB	1:O:662:ILE:HD11	2.01	0.89
1:Q:115:VAL:O	1:Q:118:ASN:HB3	1.73	0.89
1:U:18:VAL:H	1:U:48:VAL:HG13	1.35	0.89
1:C:785:GLN:HA	1:D:790:VAL:HG21	1.68	0.89
1:C:84:ARG:HH22	1:C:101:PRO:HD2	1.49	0.89
1:E:14:HIS:HB3	1:E:56:ARG:CB	2.47	0.89
1:F:18:VAL:H	1:F:48:VAL:HG13	1.39	0.89
1:G:332:LEU:HB2	1:G:377:ARG:HB3	1.67	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:332:LEU:HD21	1:G:407:MET:HB2	1.82	0.89
1:I:176:LEU:HD13	1:I:209:PHE:CD1	2.20	0.89
1:X:575:ILE:HD12	1:X:603:VAL:HG13	1.54	0.89
1:Y:77:ILE:CG1	1:Y:80:GLN:H	1.86	0.89
1:B:523:PHE:CE1	1:B:568:VAL:HG12	2.25	0.89
1:C:115:VAL:H	1:C:118:ASN:ND2	1.71	0.89
1:E:381:PRO:HA	1:E:405:THR:CG2	2.26	0.89
1:F:185:ARG:HG3	1:F:206:PRO:HB3	1.97	0.89
1:H:474:ARG:HG3	1:H:492:GLU:HB2	1.54	0.89
1:K:14:HIS:CB	1:K:56:ARG:HB2	2.02	0.89
1:W:653:ALA:HB1	1:X:662:ILE:CD1	2.03	0.89
1:F:287:PRO:HA	1:F:314:GLU:OE2	1.74	0.89
1:O:182:CYS:O	1:O:190:ARG:HB2	1.72	0.89
1:P:281:TYR:CE1	1:P:321:GLN:HB2	2.07	0.89
1:S:109:ILE:HD12	1:S:153:PRO:CG	2.03	0.89
1:S:115:VAL:H	1:S:118:ASN:HD22	1.18	0.89
1:I:332:LEU:HD21	1:I:407:MET:CB	2.23	0.89
1:S:113:GLN:OE1	1:S:149:GLY:HA2	1.73	0.89
1:T:115:VAL:H	1:T:118:ASN:HD22	1.13	0.89
1:W:84:ARG:HH22	1:W:101:PRO:HD2	1.35	0.89
1:B:1:MET:HE3	1:B:47:PRO:HB3	1.62	0.88
1:D:1:MET:HE3	1:D:47:PRO:HB3	1.72	0.88
1:H:1:MET:CE	1:H:47:PRO:HB3	2.03	0.88
1:I:281:TYR:CE1	1:I:321:GLN:HB2	2.08	0.88
1:J:459:SER:CB	1:J:488:THR:HG22	2.02	0.88
1:K:327:SER:HB2	1:K:331:GLY:CA	2.52	0.88
1:L:10:ILE:HD12	1:L:10:ILE:H	1.43	0.88
1:N:152:ILE:H	1:N:152:ILE:HD13	1.38	0.88
1:N:18:VAL:H	1:N:48:VAL:HG13	1.38	0.88
1:O:529:ILE:HD12	1:O:583:VAL:HG11	1.53	0.88
1:P:382:LEU:HD11	1:P:388:ILE:CD1	2.03	0.88
1:A:311:GLN:HB3	1:A:312:PRO:HD2	1.93	0.88
1:B:90:ILE:HD13	1:B:90:ILE:N	4.43	0.88
1:G:474:ARG:HG3	1:G:492:GLU:HB2	1.55	0.88
1:K:132:LYS:NZ	1:K:152:ILE:CD1	3.40	0.88
1:V:116:LEU:HB3	1:V:117:PRO:CD	2.04	0.88
1:D:511:ARG:HH22	1:D:517:LEU:HD11	1.39	0.88
1:E:130:GLU:HA	1:E:137:VAL:H	1.39	0.88
1:G:760:GLU:HA	1:G:760:GLU:OE1	2.32	0.88
1:J:5:GLU:HG2	1:J:43:VAL:HG21	1.84	0.88
1:K:28:VAL:HG12	1:K:30:VAL:HG23	1.52	0.88
1:N:151:TYR:HD2	1:N:152:ILE:HD13	1.38	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:116:LEU:HB3	1:B:117:PRO:CD	2.02	0.88
1:C:472:ASP:HA	1:C:493:GLU:HB3	1.53	0.88
1:I:9:ARG:HH12	1:I:36:ILE:HA	1.43	0.88
1:K:113:GLN:OE1	1:K:149:GLY:HA2	2.17	0.88
1:L:771:ILE:HD13	1:L:774:ARG:NH1	1.88	0.88
1:N:221:LEU:HD22	1:N:256:THR:CG2	2.03	0.88
1:Q:511:ARG:HH22	1:Q:517:LEU:HD11	1.38	0.88
1:Q:54:PRO:HB2	1:Q:55:PRO:HD3	1.56	0.88
1:R:109:ILE:HD12	1:R:153:PRO:CB	2.02	0.88
1:X:653:ALA:HB1	1:Y:662:ILE:CD1	2.04	0.88
1:B:653:ALA:HB3	1:C:662:ILE:HD13	1.89	0.88
1:L:130:GLU:HB2	1:L:136:LYS:HA	2.03	0.88
1:X:381:PRO:HA	1:X:405:THR:HG22	1.55	0.88
1:A:790:VAL:HG21	1:Z:785:GLN:HA	131.92	0.88
1:I:19:LEU:HD23	1:I:32:PRO:HB2	2.08	0.88
1:J:130:GLU:H	1:J:137:VAL:HG13	1.38	0.88
1:O:18:VAL:HG13	1:O:48:VAL:HG22	1.55	0.88
1:P:326:LEU:HD21	1:P:333:LEU:HG	1.55	0.88
1:S:18:VAL:H	1:S:48:VAL:HG13	1.39	0.88
1:X:176:LEU:HB2	1:X:196:TRP:HB2	1.56	0.88
1:A:273:ILE:HG21	1:A:316:LEU:HD11	1.56	0.88
1:B:1:MET:CE	1:B:47:PRO:HB3	2.04	0.88
1:B:481:VAL:HG11	1:B:487:VAL:CG1	2.25	0.88
1:B:54:PRO:HB2	1:B:55:PRO:CD	2.04	0.88
1:G:115:VAL:N	1:G:118:ASN:HD22	2.14	0.88
1:H:327:SER:HB2	1:H:331:GLY:CA	2.26	0.88
1:H:459:SER:HB3	1:H:488:THR:HG22	1.64	0.88
1:I:199:ARG:HH21	1:I:258:ALA:HB3	1.39	0.88
1:J:252:THR:H	1:J:254:GLN:HE21	1.61	0.88
1:I:745:LYS:HG3	1:J:753:ILE:HD13	1.80	0.88
1:L:328:GLU:HG3	1:L:329:GLN:N	1.85	0.88
1:L:381:PRO:CA	1:L:405:THR:HG22	2.04	0.88
1:T:327:SER:HB2	1:T:331:GLY:CA	2.03	0.88
1:Z:120:ALA:HB2	1:Z:164:GLN:NE2	1.88	0.88
1:B:20:ASP:CB	1:B:49:ARG:HG3	5.10	0.88
1:C:121:LEU:HB2	1:C:145:PHE:HB3	1.53	0.88
1:D:14:HIS:HB3	1:D:56:ARG:HB2	1.68	0.88
1:F:517:LEU:H	1:F:517:LEU:HD12	1.63	0.88
1:I:70:GLN:HB3	1:I:104:VAL:O	2.18	0.88
1:J:221:LEU:HD22	1:J:256:THR:HG21	1.55	0.88
1:J:527:ILE:H	1:J:527:ILE:HD13	1.39	0.88
1:O:649:ARG:HH21	1:P:655:GLN:HG2	1.36	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:653:ALA:CB	1:R:662:ILE:CD1	2.50	0.88
1:C:24:ASN:HD22	1:C:30:VAL:HB	1.63	0.88
1:G:132:LYS:HZ2	1:G:152:ILE:CD1	3.05	0.88
1:H:251:VAL:HG23	1:H:254:GLN:HE21	1.39	0.88
1:O:49:ARG:NH2	1:P:8:ILE:HD12	1.89	0.88
1:R:459:SER:CB	1:R:488:THR:HG22	2.03	0.88
1:B:419:LEU:HG	1:B:420:PRO:HD2	1.79	0.88
1:D:18:VAL:H	1:D:48:VAL:HG13	1.36	0.88
1:J:130:GLU:H	1:J:137:VAL:CG1	1.87	0.88
1:J:121:LEU:HB2	1:J:145:PHE:HB3	1.55	0.88
1:K:543:TYR:CE2	1:K:575:ILE:HG21	2.08	0.88
1:N:1:MET:CE	1:N:47:PRO:HB3	2.03	0.88
1:P:653:ALA:HB3	1:Q:662:ILE:CD1	2.04	0.88
1:R:18:VAL:HG13	1:R:48:VAL:HG22	1.54	0.88
1:S:11:PRO:HA	1:S:38:GLN:HA	1.54	0.88
1:J:294:ASN:ND2	1:J:313:GLY:HA3	1.88	0.87
1:K:182:CYS:O	1:K:190:ARG:HB2	1.74	0.87
1:L:328:GLU:OE1	1:L:328:GLU:HA	5.07	0.87
1:M:9:ARG:HH12	1:M:36:ILE:HA	1.37	0.87
1:R:381:PRO:HA	1:R:405:THR:CG2	2.02	0.87
1:V:175:ARG:HE	1:V:263:VAL:HG22	1.37	0.87
1:Y:328:GLU:HG3	1:Y:329:GLN:N	1.89	0.87
1:C:182:CYS:SG	1:C:208:VAL:HG21	2.14	0.87
1:E:260:VAL:HB	1:E:263:VAL:HA	1.56	0.87
1:L:109:ILE:CD1	1:L:153:PRO:CB	2.52	0.87
1:S:327:SER:HB2	1:S:331:GLY:HA3	1.54	0.87
1:V:459:SER:HB3	1:V:488:THR:HG22	1.53	0.87
1:Z:182:CYS:O	1:Z:190:ARG:HB2	1.74	0.87
1:A:332:LEU:HD21	1:A:407:MET:CB	2.04	0.87
1:D:338:GLN:HB2	1:D:339:PRO:HD3	1.55	0.87
1:D:73:VAL:H	1:D:84:ARG:HB2	1.67	0.87
1:E:182:CYS:O	1:E:190:ARG:HB2	2.00	0.87
1:G:176:LEU:HD13	1:G:209:PHE:CD1	2.05	0.87
1:I:286:ASP:HB3	1:I:296:LEU:HA	2.31	0.87
1:O:734:ARG:HH21	1:O:735:ILE:HD13	1.38	0.87
1:P:11:PRO:HA	1:P:38:GLN:HA	1.57	0.87
1:W:501:SER:HB3	1:W:508:PRO:HA	1.57	0.87
1:A:180:LYS:C	1:A:182:CYS:H	1.98	0.87
1:A:262:ASP:HB3	1:A:264:TYR:CE1	2.42	0.87
1:D:1:MET:CE	1:D:47:PRO:HB3	2.03	0.87
1:M:326:LEU:HD21	1:M:333:LEU:HG	1.78	0.87
1:S:227:LEU:HB2	1:S:251:VAL:HG12	1.56	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:328:GLU:HG3	1:Z:329:GLN:N	1.90	0.87
1:B:777:LEU:HD11	1:C:783:LYS:HB2	1.54	0.87
1:D:476:LYS:HE2	1:E:485:GLU:HG3	1.66	0.87
1:S:19:LEU:HD23	1:S:32:PRO:HB2	1.54	0.87
1:W:653:ALA:HB3	1:X:662:ILE:CD1	2.05	0.87
1:A:329:GLN:HG3	1:M:394:LYS:HG2	296.80	0.87
1:B:653:ALA:CB	1:C:662:ILE:HD13	2.52	0.87
1:H:176:LEU:HD13	1:H:209:PHE:CD1	2.39	0.87
1:I:73:VAL:H	1:I:84:ARG:HB2	1.39	0.87
1:P:54:PRO:HB2	1:P:55:PRO:HD3	1.57	0.87
1:X:18:VAL:HG13	1:X:48:VAL:HG22	1.57	0.87
1:C:381:PRO:CA	1:C:405:THR:HG22	2.04	0.87
1:D:260:VAL:HB	1:D:263:VAL:HA	1.75	0.87
1:D:745:LYS:HG3	1:E:753:ILE:HD11	1.57	0.87
1:G:527:ILE:HD13	1:G:527:ILE:H	1.38	0.87
1:J:332:LEU:HD21	1:J:407:MET:CB	2.05	0.87
1:M:85:HIS:NE2	1:M:102:GLY:HA3	2.38	0.87
1:O:419:LEU:HD12	1:O:494:GLN:HE21	1.40	0.87
1:Q:36:ILE:CD1	1:Q:98:PRO:HB3	2.03	0.87
1:J:8:ILE:HD13	1:J:8:ILE:H	4.19	0.87
1:L:539:LEU:HD22	1:L:643:VAL:HG22	1.99	0.87
1:L:9:ARG:NH1	1:L:36:ILE:HA	1.88	0.87
1:Q:327:SER:HB2	1:Q:331:GLY:CA	2.03	0.87
1:R:116:LEU:HB3	1:R:117:PRO:HD2	1.54	0.87
1:R:221:LEU:HD12	1:R:253:VAL:HG13	1.55	0.87
1:X:770:LEU:HD11	1:X:774:ARG:HH22	1.38	0.87
1:D:771:ILE:HD13	1:D:774:ARG:NH1	2.08	0.87
1:G:408:LEU:HD21	1:G:414:LEU:HD12	2.06	0.87
1:J:73:VAL:H	1:J:84:ARG:HB2	1.51	0.87
1:P:338:GLN:CB	1:P:339:PRO:HD3	2.05	0.87
1:X:221:LEU:HD22	1:X:256:THR:CG2	2.05	0.87
1:B:571:ALA:O	1:B:575:ILE:HG12	3.62	0.86
1:K:14:HIS:ND1	1:K:36:ILE:HG22	1.90	0.86
1:L:419:LEU:HD12	1:L:494:GLN:HE21	1.39	0.86
1:O:543:TYR:CE2	1:O:575:ILE:HG21	2.10	0.86
1:S:469:GLN:HB3	1:S:496:THR:HG21	1.56	0.86
1:F:28:VAL:HG12	1:F:30:VAL:HG23	1.77	0.86
1:N:49:ARG:HH22	1:O:8:ILE:CD1	1.88	0.86
1:O:755:THR:HG21	1:P:761:ARG:HG2	1.57	0.86
1:T:653:ALA:CB	1:U:662:ILE:CD1	2.51	0.86
1:X:1:MET:HE3	1:X:47:PRO:HB3	1.56	0.86
1:Y:184:ASP:HB2	1:Y:189:GLY:O	1.75	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:485:GLU:HG3	1:Z:476:LYS:HE2	273.39	0.86
1:D:184:ASP:HB3	1:D:187:GLY:O	2.45	0.86
1:F:19:LEU:HA	1:F:32:PRO:HB3	1.70	0.86
1:F:653:ALA:HB3	1:G:662:ILE:CD1	2.56	0.86
1:H:332:LEU:HD21	1:H:407:MET:CB	2.04	0.86
1:N:77:ILE:HG13	1:N:80:GLN:H	1.40	0.86
1:S:132:LYS:HZ2	1:S:152:ILE:HD11	1.38	0.86
1:A:260:VAL:HA	1:A:264:TYR:H	1.57	0.86
1:C:73:VAL:H	1:C:84:ARG:HB2	1.40	0.86
1:J:777:LEU:HD11	1:K:783:LYS:HB2	2.02	0.86
1:L:381:PRO:HA	1:L:405:THR:CG2	2.04	0.86
1:P:332:LEU:HB2	1:P:377:ARG:HB3	1.56	0.86
1:T:543:TYR:CE2	1:T:575:ILE:HG21	2.10	0.86
1:B:481:VAL:HG11	1:B:487:VAL:HG13	1.90	0.86
1:G:9:ARG:HH12	1:G:36:ILE:HA	1.48	0.86
1:J:469:GLN:HB3	1:J:496:THR:HG21	1.58	0.86
1:K:474:ARG:HG3	1:K:492:GLU:HB2	1.58	0.86
1:L:56:ARG:HH11	1:L:99:LEU:HD23	1.41	0.86
1:M:332:LEU:HD21	1:M:407:MET:HB2	1.57	0.86
1:M:70:GLN:HB3	1:M:104:VAL:H	1.75	0.86
1:N:132:LYS:HZ2	1:N:152:ILE:HD12	1.29	0.86
1:S:175:ARG:HE	1:S:263:VAL:HG22	1.40	0.86
1:V:36:ILE:HD13	1:V:36:ILE:O	1.75	0.86
1:A:287:PRO:HA	1:A:314:GLU:OE2	1.75	0.86
1:B:18:VAL:H	1:B:48:VAL:HG13	1.42	0.86
1:I:469:GLN:HB3	1:I:496:THR:HG21	1.56	0.86
1:L:18:VAL:H	1:L:48:VAL:HG13	1.47	0.86
1:L:605:GLY:O	1:L:623:ARG:HB2	1.74	0.86
1:K:653:ALA:CB	1:L:662:ILE:HD12	2.03	0.86
1:N:151:TYR:CD2	1:N:152:ILE:HD13	2.11	0.86
1:T:1:MET:CE	1:T:47:PRO:HB3	2.05	0.86
1:D:260:VAL:HA	1:D:264:TYR:H	1.61	0.86
1:D:384:GLN:HE21	1:D:384:GLN:H	1.39	0.86
1:H:328:GLU:HG3	1:H:329:GLN:H	1.36	0.86
1:Z:1:MET:CE	1:Z:47:PRO:HB3	2.06	0.86
1:Z:260:VAL:HB	1:Z:263:VAL:HA	1.54	0.86
1:A:571:ALA:O	1:A:575:ILE:HG12	3.68	0.86
1:B:221:LEU:HD21	1:B:256:THR:CG2	2.05	0.86
1:A:49:ARG:NH2	1:B:8:ILE:CD1	3.64	0.86
1:D:337:LEU:HD22	1:D:357:TRP:HZ3	1.74	0.86
1:E:381:PRO:CA	1:E:405:THR:HG22	2.35	0.86
1:G:11:PRO:HA	1:G:38:GLN:HA	1.55	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:762:VAL:O	1:H:766:ARG:HB2	2.11	0.86
1:J:287:PRO:HA	1:J:314:GLU:OE2	1.94	0.86
1:J:54:PRO:HB2	1:J:55:PRO:HD3	1.56	0.86
1:P:49:ARG:HH22	1:Q:8:ILE:HD12	1.37	0.86
1:S:268:LEU:HD13	1:S:269:GLY:H	1.40	0.86
1:S:9:ARG:HH12	1:S:36:ILE:HA	1.39	0.86
1:X:14:HIS:HB3	1:X:56:ARG:HB2	1.58	0.86
1:A:387:GLY:HA3	1:A:402:ILE:HG22	1.58	0.86
1:C:469:GLN:HB3	1:C:496:THR:HG21	1.77	0.86
1:K:221:LEU:HD21	1:K:256:THR:HG21	1.92	0.86
1:K:469:GLN:HB3	1:K:496:THR:HG21	1.58	0.86
1:M:184:ASP:HB2	1:M:189:GLY:O	1.88	0.86
1:R:394:LYS:HG2	1:S:329:GLN:HG3	1.57	0.86
1:S:332:LEU:HD21	1:S:407:MET:CB	2.06	0.86
1:D:191:VAL:HG12	1:D:194:GLU:HB2	1.57	0.86
1:F:217:ASP:HB2	1:F:258:ALA:HA	2.05	0.86
1:G:24:ASN:HD22	1:G:30:VAL:HB	2.06	0.86
1:I:116:LEU:HB3	1:I:117:PRO:CD	2.13	0.86
1:I:260:VAL:HA	1:I:264:TYR:H	1.58	0.86
1:R:330:GLN:HG3	1:R:379:ALA:HB2	1.57	0.86
1:Y:176:LEU:HD13	1:Y:209:PHE:CD1	2.11	0.86
1:F:129:PHE:O	1:F:137:VAL:HB	1.75	0.85
1:F:260:VAL:HB	1:F:263:VAL:HA	1.57	0.85
1:G:132:LYS:HZ1	1:G:152:ILE:HD12	2.42	0.85
1:G:54:PRO:HB2	1:G:55:PRO:CD	2.16	0.85
1:H:501:SER:HB3	1:H:507:ARG:O	1.74	0.85
1:H:771:ILE:HD13	1:H:774:ARG:NH1	1.97	0.85
1:I:381:PRO:CA	1:I:405:THR:HG22	2.06	0.85
1:L:116:LEU:HB3	1:L:117:PRO:CD	2.47	0.85
1:L:28:VAL:HG12	1:L:30:VAL:HG23	1.57	0.85
1:N:337:LEU:HD22	1:N:357:TRP:HZ3	1.41	0.85
1:O:176:LEU:HD13	1:O:209:PHE:HD1	1.38	0.85
1:R:327:SER:HB2	1:R:331:GLY:HA3	1.58	0.85
1:T:221:LEU:HD22	1:T:256:THR:HB	1.58	0.85
1:A:175:ARG:HE	1:A:263:VAL:HG22	1.75	0.85
1:B:20:ASP:HB2	1:B:49:ARG:CD	2.75	0.85
1:C:182:CYS:SG	1:C:208:VAL:CG2	2.63	0.85
1:E:14:HIS:CB	1:E:56:ARG:HB2	2.20	0.85
1:E:601:MET:HG2	1:E:622:ALA:HB2	2.03	0.85
1:H:328:GLU:HG3	1:H:329:GLN:N	1.88	0.85
1:H:77:ILE:HG13	1:H:80:GLN:H	1.39	0.85
1:K:18:VAL:H	1:K:48:VAL:HG13	1.53	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:67:ARG:HG2	1:K:108:ASP:HB3	1.81	0.85
1:E:124:LYS:HG2	1:E:157:VAL:O	1.77	0.85
1:F:328:GLU:OE1	1:F:362:PRO:HA	1.75	0.85
1:F:36:ILE:HG21	1:F:99:LEU:HD13	1.76	0.85
1:G:1:MET:HE3	1:G:47:PRO:HB3	1.81	0.85
1:H:287:PRO:HA	1:H:314:GLU:OE2	2.03	0.85
1:I:115:VAL:H	1:I:118:ASN:ND2	2.18	0.85
1:M:182:CYS:SG	1:M:208:VAL:CG2	2.64	0.85
1:O:204:TYR:O	1:O:206:PRO:HD3	1.76	0.85
1:O:587:THR:HG23	1:O:590:ASP:HB3	1.58	0.85
1:P:337:LEU:HD22	1:P:357:TRP:HZ3	1.41	0.85
1:A:332:LEU:HB2	1:A:377:ARG:HB3	1.58	0.85
1:E:332:LEU:HD21	1:E:407:MET:CB	2.24	0.85
1:G:273:ILE:HG13	1:G:308:PHE:HB3	2.30	0.85
1:H:28:VAL:HG12	1:H:30:VAL:HG23	1.68	0.85
1:J:332:LEU:HD21	1:J:407:MET:HB2	1.66	0.85
1:X:327:SER:HB2	1:X:331:GLY:CA	2.07	0.85
1:E:326:LEU:HD21	1:E:333:LEU:HG	2.12	0.85
1:H:815:PRO:C	1:H:816:GLU:CA	2.46	0.85
1:H:90:ILE:HD13	1:H:90:ILE:N	4.14	0.85
1:F:527:ILE:HD11	1:F:539:LEU:HB2	1.58	0.85
1:G:132:LYS:NZ	1:G:152:ILE:CD1	3.52	0.85
1:G:419:LEU:HD12	1:G:494:GLN:HE21	1.99	0.85
1:G:469:GLN:HB3	1:G:496:THR:HG21	1.58	0.85
1:L:221:LEU:HD21	1:L:256:THR:HG21	1.55	0.85
1:L:268:LEU:HD13	1:L:269:GLY:H	1.42	0.85
1:L:529:ILE:HD12	1:L:583:VAL:HG11	1.57	0.85
1:O:18:VAL:H	1:O:48:VAL:HG13	1.40	0.85
1:S:326:LEU:HD21	1:S:333:LEU:HG	1.58	0.85
1:X:227:LEU:O	1:X:250:LEU:HA	1.76	0.85
1:X:767:GLU:O	1:X:771:ILE:HG12	1.76	0.85
1:E:18:VAL:H	1:E:48:VAL:HG13	1.42	0.85
1:K:227:LEU:HB2	1:K:251:VAL:HG12	1.59	0.85
1:K:337:LEU:HD22	1:K:357:TRP:HZ3	1.40	0.85
1:K:495:PHE:HB3	1:K:514:LEU:HD11	1.57	0.85
1:L:36:ILE:HG21	1:L:99:LEU:HD13	1.56	0.85
1:N:11:PRO:HA	1:N:38:GLN:HA	1.57	0.85
1:O:287:PRO:HA	1:O:314:GLU:OE2	1.76	0.85
1:Q:459:SER:HB3	1:Q:488:THR:HG22	1.56	0.85
1:Q:481:VAL:HG11	1:Q:487:VAL:HG13	1.56	0.85
1:T:382:LEU:H	1:T:405:THR:HG22	1.42	0.85
1:V:815:PRO:C	1:V:816:GLU:CA	2.45	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:689:GLU:O	1:A:693:ILE:HD13	4.24	0.85
1:B:268:LEU:HD13	1:B:269:GLY:H	1.98	0.85
1:B:332:LEU:HB2	1:B:377:ARG:HB3	1.57	0.85
1:M:580:ARG:HH22	1:N:595:SER:HB2	1.39	0.85
1:Q:337:LEU:HG	1:Q:353:ALA:O	1.75	0.85
1:D:332:LEU:HD21	1:D:407:MET:HB3	1.74	0.85
1:E:328:GLU:OE1	1:E:362:PRO:HA	6.47	0.85
1:J:419:LEU:HG	1:J:420:PRO:CD	2.03	0.85
1:K:338:GLN:HB3	1:K:339:PRO:HD3	1.59	0.85
1:S:151:TYR:HD2	1:S:152:ILE:CD1	1.89	0.85
1:S:164:GLN:HB3	1:S:204:TYR:HA	1.58	0.85
1:Y:745:LYS:HG3	1:Z:753:ILE:HD11	1.57	0.85
1:L:654:LEU:CD1	1:M:662:ILE:HD13	3.21	0.85
1:O:121:LEU:HB2	1:O:145:PHE:HB3	1.59	0.85
1:W:132:LYS:NZ	1:W:152:ILE:HD12	1.91	0.85
1:Y:268:LEU:HD13	1:Y:269:GLY:H	1.42	0.85
1:F:9:ARG:HH12	1:F:36:ILE:HA	1.42	0.84
1:I:260:VAL:HB	1:I:263:VAL:HA	1.89	0.84
1:J:474:ARG:HG3	1:J:492:GLU:HB2	1.58	0.84
1:J:785:GLN:HA	1:K:790:VAL:HG21	1.59	0.84
1:L:11:PRO:HA	1:L:38:GLN:HA	1.59	0.84
1:P:273:ILE:HD11	1:P:308:PHE:HD2	1.42	0.84
1:E:224:LYS:HA	1:E:272:PRO:HG3	1.83	0.84
1:E:230:ARG:HG2	1:E:248:GLU:HG2	1.59	0.84
1:E:649:ARG:HH21	1:F:655:GLN:HG2	2.03	0.84
1:J:18:VAL:H	1:J:48:VAL:HG13	1.41	0.84
1:L:815:PRO:C	1:L:816:GLU:CA	2.49	0.84
1:Q:653:ALA:HB3	1:R:662:ILE:CD1	2.07	0.84
1:B:284:ILE:H	1:B:284:ILE:HD13	4.50	0.84
1:F:260:VAL:HA	1:F:264:TYR:H	1.89	0.84
1:F:337:LEU:HD22	1:F:357:TRP:HZ3	1.57	0.84
1:I:338:GLN:HB3	1:I:339:PRO:HD3	2.02	0.84
1:J:495:PHE:HB3	1:J:514:LEU:HD11	1.57	0.84
1:K:332:LEU:HD21	1:K:407:MET:HB3	1.58	0.84
1:V:130:GLU:HB2	1:V:136:LYS:HA	1.56	0.84
1:V:330:GLN:HG3	1:V:379:ALA:CB	2.01	0.84
1:F:24:ASN:HD22	1:F:30:VAL:HB	1.52	0.84
1:F:408:LEU:HD21	1:F:414:LEU:HD12	3.09	0.84
1:J:182:CYS:O	1:J:190:ARG:HB2	1.76	0.84
1:J:543:TYR:HE2	1:J:575:ILE:HG21	1.31	0.84
1:J:70:GLN:HB3	1:J:104:VAL:H	1.42	0.84
1:M:815:PRO:C	1:M:816:GLU:CA	2.47	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:11:PRO:HA	1:Q:38:GLN:HA	1.59	0.84
1:R:14:HIS:CB	1:R:56:ARG:HB2	2.07	0.84
1:R:419:LEU:HG	1:R:420:PRO:CD	2.03	0.84
1:A:419:LEU:HG	1:A:420:PRO:HD2	1.66	0.84
1:H:183:PHE:HA	1:H:190:ARG:HD3	1.60	0.84
1:K:340:LEU:HG	1:K:353:ALA:H	2.18	0.84
1:L:182:CYS:SG	1:L:208:VAL:HB	2.17	0.84
1:K:755:THR:HG21	1:L:761:ARG:HG2	1.82	0.84
1:Q:36:ILE:HD12	1:Q:98:PRO:CB	2.05	0.84
1:Q:245:THR:CG2	1:R:219:VAL:HG13	2.07	0.84
1:B:129:PHE:O	1:B:137:VAL:HB	6.80	0.84
1:B:154:GLN:HG3	1:B:155:LYS:HG3	1.59	0.84
1:C:11:PRO:HA	1:C:38:GLN:HA	1.66	0.84
1:M:543:TYR:CE2	1:M:575:ILE:HG21	2.13	0.84
1:A:221:LEU:HD21	1:A:256:THR:HG21	1.57	0.84
1:B:221:LEU:CD2	1:B:256:THR:HB	2.06	0.84
1:B:260:VAL:HB	1:B:263:VAL:HA	1.76	0.84
1:B:328:GLU:HG2	1:B:329:GLN:N	1.90	0.84
1:P:815:PRO:C	1:P:816:GLU:CA	2.46	0.84
1:Q:328:GLU:OE1	1:Q:362:PRO:HA	1.74	0.84
1:W:815:PRO:C	1:W:816:GLU:CA	2.46	0.84
1:X:770:LEU:HD13	1:X:774:ARG:NH2	1.91	0.84
1:Y:815:PRO:C	1:Y:816:GLU:CA	2.46	0.84
1:B:785:GLN:HA	1:C:790:VAL:HG21	1.58	0.84
1:C:221:LEU:HA	1:C:253:VAL:HG13	1.60	0.84
1:C:539:LEU:HD22	1:C:643:VAL:HG22	1.60	0.84
1:D:67:ARG:HH21	1:D:107:LYS:HA	1.43	0.84
1:F:1:MET:CE	1:F:47:PRO:HB3	2.10	0.84
1:G:152:ILE:H	1:G:152:ILE:CD1	2.43	0.84
1:J:815:PRO:C	1:J:816:GLU:CA	2.46	0.84
1:K:287:PRO:HA	1:K:314:GLU:OE2	1.78	0.84
1:K:815:PRO:C	1:K:816:GLU:CA	2.46	0.84
1:N:176:LEU:HD13	1:N:209:PHE:HD1	1.43	0.84
1:N:495:PHE:HB3	1:N:514:LEU:HD11	1.58	0.84
1:N:815:PRO:C	1:N:816:GLU:CA	2.46	0.84
1:B:14:HIS:HB3	1:B:56:ARG:HB2	1.59	0.84
1:F:815:PRO:C	1:F:816:GLU:CA	2.46	0.84
1:J:381:PRO:HA	1:J:405:THR:CG2	2.14	0.84
1:K:273:ILE:HG21	1:K:316:LEU:HD11	1.60	0.84
1:L:109:ILE:CD1	1:L:153:PRO:HB2	2.07	0.84
1:L:260:VAL:HA	1:L:264:TYR:H	1.53	0.84
1:U:1:MET:HE1	1:U:47:PRO:HB3	1.59	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:184:ASP:HB2	1:X:189:GLY:O	1.78	0.84
1:B:221:LEU:HD21	1:B:256:THR:HG21	1.59	0.84
1:B:337:LEU:HD22	1:B:357:TRP:HZ3	1.71	0.84
1:C:14:HIS:HB3	1:C:56:ARG:CB	2.08	0.84
1:C:419:LEU:HD12	1:C:494:GLN:HE21	1.43	0.84
1:D:327:SER:CB	1:D:331:GLY:HA3	2.08	0.84
1:E:11:PRO:HA	1:E:38:GLN:HA	1.59	0.84
1:I:474:ARG:HG3	1:I:492:GLU:HB2	1.60	0.84
1:Q:14:HIS:CB	1:Q:56:ARG:HB2	2.08	0.84
1:S:260:VAL:HA	1:S:264:TYR:H	1.42	0.84
1:S:54:PRO:HB2	1:S:55:PRO:CD	2.07	0.84
1:W:529:ILE:HD12	1:W:583:VAL:HG11	1.59	0.84
1:B:70:GLN:HB3	1:B:104:VAL:O	1.85	0.83
1:D:176:LEU:HD13	1:D:209:PHE:HD1	1.72	0.83
1:D:332:LEU:HD21	1:D:407:MET:CB	2.08	0.83
1:H:227:LEU:HB2	1:H:251:VAL:HG12	1.99	0.83
1:I:381:PRO:HA	1:I:405:THR:CG2	2.10	0.83
1:I:815:PRO:C	1:I:816:GLU:CA	2.46	0.83
1:M:587:THR:HG23	1:M:590:ASP:HB3	1.60	0.83
1:O:338:GLN:CB	1:O:339:PRO:HD3	2.08	0.83
1:P:260:VAL:HA	1:P:264:TYR:H	1.43	0.83
1:T:529:ILE:HD12	1:T:583:VAL:HG11	1.59	0.83
1:A:337:LEU:HD22	1:A:357:TRP:CZ3	2.40	0.83
1:B:815:PRO:C	1:B:816:GLU:CA	2.47	0.83
1:D:459:SER:HB3	1:D:488:THR:HG22	1.59	0.83
1:H:1:MET:HE3	1:H:47:PRO:HB3	1.60	0.83
1:K:224:LYS:HA	1:K:272:PRO:HG3	1.72	0.83
1:L:543:TYR:HE2	1:L:575:ILE:HG21	1.40	0.83
1:A:662:ILE:HD11	1:M:653:ALA:HB1	175.97	0.83
1:N:60:ILE:HD13	1:N:93:ALA:HA	1.57	0.83
1:O:332:LEU:HD21	1:O:407:MET:CB	2.06	0.83
1:R:653:ALA:HB1	1:S:662:ILE:HD11	1.57	0.83
1:X:815:PRO:C	1:X:816:GLU:CA	2.47	0.83
1:Y:251:VAL:HG21	1:Y:257:GLU:HG2	1.58	0.83
1:B:182:CYS:O	1:B:190:ARG:HB2	1.84	0.83
1:B:381:PRO:HA	1:B:405:THR:CG2	2.13	0.83
1:D:132:LYS:NZ	1:D:152:ILE:CD1	3.56	0.83
1:F:199:ARG:HH21	1:F:258:ALA:HB3	1.43	0.83
1:I:10:ILE:HD12	1:I:10:ILE:H	1.64	0.83
1:L:523:PHE:CE1	1:L:568:VAL:HG12	2.38	0.83
1:R:227:LEU:HB2	1:R:251:VAL:HG12	1.59	0.83
1:R:217:ASP:HB2	1:R:258:ALA:HA	1.60	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:28:VAL:HG12	1:R:30:VAL:HG23	1.58	0.83
1:V:283:VAL:HG22	1:V:301:VAL:HG12	1.60	0.83
1:W:281:TYR:CE1	1:W:321:GLN:HB2	2.13	0.83
1:X:221:LEU:HD22	1:X:256:THR:HG21	1.60	0.83
1:Y:130:GLU:H	1:Y:137:VAL:HG13	1.43	0.83
1:A:815:PRO:C	1:A:816:GLU:CA	2.46	0.83
1:B:176:LEU:HB2	1:B:196:TRP:HB2	1.60	0.83
1:E:327:SER:HB2	1:E:331:GLY:CA	2.97	0.83
1:E:653:ALA:HB3	1:F:662:ILE:CD1	2.08	0.83
1:H:24:ASN:HD22	1:H:30:VAL:HB	1.43	0.83
1:H:771:ILE:HD13	1:H:774:ARG:HH11	1.42	0.83
1:I:287:PRO:HA	1:I:314:GLU:OE2	1.79	0.83
1:I:704:LYS:HD2	1:J:712:MET:HB3	2.12	0.83
1:J:221:LEU:HD22	1:J:256:THR:HB	1.85	0.83
1:M:1:MET:HE1	1:M:47:PRO:HB3	1.60	0.83
1:P:9:ARG:HH12	1:P:36:ILE:HA	1.44	0.83
1:R:9:ARG:NH1	1:R:36:ILE:HA	1.94	0.83
1:S:327:SER:HB2	1:S:331:GLY:CA	2.07	0.83
1:B:221:LEU:HD22	1:B:256:THR:CB	2.08	0.83
1:D:176:LEU:HB2	1:D:196:TRP:HB2	1.91	0.83
1:L:653:ALA:HB3	1:M:662:ILE:CD1	2.08	0.83
1:N:180:LYS:C	1:N:182:CYS:H	1.80	0.83
1:N:327:SER:HB2	1:N:331:GLY:HA3	1.58	0.83
1:U:815:PRO:C	1:U:816:GLU:CA	2.47	0.83
1:X:281:TYR:CE1	1:X:321:GLN:HB2	2.12	0.83
1:Y:168:ILE:HD13	1:Y:172:GLN:OE1	1.77	0.83
1:X:653:ALA:HB3	1:Y:662:ILE:HD11	1.58	0.83
1:D:10:ILE:HD12	1:D:10:ILE:H	1.42	0.83
1:D:815:PRO:C	1:D:816:GLU:CA	2.47	0.83
1:H:116:LEU:HB3	1:H:117:PRO:CD	2.08	0.83
1:O:49:ARG:HH22	1:P:8:ILE:CD1	1.91	0.83
1:P:262:ASP:HB3	1:P:264:TYR:CE1	2.13	0.83
1:P:338:GLN:HB2	1:P:339:PRO:HD3	1.59	0.83
1:S:523:PHE:CE1	1:S:568:VAL:HG12	2.14	0.83
1:B:9:ARG:HH12	1:B:36:ILE:HA	1.43	0.83
1:D:115:VAL:O	1:D:118:ASN:HB3	1.79	0.83
1:D:281:TYR:CE1	1:D:321:GLN:HB2	2.13	0.83
1:D:517:LEU:HD12	1:D:517:LEU:H	1.77	0.83
1:I:653:ALA:HB3	1:J:662:ILE:CD1	2.09	0.83
1:M:154:GLN:HG3	1:M:155:LYS:HG3	1.60	0.83
1:R:328:GLU:HA	1:R:328:GLU:OE1	1.78	0.83
1:T:815:PRO:C	1:T:816:GLU:CA	2.46	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:1:MET:CE	1:W:47:PRO:HB3	2.08	0.83
1:B:115:VAL:H	1:B:118:ASN:HD22	1.48	0.83
1:G:109:ILE:HD12	1:G:153:PRO:HB2	2.15	0.83
1:J:252:THR:H	1:J:254:GLN:NE2	1.85	0.83
1:K:24:ASN:HD22	1:K:30:VAL:HB	1.41	0.83
1:K:73:VAL:N	1:K:84:ARG:HB2	1.92	0.83
1:M:273:ILE:HG21	1:M:316:LEU:HD11	1.77	0.83
1:O:815:PRO:C	1:O:816:GLU:CA	2.47	0.83
1:P:164:GLN:HB3	1:P:204:TYR:HB3	1.60	0.83
1:R:766:ARG:HD3	1:S:772:TYR:HB2	1.61	0.83
1:S:815:PRO:C	1:S:816:GLU:CA	2.47	0.83
1:Y:771:ILE:HD13	1:Y:774:ARG:HH12	1.43	0.83
1:G:10:ILE:H	1:G:10:ILE:HD12	1.42	0.83
1:G:815:PRO:C	1:G:816:GLU:CA	2.47	0.83
1:K:14:HIS:HB3	1:K:56:ARG:HB2	1.60	0.83
1:K:260:VAL:HB	1:K:263:VAL:HA	1.74	0.83
1:O:539:LEU:HD22	1:O:643:VAL:HG22	1.60	0.83
1:P:328:GLU:OE1	1:P:362:PRO:HA	1.79	0.83
1:T:20:ASP:OD2	1:U:8:ILE:HG23	1.79	0.83
1:X:419:LEU:HD23	1:X:421:SER:H	1.44	0.83
1:E:205:LEU:HD22	1:E:211:GLU:HB2	1.68	0.83
1:E:24:ASN:HD22	1:E:30:VAL:HB	1.79	0.83
1:F:67:ARG:HH21	1:F:107:LYS:HA	1.72	0.83
1:I:120:ALA:HB2	1:I:164:GLN:HE22	1.43	0.83
1:J:163:ILE:HD12	1:J:163:ILE:H	4.26	0.83
1:K:154:GLN:HG3	1:K:155:LYS:HG3	1.98	0.83
1:K:16:ILE:HA	1:K:34:THR:OG1	1.97	0.83
1:L:176:LEU:HB2	1:L:196:TRP:HB2	1.72	0.83
1:L:654:LEU:CD1	1:M:662:ILE:CD1	3.65	0.83
1:M:61:VAL:HG13	1:M:65:VAL:HG23	1.89	0.83
1:N:182:CYS:O	1:N:190:ARG:HB2	1.78	0.83
1:O:767:GLU:O	1:O:771:ILE:HD13	1.79	0.83
1:Y:130:GLU:H	1:Y:137:VAL:CG1	1.91	0.83
1:D:28:VAL:HG12	1:D:30:VAL:HG23	1.75	0.82
1:F:600:ARG:NH1	1:F:622:ALA:HB3	1.91	0.82
1:H:204:TYR:O	1:H:206:PRO:HD3	1.78	0.82
1:I:130:GLU:H	1:I:137:VAL:HG13	3.68	0.82
1:L:252:THR:H	1:L:254:GLN:NE2	1.76	0.82
1:P:481:VAL:HG11	1:P:487:VAL:CG1	2.09	0.82
1:Q:5:GLU:HG2	1:Q:43:VAL:CG2	2.08	0.82
1:B:459:SER:CB	1:B:488:THR:HG22	2.09	0.82
1:C:18:VAL:H	1:C:48:VAL:HG13	1.47	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:100:TYR:HB3	1:D:101:PRO:CD	2.41	0.82
1:D:9:ARG:NH1	1:D:36:ILE:HA	2.18	0.82
1:X:251:VAL:HG23	1:X:254:GLN:NE2	1.93	0.82
1:Y:251:VAL:HG23	1:Y:254:GLN:HE21	1.43	0.82
1:A:328:GLU:OE1	1:A:328:GLU:HA	1.93	0.82
1:B:10:ILE:HD12	1:B:10:ILE:H	1.45	0.82
1:C:176:LEU:HD13	1:C:209:PHE:CD1	2.24	0.82
1:C:262:ASP:HB3	1:C:264:TYR:CE1	2.44	0.82
1:E:419:LEU:CG	1:E:420:PRO:HD2	2.20	0.82
1:I:326:LEU:HD21	1:I:333:LEU:HG	1.61	0.82
1:I:408:LEU:HD21	1:I:414:LEU:HD12	2.11	0.82
1:S:176:LEU:HD13	1:S:209:PHE:HD1	1.43	0.82
1:W:459:SER:HB3	1:W:488:THR:HG22	1.62	0.82
1:W:18:VAL:H	1:W:48:VAL:HG13	1.42	0.82
1:X:18:VAL:H	1:X:48:VAL:HG13	1.43	0.82
1:Z:332:LEU:HD21	1:Z:407:MET:CB	2.09	0.82
1:A:11:PRO:HA	1:A:38:GLN:HA	1.67	0.82
1:C:815:PRO:C	1:C:816:GLU:CA	2.47	0.82
1:E:815:PRO:C	1:E:816:GLU:CA	2.47	0.82
1:J:419:LEU:CG	1:J:420:PRO:HD2	2.03	0.82
1:J:689:GLU:O	1:J:693:ILE:HD13	1.79	0.82
1:J:60:ILE:HD13	1:J:93:ALA:HA	2.10	0.82
1:L:109:ILE:CD1	1:L:153:PRO:HG2	2.09	0.82
1:M:11:PRO:HA	1:M:38:GLN:HA	1.62	0.82
1:M:14:HIS:HB3	1:M:56:ARG:HB2	1.61	0.82
1:Q:18:VAL:H	1:Q:48:VAL:HG13	1.43	0.82
1:S:109:ILE:CD1	1:S:153:PRO:HG2	2.09	0.82
1:V:18:VAL:H	1:V:48:VAL:HG13	1.43	0.82
1:W:419:LEU:CG	1:W:420:PRO:HD2	2.09	0.82
1:E:176:LEU:HB2	1:E:196:TRP:HB2	1.85	0.82
1:E:1:MET:CE	1:E:47:PRO:HB3	2.14	0.82
1:E:745:LYS:HG3	1:F:753:ILE:HD13	2.24	0.82
1:F:10:ILE:HD12	1:F:10:ILE:H	1.42	0.82
1:E:653:ALA:CB	1:F:662:ILE:CD1	2.56	0.82
1:G:273:ILE:HG23	1:G:310:LEU:HD11	1.88	0.82
1:G:19:LEU:HA	1:G:32:PRO:HB3	1.76	0.82
1:H:785:GLN:HA	1:I:790:VAL:HG21	1.82	0.82
1:I:311:GLN:HB3	1:I:312:PRO:HD2	1.59	0.82
1:J:260:VAL:HA	1:J:264:TYR:H	1.42	0.82
1:O:752:ALA:HA	1:O:755:THR:CG2	2.08	0.82
1:Q:19:LEU:HD23	1:Q:32:PRO:HB2	1.59	0.82
1:T:9:ARG:HH12	1:T:36:ILE:HA	1.42	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:24:ASN:HD22	1:V:30:VAL:HB	1.44	0.82
1:E:330:GLN:HB3	1:E:379:ALA:HB3	1.62	0.82
1:G:226:ALA:HB3	1:G:270:VAL:HG13	1.60	0.82
1:L:337:LEU:HD22	1:L:357:TRP:CZ3	2.14	0.82
1:L:5:GLU:HG2	1:L:43:VAL:HG21	1.61	0.82
1:Q:815:PRO:C	1:Q:816:GLU:CA	2.48	0.82
1:R:332:LEU:HD21	1:R:407:MET:CB	2.10	0.82
1:U:332:LEU:HD21	1:U:407:MET:HB2	1.60	0.82
1:X:182:CYS:SG	1:X:208:VAL:CG2	2.67	0.82
1:F:332:LEU:HB2	1:F:377:ARG:HB3	1.66	0.82
1:K:19:LEU:HA	1:K:32:PRO:CB	2.17	0.82
1:K:481:VAL:HG11	1:K:487:VAL:HG13	1.59	0.82
1:K:654:LEU:HD12	1:L:662:ILE:HG21	2.77	0.82
1:N:227:LEU:HB2	1:N:251:VAL:CG1	2.08	0.82
1:N:64:PRO:HA	1:N:111:PRO:HD2	1.60	0.82
1:O:180:LYS:C	1:O:182:CYS:H	1.81	0.82
1:T:332:LEU:HD21	1:T:407:MET:CB	2.09	0.82
1:Z:120:ALA:HB2	1:Z:164:GLN:HE22	1.41	0.82
1:B:338:GLN:HB2	1:B:339:PRO:HD3	1.63	0.82
1:D:653:ALA:HB3	1:E:662:ILE:CD1	2.30	0.82
1:E:771:ILE:HD13	1:E:774:ARG:HD2	1.61	0.82
1:F:109:ILE:HD12	1:F:153:PRO:CG	2.73	0.82
1:F:419:LEU:HG	1:F:420:PRO:CD	2.25	0.82
1:L:14:HIS:HB3	1:L:56:ARG:HG3	1.62	0.82
1:R:5:GLU:HG2	1:R:43:VAL:CG2	2.09	0.82
1:W:11:PRO:HA	1:W:38:GLN:HA	1.60	0.82
1:D:11:PRO:HA	1:D:38:GLN:HA	1.59	0.82
1:D:221:LEU:HD22	1:D:256:THR:CG2	2.57	0.82
1:E:116:LEU:HB3	1:E:117:PRO:CD	2.07	0.82
1:F:176:LEU:HB2	1:F:196:TRP:HB2	2.04	0.82
1:H:113:GLN:HG2	1:H:150:THR:HB	2.18	0.82
1:P:221:LEU:HD13	1:P:256:THR:HB	1.62	0.82
1:R:332:LEU:HB2	1:R:377:ARG:HB3	1.59	0.82
1:T:649:ARG:HH21	1:U:655:GLN:HG2	1.45	0.82
1:V:330:GLN:CG	1:V:379:ALA:HB3	2.02	0.82
1:W:687:ARG:HG2	1:W:691:GLN:HE21	1.43	0.82
1:Y:381:PRO:HA	1:Y:405:THR:CG2	2.09	0.82
1:A:539:LEU:HD22	1:A:643:VAL:HG22	1.62	0.82
1:C:115:VAL:H	1:C:118:ASN:HD22	1.28	0.82
1:B:397:LYS:HA	1:C:384:GLN:OE1	2.61	0.82
1:C:571:ALA:O	1:C:575:ILE:HG12	3.63	0.82
1:H:224:LYS:HA	1:H:272:PRO:HG3	1.76	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:176:LEU:HB2	1:I:196:TRP:HB2	1.62	0.82
1:I:332:LEU:HD21	1:I:407:MET:HB2	1.73	0.82
1:L:60:ILE:HD13	1:L:93:ALA:HA	1.60	0.82
1:M:452:ARG:HH11	1:M:452:ARG:HG3	1.44	0.82
1:N:49:ARG:NH2	1:O:8:ILE:CD1	2.43	0.82
1:P:481:VAL:HG11	1:P:487:VAL:HG13	1.62	0.82
1:U:332:LEU:HD21	1:U:407:MET:CB	2.10	0.82
1:V:1:MET:CE	1:V:47:PRO:HB3	2.10	0.82
1:Y:154:GLN:HG3	1:Y:155:LYS:HG3	1.62	0.82
1:Z:328:GLU:HG3	1:Z:329:GLN:H	1.41	0.82
1:B:252:THR:H	1:B:254:GLN:NE2	1.77	0.81
1:E:115:VAL:HB	1:E:148:PRO:HA	2.69	0.81
1:H:469:GLN:HB3	1:H:496:THR:HG21	1.62	0.81
1:I:340:LEU:HG	1:I:353:ALA:H	2.76	0.81
1:M:5:GLU:CG	1:M:43:VAL:HG21	2.50	0.81
1:N:653:ALA:HB1	1:O:662:ILE:HD12	1.59	0.81
1:P:387:GLY:CA	1:P:402:ILE:HG22	2.10	0.81
1:R:5:GLU:HG2	1:R:43:VAL:HG21	1.60	0.81
1:A:5:GLU:HG2	1:A:43:VAL:HG21	1.62	0.81
1:A:540:GLN:HB2	1:A:642:SER:HB3	1.63	0.81
1:J:134:GLY:O	1:J:135:ASP:HB2	1.80	0.81
1:J:5:GLU:HA	1:J:7:ILE:HD11	3.56	0.81
1:M:337:LEU:HD22	1:M:357:TRP:HZ3	1.44	0.81
1:Q:273:ILE:HG23	1:Q:310:LEU:HD11	1.60	0.81
1:Q:328:GLU:HA	1:Q:328:GLU:OE1	1.79	0.81
1:S:19:LEU:HA	1:S:32:PRO:HB3	1.60	0.81
1:U:575:ILE:HD12	1:U:603:VAL:HG13	1.63	0.81
1:A:511:ARG:HH22	1:A:517:LEU:HD11	1.51	0.81
1:F:387:GLY:HA3	1:F:402:ILE:HG22	1.78	0.81
1:G:176:LEU:HB2	1:G:196:TRP:HB2	1.89	0.81
1:M:523:PHE:CE1	1:M:568:VAL:HG12	2.51	0.81
1:R:381:PRO:CA	1:R:405:THR:HG22	2.11	0.81
1:U:273:ILE:HD13	1:U:316:LEU:HD21	1.61	0.81
1:D:182:CYS:SG	1:D:208:VAL:HG21	2.21	0.81
1:E:8:ILE:HG22	1:E:40:ASN:ND2	2.20	0.81
1:I:224:LYS:O	1:I:272:PRO:HD3	1.81	0.81
1:J:408:LEU:HD21	1:J:414:LEU:HD12	1.96	0.81
1:K:5:GLU:OE1	1:K:43:VAL:HG11	1.90	0.81
1:L:8:ILE:HD13	1:L:8:ILE:H	4.30	0.81
1:N:381:PRO:HA	1:N:405:THR:CG2	2.10	0.81
1:N:543:TYR:CE2	1:N:575:ILE:HG21	2.15	0.81
1:R:154:GLN:HG3	1:R:155:LYS:HE3	1.62	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:587:THR:HG23	1:T:590:ASP:HB3	1.61	0.81
1:T:596:ALA:O	1:T:600:ARG:HB2	1.80	0.81
1:H:601:MET:HG2	1:H:622:ALA:HB2	1.62	0.81
1:I:262:ASP:HB3	1:I:264:TYR:CE1	2.15	0.81
1:M:115:VAL:HB	1:M:148:PRO:HA	1.61	0.81
1:N:132:LYS:HZ2	1:N:152:ILE:CD1	1.87	0.81
1:R:815:PRO:C	1:R:816:GLU:CA	2.49	0.81
1:S:14:HIS:CB	1:S:56:ARG:HB2	2.10	0.81
1:Z:130:GLU:H	1:Z:137:VAL:CG1	1.94	0.81
1:A:134:GLY:O	1:A:135:ASP:HB2	1.79	0.81
1:H:4:GLU:OE2	1:H:6:ALA:HB2	2.16	0.81
1:I:182:CYS:O	1:I:190:ARG:HB2	1.92	0.81
1:K:1:MET:CE	1:K:47:PRO:HB3	2.10	0.81
1:K:67:ARG:HH21	1:K:107:LYS:HA	1.77	0.81
1:L:109:ILE:HD11	1:L:153:PRO:HG2	1.62	0.81
1:V:227:LEU:O	1:V:250:LEU:HA	1.81	0.81
1:W:384:GLN:H	1:W:384:GLN:HE21	1.29	0.81
1:Y:130:GLU:CB	1:Y:136:LYS:HA	2.11	0.81
1:Y:384:GLN:H	1:Y:384:GLN:HE21	1.29	0.81
1:A:662:ILE:CD1	1:Z:653:ALA:HB3	177.83	0.81
1:E:10:ILE:H	1:E:10:ILE:HD12	1.46	0.81
1:F:154:GLN:HG3	1:F:155:LYS:HG3	1.63	0.81
1:G:167:VAL:HB	1:G:201:VAL:O	1.80	0.81
1:I:697:SER:HA	1:J:706:LEU:HD23	1.60	0.81
1:J:10:ILE:HD12	1:J:10:ILE:H	1.48	0.81
1:J:1:MET:CE	1:J:47:PRO:HB3	2.11	0.81
1:M:221:LEU:HD13	1:M:256:THR:HB	1.60	0.81
1:N:227:LEU:CB	1:N:251:VAL:HG12	2.09	0.81
1:R:11:PRO:HA	1:R:38:GLN:HA	1.61	0.81
1:R:18:VAL:H	1:R:48:VAL:HG13	1.46	0.81
1:Z:176:LEU:HD13	1:Z:209:PHE:HD1	1.46	0.81
1:A:14:HIS:NE2	1:A:16:ILE:HD11	1.95	0.81
1:D:171:ASN:O	1:D:216:VAL:HG12	2.36	0.81
1:D:653:ALA:HB1	1:E:662:ILE:CD1	2.16	0.81
1:E:221:LEU:CD2	1:E:256:THR:HG21	2.68	0.81
1:F:328:GLU:HG3	1:F:329:GLN:N	4.83	0.81
1:H:5:GLU:HG2	1:H:43:VAL:HG21	2.00	0.81
1:K:767:GLU:O	1:K:771:ILE:HG12	3.12	0.81
1:U:260:VAL:HB	1:U:263:VAL:HA	1.61	0.81
1:V:5:GLU:HG2	1:V:43:VAL:HG21	1.63	0.81
1:Y:251:VAL:HG23	1:Y:254:GLN:NE2	1.95	0.81
1:Y:511:ARG:HH22	1:Y:517:LEU:HD11	1.46	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:221:LEU:HD22	1:Z:256:THR:HG21	1.62	0.81
1:H:281:TYR:HE1	1:H:321:GLN:HB2	1.45	0.81
1:I:227:LEU:HB2	1:I:251:VAL:CG1	2.13	0.81
1:J:766:ARG:HD3	1:K:772:TYR:HB2	2.54	0.81
1:M:180:LYS:C	1:M:182:CYS:H	1.80	0.81
1:O:228:HIS:NE2	1:O:312:PRO:HB3	1.95	0.81
1:Q:311:GLN:HB3	1:Q:312:PRO:HD2	1.61	0.81
1:Q:332:LEU:HD21	1:Q:407:MET:CB	2.10	0.81
1:S:221:LEU:HD21	1:S:256:THR:HG21	1.61	0.81
1:W:54:PRO:HB2	1:W:55:PRO:CD	2.10	0.81
1:A:273:ILE:HD13	1:A:316:LEU:HD11	3.88	0.81
1:B:130:GLU:HB2	1:B:136:LYS:HA	1.61	0.81
1:D:384:GLN:NE2	1:D:384:GLN:H	1.92	0.81
1:I:115:VAL:N	1:I:118:ASN:HD22	2.21	0.81
1:J:132:LYS:NZ	1:J:152:ILE:CD1	3.46	0.81
1:J:381:PRO:CA	1:J:405:THR:HG22	2.18	0.81
1:J:687:ARG:HG2	1:J:691:GLN:HE21	2.26	0.81
1:N:332:LEU:HD21	1:N:407:MET:HB2	1.61	0.81
1:N:755:THR:HG21	1:O:761:ARG:HG2	1.60	0.81
1:P:130:GLU:HB2	1:P:136:LYS:HA	1.61	0.81
1:Q:109:ILE:HD12	1:Q:153:PRO:CG	2.09	0.81
1:S:328:GLU:HA	1:S:328:GLU:OE1	1.79	0.81
1:U:262:ASP:HB3	1:U:264:TYR:CE1	2.16	0.81
1:D:802:LEU:HD12	1:D:806:THR:HG22	1.62	0.81
1:E:284:ILE:HD13	1:E:284:ILE:H	1.53	0.81
1:D:755:THR:HG21	1:E:761:ARG:HG2	1.98	0.81
1:M:284:ILE:HD11	1:M:300:ARG:HB3	1.62	0.81
1:N:279:ARG:HG3	1:N:280:HIS:HD2	1.45	0.81
1:O:485:GLU:HG2	1:O:486:LEU:H	1.44	0.81
1:O:517:LEU:HD12	1:O:517:LEU:H	1.45	0.81
1:U:11:PRO:HA	1:U:38:GLN:HA	1.63	0.81
1:W:115:VAL:O	1:W:118:ASN:HB3	1.81	0.81
1:W:755:THR:HG21	1:X:761:ARG:HG2	1.63	0.81
1:Z:116:LEU:HB3	1:Z:117:PRO:CD	2.10	0.81
1:B:759:LEU:HD21	1:C:765:VAL:HG22	1.63	0.80
1:I:109:ILE:HD12	1:I:153:PRO:CB	2.11	0.80
1:N:100:TYR:HB3	1:N:101:PRO:HD2	1.61	0.80
1:P:18:VAL:H	1:P:48:VAL:HG13	1.45	0.80
1:Q:109:ILE:CD1	1:Q:153:PRO:HG2	2.10	0.80
1:S:381:PRO:HA	1:S:405:THR:CG2	2.11	0.80
1:S:73:VAL:H	1:S:84:ARG:HB2	1.45	0.80
1:T:517:LEU:H	1:T:517:LEU:HD12	1.46	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:121:LEU:HB2	1:U:145:PHE:CB	2.10	0.80
1:C:185:ARG:HH22	1:C:207:ALA:HB3	1.46	0.80
1:C:221:LEU:HD22	1:C:256:THR:HB	1.63	0.80
1:C:745:LYS:HG3	1:D:753:ILE:HD11	2.06	0.80
1:D:227:LEU:O	1:D:250:LEU:HA	1.81	0.80
1:G:697:SER:HA	1:H:706:LEU:HD23	1.63	0.80
1:J:227:LEU:HB2	1:J:251:VAL:CG1	2.22	0.80
1:L:184:ASP:HB2	1:L:189:GLY:O	1.80	0.80
1:P:332:LEU:HD21	1:P:407:MET:CB	2.11	0.80
1:O:49:ARG:HH22	1:P:8:ILE:HD12	1.46	0.80
1:A:655:GLN:HG2	1:Z:649:ARG:HH21	177.08	0.80
1:B:180:LYS:C	1:B:182:CYS:H	3.18	0.80
1:D:19:LEU:HA	1:D:32:PRO:HB2	1.86	0.80
1:J:221:LEU:HD22	1:J:256:THR:CG2	2.11	0.80
1:K:327:SER:HB2	1:K:331:GLY:HA3	2.10	0.80
1:Q:539:LEU:HD22	1:Q:643:VAL:HG22	1.63	0.80
1:Z:815:PRO:C	1:Z:816:GLU:CA	2.48	0.80
1:A:734:ARG:HH21	1:A:735:ILE:HD13	4.27	0.80
1:C:601:MET:HG3	1:C:622:ALA:HB2	2.70	0.80
1:D:474:ARG:HG3	1:D:492:GLU:HB2	1.62	0.80
1:D:796:LYS:HA	1:D:799:THR:HG22	1.63	0.80
1:E:382:LEU:HD13	1:E:387:GLY:HA2	1.64	0.80
1:H:11:PRO:HA	1:H:38:GLN:HA	1.65	0.80
1:I:273:ILE:HD13	1:I:316:LEU:HD11	1.82	0.80
1:J:294:ASN:HD21	1:J:313:GLY:HA3	1.47	0.80
1:K:807:ILE:HD12	1:L:806:THR:HG21	1.63	0.80
1:L:115:VAL:N	1:L:118:ASN:HD22	1.96	0.80
1:L:654:LEU:HD12	1:M:662:ILE:HD12	2.78	0.80
1:O:28:VAL:HG12	1:O:30:VAL:HG23	1.62	0.80
1:Q:260:VAL:HA	1:Q:264:TYR:H	1.46	0.80
1:D:340:LEU:HD23	1:D:352:GLN:HA	1.93	0.80
1:E:387:GLY:HA3	1:E:402:ILE:HG22	1.67	0.80
1:G:182:CYS:O	1:G:190:ARG:HB2	1.91	0.80
1:O:194:GLU:HG2	1:O:195:GLU:H	1.45	0.80
1:O:11:PRO:HA	1:O:38:GLN:HA	1.63	0.80
1:S:517:LEU:HD12	1:S:517:LEU:H	1.44	0.80
1:S:65:VAL:HG12	1:S:110:THR:HG22	1.63	0.80
1:W:70:GLN:HB3	1:W:104:VAL:O	1.82	0.80
1:A:109:ILE:HD12	1:A:153:PRO:HG2	2.43	0.80
1:A:654:LEU:HD12	1:B:662:ILE:HD12	1.64	0.80
1:E:8:ILE:HG22	1:E:40:ASN:HD21	1.92	0.80
1:G:771:ILE:HD13	1:G:774:ARG:NH1	2.01	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:182:CYS:O	1:L:190:ARG:HB2	1.81	0.80
1:M:221:LEU:HD22	1:M:256:THR:CG2	2.11	0.80
1:T:539:LEU:HD22	1:T:643:VAL:HG22	1.64	0.80
1:Z:262:ASP:HB3	1:Z:264:TYR:CZ	2.17	0.80
1:E:653:ALA:HB3	1:F:662:ILE:HD11	1.62	0.80
1:H:163:ILE:HD12	1:H:163:ILE:H	2.05	0.80
1:I:653:ALA:HB3	1:J:662:ILE:HD11	1.64	0.80
1:K:132:LYS:HZ1	1:K:152:ILE:CD1	3.30	0.80
1:K:176:LEU:HB2	1:K:196:TRP:HB2	1.64	0.80
1:V:130:GLU:CB	1:V:136:LYS:HA	2.11	0.80
1:V:182:CYS:O	1:V:190:ARG:HB2	1.80	0.80
1:X:330:GLN:HB3	1:X:379:ALA:HB3	1.63	0.80
1:A:151:TYR:CD2	1:A:152:ILE:HD13	2.17	0.80
1:A:485:GLU:HG2	1:A:486:LEU:N	2.23	0.80
1:A:771:ILE:HD13	1:A:774:ARG:NH1	2.17	0.80
1:D:224:LYS:O	1:D:272:PRO:HD3	1.82	0.80
1:C:654:LEU:HD12	1:D:662:ILE:HD12	1.61	0.80
1:E:332:LEU:HB2	1:E:377:ARG:HB3	1.63	0.80
1:E:529:ILE:HD12	1:E:583:VAL:HG11	3.43	0.80
1:G:474:ARG:CG	1:G:492:GLU:HB2	2.12	0.80
1:I:1:MET:HE1	1:I:47:PRO:HB3	1.64	0.80
1:I:543:TYR:HE2	1:I:575:ILE:HG21	1.44	0.80
1:I:587:THR:HG23	1:I:590:ASP:HB3	1.63	0.80
1:K:252:THR:H	1:K:254:GLN:NE2	1.80	0.80
1:L:75:PHE:CZ	1:L:77:ILE:HG23	6.09	0.80
1:O:281:TYR:CE1	1:O:321:GLN:HB2	2.17	0.80
1:Q:474:ARG:HG3	1:Q:492:GLU:HB2	1.63	0.80
1:R:311:GLN:HB3	1:R:312:PRO:HD2	1.62	0.80
1:V:70:GLN:HB3	1:V:104:VAL:O	1.81	0.80
1:Y:175:ARG:NE	1:Y:263:VAL:HG22	1.97	0.80
1:B:120:ALA:HB2	1:B:164:GLN:HE22	2.27	0.80
1:H:381:PRO:HA	1:H:405:THR:CG2	2.12	0.80
1:H:539:LEU:HD22	1:H:643:VAL:HG22	1.98	0.80
1:J:11:PRO:HA	1:J:38:GLN:HA	1.69	0.80
1:K:381:PRO:CA	1:K:405:THR:HG22	2.28	0.80
1:L:601:MET:HG2	1:L:622:ALA:HB2	1.63	0.80
1:P:485:GLU:HG2	1:P:486:LEU:N	1.96	0.80
1:Q:121:LEU:HB2	1:Q:145:PHE:HB3	1.61	0.80
1:S:115:VAL:O	1:S:118:ASN:HB3	1.81	0.80
1:S:284:ILE:H	1:S:284:ILE:HD13	1.44	0.80
1:S:511:ARG:HH22	1:S:517:LEU:HD11	1.47	0.80
1:T:260:VAL:HB	1:T:263:VAL:HA	1.62	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:10:ILE:HD12	1:A:10:ILE:H	1.47	0.80
1:F:19:LEU:HD23	1:F:32:PRO:HB2	1.64	0.80
1:G:419:LEU:CG	1:G:420:PRO:HD2	2.11	0.80
1:H:36:ILE:HD13	1:H:36:ILE:O	1.82	0.80
1:I:19:LEU:HA	1:I:32:PRO:HB3	1.64	0.80
1:J:115:VAL:H	1:J:118:ASN:HD22	1.27	0.80
1:J:132:LYS:HZ1	1:J:152:ILE:CD1	3.50	0.80
1:N:130:GLU:H	1:N:137:VAL:HG12	1.45	0.80
1:R:221:LEU:CD2	1:R:256:THR:HG21	2.11	0.80
1:V:11:PRO:HA	1:V:38:GLN:HA	1.61	0.80
1:W:45:PHE:HB3	1:W:47:PRO:HD2	1.64	0.80
1:Y:116:LEU:HB3	1:Y:117:PRO:HD2	1.63	0.80
1:A:115:VAL:H	1:A:118:ASN:HD22	1.28	0.79
1:A:152:ILE:H	1:A:152:ILE:CD1	1.94	0.79
1:D:689:GLU:O	1:D:693:ILE:HD13	4.44	0.79
1:E:1:MET:HE3	1:E:47:PRO:HB3	1.77	0.79
1:I:224:LYS:HA	1:I:272:PRO:HG3	1.76	0.79
1:K:221:LEU:HD22	1:K:256:THR:CB	2.50	0.79
1:K:9:ARG:NH1	1:K:36:ILE:HA	2.01	0.79
1:M:221:LEU:HD22	1:M:256:THR:HB	2.38	0.79
1:O:284:ILE:HD13	1:O:284:ILE:H	1.46	0.79
1:R:527:ILE:HD13	1:R:527:ILE:H	1.46	0.79
1:S:332:LEU:HD21	1:S:407:MET:HB2	1.64	0.79
1:T:284:ILE:HD11	1:T:300:ARG:HB3	1.64	0.79
1:X:204:TYR:O	1:X:206:PRO:HD3	1.82	0.79
1:Y:785:GLN:HA	1:Z:790:VAL:HG21	1.63	0.79
1:H:495:PHE:HB3	1:H:514:LEU:HD11	1.67	0.79
1:L:785:GLN:HA	1:M:790:VAL:HG21	1.64	0.79
1:O:326:LEU:HD21	1:O:333:LEU:HG	1.62	0.79
1:R:260:VAL:HA	1:R:264:TYR:H	1.46	0.79
1:Y:221:LEU:HD22	1:Y:256:THR:HB	1.62	0.79
1:B:381:PRO:CA	1:B:405:THR:HG22	2.14	0.79
1:E:771:ILE:HD13	1:E:774:ARG:HH12	2.68	0.79
1:E:77:ILE:HG13	1:E:80:GLN:H	1.46	0.79
1:L:57:HIS:O	1:L:99:LEU:HD11	1.81	0.79
1:Q:176:LEU:HD13	1:Q:209:PHE:CD1	2.16	0.79
1:X:334:LEU:HD12	1:X:377:ARG:NH2	1.97	0.79
1:Y:601:MET:HG2	1:Y:622:ALA:HB2	1.63	0.79
1:C:221:LEU:HD22	1:C:256:THR:CB	2.12	0.79
1:D:167:VAL:HB	1:D:201:VAL:O	1.82	0.79
1:D:745:LYS:HG3	1:E:753:ILE:HD13	1.61	0.79
1:F:194:GLU:HG2	1:F:195:GLU:H	1.47	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:332:LEU:HD21	1:G:407:MET:HB3	1.65	0.79
1:J:472:ASP:HA	1:J:493:GLU:HB3	1.77	0.79
1:L:384:GLN:HE21	1:L:384:GLN:N	1.81	0.79
1:L:459:SER:CB	1:L:488:THR:HG22	2.12	0.79
1:N:327:SER:HB2	1:N:331:GLY:CA	2.13	0.79
1:Q:327:SER:CB	1:Q:331:GLY:HA3	2.11	0.79
1:T:11:PRO:HA	1:T:38:GLN:HA	1.62	0.79
1:T:67:ARG:HH21	1:T:107:LYS:HA	1.47	0.79
1:B:360:ARG:HG3	1:B:361:GLY:N	2.36	0.79
1:C:459:SER:CB	1:C:488:THR:HG22	2.11	0.79
1:H:115:VAL:N	1:H:118:ASN:HD22	2.31	0.79
1:K:332:LEU:HD21	1:K:407:MET:CB	2.12	0.79
1:K:340:LEU:HD23	1:K:352:GLN:HA	1.64	0.79
1:M:381:PRO:HA	1:M:405:THR:CG2	2.13	0.79
1:V:653:ALA:CB	1:W:662:ILE:CD1	2.58	0.79
1:F:1:MET:HE3	1:F:47:PRO:HB3	1.75	0.79
1:F:268:LEU:HD13	1:F:269:GLY:H	1.47	0.79
1:F:19:LEU:HA	1:F:32:PRO:CB	2.13	0.79
1:K:459:SER:CB	1:K:488:THR:HG22	2.26	0.79
1:N:1:MET:HE3	1:N:47:PRO:HB3	1.65	0.79
1:P:154:GLN:HG3	1:P:155:LYS:HG3	1.65	0.79
1:R:54:PRO:HB2	1:R:55:PRO:CD	2.12	0.79
1:A:70:GLN:HB3	1:A:104:VAL:H	1.76	0.79
1:B:273:ILE:HG13	1:B:308:PHE:HB3	1.80	0.79
1:B:511:ARG:HH22	1:B:517:LEU:HD11	1.47	0.79
1:D:517:LEU:O	1:D:545:TRP:HH2	1.64	0.79
1:J:587:THR:HG23	1:J:590:ASP:CB	2.53	0.79
1:L:472:ASP:HA	1:L:493:GLU:HB3	1.78	0.79
1:N:802:LEU:HD12	1:N:806:THR:HG22	1.64	0.79
1:S:777:LEU:HD11	1:T:783:LYS:CB	2.09	0.79
1:A:785:GLN:HA	1:B:790:VAL:HG21	1.79	0.79
1:A:394:LYS:HG2	1:B:329:GLN:HG3	1.74	0.79
1:F:341:GLU:HG2	1:F:370:LYS:HD3	1.64	0.79
1:H:579:VAL:HG13	1:H:599:ILE:HD12	2.57	0.79
1:K:338:GLN:CB	1:K:339:PRO:HD3	2.24	0.79
1:M:260:VAL:HA	1:M:264:TYR:H	1.48	0.79
1:P:221:LEU:CD2	1:P:256:THR:HG21	2.13	0.79
1:R:1:MET:CE	1:R:47:PRO:HB3	2.12	0.79
1:Y:481:VAL:HG11	1:Y:487:VAL:CG1	2.12	0.79
1:Z:154:GLN:HG3	1:Z:155:LYS:HG3	1.64	0.79
1:C:332:LEU:HD21	1:C:407:MET:HB2	1.64	0.79
1:F:176:LEU:CD1	1:F:209:PHE:HD1	1.96	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:286:ASP:HB3	1:G:296:LEU:HA	2.73	0.79
1:I:813:ALA:O	1:I:815:PRO:HD3	1.83	0.79
1:K:381:PRO:HA	1:K:405:THR:CG2	2.19	0.79
1:P:49:ARG:NH2	1:Q:8:ILE:HD12	1.97	0.79
1:Q:408:LEU:HD21	1:Q:414:LEU:HD12	1.64	0.79
1:S:481:VAL:HG11	1:S:487:VAL:CG1	2.12	0.79
1:U:327:SER:HB2	1:U:331:GLY:HA3	1.62	0.79
1:C:332:LEU:HB2	1:C:377:ARG:HB3	1.65	0.79
1:D:116:LEU:HB3	1:D:117:PRO:CD	2.13	0.79
1:E:338:GLN:HB2	1:E:339:PRO:HD3	1.64	0.79
1:G:587:THR:HG23	1:G:590:ASP:HB3	2.08	0.79
1:L:327:SER:HB2	1:L:331:GLY:HA3	1.64	0.79
1:M:1:MET:HE3	1:M:47:PRO:HB3	1.71	0.79
1:M:176:LEU:HD13	1:M:209:PHE:CD1	2.17	0.79
1:P:281:TYR:HD2	1:P:366:VAL:HG13	1.48	0.79
1:P:382:LEU:HD11	1:P:388:ILE:HD12	1.64	0.79
1:Q:495:PHE:HB3	1:Q:514:LEU:HD11	1.64	0.79
1:Q:526:VAL:HG22	1:Q:540:GLN:HG2	1.65	0.79
1:R:106:GLU:O	1:R:107:LYS:HD2	1.82	0.79
1:T:328:GLU:HA	1:T:328:GLU:OE1	1.81	0.79
1:D:182:CYS:SG	1:D:208:VAL:CG2	2.72	0.78
1:H:470:VAL:HB	1:H:479:ARG:HD2	1.64	0.78
1:H:472:ASP:HA	1:H:493:GLU:HB3	1.63	0.78
1:J:36:ILE:CD1	1:J:58:TYR:HE1	1.96	0.78
1:J:8:ILE:HG22	1:J:40:ASN:ND2	1.99	0.78
1:M:327:SER:CB	1:M:331:GLY:HA3	2.12	0.78
1:P:745:LYS:HG3	1:Q:753:ILE:CD1	2.13	0.78
1:U:381:PRO:HA	1:U:405:THR:CG2	2.13	0.78
1:Z:601:MET:HG2	1:Z:622:ALA:CB	2.13	0.78
1:B:384:GLN:NE2	1:B:384:GLN:H	1.79	0.78
1:C:120:ALA:HB2	1:C:164:GLN:HE22	2.61	0.78
1:E:30:VAL:HG13	1:E:74:LEU:HD11	1.65	0.78
1:F:452:ARG:HH11	1:F:452:ARG:CG	2.52	0.78
1:G:109:ILE:CD1	1:G:153:PRO:HB2	2.33	0.78
1:H:205:LEU:HD22	1:H:211:GLU:HB2	2.02	0.78
1:H:337:LEU:HD22	1:H:357:TRP:HZ3	1.49	0.78
1:K:15:TYR:HA	1:K:53:VAL:HB	1.65	0.78
1:L:384:GLN:HE21	1:L:384:GLN:H	1.26	0.78
1:N:542:ALA:HB3	1:N:639:ASP:HB2	1.65	0.78
1:P:332:LEU:HD21	1:P:407:MET:HB2	1.64	0.78
1:Q:183:PHE:HE2	1:Q:188:LYS:HA	1.48	0.78
1:T:281:TYR:CE1	1:T:321:GLN:HB2	2.18	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:328:GLU:OE1	1:X:328:GLU:HA	1.83	0.78
1:X:653:ALA:HB3	1:Y:662:ILE:CD1	2.10	0.78
1:A:113:GLN:HG2	1:A:150:THR:HB	2.08	0.78
1:A:662:ILE:HD11	1:M:653:ALA:CB	176.14	0.78
1:B:338:GLN:CB	1:B:339:PRO:HD3	2.13	0.78
1:E:785:GLN:HA	1:F:790:VAL:HG21	1.81	0.78
1:H:228:HIS:NE2	1:H:312:PRO:HB3	1.98	0.78
1:M:121:LEU:HD12	1:M:145:PHE:HD2	1.67	0.78
1:O:116:LEU:HB3	1:O:117:PRO:CD	2.11	0.78
1:O:24:ASN:HD22	1:O:30:VAL:HB	1.48	0.78
1:P:227:LEU:HB2	1:P:251:VAL:HG12	1.64	0.78
1:S:120:ALA:HB2	1:S:164:GLN:HE22	1.48	0.78
1:T:260:VAL:HA	1:T:264:TYR:H	1.48	0.78
1:Y:191:VAL:HG12	1:Y:194:GLU:HB2	1.65	0.78
1:B:328:GLU:CA	1:B:328:GLU:OE1	4.98	0.78
1:D:77:ILE:CG1	1:D:80:GLN:H	1.90	0.78
1:L:77:ILE:HG22	1:L:78:THR:N	1.98	0.78
1:M:65:VAL:HG12	1:M:110:THR:HG22	1.70	0.78
1:O:551:ASN:HB3	1:O:554:ASP:HB3	1.63	0.78
1:Q:227:LEU:HB2	1:Q:251:VAL:HG12	1.66	0.78
1:W:109:ILE:CD1	1:W:153:PRO:HB2	2.13	0.78
1:C:221:LEU:CD2	1:C:256:THR:HG21	2.14	0.78
1:I:1:MET:HE3	1:I:47:PRO:HB3	1.64	0.78
1:I:601:MET:HG2	1:I:622:ALA:HB2	2.33	0.78
1:L:327:SER:HB2	1:L:331:GLY:CA	2.24	0.78
1:Q:123:LEU:HD11	1:Q:143:TRP:HD1	1.47	0.78
1:Q:326:LEU:HD11	1:Q:359:ILE:HD12	1.65	0.78
1:V:130:GLU:H	1:V:137:VAL:HG13	1.48	0.78
1:Y:771:ILE:HD13	1:Y:774:ARG:NH1	1.99	0.78
1:A:123:LEU:HD11	1:A:143:TRP:HD1	1.47	0.78
1:A:151:TYR:HD2	1:A:152:ILE:HD13	1.49	0.78
1:A:49:ARG:NH2	1:B:8:ILE:HD12	4.48	0.78
1:C:167:VAL:HG22	1:C:201:VAL:HA	2.34	0.78
1:D:24:ASN:HD22	1:D:30:VAL:HB	1.68	0.78
1:E:762:VAL:O	1:E:766:ARG:HB2	2.24	0.78
1:F:70:GLN:HB3	1:F:104:VAL:H	2.63	0.78
1:G:328:GLU:OE1	1:G:362:PRO:HA	1.82	0.78
1:P:284:ILE:HD13	1:P:284:ILE:H	1.49	0.78
1:P:49:ARG:HH22	1:Q:8:ILE:CD1	1.96	0.78
1:S:381:PRO:CA	1:S:405:THR:HG22	2.11	0.78
1:U:689:GLU:O	1:U:693:ILE:HD13	1.84	0.78
1:W:123:LEU:HG	1:W:143:TRP:HB2	1.63	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:662:ILE:HD11	1:Z:653:ALA:CB	176.68	0.78
1:A:164:GLN:HB3	1:A:204:TYR:HA	1.86	0.78
1:D:601:MET:HG3	1:D:622:ALA:HB2	2.71	0.78
1:F:115:VAL:H	1:F:118:ASN:HD22	1.32	0.78
1:H:527:ILE:HD13	1:H:527:ILE:H	1.47	0.78
1:K:332:LEU:HD21	1:K:407:MET:HB2	1.89	0.78
1:K:5:GLU:HG2	1:K:43:VAL:HG21	2.03	0.78
1:K:543:TYR:HE2	1:K:575:ILE:HG21	1.46	0.78
1:M:511:ARG:HH22	1:M:517:LEU:HD11	1.61	0.78
1:O:54:PRO:HB2	1:O:55:PRO:HD3	1.66	0.78
1:R:653:ALA:HB3	1:S:662:ILE:HD11	1.65	0.78
1:S:273:ILE:CD1	1:S:316:LEU:HD21	2.13	0.78
1:V:381:PRO:HA	1:V:405:THR:HG22	1.63	0.78
1:Y:220:ILE:HD11	1:Y:257:GLU:N	1.98	0.78
1:Y:326:LEU:HD21	1:Y:333:LEU:HG	1.65	0.78
1:Y:381:PRO:CA	1:Y:405:THR:HG22	2.14	0.78
1:Z:109:ILE:CD1	1:Z:153:PRO:HB2	2.13	0.78
1:A:284:ILE:H	1:A:284:ILE:HD13	4.47	0.78
1:D:419:LEU:HG	1:D:420:PRO:CD	2.06	0.78
1:E:601:MET:HG2	1:E:622:ALA:CB	2.64	0.78
1:F:73:VAL:H	1:F:84:ARG:HB2	2.74	0.78
1:I:338:GLN:CB	1:I:339:PRO:HD3	2.26	0.78
1:I:5:GLU:HG2	1:I:43:VAL:HG21	1.64	0.78
1:K:176:LEU:HD13	1:K:209:PHE:CD1	2.17	0.78
1:N:152:ILE:CD1	1:N:152:ILE:H	1.93	0.78
1:Q:481:VAL:HG11	1:Q:487:VAL:CG1	2.13	0.78
1:A:286:ASP:HB3	1:A:296:LEU:HA	1.66	0.78
1:C:14:HIS:HB3	1:C:56:ARG:HG3	2.35	0.78
1:F:606:PHE:HA	1:F:622:ALA:HA	1.87	0.78
1:H:125:ALA:HB3	1:H:140:GLY:HA2	1.64	0.78
1:H:476:LYS:HE2	1:I:485:GLU:HG3	1.66	0.78
1:J:286:ASP:HB3	1:J:296:LEU:HA	2.35	0.78
1:L:729:ARG:NH1	1:L:729:ARG:HB2	2.00	0.78
1:O:490:ASP:CG	1:O:491:PRO:HD2	2.02	0.78
1:Q:333:LEU:HB2	1:Q:359:ILE:HD11	1.66	0.78
1:U:382:LEU:HD11	1:U:388:ILE:HD11	1.66	0.78
1:W:109:ILE:HD12	1:W:153:PRO:CB	2.13	0.78
1:Z:384:GLN:NE2	1:Z:384:GLN:H	1.82	0.78
1:F:182:CYS:SG	1:F:208:VAL:HB	2.24	0.78
1:G:653:ALA:CB	1:H:662:ILE:CD1	2.83	0.78
1:J:227:LEU:HB2	1:J:251:VAL:HG12	1.92	0.78
1:K:14:HIS:HB2	1:K:56:ARG:HB2	1.69	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:19:LEU:HA	1:K:32:PRO:HB3	1.66	0.78
1:K:164:GLN:NE2	1:K:204:TYR:CB	2.47	0.78
1:P:130:GLU:HA	1:P:137:VAL:H	1.47	0.78
1:S:45:PHE:HB3	1:S:47:PRO:HD2	1.65	0.78
1:U:328:GLU:OE1	1:U:328:GLU:HA	1.84	0.78
1:V:123:LEU:CG	1:V:143:TRP:HB2	2.14	0.78
1:W:337:LEU:HD22	1:W:357:TRP:HZ3	1.48	0.78
1:Y:30:VAL:HG22	1:Y:74:LEU:HG	1.65	0.78
1:D:60:ILE:H	1:D:60:ILE:HD12	1.47	0.77
1:G:227:LEU:HB2	1:G:251:VAL:CG1	2.13	0.77
1:H:115:VAL:O	1:H:118:ASN:HB3	2.13	0.77
1:H:239:ARG:HH21	1:H:257:GLU:HG2	1.49	0.77
1:J:224:LYS:HA	1:J:272:PRO:HG3	1.87	0.77
1:N:332:LEU:HD21	1:N:407:MET:CB	2.14	0.77
1:S:132:LYS:HZ1	1:S:152:ILE:CD1	1.90	0.77
1:U:330:GLN:CG	1:U:379:ALA:HB3	2.12	0.77
1:W:381:PRO:CA	1:W:405:THR:HG22	2.13	0.77
1:X:61:VAL:HG13	1:X:65:VAL:HG23	1.65	0.77
1:Y:601:MET:CG	1:Y:622:ALA:HB2	2.14	0.77
1:E:3:THR:HG22	1:E:50:MET:CE	2.76	0.77
1:E:623:ARG:HG3	1:E:624:ASP:H	1.78	0.77
1:G:601:MET:HG2	1:G:622:ALA:CB	2.13	0.77
1:I:419:LEU:HD23	1:I:421:SER:H	1.77	0.77
1:J:490:ASP:CG	1:J:491:PRO:HD2	2.03	0.77
1:M:260:VAL:HB	1:M:263:VAL:HA	1.67	0.77
1:M:340:LEU:HD23	1:M:353:ALA:H	2.71	0.77
1:Q:1:MET:CE	1:Q:47:PRO:HB3	2.15	0.77
1:C:130:GLU:HB2	1:C:136:LYS:HA	1.82	0.77
1:C:653:ALA:HB3	1:D:662:ILE:HD13	2.53	0.77
1:D:77:ILE:HG13	1:D:79:GLY:H	2.54	0.77
1:G:260:VAL:HB	1:G:263:VAL:HA	1.66	0.77
1:J:176:LEU:HD13	1:J:209:PHE:CD1	2.16	0.77
1:M:481:VAL:HG11	1:M:487:VAL:CG1	2.30	0.77
1:M:785:GLN:HA	1:N:790:VAL:HG21	1.67	0.77
1:Q:14:HIS:HB3	1:Q:56:ARG:HB2	1.66	0.77
1:S:109:ILE:HD12	1:S:153:PRO:CB	2.13	0.77
1:T:474:ARG:HG3	1:T:492:GLU:HB2	1.64	0.77
1:X:469:GLN:HB3	1:X:496:THR:HG21	1.65	0.77
1:Z:174:LEU:HB2	1:Z:198:VAL:HB	1.64	0.77
1:Z:61:VAL:HG13	1:Z:65:VAL:HG23	1.65	0.77
1:A:653:ALA:CB	1:B:662:ILE:CD1	2.67	0.77
1:C:517:LEU:H	1:C:517:LEU:HD12	1.48	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:281:TYR:HE1	1:D:321:GLN:HB2	1.49	0.77
1:D:469:GLN:HB3	1:D:496:THR:HG21	1.78	0.77
1:G:338:GLN:CB	1:G:339:PRO:HD3	2.12	0.77
1:V:113:GLN:HG2	1:V:150:THR:HB	1.65	0.77
1:Z:260:VAL:HA	1:Z:264:TYR:H	1.49	0.77
1:A:24:ASN:HD22	1:A:30:VAL:HB	1.48	0.77
1:A:67:ARG:HH21	1:A:107:LYS:HA	1.47	0.77
1:D:221:LEU:CD2	1:D:256:THR:HG21	2.46	0.77
1:H:601:MET:CG	1:H:622:ALA:HB2	2.14	0.77
1:K:204:TYR:O	1:K:206:PRO:HD3	1.99	0.77
1:L:755:THR:HG21	1:M:761:ARG:HG2	1.74	0.77
1:O:338:GLN:HB3	1:O:339:PRO:HD3	1.67	0.77
1:S:490:ASP:CG	1:S:491:PRO:HD2	2.04	0.77
1:T:284:ILE:HD13	1:T:284:ILE:H	1.50	0.77
1:Y:45:PHE:HB3	1:Y:47:PRO:HD2	1.65	0.77
1:A:340:LEU:HD23	1:A:352:GLN:HA	2.01	0.77
1:A:523:PHE:CE1	1:A:568:VAL:HG12	2.28	0.77
1:B:125:ALA:HB1	1:B:128:ASP:HB3	1.67	0.77
1:D:130:GLU:HB2	1:D:136:LYS:HA	1.67	0.77
1:D:297:GLY:O	1:E:276:LEU:HD22	1.85	0.77
1:F:5:GLU:OE1	1:F:43:VAL:HG11	2.31	0.77
1:H:697:SER:HA	1:I:706:LEU:HD23	1.66	0.77
1:M:381:PRO:CA	1:M:405:THR:HG22	2.13	0.77
1:P:587:THR:HG23	1:P:590:ASP:HB3	1.67	0.77
1:Q:115:VAL:HB	1:Q:148:PRO:HA	1.67	0.77
1:S:182:CYS:O	1:S:190:ARG:HB2	1.84	0.77
1:U:182:CYS:O	1:U:190:ARG:HB2	1.83	0.77
1:W:19:LEU:HA	1:W:32:PRO:CB	2.15	0.77
1:A:204:TYR:O	1:A:206:PRO:HD3	1.85	0.77
1:A:653:ALA:HB3	1:B:662:ILE:CD1	2.14	0.77
1:B:239:ARG:HH21	1:B:257:GLU:HG2	1.50	0.77
1:B:262:ASP:HB3	1:B:264:TYR:CE1	2.45	0.77
1:C:338:GLN:HB2	1:C:339:PRO:HD3	1.67	0.77
1:D:182:CYS:O	1:D:190:ARG:HB2	2.04	0.77
1:J:382:LEU:HB2	1:J:404:SER:O	1.93	0.77
1:K:337:LEU:HD22	1:K:357:TRP:CZ3	2.20	0.77
1:V:176:LEU:HD13	1:V:209:PHE:HD1	1.50	0.77
1:W:653:ALA:HB1	1:X:662:ILE:HD11	1.65	0.77
1:A:472:ASP:HA	1:A:493:GLU:HB3	1.67	0.77
1:B:24:ASN:ND2	1:B:30:VAL:HB	2.00	0.77
1:C:332:LEU:HD21	1:C:407:MET:HB3	1.64	0.77
1:D:472:ASP:HA	1:D:493:GLU:HB3	1.66	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:273:ILE:HD11	1:E:308:PHE:HD2	2.67	0.77
1:F:24:ASN:ND2	1:F:30:VAL:HB	2.34	0.77
1:K:330:GLN:HB3	1:K:379:ALA:HB3	1.68	0.77
1:L:252:THR:H	1:L:254:GLN:HE21	1.30	0.77
1:M:771:ILE:HD13	1:M:774:ARG:NH1	1.99	0.77
1:N:332:LEU:HB2	1:N:377:ARG:HB3	1.65	0.77
1:O:332:LEU:HD21	1:O:407:MET:HB3	1.66	0.77
1:Q:130:GLU:CB	1:Q:136:LYS:HA	2.14	0.77
1:U:14:HIS:CB	1:U:56:ARG:HB2	2.14	0.77
1:U:523:PHE:CE1	1:U:568:VAL:HG12	2.19	0.77
1:X:30:VAL:HG22	1:X:74:LEU:HG	1.67	0.77
1:A:662:ILE:CD1	1:Z:653:ALA:CB	177.31	0.77
1:C:164:GLN:HB3	1:C:204:TYR:HA	1.80	0.77
1:D:1:MET:HE1	1:D:47:PRO:HB3	1.64	0.77
1:C:745:LYS:HG3	1:D:753:ILE:CD1	2.51	0.77
1:I:459:SER:CB	1:I:488:THR:HG22	2.31	0.77
1:L:19:LEU:HD23	1:L:32:PRO:HB2	1.67	0.77
1:M:284:ILE:HD13	1:M:284:ILE:H	1.49	0.77
1:N:9:ARG:NH1	1:N:36:ILE:HA	1.99	0.77
1:P:571:ALA:O	1:P:575:ILE:HD13	1.85	0.77
1:T:73:VAL:H	1:T:84:ARG:HB2	1.49	0.77
1:V:176:LEU:HB2	1:V:196:TRP:HB2	1.66	0.77
1:W:327:SER:CB	1:W:331:GLY:HA3	2.14	0.77
1:Y:109:ILE:HD12	1:Y:153:PRO:HG2	1.65	0.77
1:Y:175:ARG:HH21	1:Y:263:VAL:HG13	1.49	0.77
1:A:120:ALA:HB3	1:A:162:ILE:HG13	1.67	0.77
1:D:109:ILE:HD12	1:D:153:PRO:CG	2.67	0.77
1:E:332:LEU:HD21	1:E:407:MET:HB2	1.85	0.77
1:F:185:ARG:HG3	1:F:206:PRO:CB	2.41	0.77
1:F:605:GLY:O	1:F:623:ARG:HB2	1.85	0.77
1:G:180:LYS:C	1:G:182:CYS:H	2.99	0.77
1:X:332:LEU:HB2	1:X:377:ARG:HB3	1.66	0.77
1:B:766:ARG:HD3	1:C:772:TYR:HB2	2.09	0.76
1:C:338:GLN:CB	1:C:339:PRO:HD3	2.19	0.76
1:E:182:CYS:SG	1:E:208:VAL:CG2	2.73	0.76
1:H:332:LEU:HD21	1:H:407:MET:HB3	1.66	0.76
1:H:338:GLN:CB	1:H:339:PRO:HD3	2.18	0.76
1:L:419:LEU:HD22	1:L:422:GLY:H	1.48	0.76
1:N:28:VAL:HG12	1:N:30:VAL:HG23	1.67	0.76
1:Q:245:THR:HG22	1:R:219:VAL:CG1	2.14	0.76
1:Q:5:GLU:CG	1:Q:43:VAL:HG21	2.14	0.76
1:R:176:LEU:HD13	1:R:209:PHE:HD1	1.48	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:65:VAL:HA	1:R:110:THR:CA	2.15	0.76
1:Z:495:PHE:HB3	1:Z:514:LEU:HD11	1.65	0.76
1:B:452:ARG:HH11	1:B:452:ARG:HG3	1.48	0.76
1:A:476:LYS:HE2	1:B:485:GLU:HG3	1.67	0.76
1:C:601:MET:HG2	1:C:622:ALA:HB2	1.66	0.76
1:D:273:ILE:HD11	1:D:308:PHE:HD2	3.39	0.76
1:E:564:VAL:HG22	1:E:631:ASN:HD22	2.18	0.76
1:F:390:VAL:HG12	1:F:408:LEU:HD23	1.65	0.76
1:G:14:HIS:HB3	1:G:56:ARG:HB2	1.70	0.76
1:G:807:ILE:HD12	1:G:808:ARG:N	2.01	0.76
1:J:330:GLN:HB3	1:J:379:ALA:HB3	1.79	0.76
1:M:600:ARG:NH1	1:M:622:ALA:HB3	2.10	0.76
1:S:121:LEU:HB2	1:S:145:PHE:HB3	1.67	0.76
1:S:130:GLU:H	1:S:137:VAL:HG13	1.49	0.76
1:S:283:VAL:HG22	1:S:301:VAL:HG12	1.68	0.76
1:T:529:ILE:HG22	1:T:580:ARG:HB2	1.67	0.76
1:W:24:ASN:HD22	1:W:30:VAL:HB	1.50	0.76
1:Z:130:GLU:H	1:Z:137:VAL:HG13	1.50	0.76
1:Z:1:MET:HE3	1:Z:47:PRO:HB3	1.67	0.76
1:C:220:ILE:HD12	1:C:251:VAL:O	4.74	0.76
1:E:796:LYS:HA	1:E:799:THR:HG22	1.65	0.76
1:F:36:ILE:O	1:F:36:ILE:HD13	1.86	0.76
1:K:281:TYR:CE1	1:K:321:GLN:HB2	2.32	0.76
1:K:419:LEU:HD23	1:K:421:SER:H	1.62	0.76
1:M:384:GLN:H	1:M:384:GLN:NE2	1.83	0.76
1:N:116:LEU:HB3	1:N:117:PRO:CD	2.14	0.76
1:Q:785:GLN:HA	1:R:790:VAL:HG21	1.67	0.76
1:T:125:ALA:HB3	1:T:140:GLY:HA2	1.65	0.76
1:V:539:LEU:HD22	1:V:643:VAL:HG22	1.65	0.76
1:V:687:ARG:HG2	1:V:691:GLN:HE21	1.50	0.76
1:W:221:LEU:HD22	1:W:256:THR:CB	2.15	0.76
1:Z:109:ILE:HD12	1:Z:153:PRO:CB	2.15	0.76
1:B:28:VAL:HG12	1:B:30:VAL:HG23	1.67	0.76
1:E:523:PHE:CE1	1:E:568:VAL:HG12	2.49	0.76
1:F:767:GLU:O	1:F:771:ILE:HD13	1.86	0.76
1:J:132:LYS:HZ2	1:J:152:ILE:HD12	1.90	0.76
1:J:16:ILE:HA	1:J:34:THR:OG1	2.14	0.76
1:O:330:GLN:HB3	1:O:379:ALA:HB3	1.66	0.76
1:O:697:SER:HA	1:P:706:LEU:HD23	1.66	0.76
1:P:394:LYS:HG2	1:Q:329:GLN:CG	2.16	0.76
1:R:175:ARG:HH21	1:R:263:VAL:HG13	1.49	0.76
1:X:115:VAL:O	1:X:118:ASN:HB3	1.84	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:481:VAL:HG11	1:A:487:VAL:HG13	1.66	0.76
1:E:227:LEU:HB2	1:E:251:VAL:CG1	2.15	0.76
1:J:84:ARG:HH22	1:J:101:PRO:HD2	1.51	0.76
1:I:799:THR:HG21	1:J:801:ALA:HB1	2.02	0.76
1:M:90:ILE:H	1:M:90:ILE:HD13	3.48	0.76
1:O:419:LEU:HD12	1:O:494:GLN:NE2	1.99	0.76
1:P:164:GLN:HB3	1:P:204:TYR:CB	2.15	0.76
1:R:330:GLN:HG3	1:R:379:ALA:HB3	1.64	0.76
1:S:777:LEU:CD1	1:T:783:LYS:HB2	2.11	0.76
1:U:176:LEU:HB2	1:U:196:TRP:HB2	1.67	0.76
1:U:332:LEU:HB2	1:U:377:ARG:HB3	1.65	0.76
1:W:381:PRO:HA	1:W:405:THR:CG2	2.13	0.76
1:Y:228:HIS:NE2	1:Y:312:PRO:HB3	2.00	0.76
1:A:8:ILE:HD12	1:Z:49:ARG:NH2	289.03	0.76
1:A:419:LEU:HD12	1:A:494:GLN:HE21	2.34	0.76
1:E:262:ASP:HB3	1:E:264:TYR:CE1	2.47	0.76
1:E:19:LEU:HA	1:E:32:PRO:HB3	1.67	0.76
1:F:407:MET:N	1:F:407:MET:SD	3.03	0.76
1:H:19:LEU:HD23	1:H:32:PRO:HB2	1.66	0.76
1:H:45:PHE:HB3	1:H:47:PRO:HD2	1.82	0.76
1:K:260:VAL:HA	1:K:264:TYR:H	1.47	0.76
1:K:813:ALA:O	1:K:815:PRO:HD3	2.27	0.76
1:Q:262:ASP:HB3	1:Q:264:TYR:CE1	2.21	0.76
1:V:495:PHE:HB3	1:V:514:LEU:HD11	1.67	0.76
1:W:176:LEU:HD13	1:W:209:PHE:HD1	1.50	0.76
1:Z:511:ARG:HH22	1:Z:517:LEU:HD11	1.49	0.76
1:D:176:LEU:HD13	1:D:209:PHE:CD1	2.61	0.76
1:D:19:LEU:HA	1:D:32:PRO:CB	2.25	0.76
1:I:234:ASN:O	1:I:235:PHE:HB3	1.86	0.76
1:K:115:VAL:O	1:K:118:ASN:HB3	1.98	0.76
1:K:167:VAL:HG22	1:K:201:VAL:HA	1.66	0.76
1:L:130:GLU:H	1:L:137:VAL:HG13	3.61	0.76
1:L:382:LEU:HD13	1:L:387:GLY:HA2	1.85	0.76
1:R:517:LEU:H	1:R:517:LEU:HD12	1.49	0.76
1:U:175:ARG:HE	1:U:263:VAL:HG22	1.51	0.76
1:Y:1:MET:CE	1:Y:47:PRO:HB3	2.16	0.76
1:Y:176:LEU:HD22	1:Y:209:PHE:HB3	1.67	0.76
1:Z:221:LEU:HD22	1:Z:256:THR:CG2	2.15	0.76
1:Z:381:PRO:HA	1:Z:405:THR:CG2	2.15	0.76
1:A:419:LEU:HD22	1:A:422:GLY:H	1.89	0.76
1:B:90:ILE:HD12	1:B:154:GLN:HG2	5.94	0.76
1:C:125:ALA:HB3	1:C:140:GLY:HA2	2.12	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:495:PHE:HB3	1:E:514:LEU:HD11	1.66	0.76
1:F:221:LEU:HD22	1:F:256:THR:HG21	1.66	0.76
1:G:601:MET:CG	1:G:622:ALA:HB2	2.14	0.76
1:J:288:MET:CE	1:J:294:ASN:ND2	2.49	0.76
1:K:14:HIS:HB3	1:K:56:ARG:HG3	1.67	0.76
1:R:419:LEU:CG	1:R:420:PRO:HD2	2.07	0.76
1:U:529:ILE:HD12	1:U:583:VAL:HG11	1.67	0.76
1:V:54:PRO:HB2	1:V:55:PRO:CD	2.16	0.76
1:X:19:LEU:HA	1:X:32:PRO:CB	2.16	0.76
1:Y:501:SER:HB3	1:Y:508:PRO:HA	1.67	0.76
1:B:5:GLU:HG2	1:B:43:VAL:HG21	1.72	0.76
1:D:785:GLN:HA	1:E:790:VAL:HG21	1.76	0.76
1:G:380:ILE:HD12	1:G:388:ILE:HG12	1.68	0.76
1:I:796:LYS:O	1:I:799:THR:HG22	1.85	0.76
1:J:284:ILE:H	1:J:284:ILE:HD13	1.51	0.76
1:J:575:ILE:HD12	1:J:603:VAL:HG13	1.68	0.76
1:K:600:ARG:NH1	1:K:622:ALA:HB3	2.31	0.76
1:K:8:ILE:H	1:K:8:ILE:HD13	4.29	0.76
1:N:175:ARG:HE	1:N:263:VAL:HG22	1.51	0.76
1:P:115:VAL:O	1:P:118:ASN:HB3	1.86	0.76
1:U:495:PHE:HB3	1:U:514:LEU:HD11	1.68	0.76
1:Y:54:PRO:CB	1:Y:55:PRO:HD3	2.03	0.76
1:B:304:GLY:H	1:B:306:LYS:NZ	1.84	0.76
1:B:49:ARG:NH1	1:C:10:ILE:HG23	9.22	0.76
1:E:287:PRO:HA	1:E:314:GLU:OE2	1.85	0.76
1:F:227:LEU:HB2	1:F:251:VAL:CG1	2.16	0.76
1:I:154:GLN:HG3	1:I:155:LYS:HG3	1.69	0.76
1:J:9:ARG:NH1	1:J:36:ILE:HA	2.01	0.76
1:M:536:ARG:HB2	1:M:646:VAL:HB	1.67	0.76
1:M:762:VAL:O	1:M:766:ARG:HB2	1.85	0.76
1:N:338:GLN:CB	1:N:339:PRO:HD3	2.14	0.76
1:R:19:LEU:HA	1:R:32:PRO:CB	2.15	0.76
1:W:115:VAL:H	1:W:118:ASN:ND2	1.81	0.76
1:W:175:ARG:HE	1:W:263:VAL:HG22	1.48	0.76
1:D:14:HIS:NE2	1:D:16:ILE:HD11	2.00	0.75
1:D:332:LEU:HD21	1:D:407:MET:HB2	1.65	0.75
1:G:18:VAL:CG1	1:G:48:VAL:HG22	2.31	0.75
1:H:481:VAL:HG11	1:H:487:VAL:CG1	2.15	0.75
1:N:213:LEU:HD13	1:N:214:ASP:H	1.51	0.75
1:Q:476:LYS:HE2	1:R:485:GLU:HG3	1.67	0.75
1:X:459:SER:CB	1:X:488:THR:HG22	2.16	0.75
1:Y:176:LEU:HD13	1:Y:209:PHE:HD1	1.50	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:729:ARG:HB2	1:A:729:ARG:HH11	1.51	0.75
1:C:239:ARG:NH2	1:C:257:GLU:HG2	2.20	0.75
1:C:771:ILE:HD13	1:C:774:ARG:NH1	2.01	0.75
1:E:182:CYS:SG	1:E:208:VAL:HG21	2.25	0.75
1:F:182:CYS:SG	1:F:208:VAL:HG21	2.75	0.75
1:H:9:ARG:NH1	1:H:36:ILE:HA	2.00	0.75
1:H:766:ARG:HD3	1:I:772:TYR:HB2	1.67	0.75
1:K:123:LEU:HD11	1:K:143:TRP:CD1	2.22	0.75
1:J:759:LEU:HD21	1:K:765:VAL:HG22	1.68	0.75
1:M:19:LEU:HA	1:M:32:PRO:HB3	1.76	0.75
1:Q:245:THR:CG2	1:R:219:VAL:CG1	2.64	0.75
1:R:262:ASP:HB3	1:R:264:TYR:CE1	2.21	0.75
1:R:337:LEU:HG	1:R:353:ALA:O	1.87	0.75
1:S:176:LEU:HD13	1:S:209:PHE:CD1	2.20	0.75
1:T:381:PRO:HA	1:T:405:THR:CG2	2.16	0.75
1:T:766:ARG:HD3	1:U:772:TYR:HB2	1.65	0.75
1:Y:796:LYS:HA	1:Y:799:THR:CG2	2.16	0.75
1:A:182:CYS:SG	1:A:208:VAL:CG2	2.75	0.75
1:A:526:VAL:HG22	1:A:540:GLN:HG2	1.68	0.75
1:B:334:LEU:HD12	1:B:377:ARG:NH2	2.30	0.75
1:C:283:VAL:HG22	1:C:301:VAL:HG12	1.68	0.75
1:D:121:LEU:HB2	1:D:145:PHE:HB3	1.81	0.75
1:D:332:LEU:HB2	1:D:377:ARG:HB3	1.73	0.75
1:F:459:SER:HB3	1:F:488:THR:CG2	2.49	0.75
1:J:332:LEU:HD21	1:J:407:MET:HB3	1.67	0.75
1:K:221:LEU:HD21	1:K:256:THR:CG2	2.46	0.75
1:L:70:GLN:HB3	1:L:104:VAL:O	4.51	0.75
1:L:115:VAL:H	1:L:118:ASN:ND2	2.16	0.75
1:N:19:LEU:HA	1:N:32:PRO:HB3	1.68	0.75
1:O:230:ARG:HG2	1:O:248:GLU:HG2	1.69	0.75
1:P:529:ILE:HD12	1:P:583:VAL:HG11	1.67	0.75
1:P:745:LYS:HG3	1:Q:753:ILE:HD11	1.68	0.75
1:S:281:TYR:CE1	1:S:321:GLN:HB2	2.21	0.75
1:W:65:VAL:HG12	1:W:110:THR:HG22	1.68	0.75
1:W:734:ARG:HH21	1:W:735:ILE:HD13	1.51	0.75
1:X:73:VAL:N	1:X:84:ARG:HB2	2.01	0.75
1:Y:281:TYR:CE1	1:Y:321:GLN:HB2	2.21	0.75
1:Z:11:PRO:HA	1:Z:38:GLN:HA	1.65	0.75
1:Z:571:ALA:O	1:Z:575:ILE:HG12	1.85	0.75
1:C:239:ARG:HH21	1:C:257:GLU:HG2	1.57	0.75
1:C:326:LEU:HD21	1:C:333:LEU:HG	1.97	0.75
1:C:45:PHE:HB3	1:C:47:PRO:HD2	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:327:SER:CB	1:G:331:GLY:HA3	2.18	0.75
1:K:729:ARG:HB2	1:K:729:ARG:HH11	1.75	0.75
1:M:337:LEU:HD22	1:M:357:TRP:CZ3	2.21	0.75
1:P:330:GLN:HE22	1:P:360:ARG:HD2	1.52	0.75
1:P:87:ASP:CG	1:P:88:GLN:H	1.90	0.75
1:W:228:HIS:NE2	1:W:312:PRO:HB3	2.01	0.75
1:X:338:GLN:HB2	1:X:339:PRO:HD3	1.68	0.75
1:E:273:ILE:HD13	1:E:316:LEU:HD11	1.68	0.75
1:E:9:ARG:NH1	1:E:36:ILE:HA	2.05	0.75
1:F:335:LYS:HD3	1:F:359:ILE:HD11	1.68	0.75
1:I:151:TYR:CD2	1:I:152:ILE:HD13	3.08	0.75
1:J:19:LEU:HD23	1:J:32:PRO:HB2	1.94	0.75
1:J:281:TYR:CE1	1:J:321:GLN:HB2	2.22	0.75
1:N:284:ILE:H	1:N:284:ILE:HD13	1.52	0.75
1:Q:490:ASP:CG	1:Q:491:PRO:HD2	2.05	0.75
1:Q:653:ALA:HB1	1:R:662:ILE:CD1	2.15	0.75
1:S:1:MET:CE	1:S:47:PRO:HB3	2.16	0.75
1:T:469:GLN:HB3	1:T:496:THR:HG21	1.68	0.75
1:A:729:ARG:HB2	1:A:729:ARG:NH1	2.01	0.75
1:C:327:SER:CB	1:C:331:GLY:HA3	2.17	0.75
1:I:332:LEU:HD21	1:I:407:MET:HB3	1.93	0.75
1:J:7:ILE:HD13	1:J:41:GLU:OE1	4.55	0.75
1:M:130:GLU:HA	1:M:137:VAL:HG13	1.68	0.75
1:M:5:GLU:HG2	1:M:43:VAL:CG2	2.43	0.75
1:O:154:GLN:HG3	1:O:155:LYS:HG3	1.68	0.75
1:P:100:TYR:HB3	1:P:101:PRO:CD	2.16	0.75
1:P:221:LEU:HD22	1:P:256:THR:CG2	2.16	0.75
1:P:224:LYS:HA	1:P:272:PRO:HG3	1.67	0.75
1:Q:501:SER:HB3	1:Q:508:PRO:HA	1.69	0.75
1:S:328:GLU:OE1	1:S:362:PRO:HA	1.87	0.75
1:A:171:ASN:O	1:A:216:VAL:HA	1.85	0.75
1:A:452:ARG:HH11	1:A:452:ARG:HG3	1.67	0.75
1:F:284:ILE:H	1:F:284:ILE:HD13	1.47	0.75
1:M:10:ILE:HD12	1:M:10:ILE:H	4.21	0.75
1:M:600:ARG:HH12	1:M:622:ALA:HB3	1.51	0.75
1:N:130:GLU:H	1:N:137:VAL:CG1	2.00	0.75
1:N:767:GLU:O	1:N:771:ILE:HD13	1.86	0.75
1:O:485:GLU:HG2	1:O:486:LEU:N	2.02	0.75
1:P:527:ILE:HD13	1:P:527:ILE:H	1.51	0.75
1:V:273:ILE:HG13	1:V:308:PHE:HB3	1.69	0.75
1:W:284:ILE:H	1:W:284:ILE:HD13	1.50	0.75
1:W:417:LYS:O	1:W:418:GLU:HB2	1.85	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:337:LEU:HD22	1:X:357:TRP:CZ3	2.19	0.75
1:A:790:VAL:HG21	1:M:785:GLN:HA	132.06	0.75
1:B:380:ILE:HD12	1:B:388:ILE:HD13	3.41	0.75
1:D:262:ASP:HB3	1:D:264:TYR:CE1	2.53	0.75
1:E:67:ARG:HH21	1:E:107:LYS:HA	1.67	0.75
1:F:45:PHE:HB3	1:F:47:PRO:HD2	1.77	0.75
1:H:284:ILE:HD13	1:H:284:ILE:H	1.51	0.75
1:H:85:HIS:NE2	1:H:102:GLY:HA3	2.20	0.75
1:I:332:LEU:HB2	1:I:377:ARG:HB3	1.69	0.75
1:J:221:LEU:CD2	1:J:256:THR:CG2	2.64	0.75
1:K:11:PRO:HA	1:K:38:GLN:HA	1.67	0.75
1:K:230:ARG:HH11	1:K:230:ARG:HB3	1.91	0.75
1:L:337:LEU:HG	1:L:353:ALA:O	1.85	0.75
1:N:785:GLN:HA	1:O:790:VAL:HG21	1.68	0.75
1:O:1:MET:CE	1:O:47:PRO:HB3	2.16	0.75
1:R:14:HIS:ND1	1:R:36:ILE:HG22	2.01	0.75
1:C:600:ARG:NH1	1:C:622:ALA:HB3	2.02	0.75
1:H:417:LYS:O	1:H:418:GLU:HB2	1.85	0.75
1:J:120:ALA:HB2	1:J:164:GLN:HE22	1.51	0.75
1:J:382:LEU:HD13	1:J:387:GLY:HA2	1.69	0.75
1:J:36:ILE:HD11	1:J:58:TYR:HE1	1.51	0.75
1:L:154:GLN:HG3	1:L:155:LYS:HE3	1.68	0.75
1:M:113:GLN:HG2	1:M:150:THR:HB	2.26	0.75
1:N:419:LEU:CG	1:N:420:PRO:HD2	2.13	0.75
1:Q:182:CYS:O	1:Q:190:ARG:HB2	1.86	0.75
1:S:60:ILE:HD12	1:S:60:ILE:H	1.51	0.75
1:A:338:GLN:HB3	1:A:339:PRO:HD3	1.87	0.74
1:A:340:LEU:HG	1:A:353:ALA:H	1.94	0.74
1:A:330:GLN:HB3	1:A:379:ALA:HB3	1.69	0.74
1:B:327:SER:OG	1:B:331:GLY:HA3	1.86	0.74
1:N:481:VAL:HG11	1:N:487:VAL:HG13	1.68	0.74
1:P:1:MET:CE	1:P:47:PRO:HB3	2.17	0.74
1:R:77:ILE:HG13	1:R:79:GLY:CA	2.16	0.74
1:U:381:PRO:CA	1:U:405:THR:HG22	2.16	0.74
1:W:8:ILE:HG22	1:W:40:ASN:ND2	2.00	0.74
1:Y:115:VAL:N	1:Y:118:ASN:HD22	1.82	0.74
1:A:60:ILE:HG12	1:A:92:LEU:O	2.38	0.74
1:I:182:CYS:SG	1:I:208:VAL:HB	2.26	0.74
1:J:120:ALA:HB2	1:J:164:GLN:NE2	2.02	0.74
1:J:45:PHE:HB3	1:J:47:PRO:HD2	1.69	0.74
1:L:204:TYR:O	1:L:206:PRO:HD3	2.27	0.74
1:P:260:VAL:HB	1:P:263:VAL:HA	1.68	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:130:GLU:CB	1:T:136:LYS:HA	2.17	0.74
1:V:328:GLU:HG3	1:V:329:GLN:H	1.52	0.74
1:Z:337:LEU:HD22	1:Z:357:TRP:CZ3	2.18	0.74
1:A:712:MET:HB3	1:Z:704:LYS:HD2	180.06	0.74
1:A:106:GLU:O	1:A:107:LYS:HD2	2.47	0.74
1:C:260:VAL:HA	1:C:264:TYR:H	1.63	0.74
1:E:185:ARG:HG3	1:E:206:PRO:HB3	1.69	0.74
1:G:36:ILE:CD1	1:G:36:ILE:O	2.32	0.74
1:J:338:GLN:CB	1:J:339:PRO:HD3	2.27	0.74
1:K:224:LYS:O	1:K:272:PRO:HD3	2.05	0.74
1:M:529:ILE:HD12	1:M:583:VAL:HG11	1.70	0.74
1:M:14:HIS:HB3	1:M:56:ARG:CB	2.17	0.74
1:P:19:LEU:HA	1:P:32:PRO:HB3	1.69	0.74
1:T:1:MET:HE3	1:T:47:PRO:HB3	1.67	0.74
1:W:328:GLU:HA	1:W:328:GLU:OE1	1.85	0.74
1:W:9:ARG:HH12	1:W:36:ILE:HA	1.52	0.74
1:X:597:ARG:HG3	1:X:600:ARG:HH21	1.51	0.74
1:Y:176:LEU:HB2	1:Y:196:TRP:HB2	1.67	0.74
1:D:132:LYS:HZ2	1:D:152:ILE:CD1	2.76	0.74
1:F:452:ARG:HG3	1:F:452:ARG:NH1	2.38	0.74
1:F:601:MET:CG	1:F:622:ALA:HB2	2.34	0.74
1:J:251:VAL:HA	1:J:254:GLN:HE22	1.52	0.74
1:J:384:GLN:NE2	1:J:384:GLN:H	2.19	0.74
1:K:536:ARG:HB2	1:K:646:VAL:HB	1.67	0.74
1:M:251:VAL:HG23	1:M:254:GLN:NE2	2.40	0.74
1:O:109:ILE:HD12	1:O:153:PRO:HB2	1.68	0.74
1:P:495:PHE:HB3	1:P:514:LEU:HD11	1.70	0.74
1:Q:229:LEU:HD23	1:Q:266:GLU:HA	1.68	0.74
1:T:120:ALA:HB3	1:T:162:ILE:HG13	1.69	0.74
1:W:653:ALA:HB1	1:X:662:ILE:HD12	1.69	0.74
1:C:227:LEU:O	1:C:250:LEU:HA	1.87	0.74
1:E:807:ILE:HD12	1:E:808:ARG:N	2.02	0.74
1:F:8:ILE:HG22	1:F:40:ASN:ND2	2.20	0.74
1:F:415:TRP:CZ3	1:F:417:LYS:HB3	2.23	0.74
1:K:654:LEU:CD1	1:L:662:ILE:CD1	3.49	0.74
1:L:227:LEU:HB3	1:L:251:VAL:HG12	2.29	0.74
1:L:45:PHE:HB3	1:L:47:PRO:HD2	1.69	0.74
1:M:382:LEU:H	1:M:405:THR:HG22	1.75	0.74
1:T:382:LEU:N	1:T:405:THR:HG22	2.03	0.74
1:S:785:GLN:HA	1:T:790:VAL:HG21	1.69	0.74
1:C:759:LEU:HD21	1:D:765:VAL:HG22	2.58	0.74
1:J:1:MET:HE3	1:J:47:PRO:HB3	1.66	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:180:LYS:C	1:K:182:CYS:H	2.31	0.74
1:K:523:PHE:CE1	1:K:568:VAL:HG12	2.48	0.74
1:K:529:ILE:HD13	1:K:583:VAL:HG11	1.68	0.74
1:N:221:LEU:HD12	1:N:253:VAL:HG13	1.66	0.74
1:N:517:LEU:H	1:N:517:LEU:HD12	1.53	0.74
1:R:176:LEU:HD13	1:R:209:PHE:CD1	2.23	0.74
1:R:332:LEU:HD23	1:R:358:LEU:HD11	1.69	0.74
1:A:580:ARG:HH22	1:B:595:SER:HB2	1.51	0.74
1:F:766:ARG:O	1:F:770:LEU:HB2	2.16	0.74
1:G:759:LEU:HD11	1:H:764:LYS:HB3	2.06	0.74
1:H:221:LEU:HD22	1:H:256:THR:HG21	1.68	0.74
1:H:330:GLN:CG	1:H:379:ALA:HB3	2.36	0.74
1:J:154:GLN:HG3	1:J:155:LYS:HZ2	2.10	0.74
1:L:481:VAL:HG11	1:L:487:VAL:HG13	1.73	0.74
1:M:204:TYR:O	1:M:206:PRO:HD3	1.87	0.74
1:N:381:PRO:CA	1:N:405:THR:HG22	2.15	0.74
1:Q:100:TYR:HB3	1:Q:101:PRO:HD2	1.68	0.74
1:S:180:LYS:C	1:S:182:CYS:H	1.87	0.74
1:S:19:LEU:HA	1:S:32:PRO:CB	2.18	0.74
1:S:67:ARG:HH21	1:S:107:LYS:HA	1.51	0.74
1:T:327:SER:HB2	1:T:331:GLY:HA3	1.67	0.74
1:V:273:ILE:HG21	1:V:316:LEU:HD11	1.67	0.74
1:X:785:GLN:HA	1:Y:790:VAL:HG21	1.70	0.74
1:A:174:LEU:HB2	1:A:198:VAL:HB	1.70	0.74
1:B:57:HIS:HB2	1:B:59:CYS:SG	3.01	0.74
1:C:106:GLU:O	1:C:107:LYS:HD2	1.86	0.74
1:D:19:LEU:HD23	1:D:32:PRO:HB2	1.82	0.74
1:D:382:LEU:HB2	1:D:404:SER:O	1.87	0.74
1:E:176:LEU:CD1	1:E:209:PHE:HD1	2.00	0.74
1:E:36:ILE:O	1:E:36:ILE:HD13	1.87	0.74
1:G:113:GLN:HG2	1:G:150:THR:HB	1.68	0.74
1:H:687:ARG:HG2	1:H:691:GLN:HE21	1.71	0.74
1:K:121:LEU:HB2	1:K:145:PHE:HB3	1.67	0.74
1:K:164:GLN:CD	1:K:204:TYR:HB2	2.08	0.74
1:K:227:LEU:HB2	1:K:251:VAL:CG1	2.18	0.74
1:L:109:ILE:HD12	1:L:153:PRO:CG	2.26	0.74
1:T:115:VAL:O	1:T:118:ASN:HB3	1.86	0.74
1:U:284:ILE:HD13	1:U:284:ILE:H	1.52	0.74
1:B:134:GLY:O	1:B:135:ASP:HB2	3.07	0.74
1:D:419:LEU:CG	1:D:420:PRO:HD2	2.09	0.74
1:E:327:SER:HB2	1:E:331:GLY:HA2	3.40	0.74
1:F:182:CYS:SG	1:F:208:VAL:CG2	2.90	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:382:LEU:HB2	1:F:404:SER:O	1.87	0.74
1:G:204:TYR:O	1:G:206:PRO:HD3	1.87	0.74
1:G:526:VAL:HG22	1:G:540:GLN:HG2	1.68	0.74
1:H:794:LYS:O	1:H:798:MET:HG2	1.94	0.74
1:K:184:ASP:HB3	1:K:187:GLY:O	1.87	0.74
1:L:130:GLU:CB	1:L:136:LYS:HA	2.79	0.74
1:N:326:LEU:HD21	1:N:333:LEU:HG	1.69	0.74
1:O:121:LEU:HD12	1:O:145:PHE:HD2	1.53	0.74
1:O:332:LEU:HD21	1:O:407:MET:HB2	1.70	0.74
1:O:459:SER:CB	1:O:488:THR:HG22	2.14	0.74
1:O:655:GLN:O	1:O:658:VAL:HG12	1.88	0.74
1:Q:408:LEU:H	1:Q:408:LEU:HD12	1.53	0.74
1:V:654:LEU:HD12	1:W:662:ILE:HD12	1.68	0.74
1:W:194:GLU:HG2	1:W:195:GLU:H	1.53	0.74
1:C:697:SER:HA	1:D:706:LEU:HD23	1.85	0.74
1:D:185:ARG:HG3	1:D:206:PRO:HB3	1.70	0.74
1:D:221:LEU:HD22	1:D:256:THR:CB	2.17	0.74
1:G:72:SER:HB3	1:G:84:ARG:HH21	1.76	0.74
1:I:394:LYS:HA	1:J:329:GLN:NE2	3.16	0.74
1:J:5:GLU:HG2	1:J:43:VAL:CG2	2.31	0.74
1:L:164:GLN:CD	1:L:204:TYR:HB3	2.08	0.74
1:L:419:LEU:HG	1:L:420:PRO:HD2	1.69	0.74
1:L:564:VAL:HG21	1:L:631:ASN:ND2	2.08	0.74
1:M:601:MET:HG2	1:M:622:ALA:HB2	1.82	0.74
1:S:273:ILE:HG21	1:S:316:LEU:HD11	1.69	0.74
1:Y:384:GLN:H	1:Y:384:GLN:NE2	1.86	0.74
1:A:327:SER:CB	1:A:331:GLY:HA3	2.16	0.73
1:C:165:ALA:CB	1:C:174:LEU:HD11	2.18	0.73
1:F:90:ILE:HD13	1:F:90:ILE:N	2.30	0.73
1:M:14:HIS:CB	1:M:56:ARG:HB2	2.18	0.73
1:M:419:LEU:CG	1:M:420:PRO:HD2	2.05	0.73
1:M:8:ILE:HD13	1:M:8:ILE:H	4.21	0.73
1:O:281:TYR:HE1	1:O:321:GLN:HB2	1.53	0.73
1:U:452:ARG:HH11	1:U:452:ARG:HG3	1.53	0.73
1:V:221:LEU:HD22	1:V:256:THR:CB	2.18	0.73
1:W:130:GLU:HA	1:W:137:VAL:H	1.53	0.73
1:Z:332:LEU:HD21	1:Z:407:MET:HB2	1.68	0.73
1:Z:419:LEU:HG	1:Z:420:PRO:HD2	1.69	0.73
1:A:152:ILE:HD12	1:A:152:ILE:H	1.51	0.73
1:D:381:PRO:CA	1:D:405:THR:HG22	2.12	0.73
1:E:224:LYS:O	1:E:272:PRO:HD3	1.88	0.73
1:I:11:PRO:HA	1:I:38:GLN:HA	1.70	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:45:PHE:HB3	1:I:47:PRO:HD2	1.77	0.73
1:K:115:VAL:HA	1:K:147:GLY:O	2.00	0.73
1:L:70:GLN:HB3	1:L:104:VAL:H	1.53	0.73
1:R:87:ASP:CG	1:R:88:GLN:H	1.91	0.73
1:V:287:PRO:HA	1:V:314:GLU:OE2	1.88	0.73
1:C:199:ARG:NH2	1:C:258:ALA:HB3	2.23	0.73
1:E:120:ALA:HB3	1:E:162:ILE:HG13	1.69	0.73
1:F:319:GLY:C	1:F:320:ILE:HD13	2.09	0.73
1:G:326:LEU:HD21	1:G:333:LEU:HG	1.92	0.73
1:I:649:ARG:HH21	1:J:655:GLN:HG2	1.54	0.73
1:J:70:GLN:HB3	1:J:104:VAL:O	2.12	0.73
1:K:481:VAL:HG11	1:K:487:VAL:CG1	2.18	0.73
1:M:182:CYS:SG	1:M:208:VAL:HB	2.28	0.73
1:M:227:LEU:HB2	1:M:251:VAL:CG1	2.18	0.73
1:Z:338:GLN:HB3	1:Z:339:PRO:HD3	1.69	0.73
1:C:505:PRO:HG2	1:C:507:ARG:HH12	1.52	0.73
1:D:807:ILE:HD12	1:D:808:ARG:N	2.04	0.73
1:F:261:PRO:HD2	1:F:264:TYR:HB2	1.89	0.73
1:G:543:TYR:HE2	1:G:575:ILE:HG21	1.50	0.73
1:H:326:LEU:HD21	1:H:333:LEU:HG	1.76	0.73
1:H:394:LYS:HG2	1:I:329:GLN:CG	2.18	0.73
1:I:387:GLY:HA3	1:I:402:ILE:HG22	2.09	0.73
1:K:382:LEU:H	1:K:405:THR:HG22	1.52	0.73
1:M:5:GLU:OE1	1:M:43:VAL:HG11	1.87	0.73
1:P:229:LEU:HD23	1:P:266:GLU:HA	1.71	0.73
1:P:337:LEU:HD22	1:P:357:TRP:CZ3	2.23	0.73
1:Q:221:LEU:HD13	1:Q:256:THR:HB	1.69	0.73
1:Q:527:ILE:HD13	1:Q:527:ILE:H	1.54	0.73
1:R:164:GLN:CD	1:R:204:TYR:HB3	2.09	0.73
1:R:382:LEU:H	1:R:405:THR:HG22	1.53	0.73
1:S:338:GLN:CB	1:S:339:PRO:HD3	2.15	0.73
1:T:130:GLU:HB2	1:T:136:LYS:HA	1.70	0.73
1:T:564:VAL:CG2	1:T:631:ASN:HD22	2.00	0.73
1:U:24:ASN:HD22	1:U:30:VAL:HB	1.51	0.73
1:U:481:VAL:HG11	1:U:487:VAL:CG1	2.18	0.73
1:U:517:LEU:O	1:U:545:TRP:HH2	1.71	0.73
1:U:799:THR:HG21	1:V:801:ALA:HB1	1.70	0.73
1:A:474:ARG:HG3	1:A:492:GLU:HB2	1.71	0.73
1:J:251:VAL:HG23	1:J:254:GLN:NE2	2.04	0.73
1:K:227:LEU:O	1:K:250:LEU:HA	1.88	0.73
1:K:77:ILE:HG13	1:K:79:GLY:H	1.70	0.73
1:M:217:ASP:HB2	1:M:258:ALA:HA	2.21	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:180:LYS:C	1:N:182:CYS:N	2.41	0.73
1:Q:217:ASP:OD1	1:Q:218:ALA:N	2.22	0.73
1:R:65:VAL:CA	1:R:110:THR:HA	2.19	0.73
1:R:337:LEU:HD22	1:R:357:TRP:CZ3	2.20	0.73
1:T:368:SER:HB3	1:T:371:VAL:HG23	1.70	0.73
1:X:507:ARG:HB2	1:X:510:ALA:HB2	1.68	0.73
1:Y:332:LEU:HD21	1:Y:407:MET:CB	2.18	0.73
1:Z:109:ILE:HD12	1:Z:153:PRO:HB2	1.68	0.73
1:C:54:PRO:HB2	1:C:55:PRO:CD	2.15	0.73
1:D:338:GLN:CB	1:D:339:PRO:HD3	2.18	0.73
1:K:7:ILE:HD13	1:K:41:GLU:OE1	5.15	0.73
1:L:654:LEU:HD13	1:M:662:ILE:HD13	2.58	0.73
1:O:45:PHE:HB3	1:O:47:PRO:HD2	1.70	0.73
1:Q:564:VAL:HG22	1:Q:631:ASN:HD22	1.53	0.73
1:R:14:HIS:HB3	1:R:56:ARG:CB	2.18	0.73
1:R:19:LEU:HA	1:R:32:PRO:HB3	1.69	0.73
1:R:16:ILE:HA	1:R:34:THR:OG1	1.88	0.73
1:R:511:ARG:NH2	1:R:517:LEU:HD11	2.03	0.73
1:X:67:ARG:HH21	1:X:107:LYS:HA	1.53	0.73
1:B:185:ARG:HH22	1:B:207:ALA:HB3	1.53	0.73
1:C:167:VAL:HG13	1:C:202:GLY:H	1.53	0.73
1:C:228:HIS:HB3	1:C:267:VAL:HB	1.70	0.73
1:D:109:ILE:HD12	1:D:153:PRO:HB2	1.71	0.73
1:F:527:ILE:H	1:F:527:ILE:HD13	1.53	0.73
1:G:587:THR:HG23	1:G:590:ASP:CB	2.62	0.73
1:H:332:LEU:HD21	1:H:407:MET:HB2	1.68	0.73
1:I:575:ILE:HD12	1:I:603:VAL:HG13	1.68	0.73
1:M:268:LEU:HD13	1:M:269:GLY:H	1.52	0.73
1:U:408:LEU:H	1:U:408:LEU:HD12	1.53	0.73
1:X:130:GLU:HB2	1:X:136:LYS:HA	1.70	0.73
1:C:14:HIS:CB	1:C:56:ARG:HB2	2.16	0.73
1:C:337:LEU:HD22	1:C:357:TRP:HZ3	1.61	0.73
1:E:121:LEU:HB2	1:E:145:PHE:HB3	1.71	0.73
1:E:338:GLN:CB	1:E:339:PRO:HD3	2.17	0.73
1:G:65:VAL:HA	1:G:110:THR:HG22	2.04	0.73
1:G:5:GLU:HG2	1:G:43:VAL:HG21	2.08	0.73
1:G:73:VAL:N	1:G:84:ARG:HB2	2.32	0.73
1:I:132:LYS:NZ	1:I:152:ILE:CD1	3.27	0.73
1:J:5:GLU:CG	1:J:43:VAL:HG21	2.35	0.73
1:K:729:ARG:HB2	1:K:729:ARG:NH1	2.04	0.73
1:M:338:GLN:HB3	1:M:339:PRO:HD3	1.71	0.73
1:M:45:PHE:HB3	1:M:47:PRO:HD2	1.70	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:220:ILE:C	1:N:222:THR:H	1.92	0.73
1:P:109:ILE:HD12	1:P:153:PRO:HB2	1.69	0.73
1:R:601:MET:CG	1:R:622:ALA:HB2	2.19	0.73
1:S:152:ILE:CD1	1:S:152:ILE:H	2.02	0.73
1:V:417:LYS:O	1:V:418:GLU:HB2	1.87	0.73
1:A:221:LEU:CD2	1:A:256:THR:HG21	2.28	0.73
1:B:794:LYS:O	1:B:798:MET:HG2	1.88	0.73
1:E:109:ILE:HD12	1:E:153:PRO:HG2	1.97	0.73
1:D:476:LYS:CE	1:E:485:GLU:HG3	2.27	0.73
1:F:65:VAL:HA	1:F:110:THR:HG22	1.97	0.73
1:F:311:GLN:HB3	1:F:312:PRO:HD2	2.34	0.73
1:H:381:PRO:CA	1:H:405:THR:HG22	2.21	0.73
1:H:70:GLN:HB3	1:H:104:VAL:H	2.72	0.73
1:J:19:LEU:HA	1:J:32:PRO:HB2	2.03	0.73
1:K:262:ASP:HB3	1:K:264:TYR:CE1	2.35	0.73
1:K:268:LEU:HD13	1:K:269:GLY:H	1.54	0.73
1:L:227:LEU:HD13	1:L:229:LEU:HD21	1.70	0.73
1:P:419:LEU:HG	1:P:420:PRO:CD	2.16	0.73
1:R:8:ILE:HG22	1:R:40:ASN:ND2	2.03	0.73
1:W:330:GLN:HB3	1:W:379:ALA:HB3	1.69	0.73
1:Z:328:GLU:CG	1:Z:329:GLN:H	2.01	0.73
1:A:100:TYR:HB3	1:A:101:PRO:CD	2.34	0.73
1:C:469:GLN:HB3	1:C:496:THR:CG2	2.47	0.73
1:E:115:VAL:H	1:E:118:ASN:ND2	1.86	0.73
1:E:221:LEU:CD2	1:E:256:THR:CG2	3.24	0.73
1:G:472:ASP:HA	1:G:493:GLU:HB3	1.80	0.73
1:H:130:GLU:HB2	1:H:136:LYS:HA	2.06	0.73
1:I:109:ILE:HD12	1:I:153:PRO:HB2	1.69	0.73
1:L:75:PHE:CE2	1:L:77:ILE:HG23	5.72	0.73
1:M:332:LEU:HD23	1:M:358:LEU:HD11	1.69	0.73
1:N:734:ARG:HH21	1:N:735:ILE:HD13	1.53	0.73
1:R:123:LEU:HG	1:R:143:TRP:HB2	1.71	0.73
1:R:165:ALA:HB2	1:R:211:GLU:OE2	1.88	0.73
1:S:766:ARG:HD3	1:T:772:TYR:HB2	1.70	0.73
1:V:227:LEU:HB2	1:V:251:VAL:HG12	1.71	0.73
1:W:8:ILE:HG22	1:W:40:ASN:HD21	1.54	0.73
1:W:73:VAL:N	1:W:84:ARG:HB2	2.04	0.73
1:X:77:ILE:HG13	1:X:80:GLN:H	1.52	0.73
1:B:595:SER:O	1:B:599:ILE:CD1	2.30	0.72
1:E:9:ARG:CZ	1:E:15:TYR:HB3	2.56	0.72
1:F:204:TYR:O	1:F:206:PRO:HD3	1.88	0.72
1:F:543:TYR:CE2	1:F:575:ILE:HG21	2.24	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:419:LEU:HD12	1:G:494:GLN:NE2	2.47	0.72
1:J:327:SER:HB2	1:J:331:GLY:HA3	2.19	0.72
1:J:14:HIS:HB3	1:J:56:ARG:HB2	2.09	0.72
1:I:653:ALA:HB3	1:J:662:ILE:HD13	1.94	0.72
1:K:501:SER:HB3	1:K:507:ARG:O	2.35	0.72
1:K:551:ASN:HB3	1:K:554:ASP:HB3	1.71	0.72
1:L:221:LEU:CD2	1:L:256:THR:HG21	2.19	0.72
1:P:384:GLN:HE21	1:P:384:GLN:H	1.34	0.72
1:V:221:LEU:CD2	1:V:256:THR:HG21	2.19	0.72
1:W:332:LEU:HD21	1:W:407:MET:HB2	1.69	0.72
1:X:340:LEU:HD23	1:X:352:GLN:HA	1.71	0.72
1:B:230:ARG:HG2	1:B:248:GLU:HG2	1.71	0.72
1:C:154:GLN:HG3	1:C:155:LYS:HG3	1.71	0.72
1:E:571:ALA:O	1:E:575:ILE:HG12	3.46	0.72
1:F:8:ILE:HG22	1:F:40:ASN:HD21	1.88	0.72
1:G:28:VAL:HG12	1:G:30:VAL:HG23	1.70	0.72
1:H:227:LEU:HB2	1:H:251:VAL:CG1	2.34	0.72
1:K:215:LEU:HB3	1:K:259:HIS:NE2	2.03	0.72
1:O:176:LEU:HD13	1:O:209:PHE:CD1	2.22	0.72
1:O:337:LEU:HD22	1:O:357:TRP:CZ3	2.24	0.72
1:V:692:LYS:HG2	1:V:696:GLN:HE21	1.54	0.72
1:W:580:ARG:HH22	1:X:595:SER:HB2	1.54	0.72
1:Z:276:LEU:N	1:Z:280:HIS:HB2	2.03	0.72
1:Z:338:GLN:CB	1:Z:339:PRO:HD3	2.19	0.72
1:A:221:LEU:HD22	1:A:256:THR:HB	1.71	0.72
1:C:319:GLY:C	1:C:320:ILE:HD13	2.10	0.72
1:D:481:VAL:HG11	1:D:487:VAL:CG1	2.18	0.72
1:F:11:PRO:HA	1:F:38:GLN:HA	1.69	0.72
1:F:22:ASN:ND2	1:G:39:ASP:HB3	2.14	0.72
1:G:45:PHE:HB3	1:G:47:PRO:HD2	1.82	0.72
1:H:745:LYS:HG3	1:I:753:ILE:HD13	1.69	0.72
1:I:3:THR:HG22	1:I:50:MET:CE	2.19	0.72
1:I:60:ILE:H	1:I:60:ILE:HD12	1.53	0.72
1:I:65:VAL:HG12	1:I:110:THR:HG22	1.69	0.72
1:J:151:TYR:CD2	1:J:152:ILE:HD13	2.77	0.72
1:M:19:LEU:HA	1:M:32:PRO:CB	2.19	0.72
1:M:4:GLU:OE2	1:M:6:ALA:HB2	2.10	0.72
1:N:1:MET:HE1	1:N:47:PRO:HB3	1.70	0.72
1:O:785:GLN:HA	1:P:790:VAL:HG21	1.69	0.72
1:P:14:HIS:HB2	1:P:56:ARG:HB2	1.70	0.72
1:R:1:MET:HE1	1:R:47:PRO:HB3	1.71	0.72
1:S:115:VAL:N	1:S:118:ASN:HD22	1.86	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:601:MET:HG2	1:S:622:ALA:HB2	1.71	0.72
1:U:1:MET:HE3	1:U:47:PRO:HB3	1.69	0.72
1:V:221:LEU:HD22	1:V:256:THR:HB	1.71	0.72
1:V:260:VAL:HB	1:V:263:VAL:HA	1.71	0.72
1:X:106:GLU:O	1:X:107:LYS:HD2	1.89	0.72
1:Y:167:VAL:HG22	1:Y:201:VAL:HA	1.69	0.72
1:B:220:ILE:HD12	1:B:252:THR:HA	3.60	0.72
1:D:495:PHE:HB3	1:D:514:LEU:HD11	1.71	0.72
1:E:30:VAL:HG22	1:E:74:LEU:HG	1.71	0.72
1:F:459:SER:CB	1:F:488:THR:HG22	2.20	0.72
1:J:109:ILE:HD12	1:J:153:PRO:CB	2.19	0.72
1:K:239:ARG:HH21	1:K:257:GLU:HG2	2.15	0.72
1:K:767:GLU:O	1:K:771:ILE:HD13	1.89	0.72
1:K:653:ALA:HB1	1:L:662:ILE:HD12	1.67	0.72
1:M:9:ARG:NH1	1:M:36:ILE:HA	2.03	0.72
1:N:337:LEU:HG	1:N:353:ALA:O	1.90	0.72
1:P:252:THR:HG23	1:P:252:THR:O	1.88	0.72
1:P:28:VAL:HG12	1:P:30:VAL:HG23	1.69	0.72
1:R:196:TRP:HA	1:R:196:TRP:CE3	2.24	0.72
1:U:690:ARG:NH2	1:V:698:GLU:HG3	2.04	0.72
1:W:522:PHE:C	1:W:522:PHE:HD2	1.93	0.72
1:X:183:PHE:HE2	1:X:188:LYS:HA	1.54	0.72
1:A:221:LEU:HD21	1:A:256:THR:CG2	2.19	0.72
1:A:485:GLU:HG2	1:A:486:LEU:H	1.73	0.72
1:B:175:ARG:HE	1:B:263:VAL:HG22	1.55	0.72
1:C:1:MET:HE1	1:C:47:PRO:HB3	1.71	0.72
1:C:230:ARG:HB2	1:C:265:GLU:HB3	1.71	0.72
1:C:419:LEU:HD12	1:C:494:GLN:NE2	2.03	0.72
1:D:115:VAL:H	1:D:118:ASN:HD22	1.60	0.72
1:D:154:GLN:HG3	1:D:155:LYS:HG3	1.69	0.72
1:D:77:ILE:CG1	1:D:80:GLN:O	2.32	0.72
1:E:28:VAL:HG12	1:E:30:VAL:HG23	1.79	0.72
1:E:469:GLN:HB3	1:E:496:THR:HG21	1.74	0.72
1:G:579:VAL:HG13	1:G:599:ILE:CD1	2.71	0.72
1:L:419:LEU:HD23	1:L:421:SER:H	1.53	0.72
1:M:182:CYS:O	1:M:190:ARG:HB2	1.96	0.72
1:M:28:VAL:HG12	1:M:30:VAL:HG23	1.71	0.72
1:P:14:HIS:CB	1:P:56:ARG:HB2	2.19	0.72
1:P:45:PHE:HB3	1:P:47:PRO:HD2	1.72	0.72
1:Q:184:ASP:HB3	1:Q:187:GLY:O	1.90	0.72
1:Q:36:ILE:HG21	1:Q:99:LEU:HD13	1.72	0.72
1:T:796:LYS:HA	1:T:799:THR:HG22	1.71	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:116:LEU:HB3	1:W:117:PRO:CD	2.20	0.72
1:X:228:HIS:NE2	1:X:312:PRO:HB3	2.04	0.72
1:A:19:LEU:HD23	1:A:32:PRO:HB2	1.89	0.72
1:B:472:ASP:HA	1:B:493:GLU:HB3	1.72	0.72
1:F:109:ILE:CD1	1:F:153:PRO:HG2	2.87	0.72
1:F:419:LEU:HD23	1:F:421:SER:H	1.55	0.72
1:H:380:ILE:HD12	1:H:380:ILE:H	2.09	0.72
1:I:116:LEU:CB	1:I:117:PRO:HD2	2.20	0.72
1:J:654:LEU:HD12	1:K:662:ILE:HG21	3.13	0.72
1:L:109:ILE:CD1	1:L:153:PRO:CG	2.67	0.72
1:L:14:HIS:HB3	1:L:56:ARG:CG	2.20	0.72
1:N:85:HIS:NE2	1:N:102:GLY:HA3	2.04	0.72
1:T:337:LEU:HD22	1:T:357:TRP:HZ3	1.55	0.72
1:Y:523:PHE:CE1	1:Y:568:VAL:HG12	2.24	0.72
1:Z:419:LEU:HD22	1:Z:422:GLY:H	1.54	0.72
1:B:236:ARG:NH1	1:B:236:ARG:HB3	2.04	0.72
1:C:67:ARG:HH21	1:C:107:LYS:HA	1.82	0.72
1:C:109:ILE:CD1	1:C:153:PRO:HG2	2.20	0.72
1:C:221:LEU:HD22	1:C:256:THR:HG21	1.92	0.72
1:D:109:ILE:CD1	1:D:153:PRO:HG2	2.69	0.72
1:G:771:ILE:HD13	1:G:774:ARG:HH11	1.54	0.72
1:H:543:TYR:CE2	1:H:575:ILE:HG21	2.25	0.72
1:I:115:VAL:O	1:I:118:ASN:HB3	2.24	0.72
1:J:130:GLU:CB	1:J:136:LYS:HA	2.19	0.72
1:J:28:VAL:HG12	1:J:30:VAL:HG23	1.78	0.72
1:K:171:ASN:O	1:K:216:VAL:HA	1.90	0.72
1:K:273:ILE:CD1	1:K:316:LEU:HD21	2.19	0.72
1:K:387:GLY:HA3	1:K:402:ILE:HG22	1.70	0.72
1:L:273:ILE:HG21	1:L:316:LEU:HD11	1.72	0.72
1:K:654:LEU:HD11	1:L:662:ILE:HD13	3.19	0.72
1:L:4:GLU:OE2	1:L:6:ALA:HB2	1.99	0.72
1:Q:100:TYR:HB3	1:Q:101:PRO:CD	2.20	0.72
1:Q:338:GLN:CB	1:Q:339:PRO:HD3	2.19	0.72
1:R:224:LYS:HA	1:R:272:PRO:HG3	1.70	0.72
1:W:184:ASP:HB2	1:W:189:GLY:O	1.89	0.72
1:W:1:MET:HE3	1:W:47:PRO:HB3	1.70	0.72
1:A:166:THR:HA	1:A:202:GLY:HA2	2.34	0.72
1:D:268:LEU:HD13	1:D:269:GLY:H	1.97	0.72
1:D:337:LEU:HD22	1:D:357:TRP:CZ3	2.53	0.72
1:F:164:GLN:CD	1:F:204:TYR:HB3	3.39	0.72
1:F:230:ARG:HH11	1:F:230:ARG:HB3	1.61	0.72
1:G:273:ILE:HG21	1:G:316:LEU:HD11	1.84	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:273:ILE:HG21	1:H:316:LEU:HD11	1.87	0.72
1:I:327:SER:CB	1:I:331:GLY:HA3	2.18	0.72
1:K:221:LEU:CD2	1:K:256:THR:HG21	2.20	0.72
1:N:408:LEU:HD21	1:N:414:LEU:CD1	2.19	0.72
1:N:511:ARG:HH22	1:N:517:LEU:HD11	1.55	0.72
1:O:260:VAL:HA	1:O:264:TYR:H	1.54	0.72
1:P:109:ILE:HD12	1:P:153:PRO:CB	2.19	0.72
1:R:654:LEU:HD13	1:S:662:ILE:HD13	1.69	0.72
1:U:327:SER:HB2	1:U:331:GLY:CA	2.19	0.72
1:U:796:LYS:HA	1:U:799:THR:HG22	1.71	0.72
1:V:571:ALA:O	1:V:575:ILE:HG12	1.88	0.72
1:W:785:GLN:HA	1:X:790:VAL:HG21	1.71	0.72
1:A:175:ARG:HG3	1:A:215:LEU:HD23	1.72	0.72
1:B:199:ARG:HH21	1:B:258:ALA:HB3	1.55	0.72
1:B:380:ILE:HD12	1:B:406:TYR:O	1.89	0.72
1:J:384:GLN:H	1:J:384:GLN:HE21	1.93	0.72
1:L:36:ILE:O	1:L:36:ILE:HD13	1.97	0.72
1:M:221:LEU:HD21	1:M:256:THR:CG2	2.94	0.72
1:R:67:ARG:HG2	1:R:108:ASP:HB3	1.70	0.72
1:T:19:LEU:HA	1:T:32:PRO:HB3	1.71	0.72
1:T:527:ILE:H	1:T:527:ILE:HD13	1.55	0.72
1:V:9:ARG:HH12	1:V:36:ILE:HA	1.55	0.72
1:W:221:LEU:CD2	1:W:256:THR:HB	2.18	0.72
1:W:539:LEU:HD22	1:W:643:VAL:HG22	1.72	0.72
1:A:601:MET:HG2	1:A:622:ALA:HB2	1.69	0.72
1:B:130:GLU:H	1:B:137:VAL:HG22	1.55	0.72
1:E:120:ALA:O	1:E:161:GLU:HA	2.05	0.72
1:E:332:LEU:HD21	1:E:407:MET:HB3	1.87	0.72
1:F:185:ARG:HH22	1:F:207:ALA:HB3	2.11	0.72
1:G:523:PHE:CE1	1:G:568:VAL:HG12	2.25	0.72
1:H:191:VAL:HG12	1:H:194:GLU:HB2	1.69	0.72
1:H:359:ILE:H	1:H:359:ILE:HD13	1.94	0.72
1:H:67:ARG:HH21	1:H:107:LYS:HA	1.58	0.72
1:G:785:GLN:HA	1:H:790:VAL:HG21	1.77	0.72
1:M:331:GLY:O	1:M:360:ARG:HB2	1.89	0.72
1:P:523:PHE:CE1	1:P:568:VAL:HG12	2.25	0.72
1:O:654:LEU:HD12	1:P:662:ILE:HD12	1.72	0.72
1:Q:527:ILE:HD11	1:Q:539:LEU:HB2	1.72	0.72
1:R:115:VAL:H	1:R:118:ASN:ND2	1.87	0.72
1:T:70:GLN:HB3	1:T:104:VAL:H	1.53	0.72
1:X:121:LEU:HB2	1:X:145:PHE:HB3	1.72	0.72
1:A:394:LYS:HA	1:B:329:GLN:NE2	2.05	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:217:ASP:HB2	1:B:258:ALA:HA	1.84	0.71
1:B:328:GLU:HG2	1:B:329:GLN:H	1.51	0.71
1:C:328:GLU:CA	1:C:328:GLU:OE1	2.33	0.71
1:C:380:ILE:HD12	1:C:406:TYR:O	2.13	0.71
1:C:527:ILE:HD13	1:C:529:ILE:CG2	2.20	0.71
1:D:5:GLU:HG2	1:D:43:VAL:HG21	1.76	0.71
1:F:332:LEU:HD21	1:F:407:MET:HB3	1.80	0.71
1:H:19:LEU:HA	1:H:32:PRO:HB3	1.71	0.71
1:J:130:GLU:N	1:J:137:VAL:HG13	2.17	0.71
1:J:221:LEU:HD22	1:J:256:THR:CB	2.21	0.71
1:L:16:ILE:HA	1:L:34:THR:OG1	2.03	0.71
1:O:328:GLU:HA	1:O:328:GLU:OE2	1.88	0.71
1:O:752:ALA:CA	1:O:755:THR:HG22	2.15	0.71
1:Q:452:ARG:HH11	1:Q:452:ARG:HG3	1.55	0.71
1:Q:533:ASP:OD1	1:Q:587:THR:HA	1.90	0.71
1:S:354:GLY:HA3	1:T:328:GLU:HG3	1.70	0.71
1:U:121:LEU:HB2	1:U:145:PHE:HB3	1.72	0.71
1:U:221:LEU:CD2	1:U:256:THR:HG21	2.20	0.71
1:A:4:GLU:OE2	1:A:6:ALA:HB2	1.91	0.71
1:B:252:THR:O	1:B:254:GLN:N	2.72	0.71
1:E:327:SER:HB2	1:E:331:GLY:HA3	2.66	0.71
1:E:337:LEU:HD22	1:E:357:TRP:HZ3	1.56	0.71
1:G:330:GLN:HB3	1:G:379:ALA:HB3	1.73	0.71
1:G:511:ARG:HH22	1:G:517:LEU:HD11	1.54	0.71
1:H:125:ALA:HB1	1:H:128:ASP:HB3	2.09	0.71
1:H:128:ASP:OD1	1:H:131:ASP:HB3	2.18	0.71
1:H:196:TRP:HA	1:H:196:TRP:CE3	2.24	0.71
1:I:490:ASP:CG	1:I:491:PRO:HD2	2.23	0.71
1:L:167:VAL:HG22	1:L:201:VAL:HA	1.71	0.71
1:L:24:ASN:ND2	1:L:30:VAL:HB	2.05	0.71
1:L:14:HIS:CB	1:L:56:ARG:HB2	2.20	0.71
1:M:115:VAL:H	1:M:118:ASN:HD22	1.45	0.71
1:M:283:VAL:HG22	1:M:301:VAL:HG12	1.72	0.71
1:O:495:PHE:HB3	1:O:514:LEU:HD11	1.70	0.71
1:O:654:LEU:HD13	1:P:662:ILE:HD13	1.72	0.71
1:P:185:ARG:NH2	1:P:207:ALA:HB3	2.04	0.71
1:P:176:LEU:HD13	1:P:209:PHE:HD1	1.53	0.71
1:Q:245:THR:HG22	1:R:219:VAL:HG13	1.73	0.71
1:S:332:LEU:HB2	1:S:377:ARG:HB3	1.70	0.71
1:T:221:LEU:HD21	1:T:256:THR:HG21	1.70	0.71
1:V:338:GLN:CB	1:V:339:PRO:HD3	2.19	0.71
1:W:384:GLN:NE2	1:W:384:GLN:H	1.88	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:381:PRO:CA	1:Z:405:THR:HG22	2.20	0.71
1:B:19:LEU:HA	1:B:32:PRO:HB3	1.73	0.71
1:B:762:VAL:O	1:B:766:ARG:HB2	1.89	0.71
1:C:191:VAL:HG12	1:C:194:GLU:HB2	1.71	0.71
1:G:14:HIS:HB3	1:G:56:ARG:CB	2.21	0.71
1:H:337:LEU:HD22	1:H:357:TRP:CZ3	2.24	0.71
1:I:587:THR:HG23	1:I:590:ASP:CB	2.26	0.71
1:J:481:VAL:HG11	1:J:487:VAL:HG13	1.96	0.71
1:K:205:LEU:HD22	1:K:211:GLU:HB2	1.71	0.71
1:L:109:ILE:HD12	1:L:153:PRO:HG2	1.97	0.71
1:M:123:LEU:HD11	1:M:143:TRP:HD1	1.55	0.71
1:O:9:ARG:NH1	1:O:36:ILE:HA	2.03	0.71
1:Q:332:LEU:HB2	1:Q:377:ARG:HB3	1.72	0.71
1:R:273:ILE:HG21	1:R:316:LEU:HD11	1.72	0.71
1:R:5:GLU:CG	1:R:43:VAL:HG21	2.19	0.71
1:S:459:SER:CB	1:S:488:THR:HG22	2.17	0.71
1:U:281:TYR:HE1	1:U:321:GLN:HB2	1.54	0.71
1:W:10:ILE:HG22	1:W:12:PRO:HD2	1.72	0.71
1:X:14:HIS:CB	1:X:56:ARG:HB2	2.19	0.71
1:Y:469:GLN:HB3	1:Y:496:THR:HG21	1.72	0.71
1:Y:481:VAL:HG11	1:Y:487:VAL:HG13	1.72	0.71
1:A:551:ASN:HB2	1:A:557:GLU:OE2	1.91	0.71
1:A:73:VAL:N	1:A:84:ARG:HB2	2.05	0.71
1:C:227:LEU:HB2	1:C:251:VAL:CG1	2.20	0.71
1:H:260:VAL:HA	1:H:264:TYR:H	1.62	0.71
1:H:338:GLN:HB2	1:H:339:PRO:HD3	1.71	0.71
1:J:4:GLU:OE2	1:J:6:ALA:HB2	1.94	0.71
1:L:338:GLN:CB	1:L:339:PRO:HD3	2.27	0.71
1:L:495:PHE:HB3	1:L:514:LEU:HD11	1.73	0.71
1:M:182:CYS:SG	1:M:208:VAL:HG21	2.30	0.71
1:M:384:GLN:HE21	1:M:384:GLN:H	1.39	0.71
1:N:154:GLN:HG3	1:N:155:LYS:HG3	1.70	0.71
1:P:377:ARG:NH1	1:P:408:LEU:O	2.22	0.71
1:S:543:TYR:CE2	1:S:575:ILE:HG21	2.25	0.71
1:U:227:LEU:O	1:U:250:LEU:HA	1.89	0.71
1:V:452:ARG:HH22	1:V:458:VAL:HG22	1.56	0.71
1:W:601:MET:HG3	1:W:622:ALA:HB2	1.73	0.71
1:B:204:TYR:O	1:B:206:PRO:HD3	2.09	0.71
1:C:176:LEU:HB2	1:C:196:TRP:HB2	1.73	0.71
1:D:230:ARG:HB3	1:D:230:ARG:HH11	1.75	0.71
1:E:115:VAL:HA	1:E:147:GLY:O	2.52	0.71
1:E:781:VAL:HG21	1:F:786:GLN:OE1	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:14:HIS:NE2	1:J:16:ILE:HD11	2.33	0.71
1:J:1:MET:HE1	1:J:47:PRO:HB3	1.82	0.71
1:L:205:LEU:HD22	1:L:211:GLU:HB2	1.72	0.71
1:M:338:GLN:CB	1:M:339:PRO:HD3	2.51	0.71
1:L:653:ALA:HB1	1:M:662:ILE:HD12	1.72	0.71
1:L:697:SER:HB3	1:M:706:LEU:HB2	1.71	0.71
1:T:227:LEU:HB2	1:T:251:VAL:HG12	1.72	0.71
1:T:273:ILE:HD11	1:T:308:PHE:HD2	1.55	0.71
1:U:338:GLN:CB	1:U:339:PRO:HD3	2.20	0.71
1:W:337:LEU:HD22	1:W:357:TRP:CZ3	2.25	0.71
1:B:802:LEU:HD12	1:B:806:THR:HG22	1.72	0.71
1:C:123:LEU:HG	1:C:143:TRP:HB2	1.71	0.71
1:D:206:PRO:HB2	1:D:209:PHE:CD2	2.26	0.71
1:D:328:GLU:HG3	1:D:329:GLN:H	4.44	0.71
1:H:419:LEU:HD23	1:H:421:SER:H	1.72	0.71
1:J:601:MET:HG2	1:J:622:ALA:HB2	1.70	0.71
1:K:154:GLN:HG3	1:K:155:LYS:CE	2.21	0.71
1:V:84:ARG:HH22	1:V:101:PRO:HD2	1.55	0.71
1:V:1:MET:HE3	1:V:47:PRO:HB3	1.73	0.71
1:A:382:LEU:HD13	1:A:387:GLY:HA2	1.73	0.71
1:A:623:ARG:HG3	1:A:624:ASP:H	2.17	0.71
1:B:389:TYR:CE1	1:B:457:VAL:HA	2.24	0.71
1:C:796:LYS:HA	1:C:799:THR:HG22	1.72	0.71
1:D:36:ILE:HD13	1:D:36:ILE:O	1.89	0.71
1:E:113:GLN:HG2	1:E:150:THR:HB	1.72	0.71
1:E:109:ILE:HD12	1:E:153:PRO:CG	2.34	0.71
1:E:19:LEU:HA	1:E:32:PRO:CB	2.20	0.71
1:I:67:ARG:HH21	1:I:107:LYS:HA	1.55	0.71
1:J:328:GLU:HA	1:J:328:GLU:OE1	4.93	0.71
1:J:19:LEU:HA	1:J:32:PRO:CB	2.31	0.71
1:J:398:VAL:N	1:K:384:GLN:OE1	2.22	0.71
1:L:332:LEU:HB2	1:L:377:ARG:HB3	1.71	0.71
1:L:408:LEU:HD21	1:L:414:LEU:HD12	1.71	0.71
1:L:5:GLU:HG2	1:L:43:VAL:CG2	2.20	0.71
1:Q:332:LEU:HD23	1:Q:358:LEU:HD11	1.73	0.71
1:Q:9:ARG:NH1	1:Q:36:ILE:HA	2.03	0.71
1:V:654:LEU:HD12	1:W:662:ILE:CD1	2.21	0.71
1:U:653:ALA:HB3	1:V:662:ILE:CD1	2.21	0.71
1:W:260:VAL:HA	1:W:264:TYR:H	1.55	0.71
1:W:387:GLY:HA3	1:W:402:ILE:HG22	1.70	0.71
1:X:327:SER:CB	1:X:331:GLY:HA3	2.18	0.71
1:B:184:ASP:HB2	1:B:189:GLY:O	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:239:ARG:NH2	1:B:257:GLU:HG2	2.05	0.71
1:B:395:THR:HG21	1:B:397:LYS:HE2	2.60	0.71
1:E:597:ARG:HG3	1:E:600:ARG:HH21	1.67	0.71
1:H:180:LYS:HD2	1:H:208:VAL:HG12	2.10	0.71
1:M:130:GLU:HB2	1:M:136:LYS:HA	1.77	0.71
1:O:415:TRP:CZ3	1:O:417:LYS:HB3	2.26	0.71
1:Q:106:GLU:O	1:Q:107:LYS:HD2	1.91	0.71
1:R:539:LEU:HD22	1:R:643:VAL:HG22	1.72	0.71
1:S:171:ASN:O	1:S:216:VAL:HA	1.89	0.71
1:T:419:LEU:HG	1:T:420:PRO:HD2	1.73	0.71
1:U:474:ARG:HG3	1:U:492:GLU:HB2	1.73	0.71
1:X:11:PRO:HA	1:X:38:GLN:HA	1.72	0.71
1:A:227:LEU:O	1:A:250:LEU:HA	2.12	0.71
1:D:100:TYR:HB3	1:D:101:PRO:HD2	2.03	0.71
1:K:579:VAL:HG13	1:K:599:ILE:HD12	1.73	0.71
1:N:45:PHE:HB3	1:N:47:PRO:HD2	1.73	0.71
1:N:474:ARG:CG	1:N:492:GLU:HB2	2.14	0.71
1:Q:587:THR:HG23	1:Q:590:ASP:HB3	1.73	0.71
1:R:67:ARG:CD	1:R:108:ASP:HB3	2.20	0.71
1:R:327:SER:HB2	1:R:331:GLY:CA	2.21	0.71
1:S:28:VAL:HG12	1:S:30:VAL:HG23	1.73	0.71
1:S:5:GLU:HG2	1:S:43:VAL:HG21	1.72	0.71
1:U:273:ILE:CD1	1:U:316:LEU:HD21	2.20	0.71
1:D:36:ILE:HD12	1:D:37:ARG:N	4.60	0.71
1:C:654:LEU:HD12	1:D:662:ILE:CD1	2.20	0.71
1:D:807:ILE:HD12	1:D:808:ARG:H	1.54	0.71
1:E:165:ALA:HB1	1:E:174:LEU:HD11	1.73	0.71
1:E:472:ASP:HA	1:E:493:GLU:HB3	1.76	0.71
1:F:359:ILE:HD13	1:F:359:ILE:N	2.06	0.71
1:E:727:GLU:HG3	1:F:735:ILE:HD13	1.73	0.71
1:G:1:MET:HE1	1:G:47:PRO:HB3	1.93	0.71
1:K:234:ASN:N	1:K:234:ASN:HD22	1.88	0.71
1:L:566:ASP:OD2	1:L:569:GLY:HA3	2.31	0.71
1:M:543:TYR:HE2	1:M:575:ILE:HG21	1.55	0.71
1:N:151:TYR:HD2	1:N:152:ILE:CD1	2.02	0.71
1:P:220:ILE:HD13	1:P:251:VAL:HG13	1.73	0.71
1:T:239:ARG:NH2	1:T:257:GLU:HG2	2.05	0.71
1:T:77:ILE:HG13	1:T:79:GLY:H	1.55	0.71
1:Y:571:ALA:O	1:Y:575:ILE:HG12	1.91	0.71
1:Z:332:LEU:HB2	1:Z:377:ARG:HB3	1.73	0.71
1:A:167:VAL:HG22	1:A:201:VAL:HA	2.19	0.70
1:A:692:LYS:HG2	1:A:696:GLN:HE21	1.55	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:221:LEU:HD21	1:C:256:THR:HG21	1.69	0.70
1:D:529:ILE:C	1:D:529:ILE:HD12	2.72	0.70
1:E:206:PRO:HB2	1:E:209:PHE:CD2	2.26	0.70
1:H:399:ARG:HA	1:H:491:PRO:HG3	1.73	0.70
1:I:109:ILE:CD1	1:I:153:PRO:HB2	2.20	0.70
1:J:152:ILE:H	1:J:152:ILE:CD1	2.63	0.70
1:N:268:LEU:HD13	1:N:269:GLY:H	1.55	0.70
1:N:73:VAL:H	1:N:84:ARG:HB2	1.56	0.70
1:O:229:LEU:HD23	1:O:266:GLU:HA	1.71	0.70
1:Q:130:GLU:H	1:Q:137:VAL:HG13	1.54	0.70
1:Q:268:LEU:HD13	1:Q:269:GLY:H	1.55	0.70
1:Q:564:VAL:HG22	1:Q:631:ASN:ND2	2.06	0.70
1:S:154:GLN:HG3	1:S:155:LYS:HZ2	1.56	0.70
1:S:481:VAL:O	1:S:481:VAL:HG13	1.91	0.70
1:U:28:VAL:HG12	1:U:30:VAL:HG23	1.70	0.70
1:V:130:GLU:H	1:V:137:VAL:CG1	2.04	0.70
1:Y:61:VAL:HG13	1:Y:65:VAL:HG23	1.71	0.70
1:Z:58:TYR:HD1	1:Z:99:LEU:HD12	1.55	0.70
1:A:227:LEU:HB2	1:A:251:VAL:HG12	1.72	0.70
1:D:54:PRO:HB2	1:D:55:PRO:CD	2.19	0.70
1:G:284:ILE:H	1:G:284:ILE:HD13	1.59	0.70
1:I:19:LEU:HA	1:I:32:PRO:CB	2.24	0.70
1:L:224:LYS:HA	1:L:272:PRO:HG3	1.76	0.70
1:P:337:LEU:HG	1:P:353:ALA:O	1.91	0.70
1:P:574:ALA:O	1:P:578:ARG:HG3	1.91	0.70
1:A:383:ASP:HB2	1:A:386:GLU:HG2	1.70	0.70
1:A:61:VAL:HG13	1:A:65:VAL:HG23	1.73	0.70
1:B:653:ALA:HB3	1:C:662:ILE:CD1	2.20	0.70
1:C:109:ILE:HD12	1:C:153:PRO:CB	2.21	0.70
1:C:337:LEU:HG	1:C:354:GLY:H	1.56	0.70
1:G:129:PHE:O	1:G:137:VAL:HB	1.91	0.70
1:H:579:VAL:HG13	1:H:599:ILE:CD1	3.04	0.70
1:G:807:ILE:HD13	1:H:806:THR:HG21	1.74	0.70
1:J:221:LEU:HD21	1:J:256:THR:CG2	2.34	0.70
1:K:234:ASN:ND2	1:K:245:THR:H	2.27	0.70
1:K:328:GLU:HG2	1:K:329:GLN:N	2.05	0.70
1:K:785:GLN:HA	1:L:790:VAL:HG21	1.73	0.70
1:K:649:ARG:HH21	1:L:655:GLN:HG2	1.99	0.70
1:O:180:LYS:C	1:O:182:CYS:N	2.44	0.70
1:O:183:PHE:HA	1:O:190:ARG:HD3	1.72	0.70
1:O:511:ARG:HH22	1:O:517:LEU:HD11	1.57	0.70
1:T:228:HIS:HB3	1:T:267:VAL:HB	1.74	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:527:ILE:CD1	1:T:539:LEU:HB2	2.20	0.70
1:W:332:LEU:HD21	1:W:407:MET:CB	2.20	0.70
1:Y:113:GLN:CG	1:Y:150:THR:HB	2.14	0.70
1:B:19:LEU:HA	1:B:32:PRO:CB	2.28	0.70
1:G:338:GLN:HB2	1:G:339:PRO:CD	2.18	0.70
1:K:5:GLU:HG2	1:K:43:VAL:CG2	2.46	0.70
1:M:180:LYS:C	1:M:182:CYS:N	2.42	0.70
1:O:474:ARG:CG	1:O:492:GLU:HB2	2.22	0.70
1:P:384:GLN:H	1:P:384:GLN:NE2	1.89	0.70
1:Q:171:ASN:O	1:Q:216:VAL:HA	1.90	0.70
1:Q:580:ARG:HH22	1:R:595:SER:HB2	1.57	0.70
1:U:623:ARG:CG	1:U:624:ASP:H	2.04	0.70
1:X:182:CYS:SG	1:X:208:VAL:HG21	2.32	0.70
1:B:60:ILE:HD12	1:B:60:ILE:H	1.55	0.70
1:D:205:LEU:HD22	1:D:211:GLU:HB2	2.18	0.70
1:D:227:LEU:HB2	1:D:251:VAL:CG1	2.22	0.70
1:F:511:ARG:HH22	1:F:517:LEU:HD11	1.82	0.70
1:G:70:GLN:HB3	1:G:104:VAL:H	1.55	0.70
1:H:692:LYS:HG2	1:H:696:GLN:HE21	1.56	0.70
1:I:174:LEU:HB2	1:I:198:VAL:HB	1.73	0.70
1:I:221:LEU:CD2	1:I:256:THR:HG21	2.59	0.70
1:I:73:VAL:N	1:I:84:ARG:HB2	2.07	0.70
1:J:288:MET:HE2	1:J:294:ASN:HD22	1.57	0.70
1:K:251:VAL:HG23	1:K:254:GLN:NE2	2.14	0.70
1:K:511:ARG:HH22	1:K:517:LEU:HD11	1.54	0.70
1:K:65:VAL:HA	1:K:110:THR:HB	1.73	0.70
1:L:30:VAL:HG22	1:L:74:LEU:HD11	2.22	0.70
1:M:36:ILE:HD13	1:M:36:ILE:O	1.90	0.70
1:N:36:ILE:O	1:N:37:ARG:HG3	1.90	0.70
1:O:762:VAL:O	1:O:766:ARG:HB2	1.92	0.70
1:P:190:ARG:O	1:P:191:VAL:HG23	1.91	0.70
1:S:106:GLU:O	1:S:107:LYS:HD2	1.92	0.70
1:S:287:PRO:HA	1:S:314:GLU:OE2	1.90	0.70
1:S:481:VAL:HG11	1:S:487:VAL:HG13	1.74	0.70
1:V:332:LEU:HB2	1:V:377:ARG:HB3	1.72	0.70
1:V:18:VAL:CG1	1:V:48:VAL:HG22	2.18	0.70
1:X:109:ILE:HD12	1:X:153:PRO:HG2	1.73	0.70
1:X:601:MET:HG3	1:X:622:ALA:HB2	1.74	0.70
1:A:49:ARG:HH22	1:B:8:ILE:CD1	3.37	0.70
1:B:284:ILE:HD11	1:B:300:ARG:HB3	2.89	0.70
1:I:759:LEU:HD11	1:J:764:LYS:HB3	2.42	0.70
1:M:469:GLN:HB3	1:M:496:THR:HG21	1.81	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:1:MET:HE1	1:P:47:PRO:HB3	1.74	0.70
1:P:69:THR:HA	1:P:106:GLU:HB3	1.72	0.70
1:R:252:THR:O	1:R:254:GLN:N	2.23	0.70
1:V:474:ARG:HG3	1:V:492:GLU:HB2	1.73	0.70
1:W:1:MET:HE1	1:W:47:PRO:HB3	1.73	0.70
1:Y:4:GLU:OE2	1:Y:6:ALA:HB2	1.92	0.70
1:A:217:ASP:HB2	1:A:258:ALA:HA	1.93	0.70
1:B:1:MET:HE1	1:B:47:PRO:HB3	1.73	0.70
1:C:19:LEU:HA	1:C:32:PRO:CB	2.22	0.70
1:C:476:LYS:HE2	1:D:485:GLU:HG3	2.28	0.70
1:E:109:ILE:CD1	1:E:153:PRO:HG2	2.45	0.70
1:E:390:VAL:HG12	1:E:408:LEU:HD23	1.74	0.70
1:E:73:VAL:N	1:E:84:ARG:HB2	3.56	0.70
1:H:260:VAL:HB	1:H:263:VAL:HA	1.72	0.70
1:J:551:ASN:HB3	1:J:554:ASP:HB3	1.74	0.70
1:K:273:ILE:HD12	1:K:316:LEU:HD21	1.72	0.70
1:L:340:LEU:HG	1:L:353:ALA:HB2	2.39	0.70
1:M:606:PHE:HA	1:M:622:ALA:HA	1.74	0.70
1:O:336:ALA:HA	1:O:356:CYS:HB3	1.72	0.70
1:S:92:LEU:HB2	1:S:94:GLN:HG2	1.74	0.70
1:T:204:TYR:O	1:T:206:PRO:HD3	1.91	0.70
1:T:685:ARG:O	1:T:689:GLU:HB2	1.92	0.70
1:V:542:ALA:HB3	1:V:639:ASP:HB2	1.73	0.70
1:W:115:VAL:N	1:W:118:ASN:HD22	1.84	0.70
1:X:130:GLU:N	1:X:137:VAL:HG13	2.07	0.70
1:Z:166:THR:HA	1:Z:202:GLY:HA2	1.74	0.70
1:C:10:ILE:HD12	1:C:10:ILE:H	1.73	0.70
1:G:164:GLN:NE2	1:G:204:TYR:HB2	2.07	0.70
1:H:221:LEU:HD22	1:H:256:THR:CG2	2.22	0.70
1:H:359:ILE:HD13	1:H:359:ILE:N	2.63	0.70
1:H:54:PRO:HB2	1:H:55:PRO:CD	2.31	0.70
1:I:517:LEU:HD12	1:I:517:LEU:H	2.03	0.70
1:J:176:LEU:HB2	1:J:196:TRP:HB2	1.74	0.70
1:K:275:THR:O	1:K:305:GLU:HA	1.92	0.70
1:L:56:ARG:HD2	1:L:99:LEU:CD2	2.22	0.70
1:M:116:LEU:CB	1:M:117:PRO:HD2	2.24	0.70
1:M:332:LEU:HD21	1:M:407:MET:HB3	1.73	0.70
1:P:63:ASN:N	1:P:64:PRO:HD2	2.07	0.70
1:Q:28:VAL:HG12	1:Q:30:VAL:HG23	1.73	0.70
1:R:56:ARG:HD2	1:R:99:LEU:CD2	2.21	0.70
1:T:1:MET:HE1	1:T:47:PRO:HB3	1.72	0.70
1:V:527:ILE:HD11	1:V:539:LEU:HB2	1.74	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:14:HIS:ND1	1:X:36:ILE:HG22	2.07	0.70
1:X:459:SER:HB3	1:X:488:THR:HG22	1.73	0.70
1:A:529:ILE:HD12	1:A:537:LEU:HB2	1.73	0.70
1:C:128:ASP:HB2	1:C:155:LYS:HB3	1.74	0.70
1:C:338:GLN:HB3	1:C:339:PRO:HD3	2.08	0.70
1:F:14:HIS:CB	1:F:56:ARG:HB2	2.22	0.70
1:F:90:ILE:HD12	1:F:154:GLN:HB2	2.19	0.70
1:E:244:ARG:HD3	1:F:221:LEU:HD21	1.74	0.70
1:F:30:VAL:HG22	1:F:74:LEU:HG	1.74	0.70
1:J:14:HIS:HD1	1:J:36:ILE:HG22	2.17	0.70
1:J:60:ILE:H	1:J:60:ILE:HD12	1.56	0.70
1:L:8:ILE:HA	1:L:40:ASN:HD22	1.55	0.70
1:L:481:VAL:HG11	1:L:487:VAL:CG1	2.22	0.70
1:R:184:ASP:HB3	1:R:187:GLY:O	1.92	0.70
1:S:182:CYS:SG	1:S:208:VAL:CG2	2.80	0.70
1:S:221:LEU:HD22	1:S:256:THR:HG21	1.74	0.70
1:S:529:ILE:C	1:S:529:ILE:HD12	2.12	0.70
1:U:121:LEU:HB2	1:U:145:PHE:HB2	1.74	0.70
1:U:382:LEU:CD1	1:U:388:ILE:CD1	2.67	0.70
1:W:472:ASP:HA	1:W:493:GLU:HB3	1.72	0.70
1:X:65:VAL:HG12	1:X:110:THR:HG22	1.72	0.70
1:Z:382:LEU:H	1:Z:405:THR:HG22	1.56	0.70
1:A:653:ALA:HB1	1:B:662:ILE:CD1	2.39	0.70
1:C:182:CYS:O	1:C:190:ARG:HB2	1.94	0.70
1:C:260:VAL:HB	1:C:263:VAL:HA	2.06	0.70
1:C:529:ILE:HG22	1:C:580:ARG:HB2	2.38	0.70
1:C:653:ALA:CB	1:D:662:ILE:HD13	3.17	0.70
1:E:45:PHE:HB3	1:E:47:PRO:HD2	1.85	0.70
1:G:221:LEU:CD2	1:G:256:THR:HG21	2.68	0.70
1:H:61:VAL:HG13	1:H:65:VAL:HG23	1.74	0.70
1:I:284:ILE:H	1:I:284:ILE:HD13	1.58	0.70
1:J:285:LEU:CD1	1:J:315:ARG:HH11	2.76	0.70
1:K:394:LYS:HA	1:L:329:GLN:NE2	2.23	0.70
1:M:262:ASP:HB3	1:M:264:TYR:CE1	2.38	0.70
1:Q:164:GLN:NE2	1:Q:204:TYR:HB3	2.07	0.70
1:Q:70:GLN:HG2	1:Q:104:VAL:HG12	1.74	0.70
1:S:273:ILE:HG13	1:S:308:PHE:HB3	1.74	0.70
1:V:54:PRO:CB	1:V:55:PRO:HD3	2.18	0.70
1:W:571:ALA:O	1:W:575:ILE:HD13	1.92	0.70
1:V:755:THR:HG21	1:W:761:ARG:HG2	1.72	0.70
1:C:14:HIS:NE2	1:C:16:ILE:HD11	3.49	0.69
1:C:472:ASP:HA	1:C:493:GLU:CB	2.21	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:73:VAL:N	1:C:84:ARG:HB2	2.06	0.69
1:F:701:LYS:HG3	1:G:709:LEU:HD13	1.74	0.69
1:H:154:GLN:HG3	1:H:155:LYS:HG3	1.78	0.69
1:H:164:GLN:NE2	1:H:204:TYR:HB2	2.06	0.69
1:I:331:GLY:O	1:I:360:ARG:HB2	2.24	0.69
1:J:204:TYR:O	1:J:206:PRO:HD3	1.92	0.69
1:J:485:GLU:HG2	1:J:486:LEU:N	2.05	0.69
1:J:564:VAL:HG21	1:J:631:ASN:ND2	2.79	0.69
1:J:813:ALA:O	1:J:815:PRO:HD3	1.91	0.69
1:J:245:THR:HG22	1:K:219:VAL:HG11	1.74	0.69
1:K:45:PHE:HB3	1:K:47:PRO:HD2	1.73	0.69
1:K:485:GLU:HG2	1:K:486:LEU:N	2.06	0.69
1:K:759:LEU:HD21	1:L:765:VAL:HG22	1.74	0.69
1:L:14:HIS:HB3	1:L:56:ARG:HB2	1.73	0.69
1:M:495:PHE:HB3	1:M:514:LEU:HD11	1.73	0.69
1:L:653:ALA:HB3	1:M:662:ILE:HD11	1.88	0.69
1:O:330:GLN:HE22	1:O:360:ARG:HD2	1.57	0.69
1:U:771:ILE:HA	1:U:774:ARG:HH11	1.56	0.69
1:W:481:VAL:HG11	1:W:487:VAL:HG11	1.74	0.69
1:V:653:ALA:HB3	1:W:662:ILE:HD11	1.74	0.69
1:Z:284:ILE:H	1:Z:284:ILE:HD13	1.57	0.69
1:A:120:ALA:HB2	1:A:164:GLN:NE2	2.16	0.69
1:C:4:GLU:OE2	1:C:6:ALA:HB2	1.91	0.69
1:D:382:LEU:H	1:D:405:THR:HG22	1.58	0.69
1:F:183:PHE:HA	1:F:190:ARG:HD3	1.73	0.69
1:J:221:LEU:HD21	1:J:256:THR:HG21	1.78	0.69
1:J:273:ILE:HG21	1:J:316:LEU:HD11	1.73	0.69
1:K:1:MET:HE3	1:K:47:PRO:HB3	1.73	0.69
1:M:662:ILE:O	1:M:666:THR:HB	2.12	0.69
1:N:474:ARG:HG3	1:N:492:GLU:CB	2.16	0.69
1:Q:692:LYS:HG2	1:Q:696:GLN:HE21	1.56	0.69
1:S:65:VAL:HG12	1:S:110:THR:CG2	2.22	0.69
1:S:176:LEU:HB2	1:S:196:TRP:HB2	1.72	0.69
1:S:224:LYS:HA	1:S:272:PRO:HG3	1.72	0.69
1:U:262:ASP:HB3	1:U:264:TYR:CZ	2.27	0.69
1:U:490:ASP:CG	1:U:491:PRO:HD2	2.12	0.69
1:W:176:LEU:HD13	1:W:209:PHE:CD1	2.27	0.69
1:Z:180:LYS:C	1:Z:182:CYS:H	1.96	0.69
1:Z:399:ARG:HH11	1:Z:399:ARG:HG2	1.55	0.69
1:A:123:LEU:HG	1:A:143:TRP:HB2	1.87	0.69
1:A:196:TRP:CE3	1:A:196:TRP:HA	2.35	0.69
1:A:19:LEU:HA	1:A:32:PRO:CB	2.30	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:19:LEU:HA	1:A:32:PRO:HB3	1.85	0.69
1:A:338:GLN:CB	1:A:339:PRO:HD3	2.21	0.69
1:A:54:PRO:HB2	1:A:55:PRO:CD	2.39	0.69
1:A:60:ILE:H	1:A:60:ILE:HD12	1.56	0.69
1:B:340:LEU:HD23	1:B:352:GLN:HA	1.99	0.69
1:B:20:ASP:HB2	1:B:49:ARG:HD2	2.93	0.69
1:C:166:THR:HA	1:C:202:GLY:HA2	1.96	0.69
1:C:184:ASP:HB2	1:C:189:GLY:O	1.91	0.69
1:E:130:GLU:N	1:E:137:VAL:HG12	1.98	0.69
1:E:529:ILE:HD12	1:E:537:LEU:HB2	1.73	0.69
1:F:130:GLU:H	1:F:137:VAL:HG13	7.35	0.69
1:I:179:ARG:NH2	1:I:209:PHE:O	2.61	0.69
1:I:221:LEU:HD22	1:I:256:THR:HG21	1.72	0.69
1:H:654:LEU:HD12	1:I:662:ILE:HD12	2.19	0.69
1:J:327:SER:HB2	1:J:331:GLY:CA	2.57	0.69
1:J:536:ARG:HB2	1:J:646:VAL:HB	1.73	0.69
1:K:771:ILE:HD13	1:K:774:ARG:NH1	4.56	0.69
1:L:1:MET:HE1	1:L:47:PRO:HB3	1.74	0.69
1:M:124:LYS:O	1:M:156:GLU:HB3	1.92	0.69
1:M:175:ARG:HG3	1:M:215:LEU:HD23	1.88	0.69
1:M:224:LYS:HA	1:M:272:PRO:HG3	1.74	0.69
1:P:281:TYR:CD2	1:P:366:VAL:HG13	2.26	0.69
1:V:799:THR:HG21	1:W:801:ALA:HB1	1.73	0.69
1:A:501:SER:HB3	1:A:507:ARG:O	1.97	0.69
1:G:67:ARG:HG2	1:G:108:ASP:HA	2.26	0.69
1:K:227:LEU:CB	1:K:251:VAL:HG12	2.23	0.69
1:K:717:GLU:O	1:K:721:ASN:HB2	1.93	0.69
1:L:564:VAL:CG2	1:L:631:ASN:HD22	2.06	0.69
1:M:807:ILE:HD12	1:M:808:ARG:N	4.54	0.69
1:Q:164:GLN:HB3	1:Q:204:TYR:HA	1.73	0.69
1:P:244:ARG:NH1	1:Q:221:LEU:HD11	2.08	0.69
1:S:330:GLN:HB3	1:S:379:ALA:HB3	1.74	0.69
1:S:539:LEU:HD22	1:S:643:VAL:HG22	1.72	0.69
1:A:16:ILE:HB	1:A:51:VAL:HB	1.73	0.69
1:B:182:CYS:SG	1:B:208:VAL:HG21	2.32	0.69
1:C:9:ARG:NH1	1:C:36:ILE:HA	2.09	0.69
1:F:9:ARG:NH1	1:F:36:ILE:HA	2.08	0.69
1:G:109:ILE:HD12	1:G:153:PRO:CG	2.79	0.69
1:G:14:HIS:NE2	1:G:16:ILE:HD11	2.07	0.69
1:G:260:VAL:HA	1:G:264:TYR:H	1.58	0.69
1:H:60:ILE:HG12	1:H:93:ALA:HA	2.91	0.69
1:K:90:ILE:HD12	1:K:154:GLN:HB2	4.55	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:221:LEU:HD22	1:K:256:THR:HG21	1.74	0.69
1:K:332:LEU:HD23	1:K:358:LEU:HD11	2.01	0.69
1:L:529:ILE:HG22	1:L:580:ARG:HB2	1.79	0.69
1:M:221:LEU:HD22	1:M:256:THR:CB	2.63	0.69
1:O:130:GLU:HB2	1:O:136:LYS:HA	1.75	0.69
1:Q:260:VAL:HB	1:Q:263:VAL:HA	1.74	0.69
1:R:154:GLN:HG3	1:R:155:LYS:HG3	1.74	0.69
1:S:1:MET:HE3	1:S:47:PRO:HB3	1.75	0.69
1:U:281:TYR:CE1	1:U:321:GLN:HB2	2.26	0.69
1:U:771:ILE:HD13	1:U:774:ARG:HD2	1.74	0.69
1:U:580:ARG:HH22	1:V:595:SER:HB2	1.58	0.69
1:V:601:MET:CG	1:V:622:ALA:HB2	2.23	0.69
1:X:123:LEU:HG	1:X:143:TRP:HB2	1.74	0.69
1:B:14:HIS:CB	1:B:56:ARG:HB2	2.21	0.69
1:D:276:LEU:HB2	1:D:280:HIS:ND1	2.52	0.69
1:E:533:ASP:OD1	1:E:588:PHE:N	2.23	0.69
1:G:19:LEU:HA	1:G:32:PRO:CB	2.24	0.69
1:H:215:LEU:HB3	1:H:259:HIS:NE2	2.06	0.69
1:H:804:PRO:O	1:H:807:ILE:HD11	1.93	0.69
1:I:310:LEU:H	1:I:310:LEU:HD12	1.56	0.69
1:K:472:ASP:HA	1:K:493:GLU:HB3	1.74	0.69
1:K:4:GLU:OE2	1:K:6:ALA:HB2	1.92	0.69
1:K:60:ILE:HD13	1:K:93:ALA:HA	1.87	0.69
1:L:569:GLY:O	1:L:573:LYS:HB2	2.15	0.69
1:O:469:GLN:HB3	1:O:496:THR:HG21	1.75	0.69
1:O:654:LEU:CD1	1:P:662:ILE:CD1	2.71	0.69
1:N:708:GLU:HG3	1:O:716:VAL:HG11	1.73	0.69
1:O:654:LEU:CD1	1:P:662:ILE:HD13	2.22	0.69
1:Q:276:LEU:HD13	1:Q:278:PRO:HD2	1.75	0.69
1:S:419:LEU:HD23	1:S:421:SER:H	1.58	0.69
1:U:337:LEU:HD11	1:U:371:VAL:HG22	1.73	0.69
1:V:228:HIS:HB3	1:V:267:VAL:HB	1.73	0.69
1:X:332:LEU:HD22	1:X:377:ARG:HD2	1.74	0.69
1:B:182:CYS:SG	1:B:208:VAL:HG23	2.76	0.69
1:B:260:VAL:HA	1:B:264:TYR:H	1.62	0.69
1:C:28:VAL:HG12	1:C:30:VAL:HG23	1.92	0.69
1:C:19:LEU:HA	1:C:32:PRO:HB3	1.74	0.69
1:B:727:GLU:HG3	1:C:735:ILE:HD13	1.75	0.69
1:F:5:GLU:HG2	1:F:43:VAL:CG2	2.28	0.69
1:G:517:LEU:H	1:G:517:LEU:HD12	1.92	0.69
1:H:408:LEU:H	1:H:408:LEU:HD12	1.54	0.69
1:I:100:TYR:HD2	1:I:101:PRO:HD3	1.57	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:382:LEU:H	1:J:405:THR:HG22	1.57	0.69
1:K:284:ILE:HD13	1:K:284:ILE:H	1.55	0.69
1:Q:15:TYR:HA	1:Q:53:VAL:HB	1.75	0.69
1:R:494:GLN:HA	1:R:494:GLN:NE2	2.08	0.69
1:T:221:LEU:HD22	1:T:256:THR:CB	2.22	0.69
1:T:58:TYR:HD1	1:T:99:LEU:HD12	1.57	0.69
1:U:539:LEU:HD22	1:U:643:VAL:HG22	1.74	0.69
1:V:382:LEU:H	1:V:405:THR:HG22	1.57	0.69
1:X:228:HIS:HB3	1:X:267:VAL:HB	1.74	0.69
1:Y:123:LEU:HA	1:Y:158:GLU:HA	1.74	0.69
1:Y:221:LEU:HD22	1:Y:256:THR:CB	2.21	0.69
1:Y:19:LEU:HA	1:Y:32:PRO:HB3	1.73	0.69
1:A:175:ARG:HH21	1:A:263:VAL:HG13	2.04	0.69
1:B:330:GLN:CB	1:B:379:ALA:HB3	2.16	0.69
1:B:549:LEU:HD12	1:B:552:ARG:HA	2.00	0.69
1:C:389:TYR:CE1	1:C:457:VAL:HA	2.27	0.69
1:D:794:LYS:O	1:D:798:MET:HG2	2.12	0.69
1:E:221:LEU:HA	1:E:253:VAL:HG13	1.74	0.69
1:F:227:LEU:O	1:F:250:LEU:HA	1.91	0.69
1:G:115:VAL:O	1:G:118:ASN:HB3	1.92	0.69
1:G:14:HIS:CB	1:G:56:ARG:HB2	2.40	0.69
1:G:796:LYS:O	1:G:799:THR:HG22	1.93	0.69
1:G:802:LEU:HD12	1:G:806:THR:HG22	1.73	0.69
1:I:14:HIS:NE2	1:I:16:ILE:CD1	4.07	0.69
1:I:220:ILE:HD13	1:I:251:VAL:HG13	3.14	0.69
1:I:807:ILE:HD12	1:J:806:THR:HG21	3.43	0.69
1:K:579:VAL:HG13	1:K:599:ILE:CD1	2.23	0.69
1:K:723:LYS:HG3	1:L:735:ILE:HD11	3.80	0.69
1:N:279:ARG:HG3	1:N:280:HIS:CD2	2.27	0.69
1:P:176:LEU:HD13	1:P:209:PHE:CD1	2.28	0.69
1:Q:382:LEU:H	1:Q:405:THR:HG22	1.57	0.69
1:Q:523:PHE:CE1	1:Q:568:VAL:HG12	2.28	0.69
1:R:474:ARG:HG3	1:R:492:GLU:HB2	1.73	0.69
1:R:587:THR:HG23	1:R:590:ASP:CB	2.22	0.69
1:U:67:ARG:O	1:U:91:ARG:HB2	1.93	0.69
1:U:72:SER:HB3	1:U:84:ARG:HH21	1.58	0.69
1:Z:121:LEU:HB2	1:Z:145:PHE:HB3	1.75	0.69
1:A:180:LYS:C	1:A:182:CYS:N	2.57	0.69
1:D:704:LYS:HD2	1:E:712:MET:HB3	2.01	0.69
1:F:252:THR:H	1:F:254:GLN:NE2	1.91	0.69
1:G:221:LEU:HD22	1:G:256:THR:HB	2.48	0.69
1:I:3:THR:HG22	1:I:50:MET:HE1	1.74	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:227:LEU:O	1:J:250:LEU:HA	2.13	0.69
1:K:19:LEU:HA	1:K:32:PRO:HB2	1.90	0.69
1:M:527:ILE:HD13	1:M:527:ILE:H	1.58	0.69
1:P:227:LEU:HB2	1:P:251:VAL:CG1	2.23	0.69
1:P:388:ILE:HD13	1:P:388:ILE:H	1.58	0.69
1:Q:14:HIS:HB2	1:Q:56:ARG:HB2	1.74	0.69
1:Y:338:GLN:HB3	1:Y:339:PRO:HD3	1.75	0.69
1:B:335:LYS:HE2	1:B:371:VAL:HG11	2.38	0.69
1:C:183:PHE:HE2	1:C:188:LYS:HA	2.01	0.69
1:E:481:VAL:HG11	1:E:487:VAL:CG1	2.23	0.69
1:F:115:VAL:N	1:F:118:ASN:HD22	2.15	0.69
1:F:171:ASN:O	1:F:216:VAL:HA	1.92	0.69
1:H:382:LEU:HD13	1:H:387:GLY:HA2	2.09	0.69
1:H:90:ILE:HD13	1:H:90:ILE:H	3.77	0.69
1:I:807:ILE:HD12	1:I:808:ARG:N	2.08	0.69
1:N:338:GLN:OE1	1:O:278:PRO:HB2	1.93	0.69
1:T:381:PRO:CA	1:T:405:THR:HG22	2.21	0.69
1:V:28:VAL:HG12	1:V:30:VAL:HG23	1.74	0.69
1:Z:1:MET:HE1	1:Z:47:PRO:HB3	1.72	0.69
1:A:495:PHE:HB3	1:A:514:LEU:HD11	1.75	0.69
1:A:587:THR:HG23	1:A:590:ASP:HB3	2.00	0.69
1:E:281:TYR:CE1	1:E:321:GLN:HB2	2.28	0.69
1:G:154:GLN:HG3	1:G:155:LYS:HG3	1.81	0.69
1:H:221:LEU:HA	1:H:253:VAL:HG13	1.75	0.69
1:G:338:GLN:OE1	1:H:278:PRO:HB2	1.92	0.69
1:J:106:GLU:O	1:J:107:LYS:HD2	1.92	0.69
1:K:228:HIS:NE2	1:K:312:PRO:HB3	2.08	0.69
1:K:587:THR:HG23	1:K:590:ASP:HB3	1.95	0.69
1:M:167:VAL:HG22	1:M:201:VAL:HA	1.75	0.69
1:N:337:LEU:HD23	1:N:337:LEU:N	2.08	0.69
1:O:407:MET:SD	1:O:407:MET:N	2.66	0.69
1:O:794:LYS:O	1:O:798:MET:HG2	1.93	0.69
1:P:19:LEU:HD23	1:P:32:PRO:HB2	1.75	0.69
1:P:330:GLN:HB3	1:P:379:ALA:HB3	1.74	0.69
1:P:785:GLN:HA	1:Q:790:VAL:HG21	1.74	0.69
1:R:100:TYR:HB3	1:R:101:PRO:CD	2.23	0.69
1:U:36:ILE:O	1:U:36:ILE:HD13	1.92	0.69
1:X:174:LEU:HB2	1:X:198:VAL:HB	1.75	0.69
1:Y:36:ILE:HG21	1:Y:99:LEU:HD13	1.73	0.69
1:Z:419:LEU:HD12	1:Z:494:GLN:HE21	1.58	0.69
1:B:387:GLY:HA3	1:B:402:ILE:HG22	2.00	0.68
1:C:330:GLN:CB	1:C:379:ALA:HB3	2.22	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:494:GLN:HA	1:E:494:GLN:NE2	2.08	0.68
1:H:533:ASP:OD1	1:H:587:THR:HA	1.93	0.68
1:J:653:ALA:HB3	1:K:662:ILE:CD1	2.22	0.68
1:L:227:LEU:HB2	1:L:251:VAL:CG1	2.22	0.68
1:L:804:PRO:O	1:L:807:ILE:HD11	2.42	0.68
1:M:174:LEU:HB2	1:M:198:VAL:HB	1.74	0.68
1:M:227:LEU:O	1:M:250:LEU:HA	2.09	0.68
1:N:16:ILE:HA	1:N:34:THR:OG1	1.92	0.68
1:N:182:CYS:SG	1:N:208:VAL:HB	2.33	0.68
1:O:377:ARG:NH1	1:O:408:LEU:O	2.25	0.68
1:O:382:LEU:HD13	1:O:387:GLY:HA2	1.75	0.68
1:Q:70:GLN:HB3	1:Q:104:VAL:O	1.93	0.68
1:Q:67:ARG:NE	1:Q:108:ASP:HB3	2.08	0.68
1:R:19:LEU:HD23	1:R:32:PRO:HB2	1.74	0.68
1:X:130:GLU:CB	1:X:136:LYS:HA	2.23	0.68
1:Z:523:PHE:CE1	1:Z:568:VAL:HG12	2.28	0.68
1:A:130:GLU:H	1:A:137:VAL:HG13	3.66	0.68
1:A:804:PRO:O	1:A:807:ILE:HD11	1.92	0.68
1:B:14:HIS:HD1	1:B:36:ILE:HG22	1.75	0.68
1:B:45:PHE:HB3	1:B:47:PRO:HD2	1.79	0.68
1:B:697:SER:HA	1:C:706:LEU:HD23	1.74	0.68
1:D:452:ARG:HH12	1:D:454:LYS:HA	1.66	0.68
1:E:653:ALA:HB1	1:F:662:ILE:CD1	2.23	0.68
1:F:1:MET:HE1	1:F:47:PRO:HB3	1.73	0.68
1:F:221:LEU:CD2	1:F:256:THR:HG21	2.60	0.68
1:G:311:GLN:HB3	1:G:312:PRO:HD2	1.96	0.68
1:H:10:ILE:H	1:H:10:ILE:HD12	1.64	0.68
1:H:182:CYS:O	1:H:190:ARG:HB2	1.92	0.68
1:I:335:LYS:HG2	1:I:373:VAL:HG12	1.75	0.68
1:I:600:ARG:NH1	1:I:622:ALA:HB3	2.15	0.68
1:K:90:ILE:N	1:K:90:ILE:HD13	4.46	0.68
1:O:123:LEU:HD11	1:O:143:TRP:HD1	1.57	0.68
1:R:221:LEU:HD22	1:R:256:THR:CG2	2.20	0.68
1:R:229:LEU:HD23	1:R:266:GLU:HA	1.73	0.68
1:R:60:ILE:H	1:R:60:ILE:HD12	1.57	0.68
1:S:182:CYS:SG	1:S:208:VAL:HG21	2.33	0.68
1:U:116:LEU:CB	1:U:117:PRO:HD2	2.14	0.68
1:U:9:ARG:NH1	1:U:36:ILE:HA	2.05	0.68
1:U:384:GLN:HE21	1:U:384:GLN:H	1.41	0.68
1:A:9:ARG:NH1	1:A:36:ILE:HA	2.08	0.68
1:B:227:LEU:O	1:B:250:LEU:HA	2.13	0.68
1:E:273:ILE:HG23	1:E:310:LEU:HD11	1.74	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:623:ARG:CG	1:E:624:ASP:H	2.24	0.68
1:F:14:HIS:HB3	1:F:56:ARG:HB2	1.80	0.68
1:F:547:PHE:CD2	1:F:561:LEU:HD23	2.75	0.68
1:F:729:ARG:HB2	1:F:729:ARG:NH1	2.08	0.68
1:G:390:VAL:HG12	1:G:408:LEU:HD23	1.75	0.68
1:G:794:LYS:O	1:G:798:MET:HG2	1.92	0.68
1:H:729:ARG:HH11	1:H:729:ARG:HB2	1.58	0.68
1:J:588:PHE:CD2	1:K:662:ILE:HD11	7.74	0.68
1:L:469:GLN:HB3	1:L:496:THR:HG21	1.77	0.68
1:L:14:HIS:HB3	1:L:56:ARG:CB	2.23	0.68
1:M:77:ILE:HG13	1:M:79:GLY:H	1.57	0.68
1:N:221:LEU:HD13	1:N:256:THR:HB	1.74	0.68
1:S:425:GLU:H	1:S:425:GLU:CD	1.96	0.68
1:T:587:THR:HG23	1:T:590:ASP:CB	2.22	0.68
1:Y:363:LEU:HD13	1:Y:364:GLU:H	1.57	0.68
1:B:221:LEU:CD2	1:B:256:THR:CB	2.70	0.68
1:C:729:ARG:HB2	1:C:729:ARG:NH1	2.08	0.68
1:E:221:LEU:HD21	1:E:256:THR:CG2	3.02	0.68
1:E:330:GLN:HA	1:E:330:GLN:OE1	2.44	0.68
1:E:4:GLU:OE2	1:E:6:ALA:HB2	1.92	0.68
1:D:727:GLU:HG3	1:E:735:ILE:HD13	1.74	0.68
1:E:73:VAL:HG11	1:E:82:ARG:HB2	2.32	0.68
1:F:281:TYR:HE1	1:F:321:GLN:HB2	1.55	0.68
1:G:152:ILE:N	1:G:152:ILE:CD1	3.07	0.68
1:H:19:LEU:HA	1:H:32:PRO:CB	2.23	0.68
1:H:327:SER:CB	1:H:331:GLY:HA3	2.37	0.68
1:I:132:LYS:HZ2	1:I:152:ILE:HD12	2.17	0.68
1:I:169:LYS:HE3	1:I:201:VAL:HG11	1.75	0.68
1:K:1:MET:HE1	1:K:47:PRO:HB3	1.74	0.68
1:L:311:GLN:HB3	1:L:312:PRO:HD2	1.75	0.68
1:N:760:GLU:O	1:N:764:LYS:HG2	1.92	0.68
1:O:363:LEU:HD13	1:O:364:GLU:H	1.58	0.68
1:P:252:THR:H	1:P:254:GLN:NE2	1.91	0.68
1:S:115:VAL:H	1:S:118:ASN:ND2	1.90	0.68
1:W:182:CYS:SG	1:W:208:VAL:HG21	2.34	0.68
1:W:167:VAL:HG13	1:W:202:GLY:H	1.58	0.68
1:X:387:GLY:HA3	1:X:402:ILE:HG22	1.74	0.68
1:X:45:PHE:HB3	1:X:47:PRO:HD2	1.75	0.68
1:A:221:LEU:HD22	1:A:256:THR:CB	2.29	0.68
1:B:394:LYS:HG2	1:C:329:GLN:CG	2.20	0.68
1:E:175:ARG:NE	1:E:263:VAL:HG22	2.15	0.68
1:E:452:ARG:HG3	1:E:452:ARG:HH11	1.59	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:18:VAL:N	1:G:48:VAL:HG13	2.13	0.68
1:J:180:LYS:C	1:J:182:CYS:H	1.96	0.68
1:L:534:HIS:CD2	1:M:654:LEU:HG	2.28	0.68
1:Q:1:MET:HE1	1:Q:47:PRO:HB3	1.76	0.68
1:R:68:ASP:O	1:R:106:GLU:HB2	1.93	0.68
1:S:132:LYS:HZ2	1:S:152:ILE:CD1	1.95	0.68
1:T:338:GLN:CB	1:T:339:PRO:HD3	2.22	0.68
1:U:176:LEU:HD13	1:U:209:PHE:HD1	1.58	0.68
1:V:1:MET:HE1	1:V:47:PRO:HB3	1.76	0.68
1:B:227:LEU:HD13	1:B:229:LEU:HD21	2.40	0.68
1:E:125:ALA:HB3	1:E:140:GLY:HA2	1.75	0.68
1:G:529:ILE:HD11	1:G:537:LEU:HB2	1.74	0.68
1:H:5:GLU:HG2	1:H:43:VAL:CG2	2.62	0.68
1:I:551:ASN:HB3	1:I:554:ASP:HB3	1.75	0.68
1:J:355:ASP:HA	1:K:328:GLU:HB2	1.76	0.68
1:M:340:LEU:HG	1:M:353:ALA:H	1.59	0.68
1:M:601:MET:CG	1:M:622:ALA:HB2	2.23	0.68
1:N:73:VAL:N	1:N:84:ARG:HB2	2.08	0.68
1:O:14:HIS:HB3	1:O:56:ARG:HB2	1.75	0.68
1:R:571:ALA:O	1:R:575:ILE:HD13	1.92	0.68
1:S:229:LEU:HD23	1:S:266:GLU:HA	1.75	0.68
1:S:564:VAL:HG22	1:S:631:ASN:HD22	1.57	0.68
1:W:762:VAL:O	1:W:766:ARG:HB2	1.93	0.68
1:B:490:ASP:CG	1:B:491:PRO:HD2	2.14	0.68
1:C:60:ILE:HD11	1:C:95:ASP:O	2.55	0.68
1:F:224:LYS:O	1:F:272:PRO:HD3	1.94	0.68
1:F:54:PRO:CB	1:F:55:PRO:HD3	2.13	0.68
1:G:384:GLN:H	1:G:384:GLN:HE21	1.42	0.68
1:F:653:ALA:HB3	1:G:662:ILE:HD13	2.54	0.68
1:I:377:ARG:NH1	1:I:408:LEU:O	2.67	0.68
1:J:126:LEU:HB2	1:J:157:VAL:HG23	1.75	0.68
1:L:100:TYR:HB3	1:L:101:PRO:CD	2.31	0.68
1:M:134:GLY:O	1:M:135:ASP:HB2	2.84	0.68
1:M:24:ASN:HD22	1:M:30:VAL:HB	1.58	0.68
1:N:132:LYS:HZ1	1:N:152:ILE:HD12	0.86	0.68
1:N:184:ASP:HB2	1:N:189:GLY:O	1.94	0.68
1:N:654:LEU:HD11	1:O:662:ILE:HG21	1.74	0.68
1:P:587:THR:HG23	1:P:590:ASP:CB	2.24	0.68
1:S:655:GLN:O	1:S:658:VAL:HG12	1.94	0.68
1:T:771:ILE:HD13	1:T:774:ARG:NH1	2.08	0.68
1:U:481:VAL:HG11	1:U:487:VAL:HG13	1.76	0.68
1:W:522:PHE:C	1:W:522:PHE:CD2	2.67	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:785:GLN:HA	1:W:790:VAL:HG21	1.75	0.68
1:C:601:MET:CG	1:C:622:ALA:HB2	2.45	0.68
1:D:601:MET:HG2	1:D:622:ALA:CB	2.24	0.68
1:D:601:MET:CG	1:D:622:ALA:HB2	2.38	0.68
1:E:3:THR:HG22	1:E:50:MET:HE1	2.25	0.68
1:J:175:ARG:NE	1:J:263:VAL:HG22	2.45	0.68
1:L:11:PRO:HB2	1:L:12:PRO:HD3	1.75	0.68
1:L:154:GLN:HG3	1:L:155:LYS:CE	2.23	0.68
1:L:273:ILE:HG23	1:L:310:LEU:HD11	2.17	0.68
1:L:654:LEU:HD12	1:M:662:ILE:CD1	3.39	0.68
1:N:328:GLU:HA	1:N:328:GLU:OE1	1.93	0.68
1:O:601:MET:HG3	1:O:622:ALA:HB2	1.74	0.68
1:P:73:VAL:H	1:P:84:ARG:CB	2.06	0.68
1:X:19:LEU:HD23	1:X:32:PRO:HB2	1.74	0.68
1:X:381:PRO:HA	1:X:405:THR:CG2	2.23	0.68
1:Y:190:ARG:O	1:Y:191:VAL:HG23	1.94	0.68
1:Y:227:LEU:O	1:Y:250:LEU:HA	1.93	0.68
1:C:204:TYR:O	1:C:206:PRO:HD3	2.40	0.68
1:E:16:ILE:HA	1:E:34:THR:OG1	1.99	0.68
1:G:597:ARG:HG3	1:G:600:ARG:HH21	1.58	0.68
1:H:575:ILE:HD12	1:H:603:VAL:HG13	1.76	0.68
1:I:419:LEU:HD12	1:I:494:GLN:NE2	2.09	0.68
1:I:605:GLY:O	1:I:623:ARG:HB2	1.94	0.68
1:K:100:TYR:HB3	1:K:101:PRO:HD2	1.74	0.68
1:L:164:GLN:NE2	1:L:204:TYR:HB3	2.08	0.68
1:M:501:SER:HB3	1:M:507:ARG:O	2.39	0.68
1:N:100:TYR:HB3	1:N:101:PRO:CD	2.23	0.68
1:T:28:VAL:HG12	1:T:30:VAL:HG23	1.76	0.68
1:W:228:HIS:HB3	1:W:267:VAL:HB	1.76	0.68
1:W:481:VAL:HG11	1:W:487:VAL:CG1	2.24	0.68
1:Z:328:GLU:CG	1:Z:329:GLN:N	2.57	0.68
1:B:121:LEU:HB2	1:B:145:PHE:HB3	1.74	0.68
1:B:332:LEU:HD23	1:B:358:LEU:HD11	1.75	0.68
1:B:452:ARG:NH1	1:B:452:ARG:HG3	2.08	0.68
1:B:54:PRO:CB	1:B:55:PRO:HD3	2.13	0.68
1:C:419:LEU:HD23	1:C:421:SER:H	1.59	0.68
1:E:600:ARG:NH1	1:E:622:ALA:HB3	2.08	0.68
1:F:116:LEU:HB3	1:F:117:PRO:CD	2.23	0.68
1:F:251:VAL:HG23	1:F:254:GLN:NE2	2.40	0.68
1:F:199:ARG:NH2	1:F:258:ALA:HB3	2.09	0.68
1:F:5:GLU:CG	1:F:43:VAL:HG21	2.25	0.68
1:I:355:ASP:HA	1:J:328:GLU:CG	2.23	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:297:GLY:O	1:L:276:LEU:HD22	1.94	0.68
1:N:19:LEU:HA	1:N:32:PRO:CB	2.24	0.68
1:R:481:VAL:HG11	1:R:487:VAL:HG13	1.75	0.68
1:S:221:LEU:HD22	1:S:256:THR:CB	2.24	0.68
1:S:481:VAL:HG11	1:S:487:VAL:HG11	1.76	0.68
1:X:311:GLN:HB2	1:X:314:GLU:HG3	1.75	0.68
1:Y:230:ARG:HB2	1:Y:265:GLU:HB3	1.75	0.68
1:A:182:CYS:SG	1:A:208:VAL:HG21	2.34	0.67
1:A:360:ARG:HG3	1:A:361:GLY:N	2.31	0.67
1:B:415:TRP:CZ3	1:B:417:LYS:HB3	2.29	0.67
1:C:130:GLU:H	1:C:137:VAL:HG22	5.33	0.67
1:C:19:LEU:HD23	1:C:32:PRO:HB2	1.74	0.67
1:D:328:GLU:OE1	1:D:362:PRO:HA	1.94	0.67
1:D:452:ARG:HG3	1:D:452:ARG:HH11	1.58	0.67
1:D:72:SER:HB3	1:D:84:ARG:HH21	1.59	0.67
1:E:67:ARG:HG2	1:E:108:ASP:HA	2.36	0.67
1:E:268:LEU:HD13	1:E:269:GLY:H	2.19	0.67
1:F:419:LEU:CG	1:F:420:PRO:HD2	2.20	0.67
1:G:191:VAL:HG12	1:G:194:GLU:HB2	1.75	0.67
1:G:268:LEU:HD13	1:G:269:GLY:H	1.66	0.67
1:F:777:LEU:HD11	1:G:783:LYS:HB2	1.76	0.67
1:H:283:VAL:HG22	1:H:301:VAL:HG12	1.75	0.67
1:J:408:LEU:HD21	1:J:414:LEU:CD1	2.63	0.67
1:M:328:GLU:OE1	1:M:328:GLU:CA	3.06	0.67
1:N:54:PRO:HB2	1:N:55:PRO:CD	2.22	0.67
1:O:252:THR:H	1:O:254:GLN:NE2	1.91	0.67
1:P:116:LEU:HB3	1:P:117:PRO:CD	2.24	0.67
1:P:180:LYS:C	1:P:182:CYS:H	1.96	0.67
1:A:115:VAL:H	1:A:118:ASN:ND2	2.06	0.67
1:B:419:LEU:HD22	1:B:422:GLY:H	1.74	0.67
1:C:64:PRO:HA	1:C:111:PRO:HD2	1.91	0.67
1:E:697:SER:HA	1:F:706:LEU:HD23	1.76	0.67
1:F:279:ARG:HG3	1:F:280:HIS:HD2	2.37	0.67
1:F:495:PHE:HB3	1:F:514:LEU:HD11	1.94	0.67
1:J:171:ASN:O	1:J:216:VAL:HA	1.93	0.67
1:L:65:VAL:HG12	1:L:110:THR:HG22	1.91	0.67
1:M:120:ALA:HB3	1:M:162:ILE:HG13	1.77	0.67
1:M:60:ILE:HD12	1:M:60:ILE:H	1.61	0.67
1:N:67:ARG:O	1:N:91:ARG:HB2	1.95	0.67
1:O:100:TYR:HB3	1:O:101:PRO:CD	2.24	0.67
1:P:255:ASP:OD2	1:P:257:GLU:HB3	1.93	0.67
1:Q:377:ARG:NH1	1:Q:408:LEU:O	2.27	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:762:VAL:O	1:Q:766:ARG:HB2	1.94	0.67
1:S:122:HIS:HB3	1:S:159:VAL:HB	1.76	0.67
1:V:65:VAL:HG12	1:V:110:THR:HG22	1.75	0.67
1:V:601:MET:HG2	1:V:622:ALA:CB	2.25	0.67
1:X:175:ARG:HE	1:X:263:VAL:HG22	1.58	0.67
1:X:185:ARG:H	1:X:209:PHE:HZ	1.41	0.67
1:Y:14:HIS:ND1	1:Y:36:ILE:HG22	2.08	0.67
1:Z:45:PHE:HB3	1:Z:47:PRO:HD2	1.76	0.67
1:D:29:GLU:O	1:D:84:ARG:NH1	2.43	0.67
1:D:481:VAL:HG11	1:D:487:VAL:HG13	1.75	0.67
1:D:587:THR:HG23	1:D:590:ASP:HB3	2.11	0.67
1:H:18:VAL:H	1:H:48:VAL:CG1	2.18	0.67
1:H:408:LEU:CD2	1:H:414:LEU:HD12	3.23	0.67
1:I:60:ILE:HG13	1:I:92:LEU:O	3.97	0.67
1:J:511:ARG:HH22	1:J:517:LEU:HD11	1.72	0.67
1:L:73:VAL:N	1:L:84:ARG:HB2	1.95	0.67
1:M:36:ILE:HG21	1:M:99:LEU:HD13	1.74	0.67
1:P:287:PRO:O	1:P:295:GLN:HB2	1.93	0.67
1:V:340:LEU:HD23	1:V:352:GLN:HA	1.76	0.67
1:W:221:LEU:HD21	1:W:256:THR:HG21	1.75	0.67
1:C:123:LEU:HA	1:C:158:GLU:HA	1.77	0.67
1:D:569:GLY:O	1:D:573:LYS:HB2	1.94	0.67
1:F:580:ARG:HH22	1:G:595:SER:CB	2.07	0.67
1:F:529:ILE:HD13	1:F:583:VAL:HG11	1.76	0.67
1:G:18:VAL:H	1:G:48:VAL:CG1	2.16	0.67
1:G:16:ILE:HA	1:G:34:THR:OG1	1.95	0.67
1:I:125:ALA:HB3	1:I:140:GLY:HA2	1.75	0.67
1:J:151:TYR:HD2	1:J:152:ILE:HD13	2.26	0.67
1:J:564:VAL:CG2	1:J:631:ASN:ND2	3.04	0.67
1:K:221:LEU:CD2	1:K:256:THR:HB	2.77	0.67
1:L:165:ALA:CB	1:L:174:LEU:HD11	2.24	0.67
1:M:184:ASP:HB3	1:M:187:GLY:O	2.22	0.67
1:P:767:GLU:O	1:P:771:ILE:HD13	1.94	0.67
1:P:580:ARG:HH22	1:Q:595:SER:HB2	1.59	0.67
1:R:109:ILE:CD1	1:R:153:PRO:HB2	2.24	0.67
1:R:3:THR:HG22	1:R:50:MET:HE1	1.76	0.67
1:S:14:HIS:HB3	1:S:56:ARG:CB	2.24	0.67
1:T:785:GLN:HA	1:U:790:VAL:HG21	1.75	0.67
1:W:106:GLU:O	1:W:107:LYS:HD2	1.94	0.67
1:X:273:ILE:HG23	1:X:310:LEU:HD11	1.77	0.67
1:W:653:ALA:CB	1:X:662:ILE:HD12	2.23	0.67
1:Z:64:PRO:HA	1:Z:111:PRO:HD2	1.75	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:132:LYS:NZ	1:A:152:ILE:CD1	2.57	0.67
1:A:45:PHE:HB3	1:A:47:PRO:HD2	1.78	0.67
1:D:68:ASP:HA	1:D:90:ILE:HA	2.25	0.67
1:E:771:ILE:HD13	1:E:774:ARG:NH1	2.14	0.67
1:G:766:ARG:HD3	1:H:772:TYR:HB2	2.08	0.67
1:H:184:ASP:HB2	1:H:189:GLY:O	1.94	0.67
1:H:340:LEU:HG	1:H:353:ALA:HB2	1.76	0.67
1:H:469:GLN:HB3	1:H:496:THR:CG2	2.23	0.67
1:I:28:VAL:HG12	1:I:30:VAL:HG23	1.78	0.67
1:K:517:LEU:H	1:K:517:LEU:HD12	1.60	0.67
1:K:745:LYS:HG3	1:L:753:ILE:CD1	2.40	0.67
1:L:332:LEU:HD21	1:L:407:MET:HB3	1.76	0.67
1:M:273:ILE:HD11	1:M:308:PHE:HD2	1.59	0.67
1:N:762:VAL:O	1:N:766:ARG:HB2	1.94	0.67
1:Q:123:LEU:HD11	1:Q:143:TRP:CD1	2.30	0.67
1:Q:387:GLY:CA	1:Q:402:ILE:HG22	2.23	0.67
1:S:152:ILE:N	1:S:152:ILE:HD13	2.08	0.67
1:S:276:LEU:N	1:S:280:HIS:HB2	2.10	0.67
1:U:527:ILE:HD11	1:U:541:LEU:HG	1.77	0.67
1:X:382:LEU:H	1:X:405:THR:HG22	1.58	0.67
1:X:417:LYS:O	1:X:418:GLU:HB2	1.94	0.67
1:Y:1:MET:HE1	1:Y:47:PRO:HB3	1.75	0.67
1:C:221:LEU:CD2	1:C:256:THR:CG2	2.72	0.67
1:D:165:ALA:HB3	1:D:174:LEU:HD11	1.77	0.67
1:E:14:HIS:CB	1:E:56:ARG:CB	3.02	0.67
1:F:340:LEU:HD23	1:F:352:GLN:HA	1.76	0.67
1:F:60:ILE:HB	1:F:93:ALA:HA	2.12	0.67
1:G:176:LEU:CD1	1:G:209:PHE:HD1	2.01	0.67
1:K:29:GLU:O	1:K:84:ARG:NH1	2.26	0.67
1:L:332:LEU:HD23	1:L:358:LEU:HD11	1.88	0.67
1:L:729:ARG:HH11	1:L:729:ARG:HB2	1.61	0.67
1:M:751:LEU:O	1:M:755:THR:HB	2.55	0.67
1:N:130:GLU:CB	1:N:136:LYS:HA	2.25	0.67
1:O:394:LYS:NZ	1:P:329:GLN:HB2	2.09	0.67
1:O:452:ARG:NH2	1:O:458:VAL:HG22	2.09	0.67
1:R:10:ILE:CG2	1:R:11:PRO:HD2	2.24	0.67
1:R:182:CYS:O	1:R:190:ARG:HB2	1.94	0.67
1:R:501:SER:HB3	1:R:508:PRO:HA	1.76	0.67
1:R:785:GLN:HA	1:S:790:VAL:HG21	1.76	0.67
1:R:73:VAL:N	1:R:84:ARG:HG3	2.08	0.67
1:T:262:ASP:HB3	1:T:264:TYR:CE1	2.29	0.67
1:U:194:GLU:HG2	1:U:195:GLU:H	1.60	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:472:ASP:HA	1:U:493:GLU:HB3	1.77	0.67
1:V:229:LEU:HD23	1:V:266:GLU:HA	1.76	0.67
1:Z:533:ASP:OD1	1:Z:587:THR:HA	1.94	0.67
1:B:517:LEU:HD12	1:B:517:LEU:H	1.59	0.67
1:C:284:ILE:H	1:C:284:ILE:HD13	4.40	0.67
1:C:332:LEU:HD23	1:C:358:LEU:HD11	2.23	0.67
1:C:587:THR:HG23	1:C:590:ASP:CB	2.25	0.67
1:D:529:ILE:HD12	1:D:537:LEU:HB2	1.76	0.67
1:E:167:VAL:HG22	1:E:201:VAL:HA	1.76	0.67
1:E:564:VAL:CG2	1:E:631:ASN:HD22	2.76	0.67
1:G:402:ILE:H	1:G:402:ILE:HD13	1.60	0.67
1:J:8:ILE:HG22	1:J:40:ASN:HD21	1.59	0.67
1:K:130:GLU:HB2	1:K:136:LYS:HA	1.76	0.67
1:K:130:GLU:H	1:K:137:VAL:HG12	4.70	0.67
1:K:540:GLN:O	1:K:641:GLN:HG2	1.95	0.67
1:K:68:ASP:HB2	1:K:90:ILE:HG22	1.76	0.67
1:L:19:LEU:HA	1:L:32:PRO:HB3	1.76	0.67
1:L:597:ARG:HG3	1:L:600:ARG:HH21	1.59	0.67
1:O:421:SER:O	1:O:423:VAL:N	2.28	0.67
1:P:70:GLN:HB3	1:P:104:VAL:H	1.58	0.67
1:P:60:ILE:HD13	1:P:93:ALA:HA	1.75	0.67
1:Q:30:VAL:HG22	1:Q:74:LEU:HG	1.75	0.67
1:U:505:PRO:O	1:U:506:LYS:HB2	1.93	0.67
1:U:54:PRO:HB2	1:U:55:PRO:CD	2.20	0.67
1:V:115:VAL:H	1:V:118:ASN:HD22	1.42	0.67
1:V:734:ARG:HH21	1:V:735:ILE:HD13	1.59	0.67
1:X:167:VAL:HG13	1:X:202:GLY:H	1.59	0.67
1:X:539:LEU:HD22	1:X:643:VAL:HG22	1.77	0.67
1:Y:600:ARG:NH1	1:Y:622:ALA:HB3	2.10	0.67
1:Z:18:VAL:H	1:Z:48:VAL:CG1	2.07	0.67
1:Y:339:PRO:HG3	1:Z:278:PRO:HA	1.77	0.67
1:C:53:VAL:HG11	1:C:56:ARG:HG3	1.75	0.67
1:C:807:ILE:HD12	1:C:808:ARG:N	2.09	0.67
1:D:252:THR:H	1:D:254:GLN:HE21	1.76	0.67
1:G:125:ALA:HB3	1:G:140:GLY:HA2	1.83	0.67
1:G:194:GLU:HG2	1:G:195:GLU:H	1.59	0.67
1:G:221:LEU:HD22	1:G:256:THR:CB	2.88	0.67
1:H:115:VAL:H	1:H:118:ASN:ND2	2.15	0.67
1:H:279:ARG:HA	1:H:323:VAL:HG22	1.77	0.67
1:I:523:PHE:CE1	1:I:568:VAL:HG12	2.31	0.67
1:J:167:VAL:HG22	1:J:201:VAL:HA	1.77	0.67
1:J:24:ASN:HD22	1:J:30:VAL:HB	1.60	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:182:CYS:SG	1:L:208:VAL:CG2	2.83	0.67
1:L:328:GLU:CG	1:L:329:GLN:H	1.93	0.67
1:N:176:LEU:CD1	1:N:209:PHE:HD1	2.08	0.67
1:R:137:VAL:HG23	1:R:138:MET:N	2.10	0.67
1:U:176:LEU:HD13	1:U:209:PHE:CD1	2.30	0.67
1:T:354:GLY:HA3	1:U:328:GLU:HG3	1.76	0.67
1:V:228:HIS:NE2	1:V:312:PRO:HB3	2.09	0.67
1:W:28:VAL:HG12	1:W:30:VAL:HG23	1.77	0.67
1:X:61:VAL:HG13	1:X:65:VAL:CG2	2.23	0.67
1:A:185:ARG:NH2	1:A:208:VAL:HG22	2.46	0.67
1:D:511:ARG:NH2	1:D:517:LEU:HD11	2.09	0.67
1:F:125:ALA:HB3	1:F:140:GLY:HA2	1.77	0.67
1:H:252:THR:H	1:H:254:GLN:NE2	2.32	0.67
1:I:529:ILE:CD1	1:I:537:LEU:HB2	2.31	0.67
1:J:311:GLN:HB3	1:J:312:PRO:CD	2.36	0.67
1:J:799:THR:HG21	1:K:801:ALA:HB1	2.23	0.67
1:M:335:LYS:HG2	1:M:373:VAL:HG13	1.77	0.67
1:N:204:TYR:O	1:N:206:PRO:HD3	1.94	0.67
1:O:311:GLN:HB3	1:O:312:PRO:HD2	1.77	0.67
1:Q:19:LEU:HA	1:Q:32:PRO:CB	2.25	0.67
1:R:175:ARG:NE	1:R:263:VAL:HG22	2.09	0.67
1:U:134:GLY:O	1:U:135:ASP:HB2	1.93	0.67
1:V:227:LEU:HB2	1:V:251:VAL:CG1	2.24	0.67
1:V:332:LEU:HD22	1:V:377:ARG:HD2	1.77	0.67
1:W:54:PRO:CB	1:W:55:PRO:HD3	2.18	0.67
1:X:419:LEU:HG	1:X:420:PRO:CD	2.24	0.67
1:Y:221:LEU:HD22	1:Y:256:THR:CG2	2.24	0.67
1:Y:19:LEU:HA	1:Y:32:PRO:CB	2.25	0.67
1:Z:587:THR:HG23	1:Z:590:ASP:HB3	1.76	0.67
1:B:529:ILE:HD12	1:B:583:VAL:HG11	3.21	0.67
1:D:325:VAL:HA	1:D:364:GLU:HA	1.77	0.67
1:J:697:SER:HA	1:K:706:LEU:HD23	1.76	0.67
1:K:137:VAL:HG23	1:K:138:MET:N	2.10	0.67
1:L:474:ARG:HG3	1:L:492:GLU:HB2	1.79	0.67
1:L:419:LEU:HD12	1:L:494:GLN:NE2	2.07	0.67
1:L:662:ILE:O	1:L:666:THR:HB	2.07	0.67
1:N:230:ARG:HG2	1:N:248:GLU:HG2	1.77	0.67
1:N:655:GLN:O	1:N:658:VAL:HG12	1.94	0.67
1:P:5:GLU:HG2	1:P:43:VAL:HG21	1.77	0.67
1:P:653:ALA:HB1	1:Q:662:ILE:HD12	1.77	0.67
1:Q:113:GLN:OE1	1:Q:149:GLY:HA2	1.94	0.67
1:R:284:ILE:N	1:R:284:ILE:HD13	2.09	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:130:GLU:HA	1:T:137:VAL:HG13	1.76	0.67
1:T:18:VAL:N	1:T:48:VAL:HG13	2.08	0.67
1:T:543:TYR:HE2	1:T:575:ILE:HG21	1.56	0.67
1:W:334:LEU:HD12	1:W:377:ARG:NH2	2.10	0.67
1:Z:4:GLU:OE2	1:Z:6:ALA:HB2	1.95	0.67
1:A:128:ASP:OD1	1:A:131:ASP:HB3	1.94	0.66
1:A:5:GLU:HG2	1:A:43:VAL:CG2	2.30	0.66
1:B:693:ILE:HD13	1:B:696:GLN:NE2	2.10	0.66
1:E:122:HIS:O	1:E:159:VAL:N	2.23	0.66
1:E:185:ARG:HH22	1:E:207:ALA:HB3	1.72	0.66
1:E:19:LEU:HD23	1:E:32:PRO:HB2	1.77	0.66
1:E:5:GLU:HG2	1:E:43:VAL:HG21	1.77	0.66
1:F:120:ALA:HB3	1:F:162:ILE:HG13	1.76	0.66
1:F:124:LYS:HG2	1:F:157:VAL:O	2.18	0.66
1:F:523:PHE:CE1	1:F:568:VAL:HG12	2.34	0.66
1:F:697:SER:HA	1:G:706:LEU:HD23	1.77	0.66
1:G:283:VAL:HG22	1:G:301:VAL:HG12	1.77	0.66
1:H:395:THR:HB	1:H:397:LYS:H	2.07	0.66
1:I:120:ALA:O	1:I:161:GLU:HA	2.14	0.66
1:J:287:PRO:O	1:J:295:GLN:HB2	2.21	0.66
1:K:332:LEU:HB2	1:K:377:ARG:HB3	1.86	0.66
1:L:100:TYR:HB3	1:L:101:PRO:HD2	1.77	0.66
1:L:262:ASP:HB3	1:L:264:TYR:CE1	2.31	0.66
1:L:452:ARG:NH2	1:L:458:VAL:HG22	2.09	0.66
1:N:281:TYR:CD2	1:N:366:VAL:HG13	2.29	0.66
1:N:452:ARG:HG3	1:N:452:ARG:HH11	1.60	0.66
1:N:679:ARG:HG3	1:O:691:GLN:HE22	1.60	0.66
1:O:260:VAL:HB	1:O:263:VAL:HA	1.77	0.66
1:O:527:ILE:HD13	1:O:527:ILE:H	1.60	0.66
1:P:796:LYS:HA	1:P:799:THR:HG22	1.77	0.66
1:Q:284:ILE:HD13	1:Q:284:ILE:H	1.60	0.66
1:R:319:GLY:C	1:R:320:ILE:HD13	2.14	0.66
1:U:115:VAL:O	1:U:118:ASN:HB3	1.95	0.66
1:W:653:ALA:HB3	1:X:662:ILE:HD11	1.73	0.66
1:Y:229:LEU:O	1:Y:248:GLU:HA	1.95	0.66
1:Z:310:LEU:HD21	1:Z:316:LEU:HG	1.75	0.66
1:Z:19:LEU:HA	1:Z:32:PRO:HB3	1.77	0.66
1:A:294:ASN:ND2	1:A:313:GLY:HA3	2.65	0.66
1:C:221:LEU:HD21	1:C:256:THR:CG2	2.26	0.66
1:D:152:ILE:HD12	1:D:152:ILE:H	2.42	0.66
1:D:302:VAL:HG21	1:D:308:PHE:HE2	1.58	0.66
1:E:115:VAL:N	1:E:118:ASN:HD22	2.01	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:338:GLN:CB	1:F:339:PRO:HD3	2.24	0.66
1:H:122:HIS:O	1:H:159:VAL:N	2.37	0.66
1:G:766:ARG:HD2	1:H:768:MET:HE3	2.43	0.66
1:H:654:LEU:HD12	1:I:662:ILE:CD1	2.85	0.66
1:J:221:LEU:CD2	1:J:256:THR:HB	2.57	0.66
1:N:339:PRO:HG2	1:N:370:LYS:HE2	1.78	0.66
1:N:697:SER:HA	1:O:706:LEU:HD23	1.77	0.66
1:Q:220:ILE:C	1:Q:222:THR:H	1.99	0.66
1:R:10:ILE:HG23	1:R:11:PRO:HD2	1.77	0.66
1:W:19:LEU:HA	1:W:32:PRO:HB2	1.77	0.66
1:X:113:GLN:O	1:X:114:VAL:HG13	1.94	0.66
1:Y:19:LEU:HD23	1:Y:32:PRO:HB2	1.76	0.66
1:Y:227:LEU:HB2	1:Y:251:VAL:CG1	2.25	0.66
1:Z:106:GLU:O	1:Z:107:LYS:HD2	1.94	0.66
1:Z:332:LEU:HD21	1:Z:407:MET:HB3	1.75	0.66
1:Z:368:SER:HB3	1:Z:371:VAL:HG23	1.78	0.66
1:Z:600:ARG:NH1	1:Z:622:ALA:HB3	2.09	0.66
1:C:465:ASN:ND2	1:C:520:PRO:HD2	2.22	0.66
1:D:771:ILE:HD13	1:D:774:ARG:HH11	1.61	0.66
1:E:474:ARG:HG3	1:E:492:GLU:HB2	1.90	0.66
1:G:281:TYR:CE1	1:G:321:GLN:HB2	2.34	0.66
1:G:382:LEU:HB2	1:G:404:SER:O	1.95	0.66
1:G:517:LEU:O	1:G:545:TRP:HH2	1.79	0.66
1:H:653:ALA:HB3	1:I:662:ILE:CD1	2.22	0.66
1:J:729:ARG:HB2	1:J:729:ARG:NH1	2.10	0.66
1:K:67:ARG:CG	1:K:108:ASP:HB3	2.39	0.66
1:L:564:VAL:CG2	1:L:631:ASN:ND2	2.67	0.66
1:K:653:ALA:HB3	1:L:662:ILE:HD12	1.69	0.66
1:U:229:LEU:HD23	1:U:266:GLU:HA	1.77	0.66
1:U:36:ILE:HD12	1:U:98:PRO:HB3	1.76	0.66
1:W:191:VAL:HG12	1:W:194:GLU:HB2	1.77	0.66
1:B:781:VAL:HG21	1:C:786:GLN:OE1	1.95	0.66
1:C:481:VAL:HG11	1:C:487:VAL:HG11	1.75	0.66
1:D:174:LEU:HB2	1:D:198:VAL:HB	1.76	0.66
1:E:221:LEU:HD22	1:E:256:THR:CG2	2.58	0.66
1:E:377:ARG:NH1	1:E:408:LEU:O	2.27	0.66
1:E:56:ARG:HH11	1:E:99:LEU:HD23	2.32	0.66
1:E:734:ARG:HH21	1:E:735:ILE:HD13	4.85	0.66
1:F:273:ILE:HD13	1:F:316:LEU:HD11	1.77	0.66
1:H:14:HIS:HB3	1:H:56:ARG:HB2	1.76	0.66
1:H:727:GLU:HG3	1:I:735:ILE:HD13	1.76	0.66
1:K:597:ARG:O	1:K:601:MET:HB2	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:261:PRO:HD2	1:L:264:TYR:HB2	1.77	0.66
1:L:36:ILE:O	1:L:37:ARG:HG3	1.95	0.66
1:L:506:LYS:HE2	1:L:524:THR:O	2.23	0.66
1:L:759:LEU:HD22	1:M:768:MET:HG3	1.88	0.66
1:Q:60:ILE:HD13	1:Q:93:ALA:HA	1.77	0.66
1:R:228:HIS:NE2	1:R:312:PRO:HB3	2.11	0.66
1:S:327:SER:CB	1:S:331:GLY:HA3	2.24	0.66
1:S:9:ARG:NH1	1:S:36:ILE:HA	2.08	0.66
1:W:340:LEU:HD23	1:W:352:GLN:HA	1.76	0.66
1:X:381:PRO:CA	1:X:405:THR:HG22	2.26	0.66
1:A:28:VAL:HG12	1:A:30:VAL:HG23	1.78	0.66
1:B:130:GLU:HA	1:B:137:VAL:HG13	1.78	0.66
1:D:771:ILE:HA	1:D:774:ARG:HH11	1.72	0.66
1:F:221:LEU:HD22	1:F:256:THR:CG2	2.26	0.66
1:G:46:ALA:N	1:G:47:PRO:HD3	2.30	0.66
1:G:469:GLN:HB3	1:G:496:THR:CG2	2.25	0.66
1:G:8:ILE:HG22	1:G:40:ASN:ND2	2.10	0.66
1:H:380:ILE:HD12	1:H:406:TYR:O	2.30	0.66
1:H:419:LEU:CD1	1:H:494:GLN:HE21	2.08	0.66
1:H:419:LEU:HD12	1:H:494:GLN:HE21	1.60	0.66
1:I:382:LEU:HD13	1:I:387:GLY:HA2	1.94	0.66
1:J:340:LEU:HD23	1:J:352:GLN:HA	1.75	0.66
1:L:511:ARG:HH22	1:L:517:LEU:HD11	1.66	0.66
1:O:19:LEU:HA	1:O:32:PRO:HB3	1.76	0.66
1:P:273:ILE:HD11	1:P:308:PHE:CD2	2.28	0.66
1:S:67:ARG:O	1:S:91:ARG:HB2	1.96	0.66
1:T:3:THR:HG22	1:T:50:MET:CE	2.25	0.66
1:V:116:LEU:CB	1:V:117:PRO:HD2	2.22	0.66
1:V:5:GLU:CG	1:V:43:VAL:HG21	2.25	0.66
1:Y:230:ARG:HG2	1:Y:248:GLU:HG2	1.78	0.66
1:A:151:TYR:HD2	1:A:152:ILE:CD1	2.08	0.66
1:D:113:GLN:OE1	1:D:149:GLY:HA2	2.12	0.66
1:F:224:LYS:HA	1:F:272:PRO:HG3	1.78	0.66
1:G:60:ILE:HD12	1:G:60:ILE:H	1.61	0.66
1:G:653:ALA:HB3	1:H:662:ILE:CD1	2.41	0.66
1:H:729:ARG:HB2	1:H:729:ARG:NH1	2.18	0.66
1:K:382:LEU:HD13	1:K:387:GLY:HA2	1.81	0.66
1:K:407:MET:SD	1:K:407:MET:N	2.87	0.66
1:M:130:GLU:CB	1:M:136:LYS:HA	2.25	0.66
1:M:221:LEU:CD2	1:M:256:THR:HG21	2.21	0.66
1:M:579:VAL:HG13	1:M:599:ILE:CD1	2.25	0.66
1:O:273:ILE:HG23	1:O:310:LEU:HD11	1.77	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:123:LEU:HA	1:P:158:GLU:HA	1.77	0.66
1:P:734:ARG:HH21	1:P:735:ILE:HD13	1.60	0.66
1:Q:16:ILE:HA	1:Q:34:THR:OG1	1.95	0.66
1:R:377:ARG:NH1	1:R:408:LEU:O	2.28	0.66
1:V:337:LEU:HD22	1:V:357:TRP:HZ3	1.59	0.66
1:V:36:ILE:CD1	1:V:98:PRO:HB3	2.26	0.66
1:Y:328:GLU:HA	1:Y:362:PRO:HA	1.78	0.66
1:A:174:LEU:O	1:A:197:LEU:HA	1.96	0.66
1:A:14:HIS:HD1	1:A:36:ILE:HG22	1.60	0.66
1:A:662:ILE:CD1	1:M:653:ALA:CB	176.97	0.66
1:A:771:ILE:HD13	1:A:774:ARG:HH11	1.59	0.66
1:B:221:LEU:CD2	1:B:256:THR:CG2	2.74	0.66
1:B:508:PRO:O	1:B:509:HIS:HD2	1.78	0.66
1:A:759:LEU:HD11	1:B:764:LYS:HB3	1.78	0.66
1:C:109:ILE:CD1	1:C:153:PRO:HB2	2.26	0.66
1:C:120:ALA:O	1:C:161:GLU:HA	1.95	0.66
1:C:252:THR:O	1:C:254:GLN:N	2.71	0.66
1:C:527:ILE:HD11	1:C:539:LEU:CG	2.23	0.66
1:C:623:ARG:HG3	1:C:624:ASP:H	2.03	0.66
1:D:109:ILE:HD12	1:D:153:PRO:CB	2.28	0.66
1:E:221:LEU:HD22	1:E:256:THR:HG21	2.09	0.66
1:F:130:GLU:HB2	1:F:136:LYS:HA	1.77	0.66
1:F:262:ASP:HB3	1:F:264:TYR:CZ	2.30	0.66
1:I:221:LEU:HD21	1:I:256:THR:HG21	2.75	0.66
1:I:77:ILE:HG13	1:I:79:GLY:H	1.98	0.66
1:K:220:ILE:HD13	1:K:256:THR:HA	1.78	0.66
1:M:573:LYS:HE3	1:N:522:PHE:CZ	2.30	0.66
1:P:228:HIS:NE2	1:P:312:PRO:HB3	2.11	0.66
1:Q:245:THR:HG21	1:R:219:VAL:HG13	1.76	0.66
1:R:14:HIS:CB	1:R:56:ARG:CB	2.73	0.66
1:R:182:CYS:SG	1:R:208:VAL:HG21	2.35	0.66
1:R:472:ASP:HA	1:R:493:GLU:HB3	1.76	0.66
1:S:752:ALA:HA	1:S:755:THR:HG22	1.78	0.66
1:T:36:ILE:HG21	1:T:99:LEU:HD13	1.78	0.66
1:V:182:CYS:SG	1:V:208:VAL:CG2	2.84	0.66
1:X:28:VAL:HG12	1:X:30:VAL:HG23	1.78	0.66
1:B:662:ILE:O	1:B:666:THR:HB	1.95	0.66
1:C:340:LEU:HD23	1:C:352:GLN:HA	1.89	0.66
1:D:709:LEU:HD23	1:D:712:MET:HE1	2.50	0.66
1:E:501:SER:HB3	1:E:507:ARG:O	1.96	0.66
1:F:402:ILE:HD13	1:F:402:ILE:H	1.61	0.66
1:G:115:VAL:H	1:G:118:ASN:ND2	2.09	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:284:ILE:HD13	1:H:300:ARG:O	1.99	0.66
1:H:338:GLN:HB3	1:H:339:PRO:HD3	1.96	0.66
1:I:8:ILE:HD12	1:I:8:ILE:O	1.96	0.66
1:J:310:LEU:HD12	1:J:310:LEU:H	1.61	0.66
1:J:273:ILE:CD1	1:J:316:LEU:HD21	2.26	0.66
1:J:5:GLU:HA	1:J:7:ILE:CD1	3.99	0.66
1:K:190:ARG:O	1:K:191:VAL:HG23	2.12	0.66
1:L:399:ARG:HH11	1:L:399:ARG:HG2	1.99	0.66
1:P:284:ILE:HD13	1:P:284:ILE:N	2.10	0.66
1:R:22:ASN:ND2	1:S:39:ASP:HB3	2.11	0.66
1:R:244:ARG:HH11	1:S:221:LEU:HD11	1.61	0.66
1:S:116:LEU:HB3	1:S:117:PRO:CD	2.25	0.66
1:S:752:ALA:O	1:S:756:GLU:HB2	1.96	0.66
1:V:45:PHE:HB3	1:V:47:PRO:HD2	1.78	0.66
1:W:380:ILE:HD12	1:W:406:TYR:O	1.96	0.66
1:Y:123:LEU:CG	1:Y:143:TRP:HB2	2.26	0.66
1:Y:419:LEU:HD22	1:Y:422:GLY:H	1.59	0.66
1:A:8:ILE:O	1:A:8:ILE:HD12	1.96	0.66
1:B:60:ILE:H	1:B:60:ILE:HD13	2.92	0.66
1:C:122:HIS:O	1:C:159:VAL:N	2.26	0.66
1:E:459:SER:CB	1:E:488:THR:HG22	2.23	0.66
1:H:239:ARG:NH2	1:H:257:GLU:HG2	2.11	0.66
1:H:708:GLU:HG3	1:I:716:VAL:HG11	1.77	0.66
1:J:36:ILE:HD13	1:J:36:ILE:C	2.16	0.66
1:L:221:LEU:HD22	1:L:256:THR:HB	1.97	0.66
1:M:123:LEU:HD11	1:M:143:TRP:CD1	2.31	0.66
1:M:452:ARG:HG3	1:M:452:ARG:NH1	2.09	0.66
1:M:490:ASP:CG	1:M:491:PRO:HD2	2.16	0.66
1:N:384:GLN:NE2	1:N:384:GLN:H	1.93	0.66
1:R:100:TYR:HB3	1:R:101:PRO:HD2	1.78	0.66
1:R:45:PHE:HB3	1:R:47:PRO:HD2	1.76	0.66
1:U:771:ILE:HD13	1:U:774:ARG:NH1	2.11	0.66
1:W:224:LYS:HA	1:W:272:PRO:HG3	1.77	0.66
1:X:19:LEU:HA	1:X:32:PRO:HB2	1.76	0.66
1:X:501:SER:HB3	1:X:507:ARG:O	1.96	0.66
1:X:495:PHE:HB3	1:X:514:LEU:HD11	1.77	0.66
1:Z:18:VAL:N	1:Z:48:VAL:HG13	2.08	0.66
1:Y:653:ALA:HB1	1:Z:662:ILE:HD12	1.76	0.66
1:B:230:ARG:HH11	1:B:230:ARG:HB3	1.69	0.66
1:D:175:ARG:HB2	1:D:213:LEU:O	1.96	0.66
1:F:389:TYR:CE1	1:F:457:VAL:HA	2.30	0.66
1:F:529:ILE:HD12	1:F:537:LEU:HB2	1.78	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:331:GLY:O	1:G:360:ARG:HB2	2.53	0.66
1:H:1:MET:HE1	1:H:47:PRO:HB3	1.77	0.66
1:I:130:GLU:HB2	1:I:136:LYS:HA	2.25	0.66
1:K:394:LYS:HG2	1:L:329:GLN:CG	2.38	0.66
1:M:802:LEU:HD12	1:M:806:THR:HG22	1.80	0.66
1:N:719:THR:HG22	1:O:728:SER:HA	1.77	0.66
1:P:490:ASP:CG	1:P:491:PRO:HD2	2.15	0.66
1:S:109:ILE:HD12	1:S:153:PRO:HB2	1.76	0.66
1:S:224:LYS:O	1:S:272:PRO:HD3	1.96	0.66
1:S:490:ASP:H	1:S:493:GLU:HG2	1.61	0.66
1:T:182:CYS:SG	1:T:208:VAL:CG2	2.84	0.66
1:V:481:VAL:HG11	1:V:487:VAL:HG13	1.77	0.66
1:V:762:VAL:O	1:V:766:ARG:HB2	1.96	0.66
1:X:273:ILE:CG2	1:X:310:LEU:HD11	2.26	0.66
1:Y:330:GLN:HB3	1:Y:379:ALA:HB3	1.77	0.66
1:B:398:VAL:N	1:C:384:GLN:OE1	2.49	0.65
1:D:526:VAL:HG22	1:D:540:GLN:HG2	1.88	0.65
1:E:380:ILE:HD12	1:E:406:TYR:O	1.96	0.65
1:F:172:GLN:HG2	1:F:216:VAL:HG12	1.78	0.65
1:F:236:ARG:HH11	1:F:236:ARG:HB3	1.99	0.65
1:F:227:LEU:HB2	1:F:251:VAL:HG13	1.79	0.65
1:I:120:ALA:HB3	1:I:162:ILE:HG13	1.78	0.65
1:I:227:LEU:O	1:I:250:LEU:HA	2.00	0.65
1:K:452:ARG:HG3	1:K:452:ARG:HH11	1.61	0.65
1:L:154:GLN:CG	1:L:155:LYS:HE3	2.26	0.65
1:L:224:LYS:O	1:L:272:PRO:HD3	2.25	0.65
1:L:252:THR:H	1:L:254:GLN:HE22	1.83	0.65
1:N:469:GLN:HB3	1:N:496:THR:CG2	2.23	0.65
1:Q:408:LEU:HD21	1:Q:414:LEU:CD1	2.26	0.65
1:Q:697:SER:HA	1:R:706:LEU:HD23	1.77	0.65
1:T:90:ILE:HD13	1:T:90:ILE:H	1.61	0.65
1:V:557:GLU:O	1:V:560:LYS:HB2	1.97	0.65
1:W:19:LEU:HA	1:W:32:PRO:HB3	1.77	0.65
1:B:113:GLN:HG2	1:B:150:THR:HB	1.78	0.65
1:B:395:THR:HB	1:B:397:LYS:H	1.60	0.65
1:B:65:VAL:HG12	1:B:110:THR:HG22	1.78	0.65
1:B:813:ALA:O	1:B:815:PRO:HD3	1.96	0.65
1:C:221:LEU:HD22	1:C:256:THR:CG2	2.35	0.65
1:H:224:LYS:O	1:H:272:PRO:HD3	1.97	0.65
1:H:16:ILE:HB	1:H:51:VAL:HB	1.78	0.65
1:I:64:PRO:HA	1:I:111:PRO:HD2	1.79	0.65
1:I:14:HIS:O	1:I:53:VAL:HB	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:113:GLN:HG2	1:J:150:THR:HB	1.76	0.65
1:J:73:VAL:N	1:J:84:ARG:HB2	2.14	0.65
1:K:65:VAL:HA	1:K:110:THR:CB	2.25	0.65
1:L:19:LEU:HA	1:L:32:PRO:CB	2.25	0.65
1:M:288:MET:HE1	1:M:312:PRO:HG2	1.76	0.65
1:L:697:SER:HA	1:M:706:LEU:HD23	1.77	0.65
1:N:24:ASN:HD22	1:N:30:VAL:HB	1.62	0.65
1:O:327:SER:HB2	1:O:331:GLY:HA2	1.77	0.65
1:S:332:LEU:HD21	1:S:407:MET:HB3	1.76	0.65
1:U:130:GLU:HA	1:U:137:VAL:H	1.61	0.65
1:U:382:LEU:HD11	1:U:388:ILE:HD12	1.77	0.65
1:V:84:ARG:NH2	1:V:101:PRO:HD2	2.11	0.65
1:V:337:LEU:HG	1:V:354:GLY:H	1.60	0.65
1:X:1:MET:HE1	1:X:47:PRO:HB3	1.77	0.65
1:X:600:ARG:NH1	1:X:622:ALA:HB3	2.11	0.65
1:A:154:GLN:HG3	1:A:155:LYS:HG3	1.85	0.65
1:B:100:TYR:HB3	1:B:101:PRO:CD	2.32	0.65
1:B:130:GLU:CB	1:B:136:LYS:HA	2.26	0.65
1:C:501:SER:HB3	1:C:507:ARG:O	1.97	0.65
1:C:762:VAL:O	1:C:766:ARG:HB2	1.96	0.65
1:E:414:LEU:HB3	1:E:455:THR:HG21	1.78	0.65
1:H:164:GLN:HE21	1:H:204:TYR:HB2	1.62	0.65
1:I:54:PRO:HB2	1:I:55:PRO:CD	2.33	0.65
1:K:354:GLY:HA3	1:L:328:GLU:HG3	6.25	0.65
1:L:123:LEU:HG	1:L:143:TRP:HB2	1.77	0.65
1:N:228:HIS:NE2	1:N:312:PRO:HB3	2.11	0.65
1:P:485:GLU:HG2	1:P:486:LEU:H	1.62	0.65
1:Q:221:LEU:CD2	1:Q:256:THR:HG21	2.27	0.65
1:T:227:LEU:HB2	1:T:251:VAL:CG1	2.27	0.65
1:U:144:LEU:H	1:U:144:LEU:HD12	1.62	0.65
1:U:273:ILE:HG21	1:U:316:LEU:HD11	1.77	0.65
1:U:326:LEU:CD2	1:U:333:LEU:HG	2.24	0.65
1:V:239:ARG:HH21	1:V:257:GLU:HG2	1.61	0.65
1:V:332:LEU:HD21	1:V:407:MET:HB2	1.78	0.65
1:X:19:LEU:HA	1:X:32:PRO:HB3	1.79	0.65
1:Y:109:ILE:HD12	1:Y:153:PRO:CG	2.27	0.65
1:Y:251:VAL:CG2	1:Y:254:GLN:HE21	2.10	0.65
1:Z:224:LYS:HA	1:Z:272:PRO:HG3	1.78	0.65
1:Z:54:PRO:HB2	1:Z:55:PRO:CD	2.19	0.65
1:A:407:MET:SD	1:A:407:MET:N	3.04	0.65
1:E:33:LYS:HA	1:E:101:PRO:HG3	1.78	0.65
1:F:771:ILE:HD12	1:F:774:ARG:HH12	1.60	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:799:THR:HG21	1:G:801:ALA:HB1	1.77	0.65
1:G:109:ILE:HD12	1:G:153:PRO:HB3	1.78	0.65
1:H:415:TRP:CZ3	1:H:417:LYS:HB3	2.58	0.65
1:I:70:GLN:HB3	1:I:104:VAL:H	1.61	0.65
1:I:481:VAL:HG11	1:I:487:VAL:CG1	2.37	0.65
1:J:288:MET:HE1	1:J:294:ASN:ND2	2.10	0.65
1:J:5:GLU:HB2	1:J:7:ILE:HD13	4.96	0.65
1:K:252:THR:O	1:K:254:GLN:N	2.30	0.65
1:K:527:ILE:H	1:K:527:ILE:HD13	1.61	0.65
1:M:697:SER:HA	1:N:706:LEU:HD23	1.77	0.65
1:M:734:ARG:HH21	1:M:735:ILE:HD13	1.61	0.65
1:O:115:VAL:O	1:O:118:ASN:HB3	1.97	0.65
1:T:227:LEU:CB	1:T:251:VAL:HG12	2.26	0.65
1:T:471:TYR:HD1	1:T:478:ALA:HB2	1.61	0.65
1:Y:121:LEU:HB2	1:Y:145:PHE:HB3	1.78	0.65
1:Y:813:ALA:O	1:Y:815:PRO:HD3	1.96	0.65
1:A:268:LEU:HD13	1:A:269:GLY:H	1.61	0.65
1:A:395:THR:HG21	1:A:397:LYS:HE2	2.99	0.65
1:A:83:LEU:HD12	1:A:86:ALA:HB3	1.79	0.65
1:B:4:GLU:OE2	1:B:6:ALA:HB2	1.95	0.65
1:C:175:ARG:HG3	1:C:215:LEU:HD23	1.77	0.65
1:D:377:ARG:NH1	1:D:408:LEU:O	2.28	0.65
1:G:180:LYS:HD2	1:G:208:VAL:HG12	1.95	0.65
1:H:123:LEU:HA	1:H:158:GLU:HA	1.79	0.65
1:H:276:LEU:HD13	1:H:278:PRO:HD2	1.97	0.65
1:H:32:PRO:HG2	1:I:11:PRO:HG3	1.78	0.65
1:I:327:SER:HB2	1:I:331:GLY:HA2	1.75	0.65
1:I:529:ILE:HD11	1:I:537:LEU:HB2	1.91	0.65
1:I:804:PRO:O	1:I:807:ILE:HD11	1.95	0.65
1:J:16:ILE:CD1	1:J:34:THR:HG21	2.45	0.65
1:L:113:GLN:O	1:L:114:VAL:HG13	1.96	0.65
1:L:494:GLN:HA	1:L:494:GLN:NE2	2.58	0.65
1:P:283:VAL:HG22	1:P:301:VAL:CG1	2.23	0.65
1:Q:46:ALA:N	1:Q:47:PRO:CD	2.60	0.65
1:R:564:VAL:HG21	1:R:631:ASN:ND2	2.12	0.65
1:T:115:VAL:N	1:T:118:ASN:HD22	1.92	0.65
1:T:523:PHE:CE1	1:T:568:VAL:HG12	2.31	0.65
1:V:154:GLN:HG3	1:V:155:LYS:HG3	1.77	0.65
1:W:154:GLN:HG3	1:W:155:LYS:HG3	1.77	0.65
1:W:332:LEU:HB2	1:W:377:ARG:HB3	1.78	0.65
1:A:85:HIS:NE2	1:A:102:GLY:HA3	2.12	0.65
1:B:597:ARG:HG3	1:B:600:ARG:HH21	1.89	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:255:ASP:OD2	1:C:257:GLU:HB3	1.97	0.65
1:E:327:SER:O	1:E:328:GLU:HB3	1.96	0.65
1:F:109:ILE:HD12	1:F:153:PRO:HB2	1.78	0.65
1:F:115:VAL:O	1:F:118:ASN:HB3	1.97	0.65
1:G:152:ILE:N	1:G:152:ILE:HD13	2.48	0.65
1:G:380:ILE:CD1	1:G:388:ILE:HG12	2.26	0.65
1:I:452:ARG:HH11	1:I:452:ARG:HG3	1.59	0.65
1:I:485:GLU:HG2	1:I:486:LEU:H	2.10	0.65
1:I:568:VAL:HG23	1:I:569:GLY:H	1.62	0.65
1:J:224:LYS:O	1:J:272:PRO:HD3	2.24	0.65
1:I:745:LYS:CG	1:J:753:ILE:CD1	3.09	0.65
1:K:338:GLN:OE1	1:L:278:PRO:HB2	1.95	0.65
1:K:485:GLU:HG2	1:K:486:LEU:H	1.61	0.65
1:K:58:TYR:CD1	1:K:98:PRO:HA	2.39	0.65
1:K:61:VAL:HG13	1:K:65:VAL:HG23	1.97	0.65
1:L:130:GLU:HA	1:L:137:VAL:H	2.06	0.65
1:L:175:ARG:NE	1:L:263:VAL:HG22	2.18	0.65
1:L:571:ALA:O	1:L:575:ILE:HG12	1.95	0.65
1:L:536:ARG:HB2	1:L:646:VAL:HB	1.77	0.65
1:N:551:ASN:HB3	1:N:554:ASP:HB3	1.78	0.65
1:P:182:CYS:SG	1:P:208:VAL:CG2	2.84	0.65
1:Q:653:ALA:HB1	1:R:662:ILE:HD11	1.75	0.65
1:S:54:PRO:CB	1:S:55:PRO:HD3	2.16	0.65
1:T:220:ILE:HD13	1:T:251:VAL:HG13	1.78	0.65
1:U:382:LEU:H	1:U:405:THR:HG22	1.61	0.65
1:U:469:GLN:HB3	1:U:496:THR:HG21	1.79	0.65
1:X:175:ARG:HH21	1:X:263:VAL:HG13	1.61	0.65
1:X:190:ARG:O	1:X:191:VAL:HG23	1.97	0.65
1:B:418:GLU:OE2	1:B:452:ARG:NH1	2.67	0.65
1:D:113:GLN:HG2	1:D:150:THR:HB	1.79	0.65
1:D:175:ARG:NE	1:D:263:VAL:HG22	2.11	0.65
1:E:332:LEU:HD23	1:E:358:LEU:HD11	1.98	0.65
1:H:517:LEU:HD12	1:H:517:LEU:H	1.87	0.65
1:I:72:SER:HB3	1:I:84:ARG:HH21	1.78	0.65
1:I:90:ILE:O	1:I:90:ILE:HD12	1.96	0.65
1:J:19:LEU:HA	1:J:32:PRO:HB3	1.78	0.65
1:L:279:ARG:O	1:L:323:VAL:N	2.23	0.65
1:L:65:VAL:HA	1:L:110:THR:HA	1.78	0.65
1:M:526:VAL:HG22	1:M:540:GLN:HG2	1.97	0.65
1:R:67:ARG:CG	1:R:108:ASP:HB3	2.27	0.65
1:R:261:PRO:HD2	1:R:264:TYR:HB2	1.79	0.65
1:T:159:VAL:HG12	1:T:160:VAL:HG22	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:452:ARG:HH12	1:U:454:LYS:HA	1.62	0.65
1:T:653:ALA:HB3	1:U:662:ILE:CD1	2.27	0.65
1:Y:123:LEU:HG	1:Y:143:TRP:HB2	1.77	0.65
1:B:164:GLN:HB3	1:B:204:TYR:HA	1.79	0.65
1:C:60:ILE:N	1:C:60:ILE:HD13	3.61	0.65
1:D:109:ILE:CD1	1:D:153:PRO:HB2	2.27	0.65
1:E:221:LEU:HD21	1:E:256:THR:HG21	2.49	0.65
1:E:1:MET:HE1	1:E:47:PRO:HB3	1.78	0.65
1:E:3:THR:HG22	1:E:50:MET:HE2	2.47	0.65
1:E:54:PRO:HB2	1:E:55:PRO:CD	2.14	0.65
1:G:65:VAL:CG1	1:G:110:THR:HG22	2.27	0.65
1:I:660:LEU:HA	1:I:663:GLU:HB3	1.89	0.65
1:J:184:ASP:HB3	1:J:187:GLY:O	1.97	0.65
1:J:354:GLY:C	1:K:328:GLU:HG3	4.45	0.65
1:K:807:ILE:CD1	1:L:806:THR:HG21	2.27	0.65
1:L:227:LEU:O	1:L:250:LEU:HA	1.96	0.65
1:L:29:GLU:O	1:L:84:ARG:HD3	1.97	0.65
1:P:575:ILE:HD11	1:P:628:PHE:HZ	1.62	0.65
1:S:46:ALA:N	1:S:47:PRO:CD	2.60	0.65
1:T:152:ILE:HD11	1:T:156:GLU:OE2	1.96	0.65
1:T:18:VAL:H	1:T:48:VAL:CG1	2.08	0.65
1:U:16:ILE:HA	1:U:34:THR:OG1	1.97	0.65
1:W:154:GLN:HG3	1:W:155:LYS:N	2.12	0.65
1:X:36:ILE:HG21	1:X:99:LEU:CD1	2.26	0.65
1:Z:542:ALA:HB3	1:Z:639:ASP:HB2	1.79	0.65
1:C:360:ARG:CD	1:C:407:MET:HG2	2.27	0.65
1:C:60:ILE:H	1:C:60:ILE:HD12	1.59	0.65
1:D:123:LEU:HA	1:D:158:GLU:HA	1.77	0.65
1:D:284:ILE:HD13	1:D:284:ILE:H	1.62	0.65
1:D:16:ILE:HA	1:D:34:THR:OG1	1.96	0.65
1:D:384:GLN:N	1:D:384:GLN:HE21	2.02	0.65
1:D:580:ARG:HH22	1:E:595:SER:HB2	1.68	0.65
1:G:185:ARG:HH22	1:G:207:ALA:HB3	1.79	0.65
1:G:239:ARG:NH2	1:G:257:GLU:HG2	2.08	0.65
1:G:766:ARG:HG3	1:H:772:TYR:CD1	2.32	0.65
1:H:227:LEU:CB	1:H:251:VAL:HG12	2.54	0.65
1:H:340:LEU:HD23	1:H:352:GLN:HA	2.06	0.65
1:I:55:PRO:O	1:I:56:ARG:HG2	1.96	0.65
1:J:113:GLN:OE1	1:J:149:GLY:HA2	2.12	0.65
1:K:100:TYR:HB3	1:K:101:PRO:CD	2.26	0.65
1:K:151:TYR:CD2	1:K:152:ILE:HD13	3.39	0.65
1:K:13:TYR:HB3	1:K:54:PRO:O	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:662:ILE:CD1	1:M:653:ALA:HB1	176.80	0.65
1:O:14:HIS:CB	1:O:56:ARG:HB2	2.26	0.65
1:O:109:ILE:HD12	1:O:153:PRO:CB	2.26	0.65
1:O:384:GLN:H	1:O:384:GLN:NE2	1.94	0.65
1:O:452:ARG:HH22	1:O:458:VAL:HG22	1.61	0.65
1:Q:452:ARG:HH12	1:Q:454:LYS:HA	1.62	0.65
1:R:109:ILE:HD12	1:R:153:PRO:HB2	1.78	0.65
1:T:542:ALA:HB3	1:T:639:ASP:HB2	1.78	0.65
1:V:123:LEU:HD11	1:V:143:TRP:HD1	1.61	0.65
1:V:5:GLU:HG2	1:V:43:VAL:CG2	2.26	0.65
1:W:337:LEU:HG	1:W:354:GLY:H	1.60	0.65
1:X:116:LEU:HB3	1:X:117:PRO:CD	2.23	0.65
1:X:332:LEU:HD23	1:X:358:LEU:HD11	1.79	0.65
1:X:57:HIS:O	1:X:99:LEU:HD11	1.97	0.65
1:A:654:LEU:CD1	1:B:662:ILE:CD1	2.74	0.65
1:B:9:ARG:NH1	1:B:36:ILE:HA	2.16	0.65
1:C:167:VAL:H	1:C:202:GLY:HA2	1.61	0.65
1:D:469:GLN:HB3	1:D:496:THR:CG2	2.35	0.65
1:F:239:ARG:HH21	1:F:257:GLU:HG2	1.62	0.65
1:G:130:GLU:HA	1:G:137:VAL:H	2.10	0.65
1:G:122:HIS:HB3	1:G:159:VAL:HB	1.79	0.65
1:G:507:ARG:HB2	1:G:510:ALA:HB2	3.07	0.65
1:M:551:ASN:HB3	1:M:554:ASP:HB3	1.79	0.65
1:S:175:ARG:NE	1:S:263:VAL:HG22	2.12	0.65
1:T:184:ASP:HB2	1:T:189:GLY:O	1.97	0.65
1:T:326:LEU:HD21	1:T:333:LEU:HG	1.78	0.65
1:T:330:GLN:HE22	1:T:360:ARG:HD2	1.62	0.65
1:U:121:LEU:HD12	1:U:145:PHE:CD2	2.32	0.65
1:V:502:ALA:HB3	1:V:510:ALA:HB3	1.79	0.65
1:W:152:ILE:H	1:W:152:ILE:CD1	2.10	0.65
1:W:19:LEU:HD23	1:W:32:PRO:HB2	1.78	0.65
1:W:30:VAL:HG22	1:W:74:LEU:HG	1.78	0.65
1:C:53:VAL:CG1	1:C:56:ARG:HG3	2.28	0.64
1:D:523:PHE:CE1	1:D:568:VAL:HG12	2.41	0.64
1:E:123:LEU:HG	1:E:143:TRP:HB2	1.83	0.64
1:E:130:GLU:H	1:E:137:VAL:HG13	2.42	0.64
1:F:14:HIS:ND1	1:F:36:ILE:HG22	2.78	0.64
1:G:9:ARG:NH1	1:G:36:ILE:HA	2.16	0.64
1:H:167:VAL:HG22	1:H:201:VAL:HA	2.23	0.64
1:J:251:VAL:HA	1:J:254:GLN:NE2	2.11	0.64
1:K:194:GLU:HG2	1:K:195:GLU:H	1.62	0.64
1:K:14:HIS:HB3	1:K:56:ARG:CB	2.25	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:597:ARG:HG3	1:K:600:ARG:NH2	2.39	0.64
1:L:144:LEU:H	1:L:144:LEU:HD12	1.62	0.64
1:M:579:VAL:HG13	1:M:599:ILE:HD12	1.79	0.64
1:N:354:GLY:C	1:O:328:GLU:HG3	2.17	0.64
1:O:326:LEU:CD2	1:O:333:LEU:HG	2.26	0.64
1:O:1:MET:HE1	1:O:47:PRO:HB3	1.79	0.64
1:Q:382:LEU:N	1:Q:405:THR:HG22	2.12	0.64
1:R:184:ASP:HB2	1:R:189:GLY:O	1.96	0.64
1:R:803:GLY:HA3	1:R:806:THR:HB	1.79	0.64
1:V:283:VAL:HG22	1:V:301:VAL:CG1	2.27	0.64
1:Z:120:ALA:CB	1:Z:164:GLN:HE22	2.10	0.64
1:B:327:SER:HB2	1:B:331:GLY:N	2.12	0.64
1:B:507:ARG:HB2	1:B:510:ALA:HB2	1.98	0.64
1:D:481:VAL:HG11	1:D:487:VAL:HG11	1.86	0.64
1:D:571:ALA:O	1:D:575:ILE:HG13	1.96	0.64
1:G:180:LYS:C	1:G:182:CYS:N	2.92	0.64
1:H:273:ILE:HG23	1:H:310:LEU:HD11	2.22	0.64
1:I:526:VAL:HG22	1:I:540:GLN:HG2	2.15	0.64
1:K:58:TYR:CG	1:K:98:PRO:HA	2.75	0.64
1:L:180:LYS:C	1:L:182:CYS:N	2.51	0.64
1:L:606:PHE:HA	1:L:622:ALA:HA	1.79	0.64
1:M:221:LEU:CD2	1:M:256:THR:HB	2.96	0.64
1:M:46:ALA:N	1:M:47:PRO:CD	2.60	0.64
1:M:90:ILE:CD1	1:M:90:ILE:N	3.22	0.64
1:O:19:LEU:HD23	1:O:32:PRO:HB2	1.79	0.64
1:O:4:GLU:OE2	1:O:6:ALA:HB2	1.97	0.64
1:P:19:LEU:HA	1:P:32:PRO:CB	2.26	0.64
1:Q:1:MET:HE3	1:Q:47:PRO:HB3	1.79	0.64
1:R:196:TRP:HE3	1:R:196:TRP:HA	1.61	0.64
1:R:227:LEU:HB2	1:R:251:VAL:CG1	2.27	0.64
1:R:338:GLN:HB2	1:R:339:PRO:HD3	1.79	0.64
1:T:495:PHE:HB3	1:T:514:LEU:HD11	1.80	0.64
1:U:221:LEU:HD22	1:U:256:THR:HG21	1.78	0.64
1:V:734:ARG:HH21	1:V:735:ILE:CD1	2.10	0.64
1:X:338:GLN:CB	1:X:339:PRO:HD3	2.28	0.64
1:B:573:LYS:HE3	1:C:522:PHE:CZ	2.52	0.64
1:B:777:LEU:HD11	1:C:783:LYS:CB	2.25	0.64
1:B:85:HIS:NE2	1:B:102:GLY:HA3	2.35	0.64
1:C:172:GLN:HG2	1:C:216:VAL:HG12	2.69	0.64
1:C:36:ILE:O	1:C:36:ILE:HD13	1.97	0.64
1:D:474:ARG:CG	1:D:492:GLU:HB2	2.32	0.64
1:G:235:PHE:CZ	1:G:264:TYR:CE1	3.20	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:175:ARG:HE	1:I:263:VAL:HG22	1.67	0.64
1:J:506:LYS:HE2	1:J:524:THR:O	2.22	0.64
1:J:245:THR:OG1	1:K:170:GLN:NE2	2.31	0.64
1:L:130:GLU:N	1:L:137:VAL:HG13	2.97	0.64
1:L:18:VAL:N	1:L:48:VAL:HG13	2.21	0.64
1:M:46:ALA:N	1:M:47:PRO:HD3	2.13	0.64
1:N:229:LEU:HD23	1:N:266:GLU:HA	1.80	0.64
1:M:394:LYS:HZ2	1:N:329:GLN:HG3	1.60	0.64
1:N:717:GLU:O	1:N:721:ASN:HB2	1.98	0.64
1:P:382:LEU:HD13	1:P:387:GLY:HA2	1.78	0.64
1:S:194:GLU:HG2	1:S:195:GLU:H	1.62	0.64
1:T:337:LEU:HD22	1:T:357:TRP:CZ3	2.32	0.64
1:T:332:LEU:HD23	1:T:358:LEU:HD11	1.79	0.64
1:U:196:TRP:CE3	1:U:196:TRP:HA	2.32	0.64
1:U:384:GLN:NE2	1:U:384:GLN:H	1.94	0.64
1:V:115:VAL:HB	1:V:148:PRO:HA	1.79	0.64
1:Z:176:LEU:HD13	1:Z:209:PHE:CD1	2.31	0.64
1:A:340:LEU:HG	1:A:353:ALA:HB2	1.80	0.64
1:A:68:ASP:O	1:A:106:GLU:HB2	1.97	0.64
1:B:121:LEU:HD12	1:B:145:PHE:HD2	1.61	0.64
1:B:182:CYS:SG	1:B:208:VAL:CG2	2.85	0.64
1:B:8:ILE:HD12	1:B:8:ILE:O	1.96	0.64
1:C:676:GLU:OE1	1:C:676:GLU:HA	2.01	0.64
1:F:16:ILE:HA	1:F:34:THR:OG1	1.97	0.64
1:G:235:PHE:CE1	1:G:264:TYR:CE1	3.03	0.64
1:I:14:HIS:ND1	1:I:36:ILE:HG22	2.12	0.64
1:I:419:LEU:CG	1:I:420:PRO:HD2	2.22	0.64
1:K:623:ARG:CG	1:K:624:ASP:H	2.10	0.64
1:L:252:THR:O	1:L:254:GLN:N	2.30	0.64
1:L:77:ILE:CG2	1:L:78:THR:N	2.60	0.64
1:M:115:VAL:O	1:M:118:ASN:HB3	2.07	0.64
1:M:587:THR:HG23	1:M:590:ASP:CB	2.27	0.64
1:N:337:LEU:HD22	1:N:357:TRP:CZ3	2.29	0.64
1:N:36:ILE:HD13	1:N:36:ILE:O	1.96	0.64
1:P:14:HIS:ND1	1:P:36:ILE:HG22	2.12	0.64
1:P:527:ILE:HD11	1:P:539:LEU:HB2	1.80	0.64
1:V:327:SER:HB2	1:V:331:GLY:HA3	1.80	0.64
1:W:109:ILE:CD1	1:W:153:PRO:CB	2.74	0.64
1:X:115:VAL:N	1:X:118:ASN:HD22	1.90	0.64
1:X:5:GLU:HG2	1:X:43:VAL:HG21	1.78	0.64
1:Y:65:VAL:HG12	1:Y:110:THR:HG22	1.79	0.64
1:Y:332:LEU:HD23	1:Y:358:LEU:HD11	1.79	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:70:GLN:HB3	1:Y:104:VAL:N	2.11	0.64
1:A:384:GLN:H	1:A:384:GLN:HE21	1.45	0.64
1:C:5:GLU:CG	1:C:43:VAL:HG21	2.39	0.64
1:D:36:ILE:HD12	1:D:36:ILE:C	3.62	0.64
1:D:45:PHE:HB3	1:D:47:PRO:HD2	1.81	0.64
1:D:551:ASN:HB3	1:D:554:ASP:CB	2.74	0.64
1:E:8:ILE:H	1:E:8:ILE:HD13	1.62	0.64
1:G:273:ILE:HD13	1:G:316:LEU:HD21	2.61	0.64
1:G:481:VAL:HG11	1:G:487:VAL:CG1	2.27	0.64
1:H:18:VAL:N	1:H:48:VAL:HG13	2.18	0.64
1:H:73:VAL:H	1:H:84:ARG:HB2	1.63	0.64
1:I:14:HIS:HB3	1:I:56:ARG:CG	2.23	0.64
1:I:284:ILE:HD13	1:I:284:ILE:N	2.16	0.64
1:I:43:VAL:HG12	1:I:45:PHE:O	2.25	0.64
1:I:796:LYS:HA	1:I:799:THR:HG22	2.21	0.64
1:I:8:ILE:HG22	1:I:40:ASN:ND2	2.25	0.64
1:J:180:LYS:C	1:J:182:CYS:N	2.49	0.64
1:I:476:LYS:CE	1:J:485:GLU:HG3	2.78	0.64
1:K:227:LEU:HD13	1:K:229:LEU:HD21	1.80	0.64
1:L:168:ILE:HD12	1:L:172:GLN:OE1	5.07	0.64
1:L:294:ASN:ND2	1:L:313:GLY:HA3	2.12	0.64
1:M:166:THR:HA	1:M:202:GLY:HA2	1.80	0.64
1:M:527:ILE:HD11	1:M:539:LEU:HG	4.14	0.64
1:Q:109:ILE:HD12	1:Q:153:PRO:CB	2.28	0.64
1:S:13:TYR:O	1:S:36:ILE:HG12	1.98	0.64
1:S:251:VAL:HG23	1:S:254:GLN:NE2	2.12	0.64
1:X:120:ALA:O	1:X:161:GLU:HA	1.98	0.64
1:Y:106:GLU:O	1:Y:107:LYS:HD2	1.96	0.64
1:A:174:LEU:CB	1:A:198:VAL:HB	2.27	0.64
1:A:338:GLN:NE2	1:B:279:ARG:HD3	3.23	0.64
1:C:8:ILE:HG22	1:C:40:ASN:ND2	2.30	0.64
1:E:185:ARG:HG3	1:E:206:PRO:CB	2.26	0.64
1:E:802:LEU:HD12	1:E:806:THR:HG22	1.83	0.64
1:F:474:ARG:HG3	1:F:492:GLU:HB2	1.87	0.64
1:G:152:ILE:H	1:G:152:ILE:HD12	2.44	0.64
1:G:109:ILE:CD1	1:G:153:PRO:CB	2.75	0.64
1:G:227:LEU:HB2	1:G:251:VAL:HG13	1.79	0.64
1:G:380:ILE:HD12	1:G:406:TYR:O	4.78	0.64
1:I:14:HIS:HB3	1:I:56:ARG:HB2	2.31	0.64
1:I:239:ARG:NH2	1:I:257:GLU:HG2	2.13	0.64
1:I:328:GLU:HA	1:I:328:GLU:OE1	2.13	0.64
1:I:762:VAL:O	1:I:766:ARG:HB2	2.26	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:46:ALA:N	1:K:47:PRO:CD	2.60	0.64
1:L:180:LYS:C	1:L:182:CYS:H	1.99	0.64
1:M:113:GLN:OE1	1:M:149:GLY:HA2	1.98	0.64
1:M:16:ILE:HB	1:M:51:VAL:HB	1.90	0.64
1:M:759:LEU:HD21	1:N:765:VAL:HG22	1.80	0.64
1:N:199:ARG:HH21	1:N:258:ALA:HB3	1.62	0.64
1:R:154:GLN:CG	1:R:155:LYS:HE3	2.26	0.64
1:R:601:MET:HG2	1:R:622:ALA:CB	2.25	0.64
1:Q:653:ALA:HB1	1:R:662:ILE:HD12	1.80	0.64
1:S:154:GLN:HG3	1:S:155:LYS:HG3	1.79	0.64
1:X:183:PHE:HD2	1:X:184:ASP:N	1.95	0.64
1:A:777:LEU:HD11	1:B:783:LYS:HB2	1.96	0.64
1:C:8:ILE:HD12	1:C:8:ILE:O	1.98	0.64
1:D:120:ALA:HB3	1:D:162:ILE:HG13	1.80	0.64
1:F:19:LEU:HA	1:F:32:PRO:HB2	1.80	0.64
1:F:335:LYS:NZ	1:F:335:LYS:HB2	2.13	0.64
1:F:36:ILE:HG21	1:F:99:LEU:CD1	2.34	0.64
1:G:120:ALA:HB3	1:G:162:ILE:HG13	1.79	0.64
1:F:649:ARG:HH21	1:G:655:GLN:HG2	1.97	0.64
1:H:16:ILE:HA	1:H:34:THR:OG1	2.17	0.64
1:I:230:ARG:HH11	1:I:230:ARG:HB3	1.85	0.64
1:J:123:LEU:HD21	1:J:143:TRP:HB2	2.84	0.64
1:J:15:TYR:CE2	1:J:17:HIS:HB3	2.33	0.64
1:J:341:GLU:HG2	1:J:370:LYS:HD3	2.58	0.64
1:J:469:GLN:HB3	1:J:496:THR:CG2	2.28	0.64
1:K:14:HIS:HB3	1:K:56:ARG:CG	2.27	0.64
1:K:154:GLN:HG3	1:K:155:LYS:HE3	1.78	0.64
1:K:182:CYS:SG	1:K:208:VAL:CG2	3.01	0.64
1:K:245:THR:HG22	1:L:219:VAL:HG11	1.79	0.64
1:K:543:TYR:CD2	1:K:575:ILE:HD13	4.66	0.64
1:L:106:GLU:O	1:L:107:LYS:HD2	1.97	0.64
1:L:154:GLN:HG3	1:L:155:LYS:HG3	1.78	0.64
1:L:221:LEU:HD22	1:L:256:THR:CB	2.35	0.64
1:L:273:ILE:HG13	1:L:308:PHE:HB3	2.44	0.64
1:L:490:ASP:CG	1:L:491:PRO:HD2	2.33	0.64
1:N:115:VAL:H	1:N:118:ASN:HD22	1.46	0.64
1:N:529:ILE:HD11	1:N:539:LEU:HD11	1.79	0.64
1:W:128:ASP:OD1	1:W:155:LYS:HD2	1.97	0.64
1:W:587:THR:HG23	1:W:590:ASP:HB2	1.80	0.64
1:X:235:PHE:CE2	1:X:243:HIS:HB3	2.32	0.64
1:A:109:ILE:CD1	1:A:153:PRO:HG2	2.96	0.64
1:A:109:ILE:HD12	1:A:153:PRO:CG	2.96	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:18:VAL:CG1	1:A:48:VAL:HG22	2.25	0.64
1:A:469:GLN:HB3	1:A:496:THR:HG21	1.90	0.64
1:B:334:LEU:HD12	1:B:377:ARG:HH21	2.58	0.64
1:B:417:LYS:O	1:B:418:GLU:HB2	2.03	0.64
1:C:261:PRO:HD2	1:C:264:TYR:HB2	1.88	0.64
1:D:517:LEU:O	1:D:545:TRP:CH2	2.50	0.64
1:E:36:ILE:HG21	1:E:99:LEU:CD1	2.22	0.64
1:E:517:LEU:H	1:E:517:LEU:HD12	2.25	0.64
1:E:580:ARG:HH22	1:F:595:SER:HB2	1.78	0.64
1:G:165:ALA:CB	1:G:174:LEU:HD11	2.27	0.64
1:G:542:ALA:HB3	1:G:639:ASP:HB2	1.79	0.64
1:G:697:SER:HB3	1:H:706:LEU:HB2	1.80	0.64
1:I:167:VAL:HG13	1:I:201:VAL:O	1.97	0.64
1:I:363:LEU:HD13	1:I:364:GLU:H	1.63	0.64
1:I:511:ARG:HH22	1:I:517:LEU:HD11	1.62	0.64
1:L:230:ARG:HH11	1:L:230:ARG:HB3	1.86	0.64
1:L:335:LYS:HE2	1:L:371:VAL:HG11	2.44	0.64
1:L:43:VAL:HG12	1:L:45:PHE:O	1.98	0.64
1:L:46:ALA:N	1:L:47:PRO:HD3	2.13	0.64
1:L:734:ARG:HH21	1:L:735:ILE:HD13	1.61	0.64
1:M:129:PHE:HA	1:M:137:VAL:HG22	2.00	0.64
1:M:3:THR:HG22	1:M:50:MET:HE1	2.10	0.64
1:M:676:GLU:OE1	1:M:676:GLU:HA	1.97	0.64
1:M:30:VAL:HG22	1:M:74:LEU:HG	2.18	0.64
1:N:384:GLN:HE21	1:N:384:GLN:H	1.45	0.64
1:O:283:VAL:HG22	1:O:301:VAL:HG12	1.79	0.64
1:O:734:ARG:HH21	1:O:735:ILE:CD1	2.11	0.64
1:Q:227:LEU:O	1:Q:250:LEU:HA	1.97	0.64
1:Q:311:GLN:HB3	1:Q:312:PRO:CD	2.27	0.64
1:Q:771:ILE:HD13	1:Q:774:ARG:NH1	2.13	0.64
1:V:623:ARG:HG3	1:V:624:ASP:N	2.10	0.64
1:Y:194:GLU:HG2	1:Y:195:GLU:H	1.62	0.64
1:Z:384:GLN:HE21	1:Z:384:GLN:H	1.44	0.64
1:A:43:VAL:HG12	1:A:45:PHE:O	1.98	0.64
1:D:252:THR:H	1:D:254:GLN:NE2	2.24	0.64
1:F:152:ILE:HD11	1:F:156:GLU:OE2	2.76	0.64
1:F:481:VAL:HG11	1:F:487:VAL:HG13	1.80	0.64
1:G:332:LEU:HD11	1:G:379:ALA:HB2	1.92	0.64
1:G:46:ALA:N	1:G:47:PRO:CD	2.66	0.64
1:G:807:ILE:HD12	1:G:808:ARG:H	1.62	0.64
1:H:807:ILE:HD12	1:H:808:ARG:N	2.13	0.64
1:H:654:LEU:CD1	1:I:662:ILE:HD13	2.59	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:676:GLU:OE1	1:J:676:GLU:HA	2.12	0.64
1:K:109:ILE:HD12	1:K:153:PRO:CG	2.28	0.64
1:K:221:LEU:CD2	1:K:256:THR:CG2	2.82	0.64
1:J:759:LEU:HD22	1:K:768:MET:HG3	1.80	0.64
1:L:182:CYS:SG	1:L:208:VAL:CB	2.86	0.64
1:L:408:LEU:H	1:L:408:LEU:HD12	1.62	0.64
1:L:77:ILE:CG2	1:L:78:THR:H	2.10	0.64
1:L:77:ILE:HG22	1:L:78:THR:H	1.59	0.64
1:L:90:ILE:HD12	1:L:90:ILE:O	2.16	0.64
1:M:230:ARG:HB2	1:M:265:GLU:HB3	1.80	0.64
1:M:8:ILE:HG22	1:M:40:ASN:ND2	2.13	0.64
1:O:106:GLU:O	1:O:107:LYS:HD2	1.97	0.64
1:O:194:GLU:HG2	1:O:195:GLU:N	2.13	0.64
1:O:340:LEU:HG	1:O:353:ALA:HB2	1.80	0.64
1:P:70:GLN:HB3	1:P:104:VAL:O	1.98	0.64
1:Q:663:GLU:O	1:Q:666:THR:HG22	1.97	0.64
1:R:115:VAL:N	1:R:118:ASN:HD22	1.96	0.64
1:R:164:GLN:HB3	1:R:204:TYR:HA	1.79	0.64
1:R:220:ILE:C	1:R:222:THR:H	2.00	0.64
1:S:228:HIS:NE2	1:S:312:PRO:HB3	2.13	0.64
1:X:260:VAL:HB	1:X:263:VAL:HA	1.80	0.64
1:X:526:VAL:HG22	1:X:540:GLN:HG2	1.80	0.64
1:Y:481:VAL:HG11	1:Y:487:VAL:HG11	1.80	0.64
1:Y:490:ASP:CG	1:Y:491:PRO:HD2	2.19	0.64
1:Y:653:ALA:CB	1:Z:662:ILE:HD12	2.28	0.64
1:Y:692:LYS:HG2	1:Y:696:GLN:HE21	1.63	0.64
1:A:794:LYS:O	1:A:798:MET:HG2	2.21	0.64
1:B:601:MET:HG2	1:B:622:ALA:CB	2.69	0.64
1:D:113:GLN:O	1:D:114:VAL:HG13	1.98	0.64
1:F:109:ILE:HD12	1:F:153:PRO:CB	2.51	0.64
1:F:8:ILE:HD12	1:F:8:ILE:O	1.98	0.64
1:H:472:ASP:HA	1:H:493:GLU:CB	2.27	0.64
1:I:227:LEU:CB	1:I:251:VAL:HG12	2.26	0.64
1:J:337:LEU:HD22	1:J:357:TRP:HZ3	1.63	0.64
1:K:529:ILE:CD1	1:K:537:LEU:HB2	2.59	0.64
1:L:185:ARG:HH22	1:L:207:ALA:HB3	1.63	0.64
1:M:70:GLN:HB3	1:M:104:VAL:O	1.98	0.64
1:L:654:LEU:HD11	1:M:662:ILE:HG21	2.42	0.64
1:O:220:ILE:O	1:O:253:VAL:HG22	1.98	0.64
1:P:244:ARG:HH11	1:Q:221:LEU:HD11	1.61	0.64
1:Q:128:ASP:HB2	1:Q:155:LYS:HB3	1.79	0.64
1:Q:36:ILE:CD1	1:Q:36:ILE:O	2.43	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:384:GLN:NE2	1:Q:384:GLN:H	1.96	0.64
1:R:109:ILE:CD1	1:R:153:PRO:CG	2.65	0.64
1:R:146:GLU:OE1	1:R:146:GLU:HA	1.98	0.64
1:S:184:ASP:HB2	1:S:189:GLY:O	1.97	0.64
1:S:49:ARG:NH2	1:T:8:ILE:HD12	2.13	0.64
1:V:185:ARG:HH22	1:V:207:ALA:HB3	1.62	0.64
1:V:653:ALA:HB3	1:W:662:ILE:CD1	2.28	0.64
1:Y:8:ILE:HG22	1:Y:40:ASN:ND2	2.13	0.64
1:B:221:LEU:CD2	1:B:256:THR:HG21	2.28	0.63
1:B:380:ILE:CD1	1:B:388:ILE:HD13	2.54	0.63
1:C:326:LEU:HD11	1:C:359:ILE:HD12	5.47	0.63
1:E:605:GLY:O	1:E:623:ARG:HB2	2.32	0.63
1:F:337:LEU:HD23	1:F:337:LEU:N	2.27	0.63
1:G:206:PRO:HB2	1:G:209:PHE:CD2	2.33	0.63
1:G:766:ARG:HD2	1:H:768:MET:CE	2.88	0.63
1:J:523:PHE:CD1	1:J:545:TRP:NE1	2.80	0.63
1:K:517:LEU:O	1:K:545:TRP:HH2	1.82	0.63
1:M:116:LEU:CB	1:M:117:PRO:CD	2.92	0.63
1:O:123:LEU:HD11	1:O:143:TRP:CD1	2.33	0.63
1:Q:123:LEU:HG	1:Q:143:TRP:HB2	1.81	0.63
1:R:154:GLN:HG3	1:R:155:LYS:CE	2.27	0.63
1:R:227:LEU:CB	1:R:251:VAL:HG12	2.28	0.63
1:R:291:ASP:HB3	1:R:293:LYS:HB2	1.79	0.63
1:S:227:LEU:HB2	1:S:251:VAL:CG1	2.27	0.63
1:S:60:ILE:HD13	1:S:93:ALA:HA	1.79	0.63
1:T:564:VAL:HG22	1:T:631:ASN:HD22	1.61	0.63
1:U:18:VAL:N	1:U:48:VAL:HG13	2.11	0.63
1:V:120:ALA:O	1:V:161:GLU:HA	1.97	0.63
1:X:363:LEU:HD13	1:X:364:GLU:H	1.63	0.63
1:Y:185:ARG:HH22	1:Y:207:ALA:HB3	1.63	0.63
1:C:273:ILE:HG23	1:C:310:LEU:HD11	2.08	0.63
1:C:804:PRO:O	1:C:807:ILE:HD11	1.97	0.63
1:D:18:VAL:N	1:D:48:VAL:HG13	2.12	0.63
1:D:676:GLU:OE1	1:D:676:GLU:HA	2.31	0.63
1:E:189:GLY:O	1:E:196:TRP:HZ2	1.80	0.63
1:E:382:LEU:HB2	1:E:404:SER:O	2.04	0.63
1:J:8:ILE:CD1	1:J:8:ILE:H	3.87	0.63
1:K:115:VAL:HB	1:K:148:PRO:HA	2.04	0.63
1:K:220:ILE:CD1	1:K:256:THR:HA	2.28	0.63
1:L:332:LEU:CD2	1:L:407:MET:HB2	2.56	0.63
1:L:771:ILE:HD13	1:L:774:ARG:HH11	1.62	0.63
1:M:389:TYR:CE1	1:M:457:VAL:HA	2.78	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:176:LEU:HB2	1:O:196:TRP:HB2	1.79	0.63
1:O:36:ILE:HD13	1:O:36:ILE:C	2.19	0.63
1:R:176:LEU:HD23	1:R:211:GLU:HA	1.79	0.63
1:S:653:ALA:HB3	1:T:662:ILE:CD1	2.27	0.63
1:U:511:ARG:HH22	1:U:517:LEU:HD11	1.63	0.63
1:W:377:ARG:NH1	1:W:408:LEU:O	2.31	0.63
1:X:262:ASP:HB3	1:X:264:TYR:CZ	2.34	0.63
1:A:771:ILE:HA	1:A:774:ARG:NH1	2.70	0.63
1:B:326:LEU:CD2	1:B:333:LEU:HG	2.51	0.63
1:C:46:ALA:N	1:C:47:PRO:CD	2.61	0.63
1:C:90:ILE:HD12	1:C:90:ILE:O	4.49	0.63
1:D:85:HIS:NE2	1:D:102:GLY:HA3	2.13	0.63
1:D:230:ARG:HG2	1:D:248:GLU:HG2	1.88	0.63
1:D:251:VAL:HG23	1:D:254:GLN:NE2	2.14	0.63
1:F:252:THR:O	1:F:254:GLN:N	3.97	0.63
1:F:328:GLU:HA	1:F:328:GLU:OE1	1.97	0.63
1:K:337:LEU:HG	1:K:354:GLY:H	1.63	0.63
1:K:558:ALA:O	1:K:561:LEU:HB2	1.98	0.63
1:M:73:VAL:H	1:M:84:ARG:HB2	1.63	0.63
1:N:70:GLN:HB3	1:N:104:VAL:O	1.98	0.63
1:O:387:GLY:HA3	1:O:402:ILE:HG22	1.80	0.63
1:O:571:ALA:O	1:O:575:ILE:HG12	1.98	0.63
1:P:100:TYR:HB3	1:P:101:PRO:HD2	1.78	0.63
1:P:227:LEU:CB	1:P:251:VAL:HG12	2.29	0.63
1:Q:56:ARG:HD2	1:Q:99:LEU:CD2	2.28	0.63
1:R:115:VAL:H	1:R:118:ASN:HD22	1.44	0.63
1:R:1:MET:HE3	1:R:47:PRO:HB3	1.80	0.63
1:R:359:ILE:HD12	1:R:359:ILE:O	1.98	0.63
1:R:46:ALA:N	1:R:47:PRO:HD3	2.13	0.63
1:S:762:VAL:O	1:S:766:ARG:HB2	1.98	0.63
1:T:194:GLU:HG2	1:T:195:GLU:H	1.64	0.63
1:U:517:LEU:O	1:U:545:TRP:CH2	2.51	0.63
1:V:70:GLN:HE21	1:V:104:VAL:HG12	1.63	0.63
1:W:469:GLN:HB3	1:W:496:THR:HG21	1.81	0.63
1:Z:14:HIS:ND1	1:Z:36:ILE:HG22	2.13	0.63
1:C:224:LYS:HA	1:C:272:PRO:HG3	1.80	0.63
1:C:224:LYS:O	1:C:272:PRO:HD3	1.97	0.63
1:C:523:PHE:CE1	1:C:568:VAL:HG12	2.34	0.63
1:D:229:LEU:HD23	1:D:266:GLU:HA	1.79	0.63
1:D:18:VAL:CG1	1:D:48:VAL:HG22	2.39	0.63
1:E:326:LEU:HD13	1:E:360:ARG:HA	1.80	0.63
1:E:60:ILE:HD12	1:E:60:ILE:H	1.63	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:57:HIS:O	1:E:99:LEU:HD11	2.24	0.63
1:F:175:ARG:HA	1:F:196:TRP:O	2.28	0.63
1:F:60:ILE:HD12	1:F:60:ILE:H	1.62	0.63
1:G:123:LEU:HA	1:G:158:GLU:HA	2.07	0.63
1:G:182:CYS:SG	1:G:208:VAL:HG21	2.61	0.63
1:G:221:LEU:HD22	1:G:256:THR:HG21	1.78	0.63
1:G:4:GLU:OE2	1:G:6:ALA:HB2	2.08	0.63
1:H:5:GLU:OE1	1:H:43:VAL:HG11	2.21	0.63
1:H:77:ILE:HG13	1:H:79:GLY:H	2.23	0.63
1:I:123:LEU:HG	1:I:143:TRP:HB2	1.81	0.63
1:K:130:GLU:HA	1:K:137:VAL:H	1.82	0.63
1:L:20:ASP:HB2	1:L:49:ARG:HD3	1.81	0.63
1:L:601:MET:CG	1:L:622:ALA:HB2	2.28	0.63
1:N:113:GLN:OE1	1:N:149:GLY:HA2	1.98	0.63
1:Q:587:THR:HG23	1:Q:590:ASP:CB	2.29	0.63
1:R:273:ILE:HG13	1:R:308:PHE:HB3	1.79	0.63
1:R:337:LEU:HD11	1:R:351:HIS:HB3	1.79	0.63
1:T:129:PHE:HA	1:T:137:VAL:HG22	1.80	0.63
1:T:227:LEU:O	1:T:250:LEU:HA	1.98	0.63
1:T:285:LEU:HD12	1:T:315:ARG:HD2	1.81	0.63
1:U:73:VAL:N	1:U:84:ARG:HB2	2.06	0.63
1:W:175:ARG:NE	1:W:263:VAL:HG22	2.14	0.63
1:W:30:VAL:HG13	1:W:74:LEU:HD11	1.80	0.63
1:W:16:ILE:HA	1:W:34:THR:OG1	1.98	0.63
1:W:73:VAL:HG11	1:W:82:ARG:HB2	1.80	0.63
1:Z:130:GLU:HB2	1:Z:136:LYS:HA	1.80	0.63
1:Z:276:LEU:H	1:Z:280:HIS:HB2	1.63	0.63
1:A:330:GLN:OE1	1:A:330:GLN:HA	1.99	0.63
1:C:452:ARG:HH11	1:C:452:ARG:HG3	1.81	0.63
1:D:125:ALA:HB3	1:D:140:GLY:HA2	1.79	0.63
1:D:414:LEU:HD23	1:D:455:THR:HB	2.47	0.63
1:D:653:ALA:HB3	1:E:662:ILE:HD11	1.78	0.63
1:F:58:TYR:HD1	1:F:99:LEU:HD12	2.33	0.63
1:F:796:LYS:HA	1:F:799:THR:HG22	1.80	0.63
1:G:384:GLN:H	1:G:384:GLN:NE2	1.96	0.63
1:G:766:ARG:O	1:G:770:LEU:HB2	2.01	0.63
1:G:77:ILE:HG13	1:G:79:GLY:H	1.64	0.63
1:I:745:LYS:CG	1:J:753:ILE:HD13	2.61	0.63
1:I:755:THR:HG21	1:J:761:ARG:HG2	1.85	0.63
1:J:77:ILE:HG13	1:J:79:GLY:H	1.64	0.63
1:K:8:ILE:HA	1:K:40:ASN:HD22	1.71	0.63
1:K:90:ILE:H	1:K:90:ILE:HD13	4.20	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:273:ILE:HD11	1:M:308:PHE:CD2	2.34	0.63
1:O:273:ILE:HD13	1:O:316:LEU:HD11	1.79	0.63
1:P:508:PRO:O	1:P:509:HIS:HD2	1.80	0.63
1:S:526:VAL:HG22	1:S:540:GLN:HG2	1.81	0.63
1:S:61:VAL:HG13	1:S:65:VAL:HG23	1.81	0.63
1:T:176:LEU:HD13	1:T:209:PHE:CD1	2.27	0.63
1:U:221:LEU:HD22	1:U:256:THR:CG2	2.28	0.63
1:U:4:GLU:OE2	1:U:6:ALA:HB2	1.98	0.63
1:W:332:LEU:HD22	1:W:377:ARG:HD2	1.81	0.63
1:X:575:ILE:HD12	1:X:603:VAL:CG1	2.27	0.63
1:Y:11:PRO:HA	1:Y:38:GLN:HA	1.79	0.63
1:Y:419:LEU:HD23	1:Y:421:SER:H	1.64	0.63
1:Y:750:ALA:O	1:Y:753:ILE:HG22	1.98	0.63
1:A:18:VAL:H	1:A:48:VAL:CG1	2.10	0.63
1:A:354:GLY:O	1:B:328:GLU:HG3	4.32	0.63
1:B:224:LYS:HA	1:B:272:PRO:HG3	1.91	0.63
1:B:687:ARG:HG2	1:B:691:GLN:HE21	1.61	0.63
1:C:273:ILE:CD1	1:C:316:LEU:HD21	2.63	0.63
1:D:152:ILE:HD13	1:D:152:ILE:O	2.98	0.63
1:D:653:ALA:HB3	1:E:662:ILE:HD13	2.08	0.63
1:E:771:ILE:CD1	1:E:774:ARG:HH11	2.09	0.63
1:F:46:ALA:N	1:F:47:PRO:HD3	2.19	0.63
1:F:476:LYS:HE2	1:G:485:GLU:HG3	1.80	0.63
1:G:121:LEU:HD12	1:G:145:PHE:HD2	1.63	0.63
1:G:8:ILE:HG22	1:G:40:ASN:HD21	1.72	0.63
1:H:227:LEU:O	1:H:250:LEU:HA	1.99	0.63
1:H:268:LEU:HD13	1:H:269:GLY:H	1.71	0.63
1:A:806:THR:HG21	1:M:807:ILE:HD13	107.86	0.63
1:N:363:LEU:HD13	1:N:364:GLU:H	1.62	0.63
1:O:1:MET:HE3	1:O:47:PRO:HB3	1.78	0.63
1:O:394:LYS:HZ1	1:P:329:GLN:HB2	1.62	0.63
1:T:196:TRP:HA	1:T:196:TRP:CE3	2.32	0.63
1:T:417:LYS:O	1:T:418:GLU:HB2	1.97	0.63
1:T:601:MET:CG	1:T:622:ALA:HB2	2.29	0.63
1:U:286:ASP:HB3	1:U:296:LEU:HA	1.79	0.63
1:V:526:VAL:HG22	1:V:540:GLN:HG2	1.80	0.63
1:W:221:LEU:HD21	1:W:256:THR:CG2	2.28	0.63
1:W:549:LEU:HD12	1:W:552:ARG:HA	1.80	0.63
1:W:587:THR:HG23	1:W:590:ASP:CB	2.28	0.63
1:A:339:PRO:HD2	1:A:370:LYS:HB3	1.79	0.63
1:D:115:VAL:N	1:D:118:ASN:HD22	2.03	0.63
1:D:175:ARG:HG3	1:D:215:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:217:ASP:HB2	1:D:258:ALA:HA	2.20	0.63
1:D:46:ALA:N	1:D:47:PRO:HD3	2.18	0.63
1:E:360:ARG:HG3	1:E:361:GLY:N	2.37	0.63
1:E:418:GLU:OE2	1:E:452:ARG:NH1	2.32	0.63
1:E:46:ALA:N	1:E:47:PRO:CD	2.64	0.63
1:F:175:ARG:NE	1:F:263:VAL:HG22	2.37	0.63
1:F:180:LYS:HD2	1:F:208:VAL:HG12	1.80	0.63
1:F:573:LYS:HE3	1:G:522:PHE:CZ	2.34	0.63
1:H:311:GLN:HB3	1:H:312:PRO:HD2	2.20	0.63
1:I:340:LEU:HD23	1:I:353:ALA:H	1.64	0.63
1:I:382:LEU:H	1:I:405:THR:HG22	1.81	0.63
1:I:771:ILE:HA	1:I:774:ARG:NH1	2.13	0.63
1:L:766:ARG:O	1:L:770:LEU:HB2	1.98	0.63
1:M:494:GLN:NE2	1:M:494:GLN:HA	2.48	0.63
1:M:527:ILE:HD13	1:M:527:ILE:N	2.13	0.63
1:N:4:GLU:OE2	1:N:6:ALA:HB2	1.98	0.63
1:Q:273:ILE:HG21	1:Q:316:LEU:HD11	1.81	0.63
1:R:46:ALA:N	1:R:47:PRO:CD	2.61	0.63
1:S:273:ILE:HD13	1:S:316:LEU:HD21	1.80	0.63
1:U:18:VAL:H	1:U:48:VAL:CG1	2.11	0.63
1:U:332:LEU:HD11	1:U:379:ALA:HB2	1.80	0.63
1:U:408:LEU:HD21	1:U:414:LEU:CD1	2.29	0.63
1:Z:19:LEU:HA	1:Z:32:PRO:CB	2.29	0.63
1:A:227:LEU:HB2	1:A:251:VAL:CG1	2.27	0.63
1:A:267:VAL:O	1:A:268:LEU:HB2	2.32	0.63
1:A:84:ARG:HH22	1:A:101:PRO:HD2	1.64	0.63
1:B:64:PRO:HA	1:B:111:PRO:HD2	1.95	0.63
1:B:796:LYS:HA	1:B:799:THR:HG22	2.07	0.63
1:D:167:VAL:O	1:D:201:VAL:HA	1.99	0.63
1:D:46:ALA:N	1:D:47:PRO:CD	2.62	0.63
1:D:8:ILE:HA	1:D:40:ASN:HD22	1.64	0.63
1:D:8:ILE:O	1:D:8:ILE:HD12	1.99	0.63
1:E:171:ASN:O	1:E:216:VAL:HA	1.99	0.63
1:E:579:VAL:HG13	1:E:599:ILE:HD12	2.35	0.63
1:F:11:PRO:HB2	1:F:12:PRO:HD3	2.11	0.63
1:F:458:VAL:HG11	1:F:489:LEU:HD12	1.80	0.63
1:G:227:LEU:HB2	1:G:251:VAL:HG12	1.79	0.63
1:G:327:SER:HB2	1:G:331:GLY:HA2	1.86	0.63
1:G:8:ILE:HD12	1:G:8:ILE:O	2.00	0.63
1:H:220:ILE:HD13	1:H:251:VAL:HG13	1.81	0.63
1:K:114:VAL:HG12	1:K:118:ASN:HD21	1.62	0.63
1:M:185:ARG:HH22	1:M:207:ALA:HB3	1.63	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:326:LEU:HD13	1:M:360:ARG:HA	1.79	0.63
1:L:807:ILE:HD12	1:M:806:THR:HG21	1.81	0.63
1:N:697:SER:HB3	1:O:706:LEU:HB2	1.79	0.63
1:P:182:CYS:SG	1:P:208:VAL:HG21	2.39	0.63
1:R:115:VAL:O	1:R:118:ASN:HB3	1.98	0.63
1:R:11:PRO:HB2	1:R:12:PRO:HD3	1.80	0.63
1:T:45:PHE:HB3	1:T:47:PRO:HD2	1.79	0.63
1:X:176:LEU:HB2	1:X:196:TRP:CB	2.27	0.63
1:Z:24:ASN:HD22	1:Z:30:VAL:HB	1.64	0.63
1:A:221:LEU:CD2	1:A:256:THR:CG2	2.85	0.63
1:A:419:LEU:CD2	1:A:422:GLY:H	2.49	0.63
1:A:18:VAL:N	1:A:48:VAL:HG13	2.10	0.63
1:A:8:ILE:HD12	1:Z:49:ARG:CZ	290.30	0.63
1:B:360:ARG:HG3	1:B:361:GLY:H	2.20	0.63
1:B:36:ILE:HD11	1:B:58:TYR:HE1	1.63	0.63
1:C:490:ASP:CG	1:C:491:PRO:HD2	2.55	0.63
1:D:419:LEU:HD23	1:D:421:SER:H	1.88	0.63
1:D:5:GLU:HG2	1:D:43:VAL:CG2	2.40	0.63
1:E:175:ARG:HB2	1:E:213:LEU:O	1.99	0.63
1:E:77:ILE:HG13	1:E:79:GLY:N	2.58	0.63
1:F:10:ILE:HD13	1:F:13:TYR:CE2	2.33	0.63
1:F:159:VAL:HG12	1:F:160:VAL:HG22	1.80	0.63
1:F:73:VAL:N	1:F:84:ARG:HB2	3.33	0.63
1:G:90:ILE:O	1:G:90:ILE:HD12	1.99	0.63
1:I:36:ILE:O	1:I:36:ILE:HG13	3.83	0.63
1:J:407:MET:SD	1:J:407:MET:N	2.99	0.63
1:K:542:ALA:HB3	1:K:639:ASP:HB2	2.20	0.63
1:L:228:HIS:HB3	1:L:267:VAL:HB	2.42	0.63
1:L:526:VAL:HG22	1:L:540:GLN:HG2	1.96	0.63
1:K:580:ARG:HH22	1:L:595:SER:HB2	1.62	0.63
1:L:299:LYS:HE3	1:M:276:LEU:HD11	1.81	0.63
1:P:9:ARG:NH1	1:P:36:ILE:HA	2.11	0.63
1:S:573:LYS:HE3	1:T:522:PHE:CZ	2.34	0.63
1:U:382:LEU:HD11	1:U:388:ILE:HD13	1.79	0.63
1:V:260:VAL:HA	1:V:264:TYR:H	1.64	0.63
1:V:381:PRO:CA	1:V:405:THR:HG22	2.27	0.63
1:W:18:VAL:O	1:W:32:PRO:HB3	1.98	0.63
1:X:224:LYS:HA	1:X:272:PRO:HG3	1.80	0.63
1:A:120:ALA:O	1:A:161:GLU:HA	1.98	0.62
1:A:551:ASN:HB3	1:A:554:ASP:HB3	1.81	0.62
1:B:337:LEU:HD22	1:B:357:TRP:CZ3	2.39	0.62
1:B:485:GLU:HG2	1:B:486:LEU:N	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:60:ILE:N	1:B:60:ILE:HD13	3.59	0.62
1:D:587:THR:HG23	1:D:590:ASP:CB	2.39	0.62
1:E:273:ILE:CD1	1:E:316:LEU:HD21	2.29	0.62
1:F:337:LEU:HD22	1:F:357:TRP:CZ3	2.34	0.62
1:F:77:ILE:HG13	1:F:79:GLY:N	2.60	0.62
1:F:22:ASN:HD21	1:G:39:ASP:HB3	1.74	0.62
1:G:529:ILE:CD1	1:G:537:LEU:HB2	2.28	0.62
1:H:123:LEU:HD21	1:H:143:TRP:HB2	2.40	0.62
1:H:43:VAL:HG12	1:H:45:PHE:O	2.01	0.62
1:I:184:ASP:HB2	1:I:189:GLY:O	2.02	0.62
1:J:120:ALA:O	1:J:161:GLU:HA	1.96	0.62
1:J:130:GLU:HA	1:J:137:VAL:H	2.07	0.62
1:J:227:LEU:CB	1:J:251:VAL:HG12	2.50	0.62
1:J:239:ARG:HH21	1:J:257:GLU:HG2	1.76	0.62
1:K:154:GLN:HG3	1:K:155:LYS:NZ	2.14	0.62
1:M:64:PRO:HA	1:M:111:PRO:HD2	1.80	0.62
1:N:485:GLU:HG2	1:N:486:LEU:N	2.14	0.62
1:O:15:TYR:CE2	1:O:17:HIS:HB3	2.34	0.62
1:Q:115:VAL:HA	1:Q:147:GLY:O	1.99	0.62
1:S:221:LEU:CD2	1:S:256:THR:CG2	2.75	0.62
1:Z:115:VAL:H	1:Z:118:ASN:ND2	1.91	0.62
1:Z:251:VAL:HG21	1:Z:257:GLU:HG2	1.80	0.62
1:A:125:ALA:HB3	1:A:140:GLY:HA2	1.81	0.62
1:C:382:LEU:H	1:C:405:THR:HG22	1.65	0.62
1:C:511:ARG:HH22	1:C:517:LEU:HD11	2.01	0.62
1:F:184:ASP:HB2	1:F:189:GLY:O	1.99	0.62
1:F:693:ILE:HD11	1:G:703:ARG:NH2	2.13	0.62
1:H:310:LEU:HD12	1:H:310:LEU:H	1.83	0.62
1:I:10:ILE:HG23	1:I:11:PRO:HD2	1.80	0.62
1:J:14:HIS:CB	1:J:56:ARG:HB2	2.52	0.62
1:J:14:HIS:HB3	1:J:56:ARG:CB	2.62	0.62
1:K:154:GLN:CG	1:K:155:LYS:HE3	2.29	0.62
1:K:8:ILE:HG22	1:K:40:ASN:ND2	2.17	0.62
1:N:152:ILE:N	1:N:152:ILE:HD13	2.12	0.62
1:Q:154:GLN:HG3	1:Q:155:LYS:HG3	1.80	0.62
1:R:22:ASN:HD21	1:S:39:ASP:HB3	1.64	0.62
1:R:291:ASP:C	1:R:293:LYS:H	2.03	0.62
1:U:5:GLU:HG2	1:U:43:VAL:HG21	1.81	0.62
1:V:587:THR:HG23	1:V:590:ASP:CB	2.30	0.62
1:X:332:LEU:HD23	1:X:358:LEU:CD1	2.29	0.62
1:Y:109:ILE:HD12	1:Y:153:PRO:CB	2.29	0.62
1:B:281:TYR:CE1	1:B:321:GLN:HB2	2.35	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:474:ARG:HG3	1:C:492:GLU:HB2	1.81	0.62
1:C:65:VAL:HG12	1:C:110:THR:HG22	1.81	0.62
1:D:69:THR:HA	1:D:106:GLU:HB3	2.40	0.62
1:E:226:ALA:HB3	1:E:270:VAL:HG13	1.81	0.62
1:E:276:LEU:HB2	1:E:280:HIS:ND1	2.71	0.62
1:E:452:ARG:HH12	1:E:454:LYS:HA	1.64	0.62
1:G:109:ILE:CD1	1:G:153:PRO:HG2	2.75	0.62
1:F:727:GLU:HG3	1:G:735:ILE:HD13	4.51	0.62
1:H:109:ILE:HD11	1:H:153:PRO:HB2	1.78	0.62
1:H:8:ILE:O	1:H:8:ILE:HD12	1.99	0.62
1:J:452:ARG:NH2	1:J:458:VAL:HG22	2.13	0.62
1:L:109:ILE:HD12	1:L:153:PRO:HB3	1.78	0.62
1:L:560:LYS:HD2	1:L:630:GLN:O	1.99	0.62
1:N:415:TRP:CZ3	1:N:417:LYS:HB3	2.34	0.62
1:Q:150:THR:HG23	1:Q:151:TYR:H	1.65	0.62
1:Q:605:GLY:HA3	1:Q:623:ARG:HH21	1.63	0.62
1:R:654:LEU:HD13	1:S:662:ILE:CD1	2.28	0.62
1:T:327:SER:HB2	1:T:331:GLY:HA2	1.79	0.62
1:V:481:VAL:HG11	1:V:487:VAL:CG1	2.29	0.62
1:W:287:PRO:HA	1:W:314:GLU:OE2	1.99	0.62
1:X:472:ASP:HA	1:X:493:GLU:HB3	1.81	0.62
1:X:580:ARG:HH22	1:Y:595:SER:HB2	1.64	0.62
1:W:654:LEU:HD11	1:X:662:ILE:HG21	1.80	0.62
1:X:573:LYS:HE3	1:Y:522:PHE:CZ	2.34	0.62
1:Z:268:LEU:HD13	1:Z:269:GLY:H	1.63	0.62
1:Z:601:MET:CG	1:Z:622:ALA:HB2	2.26	0.62
1:Z:802:LEU:HD12	1:Z:806:THR:HG22	1.81	0.62
1:A:377:ARG:NH1	1:A:408:LEU:O	2.38	0.62
1:B:539:LEU:HD22	1:B:643:VAL:HG22	1.90	0.62
1:C:279:ARG:HG3	1:C:280:HIS:HD2	1.63	0.62
1:E:130:GLU:H	1:E:137:VAL:CG1	2.07	0.62
1:G:185:ARG:HG3	1:G:206:PRO:HB3	1.85	0.62
1:I:113:GLN:OE1	1:I:149:GLY:HA2	2.20	0.62
1:I:85:HIS:NE2	1:I:102:GLY:HA3	2.14	0.62
1:K:180:LYS:C	1:K:182:CYS:N	2.67	0.62
1:K:311:GLN:HB3	1:K:312:PRO:HD2	1.81	0.62
1:K:54:PRO:HB2	1:K:55:PRO:CD	2.37	0.62
1:L:338:GLN:HB3	1:L:339:PRO:HD3	2.55	0.62
1:N:165:ALA:HB3	1:N:174:LEU:HD11	1.82	0.62
1:O:46:ALA:N	1:O:47:PRO:CD	2.62	0.62
1:P:311:GLN:HB3	1:P:312:PRO:HD2	1.80	0.62
1:Q:175:ARG:HE	1:Q:263:VAL:CG2	2.11	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:284:ILE:HD13	1:Q:284:ILE:N	2.14	0.62
1:R:286:ASP:HB3	1:R:296:LEU:HA	1.82	0.62
1:S:196:TRP:HA	1:S:196:TRP:CE3	2.33	0.62
1:S:662:ILE:O	1:S:666:THR:HB	1.99	0.62
1:U:85:HIS:NE2	1:U:102:GLY:HA3	2.14	0.62
1:V:527:ILE:HD11	1:V:541:LEU:HG	1.80	0.62
1:V:697:SER:HB3	1:W:706:LEU:HB2	1.82	0.62
1:X:167:VAL:HG13	1:X:202:GLY:N	2.14	0.62
1:Y:359:ILE:HD12	1:Y:359:ILE:O	2.00	0.62
1:Z:185:ARG:HG3	1:Z:206:PRO:HB3	1.80	0.62
1:Z:54:PRO:CB	1:Z:55:PRO:HD3	2.23	0.62
1:B:304:GLY:H	1:B:306:LYS:HZ1	1.47	0.62
1:B:90:ILE:HD13	1:B:90:ILE:H	4.17	0.62
1:D:326:LEU:HD21	1:D:333:LEU:HG	1.82	0.62
1:E:252:THR:H	1:E:254:GLN:HE21	2.07	0.62
1:I:221:LEU:HD13	1:I:256:THR:HB	1.82	0.62
1:J:419:LEU:HD23	1:J:421:SER:H	1.81	0.62
1:K:9:ARG:CZ	1:K:15:TYR:HB3	2.30	0.62
1:K:6:ALA:N	1:K:7:ILE:HD12	5.38	0.62
1:L:517:LEU:O	1:L:545:TRP:HH2	1.83	0.62
1:L:8:ILE:CD1	1:L:8:ILE:H	4.06	0.62
1:L:58:TYR:CD1	1:L:98:PRO:HA	2.54	0.62
1:M:596:ALA:O	1:M:600:ARG:HB2	2.21	0.62
1:N:36:ILE:HD13	1:N:36:ILE:C	2.20	0.62
1:N:425:GLU:H	1:N:425:GLU:CD	2.02	0.62
1:N:481:VAL:HG11	1:N:487:VAL:CG1	2.29	0.62
1:N:653:ALA:HB3	1:O:662:ILE:CD1	2.29	0.62
1:Q:176:LEU:HB2	1:Q:196:TRP:HB2	1.80	0.62
1:T:19:LEU:HA	1:T:32:PRO:CB	2.29	0.62
1:Y:260:VAL:HB	1:Y:263:VAL:HA	1.81	0.62
1:A:123:LEU:HD11	1:A:143:TRP:CD1	2.33	0.62
1:A:36:ILE:HG13	1:A:36:ILE:O	2.17	0.62
1:A:600:ARG:NH1	1:A:622:ALA:HB3	2.15	0.62
1:B:501:SER:HB3	1:B:508:PRO:HA	1.81	0.62
1:C:154:GLN:HG3	1:C:155:LYS:N	2.14	0.62
1:C:587:THR:HG23	1:C:590:ASP:HB2	1.82	0.62
1:E:452:ARG:HG3	1:E:452:ARG:NH1	2.14	0.62
1:F:472:ASP:HA	1:F:493:GLU:HB3	1.89	0.62
1:G:67:ARG:NH2	1:G:107:LYS:HA	2.56	0.62
1:I:123:LEU:HD11	1:I:143:TRP:HD1	1.92	0.62
1:I:159:VAL:HG12	1:I:160:VAL:HG22	1.81	0.62
1:I:4:GLU:OE2	1:I:6:ALA:HB2	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:234:ASN:HA	1:J:243:HIS:O	2.00	0.62
1:K:326:LEU:CD2	1:K:333:LEU:HG	2.35	0.62
1:K:5:GLU:CG	1:K:43:VAL:HG21	2.57	0.62
1:L:169:LYS:HG3	1:L:170:GLN:H	1.95	0.62
1:L:5:GLU:CG	1:L:43:VAL:HG21	2.27	0.62
1:L:571:ALA:O	1:L:575:ILE:HG13	3.37	0.62
1:L:67:ARG:HH21	1:L:107:LYS:HA	1.72	0.62
1:M:182:CYS:SG	1:M:208:VAL:CB	2.87	0.62
1:N:587:THR:HG23	1:N:590:ASP:CB	2.29	0.62
1:P:273:ILE:HG21	1:P:316:LEU:HD11	1.81	0.62
1:Q:70:GLN:HG2	1:Q:104:VAL:H	1.64	0.62
1:Q:252:THR:H	1:Q:254:GLN:NE2	1.98	0.62
1:Q:802:LEU:HD12	1:Q:806:THR:HG22	1.81	0.62
1:R:123:LEU:HD11	1:R:143:TRP:HD1	1.64	0.62
1:T:220:ILE:CD1	1:T:251:VAL:HG13	2.29	0.62
1:T:54:PRO:CB	1:T:55:PRO:HD3	2.26	0.62
1:U:387:GLY:HA3	1:U:402:ILE:HG22	1.82	0.62
1:U:18:VAL:CG1	1:U:48:VAL:HG22	2.21	0.62
1:V:580:ARG:HH22	1:W:595:SER:HB2	1.65	0.62
1:W:252:THR:H	1:W:254:GLN:NE2	1.97	0.62
1:X:252:THR:H	1:X:254:GLN:NE2	1.97	0.62
1:Y:109:ILE:CD1	1:Y:153:PRO:HG2	2.29	0.62
1:A:14:HIS:NE2	1:A:16:ILE:CD1	2.62	0.62
1:A:807:ILE:HD12	1:B:806:THR:HG21	3.38	0.62
1:C:242:LEU:H	1:C:242:LEU:HD23	1.64	0.62
1:C:377:ARG:NH1	1:C:408:LEU:O	3.81	0.62
1:C:415:TRP:CZ3	1:C:417:LYS:HB3	2.34	0.62
1:C:43:VAL:HG12	1:C:45:PHE:O	2.00	0.62
1:C:601:MET:HG2	1:C:622:ALA:CB	2.29	0.62
1:E:190:ARG:O	1:E:191:VAL:HG23	2.00	0.62
1:E:221:LEU:HD22	1:E:256:THR:HB	1.96	0.62
1:F:152:ILE:HD12	1:F:152:ILE:O	1.99	0.62
1:F:46:ALA:N	1:F:47:PRO:CD	2.62	0.62
1:F:60:ILE:HD12	1:F:92:LEU:O	4.45	0.62
1:G:221:LEU:CD2	1:G:256:THR:CG2	3.16	0.62
1:G:649:ARG:HH21	1:H:655:GLN:HG2	1.64	0.62
1:H:220:ILE:CD1	1:H:251:VAL:HG13	2.65	0.62
1:H:287:PRO:O	1:H:295:GLN:HB2	2.19	0.62
1:H:46:ALA:N	1:H:47:PRO:HD3	2.24	0.62
1:H:587:THR:HG23	1:H:590:ASP:CB	2.29	0.62
1:J:230:ARG:HB3	1:J:230:ARG:HH11	1.65	0.62
1:J:517:LEU:H	1:J:517:LEU:HD12	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:115:VAL:N	1:K:118:ASN:ND2	2.63	0.62
1:M:67:ARG:HH21	1:M:107:LYS:HA	1.69	0.62
1:M:15:TYR:HA	1:M:53:VAL:HB	1.80	0.62
1:N:311:GLN:HB3	1:N:312:PRO:HD2	1.81	0.62
1:P:338:GLN:OE1	1:Q:278:PRO:HB2	1.99	0.62
1:Q:326:LEU:HD11	1:Q:359:ILE:CD1	2.29	0.62
1:Q:452:ARG:NH1	1:Q:454:LYS:HA	2.14	0.62
1:Q:56:ARG:HH11	1:Q:99:LEU:HD23	1.64	0.62
1:S:679:ARG:HG3	1:T:691:GLN:HE22	1.65	0.62
1:T:120:ALA:HB2	1:T:164:GLN:NE2	2.15	0.62
1:S:394:LYS:CG	1:T:329:GLN:HG3	2.21	0.62
1:U:459:SER:HB3	1:U:488:THR:HG22	1.82	0.62
1:V:796:LYS:HA	1:V:799:THR:HG22	1.81	0.62
1:W:469:GLN:HB3	1:W:496:THR:CG2	2.30	0.62
1:X:24:ASN:HD22	1:X:30:VAL:HB	1.64	0.62
1:X:8:ILE:HG22	1:X:40:ASN:ND2	2.14	0.62
1:Y:327:SER:HB2	1:Y:331:GLY:CA	2.29	0.62
1:Y:340:LEU:HD23	1:Y:352:GLN:HA	1.81	0.62
1:Z:204:TYR:O	1:Z:206:PRO:HD3	1.98	0.62
1:Z:506:LYS:HE2	1:Z:524:THR:O	1.98	0.62
1:Z:587:THR:HG23	1:Z:590:ASP:CB	2.29	0.62
1:A:16:ILE:HA	1:A:34:THR:OG1	1.99	0.62
1:A:73:VAL:HG11	1:A:82:ARG:HB2	1.82	0.62
1:B:377:ARG:NH1	1:B:408:LEU:O	2.32	0.62
1:B:697:SER:HB3	1:C:706:LEU:HB2	1.81	0.62
1:C:14:HIS:CB	1:C:56:ARG:CB	2.77	0.62
1:C:16:ILE:HB	1:C:51:VAL:HB	2.03	0.62
1:D:165:ALA:CB	1:D:174:LEU:HD11	2.29	0.62
1:E:227:LEU:O	1:E:250:LEU:HA	2.00	0.62
1:G:10:ILE:HD13	1:G:13:TYR:CE2	2.35	0.62
1:H:500:LEU:HA	1:H:566:ASP:OD1	1.99	0.62
1:I:164:GLN:HB3	1:I:204:TYR:HA	1.81	0.62
1:J:6:ALA:N	1:J:7:ILE:HD12	5.09	0.62
1:K:128:ASP:HB2	1:K:155:LYS:HB3	1.82	0.62
1:K:419:LEU:CG	1:K:420:PRO:HD2	2.24	0.62
1:K:597:ARG:HG3	1:K:600:ARG:HH21	1.65	0.62
1:K:601:MET:HG2	1:K:622:ALA:HB2	1.80	0.62
1:K:771:ILE:HD13	1:K:774:ARG:HH12	3.79	0.62
1:L:794:LYS:O	1:L:798:MET:HG2	2.00	0.62
1:P:734:ARG:HH21	1:P:735:ILE:CD1	2.13	0.62
1:O:49:ARG:NH2	1:P:8:ILE:CD1	2.57	0.62
1:Q:159:VAL:HG12	1:Q:160:VAL:HG22	1.82	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:333:LEU:HB2	1:R:359:ILE:HD11	1.81	0.62
1:R:36:ILE:O	1:R:37:ARG:HG3	1.98	0.62
1:S:729:ARG:NH1	1:S:729:ARG:HB2	2.15	0.62
1:T:54:PRO:HB2	1:T:55:PRO:CD	2.23	0.62
1:U:359:ILE:HD12	1:U:359:ILE:O	2.00	0.62
1:U:527:ILE:HD11	1:U:539:LEU:HB2	1.81	0.62
1:V:469:GLN:HB3	1:V:496:THR:HG21	1.82	0.62
1:V:633:LEU:HD23	1:V:634:VAL:N	2.15	0.62
1:Y:332:LEU:HB2	1:Y:377:ARG:HB3	1.80	0.62
1:Y:587:THR:HG23	1:Y:590:ASP:HB3	1.81	0.62
1:Z:77:ILE:HG13	1:Z:79:GLY:H	1.65	0.62
1:A:10:ILE:HD13	1:A:13:TYR:CE2	2.72	0.62
1:A:221:LEU:HD22	1:A:256:THR:CG2	2.69	0.62
1:B:165:ALA:CB	1:B:174:LEU:HD11	2.41	0.62
1:B:19:LEU:HD23	1:B:32:PRO:HB2	1.80	0.62
1:B:205:LEU:HD22	1:B:211:GLU:HB2	1.81	0.62
1:B:419:LEU:HD23	1:B:421:SER:H	1.64	0.62
1:D:14:HIS:CB	1:D:56:ARG:HB2	2.29	0.62
1:D:394:LYS:HA	1:E:329:GLN:NE2	2.30	0.62
1:E:36:ILE:O	1:E:37:ARG:HG3	1.99	0.62
1:F:284:ILE:HD13	1:F:300:ARG:O	2.24	0.62
1:G:175:ARG:HG3	1:G:215:LEU:HD23	1.81	0.62
1:G:54:PRO:CB	1:G:55:PRO:HD3	2.24	0.62
1:J:262:ASP:HB3	1:J:264:TYR:CE1	2.34	0.62
1:K:327:SER:HB2	1:K:331:GLY:HA2	2.68	0.62
1:K:43:VAL:HG12	1:K:45:PHE:O	2.01	0.62
1:L:15:TYR:HA	1:L:53:VAL:HB	2.07	0.62
1:L:328:GLU:CA	1:L:328:GLU:OE1	4.41	0.62
1:M:65:VAL:HG12	1:M:110:THR:CG2	2.52	0.62
1:O:185:ARG:HH22	1:O:207:ALA:HB3	1.64	0.62
1:P:213:LEU:HD13	1:P:214:ASP:H	1.65	0.62
1:R:481:VAL:HG11	1:R:487:VAL:CG1	2.30	0.62
1:T:494:GLN:NE2	1:T:494:GLN:HA	2.14	0.62
1:V:704:LYS:HD2	1:W:712:MET:HB3	1.80	0.62
1:W:605:GLY:O	1:W:623:ARG:HB2	1.99	0.62
1:A:116:LEU:CB	1:A:117:PRO:HD2	2.15	0.62
1:A:284:ILE:HD11	1:A:300:ARG:HB3	2.68	0.62
1:A:5:GLU:CG	1:A:43:VAL:HG21	2.33	0.62
1:A:755:THR:HG21	1:B:761:ARG:HG2	1.81	0.62
1:C:794:LYS:O	1:C:798:MET:HG2	2.20	0.62
1:D:152:ILE:HD11	1:D:156:GLU:OE2	2.42	0.62
1:D:527:ILE:HD12	1:D:527:ILE:C	2.20	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:8:ILE:HG22	1:D:40:ASN:ND2	2.25	0.62
1:G:182:CYS:SG	1:G:208:VAL:CG2	2.97	0.62
1:G:337:LEU:HD22	1:G:357:TRP:CZ3	2.52	0.62
1:G:571:ALA:O	1:G:575:ILE:HG12	1.99	0.62
1:G:30:VAL:HG22	1:G:74:LEU:HG	2.19	0.62
1:H:490:ASP:CG	1:H:491:PRO:HD2	2.20	0.62
1:I:261:PRO:HD2	1:I:264:TYR:HB2	2.03	0.62
1:I:580:ARG:HH22	1:J:595:SER:HB2	2.25	0.62
1:J:185:ARG:NH1	1:J:206:PRO:HB3	2.15	0.62
1:J:221:LEU:HA	1:J:253:VAL:HG13	2.18	0.62
1:J:43:VAL:HG12	1:J:45:PHE:O	2.00	0.62
1:K:67:ARG:CD	1:K:108:ASP:HB3	2.30	0.62
1:L:394:LYS:HG2	1:M:329:GLN:CG	2.35	0.62
1:L:762:VAL:O	1:L:766:ARG:HB2	1.99	0.62
1:M:100:TYR:HB3	1:M:101:PRO:HD2	2.09	0.62
1:M:472:ASP:HA	1:M:493:GLU:CB	2.40	0.62
1:N:175:ARG:NE	1:N:263:VAL:HG22	2.14	0.62
1:S:511:ARG:NH2	1:S:517:LEU:HD11	2.14	0.62
1:S:73:VAL:N	1:S:84:ARG:HB2	2.14	0.62
1:U:185:ARG:HH22	1:U:207:ALA:HB3	1.64	0.62
1:U:542:ALA:HB3	1:U:639:ASP:HB2	1.81	0.62
1:X:185:ARG:HH22	1:X:207:ALA:HB3	1.65	0.62
1:X:164:GLN:NE2	1:X:204:TYR:HB2	2.13	0.62
1:Y:36:ILE:O	1:Y:36:ILE:HG13	1.99	0.62
1:Z:230:ARG:HG2	1:Z:248:GLU:HG2	1.80	0.62
1:A:176:LEU:HB2	1:A:196:TRP:HB2	1.93	0.61
1:A:533:ASP:OD1	1:A:587:THR:HA	2.13	0.61
1:B:601:MET:HG3	1:B:622:ALA:HB2	1.82	0.61
1:C:464:HIS:CD2	1:C:484:PRO:HB3	2.93	0.61
1:D:261:PRO:HD2	1:D:264:TYR:HB2	1.86	0.61
1:G:221:LEU:HD21	1:G:256:THR:HG21	2.87	0.61
1:H:229:LEU:O	1:H:248:GLU:HA	2.00	0.61
1:H:252:THR:O	1:H:254:GLN:N	2.64	0.61
1:H:330:GLN:OE1	1:H:330:GLN:HA	1.99	0.61
1:I:358:LEU:HD13	1:I:377:ARG:NH1	2.44	0.61
1:I:745:LYS:CG	1:J:753:ILE:HD11	2.82	0.61
1:L:109:ILE:HD11	1:L:153:PRO:CG	2.27	0.61
1:L:279:ARG:HG3	1:L:280:HIS:HD2	1.65	0.61
1:M:185:ARG:NH1	1:M:206:PRO:HB3	2.15	0.61
1:M:286:ASP:HB3	1:M:296:LEU:HA	2.41	0.61
1:M:459:SER:CB	1:M:488:THR:HG22	2.23	0.61
1:N:273:ILE:HG21	1:N:316:LEU:HD11	1.80	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:115:VAL:H	1:O:118:ASN:ND2	1.93	0.61
1:O:220:ILE:HD13	1:O:251:VAL:HG13	1.82	0.61
1:O:501:SER:HB3	1:O:507:ARG:O	2.00	0.61
1:P:243:HIS:NE2	1:P:249:TRP:CE2	2.68	0.61
1:Q:394:LYS:HG2	1:R:329:GLN:HG3	1.82	0.61
1:S:273:ILE:HD12	1:S:316:LEU:HD21	1.81	0.61
1:T:123:LEU:HA	1:T:158:GLU:HA	1.82	0.61
1:T:268:LEU:HD13	1:T:269:GLY:H	1.65	0.61
1:T:284:ILE:CD1	1:T:300:ARG:HB3	2.30	0.61
1:U:252:THR:H	1:U:254:GLN:NE2	1.98	0.61
1:U:221:LEU:HD22	1:U:256:THR:CB	2.29	0.61
1:V:16:ILE:HB	1:V:51:VAL:HB	1.80	0.61
1:V:14:HIS:HB3	1:V:56:ARG:HB2	1.81	0.61
1:X:762:VAL:O	1:X:766:ARG:HB2	2.00	0.61
1:A:185:ARG:NH1	1:A:206:PRO:HB3	2.68	0.61
1:A:394:LYS:HG2	1:B:329:GLN:CG	2.30	0.61
1:B:587:THR:HG23	1:B:590:ASP:HB3	1.92	0.61
1:C:113:GLN:O	1:C:114:VAL:HG13	2.17	0.61
1:C:284:ILE:HD13	1:C:300:ARG:O	5.02	0.61
1:C:408:LEU:H	1:C:408:LEU:HD12	1.64	0.61
1:D:418:GLU:OE2	1:D:452:ARG:NH1	2.34	0.61
1:E:729:ARG:NH1	1:E:729:ARG:HB2	2.33	0.61
1:G:18:VAL:HG13	1:G:48:VAL:CG2	2.37	0.61
1:I:185:ARG:HG3	1:I:206:PRO:HB3	1.81	0.61
1:K:539:LEU:HA	1:K:642:SER:O	2.00	0.61
1:L:327:SER:CB	1:L:331:GLY:HA3	2.29	0.61
1:M:507:ARG:HB2	1:M:510:ALA:HB2	2.45	0.61
1:N:579:VAL:HG22	1:N:599:ILE:HD12	1.81	0.61
1:P:766:ARG:O	1:P:770:LEU:HB2	2.00	0.61
1:Q:654:LEU:HD11	1:R:662:ILE:HG21	1.80	0.61
1:T:284:ILE:HD13	1:T:300:ARG:O	1.99	0.61
1:T:14:HIS:HB3	1:T:56:ARG:HB2	1.80	0.61
1:X:183:PHE:HD2	1:X:184:ASP:H	1.45	0.61
1:X:587:THR:HG23	1:X:590:ASP:CB	2.30	0.61
1:Y:796:LYS:CA	1:Y:799:THR:HG22	2.25	0.61
1:Z:262:ASP:HB3	1:Z:264:TYR:OH	1.99	0.61
1:A:384:GLN:H	1:A:384:GLN:NE2	1.97	0.61
1:A:563:SER:HB3	1:B:520:PRO:HG3	2.24	0.61
1:B:124:LYS:HG2	1:B:157:VAL:O	2.24	0.61
1:B:20:ASP:N	1:B:49:ARG:HD3	4.17	0.61
1:B:469:GLN:HB3	1:B:496:THR:HG21	1.91	0.61
1:D:152:ILE:H	1:D:152:ILE:CD1	2.33	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:60:ILE:N	1:D:60:ILE:HD13	3.52	0.61
1:E:284:ILE:HD11	1:E:300:ARG:HB3	2.51	0.61
1:F:273:ILE:HG23	1:F:310:LEU:HD11	1.94	0.61
1:H:196:TRP:HA	1:H:196:TRP:HE3	1.63	0.61
1:H:5:GLU:CG	1:H:43:VAL:HG21	2.63	0.61
1:K:527:ILE:HD13	1:K:539:LEU:O	1.98	0.61
1:L:244:ARG:HB3	1:M:221:LEU:CD2	2.30	0.61
1:K:476:LYS:HE2	1:L:485:GLU:HG3	2.09	0.61
1:L:796:LYS:HA	1:L:799:THR:HG22	1.90	0.61
1:M:387:GLY:HA3	1:M:402:ILE:HG22	1.92	0.61
1:N:220:ILE:HD13	1:N:251:VAL:HG13	1.82	0.61
1:O:220:ILE:HD12	1:O:252:THR:HA	1.83	0.61
1:Q:279:ARG:HG3	1:Q:280:HIS:HD2	1.66	0.61
1:Q:470:VAL:HB	1:Q:479:ARG:HD2	1.81	0.61
1:Q:802:LEU:HD12	1:Q:806:THR:CG2	2.29	0.61
1:S:220:ILE:HD13	1:S:251:VAL:HG13	1.82	0.61
1:W:36:ILE:HG21	1:W:99:LEU:HD13	1.81	0.61
1:W:704:LYS:HD2	1:X:712:MET:HB3	1.82	0.61
1:Z:623:ARG:HG3	1:Z:624:ASP:H	1.64	0.61
1:A:402:ILE:H	1:A:402:ILE:HD13	1.65	0.61
1:A:753:ILE:CD1	1:Z:745:LYS:HG3	172.06	0.61
1:B:183:PHE:HE2	1:B:188:LYS:HA	2.65	0.61
1:B:419:LEU:HD12	1:B:494:GLN:HE21	1.80	0.61
1:D:132:LYS:HZ2	1:D:152:ILE:HD11	2.98	0.61
1:D:185:ARG:HH22	1:D:207:ALA:HB3	1.75	0.61
1:D:245:THR:O	1:E:221:LEU:HD23	2.00	0.61
1:F:382:LEU:HD13	1:F:387:GLY:HA2	1.91	0.61
1:G:60:ILE:HG13	1:G:92:LEU:O	3.84	0.61
1:H:176:LEU:HB2	1:H:196:TRP:HB2	1.92	0.61
1:H:273:ILE:HD12	1:H:316:LEU:HD21	1.82	0.61
1:H:46:ALA:N	1:H:47:PRO:CD	2.64	0.61
1:H:90:ILE:N	1:H:90:ILE:CD1	3.45	0.61
1:I:208:VAL:HG23	1:I:209:PHE:HD2	1.72	0.61
1:J:199:ARG:HH21	1:J:258:ALA:HB3	1.64	0.61
1:J:46:ALA:N	1:J:47:PRO:CD	2.63	0.61
1:K:180:LYS:HD2	1:K:208:VAL:HG12	2.22	0.61
1:K:704:LYS:HD2	1:L:712:MET:HB3	1.87	0.61
1:L:54:PRO:CB	1:L:55:PRO:HD3	2.13	0.61
1:L:653:ALA:CB	1:M:662:ILE:HD12	2.29	0.61
1:M:30:VAL:HG13	1:M:74:LEU:HD11	1.94	0.61
1:N:175:ARG:HA	1:N:196:TRP:O	1.99	0.61
1:O:579:VAL:HG22	1:O:599:ILE:HD12	1.81	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:185:ARG:HH22	1:Q:207:ALA:HB3	1.63	0.61
1:Q:221:LEU:HD22	1:Q:256:THR:CG2	2.26	0.61
1:Q:338:GLN:HB2	1:Q:339:PRO:HD3	1.82	0.61
1:Q:543:TYR:CE2	1:Q:575:ILE:HG21	2.36	0.61
1:R:408:LEU:HD12	1:R:408:LEU:H	1.65	0.61
1:R:564:VAL:CG2	1:R:631:ASN:HD22	2.14	0.61
1:S:164:GLN:CD	1:S:204:TYR:HB3	2.20	0.61
1:T:152:ILE:HD12	1:T:152:ILE:O	2.00	0.61
1:T:183:PHE:HE2	1:T:188:LYS:HA	1.65	0.61
1:U:284:ILE:HD13	1:U:284:ILE:N	2.14	0.61
1:U:419:LEU:HG	1:U:420:PRO:CD	2.19	0.61
1:W:273:ILE:HG21	1:W:316:LEU:HD11	1.81	0.61
1:W:359:ILE:HD12	1:W:359:ILE:O	2.01	0.61
1:Y:115:VAL:O	1:Y:118:ASN:HB3	2.01	0.61
1:Y:220:ILE:CD1	1:Y:256:THR:HA	2.30	0.61
1:Y:302:VAL:HG21	1:Y:308:PHE:HE2	1.64	0.61
1:A:654:LEU:CD1	1:B:662:ILE:HD13	2.31	0.61
1:C:803:GLY:HA3	1:C:806:THR:HB	1.96	0.61
1:D:4:GLU:OE2	1:D:6:ALA:HB2	1.99	0.61
1:E:249:TRP:N	1:E:249:TRP:CD1	2.68	0.61
1:E:579:VAL:HG13	1:E:599:ILE:CD1	2.78	0.61
1:E:70:GLN:HG2	1:E:104:VAL:HG12	2.21	0.61
1:F:296:LEU:HD22	1:F:296:LEU:H	2.81	0.61
1:F:36:ILE:O	1:F:37:ARG:HG3	2.04	0.61
1:H:3:THR:HG22	1:H:50:MET:HE1	2.52	0.61
1:H:529:ILE:HD13	1:H:583:VAL:HG11	2.04	0.61
1:I:676:GLU:HA	1:I:676:GLU:OE1	2.16	0.61
1:J:244:ARG:N	1:J:247:GLU:OE1	2.29	0.61
1:J:517:LEU:O	1:J:545:TRP:HH2	1.84	0.61
1:J:540:GLN:HB3	1:J:641:GLN:HE21	1.64	0.61
1:J:7:ILE:HD12	1:J:7:ILE:N	4.44	0.61
1:J:90:ILE:HD12	1:J:90:ILE:O	2.32	0.61
1:K:408:LEU:H	1:K:408:LEU:HD12	1.73	0.61
1:K:600:ARG:O	1:K:604:PHE:HD1	2.59	0.61
1:K:662:ILE:O	1:K:666:THR:HB	2.37	0.61
1:L:171:ASN:O	1:L:216:VAL:HA	2.00	0.61
1:L:734:ARG:HH21	1:L:735:ILE:CD1	2.13	0.61
1:M:115:VAL:H	1:M:118:ASN:ND2	2.24	0.61
1:M:123:LEU:HA	1:M:158:GLU:HA	2.02	0.61
1:M:474:ARG:HA	1:N:385:ASN:OD1	2.00	0.61
1:N:224:LYS:HA	1:N:272:PRO:HG3	1.83	0.61
1:O:115:VAL:HB	1:O:148:PRO:HA	1.83	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:130:GLU:H	1:Q:137:VAL:CG1	2.13	0.61
1:Q:196:TRP:HA	1:Q:196:TRP:CE3	2.35	0.61
1:S:402:ILE:H	1:S:402:ILE:HD13	1.66	0.61
1:X:221:LEU:CD2	1:X:256:THR:HG21	2.28	0.61
1:Y:395:THR:HG21	1:Y:397:LYS:HE2	1.83	0.61
1:Y:332:LEU:HD21	1:Y:407:MET:HB3	1.81	0.61
1:C:507:ARG:HB2	1:C:510:ALA:HB2	1.82	0.61
1:C:73:VAL:HG11	1:C:82:ARG:HB2	2.30	0.61
1:D:14:HIS:NE2	1:D:16:ILE:CD1	2.64	0.61
1:D:518:LEU:HA	1:D:547:PHE:HD1	1.66	0.61
1:E:217:ASP:OD1	1:E:218:ALA:N	2.54	0.61
1:F:795:PHE:O	1:F:799:THR:HG22	2.52	0.61
1:G:151:TYR:CD2	1:G:152:ILE:HD13	2.43	0.61
1:G:109:ILE:HD12	1:G:153:PRO:HG2	2.60	0.61
1:G:281:TYR:CD2	1:G:366:VAL:HG13	2.35	0.61
1:I:472:ASP:HA	1:I:493:GLU:HB3	1.81	0.61
1:J:281:TYR:HE1	1:J:321:GLN:HB2	1.63	0.61
1:K:55:PRO:O	1:K:56:ARG:HG2	2.00	0.61
1:J:745:LYS:CG	1:K:753:ILE:HD13	3.11	0.61
1:L:46:ALA:N	1:L:47:PRO:CD	2.64	0.61
1:L:485:GLU:HG2	1:L:486:LEU:H	1.64	0.61
1:L:485:GLU:HG2	1:L:486:LEU:N	2.14	0.61
1:O:123:LEU:HG	1:O:143:TRP:HB2	1.82	0.61
1:O:276:LEU:N	1:O:280:HIS:HB2	2.15	0.61
1:Q:182:CYS:SG	1:Q:208:VAL:CG2	2.88	0.61
1:Q:45:PHE:HB3	1:Q:47:PRO:HD2	1.83	0.61
1:Q:51:VAL:O	1:Q:53:VAL:HG23	2.00	0.61
1:Q:649:ARG:HH21	1:R:655:GLN:HG2	1.64	0.61
1:R:382:LEU:HB2	1:R:404:SER:O	2.00	0.61
1:S:152:ILE:H	1:S:152:ILE:HD13	1.63	0.61
1:S:384:GLN:H	1:S:384:GLN:HE21	1.48	0.61
1:S:685:ARG:O	1:S:689:GLU:HB2	2.00	0.61
1:T:517:LEU:O	1:T:545:TRP:HH2	1.83	0.61
1:V:276:LEU:N	1:V:280:HIS:HB2	2.16	0.61
1:X:9:ARG:NH1	1:X:36:ILE:HA	2.08	0.61
1:X:459:SER:HB2	1:X:488:THR:HG22	1.81	0.61
1:A:175:ARG:NE	1:A:263:VAL:HG22	2.28	0.61
1:A:294:ASN:HD21	1:A:313:GLY:HA3	2.06	0.61
1:A:419:LEU:HD12	1:A:494:GLN:NE2	2.69	0.61
1:A:587:THR:HG23	1:A:590:ASP:CB	2.42	0.61
1:A:802:LEU:HD12	1:A:806:THR:HG22	1.83	0.61
1:B:340:LEU:HG	1:B:353:ALA:HB2	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:90:ILE:HD12	1:B:90:ILE:O	1.99	0.61
1:C:72:SER:HB3	1:C:84:ARG:HH21	1.66	0.61
1:E:144:LEU:HD12	1:E:144:LEU:H	1.66	0.61
1:E:334:LEU:HD12	1:E:377:ARG:NH2	2.18	0.61
1:F:175:ARG:HE	1:F:263:VAL:HG22	2.12	0.61
1:F:279:ARG:HG3	1:F:280:HIS:CD2	3.04	0.61
1:G:281:TYR:HE1	1:G:321:GLN:HB2	1.66	0.61
1:G:338:GLN:HB3	1:G:339:PRO:HD3	2.28	0.61
1:G:596:ALA:O	1:G:600:ARG:HB2	2.00	0.61
1:H:284:ILE:HD11	1:H:300:ARG:HB3	1.83	0.61
1:G:745:LYS:HG3	1:H:753:ILE:HD13	2.19	0.61
1:I:184:ASP:HB3	1:I:187:GLY:O	2.45	0.61
1:J:109:ILE:HD12	1:J:153:PRO:HB2	1.83	0.61
1:J:734:ARG:HH21	1:J:735:ILE:HD13	1.63	0.61
1:L:120:ALA:HB3	1:L:162:ILE:HG13	2.26	0.61
1:N:262:ASP:HB3	1:N:264:TYR:CE1	2.35	0.61
1:M:338:GLN:NE2	1:N:279:ARG:HD3	2.15	0.61
1:N:340:LEU:HG	1:N:353:ALA:N	2.14	0.61
1:N:767:GLU:HG2	1:N:771:ILE:HD13	1.83	0.61
1:P:239:ARG:HH21	1:P:257:GLU:HG2	1.65	0.61
1:R:67:ARG:HG2	1:R:108:ASP:CB	2.31	0.61
1:R:587:THR:HG23	1:R:590:ASP:HB3	1.81	0.61
1:V:527:ILE:H	1:V:527:ILE:CD1	2.11	0.61
1:X:279:ARG:HG3	1:X:280:HIS:HD2	1.66	0.61
1:X:320:ILE:O	1:X:320:ILE:HD12	2.01	0.61
1:Y:18:VAL:H	1:Y:48:VAL:CG1	2.13	0.61
1:A:32:PRO:HG2	1:B:11:PRO:HG3	1.83	0.61
1:A:8:ILE:HG22	1:A:40:ASN:ND2	2.34	0.61
1:A:481:VAL:HG11	1:A:487:VAL:CG1	2.38	0.61
1:A:697:SER:HA	1:B:706:LEU:HD23	1.81	0.61
1:C:175:ARG:NE	1:C:263:VAL:HG22	2.15	0.61
1:C:529:ILE:HD13	1:C:583:VAL:HG11	1.82	0.61
1:D:10:ILE:HD13	1:D:13:TYR:CE2	2.36	0.61
1:D:10:ILE:HD13	1:D:13:TYR:CD2	2.48	0.61
1:D:338:GLN:OE1	1:E:278:PRO:HB2	2.00	0.61
1:F:64:PRO:HA	1:F:111:PRO:HD2	1.82	0.61
1:F:417:LYS:O	1:F:418:GLU:HB2	2.01	0.61
1:F:490:ASP:CG	1:F:491:PRO:HD2	2.21	0.61
1:H:122:HIS:HB3	1:H:159:VAL:HB	2.01	0.61
1:H:90:ILE:HD12	1:H:154:GLN:HB2	4.94	0.61
1:H:327:SER:O	1:H:328:GLU:HG2	2.00	0.61
1:H:452:ARG:HG3	1:H:452:ARG:HH11	1.67	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:106:GLU:O	1:I:107:LYS:HD2	2.05	0.61
1:I:167:VAL:HG22	1:I:201:VAL:HA	2.03	0.61
1:J:109:ILE:CD1	1:J:153:PRO:HB2	2.30	0.61
1:J:16:ILE:HD13	1:J:34:THR:HG21	1.96	0.61
1:J:452:ARG:HG3	1:J:452:ARG:HH11	1.75	0.61
1:K:113:GLN:O	1:K:114:VAL:HG13	2.01	0.61
1:K:273:ILE:HG23	1:K:310:LEU:HD11	1.90	0.61
1:L:92:LEU:HB2	1:L:94:GLN:HG2	1.83	0.61
1:O:205:LEU:HD22	1:O:211:GLU:HB2	1.81	0.61
1:P:180:LYS:C	1:P:182:CYS:N	2.53	0.61
1:S:474:ARG:HG3	1:S:492:GLU:HB2	1.81	0.61
1:V:472:ASP:HA	1:V:493:GLU:HB3	1.82	0.61
1:V:529:ILE:HD12	1:V:583:VAL:HG11	1.82	0.61
1:W:419:LEU:HD23	1:W:421:SER:H	1.66	0.61
1:W:496:THR:O	1:W:496:THR:CG2	2.49	0.61
1:W:526:VAL:HG22	1:W:540:GLN:HG2	1.83	0.61
1:Y:337:LEU:HD22	1:Y:357:TRP:CZ3	2.36	0.61
1:Z:28:VAL:HG12	1:Z:30:VAL:HG23	1.82	0.61
1:A:115:VAL:O	1:A:118:ASN:HB3	1.99	0.61
1:A:251:VAL:HG23	1:A:254:GLN:NE2	2.22	0.61
1:A:8:ILE:CD1	1:Z:49:ARG:NH2	288.29	0.61
1:B:328:GLU:CG	1:B:329:GLN:N	2.61	0.61
1:B:569:GLY:O	1:B:573:LYS:HB2	2.01	0.61
1:B:605:GLY:O	1:B:623:ARG:HB2	2.29	0.61
1:C:124:LYS:HG2	1:C:157:VAL:O	2.00	0.61
1:C:175:ARG:HE	1:C:263:VAL:HG22	1.73	0.61
1:C:36:ILE:C	1:C:36:ILE:HD13	2.21	0.61
1:D:354:GLY:O	1:E:328:GLU:HG3	5.37	0.61
1:D:67:ARG:HG2	1:D:108:ASP:HB3	1.83	0.61
1:D:77:ILE:HG13	1:D:79:GLY:N	2.94	0.61
1:E:192:THR:HG23	1:F:202:GLY:HA3	2.39	0.61
1:E:252:THR:H	1:E:254:GLN:NE2	2.23	0.61
1:F:273:ILE:HG21	1:F:316:LEU:HD11	1.83	0.61
1:F:575:ILE:HD12	1:F:603:VAL:HG13	5.91	0.61
1:H:342:GLU:O	1:H:350:SER:HA	2.00	0.61
1:H:408:LEU:HD21	1:H:414:LEU:CD1	3.00	0.61
1:I:16:ILE:HA	1:I:34:THR:OG1	2.09	0.61
1:J:390:VAL:HG12	1:J:408:LEU:HD23	2.00	0.61
1:J:526:VAL:HG22	1:J:540:GLN:HG2	1.87	0.61
1:K:130:GLU:N	1:K:137:VAL:HG12	4.14	0.61
1:L:452:ARG:HG3	1:L:452:ARG:HH11	1.92	0.61
1:L:51:VAL:O	1:L:53:VAL:HG23	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:106:GLU:O	1:N:107:LYS:HD2	2.01	0.61
1:N:529:ILE:CD1	1:N:539:LEU:HD11	2.31	0.61
1:Q:273:ILE:CG2	1:Q:310:LEU:HD11	2.29	0.61
1:R:61:VAL:HG13	1:R:65:VAL:CG2	2.30	0.61
1:T:511:ARG:HH22	1:T:517:LEU:HD11	1.65	0.61
1:U:771:ILE:HD13	1:U:774:ARG:HH11	1.63	0.61
1:V:65:VAL:HG12	1:V:110:THR:CG2	2.30	0.61
1:V:296:LEU:HD22	1:V:296:LEU:N	2.16	0.61
1:V:4:GLU:OE2	1:V:6:ALA:HB2	2.01	0.61
1:W:465:ASN:HB3	1:W:519:GLY:HA3	1.83	0.61
1:A:560:LYS:HD2	1:A:630:GLN:O	2.19	0.61
1:B:100:TYR:HB3	1:B:101:PRO:HD2	1.83	0.61
1:B:339:PRO:HG2	1:B:370:LYS:HE2	1.83	0.61
1:E:106:GLU:O	1:E:107:LYS:HD2	2.00	0.61
1:E:51:VAL:O	1:E:53:VAL:HG23	2.34	0.61
1:F:164:GLN:HB3	1:F:204:TYR:HA	1.88	0.61
1:F:29:GLU:O	1:F:84:ARG:NH1	2.33	0.61
1:H:22:ASN:ND2	1:I:39:ASP:HB3	2.16	0.61
1:H:485:GLU:HG2	1:H:486:LEU:H	1.94	0.61
1:I:10:ILE:HD13	1:I:13:TYR:CE2	2.48	0.61
1:I:476:LYS:HE2	1:J:485:GLU:HG3	2.27	0.61
1:J:234:ASN:ND2	1:J:245:THR:H	2.25	0.61
1:J:382:LEU:N	1:J:405:THR:HG22	2.15	0.61
1:J:408:LEU:HD12	1:J:408:LEU:H	1.70	0.61
1:K:529:ILE:HD12	1:K:537:LEU:HB2	2.22	0.61
1:L:3:THR:HG22	1:L:50:MET:CE	2.31	0.61
1:A:595:SER:CB	1:M:580:ARG:HH22	206.49	0.61
1:M:539:LEU:HD22	1:M:643:VAL:HG22	2.08	0.61
1:O:180:LYS:HD2	1:O:208:VAL:HG12	1.83	0.61
1:O:542:ALA:HB3	1:O:639:ASP:HB2	1.82	0.61
1:O:70:GLN:HB3	1:O:104:VAL:H	1.66	0.61
1:P:601:MET:CG	1:P:622:ALA:HB2	2.31	0.61
1:Q:113:GLN:HG2	1:Q:150:THR:HB	1.83	0.61
1:Q:419:LEU:CG	1:Q:420:PRO:HD2	2.21	0.61
1:Q:389:TYR:CZ	1:Q:457:VAL:HA	2.36	0.61
1:Q:60:ILE:H	1:Q:60:ILE:HD12	1.64	0.61
1:R:533:ASP:OD1	1:R:587:THR:HA	2.00	0.61
1:S:1:MET:HE1	1:S:47:PRO:HB3	1.83	0.61
1:R:708:GLU:HG3	1:S:716:VAL:HG11	1.83	0.61
1:U:533:ASP:OD1	1:U:587:THR:HA	2.01	0.61
1:V:182:CYS:SG	1:V:208:VAL:HB	2.41	0.61
1:Y:182:CYS:SG	1:Y:208:VAL:CG2	2.89	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:332:LEU:HG	1:Y:360:ARG:HB2	1.82	0.61
1:Y:417:LYS:O	1:Y:418:GLU:HB2	2.00	0.61
1:B:30:VAL:HG13	1:B:74:LEU:HD11	2.14	0.60
1:C:16:ILE:HD11	1:C:56:ARG:NH2	2.15	0.60
1:C:18:VAL:CG1	1:C:48:VAL:HG22	2.25	0.60
1:C:58:TYR:HD1	1:C:99:LEU:HD12	2.05	0.60
1:D:159:VAL:HG12	1:D:160:VAL:HG22	1.83	0.60
1:E:122:HIS:HB3	1:E:159:VAL:HB	1.82	0.60
1:E:506:LYS:HE2	1:E:524:THR:O	2.01	0.60
1:F:340:LEU:HG	1:F:353:ALA:H	1.66	0.60
1:G:227:LEU:O	1:G:250:LEU:HA	2.00	0.60
1:G:229:LEU:HD23	1:G:266:GLU:HA	1.83	0.60
1:G:600:ARG:O	1:G:604:PHE:HD1	1.84	0.60
1:H:759:LEU:HD22	1:I:768:MET:HG3	1.83	0.60
1:I:10:ILE:CG2	1:I:11:PRO:HD2	2.31	0.60
1:I:183:PHE:HE2	1:I:188:LYS:HA	1.66	0.60
1:I:18:VAL:H	1:I:48:VAL:CG1	2.11	0.60
1:I:18:VAL:N	1:I:48:VAL:HG13	2.12	0.60
1:K:36:ILE:O	1:K:37:ARG:HG3	2.04	0.60
1:L:380:ILE:HD12	1:L:406:TYR:O	2.01	0.60
1:M:14:HIS:HB3	1:M:56:ARG:HG3	1.83	0.60
1:M:194:GLU:HG2	1:M:195:GLU:H	1.93	0.60
1:M:14:HIS:HB3	1:M:56:ARG:CG	2.31	0.60
1:A:691:GLN:HE22	1:M:679:ARG:HG3	183.01	0.60
1:N:419:LEU:HD23	1:N:421:SER:H	1.65	0.60
1:P:5:GLU:HG2	1:P:43:VAL:CG2	2.31	0.60
1:P:65:VAL:HG12	1:P:110:THR:HG22	1.83	0.60
1:Q:215:LEU:HD12	1:Q:259:HIS:NE2	2.16	0.60
1:R:180:LYS:C	1:R:182:CYS:H	2.02	0.60
1:R:73:VAL:H	1:R:84:ARG:CG	2.07	0.60
1:U:171:ASN:O	1:U:216:VAL:HA	2.01	0.60
1:U:363:LEU:HD13	1:U:364:GLU:H	1.65	0.60
1:U:529:ILE:HG22	1:U:580:ARG:HB2	1.82	0.60
1:U:594:ASN:O	1:U:597:ARG:N	2.34	0.60
1:V:587:THR:HG23	1:V:590:ASP:HB3	1.82	0.60
1:Z:332:LEU:HD23	1:Z:358:LEU:HD11	1.81	0.60
1:Z:3:THR:HG22	1:Z:50:MET:CE	2.30	0.60
1:Z:485:GLU:HG2	1:Z:486:LEU:N	2.16	0.60
1:A:69:THR:HA	1:A:106:GLU:HB3	1.83	0.60
1:B:20:ASP:CB	1:B:49:ARG:HD2	3.73	0.60
1:C:109:ILE:HD12	1:C:153:PRO:HG2	1.83	0.60
1:E:252:THR:O	1:E:254:GLN:N	2.45	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:19:LEU:HA	1:E:32:PRO:HB2	1.95	0.60
1:E:560:LYS:HD2	1:E:630:GLN:O	2.00	0.60
1:F:802:LEU:HD12	1:F:806:THR:HG22	2.58	0.60
1:G:114:VAL:HA	1:G:118:ASN:ND2	2.51	0.60
1:G:334:LEU:HD12	1:G:377:ARG:NH2	2.42	0.60
1:G:601:MET:HG3	1:G:622:ALA:HB2	2.28	0.60
1:G:701:LYS:HG3	1:H:709:LEU:HD13	1.83	0.60
1:H:109:ILE:CD1	1:H:153:PRO:CB	2.63	0.60
1:H:358:LEU:HD13	1:H:377:ARG:NH1	2.70	0.60
1:J:14:HIS:HB3	1:J:56:ARG:HG3	1.82	0.60
1:J:72:SER:HB3	1:J:84:ARG:HH21	2.02	0.60
1:K:175:ARG:HH21	1:K:263:VAL:HG13	1.65	0.60
1:K:601:MET:CG	1:K:622:ALA:HB2	2.31	0.60
1:M:43:VAL:HG12	1:M:45:PHE:O	2.00	0.60
1:S:389:TYR:CZ	1:S:457:VAL:HA	2.36	0.60
1:V:654:LEU:CD1	1:W:662:ILE:HD13	2.31	0.60
1:X:109:ILE:HD12	1:X:153:PRO:CB	2.31	0.60
1:X:244:ARG:O	1:X:247:GLU:HB2	2.00	0.60
1:X:251:VAL:HG21	1:X:257:GLU:HG2	1.83	0.60
1:Z:490:ASP:CG	1:Z:491:PRO:HD2	2.22	0.60
1:A:252:THR:H	1:A:254:GLN:NE2	1.99	0.60
1:A:221:LEU:HA	1:A:253:VAL:HG13	1.83	0.60
1:C:130:GLU:HA	1:C:137:VAL:HG13	2.24	0.60
1:C:196:TRP:HA	1:C:196:TRP:CE3	2.36	0.60
1:C:384:GLN:NE2	1:C:384:GLN:H	2.14	0.60
1:E:328:GLU:HG3	1:E:329:GLN:N	2.17	0.60
1:E:327:SER:OG	1:E:331:GLY:HA3	2.01	0.60
1:E:529:ILE:CD1	1:E:537:LEU:HB2	2.30	0.60
1:F:106:GLU:O	1:F:107:LYS:HD2	2.17	0.60
1:F:526:VAL:HG22	1:F:540:GLN:HG2	2.02	0.60
1:F:90:ILE:HD13	1:F:90:ILE:H	1.67	0.60
1:G:151:TYR:HD2	1:G:152:ILE:HD13	1.66	0.60
1:G:60:ILE:HG22	1:G:66:SER:HA	2.08	0.60
1:H:326:LEU:O	1:H:328:GLU:HG2	5.22	0.60
1:I:337:LEU:HD22	1:I:357:TRP:CZ3	2.36	0.60
1:H:701:LYS:HG3	1:I:709:LEU:HD13	2.00	0.60
1:J:279:ARG:O	1:J:323:VAL:N	2.31	0.60
1:K:137:VAL:HG23	1:K:138:MET:H	1.65	0.60
1:K:382:LEU:N	1:K:405:THR:HG22	2.15	0.60
1:K:92:LEU:HB2	1:K:94:GLN:HG2	2.47	0.60
1:L:122:HIS:O	1:L:159:VAL:N	2.51	0.60
1:L:336:ALA:HA	1:L:356:CYS:CB	2.31	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:418:GLU:OE2	1:M:452:ARG:NH1	2.33	0.60
1:N:180:LYS:O	1:N:182:CYS:N	2.33	0.60
1:O:121:LEU:HB2	1:O:145:PHE:CB	2.31	0.60
1:O:319:GLY:C	1:O:320:ILE:HD13	2.22	0.60
1:O:336:ALA:H	1:O:374:VAL:HG23	1.67	0.60
1:Q:164:GLN:CD	1:Q:204:TYR:CB	2.65	0.60
1:Q:70:GLN:HE21	1:Q:104:VAL:HG12	1.66	0.60
1:Q:771:ILE:HD13	1:Q:774:ARG:HH11	1.67	0.60
1:R:182:CYS:SG	1:R:208:VAL:CG2	2.89	0.60
1:R:333:LEU:HB2	1:R:359:ILE:CD1	2.32	0.60
1:R:654:LEU:CD1	1:S:662:ILE:CD1	2.80	0.60
1:T:175:ARG:NE	1:T:263:VAL:HG22	2.16	0.60
1:U:45:PHE:HB3	1:U:47:PRO:HD2	1.83	0.60
1:U:73:VAL:H	1:U:84:ARG:CB	2.08	0.60
1:V:281:TYR:CE1	1:V:321:GLN:HB2	2.35	0.60
1:Y:204:TYR:O	1:Y:206:PRO:HD3	2.01	0.60
1:Y:522:PHE:CD2	1:Y:522:PHE:C	2.74	0.60
1:B:326:LEU:HD11	1:B:359:ILE:CD1	3.88	0.60
1:B:419:LEU:CD2	1:B:422:GLY:H	2.32	0.60
1:D:130:GLU:CB	1:D:136:LYS:HA	2.31	0.60
1:E:46:ALA:N	1:E:47:PRO:HD3	2.26	0.60
1:F:221:LEU:HD13	1:F:256:THR:HB	1.82	0.60
1:I:144:LEU:HD22	1:I:204:TYR:CE2	2.35	0.60
1:I:234:ASN:HD22	1:I:234:ASN:N	1.98	0.60
1:I:46:ALA:N	1:I:47:PRO:CD	2.68	0.60
1:J:340:LEU:HG	1:J:353:ALA:HB2	1.97	0.60
1:K:221:LEU:HD13	1:K:255:ASP:O	2.02	0.60
1:K:36:ILE:HG21	1:K:99:LEU:HD13	1.82	0.60
1:L:128:ASP:HB2	1:L:155:LYS:HB3	1.82	0.60
1:L:320:ILE:N	1:L:320:ILE:HD13	2.45	0.60
1:L:30:VAL:HG22	1:L:74:LEU:HG	1.83	0.60
1:M:527:ILE:HD13	1:M:529:ILE:HG23	5.88	0.60
1:O:419:LEU:HG	1:O:420:PRO:HD2	1.83	0.60
1:O:67:ARG:O	1:O:91:ARG:HB2	2.01	0.60
1:P:481:VAL:HG11	1:P:487:VAL:HG11	1.83	0.60
1:Q:252:THR:O	1:Q:254:GLN:N	2.34	0.60
1:Q:527:ILE:CD1	1:Q:539:LEU:HB2	2.31	0.60
1:R:382:LEU:N	1:R:405:THR:HG22	2.15	0.60
1:R:61:VAL:HG13	1:R:65:VAL:HG23	1.83	0.60
1:U:64:PRO:HA	1:U:111:PRO:HD2	1.82	0.60
1:U:182:CYS:SG	1:U:208:VAL:CG2	2.90	0.60
1:U:654:LEU:O	1:U:657:SER:HB3	2.02	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:221:LEU:CD2	1:V:256:THR:CG2	2.79	0.60
1:W:796:LYS:HA	1:W:799:THR:HG22	1.82	0.60
1:X:64:PRO:HA	1:X:111:PRO:HD2	1.83	0.60
1:X:182:CYS:O	1:X:190:ARG:HB2	2.01	0.60
1:Y:396:GLY:CA	1:Z:405:THR:HG23	2.32	0.60
1:Y:332:LEU:HD21	1:Y:407:MET:HB2	1.82	0.60
1:A:100:TYR:HB3	1:A:101:PRO:HD2	1.83	0.60
1:A:468:VAL:HG13	1:A:514:LEU:O	2.01	0.60
1:B:199:ARG:NH2	1:B:258:ALA:HB3	2.15	0.60
1:B:382:LEU:H	1:B:405:THR:HG22	1.66	0.60
1:B:529:ILE:HD13	1:B:583:VAL:HG11	1.84	0.60
1:A:654:LEU:HD12	1:B:662:ILE:CD1	2.30	0.60
1:C:327:SER:HB2	1:C:331:GLY:HA2	1.78	0.60
1:C:337:LEU:HD22	1:C:357:TRP:CZ3	2.39	0.60
1:C:14:HIS:ND1	1:C:36:ILE:HG22	2.97	0.60
1:C:474:ARG:CG	1:C:492:GLU:HB2	2.47	0.60
1:D:766:ARG:O	1:D:770:LEU:HB2	2.15	0.60
1:E:61:VAL:HG13	1:E:65:VAL:HG23	1.83	0.60
1:E:697:SER:HB3	1:F:706:LEU:HB2	1.82	0.60
1:F:194:GLU:HG2	1:F:195:GLU:N	2.16	0.60
1:F:539:LEU:HD22	1:F:643:VAL:HG22	1.98	0.60
1:G:24:ASN:ND2	1:G:30:VAL:HB	2.54	0.60
1:G:14:HIS:HD1	1:G:36:ILE:HG22	1.66	0.60
1:I:273:ILE:CD1	1:I:316:LEU:HD21	2.58	0.60
1:I:337:LEU:HD22	1:I:357:TRP:HZ3	1.68	0.60
1:K:533:ASP:OD1	1:K:587:THR:HA	2.02	0.60
1:L:217:ASP:OD1	1:L:257:GLU:O	2.20	0.60
1:M:109:ILE:HD12	1:M:153:PRO:CB	2.31	0.60
1:M:333:LEU:HB2	1:M:359:ILE:CD1	2.32	0.60
1:M:394:LYS:HZ3	1:N:329:GLN:HB2	1.66	0.60
1:M:472:ASP:CA	1:M:493:GLU:HB3	2.51	0.60
1:M:603:VAL:HG21	1:M:638:VAL:HG21	2.20	0.60
1:P:523:PHE:CD1	1:P:568:VAL:HG12	2.37	0.60
1:S:70:GLN:HB3	1:S:104:VAL:O	2.02	0.60
1:T:120:ALA:HB2	1:T:164:GLN:HE22	1.65	0.60
1:T:46:ALA:N	1:T:47:PRO:CD	2.64	0.60
1:V:115:VAL:HA	1:V:147:GLY:O	2.02	0.60
1:Z:14:HIS:CB	1:Z:56:ARG:HB2	2.32	0.60
1:A:163:ILE:HD12	1:A:163:ILE:O	2.63	0.60
1:B:18:VAL:H	1:B:48:VAL:CG1	2.12	0.60
1:A:394:LYS:CG	1:B:329:GLN:HG3	2.60	0.60
1:B:60:ILE:HG13	1:B:92:LEU:O	4.02	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:419:LEU:CG	1:C:420:PRO:HD2	2.27	0.60
1:D:204:TYR:O	1:D:206:PRO:HD3	2.02	0.60
1:D:330:GLN:CB	1:D:379:ALA:HB3	2.44	0.60
1:F:654:LEU:HD12	1:G:662:ILE:HD12	1.84	0.60
1:G:273:ILE:CG2	1:G:310:LEU:HD11	2.64	0.60
1:G:311:GLN:HB2	1:G:314:GLU:CG	2.32	0.60
1:F:653:ALA:HB3	1:G:662:ILE:HD11	1.84	0.60
1:I:281:TYR:CD2	1:I:366:VAL:HG13	2.69	0.60
1:J:239:ARG:NH2	1:J:257:GLU:HG2	2.16	0.60
1:L:67:ARG:NE	1:L:108:ASP:HB3	2.16	0.60
1:L:65:VAL:HG12	1:L:110:THR:CG2	2.52	0.60
1:L:472:ASP:HA	1:L:493:GLU:CB	2.31	0.60
1:L:533:ASP:OD1	1:L:587:THR:HA	2.01	0.60
1:M:794:LYS:O	1:M:798:MET:HG2	2.01	0.60
1:N:14:HIS:CB	1:N:56:ARG:HB2	2.30	0.60
1:P:623:ARG:CG	1:P:624:ASP:H	2.14	0.60
1:R:472:ASP:HA	1:R:493:GLU:CB	2.32	0.60
1:S:311:GLN:HB3	1:S:312:PRO:HD2	1.84	0.60
1:S:564:VAL:HG22	1:S:631:ASN:ND2	2.17	0.60
1:T:221:LEU:HD21	1:T:256:THR:CG2	2.31	0.60
1:T:333:LEU:HB2	1:T:359:ILE:CD1	2.31	0.60
1:U:333:LEU:HB2	1:U:359:ILE:CD1	2.30	0.60
1:W:132:LYS:CE	1:W:152:ILE:HD12	2.31	0.60
1:W:176:LEU:HB2	1:W:196:TRP:CB	2.30	0.60
1:X:481:VAL:HG11	1:X:487:VAL:CG1	2.31	0.60
1:Y:327:SER:HB2	1:Y:331:GLY:HA3	1.83	0.60
1:Y:522:PHE:C	1:Y:522:PHE:HD2	2.05	0.60
1:Z:5:GLU:HG2	1:Z:43:VAL:HG21	1.82	0.60
1:Z:474:ARG:HG3	1:Z:492:GLU:HB2	1.83	0.60
1:B:359:ILE:O	1:B:359:ILE:HD12	4.20	0.60
1:C:159:VAL:HG12	1:C:160:VAL:HG22	1.84	0.60
1:C:419:LEU:HD22	1:C:422:GLY:H	1.66	0.60
1:D:115:VAL:H	1:D:118:ASN:ND2	2.13	0.60
1:D:580:ARG:HH22	1:E:595:SER:CB	2.15	0.60
1:E:239:ARG:HH21	1:E:257:GLU:HG2	1.87	0.60
1:F:394:LYS:HG2	1:G:329:GLN:CG	2.38	0.60
1:F:587:THR:HG23	1:F:590:ASP:CB	2.52	0.60
1:F:58:TYR:HD1	1:F:99:LEU:CD1	2.87	0.60
1:G:213:LEU:HD13	1:G:214:ASP:H	2.16	0.60
1:J:285:LEU:HD12	1:J:315:ARG:HH11	2.45	0.60
1:J:336:ALA:H	1:J:374:VAL:HG23	1.88	0.60
1:K:60:ILE:CD1	1:K:93:ALA:HA	2.69	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:244:ARG:HB3	1:M:221:LEU:HD23	1.83	0.60
1:L:377:ARG:NH1	1:L:408:LEU:O	2.35	0.60
1:L:601:MET:HG2	1:L:622:ALA:CB	2.30	0.60
1:M:281:TYR:CE1	1:M:321:GLN:HB2	2.37	0.60
1:M:382:LEU:N	1:M:405:THR:HG22	2.33	0.60
1:O:338:GLN:HB2	1:O:339:PRO:HD3	1.81	0.60
1:O:796:LYS:HA	1:O:799:THR:HG22	1.82	0.60
1:P:46:ALA:N	1:P:47:PRO:CD	2.65	0.60
1:P:14:HIS:HB3	1:P:56:ARG:HG3	1.82	0.60
1:Q:154:GLN:HG3	1:Q:155:LYS:CE	2.32	0.60
1:R:527:ILE:HD11	1:R:541:LEU:HG	1.83	0.60
1:R:687:ARG:HG2	1:R:691:GLN:HE21	1.66	0.60
1:S:221:LEU:HD13	1:S:256:THR:HB	1.84	0.60
1:T:165:ALA:CB	1:T:174:LEU:HD11	2.32	0.60
1:T:601:MET:HG2	1:T:622:ALA:HB2	1.84	0.60
1:U:130:GLU:H	1:U:137:VAL:HG13	1.67	0.60
1:V:85:HIS:NE2	1:V:102:GLY:HA3	2.16	0.60
1:X:122:HIS:HB3	1:X:159:VAL:HB	1.84	0.60
1:X:180:LYS:C	1:X:182:CYS:H	2.03	0.60
1:X:221:LEU:CD2	1:X:256:THR:CG2	2.79	0.60
1:Y:168:ILE:CD1	1:Y:172:GLN:OE1	2.49	0.60
1:Z:185:ARG:HG3	1:Z:206:PRO:CB	2.31	0.60
1:Z:260:VAL:CB	1:Z:263:VAL:HA	2.29	0.60
1:A:662:ILE:HD11	1:Z:653:ALA:HB3	177.21	0.60
1:A:228:HIS:NE2	1:A:312:PRO:HB3	2.17	0.60
1:B:180:LYS:C	1:B:182:CYS:N	3.08	0.60
1:B:296:LEU:HD22	1:B:296:LEU:N	2.37	0.60
1:C:120:ALA:HB3	1:C:162:ILE:HG13	2.01	0.60
1:E:221:LEU:HD22	1:E:256:THR:CB	2.53	0.60
1:E:759:LEU:HD22	1:F:768:MET:HG3	1.84	0.60
1:E:704:LYS:HD2	1:F:712:MET:HB3	2.07	0.60
1:H:129:PHE:O	1:H:130:GLU:HG2	4.15	0.60
1:H:601:MET:HG2	1:H:622:ALA:CB	2.32	0.60
1:J:10:ILE:HD13	1:J:13:TYR:CE2	2.47	0.60
1:K:175:ARG:HE	1:K:263:VAL:CG2	2.08	0.60
1:M:122:HIS:HB3	1:M:160:VAL:H	1.67	0.60
1:O:122:HIS:O	1:O:159:VAL:N	2.29	0.60
1:O:13:TYR:O	1:O:36:ILE:HG12	2.00	0.60
1:O:380:ILE:HD12	1:O:406:TYR:O	2.01	0.60
1:O:523:PHE:CE1	1:O:568:VAL:HG12	2.36	0.60
1:Q:221:LEU:HD12	1:Q:253:VAL:HG13	1.83	0.60
1:Q:472:ASP:HA	1:Q:493:GLU:HB3	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:69:THR:HA	1:R:106:GLU:HB3	1.82	0.60
1:U:20:ASP:HB2	1:U:49:ARG:HD3	1.84	0.60
1:V:129:PHE:O	1:V:130:GLU:HG2	2.01	0.60
1:V:183:PHE:HD2	1:V:184:ASP:H	1.50	0.60
1:V:220:ILE:HD13	1:V:251:VAL:HG13	1.83	0.60
1:V:221:LEU:HD22	1:V:256:THR:CG2	2.30	0.60
1:X:476:LYS:HE2	1:Y:485:GLU:HG3	1.83	0.60
1:X:734:ARG:HH21	1:X:735:ILE:HD13	1.64	0.60
1:Y:1:MET:HE3	1:Y:47:PRO:HB3	1.82	0.60
1:Z:120:ALA:HB3	1:Z:162:ILE:HG13	1.84	0.60
1:A:189:GLY:O	1:A:196:TRP:HZ2	2.16	0.60
1:A:90:ILE:HD12	1:A:90:ILE:O	2.01	0.60
1:B:190:ARG:O	1:B:191:VAL:HG23	2.02	0.60
1:B:171:ASN:O	1:B:216:VAL:HA	2.01	0.60
1:B:278:PRO:O	1:B:279:ARG:HB3	2.01	0.60
1:C:55:PRO:O	1:C:56:ARG:HG2	2.39	0.60
1:C:807:ILE:HD12	1:C:808:ARG:H	1.66	0.60
1:D:623:ARG:CG	1:D:624:ASP:H	2.15	0.60
1:E:239:ARG:NH2	1:E:257:GLU:HG2	2.52	0.60
1:E:384:GLN:H	1:E:384:GLN:NE2	1.99	0.60
1:E:474:ARG:CG	1:E:492:GLU:HB2	2.34	0.60
1:E:481:VAL:HG11	1:E:487:VAL:HG13	1.82	0.60
1:F:333:LEU:O	1:F:359:ILE:HD13	2.02	0.60
1:F:758:GLU:O	1:F:762:VAL:HG23	2.10	0.60
1:G:337:LEU:H	1:G:337:LEU:HD23	1.85	0.60
1:G:527:ILE:CD1	1:G:527:ILE:H	2.12	0.60
1:H:529:ILE:CD1	1:H:537:LEU:HB2	2.64	0.60
1:J:417:LYS:O	1:J:418:GLU:HB2	2.14	0.60
1:J:472:ASP:HA	1:J:493:GLU:CB	2.31	0.60
1:I:759:LEU:HD21	1:J:765:VAL:HG22	1.83	0.60
1:J:762:VAL:O	1:J:766:ARG:HB2	2.39	0.60
1:K:745:LYS:HG3	1:L:753:ILE:HD11	2.01	0.60
1:L:221:LEU:CD2	1:L:256:THR:CG2	2.90	0.60
1:M:100:TYR:HB3	1:M:101:PRO:CD	2.63	0.60
1:M:54:PRO:HB2	1:M:55:PRO:CD	2.31	0.60
1:A:772:TYR:HB2	1:M:766:ARG:HD3	148.08	0.60
1:M:787:LEU:HA	1:M:790:VAL:HG12	2.15	0.60
1:N:10:ILE:CG2	1:N:11:PRO:HD2	2.32	0.60
1:N:191:VAL:HG12	1:N:194:GLU:HB2	1.83	0.60
1:Q:227:LEU:HB2	1:Q:251:VAL:CG1	2.32	0.60
1:R:496:THR:O	1:R:496:THR:CG2	2.50	0.60
1:R:70:GLN:HB3	1:R:104:VAL:H	1.67	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:529:ILE:HD13	1:S:583:VAL:HG11	1.83	0.60
1:T:121:LEU:HB2	1:T:145:PHE:HB3	1.84	0.60
1:U:221:LEU:HD22	1:U:256:THR:HB	1.82	0.60
1:U:415:TRP:CZ3	1:U:417:LYS:HB3	2.37	0.60
1:W:14:HIS:CB	1:W:56:ARG:HB2	2.31	0.60
1:W:174:LEU:HB2	1:W:198:VAL:HB	1.84	0.60
1:X:46:ALA:N	1:X:47:PRO:CD	2.65	0.60
1:C:227:LEU:HB2	1:C:251:VAL:HG12	1.84	0.60
1:F:100:TYR:HB3	1:F:101:PRO:CD	2.61	0.60
1:F:8:ILE:HA	1:F:40:ASN:HD22	1.66	0.60
1:J:3:THR:H	1:J:50:MET:HE1	1.83	0.60
1:K:10:ILE:HD13	1:K:13:TYR:CD2	2.98	0.60
1:K:284:ILE:HD13	1:K:284:ILE:N	2.16	0.60
1:L:183:PHE:HA	1:L:190:ARG:HD3	2.10	0.60
1:M:169:LYS:H	1:M:201:VAL:HG12	1.66	0.60
1:R:384:GLN:NE2	1:R:384:GLN:H	2.00	0.60
1:T:174:LEU:HB2	1:T:198:VAL:HB	1.83	0.60
1:T:4:GLU:OE2	1:T:6:ALA:HB2	2.02	0.60
1:U:19:LEU:HA	1:U:32:PRO:HB3	1.84	0.60
1:A:54:PRO:CB	1:A:55:PRO:HD3	2.38	0.59
1:C:382:LEU:HD13	1:C:387:GLY:HA2	1.83	0.59
1:E:16:ILE:HD13	1:E:34:THR:HG21	4.36	0.59
1:E:228:HIS:HB3	1:E:267:VAL:HB	1.84	0.59
1:E:273:ILE:HG21	1:E:316:LEU:HD11	1.84	0.59
1:E:310:LEU:HD21	1:E:316:LEU:HG	2.24	0.59
1:E:526:VAL:HG22	1:E:540:GLN:HG2	2.08	0.59
1:F:130:GLU:N	1:F:137:VAL:HG13	6.54	0.59
1:G:399:ARG:HA	1:G:491:PRO:HG3	1.83	0.59
1:H:402:ILE:HD12	1:H:402:ILE:O	2.02	0.59
1:J:252:THR:O	1:J:254:GLN:N	2.60	0.59
1:J:796:LYS:HA	1:J:799:THR:HG22	1.91	0.59
1:K:196:TRP:HA	1:K:196:TRP:CE3	2.35	0.59
1:K:382:LEU:HB2	1:K:404:SER:O	2.01	0.59
1:L:230:ARG:HG2	1:L:248:GLU:HG2	1.84	0.59
1:L:363:LEU:HD13	1:L:364:GLU:H	1.64	0.59
1:L:417:LYS:O	1:L:418:GLU:HB2	2.12	0.59
1:N:330:GLN:HA	1:N:330:GLN:OE1	2.02	0.59
1:N:490:ASP:CG	1:N:491:PRO:HD2	2.22	0.59
1:P:4:GLU:OE2	1:P:6:ALA:HB2	2.02	0.59
1:Q:87:ASP:CG	1:Q:88:GLN:H	2.04	0.59
1:R:115:VAL:HA	1:R:147:GLY:O	2.02	0.59
1:S:267:VAL:O	1:S:268:LEU:HB2	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:5:GLU:HG2	1:W:43:VAL:HG21	1.84	0.59
1:X:4:GLU:OE2	1:X:6:ALA:HB2	2.02	0.59
1:Z:46:ALA:N	1:Z:47:PRO:CD	2.65	0.59
1:C:506:LYS:HE2	1:C:524:THR:O	2.23	0.59
1:E:2:ALA:HB3	1:E:46:ALA:O	2.02	0.59
1:E:394:LYS:HA	1:F:329:GLN:NE2	2.68	0.59
1:E:469:GLN:HB3	1:E:496:THR:CG2	2.32	0.59
1:E:747:LYS:HB3	1:E:751:LEU:HD12	1.84	0.59
1:I:235:PHE:CE1	1:I:264:TYR:CE1	2.95	0.59
1:J:279:ARG:HG3	1:J:280:HIS:HD2	1.67	0.59
1:K:14:HIS:ND1	1:K:36:ILE:CG2	2.64	0.59
1:J:355:ASP:HA	1:K:328:GLU:CB	2.31	0.59
1:K:469:GLN:HB3	1:K:496:THR:CG2	2.31	0.59
1:K:46:ALA:N	1:K:47:PRO:HD3	2.17	0.59
1:K:529:ILE:HG22	1:K:580:ARG:HB2	1.85	0.59
1:M:465:ASN:O	1:M:518:LEU:HD12	2.02	0.59
1:M:36:ILE:HG21	1:M:99:LEU:H	2.20	0.59
1:N:340:LEU:HG	1:N:353:ALA:H	1.67	0.59
1:P:123:LEU:HD11	1:P:143:TRP:CD1	2.36	0.59
1:Q:485:GLU:HG2	1:Q:486:LEU:N	2.17	0.59
1:R:90:ILE:HD12	1:R:90:ILE:O	2.01	0.59
1:W:229:LEU:O	1:W:248:GLU:HA	2.02	0.59
1:Y:302:VAL:HG21	1:Y:308:PHE:CE2	2.38	0.59
1:Y:90:ILE:HD12	1:Y:90:ILE:O	2.01	0.59
1:A:164:GLN:CD	1:A:204:TYR:HB3	2.89	0.59
1:A:523:PHE:HE1	1:A:568:VAL:HG12	1.84	0.59
1:B:3:THR:HG22	1:B:50:MET:HE1	1.83	0.59
1:B:511:ARG:NH2	1:B:517:LEU:HD11	2.17	0.59
1:C:340:LEU:HG	1:C:353:ALA:HB2	1.99	0.59
1:C:729:ARG:HB2	1:C:729:ARG:HH11	1.88	0.59
1:C:71:SER:OG	1:C:87:ASP:HB3	2.03	0.59
1:D:273:ILE:HG23	1:D:310:LEU:HD11	1.98	0.59
1:E:276:LEU:N	1:E:280:HIS:HB2	2.26	0.59
1:E:500:LEU:HA	1:E:566:ASP:OD1	2.01	0.59
1:H:522:PHE:C	1:H:522:PHE:CD2	2.75	0.59
1:H:600:ARG:O	1:H:604:PHE:HD1	1.86	0.59
1:I:296:LEU:HD21	1:J:307:SER:HB3	1.84	0.59
1:J:649:ARG:NH2	1:K:655:GLN:HG2	2.53	0.59
1:K:24:ASN:ND2	1:K:30:VAL:HB	2.16	0.59
1:K:599:ILE:C	1:K:601:MET:H	2.06	0.59
1:K:676:GLU:OE1	1:K:676:GLU:HA	2.20	0.59
1:N:252:THR:O	1:N:254:GLN:N	2.35	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:419:LEU:HG	1:N:420:PRO:CD	2.15	0.59
1:N:452:ARG:HH12	1:N:454:LYS:HA	1.67	0.59
1:N:526:VAL:HG22	1:N:540:GLN:HG2	1.84	0.59
1:O:180:LYS:O	1:O:182:CYS:N	2.36	0.59
1:O:221:LEU:HD22	1:O:256:THR:CG2	2.28	0.59
1:O:268:LEU:HD13	1:O:269:GLY:H	1.66	0.59
1:P:176:LEU:HD23	1:P:211:GLU:HA	1.85	0.59
1:P:419:LEU:CG	1:P:420:PRO:HD2	2.19	0.59
1:R:252:THR:H	1:R:254:GLN:NE2	2.00	0.59
1:S:326:LEU:CD2	1:S:333:LEU:HG	2.31	0.59
1:S:338:GLN:HB2	1:S:339:PRO:CD	2.25	0.59
1:U:601:MET:CG	1:U:622:ALA:HB2	2.32	0.59
1:V:417:LYS:HE3	1:V:491:PRO:O	2.02	0.59
1:Y:46:ALA:N	1:Y:47:PRO:CD	2.65	0.59
1:Z:224:LYS:O	1:Z:272:PRO:HD3	2.02	0.59
1:A:327:SER:HB2	1:A:331:GLY:HA2	1.99	0.59
1:B:771:ILE:HA	1:B:774:ARG:HH11	1.99	0.59
1:C:130:GLU:HA	1:C:137:VAL:H	2.12	0.59
1:C:152:ILE:HD12	1:C:152:ILE:O	4.25	0.59
1:C:182:CYS:SG	1:C:208:VAL:HG23	2.41	0.59
1:C:279:ARG:HG3	1:C:280:HIS:CD2	2.38	0.59
1:C:328:GLU:CG	1:C:329:GLN:N	4.30	0.59
1:D:194:GLU:HG2	1:D:195:GLU:N	2.43	0.59
1:C:394:LYS:HA	1:D:329:GLN:NE2	3.25	0.59
1:D:77:ILE:CG1	1:D:80:GLN:N	2.60	0.59
1:E:123:LEU:HD11	1:E:143:TRP:HD1	2.67	0.59
1:F:65:VAL:HG12	1:F:110:THR:HG22	1.85	0.59
1:F:90:ILE:HD12	1:F:154:GLN:CB	2.81	0.59
1:G:5:GLU:HG2	1:G:43:VAL:CG2	2.60	0.59
1:H:64:PRO:HA	1:H:111:PRO:HD2	1.83	0.59
1:H:606:PHE:HB2	1:H:622:ALA:HA	1.90	0.59
1:I:109:ILE:CD1	1:I:153:PRO:HG2	2.33	0.59
1:I:663:GLU:O	1:I:666:THR:HG22	2.02	0.59
1:K:10:ILE:HD13	1:K:13:TYR:CE2	2.85	0.59
1:K:67:ARG:HG2	1:K:108:ASP:CB	2.42	0.59
1:L:29:GLU:O	1:L:84:ARG:NH1	2.25	0.59
1:M:109:ILE:HD12	1:M:153:PRO:HB2	1.85	0.59
1:O:65:VAL:HA	1:O:110:THR:HA	1.84	0.59
1:O:182:CYS:SG	1:O:208:VAL:HB	2.41	0.59
1:O:338:GLN:OE1	1:P:278:PRO:HB2	2.02	0.59
1:O:354:GLY:O	1:P:328:GLU:HG3	2.03	0.59
1:Q:180:LYS:C	1:Q:182:CYS:H	2.05	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:462:VAL:HG22	1:Q:468:VAL:CG2	2.31	0.59
1:R:19:LEU:HA	1:R:32:PRO:HB2	1.84	0.59
1:R:469:GLN:HB3	1:R:496:THR:HG21	1.84	0.59
1:R:762:VAL:O	1:R:766:ARG:HB2	2.03	0.59
1:S:221:LEU:HD22	1:S:256:THR:CG2	2.30	0.59
1:T:529:ILE:HD11	1:T:539:LEU:HD11	1.83	0.59
1:U:67:ARG:HH21	1:U:107:LYS:HA	1.67	0.59
1:V:220:ILE:CD1	1:V:251:VAL:HG13	2.32	0.59
1:V:252:THR:O	1:V:254:GLN:N	2.35	0.59
1:V:511:ARG:NH2	1:V:517:LEU:HD11	2.11	0.59
1:X:10:ILE:HG22	1:X:12:PRO:HD2	1.83	0.59
1:Y:228:HIS:HB3	1:Y:267:VAL:HB	1.84	0.59
1:Y:580:ARG:HH22	1:Z:595:SER:CB	2.16	0.59
1:Z:130:GLU:HA	1:Z:137:VAL:H	1.65	0.59
1:A:517:LEU:HD12	1:A:517:LEU:H	1.98	0.59
1:A:580:ARG:HH22	1:B:595:SER:CB	2.15	0.59
1:B:676:GLU:HA	1:B:676:GLU:OE1	2.19	0.59
1:C:100:TYR:HB3	1:C:101:PRO:CD	2.33	0.59
1:D:221:LEU:CD2	1:D:256:THR:CG2	2.97	0.59
1:D:527:ILE:HD13	1:D:529:ILE:CG2	2.30	0.59
1:D:527:ILE:HD11	1:D:539:LEU:HG	1.83	0.59
1:E:273:ILE:HD11	1:E:308:PHE:CD2	3.47	0.59
1:F:284:ILE:N	1:F:284:ILE:HD13	2.18	0.59
1:F:43:VAL:HG12	1:F:45:PHE:O	2.08	0.59
1:F:18:VAL:N	1:F:48:VAL:HG13	2.16	0.59
1:G:339:PRO:HD2	1:G:370:LYS:HB3	2.12	0.59
1:G:580:ARG:HH22	1:H:595:SER:HB2	1.66	0.59
1:H:600:ARG:NH1	1:H:622:ALA:HB3	2.18	0.59
1:I:337:LEU:HD21	1:I:352:GLN:O	2.18	0.59
1:H:580:ARG:HH22	1:I:595:SER:HB2	2.00	0.59
1:M:359:ILE:O	1:M:359:ILE:HD12	2.02	0.59
1:N:10:ILE:HG23	1:N:11:PRO:HD2	1.85	0.59
1:N:320:ILE:N	1:N:320:ILE:HD13	2.16	0.59
1:O:36:ILE:O	1:O:37:ARG:HG3	2.02	0.59
1:O:573:LYS:HE3	1:P:522:PHE:CZ	2.37	0.59
1:Q:199:ARG:HH21	1:Q:258:ALA:HB3	1.66	0.59
1:Q:330:GLN:CB	1:Q:379:ALA:HB3	2.29	0.59
1:R:654:LEU:CD1	1:S:662:ILE:HD13	2.32	0.59
1:U:379:ALA:HB2	1:U:407:MET:HB3	1.84	0.59
1:W:236:ARG:HA	1:W:241:VAL:O	2.03	0.59
1:X:196:TRP:HA	1:X:196:TRP:CE3	2.36	0.59
1:X:342:GLU:HA	1:X:350:SER:HA	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:18:VAL:CG1	1:X:48:VAL:HG22	2.31	0.59
1:Z:8:ILE:HA	1:Z:40:ASN:HD22	1.66	0.59
1:Z:8:ILE:HG22	1:Z:40:ASN:ND2	2.18	0.59
1:A:354:GLY:O	1:A:356:CYS:N	2.36	0.59
1:A:623:ARG:HG3	1:A:624:ASP:N	2.76	0.59
1:B:332:LEU:HD21	1:B:407:MET:HB3	1.84	0.59
1:C:284:ILE:HD11	1:C:300:ARG:HB3	2.33	0.59
1:D:120:ALA:O	1:D:161:GLU:HA	2.04	0.59
1:D:60:ILE:HG22	1:D:66:SER:HA	2.16	0.59
1:E:327:SER:CA	1:E:331:GLY:HA3	3.25	0.59
1:E:360:ARG:HG3	1:E:361:GLY:H	2.27	0.59
1:G:326:LEU:CD2	1:G:333:LEU:HG	2.66	0.59
1:G:472:ASP:HA	1:G:493:GLU:CB	2.39	0.59
1:H:182:CYS:SG	1:H:208:VAL:HB	2.48	0.59
1:H:273:ILE:CD1	1:H:316:LEU:HD21	2.33	0.59
1:I:268:LEU:HD13	1:I:269:GLY:H	1.67	0.59
1:I:18:VAL:CG1	1:I:48:VAL:HG22	2.33	0.59
1:I:623:ARG:HG2	1:I:624:ASP:H	2.07	0.59
1:J:115:VAL:H	1:J:118:ASN:ND2	2.05	0.59
1:J:182:CYS:SG	1:J:208:VAL:CG2	3.03	0.59
1:K:408:LEU:HD21	1:K:414:LEU:HD12	2.10	0.59
1:K:60:ILE:HD12	1:K:60:ILE:H	1.67	0.59
1:M:294:ASN:ND2	1:M:313:GLY:HA3	2.17	0.59
1:M:284:ILE:HD13	1:M:300:ARG:O	2.03	0.59
1:M:533:ASP:OD1	1:M:587:THR:HA	2.12	0.59
1:M:244:ARG:HB3	1:N:221:LEU:HD23	1.85	0.59
1:O:501:SER:HB3	1:O:508:PRO:HA	1.85	0.59
1:Q:260:VAL:O	1:Q:262:ASP:N	2.36	0.59
1:Q:77:ILE:HG13	1:Q:79:GLY:H	1.68	0.59
1:T:490:ASP:CG	1:T:491:PRO:HD2	2.23	0.59
1:T:501:SER:HB3	1:T:508:PRO:HA	1.85	0.59
1:U:338:GLN:HB2	1:U:339:PRO:HD3	1.85	0.59
1:X:115:VAL:H	1:X:118:ASN:ND2	1.90	0.59
1:Y:205:LEU:HD22	1:Y:211:GLU:HB2	1.84	0.59
1:Y:333:LEU:HB2	1:Y:359:ILE:CD1	2.32	0.59
1:B:174:LEU:HB2	1:B:198:VAL:HB	1.83	0.59
1:B:517:LEU:O	1:B:545:TRP:HH2	1.86	0.59
1:C:109:ILE:HD12	1:C:153:PRO:CG	2.32	0.59
1:D:208:VAL:HG23	1:D:209:PHE:HD2	1.66	0.59
1:D:472:ASP:HA	1:D:493:GLU:CB	2.31	0.59
1:C:654:LEU:CD1	1:D:662:ILE:HD13	2.33	0.59
1:E:204:TYR:O	1:E:206:PRO:HD3	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:601:MET:CG	1:E:622:ALA:HB2	2.46	0.59
1:H:382:LEU:HB2	1:H:404:SER:O	2.02	0.59
1:H:419:LEU:CG	1:H:420:PRO:HD2	2.30	0.59
1:H:501:SER:CB	1:H:507:ARG:O	2.48	0.59
1:H:564:VAL:HG21	1:H:631:ASN:ND2	2.54	0.59
1:H:14:HIS:HB3	1:H:56:ARG:CB	2.47	0.59
1:H:802:LEU:HD12	1:H:806:THR:HG22	2.01	0.59
1:K:132:LYS:HZ2	1:K:152:ILE:CD1	2.94	0.59
1:L:113:GLN:OE1	1:L:149:GLY:HA2	2.37	0.59
1:L:221:LEU:HD22	1:L:256:THR:CG2	2.62	0.59
1:K:298:GLN:HG3	1:L:305:GLU:CD	2.23	0.59
1:L:501:SER:HA	1:L:507:ARG:O	2.03	0.59
1:L:660:LEU:HA	1:L:663:GLU:HB3	2.30	0.59
1:M:185:ARG:HG3	1:M:206:PRO:CB	2.61	0.59
1:M:176:LEU:HB2	1:M:196:TRP:HB2	1.85	0.59
1:M:319:GLY:C	1:M:320:ILE:HD13	2.40	0.59
1:M:382:LEU:HD13	1:M:387:GLY:HA2	1.88	0.59
1:N:587:THR:HG23	1:N:590:ASP:HB3	1.84	0.59
1:O:227:LEU:HB2	1:O:251:VAL:HG12	1.85	0.59
1:O:224:LYS:HA	1:O:272:PRO:HG3	1.83	0.59
1:Q:4:GLU:OE2	1:Q:6:ALA:HB2	2.02	0.59
1:S:29:GLU:O	1:S:84:ARG:NH1	2.34	0.59
1:T:100:TYR:HB3	1:T:101:PRO:HD2	1.84	0.59
1:U:221:LEU:CD2	1:U:256:THR:CG2	2.80	0.59
1:W:382:LEU:H	1:W:405:THR:HG22	1.67	0.59
1:W:29:GLU:O	1:W:84:ARG:HD3	2.01	0.59
1:A:230:ARG:HH11	1:A:230:ARG:HB3	1.73	0.59
1:B:65:VAL:HG13	1:B:110:THR:HG22	2.69	0.59
1:B:221:LEU:HA	1:B:253:VAL:HG13	1.83	0.59
1:B:267:VAL:O	1:B:268:LEU:HB2	2.32	0.59
1:B:526:VAL:HG22	1:B:540:GLN:HG2	1.83	0.59
1:B:745:LYS:HG3	1:C:753:ILE:CD1	2.32	0.59
1:C:165:ALA:HB3	1:C:174:LEU:HD11	1.85	0.59
1:D:194:GLU:HG2	1:D:195:GLU:H	1.70	0.59
1:D:327:SER:HB2	1:D:331:GLY:N	2.68	0.59
1:F:236:ARG:NH1	1:F:236:ARG:HB3	2.29	0.59
1:F:529:ILE:CD1	1:F:537:LEU:HB2	2.33	0.59
1:G:319:GLY:C	1:G:320:ILE:HD13	2.23	0.59
1:G:579:VAL:HG22	1:G:599:ILE:HG23	2.09	0.59
1:H:165:ALA:CB	1:H:174:LEU:HD11	2.49	0.59
1:K:649:ARG:HH21	1:L:655:GLN:CG	2.89	0.59
1:K:61:VAL:HG13	1:K:65:VAL:CG2	2.52	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:14:HIS:CB	1:L:56:ARG:CB	2.79	0.59
1:L:333:LEU:O	1:L:359:ILE:HD13	5.80	0.59
1:M:115:VAL:N	1:M:118:ASN:HD22	2.01	0.59
1:M:19:LEU:HA	1:M:32:PRO:HB2	1.84	0.59
1:M:227:LEU:CB	1:M:251:VAL:HG12	2.31	0.59
1:M:229:LEU:HD23	1:M:266:GLU:HA	1.97	0.59
1:M:354:GLY:O	1:M:356:CYS:N	2.35	0.59
1:N:18:VAL:N	1:N:48:VAL:HG13	2.13	0.59
1:O:100:TYR:HB3	1:O:101:PRO:HD2	1.85	0.59
1:P:43:VAL:HG12	1:P:45:PHE:O	2.03	0.59
1:P:474:ARG:HG3	1:P:492:GLU:HB2	1.83	0.59
1:P:64:PRO:O	1:P:110:THR:HB	2.03	0.59
1:P:689:GLU:O	1:P:693:ILE:HG12	2.02	0.59
1:Q:335:LYS:HA	1:Q:374:VAL:HG23	1.85	0.59
1:R:171:ASN:O	1:R:172:GLN:HG3	2.02	0.59
1:T:474:ARG:CG	1:T:492:GLU:HB2	2.33	0.59
1:U:260:VAL:HA	1:U:264:TYR:H	1.66	0.59
1:W:122:HIS:O	1:W:159:VAL:N	2.30	0.59
1:X:221:LEU:HD22	1:X:256:THR:CB	2.32	0.59
1:X:522:PHE:C	1:X:522:PHE:CD2	2.75	0.59
1:X:692:LYS:HG2	1:X:696:GLN:HE21	1.67	0.59
1:Y:116:LEU:O	1:Y:118:ASN:N	2.36	0.59
1:Z:16:ILE:HA	1:Z:34:THR:OG1	2.02	0.59
1:B:36:ILE:HG21	1:B:99:LEU:H	1.68	0.59
1:C:84:ARG:NH2	1:C:101:PRO:HD2	2.24	0.59
1:C:273:ILE:HD13	1:C:310:LEU:HD21	2.49	0.59
1:C:14:HIS:HB3	1:C:56:ARG:CG	2.59	0.59
1:D:296:LEU:HD13	1:D:296:LEU:H	1.68	0.59
1:D:382:LEU:N	1:D:405:THR:HG22	2.18	0.59
1:D:417:LYS:O	1:D:418:GLU:HB2	2.11	0.59
1:D:505:PRO:HG2	1:D:507:ARG:HH12	2.59	0.59
1:E:174:LEU:HB2	1:E:198:VAL:HB	1.84	0.59
1:E:284:ILE:N	1:E:284:ILE:HD13	2.17	0.59
1:E:564:VAL:CG2	1:E:631:ASN:ND2	2.80	0.59
1:F:587:THR:HG23	1:F:590:ASP:HB3	2.01	0.59
1:F:68:ASP:O	1:F:106:GLU:HB2	2.02	0.59
1:G:120:ALA:HB2	1:G:164:GLN:NE2	2.52	0.59
1:K:245:THR:O	1:L:221:LEU:HD23	2.03	0.59
1:M:523:PHE:CD1	1:M:568:VAL:HG12	2.52	0.59
1:N:337:LEU:HD23	1:N:337:LEU:H	1.68	0.59
1:N:402:ILE:HD12	1:N:402:ILE:O	2.03	0.59
1:O:472:ASP:HA	1:O:493:GLU:HB3	1.85	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:19:LEU:HA	1:Q:32:PRO:HB3	1.83	0.59
1:S:16:ILE:HA	1:S:34:THR:OG1	2.02	0.59
1:T:382:LEU:HD11	1:T:388:ILE:HD12	1.84	0.59
1:Z:796:LYS:HA	1:Z:799:THR:HG22	1.85	0.59
1:A:662:ILE:CD1	1:Z:653:ALA:HB1	177.07	0.59
1:B:185:ARG:HG3	1:B:206:PRO:HB3	1.90	0.59
1:B:18:VAL:N	1:B:48:VAL:HG13	2.14	0.59
1:B:176:LEU:HB2	1:B:196:TRP:CB	2.32	0.59
1:C:180:LYS:C	1:C:182:CYS:N	2.94	0.59
1:C:220:ILE:O	1:C:253:VAL:HG22	2.81	0.59
1:C:327:SER:HB2	1:C:331:GLY:N	2.67	0.59
1:C:5:GLU:HG2	1:C:43:VAL:CG2	2.42	0.59
1:D:180:LYS:HD2	1:D:208:VAL:HG12	1.85	0.59
1:D:227:LEU:HB2	1:D:251:VAL:HG13	1.85	0.59
1:D:236:ARG:HA	1:D:241:VAL:O	2.02	0.59
1:E:5:GLU:HG2	1:E:43:VAL:CG2	2.36	0.59
1:F:551:ASN:HB3	1:F:554:ASP:HB3	2.12	0.59
1:E:755:THR:HG21	1:F:761:ARG:HG2	2.00	0.59
1:G:152:ILE:H	1:G:152:ILE:HD13	1.87	0.59
1:G:311:GLN:HB2	1:G:314:GLU:HG3	1.84	0.59
1:I:402:ILE:O	1:I:402:ILE:HD12	2.03	0.59
1:J:191:VAL:HG12	1:J:194:GLU:HB2	1.84	0.59
1:J:337:LEU:HD22	1:J:357:TRP:CZ3	2.37	0.59
1:K:14:HIS:CB	1:K:56:ARG:CB	2.84	0.59
1:K:164:GLN:CD	1:K:204:TYR:CB	2.70	0.59
1:M:296:LEU:H	1:M:296:LEU:HD13	1.83	0.59
1:O:68:ASP:HA	1:O:90:ILE:HA	1.85	0.59
1:P:130:GLU:HB2	1:P:136:LYS:CA	2.32	0.59
1:P:54:PRO:HB2	1:P:55:PRO:CD	2.31	0.59
1:P:601:MET:HG2	1:P:622:ALA:CB	2.32	0.59
1:R:251:VAL:CG2	1:R:254:GLN:NE2	2.66	0.59
1:S:501:SER:HB3	1:S:508:PRO:HA	1.85	0.59
1:R:580:ARG:HH22	1:S:595:SER:HB2	1.68	0.59
1:T:174:LEU:CB	1:T:198:VAL:HB	2.32	0.59
1:U:70:GLN:HB3	1:U:104:VAL:O	2.03	0.59
1:U:281:TYR:CD2	1:U:366:VAL:HG13	2.37	0.59
1:U:311:GLN:HB3	1:U:312:PRO:HD2	1.85	0.59
1:W:262:ASP:HB3	1:W:264:TYR:CE1	2.37	0.59
1:W:8:ILE:HA	1:W:40:ASN:HD22	1.68	0.59
1:W:485:GLU:HG2	1:W:486:LEU:N	2.18	0.59
1:X:167:VAL:H	1:X:202:GLY:HA2	1.68	0.59
1:X:481:VAL:HG11	1:X:487:VAL:HG13	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:689:GLU:O	1:X:693:ILE:HD13	2.02	0.59
1:Y:794:LYS:O	1:Y:798:MET:HG2	2.02	0.59
1:A:190:ARG:O	1:A:191:VAL:HG23	2.19	0.58
1:A:221:LEU:CD2	1:A:256:THR:HB	2.33	0.58
1:A:14:HIS:HD1	1:A:36:ILE:CG2	2.16	0.58
1:A:795:PHE:HZ	1:B:802:LEU:HD22	2.59	0.58
1:B:391:GLN:HB2	1:B:398:VAL:HG22	2.36	0.58
1:C:165:ALA:HB1	1:C:174:LEU:HD11	1.83	0.58
1:C:60:ILE:H	1:C:60:ILE:HD13	2.94	0.58
1:B:745:LYS:HG3	1:C:753:ILE:HD13	1.84	0.58
1:E:330:GLN:CG	1:E:379:ALA:HB3	2.79	0.58
1:F:14:HIS:HB2	1:F:56:ARG:HB2	1.83	0.58
1:F:30:VAL:HG13	1:F:74:LEU:HD11	2.13	0.58
1:F:807:ILE:HD12	1:F:808:ARG:N	2.18	0.58
1:G:122:HIS:O	1:G:159:VAL:N	2.44	0.58
1:G:419:LEU:HD23	1:G:421:SER:H	1.68	0.58
1:G:762:VAL:O	1:G:766:ARG:HB2	2.03	0.58
1:H:459:SER:HB3	1:H:488:THR:CG2	2.56	0.58
1:I:332:LEU:HD11	1:I:379:ALA:HB2	2.17	0.58
1:K:402:ILE:HD12	1:K:402:ILE:O	2.02	0.58
1:K:564:VAL:CG2	1:K:631:ASN:ND2	2.66	0.58
1:O:527:ILE:HD11	1:O:539:LEU:HB2	1.85	0.58
1:P:336:ALA:HA	1:P:356:CYS:HB2	1.85	0.58
1:Q:332:LEU:CD2	1:Q:407:MET:HB2	2.27	0.58
1:V:236:ARG:HA	1:V:241:VAL:O	2.03	0.58
1:W:57:HIS:O	1:W:99:LEU:HD11	2.02	0.58
1:X:180:LYS:C	1:X:182:CYS:N	2.56	0.58
1:X:496:THR:HG23	1:X:496:THR:O	2.03	0.58
1:A:185:ARG:HH22	1:A:207:ALA:HB3	1.68	0.58
1:A:329:GLN:NE2	1:M:394:LYS:HA	293.55	0.58
1:A:486:LEU:HB3	1:Z:473:TYR:HD2	267.96	0.58
1:B:273:ILE:HD13	1:B:316:LEU:HD11	2.27	0.58
1:C:36:ILE:O	1:C:37:ARG:HG3	2.04	0.58
1:B:759:LEU:HD22	1:C:768:MET:HG3	1.84	0.58
1:D:108:ASP:N	1:D:108:ASP:OD1	2.67	0.58
1:D:128:ASP:HB2	1:D:155:LYS:HB3	1.84	0.58
1:D:164:GLN:CD	1:D:204:TYR:HB3	3.87	0.58
1:D:279:ARG:O	1:D:323:VAL:N	2.33	0.58
1:E:220:ILE:HG13	1:E:256:THR:HA	1.86	0.58
1:E:68:ASP:HA	1:E:90:ILE:HA	2.34	0.58
1:E:90:ILE:HD13	1:E:90:ILE:H	1.74	0.58
1:F:230:ARG:HG2	1:F:248:GLU:HG2	1.85	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:185:ARG:HG3	1:G:206:PRO:CB	2.52	0.58
1:H:175:ARG:NE	1:H:263:VAL:HG22	2.19	0.58
1:I:120:ALA:HB2	1:I:164:GLN:NE2	2.17	0.58
1:I:122:HIS:HB3	1:I:159:VAL:HB	1.84	0.58
1:J:65:VAL:CG1	1:J:110:THR:HG22	2.78	0.58
1:L:284:ILE:HD13	1:L:284:ILE:H	1.68	0.58
1:Q:144:LEU:H	1:Q:144:LEU:HD12	1.68	0.58
1:Q:485:GLU:HG2	1:Q:486:LEU:H	1.67	0.58
1:Q:600:ARG:O	1:Q:604:PHE:HD1	1.86	0.58
1:Q:90:ILE:O	1:Q:90:ILE:HD12	2.02	0.58
1:Q:354:GLY:C	1:R:328:GLU:HG3	2.24	0.58
1:S:60:ILE:HG22	1:S:66:SER:HA	1.85	0.58
1:S:354:GLY:CA	1:T:328:GLU:HG3	2.33	0.58
1:U:239:ARG:HH21	1:U:257:GLU:HG2	1.69	0.58
1:U:501:SER:HB3	1:U:508:PRO:HA	1.84	0.58
1:T:49:ARG:CZ	1:U:8:ILE:HG21	2.33	0.58
1:V:332:LEU:HD21	1:V:407:MET:CB	2.32	0.58
1:V:379:ALA:HB2	1:V:407:MET:HB3	1.85	0.58
1:W:542:ALA:HB3	1:W:639:ASP:HB2	1.85	0.58
1:V:708:GLU:HG3	1:W:716:VAL:HG11	1.85	0.58
1:Y:85:HIS:NE2	1:Y:102:GLY:HA3	2.18	0.58
1:Z:262:ASP:HB3	1:Z:264:TYR:CE1	2.37	0.58
1:A:399:ARG:NH2	1:A:412:GLU:OE2	2.31	0.58
1:B:14:HIS:HD1	1:B:36:ILE:CG2	2.20	0.58
1:C:18:VAL:O	1:C:32:PRO:HB3	2.45	0.58
1:D:273:ILE:HD11	1:D:308:PHE:CD2	3.60	0.58
1:D:465:ASN:ND2	1:D:520:PRO:HD2	2.17	0.58
1:D:709:LEU:HD23	1:D:712:MET:CE	2.84	0.58
1:E:11:PRO:HB2	1:E:12:PRO:HD3	2.01	0.58
1:E:382:LEU:H	1:E:405:THR:HG22	1.67	0.58
1:F:36:ILE:HD11	1:F:58:TYR:CE1	2.39	0.58
1:F:71:SER:OG	1:F:73:VAL:HG23	3.68	0.58
1:F:771:ILE:HA	1:F:774:ARG:HH11	1.68	0.58
1:G:382:LEU:H	1:G:405:THR:HG22	1.67	0.58
1:H:174:LEU:HB2	1:H:198:VAL:CB	2.29	0.58
1:H:281:TYR:CD2	1:H:366:VAL:HG13	2.39	0.58
1:I:100:TYR:HB3	1:I:101:PRO:HD2	2.12	0.58
1:I:109:ILE:HD12	1:I:153:PRO:CG	2.32	0.58
1:I:281:TYR:HE1	1:I:321:GLN:HB2	1.74	0.58
1:M:125:ALA:O	1:M:140:GLY:HA2	2.04	0.58
1:M:220:ILE:O	1:M:253:VAL:HG22	2.02	0.58
1:M:3:THR:HG22	1:M:50:MET:CE	2.56	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:120:ALA:HB3	1:N:162:ILE:HG13	1.85	0.58
1:O:526:VAL:HG22	1:O:540:GLN:HG2	1.84	0.58
1:Q:14:HIS:ND1	1:Q:36:ILE:HG22	2.18	0.58
1:Q:333:LEU:HB2	1:Q:359:ILE:CD1	2.33	0.58
1:Q:64:PRO:HA	1:Q:111:PRO:HD2	1.86	0.58
1:P:649:ARG:HH21	1:Q:655:GLN:HG2	1.68	0.58
1:R:56:ARG:HH11	1:R:99:LEU:HD23	1.67	0.58
1:V:221:LEU:HD22	1:V:256:THR:HG21	1.84	0.58
1:V:72:SER:HA	1:V:84:ARG:HG3	1.85	0.58
1:X:796:LYS:HA	1:X:799:THR:HG22	1.85	0.58
1:Z:130:GLU:H	1:Z:137:VAL:HG12	1.68	0.58
1:Z:7:ILE:O	1:Z:41:GLU:HG3	2.03	0.58
1:C:18:VAL:N	1:C:48:VAL:HG13	2.20	0.58
1:F:62:ALA:O	1:F:93:ALA:HB2	2.04	0.58
1:I:130:GLU:N	1:I:137:VAL:HG13	3.05	0.58
1:I:352:GLN:O	1:I:355:ASP:HB3	2.03	0.58
1:J:10:ILE:HD13	1:J:13:TYR:CD2	2.43	0.58
1:J:130:GLU:HB2	1:J:136:LYS:CA	2.30	0.58
1:J:311:GLN:N	1:J:314:GLU:HG3	2.17	0.58
1:J:529:ILE:HD12	1:J:537:LEU:HB2	1.89	0.58
1:K:311:GLN:N	1:K:314:GLU:HG3	2.18	0.58
1:K:802:LEU:HD12	1:K:806:THR:HG22	1.85	0.58
1:L:336:ALA:HA	1:L:356:CYS:HB2	1.84	0.58
1:L:399:ARG:HG2	1:L:399:ARG:NH1	2.48	0.58
1:L:61:VAL:HG22	1:L:65:VAL:CG2	2.33	0.58
1:M:294:ASN:HD21	1:M:313:GLY:HA3	1.68	0.58
1:M:579:VAL:HG22	1:M:599:ILE:HD12	1.85	0.58
1:A:764:LYS:HB3	1:M:759:LEU:HD11	157.78	0.58
1:P:220:ILE:CD1	1:P:251:VAL:HG13	2.33	0.58
1:Q:180:LYS:C	1:Q:182:CYS:N	2.57	0.58
1:Q:205:LEU:HD22	1:Q:211:GLU:HB2	1.85	0.58
1:Q:220:ILE:HD13	1:Q:251:VAL:HG13	1.85	0.58
1:R:109:ILE:CD1	1:R:153:PRO:CB	2.76	0.58
1:R:5:GLU:OE1	1:R:43:VAL:HG11	2.03	0.58
1:S:43:VAL:HG12	1:S:45:PHE:O	2.03	0.58
1:S:18:VAL:N	1:S:48:VAL:HG13	2.16	0.58
1:S:692:LYS:HG2	1:S:696:GLN:HE21	1.68	0.58
1:T:14:HIS:CB	1:T:56:ARG:HB2	2.33	0.58
1:T:221:LEU:CD2	1:T:256:THR:HB	2.31	0.58
1:T:71:SER:HB3	1:T:84:ARG:O	2.03	0.58
1:V:697:SER:HA	1:W:706:LEU:HD23	1.85	0.58
1:W:252:THR:H	1:W:254:GLN:HE21	1.52	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:580:ARG:HH22	1:Y:595:SER:CB	2.16	0.58
1:X:587:THR:HG23	1:X:590:ASP:HB3	1.86	0.58
1:Y:116:LEU:C	1:Y:118:ASN:H	2.06	0.58
1:Y:542:ALA:HB3	1:Y:639:ASP:HB2	1.85	0.58
1:A:196:TRP:HE3	1:A:196:TRP:HA	1.71	0.58
1:A:332:LEU:HD21	1:A:407:MET:HB3	1.85	0.58
1:C:2:ALA:HB3	1:C:46:ALA:O	2.10	0.58
1:D:252:THR:O	1:D:254:GLN:N	2.35	0.58
1:C:781:VAL:HG21	1:D:786:GLN:OE1	2.15	0.58
1:E:180:LYS:HD2	1:E:208:VAL:HG12	1.88	0.58
1:E:220:ILE:O	1:E:253:VAL:HG22	2.45	0.58
1:E:391:GLN:HB2	1:E:398:VAL:HG22	2.93	0.58
1:E:551:ASN:HB3	1:E:554:ASP:HB3	1.92	0.58
1:F:597:ARG:HG3	1:F:600:ARG:HH21	1.68	0.58
1:G:175:ARG:NE	1:G:263:VAL:HG22	2.24	0.58
1:G:236:ARG:NH1	1:G:236:ARG:HB3	2.19	0.58
1:G:481:VAL:HG11	1:G:487:VAL:HG11	1.85	0.58
1:G:490:ASP:CG	1:G:491:PRO:HD2	2.24	0.58
1:H:495:PHE:HB3	1:H:514:LEU:CD1	2.34	0.58
1:J:332:LEU:HD23	1:J:358:LEU:HD11	1.90	0.58
1:J:767:GLU:O	1:J:771:ILE:HD13	2.03	0.58
1:K:320:ILE:N	1:K:320:ILE:HD13	2.41	0.58
1:K:87:ASP:CG	1:K:88:GLN:H	2.33	0.58
1:K:60:ILE:CG1	1:K:93:ALA:HA	2.96	0.58
1:L:115:VAL:N	1:L:118:ASN:ND2	2.51	0.58
1:L:476:LYS:HE2	1:M:485:GLU:HG3	2.20	0.58
1:L:573:LYS:HE3	1:M:522:PHE:CZ	2.66	0.58
1:L:759:LEU:HD21	1:M:765:VAL:HG22	1.84	0.58
1:N:327:SER:CB	1:N:331:GLY:HA3	2.32	0.58
1:P:320:ILE:N	1:P:320:ILE:HD13	2.19	0.58
1:Q:382:LEU:HB2	1:Q:404:SER:O	2.03	0.58
1:S:180:LYS:C	1:S:182:CYS:N	2.56	0.58
1:V:5:GLU:O	1:V:41:GLU:O	2.22	0.58
1:W:84:ARG:NH2	1:W:101:PRO:HD2	2.13	0.58
1:W:268:LEU:HD13	1:W:269:GLY:H	1.68	0.58
1:X:334:LEU:HD12	1:X:377:ARG:HH22	1.66	0.58
1:A:332:LEU:HD11	1:A:379:ALA:HB2	1.84	0.58
1:A:414:LEU:HB3	1:A:455:THR:HG21	1.85	0.58
1:B:284:ILE:CD1	1:B:300:ARG:HB3	3.37	0.58
1:B:506:LYS:HE2	1:B:524:THR:O	2.03	0.58
1:B:90:ILE:N	1:B:90:ILE:CD1	3.78	0.58
1:D:175:ARG:HE	1:D:263:VAL:HG22	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:729:ARG:NH1	1:D:729:ARG:HB2	2.18	0.58
1:D:762:VAL:O	1:D:766:ARG:HB2	2.08	0.58
1:G:215:LEU:HB3	1:G:259:HIS:NE2	2.18	0.58
1:G:569:GLY:O	1:G:573:LYS:HB2	2.04	0.58
1:I:472:ASP:HA	1:I:493:GLU:CB	2.34	0.58
1:L:137:VAL:HG23	1:L:138:MET:H	1.67	0.58
1:M:250:LEU:HD23	1:M:250:LEU:O	2.52	0.58
1:M:279:ARG:O	1:M:323:VAL:N	2.40	0.58
1:N:418:GLU:OE2	1:N:452:ARG:NH1	2.36	0.58
1:P:191:VAL:HG11	1:Q:201:VAL:HG21	1.85	0.58
1:P:762:VAL:O	1:P:766:ARG:HB2	2.03	0.58
1:Q:176:LEU:HD23	1:Q:211:GLU:HA	1.84	0.58
1:R:339:PRO:HG3	1:S:278:PRO:HB3	1.85	0.58
1:R:603:VAL:HG21	1:R:638:VAL:HG21	1.85	0.58
1:T:332:LEU:HB2	1:T:377:ARG:HB3	1.85	0.58
1:W:719:THR:O	1:W:723:LYS:HB2	2.03	0.58
1:Y:182:CYS:SG	1:Y:208:VAL:HG21	2.44	0.58
1:Y:338:GLN:CB	1:Y:339:PRO:HD3	2.33	0.58
1:Y:734:ARG:HH21	1:Y:735:ILE:HD13	1.69	0.58
1:A:167:VAL:HG22	1:A:201:VAL:O	2.04	0.58
1:B:472:ASP:HA	1:B:493:GLU:CB	2.33	0.58
1:C:391:GLN:HB2	1:C:398:VAL:HG22	2.23	0.58
1:C:654:LEU:CD1	1:D:662:ILE:CD1	2.81	0.58
1:D:83:LEU:HD12	1:D:86:ALA:HB3	1.83	0.58
1:E:54:PRO:CB	1:E:55:PRO:HD3	2.20	0.58
1:F:18:VAL:CG1	1:F:48:VAL:HG22	2.30	0.58
1:H:67:ARG:NH2	1:H:107:LYS:HA	2.35	0.58
1:H:120:ALA:O	1:H:161:GLU:HA	2.13	0.58
1:H:335:LYS:HB2	1:H:335:LYS:HZ3	1.88	0.58
1:H:596:ALA:O	1:H:600:ARG:HB2	2.03	0.58
1:H:807:ILE:HD13	1:I:806:THR:HG21	1.86	0.58
1:J:14:HIS:HD1	1:J:36:ILE:CG2	2.52	0.58
1:J:220:ILE:HD12	1:J:220:ILE:O	2.34	0.58
1:K:623:ARG:HG2	1:K:624:ASP:H	1.68	0.58
1:L:220:ILE:HD13	1:L:251:VAL:HG13	1.85	0.58
1:L:227:LEU:CB	1:L:251:VAL:HG12	2.27	0.58
1:L:58:TYR:HD1	1:L:99:LEU:CD1	2.17	0.58
1:M:469:GLN:HB3	1:M:496:THR:CG2	2.51	0.58
1:N:336:ALA:H	1:N:374:VAL:HG23	1.68	0.58
1:N:527:ILE:HD11	1:N:539:LEU:HD12	1.86	0.58
1:N:605:GLY:O	1:N:623:ARG:HB2	2.03	0.58
1:O:402:ILE:HD12	1:O:402:ILE:O	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:109:ILE:CD1	1:P:153:PRO:HB2	2.34	0.58
1:P:276:LEU:N	1:P:280:HIS:HB2	2.19	0.58
1:P:388:ILE:N	1:P:388:ILE:HD13	2.18	0.58
1:P:601:MET:HG2	1:P:622:ALA:HB2	1.86	0.58
1:R:354:GLY:HA3	1:S:328:GLU:HG3	1.85	0.58
1:S:109:ILE:CD1	1:S:153:PRO:HB2	2.34	0.58
1:S:384:GLN:H	1:S:384:GLN:NE2	2.01	0.58
1:U:60:ILE:HB	1:U:93:ALA:HA	1.86	0.58
1:V:221:LEU:HD21	1:V:256:THR:HG21	1.86	0.58
1:V:452:ARG:NH2	1:V:458:VAL:HG22	2.18	0.58
1:W:122:HIS:HB3	1:W:159:VAL:HB	1.86	0.58
1:X:175:ARG:NE	1:X:263:VAL:HG22	2.18	0.58
1:Y:28:VAL:HG12	1:Y:30:VAL:HG23	1.86	0.58
1:A:180:LYS:O	1:A:182:CYS:N	2.62	0.58
1:B:151:TYR:HD2	1:B:152:ILE:HD13	1.70	0.58
1:B:600:ARG:NH1	1:B:622:ALA:HB3	2.19	0.58
1:B:63:ASN:N	1:B:64:PRO:HD2	2.18	0.58
1:B:660:LEU:HD13	1:B:663:GLU:HG2	2.54	0.58
1:D:190:ARG:O	1:D:191:VAL:HG23	2.28	0.58
1:E:152:ILE:HD11	1:E:155:LYS:NZ	4.32	0.58
1:F:332:LEU:CD2	1:F:407:MET:HB2	2.41	0.58
1:F:469:GLN:HB3	1:F:496:THR:HG21	1.86	0.58
1:F:58:TYR:CD1	1:F:99:LEU:HD12	3.06	0.58
1:F:804:PRO:O	1:F:807:ILE:HD11	2.04	0.58
1:G:527:ILE:HD11	1:G:539:LEU:HB2	1.86	0.58
1:H:194:GLU:HG2	1:H:195:GLU:H	1.86	0.58
1:I:74:LEU:HD22	1:I:100:TYR:HE2	1.67	0.58
1:I:109:ILE:HD12	1:I:153:PRO:HG2	1.85	0.58
1:I:30:VAL:HG13	1:I:74:LEU:HD11	1.86	0.58
1:I:384:GLN:NE2	1:I:384:GLN:H	2.22	0.58
1:H:704:LYS:HD2	1:I:712:MET:HB3	1.87	0.58
1:J:115:VAL:O	1:J:118:ASN:HB3	2.03	0.58
1:J:227:LEU:HB2	1:J:251:VAL:HG13	1.86	0.58
1:J:61:VAL:HG13	1:J:65:VAL:HG23	1.86	0.58
1:K:128:ASP:OD1	1:K:131:ASP:HB3	2.04	0.58
1:K:377:ARG:NH1	1:K:408:LEU:O	2.37	0.58
1:K:464:HIS:CD2	1:K:484:PRO:HB3	2.38	0.58
1:L:319:GLY:C	1:L:320:ILE:HD13	2.22	0.58
1:L:597:ARG:HG3	1:L:600:ARG:NH2	2.19	0.58
1:M:408:LEU:HD21	1:M:414:LEU:CD1	2.29	0.58
1:N:174:LEU:HB2	1:N:198:VAL:HB	1.86	0.58
1:N:46:ALA:N	1:N:47:PRO:CD	2.67	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:109:ILE:HD12	1:P:153:PRO:HG2	1.84	0.58
1:P:1:MET:HE3	1:P:47:PRO:HB3	1.85	0.58
1:P:472:ASP:HA	1:P:493:GLU:CB	2.34	0.58
1:Q:281:TYR:CE1	1:Q:321:GLN:HB2	2.38	0.58
1:Q:653:ALA:CB	1:R:662:ILE:HD12	2.32	0.58
1:R:243:HIS:NE2	1:R:249:TRP:CE2	2.71	0.58
1:S:185:ARG:HH22	1:S:207:ALA:HB3	1.68	0.58
1:S:284:ILE:HD13	1:S:300:ARG:O	2.03	0.58
1:U:452:ARG:NH1	1:U:452:ARG:HG3	2.16	0.58
1:U:84:ARG:HH22	1:U:101:PRO:HD2	1.69	0.58
1:W:9:ARG:NH1	1:W:36:ILE:HA	2.18	0.58
1:X:368:SER:HB3	1:X:371:VAL:HG23	1.85	0.58
1:X:5:GLU:HG2	1:X:43:VAL:CG2	2.33	0.58
1:A:152:ILE:N	1:A:152:ILE:CD1	2.65	0.58
1:B:338:GLN:OE1	1:C:278:PRO:HB2	2.04	0.58
1:D:169:LYS:HG3	1:D:170:GLN:H	1.67	0.58
1:F:227:LEU:HB2	1:F:251:VAL:HG12	1.86	0.58
1:F:339:PRO:HD2	1:F:370:LYS:HB3	2.29	0.58
1:F:540:GLN:O	1:F:641:GLN:HG2	2.03	0.58
1:H:70:GLN:HB3	1:H:104:VAL:O	2.16	0.58
1:H:132:LYS:HZ1	1:H:152:ILE:HG23	2.38	0.58
1:I:165:ALA:CB	1:I:174:LEU:HD11	2.34	0.58
1:I:338:GLN:HB2	1:I:339:PRO:HD3	1.86	0.58
1:J:327:SER:O	1:J:328:GLU:CB	2.48	0.58
1:K:217:ASP:OD1	1:K:257:GLU:O	2.25	0.58
1:L:115:VAL:O	1:L:118:ASN:HB2	2.70	0.58
1:L:354:GLY:O	1:L:356:CYS:N	2.51	0.58
1:M:169:LYS:HG3	1:M:170:GLN:H	2.96	0.58
1:M:54:PRO:CB	1:M:55:PRO:HD3	2.37	0.58
1:M:84:ARG:HH22	1:M:101:PRO:HD2	1.67	0.58
1:N:579:VAL:CG2	1:N:599:ILE:HD12	2.34	0.58
1:P:536:ARG:HB2	1:P:646:VAL:HB	1.85	0.58
1:R:70:GLN:HB3	1:R:104:VAL:O	2.04	0.58
1:R:77:ILE:CG1	1:R:79:GLY:H	1.99	0.58
1:S:419:LEU:HG	1:S:420:PRO:CD	2.29	0.58
1:U:310:LEU:HD21	1:U:316:LEU:HG	1.86	0.58
1:V:189:GLY:O	1:V:190:ARG:HB3	2.04	0.58
1:V:342:GLU:HA	1:V:350:SER:HA	1.85	0.58
1:W:72:SER:HB3	1:W:84:ARG:HH21	1.67	0.58
1:X:16:ILE:HA	1:X:34:THR:OG1	2.03	0.58
1:B:185:ARG:NH2	1:B:208:VAL:HG22	2.36	0.58
1:B:481:VAL:HG11	1:B:487:VAL:HG11	1.91	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:752:ALA:O	1:B:756:GLU:HB2	2.34	0.58
1:C:221:LEU:HD13	1:C:256:THR:HB	2.12	0.58
1:D:19:LEU:HA	1:D:32:PRO:HB3	1.85	0.58
1:E:60:ILE:HD13	1:E:60:ILE:N	3.60	0.58
1:F:596:ALA:O	1:F:600:ARG:HB2	2.03	0.58
1:F:73:VAL:HG11	1:F:82:ARG:HB2	2.86	0.58
1:G:65:VAL:HG13	1:G:110:THR:HG22	1.86	0.58
1:G:196:TRP:CE3	1:G:196:TRP:HA	2.38	0.58
1:G:262:ASP:HB3	1:G:264:TYR:CE1	2.39	0.58
1:G:285:LEU:HD23	1:G:299:LYS:HB3	1.85	0.58
1:G:90:ILE:HD13	1:G:90:ILE:H	4.36	0.58
1:H:84:ARG:HH22	1:H:101:PRO:HD2	2.14	0.58
1:J:384:GLN:N	1:J:384:GLN:HE21	2.56	0.58
1:M:174:LEU:CB	1:M:198:VAL:HB	2.34	0.58
1:L:580:ARG:NH2	1:M:595:SER:HB2	2.43	0.58
1:N:452:ARG:HG3	1:N:452:ARG:NH1	2.18	0.58
1:O:123:LEU:HA	1:O:158:GLU:HA	1.85	0.58
1:O:129:PHE:O	1:O:130:GLU:HG2	2.04	0.58
1:P:67:ARG:HH21	1:P:107:LYS:HA	1.67	0.58
1:Q:182:CYS:SG	1:Q:208:VAL:HG21	2.42	0.58
1:R:796:LYS:HA	1:R:799:THR:HG22	1.84	0.58
1:V:191:VAL:HG12	1:V:194:GLU:HB2	1.85	0.58
1:V:18:VAL:N	1:V:48:VAL:HG13	2.18	0.58
1:W:759:LEU:HD21	1:X:765:VAL:HG22	1.86	0.58
1:X:243:HIS:NE2	1:X:249:TRP:CD2	2.72	0.58
1:Y:551:ASN:HB3	1:Y:554:ASP:HB3	1.84	0.58
1:Z:19:LEU:HD23	1:Z:32:PRO:HB2	1.86	0.58
1:B:6:ALA:HA	1:B:41:GLU:O	2.32	0.57
1:C:230:ARG:HB3	1:C:230:ARG:HH11	1.71	0.57
1:C:542:ALA:HB3	1:C:639:ASP:HB2	1.85	0.57
1:D:302:VAL:HG21	1:D:308:PHE:CE2	2.38	0.57
1:D:16:ILE:HB	1:D:51:VAL:HB	1.86	0.57
1:D:543:TYR:CE2	1:D:575:ILE:HG21	2.39	0.57
1:E:64:PRO:HA	1:E:111:PRO:HD2	1.89	0.57
1:F:239:ARG:NH2	1:F:257:GLU:HG2	2.26	0.57
1:F:273:ILE:CD1	1:F:316:LEU:HD21	2.33	0.57
1:G:419:LEU:HD22	1:G:422:GLY:H	2.00	0.57
1:I:571:ALA:O	1:I:575:ILE:HG13	3.41	0.57
1:L:402:ILE:O	1:L:402:ILE:HD12	2.03	0.57
1:L:5:GLU:OE1	1:L:43:VAL:HG11	2.04	0.57
1:L:6:ALA:HB1	1:L:42:ARG:HH22	1.69	0.57
1:M:272:PRO:HB3	1:M:309:PHE:CE2	2.89	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:476:LYS:CE	1:M:485:GLU:HG3	2.99	0.57
1:N:14:HIS:HB2	1:N:56:ARG:HB2	1.86	0.57
1:N:481:VAL:HG13	1:N:481:VAL:O	2.04	0.57
1:N:766:ARG:O	1:N:770:LEU:HB2	2.03	0.57
1:P:15:TYR:CE2	1:P:17:HIS:HB3	2.38	0.57
1:P:58:TYR:CD1	1:P:98:PRO:HA	2.39	0.57
1:Q:130:GLU:HA	1:Q:137:VAL:HG12	1.85	0.57
1:S:227:LEU:CB	1:S:251:VAL:HG12	2.32	0.57
1:T:273:ILE:HG21	1:T:316:LEU:HD11	1.84	0.57
1:T:762:VAL:O	1:T:766:ARG:HB2	2.03	0.57
1:W:130:GLU:N	1:W:137:VAL:HG13	2.19	0.57
1:W:232:LEU:H	1:W:264:TYR:HD2	1.52	0.57
1:W:415:TRP:CZ3	1:W:417:LYS:HB3	2.38	0.57
1:X:109:ILE:HD12	1:X:153:PRO:CG	2.34	0.57
1:X:36:ILE:O	1:X:37:ARG:HG3	2.04	0.57
1:Y:262:ASP:HB3	1:Y:264:TYR:CZ	2.39	0.57
1:Z:382:LEU:N	1:Z:405:THR:HG22	2.19	0.57
1:A:244:ARG:O	1:A:247:GLU:HB2	2.03	0.57
1:B:591:PHE:CE2	1:B:599:ILE:HD11	2.39	0.57
1:D:7:ILE:O	1:D:41:GLU:HG3	2.27	0.57
1:E:402:ILE:HD12	1:E:402:ILE:O	2.03	0.57
1:G:229:LEU:O	1:G:248:GLU:HA	2.04	0.57
1:G:324:TYR:O	1:G:365:TYR:N	2.45	0.57
1:H:121:LEU:HB2	1:H:145:PHE:HB3	1.86	0.57
1:H:14:HIS:NE2	1:H:16:ILE:HD11	2.30	0.57
1:H:327:SER:HB2	1:H:331:GLY:N	2.18	0.57
1:H:481:VAL:HG11	1:H:487:VAL:HG11	1.84	0.57
1:I:421:SER:O	1:I:423:VAL:N	2.37	0.57
1:I:597:ARG:HG3	1:I:600:ARG:HH21	1.69	0.57
1:H:745:LYS:CG	1:I:753:ILE:CD1	2.89	0.57
1:J:771:ILE:HD13	1:J:774:ARG:NH1	3.77	0.57
1:K:106:GLU:O	1:K:107:LYS:HD2	2.48	0.57
1:K:146:GLU:HA	1:K:146:GLU:OE1	2.09	0.57
1:L:221:LEU:HD22	1:L:256:THR:HG21	2.10	0.57
1:M:106:GLU:O	1:M:107:LYS:HD2	2.52	0.57
1:O:600:ARG:NH1	1:O:622:ALA:HB3	2.19	0.57
1:P:215:LEU:HD12	1:P:259:HIS:NE2	2.19	0.57
1:P:380:ILE:HD12	1:P:406:TYR:O	2.04	0.57
1:O:127:LEU:HD12	1:P:64:PRO:HG3	1.84	0.57
1:Q:199:ARG:NH2	1:Q:258:ALA:HB3	2.19	0.57
1:S:36:ILE:O	1:S:36:ILE:HD13	2.03	0.57
1:S:402:ILE:N	1:S:402:ILE:HD13	2.19	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:333:LEU:HB2	1:T:359:ILE:HD11	1.86	0.57
1:U:234:ASN:ND2	1:U:245:THR:H	2.02	0.57
1:U:415:TRP:CH2	1:U:417:LYS:HB3	2.39	0.57
1:V:332:LEU:HD23	1:V:358:LEU:HD12	1.86	0.57
1:V:9:ARG:NH1	1:V:36:ILE:HA	2.18	0.57
1:W:132:LYS:HZ1	1:W:152:ILE:HD12	1.67	0.57
1:W:182:CYS:SG	1:W:208:VAL:CG2	2.91	0.57
1:W:46:ALA:N	1:W:47:PRO:CD	2.66	0.57
1:Y:62:ALA:O	1:Y:93:ALA:HB2	2.05	0.57
1:Z:5:GLU:HG2	1:Z:43:VAL:CG2	2.34	0.57
1:A:595:SER:HB2	1:Z:580:ARG:HH22	207.69	0.57
1:B:46:ALA:N	1:B:47:PRO:CD	2.67	0.57
1:D:273:ILE:HG13	1:D:308:PHE:HB3	1.86	0.57
1:D:287:PRO:HA	1:D:314:GLU:OE2	2.04	0.57
1:D:296:LEU:HD22	1:D:296:LEU:N	2.59	0.57
1:C:396:GLY:CA	1:D:405:THR:HG23	2.51	0.57
1:D:563:SER:HB3	1:E:520:PRO:HG3	1.85	0.57
1:E:341:GLU:HG2	1:E:370:LYS:HD3	2.39	0.57
1:F:560:LYS:HD2	1:F:630:GLN:O	2.35	0.57
1:G:123:LEU:HG	1:G:143:TRP:HB2	2.14	0.57
1:G:3:THR:HG22	1:G:50:MET:HE1	2.23	0.57
1:G:476:LYS:HE2	1:H:485:GLU:HG3	2.36	0.57
1:I:100:TYR:CD2	1:I:101:PRO:HD3	2.37	0.57
1:I:469:GLN:HB3	1:I:496:THR:CG2	2.31	0.57
1:J:320:ILE:N	1:J:320:ILE:HD13	4.56	0.57
1:J:402:ILE:HD12	1:J:402:ILE:O	2.18	0.57
1:J:597:ARG:HG3	1:J:600:ARG:HH21	1.69	0.57
1:K:68:ASP:HA	1:K:90:ILE:HA	1.87	0.57
1:L:63:ASN:N	1:L:64:PRO:HD2	2.20	0.57
1:M:244:ARG:HB3	1:N:221:LEU:CD2	2.34	0.57
1:M:476:LYS:HE2	1:N:485:GLU:HG3	1.86	0.57
1:P:69:THR:HA	1:P:106:GLU:CB	2.33	0.57
1:S:227:LEU:O	1:S:250:LEU:HA	2.04	0.57
1:U:132:LYS:HZ2	1:U:152:ILE:HD12	1.69	0.57
1:U:252:THR:O	1:U:254:GLN:N	2.37	0.57
1:U:46:ALA:N	1:U:47:PRO:CD	2.67	0.57
1:V:766:ARG:HD3	1:W:772:TYR:HB2	1.85	0.57
1:V:8:ILE:HG22	1:V:40:ASN:ND2	2.18	0.57
1:X:359:ILE:HD12	1:X:359:ILE:O	2.04	0.57
1:X:70:GLN:HB3	1:X:104:VAL:O	2.03	0.57
1:Z:281:TYR:CE1	1:Z:321:GLN:HB2	2.39	0.57
1:A:273:ILE:HD11	1:A:308:PHE:HD2	1.70	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:1:MET:HE1	1:A:47:PRO:HB3	1.87	0.57
1:A:589:ASP:HB2	1:B:665:THR:HG21	2.17	0.57
1:B:336:ALA:HA	1:B:356:CYS:CB	2.54	0.57
1:A:573:LYS:HE3	1:B:522:PHE:CZ	2.39	0.57
1:D:529:ILE:CD1	1:D:537:LEU:HB2	2.33	0.57
1:F:16:ILE:HB	1:F:51:VAL:HB	1.86	0.57
1:F:571:ALA:O	1:F:575:ILE:HG13	2.05	0.57
1:H:115:VAL:HB	1:H:148:PRO:HA	2.66	0.57
1:I:589:ASP:HB2	1:J:665:THR:HG21	1.96	0.57
1:J:217:ASP:OD1	1:J:257:GLU:O	4.48	0.57
1:K:17:HIS:CD2	1:K:18:VAL:HG22	2.49	0.57
1:M:123:LEU:HG	1:M:143:TRP:HB2	1.85	0.57
1:M:90:ILE:CD1	1:M:154:GLN:HG2	4.42	0.57
1:N:176:LEU:HD13	1:N:209:PHE:CD1	2.34	0.57
1:O:90:ILE:HD12	1:O:90:ILE:O	2.04	0.57
1:P:120:ALA:O	1:P:161:GLU:HA	2.04	0.57
1:Q:796:LYS:HA	1:Q:799:THR:HG22	1.85	0.57
1:R:221:LEU:HD13	1:R:256:THR:HB	1.87	0.57
1:R:227:LEU:O	1:R:250:LEU:HA	2.03	0.57
1:R:220:ILE:O	1:R:253:VAL:HG22	2.04	0.57
1:S:529:ILE:CD1	1:S:583:VAL:HG11	2.35	0.57
1:U:239:ARG:NH2	1:U:257:GLU:HG2	2.18	0.57
1:U:760:GLU:O	1:U:764:LYS:HG2	2.04	0.57
1:V:540:GLN:HB2	1:V:642:SER:HB3	1.86	0.57
1:V:14:HIS:CB	1:V:56:ARG:HB2	2.34	0.57
1:W:151:TYR:CD2	1:W:152:ILE:HD13	2.39	0.57
1:X:121:LEU:HD12	1:X:145:PHE:HD2	1.67	0.57
1:Y:511:ARG:NH2	1:Y:517:LEU:HD11	2.16	0.57
1:Z:65:VAL:HG12	1:Z:110:THR:CG2	2.35	0.57
1:Z:399:ARG:HG2	1:Z:399:ARG:NH1	2.19	0.57
1:A:662:ILE:HD11	1:Z:653:ALA:HB1	176.45	0.57
1:A:472:ASP:HA	1:A:493:GLU:CB	2.42	0.57
1:B:296:LEU:H	1:B:296:LEU:HD13	1.69	0.57
1:B:327:SER:O	1:B:328:GLU:HB3	2.03	0.57
1:B:452:ARG:NH2	1:B:458:VAL:HG22	2.95	0.57
1:A:766:ARG:HG3	1:B:772:TYR:CD1	2.54	0.57
1:C:574:ALA:O	1:C:578:ARG:HG3	2.05	0.57
1:D:61:VAL:HG13	1:D:65:VAL:HG23	1.86	0.57
1:E:121:LEU:HD12	1:E:145:PHE:HD2	1.70	0.57
1:E:180:LYS:C	1:E:182:CYS:H	2.40	0.57
1:G:10:ILE:HD13	1:G:13:TYR:CD2	2.38	0.57
1:G:184:ASP:HB2	1:G:189:GLY:O	2.45	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:470:VAL:HB	1:G:479:ARG:HD2	1.85	0.57
1:H:281:TYR:HD2	1:H:366:VAL:HG13	1.69	0.57
1:I:701:LYS:HG3	1:J:709:LEU:HD13	2.22	0.57
1:L:128:ASP:OD1	1:L:131:ASP:HB3	2.04	0.57
1:M:19:LEU:HD23	1:M:32:PRO:HB2	1.86	0.57
1:M:605:GLY:O	1:M:623:ARG:HB2	2.05	0.57
1:M:68:ASP:O	1:M:106:GLU:HB2	2.04	0.57
1:M:70:GLN:HE21	1:M:104:VAL:HG12	1.70	0.57
1:N:175:ARG:HG3	1:N:215:LEU:HD23	1.85	0.57
1:Q:29:GLU:O	1:Q:84:ARG:NH1	2.36	0.57
1:Q:564:VAL:CG2	1:Q:631:ASN:ND2	2.67	0.57
1:S:64:PRO:HA	1:S:111:PRO:HD2	1.85	0.57
1:T:3:THR:HG22	1:T:50:MET:HE2	1.86	0.57
1:V:419:LEU:HD23	1:V:421:SER:H	1.70	0.57
1:W:185:ARG:NH1	1:W:206:PRO:HB3	2.19	0.57
1:W:708:GLU:HG3	1:X:716:VAL:HG11	1.85	0.57
1:A:796:LYS:HA	1:A:799:THR:HG22	1.86	0.57
1:B:623:ARG:CG	1:B:624:ASP:H	2.17	0.57
1:C:690:ARG:HE	1:C:694:LEU:HD11	1.69	0.57
1:D:152:ILE:H	1:D:152:ILE:HD13	1.69	0.57
1:E:689:GLU:O	1:E:693:ILE:HD13	4.38	0.57
1:F:164:GLN:NE2	1:F:204:TYR:HB2	2.19	0.57
1:F:72:SER:HB3	1:F:84:ARG:HH21	1.93	0.57
1:G:174:LEU:HB2	1:G:198:VAL:HB	1.87	0.57
1:G:8:ILE:HA	1:G:40:ASN:HD22	1.75	0.57
1:H:183:PHE:HE2	1:H:188:LYS:HA	1.88	0.57
1:I:121:LEU:HB2	1:I:145:PHE:HB3	2.20	0.57
1:I:408:LEU:HD12	1:I:408:LEU:H	1.70	0.57
1:K:120:ALA:HB3	1:K:162:ILE:HG13	1.87	0.57
1:L:109:ILE:HD11	1:L:153:PRO:HB2	1.85	0.57
1:L:125:ALA:HB3	1:L:140:GLY:HA2	2.13	0.57
1:L:399:ARG:HA	1:L:491:PRO:HG3	2.11	0.57
1:N:122:HIS:HB3	1:N:160:VAL:H	1.70	0.57
1:N:536:ARG:HB2	1:N:646:VAL:HB	1.86	0.57
1:O:130:GLU:HA	1:O:137:VAL:N	2.13	0.57
1:Q:766:ARG:O	1:Q:770:LEU:HB2	2.05	0.57
1:R:408:LEU:HD21	1:R:414:LEU:HD12	1.86	0.57
1:S:121:LEU:HD12	1:S:145:PHE:HD2	1.69	0.57
1:S:15:TYR:CE2	1:S:17:HIS:HB3	2.40	0.57
1:S:340:LEU:HD23	1:S:352:GLN:HA	1.86	0.57
1:U:191:VAL:HG12	1:U:194:GLU:HB2	1.85	0.57
1:V:262:ASP:HB3	1:V:264:TYR:CE1	2.40	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:46:ALA:N	1:V:47:PRO:CD	2.68	0.57
1:V:551:ASN:HB2	1:V:557:GLU:OE2	2.04	0.57
1:X:163:ILE:HD12	1:X:163:ILE:O	2.05	0.57
1:X:755:THR:HG21	1:Y:761:ARG:HG2	1.86	0.57
1:Z:380:ILE:O	1:Z:380:ILE:HD12	2.05	0.57
1:A:123:LEU:CG	1:A:143:TRP:HB2	2.52	0.57
1:A:14:HIS:HB3	1:A:56:ARG:HB2	1.86	0.57
1:A:368:SER:HB3	1:A:371:VAL:HG23	2.30	0.57
1:A:46:ALA:N	1:A:47:PRO:CD	2.67	0.57
1:C:70:GLN:CB	1:C:104:VAL:O	2.94	0.57
1:C:68:ASP:O	1:C:106:GLU:HB2	2.04	0.57
1:C:600:ARG:HH12	1:C:622:ALA:HB3	1.69	0.57
1:D:115:VAL:HA	1:D:147:GLY:O	2.05	0.57
1:D:360:ARG:HG3	1:D:361:GLY:N	2.32	0.57
1:D:759:LEU:HD21	1:E:765:VAL:HG22	1.90	0.57
1:D:777:LEU:HD11	1:E:783:LYS:CB	2.47	0.57
1:F:229:LEU:HD23	1:F:266:GLU:HA	1.86	0.57
1:G:221:LEU:HD21	1:G:256:THR:CG2	3.20	0.57
1:G:653:ALA:HB3	1:H:662:ILE:HD11	1.84	0.57
1:J:330:GLN:O	1:J:378:GLN:NE2	2.38	0.57
1:K:221:LEU:CD2	1:K:256:THR:CB	3.25	0.57
1:K:73:VAL:H	1:K:84:ARG:HG3	3.26	0.57
1:L:337:LEU:HG	1:L:354:GLY:H	4.46	0.57
1:M:176:LEU:HD22	1:M:209:PHE:HB3	2.91	0.57
1:M:417:LYS:HE3	1:M:491:PRO:O	2.05	0.57
1:N:182:CYS:SG	1:N:208:VAL:CG2	2.93	0.57
1:N:796:LYS:HA	1:N:799:THR:HG22	1.85	0.57
1:O:29:GLU:O	1:O:84:ARG:NH1	2.37	0.57
1:P:296:LEU:HD22	1:P:296:LEU:N	2.20	0.57
1:P:73:VAL:N	1:P:84:ARG:HB2	2.08	0.57
1:R:67:ARG:NE	1:R:108:ASP:HB3	2.18	0.57
1:S:152:ILE:CD1	1:S:152:ILE:N	2.65	0.57
1:S:660:LEU:HA	1:S:663:GLU:CB	2.35	0.57
1:T:327:SER:CB	1:T:331:GLY:HA3	2.35	0.57
1:T:419:LEU:HD23	1:T:421:SER:H	1.70	0.57
1:T:43:VAL:HG12	1:T:45:PHE:O	2.04	0.57
1:W:310:LEU:HD21	1:W:316:LEU:HG	1.87	0.57
1:X:120:ALA:HB3	1:X:162:ILE:HG13	1.85	0.57
1:Y:342:GLU:HA	1:Y:350:SER:HA	1.85	0.57
1:Y:785:GLN:HA	1:Z:790:VAL:CG2	2.34	0.57
1:Z:85:HIS:NE2	1:Z:102:GLY:HA3	2.20	0.57
1:A:586:VAL:HG12	1:A:587:THR:O	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:115:VAL:N	1:B:118:ASN:HD22	2.25	0.57
1:B:335:LYS:HZ3	1:B:335:LYS:HB2	2.00	0.57
1:B:72:SER:HB3	1:B:84:ARG:HH21	1.69	0.57
1:C:8:ILE:HA	1:C:40:ASN:HD22	1.68	0.57
1:C:54:PRO:CB	1:C:55:PRO:HD3	2.23	0.57
1:D:10:ILE:N	1:D:10:ILE:HD12	2.21	0.57
1:C:580:ARG:HH22	1:D:595:SER:CB	2.19	0.57
1:D:758:GLU:O	1:D:762:VAL:HG23	2.29	0.57
1:E:123:LEU:HA	1:E:158:GLU:HA	1.84	0.57
1:E:152:ILE:CD1	1:E:155:LYS:NZ	4.59	0.57
1:F:472:ASP:HA	1:F:493:GLU:CB	2.35	0.57
1:G:14:HIS:HB3	1:G:56:ARG:CG	2.56	0.57
1:G:501:SER:HB3	1:G:508:PRO:HA	1.87	0.57
1:G:689:GLU:O	1:G:693:ILE:HD13	4.38	0.57
1:J:208:VAL:HG23	1:J:209:PHE:HD2	1.70	0.57
1:J:268:LEU:HD13	1:J:269:GLY:H	2.08	0.57
1:J:294:ASN:HD21	1:J:313:GLY:CA	2.18	0.57
1:J:36:ILE:CD1	1:J:36:ILE:O	2.48	0.57
1:J:529:ILE:CD1	1:J:537:LEU:HB2	2.34	0.57
1:J:5:GLU:CA	1:J:7:ILE:CD1	4.76	0.57
1:J:601:MET:CG	1:J:622:ALA:HB2	2.33	0.57
1:K:70:GLN:HB3	1:K:104:VAL:H	1.73	0.57
1:L:14:HIS:HB2	1:L:56:ARG:HB2	1.97	0.57
1:L:600:ARG:NH1	1:L:622:ALA:HB3	2.30	0.57
1:M:380:ILE:HD12	1:M:406:TYR:O	2.04	0.57
1:N:125:ALA:O	1:N:140:GLY:HA2	2.03	0.57
1:O:185:ARG:HG3	1:O:206:PRO:CB	2.35	0.57
1:P:9:ARG:CZ	1:P:15:TYR:HB3	2.34	0.57
1:P:273:ILE:HG23	1:P:310:LEU:HD11	1.85	0.57
1:Q:115:VAL:N	1:Q:118:ASN:HD22	2.03	0.57
1:R:332:LEU:CD2	1:R:407:MET:HB2	2.26	0.57
1:S:176:LEU:HB2	1:S:196:TRP:CB	2.34	0.57
1:S:36:ILE:C	1:S:36:ILE:HD13	2.25	0.57
1:T:573:LYS:HE3	1:U:522:PHE:CZ	2.39	0.57
1:U:469:GLN:O	1:U:496:THR:HB	2.04	0.57
1:U:54:PRO:CB	1:U:55:PRO:HD3	2.25	0.57
1:U:5:GLU:O	1:U:41:GLU:O	2.22	0.57
1:V:174:LEU:H	1:V:198:VAL:HB	1.70	0.57
1:W:227:LEU:O	1:W:250:LEU:HA	2.05	0.57
1:W:239:ARG:HH21	1:W:257:GLU:HG2	1.69	0.57
1:W:36:ILE:HG13	1:W:36:ILE:O	2.04	0.57
1:X:30:VAL:HG13	1:X:74:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:527:ILE:HD11	1:X:541:LEU:HD11	1.86	0.57
1:Z:472:ASP:HA	1:Z:493:GLU:HB3	1.85	0.57
1:A:129:PHE:O	1:A:137:VAL:O	2.22	0.57
1:A:175:ARG:HB3	1:A:212:VAL:HB	2.17	0.57
1:A:329:GLN:NE2	1:Z:394:LYS:HA	295.42	0.57
1:B:120:ALA:O	1:B:161:GLU:HA	2.09	0.57
1:B:217:ASP:OD2	1:B:257:GLU:O	3.64	0.57
1:B:384:GLN:HE21	1:B:384:GLN:N	1.93	0.57
1:B:90:ILE:HD12	1:B:154:GLN:CG	6.51	0.57
1:B:715:ALA:HA	1:C:724:ALA:HB1	1.87	0.57
1:D:363:LEU:HD13	1:D:364:GLU:H	1.69	0.57
1:D:391:GLN:HB2	1:D:398:VAL:HG22	2.26	0.57
1:E:130:GLU:HA	1:E:136:LYS:HA	2.10	0.57
1:E:14:HIS:NE2	1:E:16:ILE:HD11	3.19	0.57
1:E:380:ILE:HD13	1:E:388:ILE:HD13	1.86	0.57
1:F:184:ASP:HB3	1:F:187:GLY:O	2.49	0.57
1:F:518:LEU:HA	1:F:547:PHE:HD1	1.70	0.57
1:G:226:ALA:HB3	1:G:270:VAL:CG1	2.33	0.57
1:H:144:LEU:HD22	1:H:204:TYR:HE2	1.70	0.57
1:H:354:GLY:HA3	1:I:328:GLU:HG3	2.28	0.57
1:H:663:GLU:O	1:H:666:THR:HG22	2.23	0.57
1:J:190:ARG:O	1:J:191:VAL:HG23	2.34	0.57
1:J:777:LEU:HD11	1:K:783:LYS:CB	2.53	0.57
1:K:109:ILE:CD1	1:K:153:PRO:HG2	2.35	0.57
1:K:7:ILE:O	1:K:41:GLU:HG2	2.54	0.57
1:K:30:VAL:HG22	1:K:74:LEU:HG	1.86	0.57
1:L:273:ILE:HD11	1:L:308:PHE:HD2	1.70	0.57
1:L:587:THR:HG23	1:L:590:ASP:CB	2.35	0.57
1:M:8:ILE:CD1	1:M:8:ILE:H	3.94	0.57
1:N:296:LEU:HD22	1:N:296:LEU:N	2.20	0.57
1:N:324:TYR:O	1:N:365:TYR:N	2.31	0.57
1:N:734:ARG:HH21	1:N:735:ILE:CD1	2.18	0.57
1:P:146:GLU:OE1	1:P:146:GLU:HA	2.05	0.57
1:P:18:VAL:N	1:P:48:VAL:HG13	2.19	0.57
1:Q:338:GLN:OE1	1:R:278:PRO:CB	2.52	0.57
1:Q:379:ALA:HB2	1:Q:407:MET:HB3	1.87	0.57
1:R:490:ASP:CG	1:R:491:PRO:HD2	2.24	0.57
1:R:522:PHE:C	1:R:522:PHE:CD2	2.77	0.57
1:S:252:THR:O	1:S:254:GLN:N	2.38	0.57
1:S:394:LYS:HG2	1:T:329:GLN:CG	2.23	0.57
1:S:501:SER:HA	1:S:507:ARG:O	2.05	0.57
1:U:268:LEU:HD13	1:U:269:GLY:H	1.69	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:29:GLU:O	1:V:84:ARG:NH1	2.35	0.57
1:V:381:PRO:HA	1:V:405:THR:CG2	2.33	0.57
1:W:284:ILE:N	1:W:284:ILE:HD13	2.19	0.57
1:W:332:LEU:HD11	1:W:379:ALA:HB2	1.86	0.57
1:X:18:VAL:O	1:X:32:PRO:HB3	2.04	0.57
1:Y:60:ILE:HG22	1:Y:66:SER:HB2	1.85	0.57
1:Z:228:HIS:NE2	1:Z:312:PRO:HB3	2.19	0.57
1:Y:580:ARG:HD2	1:Z:640:VAL:O	2.05	0.57
1:A:284:ILE:HD13	1:A:300:ARG:O	5.36	0.57
1:A:320:ILE:HD13	1:A:320:ILE:N	2.20	0.57
1:A:381:PRO:HA	1:A:405:THR:CG2	2.30	0.57
1:A:452:ARG:HG3	1:A:452:ARG:NH1	2.29	0.57
1:C:213:LEU:HD13	1:C:214:ASP:H	2.30	0.57
1:C:16:ILE:HA	1:C:34:THR:OG1	2.12	0.57
1:C:502:ALA:HB3	1:C:510:ALA:HB3	2.29	0.57
1:C:518:LEU:HA	1:C:547:PHE:HD1	1.69	0.57
1:D:227:LEU:HD13	1:D:229:LEU:HD21	2.06	0.57
1:D:43:VAL:HG12	1:D:45:PHE:O	2.09	0.57
1:D:727:GLU:HG3	1:E:735:ILE:CD1	2.34	0.57
1:E:693:ILE:HD12	1:E:696:GLN:NE2	5.95	0.57
1:F:262:ASP:HB3	1:F:264:TYR:CE1	2.40	0.57
1:H:123:LEU:HD11	1:H:143:TRP:HB2	1.87	0.57
1:H:70:GLN:HE21	1:H:104:VAL:HG12	2.26	0.57
1:I:220:ILE:CD1	1:I:251:VAL:HG13	3.68	0.57
1:I:284:ILE:CD1	1:I:302:VAL:HG22	2.51	0.57
1:I:474:ARG:CG	1:I:492:GLU:HB2	2.34	0.57
1:J:481:VAL:O	1:J:481:VAL:HG13	2.07	0.57
1:J:73:VAL:HG11	1:J:82:ARG:HB2	1.86	0.57
1:K:239:ARG:NH2	1:K:257:GLU:HG2	2.48	0.57
1:K:400:ALA:HB2	1:K:491:PRO:HD3	2.10	0.57
1:J:127:LEU:HD12	1:K:64:PRO:HD3	2.41	0.57
1:K:180:LYS:HB3	1:L:116:LEU:HD13	1.86	0.57
1:L:208:VAL:HG23	1:L:209:PHE:HD2	1.68	0.57
1:L:281:TYR:CE1	1:L:321:GLN:HB2	2.40	0.57
1:M:517:LEU:H	1:M:517:LEU:HD12	1.72	0.57
1:N:808:ARG:NH2	1:O:806:THR:HA	2.20	0.57
1:S:215:LEU:HD12	1:S:259:HIS:NE2	2.20	0.57
1:T:8:ILE:HG22	1:T:40:ASN:ND2	2.20	0.57
1:U:494:GLN:NE2	1:U:494:GLN:HA	2.19	0.57
1:T:719:THR:HG22	1:U:728:SER:HA	1.87	0.57
1:V:70:GLN:CB	1:V:104:VAL:O	2.52	0.57
1:V:517:LEU:O	1:V:545:TRP:HH2	1.88	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:601:MET:HG2	1:Y:622:ALA:CB	2.34	0.57
1:Y:77:ILE:HG13	1:Y:80:GLN:N	2.13	0.57
1:Z:180:LYS:C	1:Z:182:CYS:N	2.56	0.57
1:Z:72:SER:HA	1:Z:84:ARG:HG3	1.85	0.57
1:A:542:ALA:HB3	1:A:639:ASP:HB2	2.01	0.56
1:A:771:ILE:HA	1:A:774:ARG:HH11	2.12	0.56
1:B:332:LEU:CD2	1:B:358:LEU:HD11	2.50	0.56
1:B:759:LEU:HD11	1:C:764:LYS:HB3	2.18	0.56
1:C:199:ARG:HH21	1:C:258:ALA:HB3	1.92	0.56
1:C:505:PRO:HD2	1:C:507:ARG:HH12	2.75	0.56
1:C:687:ARG:HG2	1:C:691:GLN:HE21	1.72	0.56
1:C:697:SER:HB3	1:D:706:LEU:HB2	2.04	0.56
1:D:276:LEU:N	1:D:280:HIS:HB2	2.20	0.56
1:G:43:VAL:HG12	1:G:45:PHE:O	2.28	0.56
1:I:485:GLU:HG2	1:I:486:LEU:N	2.27	0.56
1:J:128:ASP:HB2	1:J:155:LYS:HB3	2.63	0.56
1:K:123:LEU:HG	1:K:143:TRP:HB2	1.86	0.56
1:K:229:LEU:HD23	1:K:266:GLU:HA	1.95	0.56
1:K:328:GLU:OE1	1:K:328:GLU:CA	3.84	0.56
1:L:18:VAL:HG21	1:L:33:LYS:HE3	3.20	0.56
1:L:3:THR:HG22	1:L:50:MET:HE1	1.87	0.56
1:L:387:GLY:HA3	1:L:402:ILE:HG22	1.92	0.56
1:L:72:SER:HB3	1:L:84:ARG:HH21	2.70	0.56
1:M:121:LEU:HB2	1:M:145:PHE:HB3	1.86	0.56
1:P:337:LEU:HD23	1:P:337:LEU:N	2.20	0.56
1:P:382:LEU:HB2	1:P:404:SER:O	2.05	0.56
1:Q:474:ARG:CG	1:Q:492:GLU:HB2	2.34	0.56
1:R:755:THR:HG21	1:S:761:ARG:HG2	1.87	0.56
1:U:368:SER:HB3	1:U:371:VAL:HG23	1.86	0.56
1:V:337:LEU:HD22	1:V:357:TRP:CZ3	2.39	0.56
1:W:338:GLN:NE2	1:X:279:ARG:HD3	2.20	0.56
1:W:18:VAL:CG1	1:W:48:VAL:HG22	2.26	0.56
1:W:597:ARG:HG3	1:W:600:ARG:NH2	2.20	0.56
1:X:182:CYS:SG	1:X:208:VAL:HG23	2.45	0.56
1:X:46:ALA:N	1:X:47:PRO:HD3	2.20	0.56
1:X:496:THR:CG2	1:X:496:THR:O	2.53	0.56
1:Y:387:GLY:HA3	1:Y:402:ILE:HG22	1.87	0.56
1:Z:544:ASN:HB2	1:Z:637:SER:OG	2.05	0.56
1:Y:755:THR:HG21	1:Z:761:ARG:HG2	1.86	0.56
1:A:182:CYS:HB2	1:A:208:VAL:HB	2.22	0.56
1:A:759:LEU:HD22	1:B:768:MET:HG3	1.87	0.56
1:B:320:ILE:O	1:B:320:ILE:HD12	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:83:LEU:H	1:B:83:LEU:HD23	1.70	0.56
1:C:363:LEU:HD13	1:C:364:GLU:H	1.70	0.56
1:D:152:ILE:N	1:D:152:ILE:CD1	3.02	0.56
1:D:221:LEU:CD2	1:D:256:THR:HB	2.31	0.56
1:D:452:ARG:NH1	1:D:452:ARG:HG3	2.19	0.56
1:D:77:ILE:HG12	1:D:80:GLN:C	2.23	0.56
1:D:802:LEU:HD12	1:D:806:THR:CG2	2.34	0.56
1:D:90:ILE:H	1:D:90:ILE:HD13	1.70	0.56
1:E:564:VAL:HG22	1:E:631:ASN:ND2	2.29	0.56
1:F:180:LYS:C	1:F:182:CYS:H	2.94	0.56
1:G:221:LEU:HD22	1:G:256:THR:CG2	2.35	0.56
1:G:261:PRO:HD2	1:G:264:TYR:HB2	1.87	0.56
1:H:15:TYR:CE2	1:H:17:HIS:HB3	2.39	0.56
1:H:236:ARG:NH1	1:H:236:ARG:HB3	2.29	0.56
1:H:60:ILE:CG1	1:H:93:ALA:HA	3.04	0.56
1:I:123:LEU:HD11	1:I:143:TRP:CD1	2.58	0.56
1:I:419:LEU:HD12	1:I:494:GLN:HE21	1.70	0.56
1:J:734:ARG:HH21	1:J:735:ILE:CD1	2.18	0.56
1:I:766:ARG:HG2	1:J:772:TYR:CD1	2.40	0.56
1:K:221:LEU:HD22	1:K:256:THR:CG2	2.33	0.56
1:L:332:LEU:HD11	1:L:379:ALA:HB2	1.86	0.56
1:L:687:ARG:HG2	1:L:691:GLN:HE21	1.70	0.56
1:M:122:HIS:O	1:M:159:VAL:N	2.47	0.56
1:M:299:LYS:NZ	1:M:317:GLU:OE2	2.38	0.56
1:M:65:VAL:HA	1:M:110:THR:HA	2.13	0.56
1:N:84:ARG:HH22	1:N:101:PRO:HD2	1.69	0.56
1:P:130:GLU:HA	1:P:137:VAL:HG13	1.87	0.56
1:O:697:SER:HB3	1:P:706:LEU:HB2	1.87	0.56
1:Q:152:ILE:HD11	1:Q:156:GLU:OE2	2.06	0.56
1:R:526:VAL:HG22	1:R:540:GLN:HG2	1.87	0.56
1:R:51:VAL:O	1:R:53:VAL:HG23	2.05	0.56
1:S:564:VAL:CG2	1:S:631:ASN:ND2	2.68	0.56
1:Y:268:LEU:HD13	1:Y:269:GLY:N	2.17	0.56
1:Z:115:VAL:HA	1:Z:147:GLY:O	2.05	0.56
1:B:595:SER:C	1:B:599:ILE:HD13	2.23	0.56
1:A:654:LEU:HD13	1:B:662:ILE:HD13	1.87	0.56
1:C:129:PHE:O	1:C:130:GLU:HG2	4.53	0.56
1:E:340:LEU:HG	1:E:353:ALA:HB2	2.03	0.56
1:E:523:PHE:CD1	1:E:568:VAL:HG12	2.53	0.56
1:F:697:SER:HB3	1:G:706:LEU:HB2	1.87	0.56
1:G:337:LEU:HD22	1:G:357:TRP:HZ3	1.76	0.56
1:G:755:THR:HG21	1:H:761:ARG:HG2	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:605:GLY:O	1:H:623:ARG:HB2	2.05	0.56
1:J:100:TYR:HB3	1:J:101:PRO:CD	2.46	0.56
1:J:796:LYS:O	1:J:799:THR:HG22	2.04	0.56
1:K:31:GLY:H	1:K:84:ARG:HH12	1.53	0.56
1:K:587:THR:HG23	1:K:590:ASP:CB	2.34	0.56
1:K:68:ASP:CB	1:K:90:ILE:HG22	2.34	0.56
1:L:452:ARG:HH22	1:L:458:VAL:HG22	1.71	0.56
1:L:549:LEU:HD12	1:L:552:ARG:HA	2.04	0.56
1:M:529:ILE:HD12	1:M:537:LEU:HB2	4.30	0.56
1:M:73:VAL:N	1:M:84:ARG:HB2	2.20	0.56
1:O:67:ARG:HH21	1:O:107:LYS:HA	1.70	0.56
1:Q:14:HIS:HB3	1:Q:56:ARG:CB	2.35	0.56
1:R:36:ILE:HG21	1:R:99:LEU:HD13	1.87	0.56
1:S:220:ILE:CD1	1:S:251:VAL:HG13	2.35	0.56
1:V:176:LEU:HD13	1:V:209:PHE:CD1	2.36	0.56
1:W:4:GLU:OE2	1:W:6:ALA:HB2	2.04	0.56
1:A:36:ILE:HG21	1:A:99:LEU:H	1.82	0.56
1:A:459:SER:CB	1:A:488:THR:HG22	2.34	0.56
1:A:765:VAL:HG22	1:Z:759:LEU:HD21	152.70	0.56
1:B:113:GLN:O	1:B:114:VAL:HG13	2.14	0.56
1:D:284:ILE:HD13	1:D:284:ILE:N	2.26	0.56
1:D:68:ASP:O	1:D:106:GLU:HB2	2.47	0.56
1:E:10:ILE:HG22	1:E:12:PRO:HD2	1.87	0.56
1:F:215:LEU:HB3	1:F:259:HIS:NE2	2.20	0.56
1:F:354:GLY:C	1:G:328:GLU:HG3	2.25	0.56
1:H:159:VAL:HG12	1:H:160:VAL:HG22	1.86	0.56
1:H:564:VAL:CG2	1:H:631:ASN:ND2	2.97	0.56
1:J:183:PHE:CA	1:J:190:ARG:HD3	2.33	0.56
1:K:564:VAL:HG21	1:K:631:ASN:ND2	2.20	0.56
1:K:7:ILE:N	1:K:7:ILE:HD12	4.25	0.56
1:K:60:ILE:HG12	1:K:92:LEU:O	2.24	0.56
1:M:14:HIS:CB	1:M:56:ARG:CB	2.79	0.56
1:M:320:ILE:N	1:M:320:ILE:HD13	2.21	0.56
1:N:15:TYR:CE2	1:N:17:HIS:HB3	2.41	0.56
1:N:337:LEU:CD2	1:N:337:LEU:N	2.68	0.56
1:O:125:ALA:HB1	1:O:128:ASP:HB3	1.85	0.56
1:P:196:TRP:HA	1:P:196:TRP:CE3	2.40	0.56
1:P:36:ILE:O	1:P:37:ARG:HG3	2.06	0.56
1:R:252:THR:H	1:R:254:GLN:HE22	1.53	0.56
1:R:363:LEU:HD13	1:R:364:GLU:H	1.70	0.56
1:T:182:CYS:O	1:T:190:ARG:HB2	2.05	0.56
1:V:205:LEU:HD22	1:V:211:GLU:HB2	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:43:VAL:HG12	1:W:45:PHE:O	2.06	0.56
1:X:43:VAL:HG12	1:X:45:PHE:O	2.05	0.56
1:A:122:HIS:CG	1:A:159:VAL:HB	2.52	0.56
1:B:115:VAL:HB	1:B:148:PRO:O	2.05	0.56
1:B:227:LEU:HB2	1:B:251:VAL:HG12	1.88	0.56
1:B:330:GLN:OE1	1:B:330:GLN:HA	2.22	0.56
1:C:382:LEU:N	1:C:405:THR:HG22	2.20	0.56
1:D:124:LYS:HG2	1:D:157:VAL:O	2.06	0.56
1:D:327:SER:HB2	1:D:331:GLY:HA2	1.82	0.56
1:D:330:GLN:O	1:D:378:GLN:NE2	2.38	0.56
1:E:70:GLN:HB3	1:E:104:VAL:O	2.06	0.56
1:G:109:ILE:HD11	1:G:153:PRO:HB2	1.87	0.56
1:G:14:HIS:CB	1:G:56:ARG:CB	2.93	0.56
1:G:224:LYS:HA	1:G:272:PRO:HG3	1.87	0.56
1:G:377:ARG:NH1	1:G:408:LEU:O	2.38	0.56
1:H:65:VAL:HG12	1:H:110:THR:HG22	1.87	0.56
1:H:171:ASN:O	1:H:216:VAL:HA	2.16	0.56
1:G:573:LYS:HE3	1:H:522:PHE:CZ	2.40	0.56
1:I:151:TYR:HD2	1:I:152:ILE:HD13	2.73	0.56
1:I:8:ILE:HA	1:I:40:ASN:HD22	1.93	0.56
1:I:418:GLU:OE2	1:I:452:ARG:NH1	2.94	0.56
1:I:452:ARG:NH1	1:I:452:ARG:HG3	2.21	0.56
1:L:327:SER:H	1:L:331:GLY:HA3	2.65	0.56
1:O:199:ARG:NH2	1:O:258:ALA:HB3	2.21	0.56
1:P:180:LYS:O	1:P:182:CYS:N	2.38	0.56
1:P:220:ILE:C	1:P:222:THR:H	2.08	0.56
1:Q:234:ASN:N	1:Q:234:ASN:HD22	2.01	0.56
1:S:469:GLN:HB3	1:S:496:THR:CG2	2.31	0.56
1:S:65:VAL:HA	1:S:110:THR:HA	1.87	0.56
1:T:419:LEU:HD12	1:T:494:GLN:HE21	1.69	0.56
1:U:481:VAL:HG11	1:U:487:VAL:HG11	1.85	0.56
1:V:380:ILE:HD12	1:V:406:TYR:O	2.05	0.56
1:X:109:ILE:CD1	1:X:153:PRO:HG2	2.34	0.56
1:X:54:PRO:CB	1:X:55:PRO:HD3	2.31	0.56
1:Y:256:THR:HG23	1:Y:256:THR:O	2.05	0.56
1:Z:339:PRO:HD2	1:Z:370:LYS:HB3	1.88	0.56
1:Z:36:ILE:HG21	1:Z:99:LEU:HD13	1.86	0.56
1:A:121:LEU:HB2	1:A:145:PHE:HB3	1.93	0.56
1:A:221:LEU:HD22	1:A:256:THR:HG21	2.30	0.56
1:A:501:SER:HB3	1:A:508:PRO:HA	1.88	0.56
1:A:517:LEU:O	1:A:545:TRP:HH2	2.37	0.56
1:A:640:VAL:O	1:M:580:ARG:HD2	211.13	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:807:ILE:HD13	1:B:806:THR:HG21	1.86	0.56
1:C:227:LEU:HB2	1:C:251:VAL:HG13	1.87	0.56
1:C:276:LEU:O	1:C:277:GLY:C	2.57	0.56
1:C:485:GLU:HG2	1:C:486:LEU:N	2.20	0.56
1:D:5:GLU:OE1	1:D:43:VAL:HG11	2.32	0.56
1:E:175:ARG:HG3	1:E:215:LEU:HD23	2.16	0.56
1:E:183:PHE:HE2	1:E:188:LYS:O	1.87	0.56
1:E:171:ASN:O	1:E:216:VAL:HG12	2.87	0.56
1:F:192:THR:HG23	1:G:202:GLY:HA3	2.07	0.56
1:F:327:SER:CA	1:F:331:GLY:HA3	2.35	0.56
1:G:14:HIS:HD1	1:G:36:ILE:CG2	2.18	0.56
1:G:221:LEU:HA	1:G:253:VAL:HG13	2.03	0.56
1:G:387:GLY:HA3	1:G:402:ILE:HG22	1.94	0.56
1:G:40:ASN:HB3	1:G:42:ARG:HH11	1.70	0.56
1:H:100:TYR:HB3	1:H:101:PRO:CD	2.39	0.56
1:H:165:ALA:HB3	1:H:174:LEU:HD11	1.97	0.56
1:H:54:PRO:CB	1:H:55:PRO:HD3	2.34	0.56
1:H:654:LEU:HD13	1:I:662:ILE:HD13	1.88	0.56
1:H:658:VAL:O	1:H:662:ILE:HG23	2.46	0.56
1:I:601:MET:HG3	1:I:622:ALA:HB2	1.88	0.56
1:H:745:LYS:HE2	1:I:753:ILE:HD12	2.74	0.56
1:J:283:VAL:HG22	1:J:301:VAL:HG12	1.87	0.56
1:K:152:ILE:HD11	1:K:156:GLU:OE2	2.05	0.56
1:K:284:ILE:HD12	1:K:287:PRO:HB3	5.12	0.56
1:K:291:ASP:C	1:K:293:LYS:H	2.09	0.56
1:K:65:VAL:HG12	1:K:110:THR:HG22	2.20	0.56
1:K:30:VAL:HG22	1:K:74:LEU:HD11	2.21	0.56
1:K:398:VAL:N	1:L:384:GLN:OE1	2.36	0.56
1:L:564:VAL:HG21	1:L:631:ASN:HD22	1.68	0.56
1:M:176:LEU:HD23	1:M:211:GLU:HA	1.86	0.56
1:M:418:GLU:HG2	1:M:423:VAL:HG22	1.88	0.56
1:O:252:THR:O	1:O:254:GLN:N	2.38	0.56
1:O:338:GLN:CB	1:O:339:PRO:CD	2.83	0.56
1:P:239:ARG:NH2	1:P:257:GLU:OE2	2.39	0.56
1:P:251:VAL:HA	1:P:254:GLN:HE22	1.70	0.56
1:P:522:PHE:CD2	1:P:522:PHE:C	2.79	0.56
1:Q:462:VAL:HG22	1:Q:468:VAL:HG23	1.88	0.56
1:Q:72:SER:HA	1:Q:84:ARG:HG3	1.87	0.56
1:R:337:LEU:HD11	1:R:351:HIS:CB	2.34	0.56
1:U:174:LEU:HB2	1:U:198:VAL:HB	1.86	0.56
1:U:19:LEU:HA	1:U:32:PRO:CB	2.36	0.56
1:U:527:ILE:CD1	1:U:527:ILE:H	2.13	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:396:GLY:CA	1:V:405:THR:HG23	2.36	0.56
1:W:67:ARG:HH21	1:W:107:LYS:HA	1.70	0.56
1:X:332:LEU:HG	1:X:360:ARG:HB2	1.88	0.56
1:X:500:LEU:HA	1:X:566:ASP:OD1	2.05	0.56
1:A:182:CYS:O	1:A:190:ARG:HB2	2.09	0.56
1:B:18:VAL:CG1	1:B:48:VAL:HG22	2.29	0.56
1:B:30:VAL:HG22	1:B:74:LEU:HG	1.99	0.56
1:C:36:ILE:O	1:C:36:ILE:HG13	4.20	0.56
1:C:522:PHE:C	1:C:522:PHE:CD2	2.78	0.56
1:D:571:ALA:O	1:D:575:ILE:HG12	3.47	0.56
1:D:719:THR:HG22	1:E:728:SER:HA	1.88	0.56
1:D:22:ASN:ND2	1:E:39:ASP:HB3	2.31	0.56
1:G:123:LEU:HD11	1:G:143:TRP:HB2	1.88	0.56
1:G:165:ALA:HB1	1:G:174:LEU:HD11	2.01	0.56
1:G:171:ASN:O	1:G:216:VAL:HA	2.21	0.56
1:G:63:ASN:N	1:G:64:PRO:HD2	2.21	0.56
1:H:18:VAL:CG1	1:H:48:VAL:HG22	2.36	0.56
1:I:122:HIS:CG	1:I:159:VAL:HB	2.41	0.56
1:I:311:GLN:N	1:I:314:GLU:HG3	2.37	0.56
1:I:415:TRP:CZ3	1:I:417:LYS:HB3	2.41	0.56
1:I:568:VAL:HG23	1:I:569:GLY:N	2.20	0.56
1:K:121:LEU:O	1:K:144:LEU:HA	2.06	0.56
1:K:501:SER:CB	1:K:507:ARG:O	2.96	0.56
1:K:70:GLN:CB	1:K:104:VAL:HG12	2.35	0.56
1:K:744:ALA:HA	1:K:747:LYS:HB2	2.19	0.56
1:L:623:ARG:CG	1:L:624:ASP:H	2.48	0.56
1:M:155:LYS:HB2	1:M:155:LYS:HZ2	1.92	0.56
1:M:395:THR:HG21	1:M:397:LYS:HE2	2.32	0.56
1:M:606:PHE:HB2	1:M:622:ALA:HA	2.40	0.56
1:N:649:ARG:NH2	1:O:655:GLN:HG2	2.21	0.56
1:O:109:ILE:HD12	1:O:153:PRO:HG2	1.87	0.56
1:O:697:SER:CA	1:P:706:LEU:HD23	2.36	0.56
1:P:226:ALA:O	1:P:269:GLY:HA2	2.05	0.56
1:P:623:ARG:HG3	1:P:624:ASP:H	1.69	0.56
1:Q:224:LYS:O	1:Q:272:PRO:HD3	2.06	0.56
1:Q:5:GLU:OE1	1:Q:43:VAL:HG11	2.06	0.56
1:S:46:ALA:N	1:S:47:PRO:HD3	2.19	0.56
1:S:67:ARG:HG2	1:S:108:ASP:HA	1.88	0.56
1:T:36:ILE:HG21	1:T:99:LEU:CD1	2.36	0.56
1:U:123:LEU:HD21	1:U:143:TRP:HB2	1.87	0.56
1:U:399:ARG:HG2	1:U:399:ARG:HH11	1.70	0.56
1:V:115:VAL:O	1:V:118:ASN:HB3	2.04	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:239:ARG:NH2	1:W:257:GLU:HG2	2.20	0.56
1:W:415:TRP:CH2	1:W:417:LYS:HB3	2.41	0.56
1:Y:84:ARG:NH2	1:Y:101:PRO:HD2	2.20	0.56
1:Z:340:LEU:HD23	1:Z:352:GLN:HA	1.86	0.56
1:A:338:GLN:HB2	1:A:339:PRO:HD3	1.88	0.56
1:A:36:ILE:O	1:A:37:ARG:HG3	2.04	0.56
1:B:67:ARG:NE	1:B:108:ASP:HB3	2.63	0.56
1:B:2:ALA:HB3	1:B:46:ALA:O	2.14	0.56
1:B:587:THR:HG23	1:B:590:ASP:CB	2.44	0.56
1:C:155:LYS:HZ2	1:C:155:LYS:HB2	1.95	0.56
1:C:227:LEU:CB	1:C:251:VAL:HG12	2.35	0.56
1:C:220:ILE:CD1	1:C:251:VAL:HG13	4.23	0.56
1:C:729:ARG:HB2	1:C:729:ARG:CZ	2.36	0.56
1:E:180:LYS:C	1:E:182:CYS:N	2.73	0.56
1:E:283:VAL:HG22	1:E:301:VAL:HG12	1.87	0.56
1:E:543:TYR:CE2	1:E:575:ILE:HG21	2.42	0.56
1:E:587:THR:HG23	1:E:590:ASP:CB	2.36	0.56
1:F:276:LEU:HD13	1:F:278:PRO:HD2	2.23	0.56
1:F:286:ASP:N	1:F:287:PRO:HD3	2.21	0.56
1:F:2:ALA:HB3	1:F:46:ALA:O	2.06	0.56
1:F:402:ILE:O	1:F:402:ILE:HD12	4.35	0.56
1:F:505:PRO:O	1:F:506:LYS:HB2	4.54	0.56
1:H:235:PHE:CZ	1:H:264:TYR:CE1	3.11	0.56
1:H:77:ILE:HG13	1:H:80:GLN:N	2.15	0.56
1:J:124:LYS:HG2	1:J:157:VAL:O	2.24	0.56
1:J:217:ASP:HB2	1:J:258:ALA:HA	1.88	0.56
1:J:481:VAL:HG11	1:J:487:VAL:CG1	2.52	0.56
1:K:3:THR:HG22	1:K:50:MET:CE	2.57	0.56
1:K:760:GLU:OE1	1:K:760:GLU:HA	2.05	0.56
1:K:799:THR:HG21	1:L:801:ALA:HB1	2.09	0.56
1:M:408:LEU:H	1:M:408:LEU:HD12	1.71	0.56
1:M:8:ILE:HA	1:M:40:ASN:HD22	1.74	0.56
1:N:115:VAL:N	1:N:118:ASN:HD22	2.04	0.56
1:S:649:ARG:HH21	1:T:655:GLN:HG2	1.71	0.56
1:T:310:LEU:H	1:T:310:LEU:HD12	1.70	0.56
1:T:564:VAL:HG21	1:T:631:ASN:ND2	2.21	0.56
1:T:354:GLY:C	1:U:328:GLU:HG3	2.25	0.56
1:U:517:LEU:HD12	1:U:517:LEU:H	1.70	0.56
1:W:796:LYS:O	1:W:799:THR:HG22	2.06	0.56
1:Z:417:LYS:O	1:Z:418:GLU:HB2	2.04	0.56
1:A:389:TYR:CZ	1:A:457:VAL:HA	2.41	0.56
1:C:180:LYS:C	1:C:182:CYS:H	2.98	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:24:ASN:ND2	1:C:30:VAL:HB	2.29	0.56
1:C:533:ASP:OD1	1:C:587:THR:HA	2.11	0.56
1:C:623:ARG:CG	1:C:624:ASP:H	2.27	0.56
1:D:2:ALA:HB3	1:D:46:ALA:O	2.06	0.56
1:D:551:ASN:HB3	1:D:554:ASP:HB3	2.04	0.56
1:E:327:SER:CB	1:E:331:GLY:HA3	2.73	0.56
1:E:337:LEU:HD22	1:E:357:TRP:CZ3	2.41	0.56
1:E:398:VAL:HB	1:F:384:GLN:HE22	1.70	0.56
1:E:799:THR:HG21	1:F:801:ALA:HB1	2.03	0.56
1:F:36:ILE:HD12	1:F:98:PRO:HB3	1.88	0.56
1:G:252:THR:O	1:G:254:GLN:N	2.59	0.56
1:G:296:LEU:N	1:G:296:LEU:HD22	2.62	0.56
1:G:591:PHE:O	1:G:595:SER:N	2.50	0.56
1:H:228:HIS:HB3	1:H:267:VAL:HB	1.88	0.56
1:H:67:ARG:HG2	1:H:108:ASP:HB3	1.86	0.56
1:I:165:ALA:HB3	1:I:174:LEU:HD11	1.87	0.56
1:I:311:GLN:HB3	1:I:312:PRO:CD	2.34	0.56
1:I:327:SER:H	1:I:331:GLY:HA3	1.89	0.56
1:J:194:GLU:HG2	1:J:195:GLU:H	1.71	0.56
1:I:697:SER:HB3	1:J:706:LEU:HB2	1.89	0.56
1:K:490:ASP:CG	1:K:491:PRO:HD2	2.26	0.56
1:K:495:PHE:CB	1:K:514:LEU:HD11	2.31	0.56
1:L:221:LEU:HD13	1:L:256:THR:HB	1.87	0.56
1:L:235:PHE:CZ	1:L:264:TYR:CE1	2.94	0.56
1:L:481:VAL:HG13	1:L:481:VAL:O	2.05	0.56
1:L:663:GLU:O	1:L:666:THR:HG22	2.14	0.56
1:M:511:ARG:NH2	1:M:517:LEU:HD11	2.41	0.56
1:M:650:THR:O	1:M:654:LEU:HD13	2.68	0.56
1:N:382:LEU:HB2	1:N:404:SER:O	2.05	0.56
1:O:337:LEU:HD22	1:O:357:TRP:HZ3	1.67	0.56
1:O:60:ILE:HD13	1:O:93:ALA:HA	1.87	0.56
1:P:260:VAL:O	1:P:262:ASP:N	2.39	0.56
1:R:126:LEU:HD22	1:R:157:VAL:HG23	1.88	0.56
1:S:795:PHE:O	1:S:799:THR:HG22	2.05	0.56
1:S:90:ILE:HD12	1:S:90:ILE:O	2.05	0.56
1:T:46:ALA:N	1:T:47:PRO:HD3	2.21	0.56
1:T:481:VAL:HG11	1:T:487:VAL:CG1	2.29	0.56
1:U:236:ARG:HB3	1:U:236:ARG:NH1	2.21	0.56
1:U:408:LEU:HD21	1:U:414:LEU:HD12	1.88	0.56
1:U:527:ILE:CD1	1:U:541:LEU:HG	2.35	0.56
1:V:268:LEU:HD13	1:V:269:GLY:H	1.70	0.56
1:V:382:LEU:N	1:V:405:THR:HG22	2.20	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:70:GLN:HA	1:V:88:GLN:HG3	1.87	0.56
1:A:320:ILE:HD12	1:A:320:ILE:O	5.33	0.56
1:B:244:ARG:O	1:B:247:GLU:HB2	2.28	0.56
1:B:327:SER:CA	1:B:331:GLY:HA3	3.03	0.56
1:D:14:HIS:HB3	1:D:56:ARG:CB	2.45	0.56
1:D:236:ARG:NH1	1:D:236:ARG:HB3	2.33	0.56
1:D:471:TYR:HD1	1:D:478:ALA:HB2	2.30	0.56
1:E:114:VAL:HG12	1:E:118:ASN:HD21	1.99	0.56
1:E:273:ILE:HD13	1:E:310:LEU:HD21	1.87	0.56
1:E:24:ASN:ND2	1:E:30:VAL:HB	2.45	0.56
1:E:340:LEU:HD23	1:E:353:ALA:H	1.98	0.56
1:E:518:LEU:HA	1:E:547:PHE:HD1	1.88	0.56
1:F:204:TYR:CE2	1:F:206:PRO:HG3	2.41	0.56
1:F:296:LEU:HD22	1:F:296:LEU:N	2.58	0.56
1:H:144:LEU:HD12	1:H:144:LEU:H	2.51	0.56
1:H:697:SER:HB3	1:I:706:LEU:HB2	1.88	0.56
1:I:221:LEU:CD2	1:I:256:THR:CG2	3.14	0.56
1:I:382:LEU:N	1:I:405:THR:HG22	2.34	0.56
1:K:159:VAL:HG12	1:K:160:VAL:HG22	2.05	0.56
1:K:327:SER:N	1:K:331:GLY:HA3	2.58	0.56
1:K:363:LEU:HD13	1:K:364:GLU:H	1.69	0.56
1:K:495:PHE:CG	1:K:514:LEU:HD11	2.70	0.56
1:K:697:SER:HA	1:L:706:LEU:HD23	1.88	0.56
1:L:337:LEU:N	1:L:337:LEU:HD23	2.21	0.56
1:L:654:LEU:HD13	1:M:662:ILE:CD1	3.16	0.56
1:M:16:ILE:HA	1:M:34:THR:OG1	2.13	0.56
1:M:18:VAL:H	1:M:48:VAL:CG1	2.20	0.56
1:M:18:VAL:N	1:M:48:VAL:HG13	2.18	0.56
1:N:220:ILE:C	1:N:222:THR:N	2.59	0.56
1:N:545:TRP:HB2	1:N:633:LEU:HD21	1.88	0.56
1:N:802:LEU:HD12	1:N:806:THR:CG2	2.36	0.56
1:O:235:PHE:CZ	1:O:264:TYR:CE1	2.94	0.56
1:N:394:LYS:CG	1:O:329:GLN:HG3	2.23	0.56
1:Q:320:ILE:HD13	1:Q:320:ILE:N	2.21	0.56
1:P:745:LYS:HG3	1:Q:753:ILE:HD13	1.86	0.56
1:R:251:VAL:HG22	1:R:254:GLN:NE2	2.21	0.56
1:T:182:CYS:SG	1:T:208:VAL:HG21	2.46	0.56
1:T:176:LEU:HB2	1:T:196:TRP:HB2	1.88	0.56
1:T:273:ILE:HG23	1:T:310:LEU:HD11	1.87	0.56
1:V:326:LEU:HD21	1:V:333:LEU:HG	1.88	0.56
1:W:123:LEU:HD11	1:W:143:TRP:HD1	1.71	0.56
1:Y:18:VAL:N	1:Y:48:VAL:HG13	2.14	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:167:VAL:HG22	1:Z:201:VAL:HA	1.86	0.56
1:A:10:ILE:HD12	1:A:10:ILE:N	2.20	0.56
1:B:5:GLU:HG2	1:B:43:VAL:CG2	2.40	0.56
1:C:204:TYR:CE2	1:C:206:PRO:HG3	2.41	0.56
1:C:527:ILE:CD1	1:C:539:LEU:HG	2.26	0.56
1:D:235:PHE:CZ	1:D:264:TYR:CE1	3.28	0.56
1:H:113:GLN:OE1	1:H:149:GLY:HA2	2.37	0.56
1:H:662:ILE:O	1:H:666:THR:HB	2.16	0.56
1:I:152:ILE:CD1	1:I:152:ILE:H	2.73	0.56
1:I:326:LEU:HD13	1:I:360:ARG:HA	1.87	0.56
1:I:46:ALA:N	1:I:47:PRO:HD3	2.27	0.56
1:K:122:HIS:O	1:K:159:VAL:N	2.59	0.56
1:K:402:ILE:HD13	1:K:402:ILE:H	4.32	0.56
1:K:421:SER:O	1:K:423:VAL:N	2.49	0.56
1:L:184:ASP:HB3	1:L:187:GLY:O	2.05	0.56
1:M:180:LYS:O	1:M:182:CYS:N	2.39	0.56
1:M:234:ASN:ND2	1:M:245:THR:H	2.13	0.56
1:M:51:VAL:O	1:M:53:VAL:HG23	2.06	0.56
1:O:113:GLN:OE1	1:O:149:GLY:HA2	2.06	0.56
1:P:16:ILE:HA	1:P:34:THR:OG1	2.07	0.56
1:P:564:VAL:HG22	1:P:631:ASN:ND2	2.21	0.56
1:Q:14:HIS:CB	1:Q:56:ARG:CB	2.83	0.56
1:P:573:LYS:HE3	1:Q:522:PHE:CZ	2.41	0.56
1:Q:692:LYS:HG2	1:Q:696:GLN:NE2	2.21	0.56
1:R:416:GLU:HB2	1:R:454:LYS:HB3	1.87	0.56
1:S:122:HIS:HB3	1:S:160:VAL:H	1.70	0.56
1:S:199:ARG:HH21	1:S:258:ALA:HB3	1.71	0.56
1:U:123:LEU:HD11	1:U:143:TRP:HD1	1.70	0.56
1:U:470:VAL:HB	1:U:479:ARG:HD2	1.88	0.56
1:U:71:SER:OG	1:U:84:ARG:O	2.22	0.56
1:U:398:VAL:HB	1:V:384:GLN:HE22	1.71	0.56
1:A:398:VAL:HG11	1:A:415:TRP:CD2	2.65	0.55
1:A:545:TRP:HB2	1:A:633:LEU:HD21	1.87	0.55
1:C:167:VAL:HG13	1:C:202:GLY:N	2.21	0.55
1:C:600:ARG:O	1:C:604:PHE:HD1	2.37	0.55
1:C:655:GLN:O	1:C:658:VAL:HG12	2.59	0.55
1:D:221:LEU:HD13	1:D:255:ASP:O	2.06	0.55
1:D:529:ILE:HD11	1:D:583:VAL:HG11	3.23	0.55
1:D:760:GLU:O	1:D:764:LYS:HG2	2.79	0.55
1:E:220:ILE:HD12	1:E:220:ILE:O	2.06	0.55
1:E:244:ARG:O	1:E:247:GLU:HB2	2.56	0.55
1:E:3:THR:CG2	1:E:50:MET:CE	3.37	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:123:LEU:HD11	1:F:143:TRP:HB2	1.88	0.55
1:F:5:GLU:O	1:F:41:GLU:O	2.24	0.55
1:G:10:ILE:N	1:G:10:ILE:HD12	2.17	0.55
1:G:14:HIS:NE2	1:G:16:ILE:CD1	2.69	0.55
1:G:2:ALA:HB3	1:G:46:ALA:O	2.12	0.55
1:G:273:ILE:HD11	1:G:308:PHE:HD2	1.85	0.55
1:G:459:SER:CB	1:G:488:THR:HG22	2.34	0.55
1:G:90:ILE:HD12	1:G:154:GLN:HB2	5.82	0.55
1:H:587:THR:HG23	1:H:590:ASP:HB3	1.88	0.55
1:I:221:LEU:HD21	1:I:256:THR:CG2	3.18	0.55
1:I:229:LEU:HD23	1:I:266:GLU:HA	1.88	0.55
1:J:42:ARG:CA	1:J:42:ARG:HE	2.19	0.55
1:K:338:GLN:HB3	1:K:339:PRO:CD	2.38	0.55
1:L:408:LEU:HD21	1:L:414:LEU:CD1	2.37	0.55
1:M:284:ILE:CD1	1:M:300:ARG:HB3	2.32	0.55
1:N:549:LEU:HD12	1:N:552:ARG:HA	1.88	0.55
1:P:18:VAL:H	1:P:48:VAL:CG1	2.18	0.55
1:P:338:GLN:CB	1:P:339:PRO:CD	2.83	0.55
1:Q:154:GLN:HG3	1:Q:155:LYS:HE3	1.86	0.55
1:R:43:VAL:HG12	1:R:45:PHE:O	2.06	0.55
1:R:60:ILE:CD1	1:R:60:ILE:H	2.18	0.55
1:R:60:ILE:HB	1:R:93:ALA:HA	1.88	0.55
1:R:29:GLU:O	1:R:84:ARG:NH1	2.36	0.55
1:S:100:TYR:HB3	1:S:101:PRO:HD2	1.88	0.55
1:S:251:VAL:HG23	1:S:254:GLN:HE21	1.71	0.55
1:S:175:ARG:HH21	1:S:263:VAL:HG13	1.71	0.55
1:S:664:ILE:O	1:S:668:SER:HB2	2.07	0.55
1:T:354:GLY:CA	1:U:328:GLU:HG3	2.36	0.55
1:V:527:ILE:CD1	1:V:541:LEU:HG	2.35	0.55
1:V:543:TYR:CE2	1:V:575:ILE:HG21	2.40	0.55
1:V:569:GLY:O	1:V:573:LYS:HB2	2.06	0.55
1:W:175:ARG:HH21	1:W:263:VAL:HG13	1.70	0.55
1:V:298:GLN:HG3	1:W:305:GLU:CD	2.27	0.55
1:Z:227:LEU:O	1:Z:250:LEU:HA	2.05	0.55
1:Z:338:GLN:CB	1:Z:339:PRO:CD	2.84	0.55
1:A:194:GLU:HG2	1:A:195:GLU:N	2.21	0.55
1:A:529:ILE:CD1	1:A:537:LEU:HB2	2.36	0.55
1:B:183:PHE:HA	1:B:190:ARG:HD3	1.87	0.55
1:C:10:ILE:N	1:C:10:ILE:HD12	2.22	0.55
1:E:184:ASP:HB3	1:E:187:GLY:O	2.54	0.55
1:E:472:ASP:HA	1:E:493:GLU:CB	2.36	0.55
1:D:697:SER:HA	1:E:706:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:60:ILE:HG13	1:E:92:LEU:O	3.77	0.55
1:F:474:ARG:NH1	1:G:384:GLN:HG2	2.66	0.55
1:G:500:LEU:HA	1:G:566:ASP:OD1	2.07	0.55
1:G:551:ASN:HB3	1:G:554:ASP:HB3	1.88	0.55
1:I:10:ILE:HD12	1:I:10:ILE:N	2.20	0.55
1:I:128:ASP:OD1	1:I:131:ASP:HB3	2.06	0.55
1:J:10:ILE:HD12	1:J:10:ILE:N	2.21	0.55
1:J:114:VAL:HG12	1:J:118:ASN:HD21	1.71	0.55
1:J:116:LEU:HB3	1:J:117:PRO:HD3	2.85	0.55
1:K:387:GLY:CA	1:K:402:ILE:HG22	2.36	0.55
1:K:796:LYS:HA	1:K:799:THR:HG22	1.88	0.55
1:L:61:VAL:HG13	1:L:65:VAL:HG23	2.62	0.55
1:M:130:GLU:H	1:M:137:VAL:HG22	1.71	0.55
1:M:260:VAL:O	1:M:262:ASP:N	2.67	0.55
1:M:734:ARG:HH21	1:M:735:ILE:CD1	2.19	0.55
1:O:340:LEU:HD23	1:O:352:GLN:HA	1.88	0.55
1:O:3:THR:H	1:O:50:MET:HE1	1.71	0.55
1:Q:154:GLN:CG	1:Q:155:LYS:HE3	2.36	0.55
1:Q:276:LEU:N	1:Q:280:HIS:HB2	2.21	0.55
1:Q:19:LEU:HA	1:Q:32:PRO:HB2	1.86	0.55
1:S:382:LEU:H	1:S:405:THR:HG22	1.69	0.55
1:S:5:GLU:HG2	1:S:43:VAL:CG2	2.37	0.55
1:T:100:TYR:HB3	1:T:101:PRO:CD	2.36	0.55
1:U:338:GLN:HB3	1:U:339:PRO:HD3	1.86	0.55
1:W:601:MET:CG	1:W:622:ALA:HB2	2.36	0.55
1:A:109:ILE:HD12	1:A:153:PRO:CB	2.71	0.55
1:A:243:HIS:NE2	1:A:249:TRP:CD2	2.96	0.55
1:B:14:HIS:O	1:B:53:VAL:HB	2.18	0.55
1:B:476:LYS:HE2	1:C:485:GLU:CG	2.69	0.55
1:E:335:LYS:HG2	1:E:373:VAL:HG13	2.57	0.55
1:E:418:GLU:HG2	1:E:423:VAL:HG22	1.88	0.55
1:E:7:ILE:O	1:E:41:GLU:HG3	2.58	0.55
1:F:18:VAL:H	1:F:48:VAL:CG1	2.16	0.55
1:G:566:ASP:OD2	1:G:569:GLY:HA3	2.05	0.55
1:H:242:LEU:H	1:H:242:LEU:HD23	1.71	0.55
1:H:389:TYR:CE1	1:H:457:VAL:HA	2.41	0.55
1:H:458:VAL:HG11	1:H:489:LEU:HD12	1.87	0.55
1:I:177:ARG:HH11	1:I:177:ARG:HB2	2.19	0.55
1:I:320:ILE:HD13	1:I:320:ILE:N	4.65	0.55
1:I:600:ARG:O	1:I:604:PHE:HD1	1.90	0.55
1:J:268:LEU:HD13	1:J:269:GLY:O	2.06	0.55
1:J:755:THR:HG21	1:K:761:ARG:HG2	2.11	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:206:PRO:HB2	1:L:209:PHE:CD2	2.61	0.55
1:M:275:THR:HG22	1:M:320:ILE:HG22	1.87	0.55
1:N:273:ILE:HD11	1:N:308:PHE:HD2	1.69	0.55
1:O:594:ASN:O	1:O:598:ILE:HD13	2.07	0.55
1:P:15:TYR:HA	1:P:53:VAL:HB	1.88	0.55
1:S:380:ILE:HD12	1:S:406:TYR:O	2.05	0.55
1:T:121:LEU:HD12	1:T:145:PHE:HD2	1.71	0.55
1:U:125:ALA:HB3	1:U:140:GLY:HA2	1.89	0.55
1:V:382:LEU:HB2	1:V:404:SER:O	2.06	0.55
1:W:226:ALA:HB3	1:W:270:VAL:HG13	1.86	0.55
1:W:46:ALA:N	1:W:47:PRO:HD3	2.21	0.55
1:Y:474:ARG:HG3	1:Y:492:GLU:HB2	1.88	0.55
1:Z:681:GLU:HG3	1:Z:685:ARG:HH21	1.71	0.55
1:A:90:ILE:N	1:A:90:ILE:HD13	4.62	0.55
1:B:123:LEU:HD11	1:B:143:TRP:HB2	2.51	0.55
1:B:311:GLN:N	1:B:314:GLU:HG3	2.38	0.55
1:B:599:ILE:CD1	1:B:599:ILE:H	2.19	0.55
1:B:61:VAL:HG13	1:B:65:VAL:HG23	1.89	0.55
1:D:64:PRO:HA	1:D:111:PRO:HD2	1.89	0.55
1:E:3:THR:H	1:E:50:MET:HE1	1.81	0.55
1:E:5:GLU:HA	1:E:7:ILE:HD11	3.46	0.55
1:G:394:LYS:HG2	1:H:329:GLN:CG	2.47	0.55
1:G:452:ARG:HG3	1:G:452:ARG:HH11	1.86	0.55
1:H:10:ILE:N	1:H:10:ILE:HD12	2.22	0.55
1:I:144:LEU:HG	1:I:145:PHE:H	1.71	0.55
1:I:354:GLY:O	1:I:356:CYS:N	2.61	0.55
1:K:115:VAL:N	1:K:118:ASN:HD22	2.04	0.55
1:K:113:GLN:OE1	1:K:150:THR:N	2.40	0.55
1:K:155:LYS:HZ2	1:K:155:LYS:HB2	1.72	0.55
1:K:311:GLN:H	1:K:314:GLU:HG3	1.71	0.55
1:K:474:ARG:HG3	1:K:492:GLU:CB	2.35	0.55
1:K:537:LEU:HD23	1:K:645:PRO:HA	1.87	0.55
1:K:647:ASP:HB3	1:K:650:THR:OG1	2.07	0.55
1:L:10:ILE:CD1	1:L:10:ILE:H	2.19	0.55
1:M:65:VAL:CG1	1:M:110:THR:HG22	2.34	0.55
1:M:402:ILE:HD12	1:M:402:ILE:O	2.07	0.55
1:O:128:ASP:OD1	1:O:131:ASP:HB3	2.06	0.55
1:O:16:ILE:HA	1:O:34:THR:OG1	2.06	0.55
1:R:120:ALA:HB2	1:R:164:GLN:HE22	1.71	0.55
1:R:354:GLY:C	1:S:328:GLU:HG3	2.27	0.55
1:T:242:LEU:H	1:T:242:LEU:HD23	1.71	0.55
1:T:421:SER:O	1:T:423:VAL:N	2.39	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:73:VAL:N	1:T:84:ARG:HB2	2.20	0.55
1:U:734:ARG:HH21	1:U:735:ILE:HD13	1.70	0.55
1:V:175:ARG:NE	1:V:263:VAL:HG22	2.16	0.55
1:W:167:VAL:HG13	1:W:202:GLY:N	2.22	0.55
1:W:459:SER:CB	1:W:488:THR:HG22	2.35	0.55
1:X:152:ILE:HG12	1:X:154:GLN:H	1.71	0.55
1:Z:230:ARG:HB3	1:Z:230:ARG:HH11	1.72	0.55
1:A:20:ASP:HB2	1:A:49:ARG:HD3	1.89	0.55
1:A:339:PRO:HG3	1:B:278:PRO:HA	1.89	0.55
1:A:398:VAL:HG11	1:A:415:TRP:CE3	2.77	0.55
1:A:795:PHE:O	1:A:799:THR:HG22	2.10	0.55
1:B:115:VAL:O	1:B:118:ASN:HB3	2.06	0.55
1:B:119:THR:HG23	1:B:163:ILE:HG23	1.87	0.55
1:B:228:HIS:NE2	1:B:312:PRO:HB3	2.23	0.55
1:B:529:ILE:HG22	1:B:580:ARG:HB2	1.89	0.55
1:B:601:MET:CG	1:B:622:ALA:HB2	2.37	0.55
1:C:339:PRO:HG2	1:C:370:LYS:HE2	1.89	0.55
1:C:526:VAL:HG22	1:C:540:GLN:HG2	1.88	0.55
1:C:500:LEU:HA	1:C:566:ASP:OD1	2.22	0.55
1:C:90:ILE:H	1:C:90:ILE:HD13	1.71	0.55
1:D:116:LEU:CB	1:D:117:PRO:HD2	2.32	0.55
1:E:165:ALA:CB	1:E:174:LEU:HD11	2.36	0.55
1:E:196:TRP:HA	1:E:196:TRP:CE3	2.42	0.55
1:E:8:ILE:HA	1:E:40:ASN:HD22	1.72	0.55
1:E:399:ARG:HA	1:E:491:PRO:HG3	1.89	0.55
1:E:573:LYS:HE3	1:F:522:PHE:CZ	2.41	0.55
1:E:796:LYS:CA	1:E:799:THR:HG22	2.36	0.55
1:G:227:LEU:CB	1:G:251:VAL:HG12	2.37	0.55
1:H:330:GLN:OE1	1:H:360:ARG:HD3	2.94	0.55
1:H:398:VAL:HG11	1:H:415:TRP:CE3	2.40	0.55
1:H:530:GLU:OE1	1:I:592:HIS:HE1	1.89	0.55
1:J:199:ARG:NH2	1:J:258:ALA:HB3	2.21	0.55
1:J:363:LEU:HD13	1:J:364:GLU:H	2.06	0.55
1:M:90:ILE:HD12	1:M:154:GLN:HG2	4.93	0.55
1:M:220:ILE:C	1:M:222:THR:H	2.10	0.55
1:M:6:ALA:O	1:M:7:ILE:HD13	2.07	0.55
1:N:339:PRO:HD2	1:N:370:LYS:HB3	1.88	0.55
1:N:394:LYS:HG2	1:O:329:GLN:CG	2.24	0.55
1:Q:128:ASP:OD1	1:Q:131:ASP:HB3	2.06	0.55
1:Q:46:ALA:N	1:Q:47:PRO:HD3	2.22	0.55
1:Q:3:THR:HG22	1:Q:50:MET:HE2	1.87	0.55
1:Q:758:GLU:O	1:Q:762:VAL:HG23	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:506:LYS:HE2	1:S:524:THR:O	2.06	0.55
1:T:382:LEU:H	1:T:405:THR:CG2	2.17	0.55
1:U:174:LEU:CB	1:U:198:VAL:HB	2.37	0.55
1:U:382:LEU:N	1:U:405:THR:HG22	2.22	0.55
1:U:762:VAL:O	1:U:766:ARG:HB2	2.05	0.55
1:W:10:ILE:HG22	1:W:12:PRO:CD	2.37	0.55
1:W:279:ARG:O	1:W:323:VAL:N	2.28	0.55
1:W:336:ALA:HA	1:W:356:CYS:CB	2.37	0.55
1:W:575:ILE:N	1:W:575:ILE:CD1	2.70	0.55
1:W:778:GLU:HG3	1:W:779:LEU:N	2.21	0.55
1:W:799:THR:HG21	1:X:801:ALA:HB1	1.87	0.55
1:Y:337:LEU:HD22	1:Y:357:TRP:HZ3	1.71	0.55
1:Y:382:LEU:H	1:Y:405:THR:HG22	1.72	0.55
1:Z:812:VAL:HG12	1:Z:812:VAL:O	2.06	0.55
1:A:236:ARG:NH1	1:A:236:ARG:HB3	2.22	0.55
1:A:273:ILE:HG23	1:A:310:LEU:HD11	1.88	0.55
1:A:384:GLN:OE1	1:Z:398:VAL:N	284.27	0.55
1:B:185:ARG:HG3	1:B:206:PRO:CB	2.35	0.55
1:B:551:ASN:HB2	1:B:557:GLU:OE2	2.05	0.55
1:C:18:VAL:H	1:C:48:VAL:CG1	2.23	0.55
1:D:396:GLY:CA	1:E:405:THR:HG23	2.50	0.55
1:E:92:LEU:HB2	1:E:94:GLN:HG2	2.03	0.55
1:F:249:TRP:N	1:F:249:TRP:CD1	2.76	0.55
1:F:294:ASN:HD21	1:F:313:GLY:CA	2.90	0.55
1:F:89:GLU:C	1:F:90:ILE:HD13	3.30	0.55
1:G:286:ASP:N	1:G:287:PRO:HD3	2.22	0.55
1:G:382:LEU:HD13	1:G:387:GLY:HA2	1.88	0.55
1:G:398:VAL:HG11	1:G:415:TRP:CE3	2.54	0.55
1:J:15:TYR:HA	1:J:53:VAL:HB	2.38	0.55
1:I:573:LYS:HE3	1:J:522:PHE:CZ	2.41	0.55
1:J:533:ASP:CG	1:J:588:PHE:H	2.10	0.55
1:J:533:ASP:OD1	1:J:587:THR:HA	2.06	0.55
1:K:182:CYS:SG	1:K:208:VAL:HB	2.47	0.55
1:K:7:ILE:H	1:K:41:GLU:HG3	1.90	0.55
1:L:152:ILE:HD11	1:L:156:GLU:OE2	2.06	0.55
1:L:239:ARG:HH21	1:L:257:GLU:HG2	1.94	0.55
1:L:294:ASN:HD21	1:L:313:GLY:CA	2.19	0.55
1:N:115:VAL:HA	1:N:147:GLY:O	2.07	0.55
1:M:755:THR:HG21	1:N:761:ARG:HG2	1.88	0.55
1:P:340:LEU:HD23	1:P:352:GLN:HA	1.88	0.55
1:R:268:LEU:HD13	1:R:269:GLY:H	1.72	0.55
1:R:527:ILE:N	1:R:527:ILE:HD13	2.19	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:522:PHE:CD2	1:S:522:PHE:C	2.80	0.55
1:T:391:GLN:HB2	1:T:398:VAL:HG22	1.88	0.55
1:T:67:ARG:HH21	1:T:107:LYS:CA	2.18	0.55
1:X:18:VAL:H	1:X:48:VAL:CG1	2.16	0.55
1:Y:67:ARG:CZ	1:Y:108:ASP:HB3	2.36	0.55
1:Y:171:ASN:O	1:Y:216:VAL:HA	2.05	0.55
1:Z:327:SER:HB2	1:Z:331:GLY:N	2.22	0.55
1:Z:363:LEU:HD13	1:Z:364:GLU:H	1.71	0.55
1:A:294:ASN:HD21	1:A:313:GLY:CA	2.68	0.55
1:A:623:ARG:CG	1:A:624:ASP:H	2.19	0.55
1:B:243:HIS:NE2	1:B:249:TRP:CE2	2.93	0.55
1:B:251:VAL:HG23	1:B:254:GLN:NE2	2.22	0.55
1:B:599:ILE:HD12	1:B:599:ILE:H	1.72	0.55
1:C:221:LEU:HD12	1:C:253:VAL:HG13	2.95	0.55
1:C:328:GLU:HG2	1:C:329:GLN:H	4.43	0.55
1:C:354:GLY:O	1:C:356:CYS:N	2.40	0.55
1:D:227:LEU:HB2	1:D:251:VAL:HG12	1.88	0.55
1:D:804:PRO:O	1:D:807:ILE:HD11	2.07	0.55
1:E:259:HIS:HD1	1:E:266:GLU:HG2	2.27	0.55
1:E:302:VAL:HG21	1:E:308:PHE:CE2	2.41	0.55
1:E:490:ASP:CG	1:E:491:PRO:HD2	2.27	0.55
1:F:60:ILE:HD11	1:F:95:ASP:O	2.07	0.55
1:G:167:VAL:HG22	1:G:201:VAL:HA	5.13	0.55
1:G:67:ARG:HH21	1:G:107:LYS:CA	2.45	0.55
1:H:226:ALA:O	1:H:269:GLY:HA2	2.06	0.55
1:H:387:GLY:HA3	1:H:402:ILE:HG22	1.88	0.55
1:H:511:ARG:HH22	1:H:517:LEU:HD11	1.72	0.55
1:I:15:TYR:CE2	1:I:17:HIS:HB3	2.42	0.55
1:I:464:HIS:CD2	1:I:484:PRO:HB3	2.66	0.55
1:I:533:ASP:OD1	1:I:587:THR:HA	2.08	0.55
1:I:660:LEU:HD13	1:I:663:GLU:HG2	2.53	0.55
1:K:8:ILE:H	1:K:8:ILE:CD1	4.00	0.55
1:L:69:THR:HA	1:L:106:GLU:HB3	1.89	0.55
1:L:8:ILE:N	1:L:8:ILE:HD13	4.78	0.55
1:M:327:SER:HB2	1:M:331:GLY:HA2	1.85	0.55
1:M:540:GLN:HB2	1:M:642:SER:HB3	2.23	0.55
1:O:587:THR:HG23	1:O:590:ASP:CB	2.35	0.55
1:P:183:PHE:HA	1:P:190:ARG:CD	2.37	0.55
1:Q:116:LEU:HB3	1:Q:117:PRO:CD	2.26	0.55
1:Q:419:LEU:HD23	1:Q:421:SER:H	1.71	0.55
1:Q:468:VAL:HG13	1:Q:514:LEU:O	2.06	0.55
1:R:697:SER:HA	1:S:706:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:533:ASP:OD1	1:S:587:THR:HA	2.07	0.55
1:T:16:ILE:HA	1:T:34:THR:OG1	2.06	0.55
1:T:2:ALA:HB3	1:T:46:ALA:O	2.07	0.55
1:T:330:GLN:HG3	1:T:379:ALA:HB3	1.88	0.55
1:T:18:VAL:CG1	1:T:48:VAL:HG22	2.24	0.55
1:T:564:VAL:CG2	1:T:631:ASN:ND2	2.70	0.55
1:U:154:GLN:HG3	1:U:155:LYS:HG3	1.89	0.55
1:U:469:GLN:HG3	1:U:480:VAL:HG22	1.88	0.55
1:X:328:GLU:OE1	1:X:361:GLY:O	2.25	0.55
1:Y:579:VAL:CG2	1:Y:599:ILE:HG23	2.37	0.55
1:A:122:HIS:HB3	1:A:159:VAL:HB	1.88	0.55
1:A:500:LEU:HA	1:A:566:ASP:OD1	2.07	0.55
1:A:807:ILE:HD12	1:A:808:ARG:N	2.22	0.55
1:B:90:ILE:CG2	1:B:154:GLN:HB2	2.37	0.55
1:B:310:LEU:HB3	1:B:314:GLU:HB2	2.22	0.55
1:B:329:GLN:NE2	1:B:330:GLN:HG2	2.22	0.55
1:B:338:GLN:CB	1:B:339:PRO:CD	2.84	0.55
1:B:360:ARG:CG	1:B:361:GLY:N	2.95	0.55
1:B:698:GLU:OE2	1:B:698:GLU:HA	2.06	0.55
1:C:175:ARG:HA	1:C:196:TRP:O	2.07	0.55
1:C:46:ALA:N	1:C:47:PRO:HD3	2.22	0.55
1:E:221:LEU:HD12	1:E:253:VAL:HG13	1.88	0.55
1:E:389:TYR:CE1	1:E:457:VAL:HA	2.42	0.55
1:E:766:ARG:HD3	1:F:772:TYR:HB2	1.98	0.55
1:H:220:ILE:HD11	1:H:251:VAL:HG13	2.99	0.55
1:I:199:ARG:NH2	1:I:258:ALA:HB3	2.17	0.55
1:J:251:VAL:HG23	1:J:254:GLN:HE21	1.71	0.55
1:J:36:ILE:HG13	1:J:36:ILE:O	3.94	0.55
1:J:398:VAL:HG11	1:J:415:TRP:CD2	2.44	0.55
1:J:689:GLU:O	1:J:689:GLU:HG2	2.07	0.55
1:K:653:ALA:HA	1:K:656:ARG:NH2	2.52	0.55
1:L:109:ILE:HD11	1:L:153:PRO:CB	2.36	0.55
1:L:359:ILE:H	1:L:359:ILE:HD13	4.53	0.55
1:L:65:VAL:HA	1:L:110:THR:CA	2.35	0.55
1:M:221:LEU:HD12	1:M:253:VAL:HG13	1.87	0.55
1:M:294:ASN:HD21	1:M:313:GLY:CA	2.19	0.55
1:M:6:ALA:HA	1:M:41:GLU:O	2.06	0.55
1:N:377:ARG:NH1	1:N:408:LEU:O	2.40	0.55
1:R:123:LEU:CG	1:R:143:TRP:HB2	2.37	0.55
1:S:8:ILE:HA	1:S:40:ASN:HD22	1.71	0.55
1:S:771:ILE:HD13	1:S:774:ARG:HD2	1.89	0.55
1:T:3:THR:HG22	1:T:50:MET:HE1	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:398:VAL:HG12	1:V:491:PRO:HB3	1.89	0.55
1:V:660:LEU:HA	1:V:663:GLU:HB2	1.89	0.55
1:X:697:SER:HA	1:Y:706:LEU:HD23	1.89	0.55
1:Y:164:GLN:NE2	1:Y:204:TYR:HB2	2.22	0.55
1:Y:425:GLU:CD	1:Y:425:GLU:H	2.10	0.55
1:A:279:ARG:HD3	1:Z:338:GLN:NE2	300.75	0.55
1:B:252:THR:H	1:B:254:GLN:HE22	1.55	0.55
1:A:654:LEU:CD1	1:B:662:ILE:HD12	2.34	0.55
1:C:123:LEU:CG	1:C:143:TRP:HB2	2.37	0.55
1:C:174:LEU:CB	1:C:198:VAL:HB	2.28	0.55
1:C:803:GLY:CA	1:C:806:THR:HB	2.59	0.55
1:D:164:GLN:HB3	1:D:204:TYR:HA	1.93	0.55
1:E:251:VAL:HG23	1:E:254:GLN:NE2	2.21	0.55
1:F:167:VAL:HG13	1:F:202:GLY:H	1.72	0.55
1:G:36:ILE:O	1:G:37:ARG:HG3	2.21	0.55
1:H:70:GLN:HG3	1:H:70:GLN:O	2.06	0.55
1:I:536:ARG:HB2	1:I:646:VAL:HB	2.21	0.55
1:J:600:ARG:NH1	1:J:622:ALA:HB3	2.22	0.55
1:K:3:THR:H	1:K:50:MET:HE1	1.71	0.55
1:K:579:VAL:HG22	1:K:599:ILE:HG23	2.26	0.55
1:L:182:CYS:SG	1:L:208:VAL:HG21	2.47	0.55
1:L:284:ILE:N	1:L:284:ILE:HD13	2.22	0.55
1:N:176:LEU:HD23	1:N:211:GLU:HA	1.89	0.55
1:O:152:ILE:HD11	1:O:156:GLU:OE2	2.06	0.55
1:O:536:ARG:HB2	1:O:646:VAL:HB	1.87	0.55
1:P:36:ILE:HG21	1:P:99:LEU:HD13	1.87	0.55
1:Q:69:THR:HA	1:Q:106:GLU:CB	2.37	0.55
1:Q:542:ALA:HB3	1:Q:639:ASP:HB2	1.88	0.55
1:S:100:TYR:HB3	1:S:101:PRO:CD	2.37	0.55
1:S:273:ILE:HG23	1:S:310:LEU:HD11	1.88	0.55
1:S:529:ILE:HD13	1:S:583:VAL:CG1	2.37	0.55
1:S:601:MET:HG2	1:S:622:ALA:CB	2.36	0.55
1:S:660:LEU:HA	1:S:663:GLU:HB2	1.88	0.55
1:T:471:TYR:CD1	1:T:478:ALA:HB2	2.41	0.55
1:T:737:GLY:HA3	1:U:746:LEU:HD13	1.89	0.55
1:U:394:LYS:NZ	1:V:329:GLN:HB2	2.21	0.55
1:V:402:ILE:HD12	1:V:402:ILE:O	2.06	0.55
1:X:176:LEU:HA	1:X:210:GLU:O	2.07	0.55
1:X:511:ARG:NH2	1:X:517:LEU:HD11	2.15	0.55
1:Y:65:VAL:HG12	1:Y:110:THR:CG2	2.36	0.55
1:Y:9:ARG:NH1	1:Y:36:ILE:HA	2.15	0.55
1:Y:766:ARG:HD3	1:Z:772:TYR:HB2	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:389:TYR:CE1	1:A:457:VAL:HA	2.42	0.55
1:D:154:GLN:HG3	1:D:155:LYS:N	2.23	0.55
1:D:251:VAL:HG21	1:D:257:GLU:HG2	1.89	0.55
1:D:529:ILE:HD13	1:D:583:VAL:HG11	1.88	0.55
1:D:771:ILE:HA	1:D:774:ARG:NH1	2.32	0.55
1:D:781:VAL:HG21	1:E:786:GLN:OE1	2.07	0.55
1:E:262:ASP:HB3	1:E:264:TYR:CZ	2.42	0.55
1:F:176:LEU:CD1	1:F:209:PHE:CD1	2.84	0.55
1:F:220:ILE:C	1:F:222:THR:H	2.09	0.55
1:F:61:VAL:HG13	1:F:65:VAL:HG23	1.88	0.55
1:H:330:GLN:O	1:H:378:GLN:NE2	2.65	0.55
1:H:518:LEU:HA	1:H:547:PHE:HD1	1.72	0.55
1:I:3:THR:HG22	1:I:50:MET:HE2	1.88	0.55
1:J:14:HIS:NE2	1:J:16:ILE:CD1	2.90	0.55
1:J:9:ARG:CZ	1:J:15:TYR:HB3	2.56	0.55
1:K:122:HIS:HB3	1:K:160:VAL:H	1.71	0.55
1:L:282:CYS:SG	1:L:302:VAL:HG23	2.64	0.55
1:N:77:ILE:HG13	1:N:80:GLN:N	2.19	0.55
1:O:324:TYR:O	1:O:365:TYR:N	2.34	0.55
1:P:267:VAL:O	1:P:268:LEU:HB2	2.06	0.55
1:P:5:GLU:CG	1:P:43:VAL:HG21	2.36	0.55
1:Q:419:LEU:HG	1:Q:420:PRO:CD	2.22	0.55
1:Q:558:ALA:O	1:Q:561:LEU:HB2	2.07	0.55
1:R:387:GLY:HA3	1:R:402:ILE:HG22	1.88	0.55
1:S:251:VAL:CG2	1:S:254:GLN:HE21	2.20	0.55
1:U:337:LEU:CD1	1:U:371:VAL:HG22	2.37	0.55
1:V:116:LEU:CB	1:V:117:PRO:CD	2.82	0.55
1:V:30:VAL:HG22	1:V:74:LEU:HD11	1.89	0.55
1:W:152:ILE:CD1	1:W:152:ILE:N	2.70	0.55
1:X:36:ILE:HD11	1:X:58:TYR:HE1	1.72	0.55
1:Y:14:HIS:CB	1:Y:56:ARG:HB2	2.37	0.55
1:Z:399:ARG:HA	1:Z:491:PRO:HG3	1.87	0.55
1:A:121:LEU:HD12	1:A:145:PHE:HD2	1.71	0.54
1:A:165:ALA:HB3	1:A:174:LEU:HD11	2.05	0.54
1:A:623:ARG:HG2	1:A:624:ASP:H	1.72	0.54
1:C:109:ILE:HD11	1:C:153:PRO:HG2	1.88	0.54
1:D:250:LEU:HD22	1:D:312:PRO:HD3	1.89	0.54
1:E:29:GLU:O	1:E:84:ARG:NH1	2.40	0.54
1:F:17:HIS:CD2	1:F:18:VAL:HG22	2.53	0.54
1:F:205:LEU:HD22	1:F:211:GLU:HB2	1.88	0.54
1:G:328:GLU:OE1	1:G:361:GLY:O	2.63	0.54
1:G:517:LEU:O	1:G:545:TRP:CH2	2.60	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:234:ASN:N	1:H:234:ASN:HD22	2.12	0.54
1:H:623:ARG:HG3	1:H:624:ASP:H	1.73	0.54
1:I:151:TYR:HD2	1:I:152:ILE:CD1	3.43	0.54
1:K:249:TRP:N	1:K:249:TRP:CD1	2.83	0.54
1:K:529:ILE:HD13	1:K:583:VAL:CG1	2.36	0.54
1:A:11:PRO:HG3	1:M:32:PRO:HG2	303.00	0.54
1:M:330:GLN:CB	1:M:379:ALA:HB3	2.60	0.54
1:N:220:ILE:CD1	1:N:251:VAL:HG13	2.37	0.54
1:O:199:ARG:HH21	1:O:258:ALA:HB3	1.70	0.54
1:O:284:ILE:HD11	1:O:300:ARG:HB3	1.87	0.54
1:O:283:VAL:HG22	1:O:301:VAL:CG1	2.36	0.54
1:O:336:ALA:HA	1:O:356:CYS:CB	2.37	0.54
1:P:469:GLN:HB3	1:P:496:THR:HG21	1.88	0.54
1:Q:31:GLY:H	1:Q:84:ARG:HH12	1.54	0.54
1:Q:421:SER:O	1:Q:423:VAL:N	2.40	0.54
1:Q:54:PRO:HB2	1:Q:55:PRO:CD	2.31	0.54
1:Q:601:MET:CG	1:Q:622:ALA:HB2	2.37	0.54
1:S:132:LYS:CE	1:S:152:ILE:HD12	2.36	0.54
1:S:408:LEU:H	1:S:408:LEU:HD12	1.72	0.54
1:S:660:LEU:HD13	1:S:663:GLU:HG2	1.90	0.54
1:U:204:TYR:O	1:U:206:PRO:HD3	2.07	0.54
1:W:580:ARG:HH22	1:X:595:SER:CB	2.19	0.54
1:X:2:ALA:HB3	1:X:46:ALA:O	2.07	0.54
1:X:380:ILE:HD12	1:X:406:TYR:O	2.06	0.54
1:X:470:VAL:HB	1:X:479:ARG:HD2	1.89	0.54
1:X:523:PHE:CE1	1:X:568:VAL:HG12	2.42	0.54
1:Z:605:GLY:O	1:Z:623:ARG:HB2	2.07	0.54
1:A:310:LEU:HD12	1:A:310:LEU:H	1.72	0.54
1:A:398:VAL:N	1:B:384:GLN:OE1	2.52	0.54
1:B:522:PHE:CD2	1:B:522:PHE:C	2.81	0.54
1:C:273:ILE:HG13	1:C:308:PHE:HB3	1.96	0.54
1:C:627:VAL:HG22	1:C:634:VAL:HG22	3.16	0.54
1:C:8:ILE:HG22	1:C:40:ASN:HD21	1.82	0.54
1:D:70:GLN:CB	1:D:104:VAL:O	2.51	0.54
1:D:311:GLN:HB3	1:D:312:PRO:HD2	1.98	0.54
1:E:146:GLU:HA	1:E:146:GLU:OE1	2.27	0.54
1:E:175:ARG:HH21	1:E:263:VAL:HG13	1.77	0.54
1:E:417:LYS:O	1:E:418:GLU:HB2	2.09	0.54
1:E:481:VAL:HG11	1:E:487:VAL:HG11	1.88	0.54
1:E:511:ARG:HH22	1:E:517:LEU:HD11	2.09	0.54
1:F:85:HIS:NE2	1:F:102:GLY:HA3	2.23	0.54
1:F:165:ALA:CB	1:F:174:LEU:HD11	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:807:ILE:HD12	1:F:806:THR:HG21	3.90	0.54
1:H:36:ILE:O	1:H:37:ARG:HG3	2.21	0.54
1:I:220:ILE:O	1:I:253:VAL:HG22	2.06	0.54
1:I:335:LYS:HB3	1:I:372:GLU:O	2.64	0.54
1:I:481:VAL:HG11	1:I:487:VAL:HG11	1.89	0.54
1:I:481:VAL:HG11	1:I:487:VAL:HG13	2.09	0.54
1:J:318:ARG:O	1:J:321:GLN:HG2	2.08	0.54
1:J:560:LYS:HD2	1:J:630:GLN:O	2.07	0.54
1:K:10:ILE:N	1:K:10:ILE:HD12	2.20	0.54
1:K:144:LEU:H	1:K:144:LEU:HD12	1.71	0.54
1:K:185:ARG:HG3	1:K:206:PRO:HB3	1.89	0.54
1:K:408:LEU:HD21	1:K:414:LEU:CD1	2.71	0.54
1:K:5:GLU:HA	1:K:7:ILE:HD11	4.17	0.54
1:L:229:LEU:HD23	1:L:266:GLU:HA	1.89	0.54
1:M:252:THR:H	1:M:254:GLN:NE2	2.05	0.54
1:M:60:ILE:HG22	1:M:66:SER:HA	1.89	0.54
1:L:777:LEU:CD1	1:M:783:LYS:HB2	2.84	0.54
1:O:24:ASN:ND2	1:O:30:VAL:HB	2.19	0.54
1:P:115:VAL:HA	1:P:147:GLY:O	2.07	0.54
1:P:230:ARG:HB3	1:P:230:ARG:HH11	1.72	0.54
1:V:154:GLN:HG3	1:V:155:LYS:N	2.22	0.54
1:W:175:ARG:HB3	1:W:212:VAL:HB	1.90	0.54
1:Y:327:SER:HB2	1:Y:331:GLY:N	2.21	0.54
1:Z:267:VAL:O	1:Z:268:LEU:HB2	2.08	0.54
1:Z:336:ALA:HA	1:Z:356:CYS:CB	2.36	0.54
1:A:65:VAL:HG12	1:A:110:THR:HG22	1.90	0.54
1:C:387:GLY:HA3	1:C:402:ILE:HG22	1.88	0.54
1:D:341:GLU:HG2	1:D:370:LYS:HD3	2.02	0.54
1:D:380:ILE:HD12	1:D:406:TYR:O	2.07	0.54
1:D:77:ILE:CG1	1:D:80:GLN:CA	2.85	0.54
1:E:67:ARG:NH2	1:E:107:LYS:HA	2.33	0.54
1:E:13:TYR:O	1:E:36:ILE:HG12	2.66	0.54
1:F:180:LYS:C	1:F:182:CYS:N	2.90	0.54
1:F:377:ARG:NH1	1:F:408:LEU:O	2.40	0.54
1:F:693:ILE:HD13	1:F:696:GLN:NE2	6.32	0.54
1:G:90:ILE:CG2	1:G:154:GLN:HB2	2.38	0.54
1:G:20:ASP:HB2	1:G:49:ARG:HD3	2.01	0.54
1:H:144:LEU:HD22	1:H:204:TYR:CE2	2.42	0.54
1:H:234:ASN:ND2	1:H:245:THR:H	2.05	0.54
1:J:46:ALA:N	1:J:47:PRO:HD3	2.22	0.54
1:J:566:ASP:OD2	1:J:569:GLY:HA3	2.06	0.54
1:K:56:ARG:HD2	1:K:99:LEU:CD2	2.50	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:279:ARG:HG3	1:L:280:HIS:CD2	2.42	0.54
1:L:540:GLN:O	1:L:641:GLN:HG2	2.29	0.54
1:M:175:ARG:NE	1:M:263:VAL:HG22	2.32	0.54
1:O:419:LEU:HD23	1:O:421:SER:H	1.73	0.54
1:P:459:SER:CB	1:P:488:THR:HG22	2.31	0.54
1:Q:167:VAL:HG22	1:Q:201:VAL:HA	1.88	0.54
1:R:130:GLU:CB	1:R:136:LYS:HA	2.30	0.54
1:R:180:LYS:C	1:R:182:CYS:N	2.61	0.54
1:R:653:ALA:HB3	1:S:662:ILE:CD1	2.36	0.54
1:R:759:LEU:HD22	1:S:768:MET:HG3	1.88	0.54
1:T:517:LEU:O	1:T:545:TRP:CH2	2.61	0.54
1:S:799:THR:HG21	1:T:801:ALA:HB1	1.90	0.54
1:Y:109:ILE:HD12	1:Y:153:PRO:HB2	1.87	0.54
1:Y:175:ARG:HA	1:Y:196:TRP:O	2.07	0.54
1:Z:419:LEU:CD2	1:Z:422:GLY:H	2.20	0.54
1:A:126:LEU:HB2	1:A:157:VAL:HG23	2.37	0.54
1:A:73:VAL:H	1:A:84:ARG:CB	2.30	0.54
1:B:276:LEU:N	1:B:280:HIS:HB2	2.24	0.54
1:B:40:ASN:HB3	1:B:42:ARG:HH11	1.72	0.54
1:C:109:ILE:CD1	1:C:153:PRO:CB	2.84	0.54
1:C:30:VAL:HG13	1:C:74:LEU:HD11	1.89	0.54
1:E:119:THR:HG23	1:E:163:ILE:HG23	2.04	0.54
1:E:387:GLY:CA	1:E:402:ILE:HG22	2.45	0.54
1:E:462:VAL:HB	1:E:485:GLU:O	2.48	0.54
1:F:704:LYS:HD2	1:G:712:MET:HB3	1.95	0.54
1:G:90:ILE:HG23	1:G:154:GLN:HB2	1.90	0.54
1:G:564:VAL:CG2	1:G:631:ASN:ND2	2.93	0.54
1:H:654:LEU:CD1	1:I:662:ILE:CD1	3.02	0.54
1:I:5:GLU:CG	1:I:43:VAL:HG21	2.36	0.54
1:I:692:LYS:HG2	1:I:696:GLN:HE21	1.71	0.54
1:J:229:LEU:HD23	1:J:266:GLU:HA	1.89	0.54
1:J:18:VAL:N	1:J:48:VAL:HG13	2.18	0.54
1:L:119:THR:HG23	1:L:163:ILE:HG23	1.89	0.54
1:L:474:ARG:CG	1:L:492:GLU:HB2	2.37	0.54
1:M:109:ILE:CD1	1:M:153:PRO:HB2	2.38	0.54
1:M:230:ARG:HG2	1:M:248:GLU:HG2	1.90	0.54
1:M:252:THR:O	1:M:254:GLN:N	2.40	0.54
1:M:327:SER:H	1:M:331:GLY:HA3	1.80	0.54
1:M:327:SER:N	1:M:331:GLY:HA3	2.33	0.54
1:N:284:ILE:HD13	1:N:300:ARG:O	2.07	0.54
1:O:123:LEU:CG	1:O:143:TRP:HB2	2.37	0.54
1:P:653:ALA:HB3	1:Q:662:ILE:HD13	1.87	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:472:ASP:HA	1:Q:493:GLU:CB	2.37	0.54
1:R:802:LEU:HD12	1:R:806:THR:HG22	1.88	0.54
1:S:196:TRP:HA	1:S:196:TRP:HE3	1.70	0.54
1:T:36:ILE:O	1:T:36:ILE:HG13	2.07	0.54
1:U:122:HIS:HB3	1:U:160:VAL:H	1.71	0.54
1:V:194:GLU:HG2	1:V:195:GLU:H	1.72	0.54
1:X:29:GLU:O	1:X:84:ARG:HD3	2.07	0.54
1:Z:115:VAL:N	1:Z:118:ASN:HD22	1.93	0.54
1:A:384:GLN:HE22	1:Z:398:VAL:HB	280.53	0.54
1:A:1:MET:O	1:A:2:ALA:HB2	2.08	0.54
1:B:10:ILE:HD12	1:B:10:ILE:N	2.22	0.54
1:B:16:ILE:HB	1:B:51:VAL:HB	2.11	0.54
1:A:766:ARG:HD3	1:B:772:TYR:HB2	1.89	0.54
1:C:6:ALA:HB1	1:C:42:ARG:HH22	1.71	0.54
1:C:717:GLU:O	1:C:721:ASN:HB2	2.26	0.54
1:D:418:GLU:HG2	1:D:423:VAL:HG22	2.03	0.54
1:G:174:LEU:HG	1:G:214:ASP:OD1	2.40	0.54
1:H:131:ASP:CB	1:H:155:LYS:HD2	3.03	0.54
1:H:382:LEU:H	1:H:405:THR:HG22	1.73	0.54
1:H:523:PHE:CE1	1:H:568:VAL:HG12	2.48	0.54
1:H:796:LYS:HA	1:H:799:THR:HG22	1.90	0.54
1:J:100:TYR:HB3	1:J:101:PRO:HD2	2.09	0.54
1:K:234:ASN:ND2	1:K:234:ASN:N	2.55	0.54
1:L:294:ASN:HD21	1:L:313:GLY:HA3	1.72	0.54
1:L:573:LYS:HD2	1:M:542:ALA:CB	2.38	0.54
1:M:804:PRO:O	1:M:807:ILE:HD11	2.89	0.54
1:N:65:VAL:HA	1:N:110:THR:HG22	1.89	0.54
1:O:527:ILE:HD13	1:O:539:LEU:O	2.08	0.54
1:S:260:VAL:CB	1:S:263:VAL:HA	2.29	0.54
1:U:601:MET:HG2	1:U:622:ALA:HB2	1.89	0.54
1:V:523:PHE:CE1	1:V:568:VAL:HG12	2.43	0.54
1:X:251:VAL:CG2	1:X:254:GLN:NE2	2.70	0.54
1:X:239:ARG:HH21	1:X:257:GLU:HG2	1.72	0.54
1:Y:124:LYS:HG2	1:Y:157:VAL:O	2.07	0.54
1:Y:168:ILE:N	1:Y:168:ILE:HD12	2.21	0.54
1:Z:452:ARG:HH11	1:Z:452:ARG:HG3	1.72	0.54
1:Z:2:ALA:HB3	1:Z:46:ALA:O	2.08	0.54
1:A:205:LEU:HD22	1:A:211:GLU:HB2	1.89	0.54
1:A:239:ARG:HH21	1:A:257:GLU:CG	2.14	0.54
1:B:1:MET:O	1:B:2:ALA:HB2	2.10	0.54
1:B:297:GLY:O	1:C:276:LEU:HD22	2.08	0.54
1:B:46:ALA:N	1:B:47:PRO:HD3	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:165:ALA:O	1:C:203:ALA:O	2.26	0.54
1:C:19:LEU:HA	1:C:32:PRO:HB2	1.90	0.54
1:E:10:ILE:HD12	1:E:10:ILE:N	2.20	0.54
1:E:113:GLN:OE1	1:E:150:THR:N	3.06	0.54
1:E:191:VAL:HG12	1:E:194:GLU:HB2	1.88	0.54
1:F:182:CYS:SG	1:F:208:VAL:CB	2.96	0.54
1:F:501:SER:HB3	1:F:507:ARG:O	2.36	0.54
1:F:687:ARG:HG2	1:F:691:GLN:HE21	1.98	0.54
1:G:70:GLN:HB3	1:G:104:VAL:O	2.07	0.54
1:G:183:PHE:HA	1:G:190:ARG:HD3	1.88	0.54
1:G:332:LEU:HG	1:G:360:ARG:HD3	2.22	0.54
1:G:771:ILE:HD13	1:G:774:ARG:HH12	2.20	0.54
1:H:175:ARG:HG3	1:H:215:LEU:HD23	2.14	0.54
1:H:261:PRO:HD2	1:H:264:TYR:HD1	1.78	0.54
1:I:100:TYR:HB3	1:I:101:PRO:CD	2.37	0.54
1:I:70:GLN:HE21	1:I:104:VAL:HG12	1.88	0.54
1:I:128:ASP:HB2	1:I:155:LYS:HB3	1.89	0.54
1:I:244:ARG:N	1:I:247:GLU:OE1	2.40	0.54
1:I:221:LEU:HD22	1:I:256:THR:CG2	2.36	0.54
1:I:58:TYR:HD1	1:I:99:LEU:HD12	1.73	0.54
1:J:155:LYS:HB2	1:J:155:LYS:NZ	2.22	0.54
1:J:228:HIS:NE2	1:J:248:GLU:OE1	3.20	0.54
1:J:285:LEU:HD12	1:J:315:ARG:HD2	1.89	0.54
1:J:3:THR:HG22	1:J:50:MET:HE1	2.09	0.54
1:L:419:LEU:CD2	1:L:422:GLY:H	2.19	0.54
1:L:568:VAL:HG23	1:L:569:GLY:N	2.38	0.54
1:M:339:PRO:HD2	1:M:370:LYS:HB3	1.90	0.54
1:M:332:LEU:HD11	1:M:379:ALA:HB2	2.08	0.54
1:M:63:ASN:N	1:M:64:PRO:HD2	2.28	0.54
1:O:5:GLU:HG2	1:O:43:VAL:HG21	1.90	0.54
1:P:176:LEU:HB2	1:P:196:TRP:HB2	1.90	0.54
1:P:354:GLY:O	1:Q:328:GLU:HG3	2.08	0.54
1:P:394:LYS:HA	1:Q:329:GLN:NE2	2.23	0.54
1:R:4:GLU:OE2	1:R:6:ALA:HB2	2.08	0.54
1:S:167:VAL:HG22	1:S:201:VAL:HA	1.88	0.54
1:S:481:VAL:O	1:S:481:VAL:CG1	2.55	0.54
1:T:122:HIS:HB3	1:T:160:VAL:H	1.73	0.54
1:U:183:PHE:HA	1:U:190:ARG:HD3	1.88	0.54
1:V:10:ILE:HG23	1:V:11:PRO:HD2	1.89	0.54
1:W:18:VAL:H	1:W:48:VAL:CG1	2.17	0.54
1:W:536:ARG:HB2	1:W:646:VAL:HB	1.88	0.54
1:X:123:LEU:CG	1:X:143:TRP:HB2	2.38	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:221:LEU:HD22	1:X:256:THR:HB	1.88	0.54
1:X:8:ILE:HA	1:X:40:ASN:HD22	1.72	0.54
1:Y:252:THR:H	1:Y:254:GLN:NE2	2.05	0.54
1:Y:388:ILE:HD13	1:Y:390:VAL:HG13	1.90	0.54
1:A:53:VAL:HG11	1:A:56:ARG:HE	1.73	0.54
1:B:68:ASP:O	1:B:106:GLU:HB2	2.08	0.54
1:B:122:HIS:O	1:B:159:VAL:N	2.37	0.54
1:B:311:GLN:HB2	1:B:314:GLU:HG3	1.88	0.54
1:B:332:LEU:CD2	1:B:407:MET:HB2	2.31	0.54
1:C:251:VAL:HG23	1:C:254:GLN:NE2	2.23	0.54
1:D:311:GLN:N	1:D:314:GLU:HG3	2.23	0.54
1:E:15:TYR:CE2	1:E:17:HIS:HB3	2.48	0.54
1:E:235:PHE:CE1	1:E:264:TYR:CE1	2.95	0.54
1:E:43:VAL:HG12	1:E:45:PHE:O	2.11	0.54
1:E:571:ALA:O	1:E:575:ILE:HG13	2.08	0.54
1:F:662:ILE:O	1:F:666:THR:HB	2.14	0.54
1:F:766:ARG:HD3	1:G:772:TYR:CB	2.83	0.54
1:G:725:GLU:O	1:G:728:SER:HB3	2.28	0.54
1:G:58:TYR:CD1	1:G:98:PRO:HA	2.73	0.54
1:I:8:ILE:HG22	1:I:40:ASN:HD21	1.85	0.54
1:J:221:LEU:CD2	1:J:256:THR:CB	3.03	0.54
1:J:335:LYS:HB2	1:J:335:LYS:HZ3	1.71	0.54
1:K:771:ILE:HA	1:K:774:ARG:HH11	2.75	0.54
1:L:330:GLN:OE1	1:L:407:MET:HG3	2.91	0.54
1:N:234:ASN:ND2	1:N:245:THR:H	2.05	0.54
1:P:109:ILE:HD12	1:P:153:PRO:CG	2.37	0.54
1:P:485:GLU:CG	1:P:486:LEU:N	2.70	0.54
1:R:183:PHE:HE2	1:R:188:LYS:HA	1.72	0.54
1:T:419:LEU:HD12	1:T:494:GLN:NE2	2.22	0.54
1:U:337:LEU:CD2	1:U:351:HIS:HB2	2.38	0.54
1:U:388:ILE:N	1:U:388:ILE:HD13	2.21	0.54
1:W:113:GLN:HG2	1:W:150:THR:HB	1.88	0.54
1:W:123:LEU:CG	1:W:143:TRP:HB2	2.33	0.54
1:W:389:TYR:CE1	1:W:457:VAL:HA	2.43	0.54
1:W:474:ARG:HG3	1:W:492:GLU:HB2	1.90	0.54
1:X:84:ARG:NH2	1:X:101:PRO:HD2	2.23	0.54
1:X:382:LEU:N	1:X:405:THR:HG22	2.22	0.54
1:Y:220:ILE:C	1:Y:222:THR:H	2.11	0.54
1:A:146:GLU:OE1	1:A:146:GLU:HA	2.33	0.54
1:A:363:LEU:HD13	1:A:364:GLU:H	1.73	0.54
1:B:284:ILE:HD13	1:B:300:ARG:O	5.09	0.54
1:B:470:VAL:HB	1:B:479:ARG:HD2	1.89	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:296:LEU:HG	1:C:307:SER:HB3	2.69	0.54
1:C:340:LEU:HG	1:C:353:ALA:H	1.86	0.54
1:D:184:ASP:HB2	1:D:189:GLY:O	2.07	0.54
1:D:354:GLY:O	1:D:356:CYS:N	2.41	0.54
1:D:395:THR:HB	1:D:397:LYS:HB3	2.40	0.54
1:D:421:SER:HB3	1:D:512:ARG:HH21	1.73	0.54
1:D:532:ALA:HB1	1:E:593:LYS:HE2	2.05	0.54
1:E:328:GLU:OE1	1:E:328:GLU:HA	4.59	0.54
1:E:18:VAL:N	1:E:48:VAL:HG13	2.18	0.54
1:G:802:LEU:HD12	1:G:806:THR:CG2	2.38	0.54
1:H:14:HIS:CB	1:H:56:ARG:HB2	2.38	0.54
1:H:175:ARG:HH21	1:H:263:VAL:HG13	1.73	0.54
1:H:276:LEU:N	1:H:280:HIS:HB2	2.22	0.54
1:I:276:LEU:N	1:I:280:HIS:HB2	2.31	0.54
1:I:470:VAL:HB	1:I:479:ARG:HD2	1.89	0.54
1:J:527:ILE:H	1:J:527:ILE:CD1	2.15	0.54
1:L:766:ARG:HG3	1:M:772:TYR:CD1	2.72	0.54
1:M:230:ARG:HB3	1:M:230:ARG:HH11	1.79	0.54
1:M:283:VAL:HG22	1:M:301:VAL:CG1	2.36	0.54
1:M:527:ILE:HD11	1:M:539:LEU:CG	4.34	0.54
1:M:795:PHE:O	1:M:799:THR:HG22	2.07	0.54
1:M:8:ILE:HG22	1:M:40:ASN:HD21	1.72	0.54
1:O:227:LEU:HB2	1:O:251:VAL:CG1	2.37	0.54
1:O:543:TYR:HE2	1:O:575:ILE:HG21	1.70	0.54
1:P:122:HIS:O	1:P:159:VAL:N	2.36	0.54
1:R:279:ARG:HA	1:R:323:VAL:HG22	1.90	0.54
1:R:415:TRP:CH2	1:R:417:LYS:HB3	2.43	0.54
1:S:217:ASP:OD1	1:S:257:GLU:O	2.24	0.54
1:S:3:THR:H	1:S:50:MET:HE1	1.72	0.54
1:V:623:ARG:CG	1:V:624:ASP:H	2.15	0.54
1:X:104:VAL:HG22	1:X:105:LEU:H	1.72	0.54
1:X:402:ILE:HD12	1:X:402:ILE:O	2.08	0.54
1:Z:501:SER:HB3	1:Z:507:ARG:O	2.07	0.54
1:A:327:SER:CA	1:A:331:GLY:HA3	2.38	0.54
1:B:398:VAL:HB	1:C:384:GLN:HE22	1.72	0.54
1:C:508:PRO:O	1:C:509:HIS:HD2	1.90	0.54
1:D:795:PHE:O	1:D:799:THR:HG22	2.87	0.54
1:D:71:SER:HB3	1:D:89:GLU:HG3	1.88	0.54
1:E:340:LEU:HD23	1:E:352:GLN:HA	1.88	0.54
1:E:407:MET:SD	1:E:407:MET:N	2.94	0.54
1:F:130:GLU:HA	1:F:136:LYS:HA	2.79	0.54
1:G:100:TYR:HB3	1:G:101:PRO:CD	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:255:ASP:OD2	1:G:257:GLU:HB3	2.08	0.54
1:G:811:ALA:C	1:G:813:ALA:H	2.37	0.54
1:H:335:LYS:HB2	1:H:335:LYS:NZ	2.41	0.54
1:H:600:ARG:CZ	1:H:622:ALA:HB3	2.38	0.54
1:H:769:GLU:HG2	1:H:769:GLU:O	2.40	0.54
1:H:654:LEU:HD11	1:I:662:ILE:HG21	2.11	0.54
1:I:664:ILE:O	1:I:668:SER:HB2	2.08	0.54
1:I:714:MET:O	1:I:714:MET:HE2	2.08	0.54
1:J:120:ALA:HB3	1:J:162:ILE:HG13	1.89	0.54
1:J:215:LEU:HD12	1:J:259:HIS:NE2	2.45	0.54
1:J:708:GLU:HG3	1:K:716:VAL:HG11	1.90	0.54
1:L:182:CYS:SG	1:L:208:VAL:HG23	2.80	0.54
1:L:243:HIS:NE2	1:L:249:TRP:CD2	2.75	0.54
1:N:220:ILE:O	1:N:253:VAL:HG22	2.07	0.54
1:M:354:GLY:C	1:N:328:GLU:HG3	2.28	0.54
1:N:5:GLU:OE1	1:N:43:VAL:HG11	2.07	0.54
1:O:594:ASN:HB2	1:O:598:ILE:CD1	2.38	0.54
1:P:90:ILE:O	1:P:90:ILE:HD12	2.08	0.54
1:R:311:GLN:HB3	1:R:312:PRO:CD	2.33	0.54
1:R:452:ARG:HG3	1:R:452:ARG:HH11	1.73	0.54
1:T:338:GLN:HB3	1:T:339:PRO:HD3	1.90	0.54
1:T:802:LEU:HD12	1:T:806:THR:HG22	1.90	0.54
1:U:236:ARG:HB3	1:U:236:ARG:HH11	1.73	0.54
1:U:527:ILE:HD13	1:U:539:LEU:O	2.07	0.54
1:V:600:ARG:O	1:V:604:PHE:HD1	1.90	0.54
1:W:326:LEU:HD21	1:W:333:LEU:HG	1.90	0.54
1:Y:327:SER:CB	1:Y:331:GLY:HA3	2.37	0.54
1:Y:46:ALA:N	1:Y:47:PRO:HD3	2.21	0.54
1:A:329:GLN:NE2	1:A:330:GLN:HG2	2.22	0.54
1:B:243:HIS:NE2	1:B:249:TRP:CD2	2.82	0.54
1:B:633:LEU:HD23	1:B:634:VAL:N	2.71	0.54
1:B:701:LYS:HG3	1:C:709:LEU:HD13	1.90	0.54
1:C:255:ASP:CG	1:C:256:THR:H	2.48	0.54
1:D:20:ASP:HB2	1:D:49:ARG:HD3	1.90	0.54
1:D:337:LEU:N	1:D:337:LEU:HD23	2.32	0.54
1:E:70:GLN:HB3	1:E:104:VAL:N	2.15	0.54
1:G:284:ILE:N	1:G:284:ILE:HD13	2.24	0.54
1:G:660:LEU:HA	1:G:663:GLU:HB3	1.90	0.54
1:H:623:ARG:CG	1:H:624:ASP:H	2.21	0.54
1:H:653:ALA:CB	1:I:662:ILE:CD1	2.76	0.54
1:J:152:ILE:N	1:J:152:ILE:CD1	3.18	0.54
1:J:182:CYS:SG	1:J:208:VAL:HB	2.48	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:43:VAL:CG1	1:J:45:PHE:O	2.80	0.54
1:J:605:GLY:HA3	1:J:623:ARG:HH21	1.73	0.54
1:K:342:GLU:HA	1:K:350:SER:HA	1.90	0.54
1:L:121:LEU:HD12	1:L:145:PHE:HD2	1.73	0.54
1:M:273:ILE:HG12	1:M:310:LEU:HD11	2.57	0.54
1:M:384:GLN:N	1:M:384:GLN:HE21	2.04	0.54
1:M:692:LYS:HG2	1:M:696:GLN:HE21	1.73	0.54
1:N:169:LYS:HE3	1:N:201:VAL:HG11	1.90	0.54
1:N:558:ALA:O	1:N:561:LEU:HB2	2.08	0.54
1:N:523:PHE:CE1	1:N:568:VAL:HG12	2.43	0.54
1:O:19:LEU:HA	1:O:32:PRO:CB	2.37	0.54
1:O:654:LEU:HD13	1:P:662:ILE:CD1	2.37	0.54
1:P:239:ARG:NH2	1:P:257:GLU:HG2	2.23	0.54
1:P:752:ALA:O	1:P:756:GLU:HB2	2.08	0.54
1:Q:244:ARG:N	1:Q:247:GLU:OE1	2.38	0.54
1:Q:268:LEU:HD13	1:Q:269:GLY:N	2.23	0.54
1:Q:418:GLU:HG2	1:Q:423:VAL:HG22	1.90	0.54
1:Q:425:GLU:HG3	1:Q:514:LEU:HB2	1.89	0.54
1:Q:687:ARG:HG2	1:Q:691:GLN:HE21	1.73	0.54
1:R:391:GLN:HB2	1:R:398:VAL:HG22	1.90	0.54
1:S:564:VAL:CG2	1:S:631:ASN:HD22	2.20	0.54
1:U:217:ASP:HB2	1:U:258:ALA:HA	1.88	0.54
1:U:522:PHE:C	1:U:522:PHE:CD2	2.81	0.54
1:V:360:ARG:HG3	1:V:361:GLY:N	2.22	0.54
1:V:419:LEU:CG	1:V:420:PRO:HD2	2.29	0.54
1:W:533:ASP:OD1	1:W:587:THR:HA	2.08	0.54
1:X:18:VAL:N	1:X:48:VAL:HG13	2.17	0.54
1:Y:489:LEU:HD11	1:Y:495:PHE:CE1	2.43	0.54
1:Z:36:ILE:C	1:Z:36:ILE:HD12	2.28	0.54
1:A:485:GLU:CG	1:Z:476:LYS:HE2	273.45	0.54
1:A:336:ALA:HA	1:A:356:CYS:HB3	2.42	0.53
1:A:490:ASP:CG	1:A:491:PRO:HD2	2.41	0.53
1:A:511:ARG:NH2	1:A:517:LEU:HD11	2.22	0.53
1:B:123:LEU:HD11	1:B:143:TRP:HD1	1.71	0.53
1:B:175:ARG:NE	1:B:263:VAL:HG22	2.22	0.53
1:C:260:VAL:O	1:C:262:ASP:N	2.57	0.53
1:B:471:TYR:CE1	1:C:484:PRO:HG2	2.82	0.53
1:D:224:LYS:CA	1:D:272:PRO:HG3	2.29	0.53
1:F:471:TYR:CE1	1:G:484:PRO:HG2	2.44	0.53
1:H:291:ASP:C	1:H:293:LYS:H	2.11	0.53
1:H:723:LYS:HG3	1:I:735:ILE:HD11	1.89	0.53
1:H:77:ILE:HD11	1:H:80:GLN:HG3	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:16:ILE:HB	1:I:51:VAL:HB	1.89	0.53
1:I:239:ARG:NH2	1:I:257:GLU:OE2	2.94	0.53
1:I:418:GLU:HG2	1:I:423:VAL:HG22	1.90	0.53
1:J:251:VAL:CG2	1:J:254:GLN:HE21	2.20	0.53
1:J:252:THR:N	1:J:254:GLN:HE21	2.23	0.53
1:J:523:PHE:CE1	1:J:568:VAL:HG12	2.58	0.53
1:J:9:ARG:HH12	1:J:36:ILE:CA	2.12	0.53
1:K:654:LEU:CD1	1:L:662:ILE:HG21	2.71	0.53
1:M:532:ALA:HB2	1:M:584:ALA:O	2.46	0.53
1:M:807:ILE:HD12	1:M:808:ARG:H	4.53	0.53
1:N:275:THR:HG22	1:N:320:ILE:HG22	1.90	0.53
1:N:60:ILE:HD12	1:N:60:ILE:H	1.73	0.53
1:M:653:ALA:HB3	1:N:662:ILE:HD11	1.86	0.53
1:M:766:ARG:HG2	1:N:772:TYR:CD1	2.43	0.53
1:O:653:ALA:CB	1:P:662:ILE:CD1	2.81	0.53
1:P:175:ARG:NE	1:P:263:VAL:HG22	2.23	0.53
1:P:452:ARG:HH11	1:P:452:ARG:HG3	1.73	0.53
1:Q:8:ILE:HA	1:Q:40:ASN:HD22	1.74	0.53
1:Q:43:VAL:HG12	1:Q:45:PHE:O	2.07	0.53
1:Q:18:VAL:CG1	1:Q:48:VAL:HG22	2.27	0.53
1:R:194:GLU:HG2	1:R:195:GLU:N	2.23	0.53
1:R:662:ILE:O	1:R:666:THR:HB	2.07	0.53
1:S:337:LEU:HD22	1:S:357:TRP:HZ3	1.74	0.53
1:R:127:LEU:HB3	1:S:64:PRO:HD3	1.89	0.53
1:T:196:TRP:HE3	1:T:196:TRP:HA	1.73	0.53
1:T:469:GLN:HB3	1:T:496:THR:CG2	2.35	0.53
1:T:74:LEU:HD22	1:T:100:TYR:HE2	1.73	0.53
1:U:485:GLU:HG2	1:U:486:LEU:N	2.23	0.53
1:V:185:ARG:HG3	1:V:206:PRO:HB3	1.90	0.53
1:V:327:SER:HB2	1:V:331:GLY:CA	2.37	0.53
1:W:77:ILE:HD11	1:W:80:GLN:HB2	1.90	0.53
1:X:571:ALA:O	1:X:575:ILE:HG12	2.07	0.53
1:Z:164:GLN:HB3	1:Z:204:TYR:HA	1.90	0.53
1:Z:284:ILE:HD13	1:Z:300:ARG:O	2.08	0.53
1:Z:623:ARG:CG	1:Z:624:ASP:H	2.21	0.53
1:A:753:ILE:HD13	1:Z:745:LYS:HG3	171.75	0.53
1:A:398:VAL:H	1:B:384:GLN:CD	2.21	0.53
1:B:415:TRP:CH2	1:B:417:LYS:HB3	2.43	0.53
1:C:243:HIS:NE2	1:C:249:TRP:CE2	2.75	0.53
1:C:221:LEU:CD2	1:C:256:THR:HB	2.36	0.53
1:D:273:ILE:HD13	1:D:316:LEU:HD11	1.91	0.53
1:C:398:VAL:N	1:D:384:GLN:OE1	2.50	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:62:ALA:O	1:D:93:ALA:HB2	2.57	0.53
1:E:297:GLY:O	1:F:276:LEU:HD22	2.07	0.53
1:E:676:GLU:OE1	1:E:676:GLU:HA	2.06	0.53
1:F:10:ILE:N	1:F:10:ILE:HD12	2.21	0.53
1:G:180:LYS:O	1:G:182:CYS:N	2.55	0.53
1:G:273:ILE:CD1	1:G:316:LEU:HD21	3.14	0.53
1:F:719:THR:HG22	1:G:728:SER:HA	2.13	0.53
1:H:3:THR:H	1:H:50:MET:HE1	2.98	0.53
1:H:5:GLU:O	1:H:41:GLU:O	2.27	0.53
1:K:251:VAL:CG2	1:K:254:GLN:HE21	2.21	0.53
1:L:166:THR:HA	1:L:202:GLY:HA2	1.89	0.53
1:L:221:LEU:HA	1:L:253:VAL:HG13	2.05	0.53
1:N:327:SER:O	1:N:328:GLU:HB2	2.08	0.53
1:O:172:GLN:HG2	1:O:216:VAL:HG12	1.90	0.53
1:O:284:ILE:HD13	1:O:300:ARG:O	2.07	0.53
1:P:14:HIS:HB3	1:P:56:ARG:HB2	1.89	0.53
1:O:476:LYS:HE3	1:P:485:GLU:HG3	1.90	0.53
1:Q:125:ALA:HB1	1:Q:128:ASP:HB3	1.88	0.53
1:Q:130:GLU:HA	1:Q:137:VAL:H	1.73	0.53
1:Q:354:GLY:CA	1:R:328:GLU:HG3	2.38	0.53
1:R:87:ASP:CG	1:R:88:GLN:N	2.61	0.53
1:S:758:GLU:O	1:S:762:VAL:HG23	2.08	0.53
1:T:221:LEU:CD2	1:T:256:THR:HG21	2.38	0.53
1:T:175:ARG:HE	1:T:263:VAL:HG22	1.72	0.53
1:T:330:GLN:HB3	1:T:379:ALA:HB3	1.90	0.53
1:T:60:ILE:HG22	1:T:66:SER:HA	1.90	0.53
1:U:175:ARG:NE	1:U:263:VAL:HG22	2.21	0.53
1:V:164:GLN:HB3	1:V:204:TYR:HA	1.88	0.53
1:V:472:ASP:HA	1:V:493:GLU:CB	2.38	0.53
1:X:279:ARG:O	1:X:323:VAL:N	2.39	0.53
1:Y:224:LYS:HA	1:Y:272:PRO:HG3	1.90	0.53
1:Y:481:VAL:HG13	1:Y:481:VAL:O	2.09	0.53
1:Y:597:ARG:HG3	1:Y:600:ARG:HH21	1.73	0.53
1:Z:536:ARG:HB2	1:Z:646:VAL:HB	1.90	0.53
1:A:716:VAL:HG11	1:Z:708:GLU:HG3	178.65	0.53
1:B:16:ILE:HA	1:B:34:THR:OG1	2.08	0.53
1:C:255:ASP:CG	1:C:256:THR:N	2.92	0.53
1:D:18:VAL:H	1:D:48:VAL:CG1	2.16	0.53
1:E:130:GLU:HB2	1:E:136:LYS:CB	2.38	0.53
1:E:113:GLN:OE1	1:E:149:GLY:HA2	2.08	0.53
1:E:311:GLN:HB3	1:E:312:PRO:HD2	1.96	0.53
1:F:284:ILE:HD11	1:F:300:ARG:HB3	2.42	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:174:LEU:H	1:G:198:VAL:HB	2.40	0.53
1:H:17:HIS:CD2	1:H:18:VAL:HG22	2.54	0.53
1:H:8:ILE:HG22	1:H:40:ASN:ND2	2.36	0.53
1:I:176:LEU:O	1:I:196:TRP:HB2	2.43	0.53
1:J:154:GLN:HG3	1:J:155:LYS:NZ	2.68	0.53
1:K:388:ILE:O	1:K:388:ILE:HD12	4.42	0.53
1:K:30:VAL:HA	1:K:74:LEU:HD11	1.90	0.53
1:L:23:SER:HB2	1:L:31:GLY:HA2	1.90	0.53
1:M:243:HIS:NE2	1:M:249:TRP:CE2	2.76	0.53
1:O:285:LEU:HB2	1:O:315:ARG:HG3	1.91	0.53
1:O:384:GLN:H	1:O:384:GLN:HE21	1.56	0.53
1:O:481:VAL:HG11	1:O:487:VAL:HG11	1.87	0.53
1:R:123:LEU:HA	1:R:158:GLU:HA	1.90	0.53
1:R:281:TYR:CE1	1:R:321:GLN:HB2	2.43	0.53
1:R:8:ILE:HA	1:R:40:ASN:HD22	1.72	0.53
1:S:771:ILE:HD13	1:S:774:ARG:HH11	1.74	0.53
1:T:130:GLU:H	1:T:137:VAL:HG22	1.73	0.53
1:U:196:TRP:HE3	1:U:196:TRP:HA	1.71	0.53
1:U:220:ILE:CD1	1:U:251:VAL:HG13	2.39	0.53
1:U:701:LYS:HG3	1:V:709:LEU:HD13	1.90	0.53
1:V:813:ALA:O	1:V:815:PRO:HD3	2.08	0.53
1:W:14:HIS:HB2	1:W:56:ARG:HB2	1.91	0.53
1:W:490:ASP:CG	1:W:491:PRO:HD2	2.28	0.53
1:Y:155:LYS:H	1:Y:155:LYS:HZ2	1.55	0.53
1:Z:762:VAL:O	1:Z:766:ARG:HB2	2.08	0.53
1:A:474:ARG:CG	1:A:492:GLU:HB2	2.42	0.53
1:B:5:GLU:CG	1:B:43:VAL:HG21	2.39	0.53
1:C:229:LEU:HD23	1:C:266:GLU:HA	1.90	0.53
1:C:399:ARG:HG2	1:C:399:ARG:HH11	2.14	0.53
1:C:70:GLN:HA	1:C:88:GLN:HG3	2.67	0.53
1:E:337:LEU:HG	1:E:354:GLY:H	1.73	0.53
1:G:100:TYR:HB3	1:G:101:PRO:HD2	2.08	0.53
1:G:777:LEU:HD11	1:H:783:LYS:CB	2.43	0.53
1:G:56:ARG:HH11	1:G:99:LEU:CD2	2.56	0.53
1:H:120:ALA:HB3	1:H:162:ILE:HG13	1.94	0.53
1:I:113:GLN:O	1:I:114:VAL:HG13	2.08	0.53
1:I:221:LEU:HD22	1:I:256:THR:CB	2.82	0.53
1:I:398:VAL:N	1:J:384:GLN:OE1	2.41	0.53
1:I:719:THR:HG22	1:J:728:SER:HA	1.97	0.53
1:J:116:LEU:CB	1:J:117:PRO:CD	3.00	0.53
1:J:330:GLN:HE22	1:J:360:ARG:HD2	1.73	0.53
1:J:324:TYR:HE1	1:J:373:VAL:HG21	2.29	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:206:PRO:HB2	1:K:209:PHE:CD2	2.43	0.53
1:K:354:GLY:O	1:K:356:CYS:N	2.72	0.53
1:K:522:PHE:C	1:K:522:PHE:CD2	2.81	0.53
1:K:734:ARG:HH21	1:K:735:ILE:CD1	2.20	0.53
1:L:113:GLN:HG2	1:L:150:THR:HB	3.62	0.53
1:L:332:LEU:HD13	1:L:377:ARG:HG2	1.90	0.53
1:L:415:TRP:CZ3	1:L:417:LYS:HB3	2.44	0.53
1:L:14:HIS:CG	1:L:99:LEU:HD22	2.44	0.53
1:M:24:ASN:ND2	1:M:30:VAL:HB	2.27	0.53
1:N:287:PRO:O	1:N:295:GLN:HB2	2.08	0.53
1:O:113:GLN:HG2	1:O:150:THR:HB	1.90	0.53
1:O:120:ALA:O	1:O:161:GLU:HA	2.08	0.53
1:O:224:LYS:O	1:O:272:PRO:HD3	2.09	0.53
1:O:30:VAL:HG22	1:O:74:LEU:HD11	1.91	0.53
1:R:287:PRO:O	1:R:295:GLN:HB2	2.09	0.53
1:S:228:HIS:HB3	1:S:267:VAL:HB	1.90	0.53
1:U:326:LEU:HB2	1:U:328:GLU:OE1	2.08	0.53
1:W:120:ALA:O	1:W:161:GLU:HA	2.08	0.53
1:X:288:MET:HB3	1:X:294:ASN:HA	1.90	0.53
1:X:469:GLN:HB3	1:X:496:THR:CG2	2.36	0.53
1:Y:227:LEU:HB2	1:Y:251:VAL:HG13	1.89	0.53
1:Y:469:GLN:HB3	1:Y:496:THR:CG2	2.37	0.53
1:Y:77:ILE:HG13	1:Y:79:GLY:N	2.23	0.53
1:Z:176:LEU:HB2	1:Z:196:TRP:CB	2.30	0.53
1:Z:182:CYS:SG	1:Z:208:VAL:CG2	2.96	0.53
1:A:332:LEU:CD2	1:A:407:MET:HB2	2.38	0.53
1:A:330:GLN:CB	1:A:379:ALA:HB3	2.39	0.53
1:B:206:PRO:HB2	1:B:209:PHE:CD2	2.44	0.53
1:C:234:ASN:HD22	1:C:234:ASN:N	2.43	0.53
1:D:328:GLU:HG3	1:D:329:GLN:N	4.79	0.53
1:D:459:SER:CB	1:D:488:THR:HG22	2.37	0.53
1:D:497:VAL:HG12	1:D:498:LEU:N	2.24	0.53
1:E:261:PRO:HD2	1:E:264:TYR:HB2	1.91	0.53
1:E:339:PRO:HD2	1:E:370:LYS:HB3	2.21	0.53
1:G:17:HIS:CD2	1:G:18:VAL:HG22	2.46	0.53
1:G:61:VAL:HG13	1:G:65:VAL:HB	3.05	0.53
1:H:485:GLU:HG2	1:H:486:LEU:N	2.24	0.53
1:H:36:ILE:HG21	1:H:99:LEU:HD13	1.91	0.53
1:I:24:ASN:HD22	1:I:30:VAL:HB	1.73	0.53
1:I:529:ILE:HD13	1:I:583:VAL:HG11	1.90	0.53
1:I:60:ILE:HB	1:I:93:ALA:HA	1.90	0.53
1:J:36:ILE:O	1:J:37:ARG:HG3	2.58	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:51:VAL:O	1:J:53:VAL:HG23	2.40	0.53
1:K:332:LEU:HG	1:K:360:ARG:HB2	1.91	0.53
1:K:75:PHE:CZ	1:K:77:ILE:HG23	3.01	0.53
1:L:115:VAL:O	1:L:118:ASN:CB	2.49	0.53
1:L:137:VAL:HG23	1:L:138:MET:N	2.24	0.53
1:L:234:ASN:HD22	1:L:234:ASN:N	2.06	0.53
1:L:61:VAL:HG22	1:L:65:VAL:HG23	1.91	0.53
1:M:190:ARG:O	1:M:191:VAL:HG23	2.39	0.53
1:M:221:LEU:CD2	1:M:256:THR:CB	3.40	0.53
1:M:291:ASP:C	1:M:293:LYS:H	2.15	0.53
1:M:8:ILE:HD13	1:M:8:ILE:N	4.71	0.53
1:N:808:ARG:HH22	1:O:806:THR:HA	1.72	0.53
1:O:162:ILE:N	1:O:162:ILE:HD13	2.24	0.53
1:R:121:LEU:HB2	1:R:145:PHE:HB3	1.90	0.53
1:R:68:ASP:HA	1:R:90:ILE:HA	1.90	0.53
1:S:113:GLN:O	1:S:114:VAL:HG13	2.08	0.53
1:T:526:VAL:HG22	1:T:540:GLN:HG2	1.90	0.53
1:S:766:ARG:HG3	1:T:772:TYR:CD1	2.43	0.53
1:U:175:ARG:HG3	1:U:215:LEU:HD23	1.91	0.53
1:U:380:ILE:HD13	1:U:388:ILE:HD12	1.91	0.53
1:V:268:LEU:HD13	1:V:269:GLY:N	2.24	0.53
1:W:14:HIS:HB3	1:W:56:ARG:HB2	1.91	0.53
1:W:11:PRO:CA	1:W:38:GLN:HA	2.37	0.53
1:V:654:LEU:CD1	1:W:662:ILE:CD1	2.85	0.53
1:Y:489:LEU:HD11	1:Y:495:PHE:CD1	2.43	0.53
1:Z:90:ILE:N	1:Z:90:ILE:HD13	2.23	0.53
1:A:533:ASP:OD1	1:A:588:PHE:N	2.42	0.53
1:B:236:ARG:CZ	1:B:236:ARG:HB3	2.38	0.53
1:B:394:LYS:HA	1:C:329:GLN:NE2	2.30	0.53
1:B:623:ARG:HG2	1:B:624:ASP:H	1.71	0.53
1:C:16:ILE:HD11	1:C:56:ARG:HH22	1.73	0.53
1:D:283:VAL:HG22	1:D:301:VAL:HG12	1.90	0.53
1:E:239:ARG:HH21	1:E:257:GLU:CG	2.61	0.53
1:E:267:VAL:O	1:E:268:LEU:HB2	2.08	0.53
1:E:286:ASP:N	1:E:287:PRO:HD3	2.23	0.53
1:E:311:GLN:N	1:E:314:GLU:HG3	2.33	0.53
1:F:221:LEU:CD2	1:F:256:THR:CG2	3.14	0.53
1:F:335:LYS:HE2	1:F:371:VAL:HG11	2.16	0.53
1:G:164:GLN:HB3	1:G:204:TYR:HA	1.94	0.53
1:G:230:ARG:HB2	1:G:265:GLU:HB3	1.88	0.53
1:G:698:GLU:HA	1:G:698:GLU:OE2	2.09	0.53
1:H:221:LEU:HD13	1:H:256:THR:HB	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:29:GLU:O	1:H:84:ARG:NH1	2.53	0.53
1:I:230:ARG:HB2	1:I:265:GLU:HB3	1.91	0.53
1:I:328:GLU:OE1	1:I:361:GLY:O	2.46	0.53
1:I:9:ARG:NH1	1:I:36:ILE:HA	2.17	0.53
1:I:299:LYS:HE3	1:J:276:LEU:HD11	1.89	0.53
1:J:2:ALA:HB3	1:J:46:ALA:O	2.20	0.53
1:J:284:ILE:HD13	1:J:300:ARG:O	2.09	0.53
1:J:663:GLU:O	1:J:666:THR:HG22	2.25	0.53
1:K:5:GLU:O	1:K:41:GLU:O	2.57	0.53
1:J:807:ILE:HD12	1:K:806:THR:HG21	2.02	0.53
1:L:417:LYS:HE3	1:L:491:PRO:O	2.33	0.53
1:L:426:LEU:HD21	1:L:495:PHE:CE1	2.43	0.53
1:O:327:SER:CA	1:O:331:GLY:HA3	2.38	0.53
1:P:115:VAL:N	1:P:118:ASN:HD22	2.07	0.53
1:P:120:ALA:HB3	1:P:162:ILE:HG13	1.91	0.53
1:P:221:LEU:HA	1:P:253:VAL:HG13	1.90	0.53
1:P:13:TYR:HB3	1:P:54:PRO:O	2.09	0.53
1:Q:18:VAL:N	1:Q:48:VAL:HG13	2.16	0.53
1:U:382:LEU:HD13	1:U:387:GLY:HA2	1.89	0.53
1:U:523:PHE:HE1	1:U:568:VAL:HG12	1.71	0.53
1:V:239:ARG:NH2	1:V:257:GLU:HG2	2.24	0.53
1:V:242:LEU:H	1:V:242:LEU:HD23	1.73	0.53
1:W:390:VAL:HG12	1:W:408:LEU:HD23	1.90	0.53
1:X:194:GLU:HG2	1:X:195:GLU:H	1.73	0.53
1:W:476:LYS:CG	1:X:485:GLU:HG3	2.38	0.53
1:Y:169:LYS:HG3	1:Y:170:GLN:H	1.73	0.53
1:Y:175:ARG:HB3	1:Y:212:VAL:HB	1.90	0.53
1:Y:287:PRO:O	1:Y:295:GLN:HB2	2.09	0.53
1:Z:311:GLN:HB2	1:Z:314:GLU:HG3	1.90	0.53
1:Z:330:GLN:HG3	1:Z:379:ALA:HB3	1.91	0.53
1:B:89:GLU:HA	1:B:90:ILE:HD13	6.28	0.53
1:C:174:LEU:O	1:C:197:LEU:HA	2.09	0.53
1:C:273:ILE:CD1	1:C:316:LEU:HD11	2.31	0.53
1:C:327:SER:H	1:C:331:GLY:HA3	1.73	0.53
1:C:416:GLU:HB2	1:C:454:LYS:HB3	1.91	0.53
1:C:60:ILE:HG22	1:C:66:SER:HA	1.96	0.53
1:D:144:LEU:H	1:D:144:LEU:HD12	1.74	0.53
1:D:796:LYS:CA	1:D:799:THR:HG22	2.37	0.53
1:E:279:ARG:O	1:E:323:VAL:N	2.40	0.53
1:E:74:LEU:HD22	1:E:100:TYR:CE2	2.44	0.53
1:F:251:VAL:HG21	1:F:257:GLU:HG2	1.90	0.53
1:G:600:ARG:NH1	1:G:622:ALA:HB3	2.24	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:332:LEU:HG	1:H:360:ARG:HB2	1.91	0.53
1:I:2:ALA:HB3	1:I:46:ALA:O	2.18	0.53
1:I:566:ASP:OD2	1:I:569:GLY:HA3	2.35	0.53
1:J:152:ILE:HD13	1:J:152:ILE:H	2.14	0.53
1:J:806:THR:O	1:J:810:LEU:HB2	2.09	0.53
1:K:384:GLN:NE2	1:K:384:GLN:H	2.22	0.53
1:K:605:GLY:O	1:K:623:ARG:HB2	2.24	0.53
1:L:61:VAL:HG13	1:L:65:VAL:CG2	3.18	0.53
1:L:8:ILE:HG22	1:L:40:ASN:ND2	2.24	0.53
1:M:155:LYS:H	1:M:155:LYS:HZ2	1.56	0.53
1:M:17:HIS:CD2	1:M:18:VAL:HG22	2.44	0.53
1:M:217:ASP:OD1	1:M:257:GLU:O	2.26	0.53
1:M:470:VAL:HB	1:M:479:ARG:HD2	1.91	0.53
1:M:653:ALA:CB	1:N:662:ILE:CD1	2.81	0.53
1:N:537:LEU:HD21	1:N:588:PHE:HE1	1.73	0.53
1:N:77:ILE:CG1	1:N:80:GLN:H	2.19	0.53
1:P:697:SER:HA	1:Q:706:LEU:HD23	1.91	0.53
1:Q:676:GLU:HA	1:Q:676:GLU:OE1	2.08	0.53
1:R:15:TYR:CE2	1:R:17:HIS:HB3	2.44	0.53
1:S:122:HIS:HB2	1:S:160:VAL:O	2.09	0.53
1:U:328:GLU:OE1	1:U:328:GLU:CA	2.56	0.53
1:V:354:GLY:C	1:W:328:GLU:HG3	2.29	0.53
1:W:152:ILE:HD13	1:W:152:ILE:N	2.23	0.53
1:W:532:ALA:HB1	1:X:593:LYS:HE2	1.91	0.53
1:Y:495:PHE:HB3	1:Y:514:LEU:HD11	1.89	0.53
1:Z:794:LYS:O	1:Z:798:MET:HG2	2.09	0.53
1:A:171:ASN:O	1:A:216:VAL:HG12	2.53	0.53
1:C:130:GLU:CB	1:C:136:LYS:HA	2.56	0.53
1:D:729:ARG:HH11	1:D:729:ARG:HB2	1.74	0.53
1:E:752:ALA:HA	1:E:755:THR:HG22	2.25	0.53
1:F:337:LEU:HG	1:F:353:ALA:O	4.46	0.53
1:F:359:ILE:CD1	1:F:359:ILE:N	2.72	0.53
1:G:63:ASN:O	1:G:111:PRO:HG3	2.09	0.53
1:H:260:VAL:HB	1:H:263:VAL:CA	2.37	0.53
1:H:229:LEU:HD23	1:H:266:GLU:HA	1.89	0.53
1:H:20:ASP:HB2	1:H:49:ARG:HD3	2.06	0.53
1:H:745:LYS:HE2	1:I:753:ILE:CD1	3.03	0.53
1:I:217:ASP:OD1	1:I:257:GLU:O	2.27	0.53
1:I:249:TRP:N	1:I:249:TRP:CD1	2.77	0.53
1:I:481:VAL:HG21	1:I:487:VAL:HG13	2.03	0.53
1:J:174:LEU:HB2	1:J:198:VAL:HB	1.90	0.53
1:K:243:HIS:NE2	1:K:249:TRP:CE2	2.77	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:327:SER:CB	1:K:331:GLY:HA3	2.52	0.53
1:K:526:VAL:HG22	1:K:540:GLN:HG2	1.89	0.53
1:L:174:LEU:CB	1:L:198:VAL:HB	2.56	0.53
1:L:311:GLN:HB2	1:L:314:GLU:CG	2.39	0.53
1:L:335:LYS:NZ	1:L:335:LYS:HB2	2.34	0.53
1:N:704:LYS:HD2	1:O:712:MET:HB3	1.91	0.53
1:P:46:ALA:N	1:P:47:PRO:HD3	2.24	0.53
1:R:224:LYS:O	1:R:272:PRO:HD3	2.09	0.53
1:T:217:ASP:OD1	1:T:257:GLU:O	2.27	0.53
1:T:327:SER:H	1:T:331:GLY:HA3	1.73	0.53
1:T:522:PHE:CD2	1:T:522:PHE:C	2.82	0.53
1:U:273:ILE:HG13	1:U:308:PHE:HB3	1.89	0.53
1:V:408:LEU:H	1:V:408:LEU:HD12	1.73	0.53
1:X:179:ARG:NH2	1:X:209:PHE:O	2.42	0.53
1:Y:221:LEU:HD22	1:Y:256:THR:HG21	1.90	0.53
1:Y:16:ILE:HA	1:Y:34:THR:OG1	2.08	0.53
1:A:523:PHE:CD1	1:A:568:VAL:HG12	2.44	0.53
1:B:90:ILE:HD12	1:B:154:GLN:CB	5.85	0.53
1:D:196:TRP:HA	1:D:196:TRP:CE3	2.47	0.53
1:D:394:LYS:HG2	1:E:329:GLN:CG	2.57	0.53
1:D:551:ASN:HB3	1:D:554:ASP:HB2	2.65	0.53
1:E:335:LYS:HB3	1:E:372:GLU:O	2.09	0.53
1:E:398:VAL:N	1:F:384:GLN:OE1	2.41	0.53
1:F:311:GLN:N	1:F:314:GLU:HG3	2.23	0.53
1:F:337:LEU:H	1:F:337:LEU:HD23	1.73	0.53
1:F:381:PRO:HA	1:F:405:THR:CB	2.38	0.53
1:F:75:PHE:CZ	1:F:77:ILE:HG23	3.40	0.53
1:I:279:ARG:O	1:I:323:VAL:N	2.50	0.53
1:J:30:VAL:HG13	1:J:74:LEU:HD11	1.90	0.53
1:K:415:TRP:CZ3	1:K:417:LYS:HB3	2.43	0.53
1:M:803:GLY:CA	1:M:806:THR:HB	2.47	0.53
1:M:535:ALA:HA	1:N:658:VAL:HG21	1.91	0.53
1:O:135:ASP:C	1:O:136:LYS:HG3	2.30	0.53
1:P:508:PRO:O	1:P:509:HIS:CD2	2.62	0.53
1:P:506:LYS:HE2	1:P:524:THR:O	2.09	0.53
1:Q:251:VAL:HG23	1:Q:254:GLN:NE2	2.23	0.53
1:Q:279:ARG:HG3	1:Q:280:HIS:CD2	2.43	0.53
1:Q:402:ILE:HD12	1:Q:402:ILE:O	2.09	0.53
1:Q:517:LEU:O	1:Q:545:TRP:HH2	1.92	0.53
1:T:115:VAL:HA	1:T:147:GLY:O	2.09	0.53
1:T:90:ILE:HD12	1:T:154:GLN:HB3	1.91	0.53
1:V:159:VAL:HG12	1:V:160:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:226:ALA:HB3	1:V:270:VAL:HG13	1.91	0.53
1:V:332:LEU:HD23	1:V:358:LEU:CD1	2.39	0.53
1:W:522:PHE:O	1:W:522:PHE:HD2	1.90	0.53
1:X:687:ARG:HG2	1:X:691:GLN:HE21	1.74	0.53
1:Y:166:THR:HA	1:Y:202:GLY:HA2	1.91	0.53
1:Z:191:VAL:HG12	1:Z:194:GLU:HB2	1.91	0.53
1:A:228:HIS:NE2	1:A:248:GLU:OE1	3.25	0.53
1:A:332:LEU:HG	1:A:360:ARG:HB2	1.91	0.53
1:B:164:GLN:NE2	1:B:204:TYR:HB2	2.24	0.53
1:D:476:LYS:HE2	1:E:485:GLU:CG	2.48	0.53
1:C:532:ALA:HB1	1:D:593:LYS:HE2	1.97	0.53
1:E:154:GLN:HG3	1:E:155:LYS:N	2.24	0.53
1:E:235:PHE:CZ	1:E:264:TYR:CE1	2.97	0.53
1:E:285:LEU:HB2	1:E:315:ARG:HG2	2.07	0.53
1:E:284:ILE:HD13	1:E:300:ARG:O	2.30	0.53
1:E:382:LEU:HD11	1:E:388:ILE:HG12	2.14	0.53
1:F:279:ARG:O	1:F:323:VAL:N	2.36	0.53
1:F:752:ALA:O	1:F:756:GLU:HB2	2.08	0.53
1:G:522:PHE:C	1:G:522:PHE:CD2	2.83	0.53
1:G:762:VAL:HG12	1:H:768:MET:HE2	2.85	0.53
1:H:388:ILE:O	1:H:388:ILE:HD12	2.31	0.53
1:H:587:THR:HG23	1:H:590:ASP:HB2	1.89	0.53
1:H:579:VAL:CG1	1:H:599:ILE:HD12	3.07	0.53
1:H:60:ILE:O	1:H:60:ILE:CD1	3.21	0.53
1:I:1:MET:O	1:I:2:ALA:HB2	2.12	0.53
1:H:396:GLY:CA	1:I:405:THR:HG23	2.39	0.53
1:J:698:GLU:HA	1:J:698:GLU:OE2	2.56	0.53
1:K:273:ILE:HD13	1:K:316:LEU:CD1	2.95	0.53
1:L:18:VAL:H	1:L:48:VAL:CG1	2.20	0.53
1:M:239:ARG:NH2	1:M:257:GLU:HG2	2.24	0.53
1:L:354:GLY:C	1:M:328:GLU:HG3	2.29	0.53
1:N:279:ARG:O	1:N:323:VAL:N	2.38	0.53
1:N:5:GLU:HG2	1:N:43:VAL:CG2	2.39	0.53
1:O:291:ASP:C	1:O:293:LYS:H	2.12	0.53
1:O:92:LEU:HD12	1:O:94:GLN:NE2	2.23	0.53
1:P:472:ASP:HA	1:P:493:GLU:HB3	1.91	0.53
1:R:115:VAL:N	1:R:118:ASN:ND2	2.55	0.53
1:Q:338:GLN:OE1	1:R:278:PRO:HB3	2.08	0.53
1:S:146:GLU:HA	1:S:146:GLU:OE1	2.08	0.53
1:T:281:TYR:O	1:T:282:CYS:HB3	2.09	0.53
1:T:332:LEU:HD11	1:T:379:ALA:HB2	1.90	0.53
1:T:623:ARG:CG	1:T:624:ASP:H	2.21	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:223:GLU:HA	1:U:223:GLU:OE2	2.08	0.53
1:V:522:PHE:CD2	1:V:522:PHE:C	2.82	0.53
1:V:564:VAL:HG22	1:V:631:ASN:HB3	1.91	0.53
1:W:130:GLU:CB	1:W:136:LYS:HA	2.38	0.53
1:W:387:GLY:CA	1:W:402:ILE:HG22	2.39	0.53
1:X:191:VAL:CG1	1:X:192:THR:N	2.71	0.53
1:X:311:GLN:HB2	1:X:314:GLU:CG	2.39	0.53
1:X:627:VAL:HG13	1:X:634:VAL:HG22	1.91	0.53
1:W:704:LYS:CD	1:X:712:MET:HB3	2.39	0.53
1:Y:15:TYR:CE2	1:Y:17:HIS:HB3	2.44	0.53
1:Z:120:ALA:O	1:Z:161:GLU:HA	2.09	0.53
1:A:385:ASN:OD1	1:Z:474:ARG:HA	276.80	0.53
1:Z:18:VAL:CG1	1:Z:48:VAL:HG22	2.29	0.53
1:Z:591:PHE:HZ	1:Z:599:ILE:HD11	1.74	0.53
1:Z:606:PHE:HA	1:Z:622:ALA:HA	1.91	0.53
1:A:660:LEU:HA	1:A:663:GLU:HB3	2.26	0.52
1:B:339:PRO:HD2	1:B:370:LYS:HB3	2.07	0.52
1:A:534:HIS:CD2	1:B:654:LEU:HG	2.44	0.52
1:C:249:TRP:CD1	1:C:249:TRP:N	2.77	0.52
1:C:419:LEU:CD2	1:C:422:GLY:H	2.24	0.52
1:E:569:GLY:O	1:E:573:LYS:HB2	2.10	0.52
1:E:65:VAL:HG12	1:E:110:THR:HG22	1.91	0.52
1:F:234:ASN:N	1:F:234:ASN:HD22	2.16	0.52
1:F:600:ARG:CZ	1:F:622:ALA:HB3	2.38	0.52
1:E:745:LYS:CG	1:F:753:ILE:HD11	2.79	0.52
1:G:476:LYS:HE2	1:H:485:GLU:CG	2.93	0.52
1:G:762:VAL:HG12	1:H:768:MET:CE	3.03	0.52
1:G:60:ILE:HD11	1:G:95:ASP:O	2.33	0.52
1:H:192:THR:HG23	1:I:202:GLY:HA3	1.89	0.52
1:H:2:ALA:HB3	1:H:46:ALA:O	2.13	0.52
1:H:90:ILE:HD12	1:H:90:ILE:O	2.09	0.52
1:I:119:THR:HG23	1:I:163:ILE:HG23	2.06	0.52
1:I:239:ARG:HH21	1:I:257:GLU:HG2	1.74	0.52
1:I:558:ALA:O	1:I:561:LEU:HB2	2.09	0.52
1:J:288:MET:HE1	1:J:294:ASN:HD21	1.73	0.52
1:J:319:GLY:C	1:J:320:ILE:HD13	5.36	0.52
1:J:337:LEU:HG	1:J:354:GLY:H	1.72	0.52
1:J:627:VAL:HG13	1:J:634:VAL:HG22	1.90	0.52
1:K:330:GLN:OE1	1:K:330:GLN:HA	2.25	0.52
1:K:379:ALA:HB2	1:K:407:MET:HB3	2.06	0.52
1:O:175:ARG:HE	1:O:263:VAL:CG2	2.12	0.52
1:P:68:ASP:HA	1:P:90:ILE:HA	1.90	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:92:LEU:HB2	1:P:94:GLN:HG2	1.91	0.52
1:R:382:LEU:HD13	1:R:387:GLY:HA2	1.91	0.52
1:S:194:GLU:HG2	1:S:195:GLU:N	2.23	0.52
1:U:333:LEU:HB2	1:U:359:ILE:HD12	1.91	0.52
1:V:190:ARG:O	1:V:191:VAL:HG23	2.08	0.52
1:V:328:GLU:HA	1:V:362:PRO:HA	1.91	0.52
1:W:320:ILE:HD12	1:W:320:ILE:O	2.09	0.52
1:V:398:VAL:HB	1:W:384:GLN:HE22	1.75	0.52
1:X:452:ARG:HH11	1:X:452:ARG:HG3	1.74	0.52
1:Y:174:LEU:HB3	1:Y:198:VAL:HB	1.91	0.52
1:X:356:CYS:N	1:Y:328:GLU:OE2	2.42	0.52
1:Y:419:LEU:CG	1:Y:420:PRO:HD2	2.34	0.52
1:Y:485:GLU:HG2	1:Y:486:LEU:N	2.23	0.52
1:A:183:PHE:HE2	1:A:188:LYS:HA	1.75	0.52
1:A:180:LYS:HD2	1:A:208:VAL:HG12	1.93	0.52
1:B:20:ASP:CB	1:B:49:ARG:CD	3.62	0.52
1:B:8:ILE:HG22	1:B:40:ASN:ND2	2.42	0.52
1:C:100:TYR:HD2	1:C:101:PRO:HD3	1.73	0.52
1:C:465:ASN:HD22	1:C:520:PRO:HD2	1.94	0.52
1:C:681:GLU:HG3	1:C:685:ARG:HH21	2.54	0.52
1:E:20:ASP:HB2	1:E:49:ARG:HD3	1.92	0.52
1:E:383:ASP:OD1	1:E:383:ASP:N	2.67	0.52
1:E:497:VAL:HG12	1:E:498:LEU:H	1.73	0.52
1:E:532:ALA:HB1	1:F:593:LYS:HE2	1.96	0.52
1:F:468:VAL:HG12	1:F:469:GLN:N	2.30	0.52
1:F:601:MET:HG2	1:F:622:ALA:CB	2.28	0.52
1:G:32:PRO:HG2	1:H:11:PRO:HG3	2.61	0.52
1:G:337:LEU:HG	1:G:353:ALA:O	4.55	0.52
1:G:32:PRO:HG2	1:H:11:PRO:HG2	1.91	0.52
1:H:1:MET:O	1:H:2:ALA:HB2	2.10	0.52
1:H:333:LEU:O	1:H:359:ILE:HD13	2.47	0.52
1:I:182:CYS:SG	1:I:208:VAL:CG2	2.97	0.52
1:J:701:LYS:HG3	1:K:709:LEU:HD13	1.91	0.52
1:K:137:VAL:CG2	1:K:138:MET:N	2.72	0.52
1:K:175:ARG:HA	1:K:196:TRP:O	2.28	0.52
1:K:273:ILE:HG13	1:K:308:PHE:HB3	2.05	0.52
1:L:517:LEU:H	1:L:517:LEU:HD12	1.74	0.52
1:L:676:GLU:OE1	1:L:676:GLU:HA	2.19	0.52
1:M:311:GLN:HB3	1:M:312:PRO:CD	2.34	0.52
1:M:382:LEU:HB2	1:M:404:SER:O	2.09	0.52
1:N:129:PHE:O	1:N:130:GLU:HG2	2.10	0.52
1:P:174:LEU:HB2	1:P:198:VAL:HB	1.90	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:260:VAL:N	1:P:261:PRO:HD3	2.23	0.52
1:S:332:LEU:HD23	1:S:358:LEU:HD11	1.91	0.52
1:S:653:ALA:HB3	1:T:662:ILE:HD13	1.90	0.52
1:T:20:ASP:OD1	1:U:8:ILE:CD1	2.57	0.52
1:T:176:LEU:HD23	1:T:211:GLU:HA	1.91	0.52
1:V:106:GLU:O	1:V:107:LYS:HD2	2.09	0.52
1:V:340:LEU:HG	1:V:353:ALA:H	1.73	0.52
1:V:533:ASP:OD1	1:V:587:THR:HA	2.09	0.52
1:V:77:ILE:HG13	1:V:80:GLN:H	1.74	0.52
1:V:745:LYS:HG3	1:W:753:ILE:HD13	1.91	0.52
1:Y:129:PHE:O	1:Y:130:GLU:HG2	2.09	0.52
1:Z:14:HIS:HB3	1:Z:56:ARG:HB2	1.89	0.52
1:Z:213:LEU:CD1	1:Z:214:ASP:H	2.22	0.52
1:Z:284:ILE:N	1:Z:284:ILE:HD13	2.24	0.52
1:Z:46:ALA:N	1:Z:47:PRO:HD3	2.23	0.52
1:A:381:PRO:CA	1:A:405:THR:HG22	2.30	0.52
1:A:64:PRO:HA	1:A:111:PRO:HD2	1.91	0.52
1:B:599:ILE:HD12	1:B:599:ILE:N	2.24	0.52
1:D:122:HIS:HB3	1:D:159:VAL:HB	1.92	0.52
1:C:245:THR:O	1:D:221:LEU:HD23	2.26	0.52
1:D:564:VAL:HG22	1:D:631:ASN:ND2	2.35	0.52
1:D:600:ARG:O	1:D:604:PHE:HD1	2.18	0.52
1:E:182:CYS:SG	1:E:208:VAL:HB	2.78	0.52
1:F:129:PHE:CE2	1:F:139:ALA:HA	2.81	0.52
1:F:123:LEU:HA	1:F:158:GLU:HA	1.91	0.52
1:F:276:LEU:O	1:F:277:GLY:C	2.53	0.52
1:G:15:TYR:CE2	1:G:17:HIS:HB3	2.45	0.52
1:G:279:ARG:HA	1:G:323:VAL:HG22	1.91	0.52
1:G:276:LEU:N	1:G:280:HIS:HB2	2.24	0.52
1:G:495:PHE:HB3	1:G:514:LEU:HD11	1.91	0.52
1:G:394:LYS:CG	1:H:329:GLN:HG3	2.67	0.52
1:I:551:ASN:HB3	1:I:554:ASP:CB	2.54	0.52
1:I:591:PHE:HZ	1:I:599:ILE:HD11	1.74	0.52
1:J:395:THR:HB	1:J:397:LYS:H	1.92	0.52
1:K:108:ASP:OD1	1:K:108:ASP:N	2.50	0.52
1:K:417:LYS:O	1:K:418:GLU:HB2	2.09	0.52
1:L:191:VAL:HG12	1:L:194:GLU:HB2	1.97	0.52
1:L:327:SER:N	1:L:331:GLY:HA3	2.96	0.52
1:L:342:GLU:HA	1:L:350:SER:HA	1.91	0.52
1:L:415:TRP:CH2	1:L:417:LYS:HB3	2.45	0.52
1:M:601:MET:HG2	1:M:622:ALA:CB	2.39	0.52
1:M:560:LYS:HD2	1:M:630:GLN:O	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:189:GLY:O	1:O:190:ARG:HB3	2.08	0.52
1:P:224:LYS:O	1:P:272:PRO:HD3	2.08	0.52
1:Q:337:LEU:N	1:Q:337:LEU:HD23	2.25	0.52
1:Q:354:GLY:HA3	1:R:328:GLU:HG3	1.91	0.52
1:R:573:LYS:HE3	1:S:522:PHE:CZ	2.44	0.52
1:S:802:LEU:HD12	1:S:806:THR:HG22	1.91	0.52
1:T:130:GLU:HB3	1:T:136:LYS:HA	1.89	0.52
1:V:24:ASN:ND2	1:V:30:VAL:HB	2.19	0.52
1:V:19:LEU:HA	1:V:32:PRO:CB	2.39	0.52
1:W:151:TYR:HD2	1:W:152:ILE:HD13	1.73	0.52
1:Y:30:VAL:HG13	1:Y:74:LEU:HD11	1.92	0.52
1:Y:18:VAL:CG1	1:Y:48:VAL:HG22	2.33	0.52
1:Y:766:ARG:HG3	1:Z:772:TYR:CD1	2.44	0.52
1:Z:766:ARG:O	1:Z:770:LEU:HB2	2.09	0.52
1:Z:90:ILE:HD13	1:Z:90:ILE:H	1.73	0.52
1:A:65:VAL:CG1	1:A:110:THR:HG22	2.57	0.52
1:A:326:LEU:HD21	1:A:333:LEU:HG	1.91	0.52
1:B:175:ARG:HG3	1:B:215:LEU:HD23	1.92	0.52
1:B:563:SER:HB3	1:C:520:PRO:HG3	1.92	0.52
1:C:15:TYR:CE2	1:C:17:HIS:HB3	2.44	0.52
1:B:354:GLY:O	1:C:328:GLU:HB3	3.54	0.52
1:C:330:GLN:OE1	1:C:330:GLN:HA	2.44	0.52
1:C:335:LYS:HB2	1:C:335:LYS:HZ3	2.07	0.52
1:C:360:ARG:HG3	1:C:361:GLY:N	2.46	0.52
1:C:529:ILE:CD1	1:C:537:LEU:HB2	2.39	0.52
1:D:398:VAL:HG11	1:D:415:TRP:CD2	2.49	0.52
1:D:692:LYS:HG2	1:D:696:GLN:HE21	1.75	0.52
1:E:113:GLN:O	1:E:114:VAL:HG13	2.22	0.52
1:E:115:VAL:N	1:E:118:ASN:ND2	2.67	0.52
1:E:296:LEU:HD22	1:E:296:LEU:N	2.45	0.52
1:E:60:ILE:HG22	1:E:66:SER:HA	2.05	0.52
1:F:176:LEU:HB2	1:F:196:TRP:CB	2.68	0.52
1:F:327:SER:HB2	1:F:331:GLY:N	2.83	0.52
1:H:90:ILE:HD12	1:H:154:GLN:CB	5.66	0.52
1:I:363:LEU:CD1	1:I:364:GLU:H	2.21	0.52
1:J:276:LEU:N	1:J:280:HIS:HB2	2.24	0.52
1:J:284:ILE:HD12	1:J:287:PRO:HB3	4.82	0.52
1:J:662:ILE:O	1:J:666:THR:HB	2.09	0.52
1:K:54:PRO:CB	1:K:55:PRO:HD3	2.41	0.52
1:L:176:LEU:HB2	1:L:196:TRP:CB	2.58	0.52
1:L:389:TYR:CE1	1:L:457:VAL:HA	2.45	0.52
1:L:752:ALA:O	1:L:756:GLU:HB2	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:251:VAL:HG23	1:O:254:GLN:NE2	2.24	0.52
1:O:30:VAL:HG13	1:O:74:LEU:HD11	1.90	0.52
1:P:183:PHE:HA	1:P:190:ARG:HD3	1.91	0.52
1:P:70:GLN:HE21	1:P:104:VAL:HG12	1.73	0.52
1:R:338:GLN:CB	1:R:339:PRO:HD3	2.40	0.52
1:R:77:ILE:HG13	1:R:79:GLY:HA3	1.88	0.52
1:T:58:TYR:CD1	1:T:99:LEU:HD12	2.43	0.52
1:U:526:VAL:HG22	1:U:540:GLN:HG2	1.92	0.52
1:U:5:GLU:HG2	1:U:43:VAL:CG2	2.39	0.52
1:W:332:LEU:HD13	1:W:377:ARG:HG2	1.90	0.52
1:X:770:LEU:HD11	1:X:774:ARG:NH2	2.15	0.52
1:Z:5:GLU:CG	1:Z:43:VAL:HG21	2.38	0.52
1:Z:591:PHE:CZ	1:Z:599:ILE:HD11	2.44	0.52
1:A:319:GLY:C	1:A:320:ILE:HD13	2.30	0.52
1:B:215:LEU:HD12	1:B:259:HIS:NE2	2.62	0.52
1:B:234:ASN:HD22	1:B:234:ASN:N	2.29	0.52
1:B:340:LEU:HD23	1:B:353:ALA:H	1.75	0.52
1:B:36:ILE:HG13	1:B:36:ILE:O	2.10	0.52
1:C:121:LEU:HD12	1:C:145:PHE:HD2	1.93	0.52
1:C:122:HIS:CE1	1:C:207:ALA:HB1	2.75	0.52
1:C:154:GLN:HG3	1:C:155:LYS:HZ1	2.22	0.52
1:C:70:GLN:HE21	1:C:104:VAL:HG12	1.89	0.52
1:D:243:HIS:NE2	1:D:249:TRP:CD2	2.87	0.52
1:E:164:GLN:CD	1:E:204:TYR:HB3	4.13	0.52
1:E:276:LEU:O	1:E:277:GLY:C	2.55	0.52
1:F:383:ASP:OD1	1:F:383:ASP:N	2.55	0.52
1:F:580:ARG:HD2	1:G:640:VAL:O	2.59	0.52
1:F:591:PHE:CZ	1:F:599:ILE:HD11	2.45	0.52
1:G:310:LEU:H	1:G:310:LEU:HD12	1.73	0.52
1:H:398:VAL:HG11	1:H:415:TRP:CD2	2.44	0.52
1:H:527:ILE:HD11	1:H:539:LEU:HB2	1.92	0.52
1:H:542:ALA:HB3	1:H:639:ASP:HB2	1.92	0.52
1:I:653:ALA:HA	1:I:656:ARG:NH2	2.35	0.52
1:I:744:ALA:HA	1:I:747:LYS:HB2	1.91	0.52
1:J:180:LYS:O	1:J:182:CYS:N	2.43	0.52
1:K:120:ALA:O	1:K:161:GLU:HA	2.21	0.52
1:K:13:TYR:O	1:K:36:ILE:HD13	2.23	0.52
1:K:419:LEU:HG	1:K:420:PRO:CD	2.27	0.52
1:K:46:ALA:H	1:K:47:PRO:HD3	1.73	0.52
1:K:68:ASP:O	1:K:69:THR:HB	2.09	0.52
1:L:123:LEU:HA	1:L:158:GLU:HA	2.18	0.52
1:L:15:TYR:CE2	1:L:17:HIS:HB3	2.56	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:243:HIS:NE2	1:L:249:TRP:CE2	2.88	0.52
1:L:398:VAL:HG12	1:L:491:PRO:HB3	2.48	0.52
1:M:10:ILE:CG2	1:M:11:PRO:HD2	2.44	0.52
1:M:766:ARG:HD2	1:N:768:MET:CE	2.39	0.52
1:M:92:LEU:HB2	1:M:94:GLN:HG2	1.92	0.52
1:N:132:LYS:HG3	1:N:133:ASN:H	1.75	0.52
1:N:215:LEU:HD12	1:N:259:HIS:NE2	2.24	0.52
1:N:332:LEU:HD23	1:N:358:LEU:HD11	1.91	0.52
1:O:18:VAL:H	1:O:48:VAL:CG1	2.19	0.52
1:O:579:VAL:HG13	1:O:599:ILE:CD1	2.40	0.52
1:P:154:GLN:HG3	1:P:155:LYS:N	2.24	0.52
1:Q:279:ARG:O	1:Q:323:VAL:N	2.34	0.52
1:R:506:LYS:HE2	1:R:524:THR:O	2.10	0.52
1:X:333:LEU:HB2	1:X:359:ILE:HD11	1.91	0.52
1:Y:234:ASN:ND2	1:Y:245:THR:H	2.07	0.52
1:Z:662:ILE:O	1:Z:666:THR:HB	2.10	0.52
1:A:70:GLN:HB3	1:A:104:VAL:O	4.50	0.52
1:A:224:LYS:HA	1:A:272:PRO:HG3	1.96	0.52
1:B:256:THR:HG23	1:B:256:THR:O	2.12	0.52
1:B:18:VAL:O	1:B:32:PRO:HB3	2.25	0.52
1:B:7:ILE:O	1:B:41:GLU:HG3	2.38	0.52
1:C:396:GLY:HA3	1:D:405:THR:HG23	2.12	0.52
1:D:177:ARG:HD3	1:D:195:GLU:OE2	2.61	0.52
1:D:1:MET:O	1:D:2:ALA:HB2	2.12	0.52
1:D:342:GLU:HA	1:D:350:SER:HA	1.90	0.52
1:D:600:ARG:NH1	1:D:622:ALA:HB3	2.25	0.52
1:E:687:ARG:O	1:E:691:GLN:HG3	2.13	0.52
1:F:563:SER:HB3	1:G:520:PRO:HG2	2.21	0.52
1:G:355:ASP:HA	1:H:328:GLU:OE1	2.09	0.52
1:G:481:VAL:HG11	1:G:487:VAL:HG13	1.92	0.52
1:H:123:LEU:CD2	1:H:143:TRP:HB2	2.85	0.52
1:G:245:THR:O	1:H:221:LEU:HD23	2.67	0.52
1:H:558:ALA:O	1:H:561:LEU:HB2	2.08	0.52
1:I:185:ARG:HH22	1:I:207:ALA:HB3	1.74	0.52
1:I:196:TRP:HA	1:I:196:TRP:CE3	2.44	0.52
1:I:252:THR:O	1:I:254:GLN:N	2.60	0.52
1:I:549:LEU:HD12	1:I:552:ARG:HA	1.92	0.52
1:J:14:HIS:ND1	1:J:36:ILE:HG22	2.89	0.52
1:J:494:GLN:NE2	1:J:494:GLN:HA	2.24	0.52
1:K:1:MET:O	1:K:2:ALA:HB2	2.11	0.52
1:K:330:GLN:CB	1:K:379:ALA:HB3	2.43	0.52
1:K:395:THR:HB	1:K:397:LYS:H	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:715:ALA:HA	1:L:724:ALA:HB1	2.17	0.52
1:L:244:ARG:O	1:L:247:GLU:HB2	2.27	0.52
1:L:601:MET:HE3	1:L:606:PHE:HB3	1.91	0.52
1:O:70:GLN:HB3	1:O:104:VAL:O	2.09	0.52
1:O:172:GLN:CG	1:O:216:VAL:HG12	2.40	0.52
1:P:175:ARG:HH21	1:P:263:VAL:HG13	1.75	0.52
1:P:338:GLN:HB3	1:P:339:PRO:HD3	1.88	0.52
1:R:419:LEU:HD23	1:R:422:GLY:H	1.74	0.52
1:R:30:VAL:HG22	1:R:74:LEU:HD11	1.91	0.52
1:R:766:ARG:O	1:R:770:LEU:HB2	2.09	0.52
1:S:221:LEU:HD22	1:S:256:THR:HB	1.92	0.52
1:S:4:GLU:OE2	1:S:6:ALA:HB2	2.10	0.52
1:T:32:PRO:HG2	1:U:11:PRO:HG3	1.91	0.52
1:T:9:ARG:NH1	1:T:36:ILE:HA	2.19	0.52
1:T:3:THR:CG2	1:T:50:MET:CE	2.86	0.52
1:U:184:ASP:OD2	1:U:209:PHE:HZ	1.92	0.52
1:U:19:LEU:HD23	1:U:32:PRO:HB2	1.92	0.52
1:U:511:ARG:HH22	1:U:517:LEU:HD21	1.74	0.52
1:V:171:ASN:O	1:V:216:VAL:HA	2.10	0.52
1:V:407:MET:N	1:V:407:MET:SD	2.77	0.52
1:V:527:ILE:CD1	1:V:539:LEU:HB2	2.40	0.52
1:Y:122:HIS:O	1:Y:159:VAL:N	2.36	0.52
1:Y:36:ILE:HG21	1:Y:99:LEU:HB2	1.90	0.52
1:Z:648:GLN:CA	1:Z:648:GLN:HE21	2.22	0.52
1:A:182:CYS:SG	1:A:208:VAL:HG23	2.50	0.52
1:A:18:VAL:HG23	1:A:33:LYS:O	2.10	0.52
1:B:67:ARG:NH2	1:B:107:LYS:HA	2.11	0.52
1:B:343:GLY:HA2	1:B:348:LYS:HA	2.48	0.52
1:B:719:THR:HG22	1:C:728:SER:HA	1.91	0.52
1:C:14:HIS:NE2	1:C:16:ILE:CD1	3.97	0.52
1:C:310:LEU:HD21	1:C:316:LEU:HG	1.92	0.52
1:C:326:LEU:CD1	1:C:359:ILE:HD12	6.43	0.52
1:C:327:SER:CA	1:C:331:GLY:HA3	2.40	0.52
1:B:589:ASP:HB2	1:C:665:THR:HG21	1.92	0.52
1:C:696:GLN:O	1:C:699:ALA:HB3	2.65	0.52
1:C:712:MET:O	1:C:716:VAL:HG23	2.15	0.52
1:C:796:LYS:HA	1:C:799:THR:CG2	2.39	0.52
1:D:13:TYR:O	1:D:36:ILE:CD1	4.44	0.52
1:D:60:ILE:HD11	1:D:95:ASP:C	2.29	0.52
1:E:243:HIS:NE2	1:E:249:TRP:CD2	2.88	0.52
1:E:302:VAL:HG21	1:E:308:PHE:HE2	1.75	0.52
1:E:360:ARG:CG	1:E:361:GLY:N	2.92	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:332:LEU:HG	1:F:360:ARG:HB2	1.91	0.52
1:F:550:LYS:HG3	1:F:551:ASN:H	1.75	0.52
1:G:181:GLU:HB3	1:H:116:LEU:HD13	1.91	0.52
1:G:408:LEU:HD12	1:G:408:LEU:H	2.05	0.52
1:G:485:GLU:HG2	1:G:486:LEU:N	2.54	0.52
1:G:532:ALA:HB2	1:G:584:ALA:O	2.30	0.52
1:H:115:VAL:HA	1:H:147:GLY:O	2.44	0.52
1:J:65:VAL:HG12	1:J:110:THR:CG2	2.40	0.52
1:J:152:ILE:N	1:J:152:ILE:HD13	2.62	0.52
1:J:196:TRP:CE3	1:J:196:TRP:HA	2.44	0.52
1:J:65:VAL:HG12	1:J:110:THR:HG22	1.91	0.52
1:J:589:ASP:HB2	1:K:665:THR:HG21	2.17	0.52
1:L:167:VAL:HG13	1:L:202:GLY:H	1.74	0.52
1:L:175:ARG:HH21	1:L:263:VAL:HG13	1.87	0.52
1:L:286:ASP:HB3	1:L:296:LEU:HA	2.12	0.52
1:L:594:ASN:CB	1:L:598:ILE:HD13	2.40	0.52
1:L:64:PRO:HA	1:L:111:PRO:HD2	1.98	0.52
1:K:708:GLU:HG3	1:L:716:VAL:HG11	2.00	0.52
1:L:766:ARG:HD2	1:M:768:MET:HE1	2.12	0.52
1:M:194:GLU:HG2	1:M:195:GLU:N	2.33	0.52
1:M:221:LEU:CD2	1:M:256:THR:CG2	2.89	0.52
1:M:273:ILE:HG12	1:M:310:LEU:CD1	3.07	0.52
1:L:745:LYS:HG3	1:M:753:ILE:HD13	2.25	0.52
1:O:425:GLU:H	1:O:425:GLU:CD	2.12	0.52
1:P:402:ILE:O	1:P:402:ILE:HD12	2.08	0.52
1:P:662:ILE:O	1:P:666:THR:HB	2.10	0.52
1:Q:382:LEU:H	1:Q:405:THR:CG2	2.21	0.52
1:Q:545:TRP:HB2	1:Q:633:LEU:HD21	1.90	0.52
1:R:402:ILE:HD12	1:R:402:ILE:O	2.10	0.52
1:S:221:LEU:HD21	1:S:256:THR:CG2	2.36	0.52
1:T:191:VAL:HG12	1:T:194:GLU:HB2	1.91	0.52
1:T:251:VAL:HG23	1:T:254:GLN:HE21	1.74	0.52
1:T:336:ALA:HA	1:T:356:CYS:CB	2.40	0.52
1:U:46:ALA:N	1:U:47:PRO:HD3	2.24	0.52
1:W:230:ARG:HG2	1:W:248:GLU:HG2	1.91	0.52
1:W:709:LEU:HA	1:W:712:MET:HE3	1.90	0.52
1:Z:129:PHE:O	1:Z:130:GLU:HG2	2.10	0.52
1:Z:354:GLY:O	1:Z:356:CYS:N	2.43	0.52
1:A:19:LEU:HA	1:A:32:PRO:HB2	1.95	0.52
1:B:771:ILE:HA	1:B:774:ARG:NH1	2.57	0.52
1:C:196:TRP:HA	1:C:196:TRP:HE3	1.75	0.52
1:E:5:GLU:OE1	1:E:43:VAL:HG11	2.17	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:566:ASP:OD2	1:E:569:GLY:HA3	2.36	0.52
1:F:223:GLU:HA	1:F:223:GLU:OE2	2.73	0.52
1:G:191:VAL:HG13	1:G:192:THR:H	2.42	0.52
1:G:320:ILE:HD13	1:G:320:ILE:N	2.25	0.52
1:G:606:PHE:HB2	1:G:622:ALA:HA	1.92	0.52
1:H:230:ARG:HB3	1:H:230:ARG:HH11	1.75	0.52
1:I:523:PHE:CD1	1:I:545:TRP:NE1	3.04	0.52
1:I:587:THR:HG23	1:I:590:ASP:HB2	2.11	0.52
1:J:139:ALA:HB3	1:K:148:PRO:HB2	2.32	0.52
1:J:387:GLY:HA3	1:J:402:ILE:HG22	1.98	0.52
1:J:45:PHE:HB2	1:J:48:VAL:HG23	2.09	0.52
1:K:167:VAL:N	1:K:201:VAL:O	5.50	0.52
1:K:416:GLU:HB2	1:K:454:LYS:HB3	1.91	0.52
1:K:734:ARG:HG2	1:L:742:LEU:HD12	1.92	0.52
1:L:578:ARG:HB3	1:L:602:ALA:O	2.28	0.52
1:M:10:ILE:HG23	1:M:11:PRO:HD2	1.99	0.52
1:N:244:ARG:N	1:N:247:GLU:OE1	2.42	0.52
1:N:533:ASP:OD1	1:N:587:THR:HA	2.10	0.52
1:P:116:LEU:CB	1:P:117:PRO:HD2	2.33	0.52
1:P:419:LEU:HD23	1:P:421:SER:H	1.75	0.52
1:O:734:ARG:HG2	1:P:742:LEU:HD12	1.92	0.52
1:Q:68:ASP:O	1:Q:106:GLU:HB2	2.08	0.52
1:Q:17:HIS:CD2	1:Q:18:VAL:HG22	2.45	0.52
1:Q:341:GLU:O	1:Q:341:GLU:OE1	2.27	0.52
1:P:759:LEU:HD13	1:Q:768:MET:HG3	1.90	0.52
1:S:154:GLN:HG3	1:S:155:LYS:NZ	2.22	0.52
1:T:338:GLN:HB2	1:T:339:PRO:HD3	1.92	0.52
1:T:90:ILE:HD13	1:T:90:ILE:N	2.23	0.52
1:U:333:LEU:HB2	1:U:359:ILE:HD11	1.92	0.52
1:W:68:ASP:OD1	1:W:106:GLU:HA	2.10	0.52
1:W:85:HIS:NE2	1:W:102:GLY:HA3	2.25	0.52
1:Y:174:LEU:CB	1:Y:198:VAL:HB	2.40	0.52
1:Y:394:LYS:HG2	1:Z:329:GLN:HG3	1.91	0.52
1:Z:65:VAL:HG12	1:Z:110:THR:HG22	1.92	0.52
1:A:130:GLU:N	1:A:137:VAL:HG13	2.98	0.52
1:A:199:ARG:HH21	1:A:258:ALA:HB3	1.97	0.52
1:A:568:VAL:HG23	1:A:569:GLY:N	2.44	0.52
1:A:662:ILE:CD1	1:M:653:ALA:HB3	177.92	0.52
1:A:67:ARG:HG2	1:A:108:ASP:HA	1.91	0.52
1:B:184:ASP:OD2	1:B:209:PHE:HZ	2.14	0.52
1:B:310:LEU:HD21	1:B:316:LEU:HG	1.91	0.52
1:B:394:LYS:HA	1:C:329:GLN:CD	2.68	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:71:SER:H	1:C:88:GLN:HA	2.37	0.52
1:D:326:LEU:HD13	1:D:360:ARG:HA	1.92	0.52
1:E:29:GLU:O	1:E:84:ARG:HD3	2.34	0.52
1:E:336:ALA:HA	1:E:356:CYS:CB	2.66	0.52
1:E:587:THR:HG23	1:E:590:ASP:HB2	1.91	0.52
1:E:591:PHE:O	1:E:595:SER:N	2.61	0.52
1:E:796:LYS:O	1:E:799:THR:HG22	2.09	0.52
1:E:794:LYS:O	1:E:798:MET:HG2	2.09	0.52
1:F:245:THR:O	1:G:221:LEU:HD23	2.33	0.52
1:G:360:ARG:HG3	1:G:361:GLY:N	2.25	0.52
1:H:123:LEU:CG	1:H:143:TRP:HB2	2.42	0.52
1:H:334:LEU:HD23	1:H:357:TRP:O	2.37	0.52
1:H:533:ASP:CG	1:H:588:PHE:H	2.13	0.52
1:I:180:LYS:C	1:I:182:CYS:N	2.63	0.52
1:I:3:THR:CG2	1:I:50:MET:CE	2.86	0.52
1:I:415:TRP:CH2	1:I:417:LYS:HB3	2.45	0.52
1:I:662:ILE:O	1:I:666:THR:HB	2.14	0.52
1:J:54:PRO:HB2	1:J:55:PRO:CD	2.34	0.52
1:K:14:HIS:HB2	1:K:56:ARG:CB	2.55	0.52
1:K:63:ASN:N	1:K:64:PRO:HD2	2.29	0.52
1:L:426:LEU:HD21	1:L:495:PHE:HE1	1.75	0.52
1:M:243:HIS:NE2	1:M:249:TRP:CD2	2.74	0.52
1:M:326:LEU:CD2	1:M:333:LEU:HG	2.44	0.52
1:M:698:GLU:OE2	1:M:698:GLU:HA	2.32	0.52
1:N:495:PHE:CB	1:N:514:LEU:HD11	2.37	0.52
1:P:115:VAL:H	1:P:118:ASN:HD22	1.57	0.52
1:P:194:GLU:HG2	1:P:195:GLU:H	1.75	0.52
1:O:653:ALA:HB3	1:P:662:ILE:HD11	1.88	0.52
1:R:137:VAL:CG2	1:R:138:MET:N	2.72	0.52
1:Q:573:LYS:HE3	1:R:522:PHE:CZ	2.45	0.52
1:T:64:PRO:HA	1:T:111:PRO:HD2	1.91	0.52
1:U:251:VAL:HG23	1:U:254:GLN:NE2	2.24	0.52
1:U:564:VAL:HG22	1:U:631:ASN:HB3	1.91	0.52
1:V:128:ASP:HB2	1:V:155:LYS:HB3	1.91	0.52
1:V:229:LEU:O	1:V:248:GLU:HA	2.09	0.52
1:W:523:PHE:CE1	1:W:568:VAL:HG12	2.45	0.52
1:W:627:VAL:HG13	1:W:634:VAL:HG22	1.92	0.52
1:W:650:THR:O	1:W:654:LEU:HD13	2.10	0.52
1:X:15:TYR:CE2	1:X:17:HIS:HB3	2.45	0.52
1:Y:67:ARG:HH21	1:Y:107:LYS:HA	1.75	0.52
1:Z:500:LEU:HA	1:Z:566:ASP:OD1	2.10	0.52
1:Z:633:LEU:HD23	1:Z:634:VAL:N	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:194:GLU:HG2	1:A:195:GLU:H	1.74	0.52
1:A:46:ALA:N	1:A:47:PRO:HD3	2.25	0.52
1:A:65:VAL:HG13	1:A:110:THR:HG22	2.51	0.52
1:C:326:LEU:HD13	1:C:360:ARG:HA	1.92	0.52
1:D:24:ASN:ND2	1:D:30:VAL:HB	2.34	0.52
1:D:734:ARG:HH21	1:D:735:ILE:HD13	1.75	0.52
1:E:473:TYR:HE1	1:E:494:GLN:HB2	1.97	0.52
1:F:542:ALA:HB3	1:F:639:ASP:HB2	1.92	0.52
1:G:108:ASP:OD1	1:G:108:ASP:N	2.42	0.52
1:F:580:ARG:HH22	1:G:595:SER:HB2	1.75	0.52
1:G:606:PHE:HA	1:G:622:ALA:HA	2.12	0.52
1:H:339:PRO:HD2	1:H:370:LYS:HB3	2.31	0.52
1:H:532:ALA:HB1	1:I:593:LYS:HE2	2.03	0.52
1:I:175:ARG:HB2	1:I:213:LEU:O	2.27	0.52
1:H:354:GLY:C	1:I:328:GLU:HG3	2.41	0.52
1:J:108:ASP:N	1:J:108:ASP:OD1	2.55	0.52
1:J:121:LEU:HD12	1:J:145:PHE:HD2	1.75	0.52
1:J:332:LEU:HD11	1:J:379:ALA:HB2	1.92	0.52
1:K:10:ILE:CG2	1:K:11:PRO:HD2	2.59	0.52
1:K:183:PHE:HE2	1:K:188:LYS:HA	1.74	0.52
1:L:159:VAL:HG12	1:L:160:VAL:HG22	2.26	0.52
1:L:176:LEU:HD23	1:L:211:GLU:HA	1.92	0.52
1:L:654:LEU:CD1	1:M:662:ILE:HD12	3.24	0.52
1:M:249:TRP:CD1	1:M:249:TRP:N	2.78	0.52
1:M:542:ALA:HB3	1:M:639:ASP:HB2	2.30	0.52
1:M:729:ARG:HB2	1:M:729:ARG:NH1	2.56	0.52
1:O:354:GLY:HA3	1:P:328:GLU:OE2	2.09	0.52
1:P:126:LEU:HB2	1:P:157:VAL:HG23	1.92	0.52
1:Q:168:ILE:HG13	1:Q:172:GLN:OE1	2.11	0.52
1:R:123:LEU:HD11	1:R:143:TRP:CD1	2.44	0.52
1:R:336:ALA:HA	1:R:356:CYS:CB	2.40	0.52
1:T:358:LEU:HD13	1:T:377:ARG:NH1	2.24	0.52
1:U:17:HIS:CD2	1:U:18:VAL:HG22	2.45	0.52
1:V:227:LEU:CB	1:V:251:VAL:HG12	2.40	0.52
1:W:196:TRP:HA	1:W:196:TRP:CE3	2.45	0.52
1:X:268:LEU:HD13	1:X:269:GLY:H	1.75	0.52
1:X:522:PHE:C	1:X:522:PHE:HD2	2.14	0.52
1:X:803:GLY:C	1:X:805:GLY:H	2.13	0.52
1:Y:273:ILE:HG23	1:Y:310:LEU:HD11	1.92	0.52
1:Y:539:LEU:HD22	1:Y:643:VAL:HG22	1.92	0.52
1:Y:518:LEU:HA	1:Y:547:PHE:HD1	1.75	0.52
1:Z:252:THR:O	1:Z:254:GLN:N	2.43	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:545:TRP:HB2	1:Z:633:LEU:HD21	1.91	0.52
1:A:286:ASP:N	1:A:287:PRO:HD3	2.39	0.51
1:A:49:ARG:HH22	1:B:8:ILE:HD13	2.86	0.51
1:A:706:LEU:HD23	1:M:697:SER:HA	176.99	0.51
1:A:762:VAL:O	1:A:766:ARG:HB2	2.10	0.51
1:B:67:ARG:CZ	1:B:108:ASP:HB3	3.36	0.51
1:B:419:LEU:HG	1:B:420:PRO:CD	2.66	0.51
1:C:109:ILE:CD1	1:C:153:PRO:CG	2.88	0.51
1:C:215:LEU:HD12	1:C:259:HIS:NE2	2.72	0.51
1:C:60:ILE:HG22	1:C:66:SER:HB2	2.26	0.51
1:D:220:ILE:HG13	1:D:256:THR:HA	1.91	0.51
1:E:326:LEU:CD2	1:E:333:LEU:HG	2.84	0.51
1:E:490:ASP:O	1:E:492:GLU:N	2.43	0.51
1:E:623:ARG:CG	1:E:624:ASP:N	2.87	0.51
1:G:154:GLN:CG	1:G:155:LYS:HE3	2.89	0.51
1:G:205:LEU:HD22	1:G:211:GLU:HB2	1.91	0.51
1:G:213:LEU:CD1	1:G:214:ASP:H	3.03	0.51
1:G:408:LEU:HD12	1:G:408:LEU:N	2.70	0.51
1:G:61:VAL:HG13	1:G:65:VAL:HG23	1.93	0.51
1:H:130:GLU:CB	1:H:136:LYS:HA	2.65	0.51
1:H:311:GLN:N	1:H:314:GLU:HG3	2.43	0.51
1:I:154:GLN:HG3	1:I:155:LYS:N	2.25	0.51
1:I:17:HIS:CD2	1:I:18:VAL:HG22	2.53	0.51
1:I:226:ALA:HB3	1:I:270:VAL:HG13	1.91	0.51
1:H:338:GLN:OE1	1:I:278:PRO:HB2	2.23	0.51
1:I:396:GLY:CA	1:J:405:THR:HG23	2.39	0.51
1:I:3:THR:CG2	1:I:50:MET:HE1	2.38	0.51
1:I:591:PHE:CZ	1:I:599:ILE:HD11	2.45	0.51
1:J:327:SER:CB	1:J:331:GLY:HA3	2.51	0.51
1:J:476:LYS:HE2	1:K:485:GLU:HG3	2.61	0.51
1:K:262:ASP:HB3	1:K:264:TYR:CZ	2.45	0.51
1:K:326:LEU:HD13	1:K:360:ARG:HA	2.08	0.51
1:M:1:MET:O	1:M:2:ALA:HB2	2.11	0.51
1:M:278:PRO:O	1:M:279:ARG:HB3	2.24	0.51
1:M:347:GLU:O	1:M:349:VAL:HG23	2.26	0.51
1:M:377:ARG:NH1	1:M:408:LEU:O	2.43	0.51
1:N:224:LYS:O	1:N:272:PRO:HD3	2.10	0.51
1:N:29:GLU:O	1:N:84:ARG:NH1	2.41	0.51
1:N:2:ALA:HB3	1:N:46:ALA:O	2.09	0.51
1:O:750:ALA:O	1:O:753:ILE:HG22	2.08	0.51
1:P:245:THR:OG1	1:Q:170:GLN:OE1	2.27	0.51
1:Q:230:ARG:HG2	1:Q:248:GLU:HG2	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:116:LEU:HB3	1:R:117:PRO:CD	2.29	0.51
1:S:60:ILE:HB	1:S:93:ALA:HA	1.92	0.51
1:T:14:HIS:ND1	1:T:36:ILE:HG22	2.25	0.51
1:W:221:LEU:CD2	1:W:256:THR:CB	2.84	0.51
1:W:529:ILE:HG22	1:W:580:ARG:HB2	1.91	0.51
1:W:9:ARG:CZ	1:W:15:TYR:HB3	2.40	0.51
1:X:340:LEU:HG	1:X:353:ALA:H	1.75	0.51
1:Z:14:HIS:HB2	1:Z:56:ARG:HB2	1.92	0.51
1:Z:175:ARG:HG3	1:Z:215:LEU:HD23	1.92	0.51
1:Z:474:ARG:CG	1:Z:492:GLU:HB2	2.40	0.51
1:A:753:ILE:HD11	1:Z:745:LYS:HG3	172.15	0.51
1:A:405:THR:HG23	1:Z:396:GLY:CA	288.17	0.51
1:A:473:TYR:HE1	1:A:494:GLN:HB2	1.75	0.51
1:B:109:ILE:HD12	1:B:153:PRO:HG2	1.92	0.51
1:B:734:ARG:HH21	1:B:735:ILE:HD13	4.67	0.51
1:D:255:ASP:OD2	1:D:257:GLU:HB3	2.75	0.51
1:E:230:ARG:HB3	1:E:230:ARG:HH11	1.76	0.51
1:E:230:ARG:HD3	1:E:246:GLY:O	2.10	0.51
1:F:36:ILE:O	1:F:36:ILE:HG13	4.11	0.51
1:F:4:GLU:OE2	1:F:6:ALA:HB2	2.09	0.51
1:F:465:ASN:HB3	1:F:519:GLY:HA3	1.99	0.51
1:G:311:GLN:N	1:G:314:GLU:HG3	2.25	0.51
1:G:332:LEU:HG	1:G:360:ARG:HB2	1.91	0.51
1:G:473:TYR:HE1	1:G:494:GLN:HB2	1.75	0.51
1:H:130:GLU:HA	1:H:137:VAL:H	2.17	0.51
1:H:175:ARG:NH2	1:H:263:VAL:HG13	2.25	0.51
1:H:660:LEU:HA	1:H:663:GLU:HB2	2.50	0.51
1:H:745:LYS:CE	1:I:753:ILE:CD1	3.34	0.51
1:I:124:LYS:HG2	1:I:157:VAL:O	2.10	0.51
1:I:144:LEU:HG	1:I:145:PHE:N	2.25	0.51
1:I:251:VAL:HG21	1:I:257:GLU:HG2	2.04	0.51
1:I:54:PRO:CB	1:I:55:PRO:HD3	2.39	0.51
1:I:794:LYS:O	1:I:798:MET:HG2	2.40	0.51
1:K:235:PHE:CE1	1:K:237:ASP:HA	2.45	0.51
1:M:571:ALA:O	1:M:575:ILE:HG12	2.09	0.51
1:N:421:SER:O	1:N:423:VAL:N	2.44	0.51
1:O:109:ILE:HD12	1:O:153:PRO:CG	2.40	0.51
1:O:243:HIS:NE2	1:O:249:TRP:CE2	2.78	0.51
1:P:1:MET:O	1:P:2:ALA:HB2	2.10	0.51
1:P:327:SER:CA	1:P:331:GLY:HA3	2.40	0.51
1:Q:506:LYS:HE2	1:Q:524:THR:O	2.09	0.51
1:P:682:GLN:NE2	1:Q:695:ASP:OD2	2.36	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:334:LEU:HD12	1:R:377:ARG:NH2	2.25	0.51
1:S:729:ARG:HH11	1:S:729:ARG:HB2	1.75	0.51
1:T:327:SER:N	1:T:331:GLY:HA3	2.24	0.51
1:T:72:SER:HB3	1:T:84:ARG:HH21	1.75	0.51
1:U:382:LEU:HB2	1:U:404:SER:O	2.11	0.51
1:V:123:LEU:HD11	1:V:143:TRP:CD1	2.45	0.51
1:V:377:ARG:NH1	1:V:408:LEU:O	2.43	0.51
1:W:734:ARG:HH21	1:W:735:ILE:CD1	2.21	0.51
1:X:474:ARG:HG3	1:X:492:GLU:HB2	1.93	0.51
1:Z:58:TYR:CD1	1:Z:99:LEU:HD12	2.41	0.51
1:A:177:ARG:HH11	1:A:177:ARG:HB2	1.74	0.51
1:B:154:GLN:HG3	1:B:155:LYS:HE3	1.91	0.51
1:B:663:GLU:O	1:B:666:THR:HG22	2.10	0.51
1:D:327:SER:CA	1:D:331:GLY:HA3	2.40	0.51
1:D:339:PRO:HG3	1:E:278:PRO:HA	1.92	0.51
1:D:505:PRO:HG2	1:D:507:ARG:NH1	3.15	0.51
1:E:251:VAL:HG21	1:E:257:GLU:HG2	1.93	0.51
1:E:380:ILE:H	1:E:380:ILE:HD12	1.75	0.51
1:D:573:LYS:HE3	1:E:522:PHE:CZ	2.46	0.51
1:E:734:ARG:HH21	1:E:735:ILE:CD1	3.99	0.51
1:F:255:ASP:OD1	1:F:256:THR:N	2.72	0.51
1:G:1:MET:O	1:G:2:ALA:HB2	2.10	0.51
1:G:804:PRO:O	1:G:807:ILE:HD11	2.11	0.51
1:H:337:LEU:HG	1:H:354:GLY:H	1.74	0.51
1:I:571:ALA:O	1:I:575:ILE:HG12	2.10	0.51
1:I:807:ILE:CD1	1:J:806:THR:HG21	2.86	0.51
1:J:517:LEU:O	1:J:545:TRP:CH2	2.63	0.51
1:J:56:ARG:HH11	1:J:99:LEU:HD23	1.76	0.51
1:K:338:GLN:CB	1:K:339:PRO:CD	2.99	0.51
1:K:692:LYS:HG2	1:K:696:GLN:HE21	1.96	0.51
1:L:67:ARG:HG2	1:L:108:ASP:HB3	2.01	0.51
1:M:10:ILE:HD12	1:M:10:ILE:N	4.10	0.51
1:M:398:VAL:HG11	1:M:415:TRP:CE3	2.44	0.51
1:M:36:ILE:HG23	1:M:98:PRO:HB3	2.60	0.51
1:N:281:TYR:CE1	1:N:321:GLN:HB2	2.44	0.51
1:N:769:GLU:HG2	1:N:769:GLU:O	2.11	0.51
1:O:46:ALA:N	1:O:47:PRO:HD3	2.24	0.51
1:O:518:LEU:HA	1:O:547:PHE:HD1	1.75	0.51
1:Q:227:LEU:CB	1:Q:251:VAL:HG12	2.39	0.51
1:R:354:GLY:CA	1:S:328:GLU:HG3	2.40	0.51
1:R:799:THR:HG21	1:S:801:ALA:HB1	1.92	0.51
1:S:244:ARG:O	1:S:247:GLU:HB2	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:245:THR:OG1	1:T:170:GLN:OE1	2.29	0.51
1:U:1:MET:O	1:U:2:ALA:HB2	2.11	0.51
1:W:354:GLY:O	1:W:356:CYS:N	2.44	0.51
1:W:701:LYS:HG3	1:X:709:LEU:HD13	1.92	0.51
1:Z:184:ASP:HB2	1:Z:189:GLY:O	2.09	0.51
1:Z:252:THR:H	1:Z:254:GLN:NE2	2.08	0.51
1:Z:600:ARG:HH12	1:Z:622:ALA:HB3	1.72	0.51
1:A:551:ASN:HB3	1:A:554:ASP:CB	2.40	0.51
1:A:591:PHE:O	1:A:595:SER:N	2.62	0.51
1:B:19:LEU:HA	1:B:32:PRO:HB2	2.05	0.51
1:A:398:VAL:HB	1:B:384:GLN:HE22	1.75	0.51
1:B:469:GLN:HB3	1:B:496:THR:CG2	2.54	0.51
1:B:627:VAL:HG22	1:B:634:VAL:HG22	2.28	0.51
1:C:130:GLU:HB2	1:C:136:LYS:CA	2.61	0.51
1:C:523:PHE:CD1	1:C:545:TRP:NE1	2.92	0.51
1:C:708:GLU:HG2	1:D:716:VAL:CG1	2.33	0.51
1:D:185:ARG:HG3	1:D:206:PRO:CB	2.39	0.51
1:D:490:ASP:H	1:D:493:GLU:HG2	2.11	0.51
1:F:175:ARG:HG3	1:F:215:LEU:HD23	1.92	0.51
1:F:191:VAL:HG12	1:F:194:GLU:HB2	1.93	0.51
1:F:458:VAL:CG1	1:F:489:LEU:HD12	2.40	0.51
1:G:127:LEU:HB3	1:H:64:PRO:HD3	2.21	0.51
1:G:169:LYS:HG3	1:G:170:GLN:H	1.75	0.51
1:G:30:VAL:HG13	1:G:74:LEU:HD11	2.23	0.51
1:G:417:LYS:HE3	1:G:491:PRO:O	3.09	0.51
1:H:167:VAL:HG13	1:H:201:VAL:O	4.34	0.51
1:H:459:SER:CB	1:H:488:THR:HG22	2.37	0.51
1:H:70:GLN:HG2	1:H:104:VAL:N	2.25	0.51
1:I:458:VAL:CG1	1:I:489:LEU:HD12	2.40	0.51
1:J:260:VAL:O	1:J:262:ASP:N	2.47	0.51
1:J:8:ILE:HA	1:J:40:ASN:HD22	1.82	0.51
1:J:418:GLU:OE2	1:J:452:ARG:NH1	2.43	0.51
1:J:85:HIS:NE2	1:J:102:GLY:HA3	2.25	0.51
1:J:394:LYS:HA	1:K:329:GLN:NE2	2.66	0.51
1:L:217:ASP:OD1	1:L:218:ALA:N	2.43	0.51
1:L:326:LEU:HD21	1:L:333:LEU:CG	2.37	0.51
1:L:331:GLY:O	1:L:360:ARG:HB2	2.10	0.51
1:L:56:ARG:NH1	1:L:99:LEU:HD23	2.17	0.51
1:M:182:CYS:SG	1:M:208:VAL:HG23	2.50	0.51
1:M:46:ALA:H	1:M:47:PRO:HD3	1.75	0.51
1:M:518:LEU:HA	1:M:547:PHE:HD1	1.93	0.51
1:N:490:ASP:OD2	1:N:491:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:165:ALA:HB2	1:O:211:GLU:OE2	2.10	0.51
1:O:251:VAL:HG21	1:O:257:GLU:HG2	1.91	0.51
1:P:332:LEU:HD23	1:P:358:LEU:HD11	1.92	0.51
1:Q:396:GLY:CA	1:R:405:THR:HG23	2.41	0.51
1:R:113:GLN:O	1:R:114:VAL:HG13	2.09	0.51
1:S:8:ILE:HG22	1:S:40:ASN:ND2	2.25	0.51
1:T:261:PRO:HD2	1:T:264:TYR:HB2	1.92	0.51
1:T:384:GLN:H	1:T:384:GLN:HE21	1.56	0.51
1:T:672:ALA:HA	1:T:675:HIS:HB2	1.91	0.51
1:T:752:ALA:O	1:T:756:GLU:HB2	2.09	0.51
1:W:426:LEU:C	1:W:428:ASN:H	2.14	0.51
1:X:109:ILE:HD12	1:X:153:PRO:HB2	1.93	0.51
1:X:291:ASP:C	1:X:293:LYS:H	2.11	0.51
1:Y:396:GLY:HA3	1:Z:405:THR:HG23	1.92	0.51
1:Y:468:VAL:HG11	1:Y:495:PHE:CE2	2.45	0.51
1:A:15:TYR:CE2	1:A:17:HIS:HB3	2.46	0.51
1:A:311:GLN:N	1:A:314:GLU:HG3	2.26	0.51
1:A:564:VAL:HG22	1:A:631:ASN:ND2	2.26	0.51
1:A:752:ALA:O	1:A:756:GLU:HB2	2.10	0.51
1:A:793:LYS:CE	1:M:785:GLN:HE21	136.28	0.51
1:B:285:LEU:HD13	1:B:315:ARG:HH11	2.24	0.51
1:B:382:LEU:N	1:B:405:THR:HG22	2.25	0.51
1:E:341:GLU:O	1:E:341:GLU:OE1	2.62	0.51
1:D:766:ARG:HD3	1:E:772:TYR:HB2	1.93	0.51
1:F:100:TYR:HD2	1:F:101:PRO:HD3	1.74	0.51
1:F:121:LEU:HB2	1:F:145:PHE:HB3	1.91	0.51
1:F:339:PRO:HG3	1:G:278:PRO:HA	1.91	0.51
1:F:67:ARG:HG2	1:F:108:ASP:HB3	2.06	0.51
1:G:18:VAL:HG23	1:G:33:LYS:O	2.09	0.51
1:H:13:TYR:O	1:H:36:ILE:HD13	4.83	0.51
1:H:327:SER:N	1:H:331:GLY:HA3	2.49	0.51
1:H:338:GLN:CB	1:H:339:PRO:CD	2.89	0.51
1:H:8:ILE:HA	1:H:40:ASN:HD22	1.87	0.51
1:I:175:ARG:HH21	1:I:263:VAL:HG13	1.73	0.51
1:I:389:TYR:CZ	1:I:457:VAL:HA	2.72	0.51
1:I:5:GLU:HG2	1:I:43:VAL:CG2	2.37	0.51
1:J:64:PRO:HA	1:J:111:PRO:HD2	1.96	0.51
1:J:660:LEU:HA	1:J:663:GLU:HB2	2.30	0.51
1:J:758:GLU:O	1:J:762:VAL:HG23	2.10	0.51
1:L:335:LYS:HB2	1:L:335:LYS:HZ3	1.85	0.51
1:L:382:LEU:HB2	1:L:404:SER:O	2.11	0.51
1:K:719:THR:HG22	1:L:728:SER:HA	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:340:LEU:HD23	1:M:352:GLN:HA	1.99	0.51
1:M:333:LEU:HB2	1:M:359:ILE:HD11	1.93	0.51
1:M:495:PHE:CB	1:M:514:LEU:HD11	2.58	0.51
1:N:260:VAL:CB	1:N:263:VAL:HA	2.31	0.51
1:O:14:HIS:HB3	1:O:56:ARG:CB	2.39	0.51
1:O:326:LEU:HD13	1:O:360:ARG:HA	1.92	0.51
1:O:5:GLU:HG2	1:O:43:VAL:CG2	2.40	0.51
1:O:564:VAL:HG23	1:O:564:VAL:O	2.10	0.51
1:P:605:GLY:HA3	1:P:623:ARG:HH21	1.74	0.51
1:Q:70:GLN:CG	1:Q:104:VAL:HG12	2.39	0.51
1:R:276:LEU:N	1:R:280:HIS:HB2	2.25	0.51
1:R:77:ILE:CD1	1:R:79:GLY:HA3	2.40	0.51
1:S:1:MET:O	1:S:2:ALA:HB2	2.10	0.51
1:S:360:ARG:HG3	1:S:361:GLY:N	2.25	0.51
1:T:506:LYS:HE2	1:T:524:THR:O	2.11	0.51
1:T:60:ILE:HB	1:T:93:ALA:HA	1.92	0.51
1:T:560:LYS:HD2	1:T:630:GLN:O	2.10	0.51
1:V:180:LYS:C	1:V:182:CYS:N	2.63	0.51
1:V:18:VAL:HG13	1:V:48:VAL:CG2	2.24	0.51
1:W:154:GLN:CG	1:W:155:LYS:N	2.74	0.51
1:X:5:GLU:OE1	1:X:43:VAL:HG11	2.10	0.51
1:X:506:LYS:HE2	1:X:524:THR:O	2.11	0.51
1:Y:121:LEU:HD13	1:Y:151:TYR:HE1	1.76	0.51
1:Y:220:ILE:C	1:Y:222:THR:N	2.64	0.51
1:A:217:ASP:OD1	1:A:257:GLU:O	2.42	0.51
1:B:553:ASN:O	1:B:555:PRO:HD3	2.11	0.51
1:B:67:ARG:HH21	1:B:107:LYS:CA	2.11	0.51
1:C:230:ARG:NH1	1:C:230:ARG:HB3	2.43	0.51
1:C:402:ILE:HG23	1:C:457:VAL:HG21	1.93	0.51
1:D:120:ALA:HB2	1:D:164:GLN:HE22	2.70	0.51
1:D:174:LEU:O	1:D:197:LEU:HA	2.09	0.51
1:D:285:LEU:HB2	1:D:315:ARG:HG2	2.49	0.51
1:D:389:TYR:CE1	1:D:457:VAL:HA	2.45	0.51
1:E:5:GLU:CG	1:E:43:VAL:HG21	2.40	0.51
1:E:687:ARG:HG2	1:E:691:GLN:HE21	2.01	0.51
1:F:217:ASP:OD2	1:F:257:GLU:O	3.42	0.51
1:E:354:GLY:C	1:F:328:GLU:HG3	2.31	0.51
1:F:543:TYR:CD2	1:F:575:ILE:HD13	2.46	0.51
1:F:93:ALA:C	1:F:95:ASP:H	2.24	0.51
1:G:121:LEU:HB2	1:G:145:PHE:HB3	1.91	0.51
1:G:421:SER:O	1:G:425:GLU:OE2	2.28	0.51
1:F:807:ILE:HD13	1:G:806:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:235:PHE:CE1	1:H:264:TYR:CE1	3.08	0.51
1:H:279:ARG:O	1:H:323:VAL:N	2.38	0.51
1:H:358:LEU:HD13	1:H:377:ARG:HH11	2.22	0.51
1:G:704:LYS:HD2	1:H:712:MET:HB3	2.29	0.51
1:J:175:ARG:HH11	1:J:175:ARG:HB3	2.41	0.51
1:J:227:LEU:HD13	1:J:229:LEU:HD21	1.91	0.51
1:J:588:PHE:CE2	1:K:662:ILE:HD11	7.38	0.51
1:J:9:ARG:NH1	1:J:37:ARG:H	2.08	0.51
1:K:230:ARG:HG2	1:K:248:GLU:HG2	1.92	0.51
1:K:260:VAL:O	1:K:262:ASP:N	2.53	0.51
1:K:523:PHE:CD1	1:K:545:TRP:NE1	2.79	0.51
1:K:568:VAL:HG23	1:K:569:GLY:H	1.76	0.51
1:L:276:LEU:N	1:L:280:HIS:HB2	2.32	0.51
1:L:388:ILE:HD12	1:L:401:VAL:HB	2.43	0.51
1:O:130:GLU:HB2	1:O:136:LYS:CA	2.40	0.51
1:O:281:TYR:CD2	1:O:366:VAL:HG13	2.45	0.51
1:P:100:TYR:CB	1:P:101:PRO:CD	2.88	0.51
1:P:276:LEU:CD1	1:P:278:PRO:HD2	2.39	0.51
1:Q:115:VAL:N	1:Q:118:ASN:ND2	2.58	0.51
1:Q:150:THR:HG23	1:Q:151:TYR:N	2.24	0.51
1:Q:206:PRO:HD2	1:Q:209:PHE:CD1	2.46	0.51
1:Q:3:THR:HG22	1:Q:50:MET:CE	2.40	0.51
1:R:176:LEU:CD2	1:R:211:GLU:HA	2.40	0.51
1:R:339:PRO:HG2	1:R:370:LYS:HE2	1.92	0.51
1:S:159:VAL:HG12	1:S:160:VAL:HG22	1.91	0.51
1:V:336:ALA:HA	1:V:356:CYS:CB	2.41	0.51
1:V:336:ALA:HA	1:V:356:CYS:HB3	1.92	0.51
1:V:709:LEU:HD23	1:V:712:MET:HE1	1.92	0.51
1:V:745:LYS:O	1:V:748:ALA:HB3	2.11	0.51
1:U:785:GLN:HA	1:V:790:VAL:HG21	1.92	0.51
1:Y:251:VAL:HA	1:Y:254:GLN:HE22	1.76	0.51
1:Y:328:GLU:CG	1:Y:329:GLN:H	2.09	0.51
1:Z:249:TRP:N	1:Z:249:TRP:CD1	2.79	0.51
1:A:262:ASP:HB3	1:A:264:TYR:CZ	2.46	0.51
1:A:476:LYS:HE2	1:B:485:GLU:CG	2.38	0.51
1:B:326:LEU:HD11	1:B:359:ILE:HD13	3.94	0.51
1:B:53:VAL:HG11	1:B:56:ARG:HG3	1.93	0.51
1:C:70:GLN:HG3	1:C:70:GLN:O	2.20	0.51
1:C:766:ARG:HD2	1:D:768:MET:CE	2.41	0.51
1:E:221:LEU:HD12	1:E:253:VAL:CG1	2.40	0.51
1:E:342:GLU:HA	1:E:350:SER:HA	2.00	0.51
1:E:623:ARG:HG3	1:E:624:ASP:N	2.49	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:294:ASN:ND2	1:F:313:GLY:HA3	2.86	0.51
1:F:90:ILE:N	1:F:90:ILE:CD1	2.95	0.51
1:G:116:LEU:CB	1:G:117:PRO:CD	2.82	0.51
1:G:244:ARG:HB3	1:H:221:LEU:HD23	1.93	0.51
1:H:470:VAL:CB	1:H:479:ARG:HD2	2.36	0.51
1:H:766:ARG:O	1:H:770:LEU:HB2	2.11	0.51
1:I:191:VAL:HG12	1:I:194:GLU:HB2	1.92	0.51
1:I:382:LEU:HB2	1:I:404:SER:O	2.10	0.51
1:I:425:GLU:CD	1:I:425:GLU:H	2.14	0.51
1:L:137:VAL:CG2	1:L:138:MET:N	2.73	0.51
1:L:407:MET:SD	1:L:407:MET:N	2.82	0.51
1:M:123:LEU:CG	1:M:143:TRP:HB2	2.40	0.51
1:M:234:ASN:N	1:M:234:ASN:HD22	2.09	0.51
1:M:18:VAL:O	1:M:32:PRO:HB3	2.28	0.51
1:L:398:VAL:HB	1:M:384:GLN:HE22	2.31	0.51
1:N:54:PRO:CB	1:N:55:PRO:HD3	2.30	0.51
1:O:332:LEU:HB2	1:O:377:ARG:HB3	1.92	0.51
1:Q:230:ARG:HB3	1:Q:230:ARG:HH11	1.75	0.51
1:Q:330:GLN:HB3	1:Q:379:ALA:CB	2.32	0.51
1:Q:36:ILE:HG21	1:Q:99:LEU:CD1	2.41	0.51
1:Q:689:GLU:O	1:Q:693:ILE:HG12	2.10	0.51
1:R:208:VAL:HG23	1:R:209:PHE:HD2	1.75	0.51
1:R:328:GLU:CA	1:R:328:GLU:OE1	2.56	0.51
1:R:575:ILE:N	1:R:575:ILE:CD1	2.74	0.51
1:R:564:VAL:CG2	1:R:631:ASN:ND2	2.72	0.51
1:R:766:ARG:HG3	1:S:772:TYR:CD1	2.45	0.51
1:S:557:GLU:HA	1:S:560:LYS:HB2	1.93	0.51
1:S:687:ARG:HG2	1:S:691:GLN:HE21	1.75	0.51
1:U:115:VAL:HA	1:U:147:GLY:O	2.11	0.51
1:U:382:LEU:CD1	1:U:388:ILE:HD13	2.38	0.51
1:U:5:GLU:CG	1:U:43:VAL:HG21	2.41	0.51
1:W:224:LYS:O	1:W:272:PRO:HD3	2.11	0.51
1:W:758:GLU:O	1:W:761:ARG:HB2	2.11	0.51
1:Z:36:ILE:HD12	1:Z:37:ARG:N	2.25	0.51
1:A:665:THR:HG21	1:Z:589:ASP:HB2	187.81	0.51
1:B:220:ILE:O	1:B:253:VAL:HG22	2.11	0.51
1:C:119:THR:HG23	1:C:163:ILE:HG23	1.92	0.51
1:C:327:SER:N	1:C:331:GLY:HA3	2.26	0.51
1:C:328:GLU:CG	1:C:329:GLN:H	4.01	0.51
1:C:511:ARG:NH2	1:C:517:LEU:HD11	2.32	0.51
1:C:22:ASN:ND2	1:D:39:ASP:HB3	2.45	0.51
1:D:425:GLU:CD	1:D:425:GLU:H	2.13	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:115:VAL:O	1:F:118:ASN:CB	2.86	0.51
1:F:220:ILE:HD12	1:F:252:THR:HA	3.07	0.51
1:F:481:VAL:HG11	1:F:487:VAL:CG1	2.41	0.51
1:G:326:LEU:HD13	1:G:360:ARG:HA	1.93	0.51
1:G:729:ARG:CZ	1:G:729:ARG:HB2	2.40	0.51
1:H:262:ASP:HB3	1:H:264:TYR:CZ	2.59	0.51
1:K:70:GLN:HB3	1:K:104:VAL:O	4.57	0.51
1:K:560:LYS:HD2	1:K:630:GLN:O	2.10	0.51
1:J:588:PHE:CD2	1:K:662:ILE:CD1	6.84	0.51
1:J:704:LYS:HD2	1:K:712:MET:HB3	1.93	0.51
1:L:70:GLN:HB2	1:L:104:VAL:HG12	1.93	0.51
1:L:65:VAL:CA	1:L:110:THR:HA	2.39	0.51
1:L:339:PRO:HD2	1:L:370:LYS:HB3	1.92	0.51
1:M:402:ILE:HD13	1:M:402:ILE:H	3.80	0.51
1:N:119:THR:HG23	1:N:163:ILE:HG23	1.93	0.51
1:O:182:CYS:SG	1:O:208:VAL:CG2	2.99	0.51
1:P:408:LEU:HD12	1:P:408:LEU:H	1.75	0.51
1:S:120:ALA:O	1:S:161:GLU:HA	2.10	0.51
1:S:529:ILE:C	1:S:529:ILE:CD1	2.79	0.51
1:S:791:GLU:OE1	1:T:794:LYS:NZ	2.40	0.51
1:S:354:GLY:C	1:T:328:GLU:HG3	2.30	0.51
1:U:217:ASP:OD1	1:U:257:GLU:O	2.28	0.51
1:U:328:GLU:OE1	1:U:361:GLY:O	2.29	0.51
1:V:100:TYR:HD2	1:V:101:PRO:HD3	1.76	0.51
1:V:167:VAL:HG22	1:V:201:VAL:HA	1.92	0.51
1:V:250:LEU:HD21	1:V:311:GLN:NE2	2.26	0.51
1:V:568:VAL:HG23	1:V:569:GLY:H	1.76	0.51
1:W:17:HIS:CD2	1:W:18:VAL:HG22	2.45	0.51
1:Y:164:GLN:HB3	1:Y:204:TYR:HA	1.91	0.51
1:Y:419:LEU:CD2	1:Y:422:GLY:H	2.23	0.51
1:Y:73:VAL:HG21	1:Y:82:ARG:HB2	1.93	0.51
1:Z:402:ILE:HD12	1:Z:402:ILE:O	2.10	0.51
1:A:17:HIS:CD2	1:A:18:VAL:HG22	2.48	0.51
1:A:243:HIS:NE2	1:A:249:TRP:CE2	2.78	0.51
1:A:761:ARG:HG2	1:M:755:THR:HG21	156.95	0.51
1:B:15:TYR:CE2	1:B:17:HIS:HB3	2.46	0.51
1:B:227:LEU:HB2	1:B:251:VAL:CG1	2.40	0.51
1:B:268:LEU:CD1	1:B:269:GLY:H	2.84	0.51
1:B:596:ALA:O	1:B:600:ARG:HB2	2.28	0.51
1:D:90:ILE:CG2	1:D:154:GLN:HB2	2.41	0.51
1:D:119:THR:HG23	1:D:163:ILE:HG23	2.20	0.51
1:F:100:TYR:HB3	1:F:101:PRO:HD2	2.21	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:221:LEU:HD22	1:F:256:THR:CB	2.78	0.51
1:F:354:GLY:HA3	1:G:328:GLU:HG3	2.33	0.51
1:F:517:LEU:H	1:F:517:LEU:CD1	2.31	0.51
1:F:70:GLN:HA	1:F:88:GLN:HA	1.92	0.51
1:F:771:ILE:HD12	1:F:774:ARG:NH1	2.25	0.51
1:G:383:ASP:OD1	1:G:383:ASP:N	2.44	0.51
1:F:535:ALA:HA	1:G:658:VAL:HG21	1.97	0.51
1:H:226:ALA:HB3	1:H:270:VAL:CG1	2.41	0.51
1:G:22:ASN:ND2	1:H:39:ASP:HB3	2.26	0.51
1:I:227:LEU:HD13	1:I:229:LEU:HD21	2.02	0.51
1:J:226:ALA:HB3	1:J:270:VAL:HG13	1.93	0.51
1:J:244:ARG:O	1:J:247:GLU:HB2	2.56	0.51
1:K:262:ASP:O	1:K:262:ASP:OD2	2.88	0.51
1:K:3:THR:HG22	1:K:50:MET:HE2	2.40	0.51
1:L:123:LEU:HD11	1:L:143:TRP:HD1	1.75	0.51
1:M:169:LYS:CG	1:M:170:GLN:H	3.14	0.51
1:M:220:ILE:C	1:M:222:THR:N	2.65	0.51
1:M:255:ASP:CG	1:M:256:THR:H	2.90	0.51
1:M:419:LEU:HD23	1:M:421:SER:H	1.82	0.51
1:M:61:VAL:HG13	1:M:65:VAL:CG2	2.41	0.51
1:O:579:VAL:HG13	1:O:599:ILE:HD12	1.93	0.51
1:N:719:THR:HG22	1:O:728:SER:CA	2.41	0.51
1:Q:14:HIS:HB3	1:Q:56:ARG:HG3	1.93	0.51
1:R:24:ASN:HD22	1:R:30:VAL:HB	1.75	0.51
1:R:36:ILE:O	1:R:37:ARG:CG	2.59	0.51
1:R:524:THR:HG22	1:R:542:ALA:HB2	1.92	0.51
1:S:494:GLN:HA	1:S:494:GLN:NE2	2.24	0.51
1:S:571:ALA:O	1:S:575:ILE:HG12	2.11	0.51
1:T:326:LEU:O	1:T:328:GLU:HG2	2.11	0.51
1:T:799:THR:HG21	1:U:801:ALA:HB1	1.92	0.51
1:U:115:VAL:H	1:U:118:ASN:HD22	1.59	0.51
1:U:120:ALA:HB2	1:U:164:GLN:NE2	2.25	0.51
1:U:176:LEU:HB2	1:U:196:TRP:CB	2.40	0.51
1:U:230:ARG:HG2	1:U:248:GLU:HG2	1.93	0.51
1:U:334:LEU:HD12	1:U:377:ARG:NH2	2.26	0.51
1:U:336:ALA:HA	1:U:356:CYS:CB	2.41	0.51
1:V:252:THR:H	1:V:254:GLN:NE2	2.08	0.51
1:X:1:MET:O	1:X:2:ALA:HB2	2.11	0.51
1:X:354:GLY:O	1:X:356:CYS:N	2.43	0.51
1:X:589:ASP:HB2	1:Y:665:THR:HG21	1.92	0.51
1:X:60:ILE:HB	1:X:93:ALA:HA	1.93	0.51
1:Y:130:GLU:H	1:Y:137:VAL:HG12	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:243:HIS:NE2	1:Z:249:TRP:CD2	2.77	0.51
1:Z:1:MET:O	1:Z:2:ALA:HB2	2.11	0.51
1:Z:8:ILE:HG22	1:Z:40:ASN:HD21	1.75	0.51
1:A:9:ARG:CZ	1:A:15:TYR:HB3	2.61	0.51
1:A:336:ALA:H	1:A:374:VAL:HG23	1.84	0.51
1:A:417:LYS:O	1:A:418:GLU:HB2	2.11	0.51
1:A:662:ILE:O	1:A:666:THR:HB	2.26	0.51
1:B:159:VAL:HG12	1:B:160:VAL:HG22	1.93	0.51
1:B:221:LEU:HD13	1:B:256:THR:HB	2.27	0.51
1:B:501:SER:HB3	1:B:507:ARG:O	2.18	0.51
1:B:523:PHE:CD1	1:B:568:VAL:HG12	2.46	0.51
1:B:766:ARG:HG3	1:C:772:TYR:CD1	2.90	0.51
1:C:759:LEU:HD22	1:D:768:MET:HG3	2.23	0.51
1:C:77:ILE:HG13	1:C:80:GLN:H	1.76	0.51
1:C:58:TYR:CD1	1:C:99:LEU:HD12	2.93	0.51
1:D:500:LEU:HA	1:D:566:ASP:OD1	2.11	0.51
1:E:796:LYS:HA	1:E:799:THR:CG2	2.39	0.51
1:F:215:LEU:HD12	1:F:259:HIS:CE1	2.99	0.51
1:G:159:VAL:HG12	1:G:160:VAL:HG22	2.00	0.51
1:G:191:VAL:HG13	1:G:192:THR:N	2.54	0.51
1:H:220:ILE:CD1	1:H:251:VAL:HG22	2.41	0.51
1:H:262:ASP:HB3	1:H:264:TYR:CE1	2.46	0.51
1:I:130:GLU:CB	1:I:136:LYS:HA	2.90	0.51
1:I:260:VAL:CB	1:I:263:VAL:HA	2.69	0.51
1:I:564:VAL:CG2	1:I:631:ASN:ND2	2.91	0.51
1:J:281:TYR:CD2	1:J:366:VAL:HG13	2.46	0.51
1:K:733:ALA:HA	1:K:736:GLU:HB2	1.93	0.51
1:L:1:MET:O	1:L:2:ALA:HB2	2.10	0.51
1:K:354:GLY:CA	1:L:328:GLU:HG3	6.44	0.51
1:L:796:LYS:O	1:L:799:THR:HG22	2.10	0.51
1:N:291:ASP:C	1:N:293:LYS:H	2.14	0.51
1:N:318:ARG:HB2	1:N:321:GLN:CD	2.32	0.51
1:P:527:ILE:H	1:P:527:ILE:CD1	2.23	0.51
1:Q:338:GLN:HB3	1:Q:339:PRO:HD3	1.92	0.51
1:R:18:VAL:N	1:R:48:VAL:HG13	2.22	0.51
1:R:564:VAL:HG21	1:R:631:ASN:HD22	1.74	0.51
1:S:177:ARG:H	1:S:212:VAL:HG23	1.76	0.51
1:S:5:GLU:CG	1:S:43:VAL:HG21	2.40	0.51
1:T:1:MET:O	1:T:2:ALA:HB2	2.11	0.51
1:T:359:ILE:O	1:T:359:ILE:HD12	2.10	0.51
1:T:368:SER:HB3	1:T:371:VAL:CG2	2.38	0.51
1:T:470:VAL:HB	1:T:479:ARG:HD2	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:384:GLN:H	1:X:384:GLN:NE2	2.09	0.51
1:Z:332:LEU:HD11	1:Z:379:ALA:HB2	1.93	0.51
1:Z:5:GLU:O	1:Z:41:GLU:O	2.28	0.51
1:A:415:TRP:CH2	1:A:417:LYS:HB3	2.45	0.50
1:C:730:ALA:O	1:C:734:ARG:HB2	2.51	0.50
1:C:733:ALA:HA	1:C:736:GLU:HB2	2.70	0.50
1:D:339:PRO:HD2	1:D:370:LYS:HB3	1.99	0.50
1:D:481:VAL:O	1:D:481:VAL:HG13	2.10	0.50
1:E:152:ILE:HD12	1:E:155:LYS:HZ1	4.18	0.50
1:E:542:ALA:HB3	1:E:639:ASP:HB2	1.92	0.50
1:E:777:LEU:HD11	1:F:783:LYS:HB2	2.28	0.50
1:F:65:VAL:CG1	1:F:110:THR:HG22	2.67	0.50
1:F:1:MET:O	1:F:2:ALA:HB2	2.11	0.50
1:F:3:THR:H	1:F:50:MET:HE1	1.91	0.50
1:F:729:ARG:CZ	1:F:729:ARG:HB2	2.41	0.50
1:G:176:LEU:HA	1:G:210:GLU:O	2.24	0.50
1:H:123:LEU:CD1	1:H:143:TRP:HB2	2.41	0.50
1:H:226:ALA:HB3	1:H:270:VAL:HG12	1.93	0.50
1:H:236:ARG:CZ	1:H:236:ARG:HB3	2.77	0.50
1:H:543:TYR:HE2	1:H:575:ILE:HG21	1.74	0.50
1:H:517:LEU:O	1:H:545:TRP:HH2	1.93	0.50
1:I:251:VAL:HG23	1:I:254:GLN:NE2	2.26	0.50
1:I:327:SER:N	1:I:331:GLY:HA3	2.34	0.50
1:J:337:LEU:O	1:J:337:LEU:HG	2.37	0.50
1:J:527:ILE:HD11	1:J:539:LEU:HB2	1.93	0.50
1:K:296:LEU:H	1:K:296:LEU:HD13	1.95	0.50
1:L:283:VAL:HB	1:L:317:GLU:HB3	1.93	0.50
1:L:529:ILE:HD12	1:L:583:VAL:CG1	2.36	0.50
1:M:213:LEU:HD13	1:M:214:ASP:H	1.76	0.50
1:M:283:VAL:HB	1:M:317:GLU:HB3	1.94	0.50
1:M:333:LEU:HB2	1:M:359:ILE:HD12	1.93	0.50
1:M:575:ILE:HD12	1:M:603:VAL:HG13	1.93	0.50
1:M:663:GLU:O	1:M:666:THR:HG22	2.11	0.50
1:O:164:GLN:NE2	1:O:204:TYR:HB3	2.26	0.50
1:O:296:LEU:N	1:O:296:LEU:HD22	2.26	0.50
1:O:654:LEU:CD1	1:P:662:ILE:HD12	2.36	0.50
1:P:296:LEU:HD21	1:Q:307:SER:HB3	1.93	0.50
1:Q:503:GLY:O	1:Q:506:LYS:HD3	2.11	0.50
1:R:220:ILE:C	1:R:222:THR:N	2.64	0.50
1:R:244:ARG:O	1:R:247:GLU:HB2	2.12	0.50
1:R:77:ILE:HD11	1:R:79:GLY:HA3	1.93	0.50
1:T:229:LEU:HD23	1:T:266:GLU:HA	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:328:GLU:CA	1:T:328:GLU:OE1	2.54	0.50
1:T:540:GLN:HB2	1:T:642:SER:HB3	1.93	0.50
1:U:377:ARG:NH1	1:U:408:LEU:O	2.44	0.50
1:U:419:LEU:CG	1:U:420:PRO:HD2	2.23	0.50
1:W:332:LEU:HD23	1:W:358:LEU:CD1	2.41	0.50
1:X:191:VAL:HB	1:X:194:GLU:HB2	1.93	0.50
1:X:766:ARG:O	1:X:770:LEU:HB2	2.10	0.50
1:Y:116:LEU:HB3	1:Y:117:PRO:CD	2.37	0.50
1:Z:235:PHE:CE1	1:Z:264:TYR:CE1	3.00	0.50
1:Z:276:LEU:O	1:Z:277:GLY:C	2.49	0.50
1:A:418:GLU:OE2	1:A:452:ARG:NH1	2.68	0.50
1:A:600:ARG:O	1:A:604:PHE:HD1	1.94	0.50
1:A:799:THR:HG21	1:B:801:ALA:HB1	1.94	0.50
1:B:249:TRP:N	1:B:249:TRP:CD1	2.79	0.50
1:B:407:MET:N	1:B:407:MET:SD	3.19	0.50
1:C:255:ASP:OD1	1:C:256:THR:N	2.56	0.50
1:C:36:ILE:HG21	1:C:99:LEU:HD13	2.15	0.50
1:D:16:ILE:CD1	1:D:34:THR:HG21	2.72	0.50
1:D:334:LEU:HD12	1:D:377:ARG:NH2	2.26	0.50
1:D:529:ILE:C	1:D:529:ILE:CD1	3.36	0.50
1:D:70:GLN:HG2	1:D:104:VAL:HG12	2.03	0.50
1:E:85:HIS:NE2	1:E:102:GLY:HA3	2.26	0.50
1:E:234:ASN:ND2	1:E:245:THR:H	2.09	0.50
1:E:30:VAL:HA	1:E:74:LEU:HD11	2.37	0.50
1:E:383:ASP:HB2	1:E:386:GLU:HG2	1.91	0.50
1:D:799:THR:HG21	1:E:801:ALA:HB1	1.93	0.50
1:F:320:ILE:HD12	1:F:320:ILE:O	5.44	0.50
1:F:330:GLN:HB3	1:F:379:ALA:CB	2.30	0.50
1:F:394:LYS:HA	1:G:329:GLN:NE2	2.55	0.50
1:G:123:LEU:CG	1:G:143:TRP:HB2	2.59	0.50
1:G:249:TRP:N	1:G:249:TRP:CD1	2.80	0.50
1:G:332:LEU:HD23	1:G:358:LEU:HD11	2.16	0.50
1:G:5:GLU:CG	1:G:43:VAL:HG21	2.73	0.50
1:G:745:LYS:HG3	1:H:753:ILE:CD1	2.51	0.50
1:J:144:LEU:H	1:J:144:LEU:HD12	1.87	0.50
1:J:416:GLU:HB2	1:J:454:LYS:HB3	1.92	0.50
1:J:660:LEU:HA	1:J:663:GLU:CB	2.60	0.50
1:K:184:ASP:HB2	1:K:189:GLY:O	2.10	0.50
1:K:174:LEU:O	1:K:197:LEU:HA	2.33	0.50
1:K:18:VAL:N	1:K:48:VAL:HG13	2.29	0.50
1:K:70:GLN:O	1:K:70:GLN:HG3	2.11	0.50
1:K:29:GLU:O	1:K:84:ARG:HD3	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:70:GLN:CB	1:L:104:VAL:HG12	2.40	0.50
1:L:183:PHE:HE2	1:L:188:LYS:HA	2.02	0.50
1:K:580:ARG:HH22	1:L:595:SER:CB	2.24	0.50
1:M:154:GLN:HG3	1:M:155:LYS:N	2.26	0.50
1:M:360:ARG:CD	1:M:407:MET:HG2	2.40	0.50
1:M:36:ILE:C	1:M:36:ILE:HD13	2.31	0.50
1:N:72:SER:OG	1:N:102:GLY:O	2.28	0.50
1:O:284:ILE:HD13	1:O:284:ILE:N	2.20	0.50
1:O:331:GLY:O	1:O:360:ARG:HB2	2.10	0.50
1:O:389:TYR:CZ	1:O:457:VAL:HA	2.46	0.50
1:O:419:LEU:CD1	1:O:494:GLN:HE21	2.17	0.50
1:Q:508:PRO:O	1:Q:509:HIS:HD2	1.93	0.50
1:R:175:ARG:HH21	1:R:263:VAL:CG1	2.19	0.50
1:R:284:ILE:CD1	1:R:302:VAL:HG22	2.41	0.50
1:R:332:LEU:HD11	1:R:407:MET:HB3	1.93	0.50
1:S:174:LEU:HB2	1:S:198:VAL:HB	1.94	0.50
1:S:545:TRP:HB2	1:S:633:LEU:HD21	1.93	0.50
1:S:589:ASP:HB2	1:T:665:THR:HG21	1.92	0.50
1:T:340:LEU:HD23	1:T:352:GLN:HA	1.92	0.50
1:T:532:ALA:HB2	1:T:584:ALA:O	2.11	0.50
1:T:796:LYS:HA	1:T:799:THR:CG2	2.41	0.50
1:U:122:HIS:CG	1:U:159:VAL:HB	2.47	0.50
1:W:244:ARG:O	1:W:247:GLU:HB2	2.11	0.50
1:W:260:VAL:HB	1:W:263:VAL:HA	1.92	0.50
1:W:305:GLU:O	1:W:306:LYS:HG3	2.10	0.50
1:W:60:ILE:HD13	1:W:60:ILE:N	2.26	0.50
1:X:176:LEU:HD13	1:X:209:PHE:HD1	1.77	0.50
1:X:750:ALA:O	1:X:753:ILE:HG22	2.12	0.50
1:Y:332:LEU:HD11	1:Y:379:ALA:HB2	1.93	0.50
1:Y:415:TRP:CH2	1:Y:417:LYS:HB3	2.46	0.50
1:Y:77:ILE:HG12	1:Y:80:GLN:O	2.11	0.50
1:Z:391:GLN:HB2	1:Z:398:VAL:HG22	1.94	0.50
1:A:70:GLN:HB3	1:A:105:LEU:H	1.75	0.50
1:B:262:ASP:HB3	1:B:264:TYR:HE1	2.09	0.50
1:B:524:THR:HG22	1:B:542:ALA:HB2	1.92	0.50
1:C:176:LEU:HB2	1:C:196:TRP:CB	2.39	0.50
1:C:256:THR:HG23	1:C:256:THR:O	2.12	0.50
1:C:273:ILE:HG21	1:C:316:LEU:HD11	1.97	0.50
1:C:1:MET:O	1:C:2:ALA:HB2	2.11	0.50
1:C:395:THR:HB	1:C:397:LYS:HB3	2.60	0.50
1:C:771:ILE:HD13	1:C:774:ARG:HH11	1.72	0.50
1:D:501:SER:HA	1:D:507:ARG:O	2.31	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:228:HIS:NE2	1:E:312:PRO:HB3	2.26	0.50
1:E:737:GLY:HA3	1:F:746:LEU:HD13	2.13	0.50
1:F:549:LEU:HD12	1:F:552:ARG:HA	1.96	0.50
1:F:557:GLU:HA	1:F:560:LYS:HB2	1.93	0.50
1:G:14:HIS:ND1	1:G:36:ILE:HG22	2.31	0.50
1:G:296:LEU:H	1:G:296:LEU:HD22	2.78	0.50
1:G:365:TYR:CE2	1:G:367:PRO:HA	2.47	0.50
1:G:389:TYR:CZ	1:G:457:VAL:HA	2.77	0.50
1:H:53:VAL:CG1	1:H:56:ARG:HG3	2.42	0.50
1:I:327:SER:CA	1:I:331:GLY:HA3	2.40	0.50
1:I:472:ASP:HB3	1:I:477:ARG:HB2	1.93	0.50
1:J:251:VAL:CG2	1:J:254:GLN:NE2	2.74	0.50
1:K:251:VAL:CG2	1:K:254:GLN:NE2	2.73	0.50
1:L:785:GLN:HA	1:M:790:VAL:CG2	2.46	0.50
1:M:122:HIS:CE1	1:M:207:ALA:HB1	2.80	0.50
1:M:310:LEU:HD21	1:M:316:LEU:HG	2.19	0.50
1:M:398:VAL:HG11	1:M:415:TRP:CD2	2.46	0.50
1:M:811:ALA:C	1:M:813:ALA:H	2.15	0.50
1:O:164:GLN:CD	1:O:204:TYR:HB3	2.32	0.50
1:P:128:ASP:OD1	1:P:131:ASP:HB3	2.11	0.50
1:P:327:SER:HB2	1:P:331:GLY:HA2	1.85	0.50
1:O:354:GLY:C	1:P:328:GLU:HG3	2.31	0.50
1:P:8:ILE:HA	1:P:40:ASN:HD22	1.76	0.50
1:Q:799:THR:HG21	1:R:801:ALA:HB1	1.91	0.50
1:R:65:VAL:HG12	1:R:110:THR:HB	1.94	0.50
1:R:729:ARG:HB2	1:R:729:ARG:NH1	2.27	0.50
1:R:803:GLY:CA	1:R:806:THR:HB	2.42	0.50
1:S:180:LYS:HD2	1:S:208:VAL:HG12	1.93	0.50
1:T:276:LEU:N	1:T:280:HIS:HB2	2.26	0.50
1:U:472:ASP:HB3	1:U:477:ARG:HB2	1.93	0.50
1:V:494:GLN:NE2	1:V:494:GLN:HA	2.26	0.50
1:W:282:CYS:HA	1:W:321:GLN:HE21	1.75	0.50
1:X:5:GLU:CG	1:X:43:VAL:HG21	2.41	0.50
1:Y:664:ILE:O	1:Y:668:SER:HB2	2.11	0.50
1:Y:690:ARG:O	1:Y:694:LEU:HG	2.12	0.50
1:Y:799:THR:HG21	1:Z:801:ALA:HB1	1.93	0.50
1:Z:285:LEU:HD21	1:Z:317:GLU:HB2	1.93	0.50
1:A:7:ILE:O	1:A:41:GLU:HG3	2.11	0.50
1:B:14:HIS:ND1	1:B:36:ILE:HG22	2.35	0.50
1:B:176:LEU:HA	1:B:210:GLU:O	2.40	0.50
1:B:452:ARG:HH22	1:B:458:VAL:HG22	2.42	0.50
1:C:74:LEU:HB2	1:C:100:TYR:CE2	3.08	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:11:PRO:HB2	1:C:12:PRO:HD3	1.93	0.50
1:C:326:LEU:O	1:C:328:GLU:N	3.34	0.50
1:C:539:LEU:HA	1:C:642:SER:O	2.12	0.50
1:C:338:GLN:OE1	1:D:278:PRO:HB2	2.11	0.50
1:D:407:MET:N	1:D:407:MET:SD	2.84	0.50
1:E:291:ASP:C	1:E:293:LYS:H	2.41	0.50
1:F:560:LYS:O	1:F:631:ASN:HA	2.16	0.50
1:G:358:LEU:HD13	1:G:377:ARG:HH11	2.25	0.50
1:F:398:VAL:HB	1:G:384:GLN:HE22	1.76	0.50
1:G:46:ALA:H	1:G:47:PRO:HD3	2.03	0.50
1:G:564:VAL:HG21	1:G:631:ASN:ND2	2.54	0.50
1:I:398:VAL:HG11	1:I:415:TRP:CD2	2.47	0.50
1:H:723:LYS:CG	1:I:735:ILE:HD11	2.42	0.50
1:J:165:ALA:HB2	1:J:211:GLU:OE2	2.21	0.50
1:J:284:ILE:N	1:J:284:ILE:HD13	2.24	0.50
1:K:115:VAL:O	1:K:118:ASN:CB	2.60	0.50
1:K:276:LEU:N	1:K:280:HIS:HB2	2.35	0.50
1:K:68:ASP:O	1:K:106:GLU:HB2	2.10	0.50
1:L:587:THR:HG23	1:L:590:ASP:HB3	1.92	0.50
1:M:276:LEU:O	1:M:277:GLY:C	2.55	0.50
1:N:1:MET:O	1:N:2:ALA:HB2	2.11	0.50
1:N:767:GLU:HG2	1:N:771:ILE:CD1	2.41	0.50
1:N:8:ILE:HG22	1:N:40:ASN:ND2	2.27	0.50
1:O:65:VAL:HG12	1:O:110:THR:HG22	1.94	0.50
1:Q:185:ARG:NH1	1:Q:206:PRO:HB3	2.26	0.50
1:S:229:LEU:CD2	1:S:266:GLU:HA	2.42	0.50
1:T:239:ARG:HH21	1:T:257:GLU:HG2	1.71	0.50
1:T:755:THR:HA	1:T:758:GLU:HB3	1.94	0.50
1:U:255:ASP:OD2	1:U:257:GLU:HB3	2.12	0.50
1:V:383:ASP:H	1:V:386:GLU:HG2	1.76	0.50
1:W:398:VAL:HB	1:X:384:GLN:HE22	1.76	0.50
1:Y:1:MET:O	1:Y:2:ALA:HB2	2.12	0.50
1:Y:281:TYR:HE1	1:Y:321:GLN:HB2	1.71	0.50
1:Y:587:THR:HG23	1:Y:590:ASP:CB	2.40	0.50
1:Z:113:GLN:O	1:Z:114:VAL:HG13	2.11	0.50
1:Z:180:LYS:O	1:Z:182:CYS:N	2.44	0.50
1:Z:511:ARG:NH2	1:Z:517:LEU:HD11	2.22	0.50
1:A:24:ASN:ND2	1:A:30:VAL:HB	2.24	0.50
1:A:409:THR:O	1:A:410:GLN:C	2.49	0.50
1:A:90:ILE:HD13	1:A:90:ILE:H	4.44	0.50
1:C:286:ASP:N	1:C:287:PRO:HD3	2.27	0.50
1:C:704:LYS:HD2	1:D:712:MET:HB3	1.94	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:380:ILE:CD1	1:D:388:ILE:HD13	4.61	0.50
1:D:459:SER:HB3	1:D:488:THR:CG2	2.37	0.50
1:E:166:THR:HA	1:E:202:GLY:HA2	1.94	0.50
1:E:165:ALA:HB3	1:E:174:LEU:HD11	2.21	0.50
1:E:18:VAL:CG1	1:E:48:VAL:HG22	2.33	0.50
1:E:229:LEU:O	1:E:248:GLU:HA	2.11	0.50
1:E:291:ASP:HB3	1:E:293:LYS:HB2	1.94	0.50
1:E:332:LEU:HG	1:E:360:ARG:HB2	1.93	0.50
1:E:481:VAL:HG13	1:E:481:VAL:O	2.37	0.50
1:E:77:ILE:CG1	1:E:80:GLN:H	2.20	0.50
1:F:398:VAL:N	1:G:384:GLN:OE1	2.43	0.50
1:G:358:LEU:HD13	1:G:377:ARG:NH1	2.72	0.50
1:G:527:ILE:HD11	1:G:541:LEU:HG	1.94	0.50
1:H:70:GLN:HG2	1:H:104:VAL:HG12	1.93	0.50
1:H:415:TRP:CH2	1:H:417:LYS:HB3	2.50	0.50
1:H:58:TYR:CD1	1:H:98:PRO:HA	2.85	0.50
1:H:36:ILE:HG21	1:H:99:LEU:H	2.00	0.50
1:I:121:LEU:HD12	1:I:145:PHE:HD2	1.87	0.50
1:I:469:GLN:O	1:I:496:THR:HB	2.42	0.50
1:J:154:GLN:HG3	1:J:155:LYS:CE	2.69	0.50
1:J:398:VAL:HG11	1:J:415:TRP:CE3	2.58	0.50
1:J:568:VAL:HG23	1:J:569:GLY:H	1.75	0.50
1:K:109:ILE:O	1:K:109:ILE:HG13	2.12	0.50
1:K:114:VAL:CB	1:K:118:ASN:HD21	2.54	0.50
1:K:120:ALA:HB2	1:K:164:GLN:NE2	2.66	0.50
1:K:504:ARG:HA	1:K:504:ARG:HH11	1.76	0.50
1:L:145:PHE:HE2	1:L:150:THR:HA	1.77	0.50
1:L:221:LEU:HD12	1:L:253:VAL:HG13	1.92	0.50
1:L:574:ALA:O	1:L:578:ARG:HG3	2.10	0.50
1:L:68:ASP:HA	1:L:90:ILE:HA	1.94	0.50
1:M:273:ILE:CD1	1:M:316:LEU:HD21	2.81	0.50
1:M:328:GLU:O	1:M:329:GLN:C	2.63	0.50
1:M:341:GLU:O	1:M:341:GLU:OE1	2.29	0.50
1:M:2:ALA:HB3	1:M:46:ALA:O	2.17	0.50
1:M:704:LYS:HD2	1:N:712:MET:HB3	1.94	0.50
1:N:46:ALA:N	1:N:47:PRO:HD3	2.25	0.50
1:O:159:VAL:HG12	1:O:160:VAL:HG22	1.94	0.50
1:O:183:PHE:CA	1:O:190:ARG:HD3	2.41	0.50
1:O:285:LEU:HD12	1:O:315:ARG:HD2	1.92	0.50
1:O:415:TRP:CH2	1:O:417:LYS:HB3	2.47	0.50
1:O:418:GLU:HG2	1:O:423:VAL:HG22	1.93	0.50
1:O:723:LYS:O	1:O:727:GLU:HB2	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:811:ALA:C	1:O:813:ALA:H	2.15	0.50
1:P:184:ASP:HB2	1:P:189:GLY:O	2.12	0.50
1:P:87:ASP:CG	1:P:88:GLN:N	2.61	0.50
1:Q:30:VAL:HG13	1:Q:74:LEU:HD11	1.92	0.50
1:Q:6:ALA:HA	1:Q:41:GLU:O	2.11	0.50
1:R:587:THR:HG23	1:R:590:ASP:HB2	1.93	0.50
1:Q:766:ARG:HG2	1:R:772:TYR:CD1	2.46	0.50
1:S:154:GLN:HG3	1:S:155:LYS:CE	2.41	0.50
1:V:122:HIS:O	1:V:159:VAL:N	2.38	0.50
1:V:19:LEU:HA	1:V:32:PRO:HB3	1.94	0.50
1:V:660:LEU:HA	1:V:663:GLU:CB	2.42	0.50
1:W:221:LEU:CD2	1:W:256:THR:CG2	2.90	0.50
1:X:587:THR:HG23	1:X:590:ASP:HB2	1.93	0.50
1:Z:387:GLY:HA3	1:Z:402:ILE:HG22	1.93	0.50
1:A:8:ILE:CD1	1:Z:49:ARG:HH22	287.66	0.50
1:Z:3:THR:HG22	1:Z:50:MET:HE1	1.91	0.50
1:A:274:THR:HG21	1:Z:296:LEU:HB2	308.76	0.50
1:A:279:ARG:O	1:A:323:VAL:N	2.42	0.50
1:A:394:LYS:HA	1:B:329:GLN:CD	2.65	0.50
1:A:3:THR:CG2	1:A:50:MET:HE1	2.60	0.50
1:A:543:TYR:CE2	1:A:575:ILE:HG21	2.46	0.50
1:A:71:SER:OG	1:A:84:ARG:O	2.54	0.50
1:B:16:ILE:HD13	1:B:34:THR:HG21	1.92	0.50
1:B:196:TRP:HA	1:B:196:TRP:CE3	2.60	0.50
1:C:337:LEU:HD23	1:C:337:LEU:N	2.40	0.50
1:C:426:LEU:HD11	1:C:458:VAL:HG13	1.93	0.50
1:D:165:ALA:O	1:D:203:ALA:O	2.30	0.50
1:D:399:ARG:HG2	1:D:399:ARG:HH11	2.16	0.50
1:D:60:ILE:HG13	1:D:92:LEU:O	4.01	0.50
1:E:243:HIS:NE2	1:E:249:TRP:CE2	2.80	0.50
1:E:244:ARG:HB2	1:E:247:GLU:OE1	2.11	0.50
1:E:339:PRO:HG2	1:E:370:LYS:HE2	2.59	0.50
1:G:676:GLU:O	1:G:679:ARG:N	2.85	0.50
1:G:92:LEU:HD12	1:G:94:GLN:NE2	2.59	0.50
1:H:124:LYS:HG3	1:H:125:ALA:N	2.25	0.50
1:J:155:LYS:HZ2	1:J:155:LYS:HB2	1.76	0.50
1:J:327:SER:HB2	1:J:331:GLY:N	2.26	0.50
1:J:36:ILE:CD1	1:J:58:TYR:CE1	2.87	0.50
1:J:522:PHE:C	1:J:522:PHE:CD2	2.84	0.50
1:K:285:LEU:HB2	1:K:315:ARG:HG2	1.93	0.50
1:K:337:LEU:N	1:K:337:LEU:HD23	2.40	0.50
1:K:8:ILE:HD13	1:K:8:ILE:N	4.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:115:VAL:HA	1:L:147:GLY:O	2.15	0.50
1:L:132:LYS:NZ	1:L:152:ILE:HD12	2.62	0.50
1:L:249:TRP:CD1	1:L:249:TRP:N	2.80	0.50
1:L:296:LEU:HD22	1:L:296:LEU:N	2.27	0.50
1:L:273:ILE:CG2	1:L:310:LEU:HD11	2.77	0.50
1:L:533:ASP:OD1	1:L:588:PHE:N	2.62	0.50
1:M:529:ILE:HD12	1:M:583:VAL:CG1	2.38	0.50
1:M:568:VAL:HG23	1:M:569:GLY:H	1.77	0.50
1:N:276:LEU:N	1:N:280:HIS:HB2	2.27	0.50
1:N:281:TYR:HE1	1:N:321:GLN:HB2	1.76	0.50
1:N:547:PHE:CD2	1:N:561:LEU:HD23	2.45	0.50
1:P:391:GLN:HB2	1:P:398:VAL:HG22	1.94	0.50
1:Q:540:GLN:HB2	1:Q:642:SER:HB3	1.93	0.50
1:S:67:ARG:HE	1:S:107:LYS:C	2.15	0.50
1:S:377:ARG:NH1	1:S:408:LEU:O	2.45	0.50
1:T:119:THR:HG23	1:T:163:ILE:HG23	1.93	0.50
1:T:8:ILE:HA	1:T:40:ASN:HD22	1.76	0.50
1:U:419:LEU:HD23	1:U:422:GLY:H	1.75	0.50
1:V:267:VAL:O	1:V:268:LEU:HB2	2.12	0.50
1:U:755:THR:HG21	1:V:761:ARG:HG2	1.92	0.50
1:W:109:ILE:HD11	1:W:153:PRO:HB2	1.92	0.50
1:X:398:VAL:HG11	1:X:415:TRP:CD2	2.47	0.50
1:X:698:GLU:HA	1:X:698:GLU:OE2	2.12	0.50
1:A:310:LEU:HD21	1:A:316:LEU:HG	2.39	0.50
1:A:58:TYR:CD1	1:A:98:PRO:HA	2.47	0.50
1:A:72:SER:HB3	1:A:84:ARG:NH2	2.59	0.50
1:B:109:ILE:HD12	1:B:153:PRO:CB	2.67	0.50
1:B:123:LEU:HA	1:B:158:GLU:HA	1.93	0.50
1:B:697:SER:CA	1:C:706:LEU:HD23	2.42	0.50
1:B:751:LEU:O	1:B:755:THR:HB	2.25	0.50
1:B:89:GLU:C	1:B:90:ILE:HD13	5.71	0.50
1:C:527:ILE:HD12	1:C:527:ILE:C	2.31	0.50
1:D:104:VAL:HG22	1:D:105:LEU:H	2.11	0.50
1:D:332:LEU:HG	1:D:360:ARG:HB2	2.03	0.50
1:D:54:PRO:CB	1:D:55:PRO:HD3	2.26	0.50
1:D:30:VAL:HG13	1:D:74:LEU:HD11	2.35	0.50
1:E:111:PRO:HB2	1:E:150:THR:HG21	2.13	0.50
1:E:18:VAL:H	1:E:48:VAL:CG1	2.21	0.50
1:E:327:SER:OG	1:E:331:GLY:CA	2.60	0.50
1:E:401:VAL:HG11	1:E:406:TYR:CG	2.47	0.50
1:E:507:ARG:HB2	1:E:510:ALA:HB2	2.10	0.50
1:F:206:PRO:HB2	1:F:209:PHE:CD2	2.49	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:243:HIS:NE2	1:F:249:TRP:CE2	2.79	0.50
1:F:234:ASN:ND2	1:F:245:THR:H	2.28	0.50
1:F:70:GLN:O	1:F:70:GLN:HG3	2.11	0.50
1:G:234:ASN:HD22	1:G:234:ASN:N	2.30	0.50
1:G:68:ASP:HA	1:G:90:ILE:HA	2.27	0.50
1:H:472:ASP:CA	1:H:493:GLU:HB3	2.39	0.50
1:H:69:THR:HA	1:H:106:GLU:CB	2.59	0.50
1:J:285:LEU:HD13	1:J:315:ARG:HH11	2.24	0.50
1:J:311:GLN:CB	1:J:312:PRO:HD2	2.40	0.50
1:J:54:PRO:CB	1:J:55:PRO:HD3	2.36	0.50
1:J:571:ALA:O	1:J:575:ILE:HG13	3.54	0.50
1:J:719:THR:O	1:J:723:LYS:HB2	2.45	0.50
1:K:334:LEU:HD23	1:K:357:TRP:O	2.12	0.50
1:K:398:VAL:HG11	1:K:415:TRP:CE3	2.63	0.50
1:L:194:GLU:HG2	1:L:195:GLU:H	1.76	0.50
1:K:354:GLY:C	1:L:328:GLU:HG3	5.25	0.50
1:L:770:LEU:HD21	1:M:776:GLN:HG3	3.09	0.50
1:M:388:ILE:HD13	1:M:388:ILE:H	1.77	0.50
1:M:803:GLY:HA3	1:M:806:THR:HB	1.95	0.50
1:O:146:GLU:HA	1:O:146:GLU:OE1	2.12	0.50
1:O:273:ILE:HG21	1:O:316:LEU:HD11	1.94	0.50
1:P:465:ASN:HB3	1:P:519:GLY:HA3	1.94	0.50
1:R:176:LEU:HB2	1:R:196:TRP:HB2	1.94	0.50
1:T:144:LEU:HD12	1:T:144:LEU:N	2.26	0.50
1:W:126:LEU:HB2	1:W:157:VAL:HG23	1.92	0.50
1:X:164:GLN:HG3	1:X:204:TYR:HB3	1.94	0.50
1:X:752:ALA:O	1:X:755:THR:HG22	2.12	0.50
1:Y:14:HIS:HB2	1:Y:56:ARG:HB2	1.94	0.50
1:Y:30:VAL:HG22	1:Y:74:LEU:CG	2.39	0.50
1:Y:687:ARG:O	1:Y:690:ARG:HB3	2.11	0.50
1:Z:244:ARG:O	1:Z:247:GLU:HB2	2.12	0.50
1:Z:660:LEU:HA	1:Z:663:GLU:HB3	1.94	0.50
1:A:281:TYR:CE1	1:A:321:GLN:HB2	2.47	0.50
1:C:339:PRO:HD2	1:C:370:LYS:HB3	1.94	0.50
1:C:336:ALA:HA	1:C:356:CYS:CB	2.64	0.50
1:C:543:TYR:CE2	1:C:575:ILE:HG21	2.46	0.50
1:D:276:LEU:O	1:D:277:GLY:C	2.64	0.50
1:D:415:TRP:CZ3	1:D:417:LYS:HB3	2.47	0.50
1:E:398:VAL:HG11	1:E:415:TRP:CE3	2.68	0.50
1:F:120:ALA:O	1:F:161:GLU:HA	2.25	0.50
1:F:165:ALA:HB3	1:F:174:LEU:HD11	1.98	0.50
1:F:395:THR:C	1:F:397:LYS:H	2.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:469:GLN:HB3	1:F:496:THR:CG2	2.41	0.50
1:F:501:SER:HB3	1:F:508:PRO:HA	1.93	0.50
1:F:67:ARG:HH21	1:F:107:LYS:CA	2.47	0.50
1:G:14:HIS:HB3	1:G:56:ARG:HG3	2.31	0.50
1:G:19:LEU:HA	1:G:32:PRO:HB2	1.93	0.50
1:G:5:GLU:HB2	1:G:41:GLU:OE1	2.40	0.50
1:H:251:VAL:HG23	1:H:254:GLN:NE2	2.18	0.50
1:H:260:VAL:O	1:H:262:ASP:N	2.53	0.50
1:I:481:VAL:O	1:I:481:VAL:HG13	2.12	0.50
1:K:109:ILE:HD12	1:K:153:PRO:HG2	1.94	0.50
1:J:354:GLY:O	1:K:328:GLU:HG3	4.12	0.50
1:K:56:ARG:HD2	1:K:99:LEU:HD21	2.23	0.50
1:L:3:THR:CG2	1:L:50:MET:CE	2.93	0.50
1:L:649:ARG:HH21	1:M:655:GLN:HG2	2.46	0.50
1:M:335:LYS:HG2	1:M:373:VAL:HA	2.45	0.50
1:M:389:TYR:HB2	1:M:415:TRP:O	2.12	0.50
1:M:627:VAL:HG22	1:M:634:VAL:HG22	2.17	0.50
1:N:130:GLU:HB2	1:N:136:LYS:CA	2.34	0.50
1:N:568:VAL:HG23	1:N:569:GLY:H	1.77	0.50
1:M:762:VAL:HG12	1:N:768:MET:HE2	1.94	0.50
1:Q:1:MET:O	1:Q:2:ALA:HB2	2.12	0.50
1:Q:452:ARG:NH1	1:Q:452:ARG:HG3	2.23	0.50
1:R:116:LEU:CB	1:R:117:PRO:HD2	2.36	0.50
1:R:324:TYR:HB2	1:R:365:TYR:O	2.11	0.50
1:S:327:SER:H	1:S:331:GLY:HA3	1.76	0.50
1:R:474:ARG:HH22	1:S:384:GLN:HG2	1.77	0.50
1:S:70:GLN:HE21	1:S:104:VAL:HG12	1.77	0.50
1:T:389:TYR:CZ	1:T:457:VAL:HA	2.47	0.50
1:W:18:VAL:N	1:W:48:VAL:HG13	2.18	0.50
1:X:333:LEU:HB2	1:X:359:ILE:CD1	2.42	0.50
1:Y:227:LEU:HB2	1:Y:251:VAL:HG12	1.94	0.50
1:Z:302:VAL:HG21	1:Z:308:PHE:CE2	2.47	0.50
1:Z:3:THR:HG22	1:Z:50:MET:HE3	1.93	0.50
1:A:276:LEU:N	1:A:280:HIS:HB2	2.27	0.50
1:A:63:ASN:N	1:A:64:PRO:HD2	2.29	0.50
1:A:679:ARG:HH21	1:A:680:LEU:HD21	2.04	0.50
1:B:766:ARG:O	1:B:770:LEU:HB2	2.29	0.50
1:C:795:PHE:O	1:C:799:THR:HG22	2.34	0.50
1:D:414:LEU:HD23	1:D:455:THR:CB	3.16	0.50
1:E:175:ARG:NH2	1:E:263:VAL:HG13	2.62	0.50
1:F:390:VAL:HG12	1:F:408:LEU:CD2	2.38	0.50
1:F:462:VAL:HB	1:F:485:GLU:O	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:495:PHE:CB	1:F:514:LEU:HD11	2.59	0.50
1:F:523:PHE:CD1	1:F:545:TRP:NE1	2.80	0.50
1:F:591:PHE:HZ	1:F:599:ILE:HD11	1.77	0.50
1:F:655:GLN:O	1:F:658:VAL:HG12	2.28	0.50
1:G:327:SER:CA	1:G:331:GLY:HA3	2.42	0.50
1:I:24:ASN:ND2	1:I:30:VAL:HB	2.27	0.50
1:I:533:ASP:CG	1:I:588:PHE:H	2.15	0.50
1:I:605:GLY:HA3	1:I:623:ARG:HH21	1.77	0.50
1:J:11:PRO:HB2	1:J:12:PRO:HD3	2.04	0.50
1:J:151:TYR:HD2	1:J:152:ILE:CD1	3.00	0.50
1:J:185:ARG:HG3	1:J:206:PRO:CB	2.42	0.50
1:J:243:HIS:NE2	1:J:249:TRP:CE2	2.88	0.50
1:J:24:ASN:ND2	1:J:30:VAL:HB	2.27	0.50
1:K:3:THR:HG22	1:K:50:MET:HE1	1.94	0.50
1:K:587:THR:HG23	1:K:590:ASP:HB2	1.94	0.50
1:L:122:HIS:HB3	1:L:160:VAL:H	1.79	0.50
1:L:165:ALA:O	1:L:203:ALA:O	2.45	0.50
1:M:30:VAL:HG22	1:M:74:LEU:HD11	1.94	0.50
1:N:529:ILE:HD12	1:N:583:VAL:HG11	1.94	0.50
1:O:174:LEU:HB2	1:O:198:VAL:HB	1.94	0.50
1:P:533:ASP:OD1	1:P:587:THR:HA	2.12	0.50
1:O:580:ARG:HH22	1:P:595:SER:HB2	1.77	0.50
1:P:539:LEU:HD22	1:P:643:VAL:HG22	1.92	0.50
1:P:30:VAL:HG13	1:P:74:LEU:HD11	1.94	0.50
1:Q:165:ALA:HB2	1:Q:211:GLU:OE2	2.11	0.50
1:Q:287:PRO:O	1:Q:295:GLN:HB2	2.11	0.50
1:Q:523:PHE:CD1	1:Q:568:VAL:HG12	2.47	0.50
1:Q:60:ILE:CD1	1:Q:60:ILE:H	2.19	0.50
1:S:230:ARG:HH11	1:S:230:ARG:HB3	1.77	0.50
1:R:654:LEU:HD11	1:S:662:ILE:HG21	1.94	0.50
1:T:175:ARG:HA	1:T:196:TRP:O	2.11	0.50
1:U:43:VAL:HG12	1:U:45:PHE:O	2.12	0.50
1:V:605:GLY:O	1:V:623:ARG:HB2	2.12	0.50
1:V:65:VAL:HA	1:V:110:THR:HA	1.94	0.50
1:W:1:MET:O	1:W:2:ALA:HB2	2.12	0.50
1:X:182:CYS:SG	1:X:208:VAL:HB	2.51	0.50
1:X:597:ARG:HG3	1:X:600:ARG:NH2	2.24	0.50
1:Z:251:VAL:HG23	1:Z:254:GLN:NE2	2.27	0.50
1:Z:395:THR:HB	1:Z:397:LYS:HB3	1.94	0.50
1:A:109:ILE:HD12	1:A:153:PRO:HB2	2.32	0.49
1:A:130:GLU:HA	1:A:137:VAL:HG13	1.93	0.49
1:A:807:ILE:HD13	1:B:806:THR:CG2	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:332:LEU:HD11	1:B:379:ALA:HB2	1.94	0.49
1:C:291:ASP:C	1:C:293:LYS:H	2.16	0.49
1:C:360:ARG:HD2	1:C:407:MET:HG2	1.93	0.49
1:D:533:ASP:OD1	1:D:587:THR:HA	2.32	0.49
1:D:549:LEU:HD12	1:D:552:ARG:HA	2.13	0.49
1:E:10:ILE:HG23	1:E:11:PRO:HD2	2.09	0.49
1:E:185:ARG:NH2	1:E:208:VAL:HG22	2.27	0.49
1:E:381:PRO:HA	1:E:405:THR:CB	2.42	0.49
1:E:415:TRP:CH2	1:E:417:LYS:HB3	2.52	0.49
1:E:536:ARG:HB2	1:E:646:VAL:HB	1.94	0.49
1:F:470:VAL:HB	1:F:479:ARG:HD2	1.93	0.49
1:E:589:ASP:HB2	1:F:665:THR:HG21	2.07	0.49
1:F:717:GLU:O	1:F:721:ASN:HB2	2.40	0.49
1:F:58:TYR:CD1	1:F:98:PRO:HA	3.26	0.49
1:G:120:ALA:O	1:G:161:GLU:HA	2.21	0.49
1:G:179:ARG:NH2	1:G:209:PHE:O	2.45	0.49
1:G:389:TYR:CE1	1:G:457:VAL:HA	2.47	0.49
1:G:676:GLU:OE1	1:G:676:GLU:HA	2.27	0.49
1:H:124:LYS:HG2	1:H:157:VAL:O	2.12	0.49
1:H:324:TYR:O	1:H:365:TYR:N	2.47	0.49
1:I:65:VAL:HG12	1:I:110:THR:CG2	2.38	0.49
1:I:10:ILE:HD13	1:I:13:TYR:CD2	2.47	0.49
1:I:273:ILE:CD1	1:I:316:LEU:HD11	2.42	0.49
1:H:476:LYS:HE2	1:I:485:GLU:OE1	2.55	0.49
1:I:802:LEU:HD12	1:I:806:THR:HG22	1.94	0.49
1:J:167:VAL:HG22	1:J:201:VAL:O	4.77	0.49
1:L:122:HIS:CG	1:L:159:VAL:HB	2.66	0.49
1:L:759:LEU:HD11	1:M:764:LYS:HB3	2.06	0.49
1:M:165:ALA:CB	1:M:174:LEU:HD11	2.57	0.49
1:M:472:ASP:HB3	1:M:477:ARG:HB2	1.93	0.49
1:N:233:GLN:OE1	1:O:169:LYS:HD2	2.12	0.49
1:N:388:ILE:HD13	1:N:388:ILE:H	1.76	0.49
1:O:109:ILE:CD1	1:O:153:PRO:HB2	2.40	0.49
1:O:220:ILE:CD1	1:O:251:VAL:HG13	2.41	0.49
1:P:115:VAL:HB	1:P:148:PRO:HA	1.94	0.49
1:P:332:LEU:HD21	1:P:407:MET:HB3	1.94	0.49
1:Q:2:ALA:HB3	1:Q:46:ALA:O	2.12	0.49
1:Q:662:ILE:O	1:Q:666:THR:HB	2.12	0.49
1:Q:697:SER:CA	1:R:706:LEU:HD23	2.42	0.49
1:R:164:GLN:NE2	1:R:204:TYR:HB3	2.26	0.49
1:R:249:TRP:CD1	1:R:249:TRP:N	2.80	0.49
1:R:279:ARG:O	1:R:323:VAL:N	2.36	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:1:MET:O	1:R:2:ALA:HB2	2.11	0.49
1:T:281:TYR:HE1	1:T:321:GLN:HB2	1.75	0.49
1:U:571:ALA:O	1:U:575:ILE:HG12	2.12	0.49
1:U:654:LEU:HD12	1:V:662:ILE:HD12	1.93	0.49
1:Y:58:TYR:CD1	1:Y:99:LEU:HD12	2.47	0.49
1:Z:100:TYR:HB3	1:Z:101:PRO:CD	2.42	0.49
1:Z:330:GLN:CG	1:Z:379:ALA:HB3	2.42	0.49
1:A:125:ALA:HB1	1:A:128:ASP:HB3	2.16	0.49
1:A:236:ARG:CZ	1:A:236:ARG:HB3	2.41	0.49
1:A:8:ILE:HG22	1:A:40:ASN:HD21	1.76	0.49
1:B:303:LYS:H	1:B:306:LYS:HZ2	1.58	0.49
1:B:522:PHE:HD2	1:B:522:PHE:C	2.16	0.49
1:B:533:ASP:OD1	1:B:587:THR:HA	2.26	0.49
1:C:551:ASN:HB2	1:C:557:GLU:OE2	2.42	0.49
1:C:63:ASN:N	1:C:64:PRO:HD2	2.27	0.49
1:E:1:MET:O	1:E:2:ALA:HB2	2.12	0.49
1:E:332:LEU:CD2	1:E:358:LEU:HD11	2.69	0.49
1:E:568:VAL:HG23	1:E:569:GLY:H	1.76	0.49
1:F:368:SER:HB3	1:F:371:VAL:HG23	1.92	0.49
1:G:122:HIS:HB3	1:G:160:VAL:H	2.09	0.49
1:G:7:ILE:N	1:G:7:ILE:HD12	4.39	0.49
1:H:115:VAL:O	1:H:118:ASN:CB	2.95	0.49
1:H:419:LEU:HD12	1:H:494:GLN:NE2	2.26	0.49
1:I:123:LEU:CG	1:I:143:TRP:HB2	2.41	0.49
1:I:329:GLN:OE1	1:I:330:GLN:HB2	2.34	0.49
1:I:332:LEU:HD22	1:I:377:ARG:HD2	2.30	0.49
1:H:745:LYS:CG	1:I:753:ILE:HD13	2.44	0.49
1:I:765:VAL:O	1:I:768:MET:HB2	2.12	0.49
1:J:337:LEU:HD21	1:J:352:GLN:O	2.29	0.49
1:J:5:GLU:O	1:J:41:GLU:O	2.30	0.49
1:J:485:GLU:HG2	1:J:486:LEU:H	1.74	0.49
1:K:319:GLY:C	1:K:320:ILE:HD13	2.32	0.49
1:K:529:ILE:HD12	1:K:529:ILE:C	2.33	0.49
1:L:230:ARG:HB3	1:L:230:ARG:NH1	2.68	0.49
1:L:311:GLN:HB2	1:L:314:GLU:HG3	1.95	0.49
1:L:523:PHE:CD1	1:L:568:VAL:HG12	2.50	0.49
1:L:781:VAL:HG22	1:M:787:LEU:CD2	2.82	0.49
1:N:18:VAL:H	1:N:48:VAL:CG1	2.18	0.49
1:N:227:LEU:O	1:N:250:LEU:HA	2.13	0.49
1:O:236:ARG:NH1	1:O:236:ARG:HB3	2.27	0.49
1:P:812:VAL:HG12	1:P:812:VAL:O	2.12	0.49
1:Q:165:ALA:O	1:Q:203:ALA:O	2.30	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:252:THR:O	1:Q:253:VAL:C	2.50	0.49
1:P:354:GLY:HA3	1:Q:328:GLU:OE2	2.11	0.49
1:Q:398:VAL:HG11	1:Q:415:TRP:CE3	2.47	0.49
1:Q:522:PHE:C	1:Q:522:PHE:CD2	2.86	0.49
1:R:119:THR:HG23	1:R:163:ILE:HG23	1.93	0.49
1:Q:704:LYS:HD2	1:R:712:MET:HB3	1.93	0.49
1:S:606:PHE:HB2	1:S:622:ALA:HA	1.94	0.49
1:T:124:LYS:O	1:T:156:GLU:HA	2.11	0.49
1:U:100:TYR:HB3	1:U:101:PRO:CD	2.40	0.49
1:U:252:THR:H	1:U:254:GLN:HE21	1.59	0.49
1:U:221:LEU:HD21	1:U:256:THR:HG21	1.94	0.49
1:U:623:ARG:HG3	1:U:624:ASP:H	1.75	0.49
1:V:286:ASP:N	1:V:287:PRO:HD3	2.26	0.49
1:W:285:LEU:HD12	1:W:315:ARG:HD2	1.95	0.49
1:X:273:ILE:CD1	1:X:316:LEU:HD21	2.42	0.49
1:X:337:LEU:HG	1:X:354:GLY:H	1.76	0.49
1:X:549:LEU:HD12	1:X:552:ARG:HA	1.94	0.49
1:Y:64:PRO:HA	1:Y:111:PRO:HD2	1.94	0.49
1:Z:183:PHE:HE2	1:Z:188:LYS:O	1.95	0.49
1:Z:16:ILE:HB	1:Z:51:VAL:HB	1.94	0.49
1:A:402:ILE:HD12	1:A:402:ILE:O	4.46	0.49
1:A:564:VAL:CG2	1:A:631:ASN:ND2	2.75	0.49
1:B:67:ARG:HE	1:B:107:LYS:C	2.15	0.49
1:B:90:ILE:HG21	1:B:154:GLN:HB2	1.94	0.49
1:C:228:HIS:NE2	1:C:312:PRO:HB3	2.32	0.49
1:C:587:THR:HG23	1:C:590:ASP:HB3	2.02	0.49
1:D:9:ARG:CZ	1:D:15:TYR:HB3	2.42	0.49
1:D:220:ILE:O	1:D:253:VAL:HG22	2.49	0.49
1:D:30:VAL:HG22	1:D:74:LEU:HD11	1.94	0.49
1:E:217:ASP:HB2	1:E:258:ALA:HA	2.21	0.49
1:E:533:ASP:OD1	1:E:587:THR:HA	2.37	0.49
1:D:589:ASP:HB2	1:E:665:THR:HG21	1.94	0.49
1:E:759:LEU:HD11	1:F:764:LYS:HB3	2.33	0.49
1:E:7:ILE:N	1:E:7:ILE:HD12	4.40	0.49
1:F:10:ILE:HD13	1:F:13:TYR:CD2	2.48	0.49
1:F:327:SER:HB2	1:F:331:GLY:HA2	1.87	0.49
1:F:524:THR:HG22	1:F:542:ALA:HB2	2.60	0.49
1:F:70:GLN:HG2	1:F:104:VAL:N	2.27	0.49
1:G:194:GLU:HG2	1:G:195:GLU:N	2.27	0.49
1:G:325:VAL:HA	1:G:364:GLU:HA	2.06	0.49
1:G:415:TRP:CH2	1:G:417:LYS:HB3	2.47	0.49
1:H:65:VAL:HG12	1:H:110:THR:CG2	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:67:ARG:HH21	1:H:107:LYS:CA	2.24	0.49
1:H:72:SER:HB3	1:H:84:ARG:HH21	1.77	0.49
1:I:108:ASP:N	1:I:108:ASP:OD1	2.72	0.49
1:I:176:LEU:HA	1:I:210:GLU:O	2.12	0.49
1:I:252:THR:H	1:I:254:GLN:NE2	2.10	0.49
1:I:476:LYS:HE3	1:J:485:GLU:HG3	2.50	0.49
1:I:600:ARG:HH12	1:I:622:ALA:HB3	1.95	0.49
1:J:185:ARG:HH22	1:J:207:ALA:HB3	1.88	0.49
1:J:551:ASN:CB	1:J:554:ASP:HB3	2.41	0.49
1:K:763:LYS:O	1:K:767:GLU:HB2	2.85	0.49
1:L:175:ARG:HB2	1:L:213:LEU:O	2.12	0.49
1:L:17:HIS:CD2	1:L:18:VAL:HG22	2.47	0.49
1:L:288:MET:HE1	1:L:312:PRO:HG2	1.94	0.49
1:L:623:ARG:HG2	1:L:624:ASP:H	2.01	0.49
1:M:113:GLN:O	1:M:114:VAL:HG13	2.12	0.49
1:M:159:VAL:HG12	1:M:160:VAL:HG22	2.38	0.49
1:M:208:VAL:HG23	1:M:209:PHE:HD2	1.77	0.49
1:M:337:LEU:HG	1:M:354:GLY:H	1.81	0.49
1:N:155:LYS:H	1:N:155:LYS:HZ2	1.58	0.49
1:N:164:GLN:HB3	1:N:204:TYR:HA	1.94	0.49
1:O:16:ILE:HB	1:O:51:VAL:HB	1.93	0.49
1:O:1:MET:O	1:O:2:ALA:HB2	2.12	0.49
1:O:217:ASP:OD1	1:O:257:GLU:O	2.29	0.49
1:P:213:LEU:CD1	1:P:214:ASP:H	2.25	0.49
1:Q:352:GLN:O	1:Q:353:ALA:C	2.50	0.49
1:Q:70:GLN:HG3	1:Q:70:GLN:O	2.11	0.49
1:R:685:ARG:O	1:R:689:GLU:HB2	2.12	0.49
1:R:752:ALA:HA	1:R:755:THR:HG22	1.94	0.49
1:S:341:GLU:HG2	1:S:370:LYS:HD3	1.93	0.49
1:T:383:ASP:HB2	1:T:386:GLU:HG2	1.94	0.49
1:T:529:ILE:CD1	1:T:539:LEU:HD11	2.42	0.49
1:S:697:SER:HA	1:T:706:LEU:HD23	1.94	0.49
1:U:13:TYR:HB3	1:U:54:PRO:O	2.13	0.49
1:U:182:CYS:SG	1:U:208:VAL:HG23	2.53	0.49
1:U:230:ARG:HH11	1:U:230:ARG:HB3	1.78	0.49
1:U:69:THR:O	1:U:89:GLU:N	2.44	0.49
1:V:623:ARG:CG	1:V:624:ASP:N	2.75	0.49
1:V:759:LEU:HD11	1:W:764:LYS:HB3	1.94	0.49
1:W:120:ALA:HB3	1:W:162:ILE:HG13	1.94	0.49
1:X:154:GLN:HG3	1:X:155:LYS:HG3	1.95	0.49
1:Y:130:GLU:N	1:Y:137:VAL:HG13	2.21	0.49
1:Y:296:LEU:HB2	1:Z:274:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:601:MET:HG3	1:Y:622:ALA:HB2	1.93	0.49
1:X:774:ARG:HG3	1:Y:779:LEU:HD21	1.94	0.49
1:Z:220:ILE:HD13	1:Z:251:VAL:HG13	1.94	0.49
1:Z:330:GLN:HA	1:Z:330:GLN:OE1	2.11	0.49
1:Z:30:VAL:HG13	1:Z:74:LEU:HD11	1.94	0.49
1:A:49:ARG:NH2	1:B:8:ILE:HD13	2.94	0.49
1:B:17:HIS:CD2	1:B:18:VAL:HG22	2.48	0.49
1:B:291:ASP:C	1:B:293:LYS:H	2.35	0.49
1:A:354:GLY:HA3	1:B:328:GLU:OE2	4.88	0.49
1:C:129:PHE:HA	1:C:137:VAL:HG22	3.17	0.49
1:C:215:LEU:HB3	1:C:259:HIS:NE2	2.27	0.49
1:C:217:ASP:OD1	1:C:257:GLU:O	2.33	0.49
1:C:13:TYR:O	1:C:36:ILE:HG12	2.12	0.49
1:C:332:LEU:HD11	1:C:379:ALA:HB2	1.96	0.49
1:C:469:GLN:O	1:C:496:THR:HB	2.12	0.49
1:C:597:ARG:HG3	1:C:600:ARG:HH21	1.77	0.49
1:D:260:VAL:CB	1:D:263:VAL:HA	2.58	0.49
1:F:803:GLY:HA3	1:F:806:THR:HB	1.94	0.49
1:G:217:ASP:HB2	1:G:258:ALA:HA	2.11	0.49
1:G:16:ILE:HD13	1:G:34:THR:HG21	1.93	0.49
1:G:340:LEU:HG	1:G:353:ALA:H	2.60	0.49
1:G:36:ILE:O	1:G:36:ILE:HG13	3.74	0.49
1:G:533:ASP:OD1	1:G:587:THR:HA	2.20	0.49
1:G:57:HIS:O	1:G:99:LEU:HD11	2.40	0.49
1:H:176:LEU:HA	1:H:210:GLU:O	2.12	0.49
1:H:326:LEU:CD2	1:H:333:LEU:HG	2.67	0.49
1:H:799:THR:HG21	1:I:801:ALA:HB1	1.98	0.49
1:I:182:CYS:SG	1:I:208:VAL:HG21	2.72	0.49
1:I:273:ILE:HG13	1:I:308:PHE:HB3	2.00	0.49
1:I:380:ILE:HD12	1:I:406:TYR:O	2.27	0.49
1:I:517:LEU:HD12	1:I:517:LEU:N	2.68	0.49
1:J:175:ARG:HA	1:J:196:TRP:O	2.24	0.49
1:J:1:MET:O	1:J:2:ALA:HB2	2.14	0.49
1:J:205:LEU:CD2	1:J:211:GLU:HB2	2.43	0.49
1:J:328:GLU:HA	1:J:362:PRO:HA	1.94	0.49
1:J:418:GLU:HG2	1:J:423:VAL:HG22	1.95	0.49
1:K:18:VAL:H	1:K:48:VAL:CG1	2.26	0.49
1:K:90:ILE:O	1:K:90:ILE:HD12	2.12	0.49
1:M:551:ASN:HB3	1:M:554:ASP:CB	2.41	0.49
1:M:568:VAL:HG23	1:M:569:GLY:N	2.28	0.49
1:M:594:ASN:O	1:M:595:SER:C	2.51	0.49
1:N:329:GLN:OE1	1:N:330:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:762:VAL:HG12	1:N:768:MET:CE	2.43	0.49
1:O:120:ALA:HB2	1:O:164:GLN:NE2	2.28	0.49
1:O:519:GLY:O	1:O:521:ASP:N	2.44	0.49
1:N:649:ARG:HH21	1:O:655:GLN:HG2	1.77	0.49
1:P:286:ASP:HB3	1:P:296:LEU:HA	1.93	0.49
1:P:324:TYR:O	1:P:365:TYR:N	2.39	0.49
1:O:394:LYS:HG2	1:P:329:GLN:HG3	1.94	0.49
1:P:596:ALA:O	1:P:600:ARG:HB2	2.12	0.49
1:P:692:LYS:HG2	1:P:696:GLN:HE21	1.76	0.49
1:Q:340:LEU:HD23	1:Q:352:GLN:HA	1.94	0.49
1:Q:534:HIS:CD2	1:R:654:LEU:HG	2.48	0.49
1:R:125:ALA:O	1:R:140:GLY:HA2	2.12	0.49
1:R:185:ARG:NH1	1:R:206:PRO:HB3	2.26	0.49
1:R:20:ASP:HB2	1:R:49:ARG:HD3	1.93	0.49
1:R:3:THR:HG22	1:R:50:MET:CE	2.41	0.49
1:R:653:ALA:CB	1:S:662:ILE:CD1	2.83	0.49
1:S:336:ALA:HA	1:S:356:CYS:CB	2.43	0.49
1:S:382:LEU:N	1:S:405:THR:HG22	2.26	0.49
1:T:332:LEU:HD21	1:T:407:MET:HB3	1.91	0.49
1:T:697:SER:HA	1:U:706:LEU:HD23	1.94	0.49
1:U:120:ALA:O	1:U:161:GLU:HA	2.13	0.49
1:U:653:ALA:HA	1:U:656:ARG:NH2	2.26	0.49
1:V:529:ILE:HG22	1:V:580:ARG:HB2	1.95	0.49
1:V:568:VAL:HG23	1:V:569:GLY:N	2.28	0.49
1:W:15:TYR:CE2	1:W:17:HIS:HB3	2.47	0.49
1:W:336:ALA:HA	1:W:356:CYS:HB3	1.93	0.49
1:W:587:THR:HG23	1:W:590:ASP:HB3	1.95	0.49
1:W:296:LEU:HD21	1:X:307:SER:HB3	1.95	0.49
1:X:36:ILE:HG13	1:X:36:ILE:O	2.12	0.49
1:X:601:MET:HG3	1:X:622:ALA:CB	2.41	0.49
1:Y:333:LEU:HB2	1:Y:359:ILE:HD12	1.94	0.49
1:A:14:HIS:ND1	1:A:36:ILE:HG22	2.27	0.49
1:A:220:ILE:HD12	1:A:220:ILE:O	2.12	0.49
1:A:506:LYS:HE2	1:A:524:THR:O	2.24	0.49
1:B:408:LEU:HD21	1:B:414:LEU:HD12	1.93	0.49
1:B:729:ARG:HB2	1:B:729:ARG:NH1	2.29	0.49
1:D:243:HIS:NE2	1:D:249:TRP:CE2	2.97	0.49
1:D:296:LEU:HD22	1:D:296:LEU:H	2.68	0.49
1:D:73:VAL:H	1:D:84:ARG:CB	2.25	0.49
1:E:69:THR:HA	1:E:106:GLU:HB3	1.95	0.49
1:E:120:ALA:HB2	1:E:164:GLN:NE2	2.53	0.49
1:E:502:ALA:HB3	1:E:510:ALA:HB3	2.62	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:76:ASP:HB3	1:E:80:GLN:O	3.10	0.49
1:F:165:ALA:HB2	1:F:211:GLU:OE2	2.71	0.49
1:F:485:GLU:HG2	1:F:486:LEU:N	2.27	0.49
1:F:623:ARG:CG	1:F:624:ASP:H	2.25	0.49
1:F:30:VAL:HG22	1:F:74:LEU:CG	2.43	0.49
1:G:106:GLU:O	1:G:107:LYS:HD2	2.17	0.49
1:H:67:ARG:HG2	1:H:108:ASP:HA	2.25	0.49
1:H:221:LEU:HD22	1:H:256:THR:CB	2.76	0.49
1:H:530:GLU:HA	1:H:535:ALA:O	2.12	0.49
1:H:60:ILE:CD1	1:H:93:ALA:HA	2.87	0.49
1:I:70:GLN:HG3	1:I:70:GLN:O	2.29	0.49
1:L:408:LEU:N	1:L:408:LEU:HD12	2.36	0.49
1:L:758:GLU:O	1:L:762:VAL:HG23	2.13	0.49
1:M:282:CYS:SG	1:M:302:VAL:HG23	2.84	0.49
1:N:14:HIS:HB3	1:N:56:ARG:HB2	1.93	0.49
1:N:165:ALA:CB	1:N:174:LEU:HD11	2.42	0.49
1:N:164:GLN:NE2	1:N:204:TYR:CB	2.75	0.49
1:O:36:ILE:HD13	1:O:36:ILE:O	2.11	0.49
1:P:234:ASN:N	1:P:234:ASN:HD22	2.09	0.49
1:Q:208:VAL:HG23	1:Q:209:PHE:HD2	1.77	0.49
1:Q:273:ILE:HG13	1:Q:308:PHE:HB3	1.94	0.49
1:R:183:PHE:HA	1:R:190:ARG:HB3	1.94	0.49
1:R:234:ASN:N	1:R:234:ASN:HD22	2.11	0.49
1:R:36:ILE:O	1:R:36:ILE:CD1	2.44	0.49
1:R:529:ILE:HD12	1:R:583:VAL:HG11	1.93	0.49
1:R:65:VAL:N	1:R:110:THR:HA	2.27	0.49
1:U:159:VAL:HG12	1:U:160:VAL:HG22	1.95	0.49
1:U:396:GLY:HA3	1:V:405:THR:HG23	1.94	0.49
1:V:194:GLU:HG2	1:V:195:GLU:N	2.27	0.49
1:V:621:LYS:HE3	1:V:621:LYS:HA	1.93	0.49
1:W:130:GLU:CA	1:W:137:VAL:H	2.21	0.49
1:W:113:GLN:NE2	1:W:150:THR:HG22	2.27	0.49
1:W:273:ILE:HG13	1:W:308:PHE:HB3	1.93	0.49
1:W:481:VAL:O	1:W:481:VAL:HG13	2.12	0.49
1:Z:336:ALA:HA	1:Z:356:CYS:HB3	1.93	0.49
1:Z:787:LEU:O	1:Z:790:VAL:HG12	2.13	0.49
1:A:179:ARG:CZ	1:A:210:GLU:HB2	2.42	0.49
1:A:176:LEU:HD23	1:A:211:GLU:HA	2.34	0.49
1:A:252:THR:O	1:A:254:GLN:N	2.46	0.49
1:A:273:ILE:CD1	1:A:308:PHE:HB3	2.42	0.49
1:A:417:LYS:HE3	1:A:491:PRO:O	2.13	0.49
1:B:167:VAL:HG22	1:B:201:VAL:HA	5.56	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:421:SER:O	1:B:422:GLY:C	2.82	0.49
1:B:537:LEU:HD23	1:B:645:PRO:HA	1.94	0.49
1:B:542:ALA:HB3	1:B:639:ASP:HB2	1.94	0.49
1:C:162:ILE:HD12	1:C:205:LEU:CD1	2.43	0.49
1:C:338:GLN:HB3	1:C:339:PRO:CD	2.77	0.49
1:C:90:ILE:CG2	1:C:154:GLN:HB2	2.42	0.49
1:D:65:VAL:HG12	1:D:110:THR:HG22	1.94	0.49
1:D:279:ARG:HA	1:D:323:VAL:HG22	1.95	0.49
1:D:414:LEU:HB3	1:D:455:THR:HG21	1.95	0.49
1:D:596:ALA:O	1:D:600:ARG:HB2	2.14	0.49
1:E:159:VAL:HG12	1:E:160:VAL:HG22	1.94	0.49
1:E:236:ARG:HA	1:E:241:VAL:O	2.12	0.49
1:E:802:LEU:HD12	1:E:806:THR:CG2	2.62	0.49
1:E:90:ILE:HD13	1:E:90:ILE:N	2.28	0.49
1:F:30:VAL:HA	1:F:74:LEU:HD11	1.93	0.49
1:F:360:ARG:HG3	1:F:361:GLY:N	2.53	0.49
1:F:550:LYS:HG3	1:F:551:ASN:N	2.28	0.49
1:F:69:THR:HA	1:F:106:GLU:HB3	1.95	0.49
1:G:182:CYS:SG	1:G:208:VAL:HB	2.51	0.49
1:G:327:SER:H	1:G:331:GLY:HA3	1.93	0.49
1:G:5:GLU:O	1:G:41:GLU:O	2.41	0.49
1:G:90:ILE:HD13	1:G:90:ILE:N	4.57	0.49
1:H:654:LEU:O	1:H:657:SER:HB3	2.59	0.49
1:I:273:ILE:HG21	1:I:316:LEU:HD11	1.98	0.49
1:J:383:ASP:OD1	1:J:383:ASP:N	2.80	0.49
1:J:586:VAL:HG12	1:J:587:THR:O	2.62	0.49
1:K:100:TYR:H	1:K:103:GLU:CD	2.16	0.49
1:K:10:ILE:HG23	1:K:11:PRO:HD2	2.05	0.49
1:K:114:VAL:HG12	1:K:118:ASN:ND2	2.26	0.49
1:K:177:ARG:HB2	1:K:177:ARG:HH11	1.77	0.49
1:K:182:CYS:SG	1:K:208:VAL:HG21	2.53	0.49
1:K:578:ARG:HB3	1:K:602:ALA:O	2.28	0.49
1:K:599:ILE:O	1:K:601:MET:N	2.46	0.49
1:K:653:ALA:HB2	1:L:659:GLN:NE2	2.27	0.49
1:L:6:ALA:N	1:L:7:ILE:HD12	4.94	0.49
1:L:7:ILE:HD12	1:L:7:ILE:N	4.41	0.49
1:M:11:PRO:HB2	1:M:12:PRO:HD3	2.06	0.49
1:M:311:GLN:N	1:M:314:GLU:HG3	2.33	0.49
1:M:481:VAL:HG13	1:M:481:VAL:O	2.12	0.49
1:N:115:VAL:O	1:N:118:ASN:HB3	2.12	0.49
1:N:122:HIS:O	1:N:159:VAL:N	2.36	0.49
1:N:217:ASP:OD1	1:N:257:GLU:O	2.30	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:319:GLY:C	1:P:320:ILE:HD13	2.33	0.49
1:P:415:TRP:CZ3	1:P:417:LYS:HB3	2.48	0.49
1:P:799:THR:HG21	1:Q:801:ALA:HB1	1.95	0.49
1:P:88:GLN:HB3	1:P:154:GLN:HE22	1.77	0.49
1:Q:319:GLY:C	1:Q:320:ILE:HD13	2.33	0.49
1:P:354:GLY:C	1:Q:328:GLU:HG3	2.32	0.49
1:R:251:VAL:HG23	1:R:254:GLN:NE2	2.28	0.49
1:R:569:GLY:O	1:R:573:LYS:HB2	2.12	0.49
1:S:220:ILE:O	1:S:253:VAL:HG22	2.13	0.49
1:S:268:LEU:HD13	1:S:269:GLY:N	2.18	0.49
1:S:288:MET:HE3	1:S:311:GLN:HB2	1.95	0.49
1:T:122:HIS:HB3	1:T:159:VAL:HB	1.94	0.49
1:T:182:CYS:SG	1:T:208:VAL:HB	2.52	0.49
1:T:387:GLY:HA3	1:T:402:ILE:HG22	1.94	0.49
1:T:662:ILE:O	1:T:666:THR:HB	2.11	0.49
1:U:2:ALA:HB3	1:U:46:ALA:O	2.13	0.49
1:V:517:LEU:H	1:V:517:LEU:HD12	1.77	0.49
1:W:14:HIS:ND1	1:W:36:ILE:HG22	2.27	0.49
1:W:733:ALA:HA	1:W:736:GLU:HB2	1.94	0.49
1:X:227:LEU:HB2	1:X:251:VAL:HG13	1.94	0.49
1:X:383:ASP:H	1:X:386:GLU:HG2	1.77	0.49
1:X:534:HIS:CD2	1:Y:654:LEU:HG	2.47	0.49
1:X:74:LEU:HB2	1:X:100:TYR:CE2	2.48	0.49
1:Y:273:ILE:HD13	1:Y:316:LEU:CD1	2.24	0.49
1:Z:332:LEU:CD2	1:Z:358:LEU:HD11	2.43	0.49
1:A:2:ALA:HB3	1:A:46:ALA:O	2.13	0.49
1:A:700:GLU:OE1	1:A:703:ARG:NH1	2.46	0.49
1:B:10:ILE:H	1:B:10:ILE:CD1	2.20	0.49
1:B:180:LYS:HD2	1:B:208:VAL:HG12	1.93	0.49
1:B:545:TRP:HB2	1:B:633:LEU:HD21	2.26	0.49
1:C:332:LEU:CD2	1:C:407:MET:HB2	2.38	0.49
1:B:708:GLU:HG3	1:C:716:VAL:HG11	2.29	0.49
1:D:17:HIS:CD2	1:D:18:VAL:HG22	2.52	0.49
1:D:183:PHE:CE2	1:D:188:LYS:O	2.87	0.49
1:D:164:GLN:NE2	1:D:204:TYR:HD2	2.10	0.49
1:D:235:PHE:CG	1:D:264:TYR:OH	2.64	0.49
1:D:470:VAL:HB	1:D:479:ARG:HG3	2.00	0.49
1:E:122:HIS:HB3	1:E:160:VAL:H	1.99	0.49
1:E:501:SER:HB3	1:E:508:PRO:HA	1.94	0.49
1:E:5:GLU:HA	1:E:7:ILE:CD1	3.94	0.49
1:F:589:ASP:HB2	1:G:665:THR:HG21	2.01	0.49
1:G:293:LYS:HG2	1:H:223:GLU:HG3	3.86	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:337:LEU:HD12	1:H:339:PRO:O	2.43	0.49
1:H:495:PHE:CB	1:H:514:LEU:HD11	2.39	0.49
1:H:798:MET:O	1:H:802:LEU:HD23	2.53	0.49
1:I:189:GLY:O	1:I:196:TRP:HZ2	1.95	0.49
1:J:84:ARG:NH2	1:J:101:PRO:HD2	2.24	0.49
1:J:421:SER:O	1:J:423:VAL:N	2.74	0.49
1:J:596:ALA:O	1:J:600:ARG:HB2	2.13	0.49
1:J:623:ARG:CG	1:J:624:ASP:H	2.33	0.49
1:J:771:ILE:HD12	1:J:774:ARG:HH12	1.77	0.49
1:K:135:ASP:C	1:K:136:LYS:HG3	2.33	0.49
1:K:69:THR:CB	1:K:106:GLU:HB3	2.43	0.49
1:L:151:TYR:N	1:L:151:TYR:CD1	2.79	0.49
1:L:181:GLU:O	1:L:190:ARG:HD2	2.13	0.49
1:L:221:LEU:HD21	1:L:256:THR:CG2	2.35	0.49
1:M:14:HIS:NE2	1:M:16:ILE:HD11	3.57	0.49
1:N:20:ASP:HB2	1:N:49:ARG:HD3	1.94	0.49
1:N:543:TYR:HE2	1:N:575:ILE:HG21	1.73	0.49
1:O:234:ASN:HD22	1:O:234:ASN:N	2.09	0.49
1:O:766:ARG:O	1:O:770:LEU:HB2	2.13	0.49
1:P:298:GLN:HG3	1:Q:305:GLU:CD	2.33	0.49
1:R:337:LEU:N	1:R:337:LEU:HD23	2.28	0.49
1:R:46:ALA:H	1:R:47:PRO:HD3	1.77	0.49
1:R:564:VAL:HG23	1:R:564:VAL:O	2.12	0.49
1:T:326:LEU:CD2	1:T:333:LEU:HG	2.41	0.49
1:T:5:GLU:HG2	1:T:43:VAL:HG21	1.93	0.49
1:V:113:GLN:NE2	1:V:150:THR:HG22	2.27	0.49
1:V:144:LEU:H	1:V:144:LEU:HD12	1.78	0.49
1:V:68:ASP:HA	1:V:90:ILE:HA	1.95	0.49
1:V:90:ILE:O	1:V:90:ILE:HD12	2.13	0.49
1:Y:130:GLU:HG3	1:Y:130:GLU:O	2.12	0.49
1:Y:468:VAL:HG11	1:Y:495:PHE:HE2	1.77	0.49
1:Z:3:THR:CG2	1:Z:50:MET:HE3	2.42	0.49
1:A:152:ILE:HD11	1:A:156:GLU:OE2	2.84	0.49
1:A:224:LYS:O	1:A:272:PRO:HD3	2.13	0.49
1:A:414:LEU:HD23	1:A:455:THR:CB	2.65	0.49
1:B:347:GLU:O	1:B:349:VAL:HG23	2.57	0.49
1:B:354:GLY:O	1:B:356:CYS:N	2.45	0.49
1:C:100:TYR:CD2	1:C:101:PRO:HD3	2.48	0.49
1:B:354:GLY:C	1:C:328:GLU:HG3	2.33	0.49
1:C:341:GLU:HG2	1:C:370:LYS:HD3	1.94	0.49
1:C:529:ILE:HD11	1:C:537:LEU:HD12	1.95	0.49
1:B:708:GLU:HG2	1:C:716:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:235:PHE:CE2	1:D:243:HIS:HB3	2.47	0.49
1:D:221:LEU:HD21	1:D:256:THR:HG21	1.94	0.49
1:D:383:ASP:HB2	1:D:386:GLU:HG2	1.94	0.49
1:E:175:ARG:HB3	1:E:212:VAL:HB	1.93	0.49
1:E:336:ALA:H	1:E:374:VAL:HG23	2.10	0.49
1:E:497:VAL:HG12	1:E:498:LEU:N	2.28	0.49
1:E:61:VAL:HG22	1:E:62:ALA:H	3.80	0.49
1:D:535:ALA:HA	1:E:658:VAL:HG21	2.10	0.49
1:F:154:GLN:HG3	1:F:155:LYS:N	2.37	0.49
1:F:414:LEU:HB3	1:F:455:THR:HG21	2.03	0.49
1:G:18:VAL:HG21	1:G:33:LYS:HE3	1.95	0.49
1:G:407:MET:N	1:G:407:MET:SD	2.82	0.49
1:G:567:PHE:HB2	1:G:633:LEU:HD12	1.95	0.49
1:I:116:LEU:CB	1:I:117:PRO:CD	2.83	0.49
1:I:235:PHE:CZ	1:I:264:TYR:CE1	3.01	0.49
1:J:273:ILE:HG13	1:J:308:PHE:HB3	2.00	0.49
1:J:335:LYS:NZ	1:J:335:LYS:HB2	2.27	0.49
1:J:42:ARG:HA	1:J:42:ARG:HE	1.78	0.49
1:K:116:LEU:O	1:K:117:PRO:C	2.51	0.49
1:K:151:TYR:CD2	1:K:152:ILE:CD1	4.33	0.49
1:K:164:GLN:HG3	1:K:204:TYR:HB3	2.16	0.49
1:K:215:LEU:HD12	1:K:259:HIS:NE2	2.82	0.49
1:K:729:ARG:CZ	1:K:729:ARG:HB2	2.43	0.49
1:K:794:LYS:O	1:K:798:MET:CG	2.88	0.49
1:L:229:LEU:O	1:L:248:GLU:HA	2.13	0.49
1:L:542:ALA:HB3	1:L:639:ASP:HB2	1.95	0.49
1:L:648:GLN:HE21	1:L:648:GLN:HA	3.34	0.49
1:L:679:ARG:HG3	1:M:691:GLN:HE22	2.81	0.49
1:M:529:ILE:HG22	1:M:580:ARG:HB2	1.94	0.49
1:N:88:GLN:HB3	1:N:154:GLN:HE22	1.78	0.49
1:P:547:PHE:CD2	1:P:561:LEU:HD23	2.48	0.49
1:R:155:LYS:HZ2	1:R:155:LYS:H	1.60	0.49
1:R:267:VAL:O	1:R:268:LEU:HB2	2.12	0.49
1:R:811:ALA:C	1:R:813:ALA:H	2.13	0.49
1:S:14:HIS:CB	1:S:56:ARG:CB	2.85	0.49
1:T:208:VAL:HG23	1:T:209:PHE:HD2	1.77	0.49
1:T:415:TRP:CZ3	1:T:417:LYS:HB3	2.48	0.49
1:U:18:VAL:HG13	1:U:48:VAL:CG2	2.25	0.49
1:V:600:ARG:NH1	1:V:622:ALA:HB3	2.28	0.49
1:W:244:ARG:HH11	1:X:221:LEU:HD11	1.77	0.49
1:Y:333:LEU:HB2	1:Y:359:ILE:HD11	1.93	0.49
1:Z:199:ARG:HH21	1:Z:258:ALA:HB3	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:113:GLN:O	1:A:114:VAL:HG13	2.27	0.49
1:A:489:LEU:HD11	1:A:495:PHE:CD1	2.48	0.49
1:B:14:HIS:NE2	1:B:16:ILE:HD11	2.36	0.49
1:B:387:GLY:CA	1:B:402:ILE:HG22	2.76	0.49
1:C:268:LEU:HD13	1:C:269:GLY:H	1.85	0.49
1:D:310:LEU:HD12	1:D:310:LEU:H	1.92	0.49
1:D:506:LYS:HE2	1:D:524:THR:O	2.26	0.49
1:D:697:SER:HB3	1:E:706:LEU:HB2	1.95	0.49
1:D:73:VAL:N	1:D:84:ARG:HB2	2.30	0.49
1:E:125:ALA:HB1	1:E:128:ASP:HB3	1.94	0.49
1:E:408:LEU:H	1:E:408:LEU:HD12	1.77	0.49
1:E:70:GLN:O	1:E:70:GLN:HG3	2.30	0.49
1:F:418:GLU:HG2	1:F:423:VAL:HG22	1.93	0.49
1:F:425:GLU:CD	1:F:425:GLU:H	2.14	0.49
1:F:60:ILE:HG22	1:F:66:SER:HA	2.14	0.49
1:G:379:ALA:HB2	1:G:407:MET:HB3	2.20	0.49
1:I:296:LEU:HD22	1:I:296:LEU:N	2.33	0.49
1:I:60:ILE:HG22	1:I:66:SER:HA	2.05	0.49
1:J:182:CYS:SG	1:J:208:VAL:HG21	2.62	0.49
1:J:551:ASN:HB3	1:J:554:ASP:CB	2.43	0.49
1:J:594:ASN:O	1:J:595:SER:C	2.52	0.49
1:K:151:TYR:CD1	1:K:151:TYR:N	2.80	0.49
1:K:152:ILE:CD1	1:K:152:ILE:H	3.00	0.49
1:K:206:PRO:HD2	1:K:209:PHE:CG	2.47	0.49
1:K:601:MET:HG2	1:K:622:ALA:CB	2.42	0.49
1:J:697:SER:HB3	1:K:706:LEU:HB2	1.95	0.49
1:K:70:GLN:HB2	1:K:104:VAL:HG12	1.94	0.49
1:L:68:ASP:O	1:L:106:GLU:HB2	2.12	0.49
1:L:123:LEU:HD11	1:L:143:TRP:CD1	2.47	0.49
1:L:151:TYR:HD1	1:L:151:TYR:N	2.10	0.49
1:L:330:GLN:CB	1:L:379:ALA:HB3	2.53	0.49
1:L:813:ALA:O	1:L:815:PRO:HD3	2.13	0.49
1:M:115:VAL:HA	1:M:147:GLY:O	2.13	0.49
1:N:799:THR:HG21	1:O:801:ALA:HB1	1.94	0.49
1:O:330:GLN:OE1	1:O:360:ARG:HD3	2.13	0.49
1:P:268:LEU:HD13	1:P:269:GLY:H	1.78	0.49
1:P:273:ILE:HG12	1:P:310:LEU:HG	1.95	0.49
1:Q:382:LEU:HD22	1:Q:387:GLY:HA2	1.94	0.49
1:Q:808:ARG:O	1:Q:812:VAL:HG23	2.13	0.49
1:R:152:ILE:HD11	1:R:156:GLU:OE2	2.13	0.49
1:R:165:ALA:O	1:R:203:ALA:O	2.31	0.49
1:R:284:ILE:HD12	1:R:302:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:296:LEU:HB2	1:U:274:THR:HG21	1.94	0.49
1:T:63:ASN:N	1:T:64:PRO:HD2	2.27	0.49
1:U:185:ARG:HG3	1:U:206:PRO:CB	2.43	0.49
1:U:360:ARG:HG3	1:U:361:GLY:N	2.28	0.49
1:U:60:ILE:HG22	1:U:66:SER:HA	1.94	0.49
1:U:692:LYS:HG2	1:U:696:GLN:HE21	1.78	0.49
1:V:1:MET:O	1:V:2:ALA:HB2	2.13	0.49
1:V:501:SER:HA	1:V:507:ARG:O	2.13	0.49
1:W:697:SER:HB3	1:X:706:LEU:HB2	1.95	0.49
1:X:128:ASP:OD1	1:X:131:ASP:HB3	2.13	0.49
1:X:305:GLU:O	1:X:306:LYS:HG3	2.13	0.49
1:Z:330:GLN:HB3	1:Z:379:ALA:HB3	1.94	0.49
1:A:285:LEU:HB2	1:A:315:ARG:HG2	2.32	0.49
1:B:8:ILE:HA	1:B:40:ASN:HD22	1.86	0.49
1:B:465:ASN:HB3	1:B:519:GLY:HA3	1.95	0.49
1:A:795:PHE:CZ	1:B:802:LEU:HD22	3.29	0.49
1:C:230:ARG:HG2	1:C:248:GLU:HG2	2.26	0.49
1:C:268:LEU:HD12	1:C:269:GLY:O	2.52	0.49
1:C:345:SER:C	1:C:347:GLU:H	2.17	0.49
1:B:580:ARG:NH2	1:C:595:SER:HB2	2.16	0.49
1:D:221:LEU:HD13	1:D:256:THR:HB	2.28	0.49
1:D:524:THR:HG22	1:D:542:ALA:HB2	2.02	0.49
1:D:715:ALA:HA	1:E:724:ALA:HB1	1.93	0.49
1:E:236:ARG:NH1	1:E:236:ARG:HB3	2.29	0.49
1:E:745:LYS:O	1:E:748:ALA:HB3	2.13	0.49
1:F:9:ARG:CZ	1:F:15:TYR:HB3	2.50	0.49
1:F:288:MET:HE1	1:F:294:ASN:ND2	2.27	0.49
1:F:600:ARG:O	1:F:604:PHE:HD1	2.03	0.49
1:G:414:LEU:HB3	1:G:455:THR:HG21	1.94	0.49
1:F:654:LEU:CD1	1:G:662:ILE:CD1	2.91	0.49
1:G:766:ARG:HD3	1:H:772:TYR:CB	2.80	0.49
1:H:124:LYS:HB2	1:H:142:GLU:HG2	1.95	0.49
1:H:14:HIS:HB3	1:H:56:ARG:CG	2.83	0.49
1:H:330:GLN:HE22	1:H:360:ARG:HD2	2.75	0.49
1:I:171:ASN:O	1:I:216:VAL:HG12	2.44	0.49
1:I:287:PRO:O	1:I:295:GLN:HB2	2.15	0.49
1:J:183:PHE:HE2	1:J:188:LYS:HA	1.98	0.49
1:J:205:LEU:HD22	1:J:211:GLU:HB2	1.93	0.49
1:J:3:THR:HG22	1:J:50:MET:CE	2.43	0.49
1:J:8:ILE:N	1:J:8:ILE:HD13	4.70	0.49
1:K:123:LEU:HA	1:K:158:GLU:HA	1.95	0.49
1:K:398:VAL:HG11	1:K:415:TRP:CD2	2.50	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:273:ILE:HD13	1:L:310:LEU:HD21	4.74	0.49
1:L:333:LEU:HB2	1:L:359:ILE:HD11	3.43	0.49
1:L:58:TYR:CG	1:L:98:PRO:HA	3.11	0.49
1:M:251:VAL:HG23	1:M:254:GLN:HE21	2.22	0.49
1:A:593:LYS:HE2	1:M:532:ALA:HB1	193.88	0.49
1:M:564:VAL:CG2	1:M:631:ASN:ND2	2.93	0.49
1:N:194:GLU:HG2	1:N:195:GLU:H	1.78	0.49
1:N:285:LEU:HB2	1:N:315:ARG:HG2	1.94	0.49
1:M:49:ARG:NH2	1:N:8:ILE:CD1	2.76	0.49
1:O:324:TYR:HE1	1:O:373:VAL:HG21	1.78	0.49
1:P:755:THR:HG21	1:Q:761:ARG:HG2	1.94	0.49
1:R:65:VAL:HA	1:R:110:THR:CB	2.43	0.49
1:R:170:GLN:HE22	1:R:256:THR:HG23	1.78	0.49
1:R:494:GLN:CA	1:R:494:GLN:NE2	2.76	0.49
1:R:496:THR:O	1:R:496:THR:HG22	2.11	0.49
1:S:704:LYS:HD2	1:T:712:MET:HB3	1.94	0.49
1:T:155:LYS:HB2	1:T:155:LYS:HZ2	1.77	0.49
1:U:419:LEU:CD2	1:U:422:GLY:H	2.26	0.49
1:U:506:LYS:HE2	1:U:524:THR:O	2.12	0.49
1:W:130:GLU:HA	1:W:137:VAL:HG13	1.95	0.49
1:X:260:VAL:HA	1:X:264:TYR:H	1.78	0.49
1:X:547:PHE:CD2	1:X:561:LEU:HD23	2.48	0.49
1:X:529:ILE:HD12	1:X:583:VAL:HG11	1.95	0.49
1:Y:113:GLN:HG2	1:Y:150:THR:CB	2.20	0.49
1:Z:109:ILE:CD1	1:Z:153:PRO:HG2	2.43	0.49
1:Z:273:ILE:HD13	1:Z:316:LEU:HD11	1.94	0.49
1:Z:377:ARG:NH1	1:Z:408:LEU:O	2.43	0.49
1:A:129:PHE:O	1:A:130:GLU:HG2	3.99	0.48
1:A:159:VAL:HG12	1:A:160:VAL:HG22	1.99	0.48
1:A:230:ARG:HB3	1:A:230:ARG:NH1	2.50	0.48
1:A:399:ARG:HG2	1:A:399:ARG:NH1	2.39	0.48
1:A:469:GLN:HB2	1:A:562:PHE:CE1	2.48	0.48
1:A:60:ILE:O	1:A:60:ILE:CD1	3.73	0.48
1:A:29:GLU:O	1:A:84:ARG:HD3	2.13	0.48
1:B:154:GLN:CG	1:B:155:LYS:HE3	2.43	0.48
1:B:191:VAL:HG12	1:B:194:GLU:HB2	1.99	0.48
1:B:471:TYR:O	1:B:493:GLU:HB2	2.13	0.48
1:B:692:LYS:HG2	1:B:696:GLN:HE21	1.78	0.48
1:C:3:THR:HG22	1:C:50:MET:CE	2.43	0.48
1:C:677:ALA:HA	1:C:680:LEU:HD12	1.95	0.48
1:C:766:ARG:HD2	1:D:768:MET:HE1	1.94	0.48
1:D:125:ALA:HB1	1:D:128:ASP:HB3	2.21	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:135:ASP:C	1:D:136:LYS:HG3	2.36	0.48
1:D:387:GLY:HA3	1:D:402:ILE:HG22	2.12	0.48
1:C:573:LYS:HE3	1:D:522:PHE:CZ	2.48	0.48
1:F:217:ASP:HB2	1:F:258:ALA:CA	2.95	0.48
1:F:281:TYR:CD2	1:F:366:VAL:HG13	2.48	0.48
1:F:408:LEU:H	1:F:408:LEU:HD12	2.07	0.48
1:F:568:VAL:HG23	1:F:569:GLY:H	1.78	0.48
1:G:154:GLN:HG3	1:G:155:LYS:CE	2.85	0.48
1:G:524:THR:HG22	1:G:641:GLN:HE22	1.78	0.48
1:G:557:GLU:HA	1:G:560:LYS:HB2	1.96	0.48
1:G:58:TYR:CG	1:G:98:PRO:HA	2.65	0.48
1:H:291:ASP:O	1:H:293:LYS:N	2.46	0.48
1:H:342:GLU:HG2	1:H:343:GLY:N	2.27	0.48
1:I:191:VAL:HG13	1:I:192:THR:N	2.28	0.48
1:K:36:ILE:HG21	1:K:99:LEU:CD1	2.44	0.48
1:K:5:GLU:HA	1:K:7:ILE:CD1	4.51	0.48
1:K:805:GLY:HA2	1:K:808:ARG:HB3	2.54	0.48
1:L:268:LEU:HD13	1:L:269:GLY:N	2.19	0.48
1:L:360:ARG:HG3	1:L:361:GLY:N	2.63	0.48
1:L:382:LEU:H	1:L:405:THR:HG22	1.78	0.48
1:M:16:ILE:HD13	1:M:34:THR:HG21	5.06	0.48
1:M:239:ARG:HH21	1:M:257:GLU:HG2	1.77	0.48
1:M:324:TYR:HE1	1:M:373:VAL:HG21	1.78	0.48
1:A:384:GLN:HG2	1:M:474:ARG:HH22	285.19	0.48
1:N:19:LEU:HD23	1:N:32:PRO:HB2	1.94	0.48
1:N:45:PHE:HB2	1:N:48:VAL:HG23	1.93	0.48
1:O:296:LEU:HD21	1:P:307:SER:HB3	1.94	0.48
1:P:398:VAL:HG11	1:P:415:TRP:CD2	2.48	0.48
1:P:192:THR:HG23	1:Q:202:GLY:HA3	1.93	0.48
1:Q:551:ASN:HB3	1:Q:554:ASP:HB3	1.95	0.48
1:R:109:ILE:HD11	1:R:153:PRO:HG2	1.90	0.48
1:R:276:LEU:HB2	1:R:280:HIS:CG	2.48	0.48
1:R:332:LEU:HD22	1:R:377:ARG:HD2	1.94	0.48
1:S:175:ARG:HB2	1:S:213:LEU:O	2.13	0.48
1:S:61:VAL:HG13	1:S:65:VAL:CG2	2.41	0.48
1:V:182:CYS:SG	1:V:208:VAL:HG21	2.52	0.48
1:W:395:THR:HG21	1:W:397:LYS:HE2	1.95	0.48
1:W:77:ILE:HG13	1:W:80:GLN:H	1.77	0.48
1:X:84:ARG:HH22	1:X:101:PRO:HD2	1.78	0.48
1:Z:425:GLU:H	1:Z:425:GLU:CD	2.17	0.48
1:A:245:THR:OG1	1:B:170:GLN:OE1	2.42	0.48
1:A:719:THR:HG22	1:B:728:SER:HA	2.07	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:416:GLU:OE1	1:B:454:LYS:HD3	2.29	0.48
1:B:67:ARG:O	1:B:91:ARG:HB2	2.22	0.48
1:D:121:LEU:HD12	1:D:145:PHE:HD2	1.89	0.48
1:D:279:ARG:HG3	1:D:280:HIS:CD2	2.48	0.48
1:D:529:ILE:CD1	1:D:583:VAL:HG11	2.82	0.48
1:D:63:ASN:N	1:D:64:PRO:HD2	2.27	0.48
1:C:701:LYS:HG3	1:D:709:LEU:HD13	1.94	0.48
1:D:796:LYS:HA	1:D:799:THR:CG2	2.38	0.48
1:D:192:THR:HG23	1:E:202:GLY:HA3	2.48	0.48
1:E:296:LEU:H	1:E:296:LEU:HD13	1.78	0.48
1:E:359:ILE:H	1:E:359:ILE:HD13	1.84	0.48
1:F:67:ARG:NH2	1:F:107:LYS:HA	2.55	0.48
1:F:221:LEU:HD12	1:F:253:VAL:HG13	1.95	0.48
1:G:291:ASP:C	1:G:293:LYS:H	2.36	0.48
1:G:352:GLN:O	1:G:355:ASP:HB3	2.13	0.48
1:G:481:VAL:HG13	1:G:481:VAL:O	2.33	0.48
1:H:221:LEU:HD22	1:H:256:THR:HB	2.39	0.48
1:H:260:VAL:C	1:H:262:ASP:H	2.14	0.48
1:G:297:GLY:O	1:H:276:LEU:HD22	2.14	0.48
1:H:336:ALA:H	1:H:374:VAL:HG23	1.99	0.48
1:I:175:ARG:NE	1:I:263:VAL:HG22	2.29	0.48
1:I:185:ARG:HG3	1:I:206:PRO:CB	2.43	0.48
1:I:30:VAL:HG22	1:I:74:LEU:HG	1.95	0.48
1:J:62:ALA:O	1:J:93:ALA:HB2	2.42	0.48
1:K:766:ARG:O	1:K:770:LEU:HB2	2.14	0.48
1:K:60:ILE:HG12	1:K:93:ALA:HA	2.95	0.48
1:M:171:ASN:O	1:M:216:VAL:HA	2.13	0.48
1:M:485:GLU:HG2	1:M:486:LEU:H	1.77	0.48
1:M:766:ARG:O	1:M:770:LEU:HB2	2.35	0.48
1:N:284:ILE:N	1:N:284:ILE:HD13	2.25	0.48
1:O:337:LEU:HG	1:O:354:GLY:H	1.78	0.48
1:O:508:PRO:O	1:O:509:HIS:HD2	1.96	0.48
1:O:533:ASP:OD1	1:O:587:THR:HA	2.13	0.48
1:P:130:GLU:N	1:P:137:VAL:HG22	2.10	0.48
1:P:234:ASN:O	1:P:235:PHE:HB3	2.13	0.48
1:P:526:VAL:HG22	1:P:540:GLN:HG2	1.95	0.48
1:Q:191:VAL:HG13	1:Q:192:THR:N	2.28	0.48
1:Q:251:VAL:CG2	1:Q:254:GLN:HE21	2.26	0.48
1:Q:273:ILE:HD11	1:Q:308:PHE:CD2	2.48	0.48
1:Q:569:GLY:O	1:Q:573:LYS:HB2	2.13	0.48
1:R:252:THR:O	1:R:254:GLN:NE2	2.46	0.48
1:R:14:HIS:HB2	1:R:56:ARG:CB	2.42	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:395:THR:HG21	1:S:397:LYS:HE2	1.95	0.48
1:S:74:LEU:HD22	1:S:100:TYR:HE2	1.77	0.48
1:T:19:LEU:HD23	1:T:32:PRO:HB2	1.95	0.48
1:U:389:TYR:CZ	1:U:457:VAL:HA	2.48	0.48
1:V:113:GLN:O	1:V:114:VAL:HG13	2.13	0.48
1:V:10:ILE:CG2	1:V:11:PRO:HD2	2.42	0.48
1:V:152:ILE:HD11	1:V:156:GLU:OE2	2.13	0.48
1:W:221:LEU:CD2	1:W:256:THR:HG21	2.42	0.48
1:V:476:LYS:HE2	1:W:485:GLU:HG3	1.95	0.48
1:X:560:LYS:HD2	1:X:630:GLN:O	2.14	0.48
1:X:92:LEU:HB2	1:X:94:GLN:HG2	1.94	0.48
1:Y:74:LEU:HD22	1:Y:100:TYR:HE2	1.78	0.48
1:Y:261:PRO:HD2	1:Y:264:TYR:HD1	1.77	0.48
1:Y:384:GLN:HE21	1:Y:384:GLN:N	2.05	0.48
1:Y:580:ARG:HH22	1:Z:595:SER:HB2	1.78	0.48
1:Z:154:GLN:HG3	1:Z:155:LYS:N	2.28	0.48
1:Z:36:ILE:HG21	1:Z:99:LEU:HB2	1.94	0.48
1:A:766:ARG:O	1:A:770:LEU:HB2	2.12	0.48
1:B:291:ASP:C	1:B:293:LYS:N	2.96	0.48
1:B:795:PHE:O	1:B:799:THR:HG22	2.12	0.48
1:C:176:LEU:HA	1:C:210:GLU:O	2.25	0.48
1:D:235:PHE:CE1	1:D:264:TYR:CE1	3.08	0.48
1:E:281:TYR:HE1	1:E:321:GLN:HB2	1.78	0.48
1:E:338:GLN:NE2	1:F:279:ARG:HD3	2.96	0.48
1:E:494:GLN:CA	1:E:494:GLN:NE2	2.74	0.48
1:F:175:ARG:HB2	1:F:213:LEU:O	2.14	0.48
1:F:382:LEU:H	1:F:405:THR:HG22	1.77	0.48
1:F:568:VAL:HG23	1:F:569:GLY:N	2.28	0.48
1:F:807:ILE:CD1	1:G:806:THR:HG21	2.50	0.48
1:G:518:LEU:HA	1:G:547:PHE:HD1	1.78	0.48
1:H:14:HIS:HD1	1:H:36:ILE:CG2	2.43	0.48
1:I:750:ALA:C	1:I:752:ALA:H	2.51	0.48
1:J:291:ASP:C	1:J:293:LYS:H	2.15	0.48
1:K:244:ARG:HB2	1:K:247:GLU:OE1	2.12	0.48
1:K:261:PRO:HD2	1:K:264:TYR:HD1	1.80	0.48
1:K:327:SER:O	1:K:328:GLU:HB2	4.88	0.48
1:K:653:ALA:HB2	1:L:659:GLN:HE22	1.77	0.48
1:J:704:LYS:CD	1:K:712:MET:HB3	2.56	0.48
1:L:19:LEU:HA	1:L:32:PRO:HB2	1.95	0.48
1:L:294:ASN:ND2	1:L:313:GLY:CA	2.75	0.48
1:M:152:ILE:HD11	1:M:156:GLU:OE2	2.14	0.48
1:M:180:LYS:HD2	1:M:208:VAL:HG12	2.16	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:360:ARG:HG3	1:M:361:GLY:N	2.53	0.48
1:N:311:GLN:HB3	1:N:312:PRO:CD	2.41	0.48
1:N:327:SER:HB2	1:N:331:GLY:HA2	1.93	0.48
1:N:522:PHE:C	1:N:522:PHE:CD2	2.87	0.48
1:O:179:ARG:NH2	1:O:209:PHE:O	2.46	0.48
1:O:332:LEU:HD23	1:O:358:LEU:HD11	1.95	0.48
1:Q:310:LEU:H	1:Q:310:LEU:HD12	1.78	0.48
1:Q:326:LEU:HD21	1:Q:333:LEU:CG	2.29	0.48
1:Q:382:LEU:HD11	1:Q:388:ILE:HD12	1.95	0.48
1:R:417:LYS:HE3	1:R:491:PRO:O	2.13	0.48
1:S:587:THR:HG23	1:S:590:ASP:CB	2.43	0.48
1:S:798:MET:O	1:S:802:LEU:HD23	2.13	0.48
1:U:109:ILE:HD12	1:U:153:PRO:CB	2.44	0.48
1:V:177:ARG:HB2	1:V:177:ARG:HH11	1.79	0.48
1:V:252:THR:H	1:V:254:GLN:HE21	1.61	0.48
1:V:527:ILE:HD13	1:V:527:ILE:N	2.16	0.48
1:W:74:LEU:HD22	1:W:100:TYR:HE2	1.78	0.48
1:W:132:LYS:HZ2	1:W:152:ILE:HD12	1.77	0.48
1:W:169:LYS:HB3	1:W:201:VAL:HG11	1.94	0.48
1:W:286:ASP:N	1:W:287:PRO:HD3	2.29	0.48
1:W:382:LEU:N	1:W:405:THR:HG22	2.28	0.48
1:Y:113:GLN:OE1	1:Y:149:GLY:HA2	2.14	0.48
1:Y:18:VAL:O	1:Y:32:PRO:HB3	2.13	0.48
1:A:167:VAL:H	1:A:202:GLY:H	4.11	0.48
1:A:185:ARG:HG2	1:A:209:PHE:HE2	1.78	0.48
1:A:276:LEU:O	1:A:277:GLY:C	2.50	0.48
1:A:328:GLU:O	1:A:329:GLN:C	2.52	0.48
1:A:715:ALA:HA	1:B:724:ALA:HB1	2.15	0.48
1:C:417:LYS:O	1:C:418:GLU:HB2	2.13	0.48
1:C:426:LEU:C	1:C:428:ASN:H	2.16	0.48
1:C:571:ALA:O	1:C:575:ILE:HG13	2.13	0.48
1:D:568:VAL:HG23	1:D:569:GLY:N	2.28	0.48
1:D:752:ALA:O	1:D:756:GLU:HB2	2.36	0.48
1:E:6:ALA:N	1:E:7:ILE:HD12	5.10	0.48
1:D:719:THR:HG22	1:E:728:SER:CA	2.43	0.48
1:F:114:VAL:HA	1:F:118:ASN:ND2	2.61	0.48
1:F:113:GLN:O	1:F:114:VAL:HG13	2.13	0.48
1:G:114:VAL:HA	1:G:118:ASN:HD21	2.12	0.48
1:G:175:ARG:HE	1:G:263:VAL:HG22	1.91	0.48
1:G:220:ILE:O	1:G:220:ILE:HD12	2.13	0.48
1:G:623:ARG:CG	1:G:624:ASP:H	2.25	0.48
1:G:807:ILE:CD1	1:H:806:THR:HG21	2.42	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:100:TYR:HB3	1:H:101:PRO:HD2	1.95	0.48
1:H:366:VAL:HG12	1:H:366:VAL:O	2.13	0.48
1:H:476:LYS:HE2	1:I:485:GLU:CG	2.41	0.48
1:I:10:ILE:CD1	1:I:10:ILE:H	2.39	0.48
1:I:208:VAL:HG23	1:I:209:PHE:CD2	2.54	0.48
1:I:221:LEU:HD22	1:I:256:THR:HB	2.43	0.48
1:I:338:GLN:CB	1:I:339:PRO:CD	2.99	0.48
1:I:527:ILE:H	1:I:527:ILE:HD13	1.77	0.48
1:I:591:PHE:O	1:I:595:SER:N	2.50	0.48
1:H:766:ARG:HG3	1:I:772:TYR:CD1	2.78	0.48
1:J:151:TYR:O	1:J:153:PRO:HD3	2.24	0.48
1:J:18:VAL:H	1:J:48:VAL:CG1	2.18	0.48
1:J:5:GLU:HB2	1:J:7:ILE:CD1	4.04	0.48
1:J:771:ILE:HD12	1:J:774:ARG:NH1	2.28	0.48
1:K:467:ALA:HB2	1:K:482:PHE:CD2	2.49	0.48
1:L:113:GLN:OE1	1:L:150:THR:N	2.46	0.48
1:L:182:CYS:HB2	1:L:208:VAL:HB	2.19	0.48
1:L:288:MET:HB3	1:L:294:ASN:HA	1.94	0.48
1:A:753:ILE:CD1	1:M:745:LYS:HG3	170.76	0.48
1:N:230:ARG:HH11	1:N:230:ARG:HB3	1.78	0.48
1:R:221:LEU:CD2	1:R:256:THR:CG2	2.85	0.48
1:T:337:LEU:HG	1:T:354:GLY:H	1.78	0.48
1:T:360:ARG:HG3	1:T:361:GLY:N	2.27	0.48
1:T:523:PHE:CD1	1:T:545:TRP:NE1	2.81	0.48
1:T:750:ALA:C	1:T:752:ALA:H	2.17	0.48
1:U:332:LEU:HD21	1:U:407:MET:HB3	1.90	0.48
1:U:5:GLU:OE1	1:U:43:VAL:HG11	2.12	0.48
1:V:180:LYS:HD2	1:V:208:VAL:HG12	1.95	0.48
1:V:387:GLY:HA3	1:V:402:ILE:HG22	1.94	0.48
1:X:745:LYS:HG3	1:Y:753:ILE:CD1	2.43	0.48
1:Y:169:LYS:HB3	1:Y:201:VAL:HG11	1.95	0.48
1:Y:490:ASP:HB2	1:Y:493:GLU:OE1	2.14	0.48
1:A:327:SER:N	1:A:331:GLY:HA3	2.45	0.48
1:A:399:ARG:HA	1:A:491:PRO:HG3	2.32	0.48
1:A:465:ASN:ND2	1:A:520:PRO:HD2	2.38	0.48
1:B:523:PHE:HE1	1:B:568:VAL:HG12	1.88	0.48
1:C:120:ALA:HB2	1:C:164:GLN:NE2	2.49	0.48
1:C:17:HIS:CD2	1:C:18:VAL:HG22	2.49	0.48
1:C:239:ARG:HH21	1:C:257:GLU:CG	2.25	0.48
1:B:476:LYS:CE	1:C:485:GLU:HG3	2.69	0.48
1:D:15:TYR:CE2	1:D:17:HIS:HB3	2.49	0.48
1:D:217:ASP:OD1	1:D:218:ALA:N	2.62	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:22:ASN:HD21	1:E:39:ASP:HB3	1.98	0.48
1:D:45:PHE:HB2	1:D:48:VAL:HG23	2.13	0.48
1:D:58:TYR:HB2	1:D:97:PHE:O	2.32	0.48
1:C:708:GLU:HG3	1:D:716:VAL:HG11	2.53	0.48
1:E:100:TYR:HB3	1:E:101:PRO:CD	2.72	0.48
1:E:58:TYR:CD1	1:E:98:PRO:HA	3.02	0.48
1:F:734:ARG:HH21	1:F:735:ILE:HD13	4.35	0.48
1:G:10:ILE:H	1:G:10:ILE:CD1	2.18	0.48
1:F:654:LEU:HD13	1:G:662:ILE:HD13	1.95	0.48
1:H:14:HIS:NE2	1:H:16:ILE:CD1	2.88	0.48
1:H:230:ARG:HG2	1:H:248:GLU:HG2	2.25	0.48
1:I:235:PHE:HE1	1:I:237:ASP:HA	1.80	0.48
1:I:408:LEU:HD21	1:I:414:LEU:CD1	2.79	0.48
1:I:541:LEU:HD12	1:I:543:TYR:OH	2.55	0.48
1:J:194:GLU:HG2	1:J:195:GLU:N	2.28	0.48
1:J:575:ILE:CD1	1:J:603:VAL:HG13	2.42	0.48
1:J:540:GLN:O	1:J:641:GLN:HG2	2.13	0.48
1:J:805:GLY:HA2	1:J:808:ARG:HB3	1.94	0.48
1:K:279:ARG:HG3	1:K:280:HIS:CD2	2.48	0.48
1:K:77:ILE:HG13	1:K:79:GLY:N	2.29	0.48
1:L:6:ALA:HB1	1:L:42:ARG:NH2	2.27	0.48
1:L:811:ALA:C	1:L:813:ALA:H	2.17	0.48
1:M:523:PHE:CD1	1:M:545:TRP:NE1	2.82	0.48
1:O:130:GLU:HA	1:O:137:VAL:HG13	1.96	0.48
1:O:472:ASP:HA	1:O:493:GLU:CB	2.43	0.48
1:O:85:HIS:NE2	1:O:102:GLY:HA3	2.28	0.48
1:P:121:LEU:HB2	1:P:145:PHE:HB3	1.96	0.48
1:P:36:ILE:O	1:P:36:ILE:HG13	2.12	0.48
1:P:54:PRO:CB	1:P:55:PRO:HD3	2.37	0.48
1:Q:285:LEU:HB2	1:Q:315:ARG:HG2	1.96	0.48
1:R:360:ARG:HG3	1:R:361:GLY:N	2.28	0.48
1:R:627:VAL:HG13	1:R:634:VAL:HG22	1.96	0.48
1:S:337:LEU:HD22	1:S:357:TRP:CZ3	2.49	0.48
1:T:8:ILE:HG22	1:T:40:ASN:HD21	1.77	0.48
1:V:490:ASP:CG	1:V:491:PRO:HD2	2.34	0.48
1:W:281:TYR:HE1	1:W:321:GLN:HB2	1.72	0.48
1:X:533:ASP:OD1	1:X:587:THR:HA	2.13	0.48
1:X:542:ALA:HB3	1:X:639:ASP:HB2	1.94	0.48
1:X:662:ILE:O	1:X:666:THR:HB	2.13	0.48
1:Y:5:GLU:HG2	1:Y:43:VAL:CG2	2.43	0.48
1:Z:17:HIS:CD2	1:Z:18:VAL:HG22	2.48	0.48
1:Z:340:LEU:HG	1:Z:353:ALA:HB2	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:127:LEU:HB3	1:B:64:PRO:HD3	2.65	0.48
1:A:772:TYR:HB2	1:Z:766:ARG:HD3	148.21	0.48
1:B:130:GLU:HA	1:B:137:VAL:H	1.79	0.48
1:B:90:ILE:CD1	1:B:154:GLN:HG2	5.46	0.48
1:B:175:ARG:HB3	1:B:212:VAL:HB	1.95	0.48
1:B:221:LEU:HD13	1:B:255:ASP:O	2.13	0.48
1:B:281:TYR:O	1:B:282:CYS:HB3	2.14	0.48
1:B:330:GLN:HB3	1:B:379:ALA:CB	2.23	0.48
1:A:396:GLY:CA	1:B:405:THR:HG23	2.44	0.48
1:B:518:LEU:HA	1:B:547:PHE:HD1	1.78	0.48
1:C:766:ARG:O	1:C:770:LEU:HB2	2.13	0.48
1:D:340:LEU:HG	1:D:353:ALA:H	2.16	0.48
1:D:415:TRP:CH2	1:D:417:LYS:HB3	2.51	0.48
1:E:122:HIS:CG	1:E:159:VAL:HB	2.64	0.48
1:E:529:ILE:HD13	1:E:583:VAL:HG11	1.95	0.48
1:F:335:LYS:HZ3	1:F:335:LYS:HB2	1.78	0.48
1:G:285:LEU:CD1	1:G:315:ARG:HH11	2.69	0.48
1:G:458:VAL:CG1	1:G:489:LEU:HD12	2.43	0.48
1:G:471:TYR:HD1	1:G:478:ALA:HB2	2.28	0.48
1:H:597:ARG:HG3	1:H:600:ARG:HH21	1.79	0.48
1:I:123:LEU:HA	1:I:158:GLU:HA	2.03	0.48
1:I:354:GLY:C	1:J:328:GLU:HG3	3.96	0.48
1:I:698:GLU:HA	1:I:698:GLU:OE2	2.13	0.48
1:J:245:THR:HG22	1:J:246:GLY:N	2.27	0.48
1:J:235:PHE:CE1	1:J:264:TYR:CE1	3.07	0.48
1:J:235:PHE:CZ	1:J:264:TYR:CE1	3.02	0.48
1:J:273:ILE:HG23	1:J:310:LEU:HD11	2.03	0.48
1:J:573:LYS:HE3	1:K:522:PHE:CZ	2.49	0.48
1:K:599:ILE:C	1:K:601:MET:N	2.67	0.48
1:L:692:LYS:HG2	1:L:696:GLN:HE21	1.78	0.48
1:M:244:ARG:O	1:M:247:GLU:HB2	2.54	0.48
1:N:63:ASN:N	1:N:64:PRO:HD2	2.29	0.48
1:O:122:HIS:CG	1:O:159:VAL:HB	2.49	0.48
1:P:262:ASP:HB3	1:P:264:TYR:HE1	1.70	0.48
1:P:623:ARG:CG	1:P:624:ASP:N	2.76	0.48
1:Q:30:VAL:HG22	1:Q:74:LEU:CG	2.42	0.48
1:S:517:LEU:H	1:S:517:LEU:CD1	2.19	0.48
1:T:390:VAL:HG12	1:T:408:LEU:HD23	1.96	0.48
1:U:340:LEU:HD23	1:U:352:GLN:HA	1.95	0.48
1:U:472:ASP:HA	1:U:493:GLU:CB	2.43	0.48
1:V:18:VAL:H	1:V:48:VAL:CG1	2.20	0.48
1:V:415:TRP:CH2	1:V:417:LYS:HB3	2.49	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:600:ARG:NH1	1:W:622:ALA:HB3	2.28	0.48
1:Y:474:ARG:CG	1:Y:492:GLU:HB2	2.43	0.48
1:Y:8:ILE:HG22	1:Y:40:ASN:HD21	1.78	0.48
1:Z:273:ILE:HG21	1:Z:316:LEU:HD11	1.96	0.48
1:Y:708:GLU:HG3	1:Z:716:VAL:HG11	1.96	0.48
1:A:130:GLU:HB2	1:A:136:LYS:HA	1.95	0.48
1:A:571:ALA:O	1:A:575:ILE:HG13	2.14	0.48
1:A:606:PHE:HD1	1:A:606:PHE:H	1.61	0.48
1:A:790:VAL:HG21	1:Z:785:GLN:CA	132.63	0.48
1:B:338:GLN:HB3	1:B:339:PRO:HD3	1.95	0.48
1:C:184:ASP:HB3	1:C:187:GLY:O	2.40	0.48
1:C:226:ALA:O	1:C:269:GLY:HA2	2.43	0.48
1:C:279:ARG:HA	1:C:323:VAL:HG22	1.94	0.48
1:D:808:ARG:O	1:D:811:ALA:HB3	2.60	0.48
1:E:116:LEU:O	1:E:118:ASN:N	2.54	0.48
1:E:154:GLN:CG	1:E:155:LYS:N	2.80	0.48
1:E:330:GLN:HG3	1:E:379:ALA:HB3	2.44	0.48
1:E:380:ILE:CD1	1:E:388:ILE:HD13	2.61	0.48
1:E:693:ILE:HD12	1:E:696:GLN:HE22	5.62	0.48
1:F:65:VAL:HG12	1:F:110:THR:CG2	2.44	0.48
1:F:128:ASP:OD1	1:F:131:ASP:HB3	2.38	0.48
1:F:382:LEU:HD11	1:F:388:ILE:HG13	1.96	0.48
1:G:231:ALA:O	1:G:245:THR:HA	2.70	0.48
1:G:242:LEU:H	1:G:242:LEU:HD23	1.79	0.48
1:G:251:VAL:HG23	1:G:254:GLN:NE2	2.51	0.48
1:G:382:LEU:N	1:G:405:THR:HG22	2.28	0.48
1:G:465:ASN:HB3	1:G:519:GLY:HA3	2.06	0.48
1:G:623:ARG:HG3	1:G:624:ASP:H	1.77	0.48
1:H:676:GLU:OE1	1:H:676:GLU:HA	2.23	0.48
1:I:113:GLN:HG2	1:I:150:THR:HB	2.16	0.48
1:I:132:LYS:CE	1:I:152:ILE:HD12	2.52	0.48
1:I:226:ALA:HB3	1:I:270:VAL:CG1	2.44	0.48
1:I:419:LEU:HG	1:I:420:PRO:CD	2.28	0.48
1:I:508:PRO:O	1:I:509:HIS:HD2	2.66	0.48
1:K:175:ARG:HB2	1:K:213:LEU:O	2.14	0.48
1:K:182:CYS:SG	1:K:208:VAL:HG23	3.03	0.48
1:K:472:ASP:HA	1:K:493:GLU:CB	2.43	0.48
1:K:758:GLU:O	1:K:762:VAL:HG23	2.40	0.48
1:L:291:ASP:C	1:L:293:LYS:H	2.24	0.48
1:L:5:GLU:HB2	1:L:41:GLU:OE1	2.13	0.48
1:L:733:ALA:HA	1:L:736:GLU:HB2	2.32	0.48
1:L:60:ILE:HB	1:L:93:ALA:HA	2.16	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:288:MET:HB3	1:M:294:ASN:HA	1.96	0.48
1:L:354:GLY:O	1:M:328:GLU:HG3	2.13	0.48
1:M:340:LEU:HG	1:M:353:ALA:HB2	2.16	0.48
1:N:70:GLN:HE21	1:N:104:VAL:HG12	1.79	0.48
1:O:298:GLN:HG3	1:P:305:GLU:CD	2.33	0.48
1:O:408:LEU:H	1:O:408:LEU:HD12	1.78	0.48
1:Q:14:HIS:HB2	1:Q:56:ARG:CB	2.43	0.48
1:Q:30:VAL:HA	1:Q:74:LEU:HD11	1.95	0.48
1:Q:496:THR:HG22	1:Q:496:THR:O	2.13	0.48
1:Q:60:ILE:HG12	1:Q:92:LEU:O	2.13	0.48
1:S:426:LEU:C	1:S:428:ASN:H	2.16	0.48
1:T:388:ILE:HD13	1:T:388:ILE:H	1.79	0.48
1:T:633:LEU:HD23	1:T:634:VAL:N	2.29	0.48
1:U:276:LEU:N	1:U:280:HIS:HB2	2.29	0.48
1:V:332:LEU:HD11	1:V:379:ALA:HB2	1.96	0.48
1:W:311:GLN:HB2	1:W:314:GLU:HG3	1.95	0.48
1:W:332:LEU:HD21	1:W:407:MET:HB3	1.94	0.48
1:W:60:ILE:HD11	1:W:95:ASP:O	2.14	0.48
1:X:59:CYS:C	1:X:60:ILE:HD13	2.34	0.48
1:Y:115:VAL:N	1:Y:118:ASN:ND2	2.46	0.48
1:Z:383:ASP:N	1:Z:383:ASP:OD1	2.46	0.48
1:A:284:ILE:CD1	1:A:300:ARG:HB3	3.19	0.48
1:B:311:GLN:HB3	1:B:312:PRO:HD2	1.95	0.48
1:A:354:GLY:C	1:B:328:GLU:HG3	4.65	0.48
1:C:122:HIS:HB3	1:C:160:VAL:H	1.79	0.48
1:C:162:ILE:HD12	1:C:205:LEU:HG	1.95	0.48
1:C:654:LEU:HD13	1:D:662:ILE:HD13	1.94	0.48
1:C:745:LYS:HG3	1:D:753:ILE:HD13	2.21	0.48
1:C:771:ILE:HA	1:C:774:ARG:NH1	2.29	0.48
1:D:129:PHE:O	1:D:137:VAL:CB	2.48	0.48
1:D:175:ARG:HB3	1:D:212:VAL:HB	1.96	0.48
1:D:235:PHE:CB	1:D:264:TYR:HH	2.26	0.48
1:D:262:ASP:HB3	1:D:264:TYR:CZ	2.49	0.48
1:D:495:PHE:CB	1:D:514:LEU:HD11	2.45	0.48
1:D:504:ARG:HH11	1:D:504:ARG:HA	2.82	0.48
1:D:502:ALA:HB3	1:D:510:ALA:HB3	2.08	0.48
1:C:563:SER:HB3	1:D:520:PRO:HG3	2.11	0.48
1:C:719:THR:HG22	1:D:728:SER:HA	1.94	0.48
1:E:284:ILE:CD1	1:E:300:ARG:HB3	3.03	0.48
1:F:217:ASP:OD1	1:F:257:GLU:O	2.32	0.48
1:F:221:LEU:HA	1:F:253:VAL:HG13	1.95	0.48
1:F:389:TYR:CZ	1:F:457:VAL:HA	2.55	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:89:GLU:HA	1:F:90:ILE:HD13	3.04	0.48
1:G:124:LYS:HB2	1:G:142:GLU:HG2	1.95	0.48
1:G:338:GLN:CB	1:G:339:PRO:CD	2.85	0.48
1:G:354:GLY:O	1:G:356:CYS:N	2.56	0.48
1:G:580:ARG:HH22	1:H:595:SER:CB	2.27	0.48
1:G:692:LYS:HG2	1:G:696:GLN:HE21	1.78	0.48
1:H:123:LEU:HG	1:H:143:TRP:HB2	1.96	0.48
1:H:155:LYS:HZ2	1:H:155:LYS:HB2	1.79	0.48
1:H:281:TYR:CE2	1:H:367:PRO:HD2	2.49	0.48
1:H:284:ILE:CD1	1:H:300:ARG:HB3	2.44	0.48
1:H:60:ILE:O	1:H:60:ILE:HD13	2.92	0.48
1:I:6:ALA:HB1	1:I:42:ARG:HH22	3.31	0.48
1:J:60:ILE:HG22	1:J:66:SER:HA	2.00	0.48
1:K:469:GLN:HB2	1:K:562:PHE:CE1	3.00	0.48
1:K:76:ASP:CG	1:K:81:VAL:HA	2.64	0.48
1:L:60:ILE:HG12	1:L:92:LEU:O	2.13	0.48
1:M:580:ARG:HH22	1:N:595:SER:CB	2.19	0.48
1:N:653:ALA:HB2	1:O:659:GLN:HE22	1.77	0.48
1:O:185:ARG:HG3	1:O:206:PRO:HB3	1.96	0.48
1:O:398:VAL:HG11	1:O:415:TRP:CD2	2.48	0.48
1:O:529:ILE:HD12	1:O:583:VAL:CG1	2.34	0.48
1:Q:220:ILE:C	1:Q:222:THR:N	2.66	0.48
1:R:474:ARG:NH2	1:S:384:GLN:HG2	2.29	0.48
1:T:529:ILE:HG22	1:T:580:ARG:CB	2.42	0.48
1:V:221:LEU:HA	1:V:253:VAL:HG13	1.95	0.48
1:W:100:TYR:HB3	1:W:101:PRO:CD	2.44	0.48
1:W:171:ASN:O	1:W:216:VAL:HA	2.13	0.48
1:W:414:LEU:HB3	1:W:455:THR:HG21	1.95	0.48
1:X:130:GLU:OE1	1:X:136:LYS:HG2	2.14	0.48
1:Y:185:ARG:NH1	1:Y:206:PRO:HB3	2.29	0.48
1:Y:286:ASP:N	1:Y:287:PRO:HD3	2.29	0.48
1:X:394:LYS:HA	1:Y:329:GLN:NE2	2.28	0.48
1:Z:234:ASN:ND2	1:Z:245:THR:H	2.12	0.48
1:Z:327:SER:HB2	1:Z:331:GLY:CA	2.44	0.48
1:Z:518:LEU:HA	1:Z:547:PHE:HD1	1.78	0.48
1:Z:571:ALA:HA	1:Z:628:PHE:CE1	2.48	0.48
1:A:334:LEU:HD12	1:A:377:ARG:NH2	2.29	0.48
1:A:501:SER:CB	1:A:507:ARG:O	2.61	0.48
1:A:640:VAL:HG13	1:A:640:VAL:O	2.23	0.48
1:A:803:GLY:HA3	1:A:806:THR:HB	1.94	0.48
1:B:183:PHE:CG	1:B:190:ARG:HD3	3.45	0.48
1:B:236:ARG:HH11	1:B:236:ARG:HB3	1.78	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:383:ASP:HB2	1:B:386:GLU:HG2	1.95	0.48
1:B:539:LEU:HA	1:B:642:SER:O	2.14	0.48
1:D:338:GLN:CB	1:D:339:PRO:CD	2.91	0.48
1:D:605:GLY:O	1:D:623:ARG:HB2	2.38	0.48
1:E:268:LEU:HD13	1:E:269:GLY:O	2.14	0.48
1:E:58:TYR:HD1	1:E:99:LEU:CD1	2.54	0.48
1:E:766:ARG:HG3	1:F:772:TYR:CD1	2.62	0.48
1:E:9:ARG:NH2	1:E:15:TYR:HB3	2.47	0.48
1:F:172:GLN:HG3	1:F:216:VAL:HG12	2.82	0.48
1:F:527:ILE:H	1:F:527:ILE:CD1	2.22	0.48
1:F:84:ARG:NH1	1:F:85:HIS:HE1	2.12	0.48
1:H:330:GLN:HB3	1:H:379:ALA:HB3	1.95	0.48
1:H:389:TYR:CZ	1:H:457:VAL:HA	2.61	0.48
1:H:399:ARG:HE	1:H:401:VAL:HG22	2.55	0.48
1:H:526:VAL:HG22	1:H:540:GLN:HG2	1.98	0.48
1:I:230:ARG:HD3	1:I:246:GLY:O	2.66	0.48
1:J:132:LYS:HG3	1:J:133:ASN:H	2.08	0.48
1:J:146:GLU:OE1	1:J:146:GLU:HA	2.13	0.48
1:J:235:PHE:CE1	1:J:237:ASP:HA	2.48	0.48
1:J:70:GLN:HB3	1:J:104:VAL:N	2.20	0.48
1:I:770:LEU:HD23	1:J:772:TYR:HE1	2.59	0.48
1:I:807:ILE:HD13	1:J:806:THR:HG21	1.96	0.48
1:K:115:VAL:H	1:K:118:ASN:ND2	2.30	0.48
1:K:792:ALA:HA	1:K:795:PHE:HB3	2.33	0.48
1:L:747:LYS:HA	1:L:747:LYS:HD3	1.63	0.48
1:K:759:LEU:HD13	1:L:768:MET:HG3	2.20	0.48
1:M:163:ILE:HD12	1:M:163:ILE:H	2.15	0.48
1:M:341:GLU:HG2	1:M:370:LYS:HD3	1.95	0.48
1:M:531:THR:OG1	1:M:535:ALA:HB3	2.13	0.48
1:N:332:LEU:HD21	1:N:407:MET:HB3	1.94	0.48
1:N:338:GLN:CB	1:N:339:PRO:CD	2.90	0.48
1:N:418:GLU:HG2	1:N:423:VAL:HG22	1.95	0.48
1:N:807:ILE:HD12	1:O:806:THR:HG21	1.95	0.48
1:O:130:GLU:H	1:O:137:VAL:HG13	1.79	0.48
1:O:45:PHE:HB2	1:O:48:VAL:HG23	1.96	0.48
1:O:54:PRO:HB2	1:O:55:PRO:CD	2.39	0.48
1:P:123:LEU:HG	1:P:143:TRP:HB2	1.95	0.48
1:P:154:GLN:CG	1:P:155:LYS:HG3	2.42	0.48
1:P:532:ALA:HB1	1:Q:593:LYS:HE2	1.95	0.48
1:P:543:TYR:CE2	1:P:575:ILE:HG21	2.49	0.48
1:Q:151:TYR:CD1	1:Q:151:TYR:N	2.82	0.48
1:Q:217:ASP:HB2	1:Q:258:ALA:HA	1.94	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:494:GLN:NE2	1:Q:494:GLN:HA	2.28	0.48
1:R:130:GLU:OE1	1:R:136:LYS:HG2	2.14	0.48
1:R:503:GLY:O	1:R:506:LYS:HD3	2.14	0.48
1:Q:649:ARG:NH2	1:R:655:GLN:HG2	2.29	0.48
1:R:813:ALA:O	1:R:815:PRO:HD3	2.14	0.48
1:S:587:THR:HG23	1:S:590:ASP:HB3	1.95	0.48
1:T:122:HIS:O	1:T:159:VAL:N	2.32	0.48
1:T:18:VAL:O	1:T:32:PRO:HB3	2.13	0.48
1:U:286:ASP:N	1:U:287:PRO:HD3	2.28	0.48
1:T:580:ARG:NH2	1:U:595:SER:HB2	2.16	0.48
1:V:221:LEU:HD21	1:V:256:THR:CG2	2.43	0.48
1:V:236:ARG:NH1	1:V:236:ARG:HB3	2.29	0.48
1:V:771:ILE:HD13	1:V:774:ARG:NH1	2.29	0.48
1:W:384:GLN:HE21	1:W:384:GLN:N	2.06	0.48
1:W:60:ILE:HD13	1:W:60:ILE:H	1.78	0.48
1:X:473:TYR:HD2	1:Y:486:LEU:HB3	1.78	0.48
1:X:591:PHE:O	1:X:595:SER:N	2.47	0.48
1:Y:185:ARG:HG3	1:Y:206:PRO:CB	2.43	0.48
1:Y:279:ARG:O	1:Y:323:VAL:N	2.44	0.48
1:Y:58:TYR:HD1	1:Y:99:LEU:HD12	1.79	0.48
1:Z:109:ILE:CD1	1:Z:153:PRO:CB	2.82	0.48
1:Z:334:LEU:HD12	1:Z:377:ARG:NH2	2.29	0.48
1:Z:603:VAL:HG21	1:Z:638:VAL:HG21	1.96	0.48
1:A:516:LEU:HD21	1:A:567:PHE:CE1	3.19	0.48
1:A:529:ILE:HD12	1:A:583:VAL:HG11	3.47	0.48
1:A:74:LEU:HD22	1:A:100:TYR:HE2	1.87	0.48
1:A:793:LYS:HE2	1:M:785:GLN:HE21	137.19	0.48
1:B:120:ALA:HB2	1:B:164:GLN:NE2	2.29	0.48
1:B:564:VAL:CG2	1:B:631:ASN:ND2	2.83	0.48
1:C:10:ILE:HD13	1:C:13:TYR:CE2	2.95	0.48
1:E:68:ASP:O	1:E:106:GLU:HB2	2.35	0.48
1:E:273:ILE:CG2	1:E:310:LEU:HD11	2.44	0.48
1:E:332:LEU:HD11	1:E:379:ALA:HB2	1.96	0.48
1:F:166:THR:HA	1:F:202:GLY:HA2	1.96	0.48
1:F:174:LEU:CB	1:F:198:VAL:HB	2.75	0.48
1:F:291:ASP:C	1:F:293:LYS:H	2.23	0.48
1:F:32:PRO:HG2	1:G:11:PRO:HG2	1.96	0.48
1:G:388:ILE:HD13	1:G:388:ILE:H	3.83	0.48
1:G:419:LEU:CD2	1:G:422:GLY:H	2.37	0.48
1:G:465:ASN:ND2	1:G:520:PRO:HD2	2.29	0.48
1:G:73:VAL:HG11	1:G:82:ARG:HB2	2.40	0.48
1:H:167:VAL:HG13	1:H:202:GLY:H	1.78	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:125:ALA:O	1:I:140:GLY:HA2	2.70	0.48
1:I:262:ASP:HB3	1:I:264:TYR:HE1	1.75	0.48
1:I:462:VAL:HB	1:I:485:GLU:O	2.14	0.48
1:I:766:ARG:O	1:I:770:LEU:HB2	2.40	0.48
1:J:154:GLN:CG	1:J:155:LYS:HE3	2.80	0.48
1:J:288:MET:CE	1:J:294:ASN:HD22	2.18	0.48
1:J:339:PRO:HD2	1:J:370:LYS:HB3	1.95	0.48
1:K:137:VAL:HG23	1:K:143:TRP:HE1	5.64	0.48
1:K:164:GLN:HB3	1:K:204:TYR:HA	1.98	0.48
1:L:114:VAL:HA	1:L:118:ASN:HD21	1.78	0.48
1:L:11:PRO:CA	1:L:38:GLN:HA	2.38	0.48
1:M:175:ARG:HA	1:M:196:TRP:O	2.22	0.48
1:M:426:LEU:C	1:M:428:ASN:H	2.17	0.48
1:M:717:GLU:O	1:M:721:ASN:HB2	2.13	0.48
1:M:394:LYS:NZ	1:N:329:GLN:HG3	2.29	0.48
1:O:579:VAL:HG22	1:O:599:ILE:HG23	1.96	0.48
1:Q:324:TYR:O	1:Q:365:TYR:N	2.36	0.48
1:Q:70:GLN:CG	1:Q:104:VAL:H	2.26	0.48
1:R:426:LEU:C	1:R:428:ASN:H	2.18	0.48
1:R:7:ILE:O	1:R:41:GLU:HG3	2.13	0.48
1:S:181:GLU:HG3	1:S:181:GLU:O	2.14	0.48
1:S:221:LEU:HA	1:S:253:VAL:HG13	1.94	0.48
1:S:67:ARG:HH21	1:S:107:LYS:CA	2.25	0.48
1:S:808:ARG:O	1:S:812:VAL:HG23	2.14	0.48
1:U:73:VAL:HG21	1:U:82:ARG:HB2	1.95	0.48
1:X:17:HIS:CD2	1:X:18:VAL:HG22	2.49	0.48
1:X:224:LYS:O	1:X:272:PRO:HD3	2.13	0.48
1:X:230:ARG:HH11	1:X:230:ARG:HB3	1.79	0.48
1:X:416:GLU:HB2	1:X:454:LYS:HB3	1.95	0.48
1:Y:279:ARG:HG3	1:Y:280:HIS:HD2	1.78	0.48
1:Y:540:GLN:HG3	1:Y:642:SER:HB3	1.96	0.48
1:Y:681:GLU:HG3	1:Y:685:ARG:HH21	1.79	0.48
1:A:221:LEU:CD2	1:A:256:THR:CB	2.91	0.47
1:A:340:LEU:HG	1:A:353:ALA:N	2.67	0.47
1:A:734:ARG:HH21	1:A:735:ILE:CD1	3.65	0.47
1:B:339:PRO:HG3	1:C:278:PRO:HA	1.95	0.47
1:C:122:HIS:CG	1:C:159:VAL:HB	2.49	0.47
1:D:221:LEU:HA	1:D:253:VAL:HG13	2.09	0.47
1:D:522:PHE:C	1:D:522:PHE:CD2	2.88	0.47
1:D:566:ASP:OD2	1:D:569:GLY:HA3	2.14	0.47
1:E:395:THR:HB	1:E:397:LYS:H	1.83	0.47
1:F:165:ALA:O	1:F:203:ALA:O	2.40	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:230:ARG:HG2	1:G:248:GLU:HG2	2.48	0.47
1:G:276:LEU:O	1:G:277:GLY:C	2.79	0.47
1:G:333:LEU:HD23	1:G:376:GLU:HA	1.97	0.47
1:G:522:PHE:HD2	1:G:522:PHE:C	2.36	0.47
1:J:252:THR:O	1:J:253:VAL:C	2.57	0.47
1:J:414:LEU:HB3	1:J:455:THR:HG21	1.95	0.47
1:J:794:LYS:HD3	1:J:798:MET:HG3	1.96	0.47
1:K:109:ILE:CD1	1:K:153:PRO:CB	2.69	0.47
1:K:234:ASN:HA	1:K:243:HIS:O	2.14	0.47
1:J:297:GLY:O	1:K:276:LEU:HD22	2.44	0.47
1:K:339:PRO:HG3	1:L:278:PRO:HB3	1.95	0.47
1:K:645:PRO:HG2	1:K:651:ARG:HG3	1.95	0.47
1:J:777:LEU:CD1	1:K:783:LYS:HB2	2.44	0.47
1:L:215:LEU:HD12	1:L:259:HIS:CE1	2.49	0.47
1:L:327:SER:O	1:L:331:GLY:N	2.47	0.47
1:L:395:THR:HG21	1:L:397:LYS:HE2	2.38	0.47
1:L:464:HIS:HA	1:L:484:PRO:HB3	1.96	0.47
1:M:15:TYR:CE2	1:M:17:HIS:HB3	2.49	0.47
1:M:244:ARG:N	1:M:247:GLU:OE1	2.32	0.47
1:M:296:LEU:HD22	1:M:296:LEU:N	2.29	0.47
1:M:796:LYS:HA	1:M:799:THR:HG22	2.00	0.47
1:N:114:VAL:HG12	1:N:118:ASN:HD21	1.79	0.47
1:N:184:ASP:O	1:N:187:GLY:O	2.32	0.47
1:N:384:GLN:HE21	1:N:384:GLN:N	2.12	0.47
1:O:174:LEU:CB	1:O:198:VAL:HB	2.43	0.47
1:O:594:ASN:HB2	1:O:598:ILE:HD13	1.95	0.47
1:Q:180:LYS:O	1:Q:182:CYS:N	2.47	0.47
1:Q:189:GLY:O	1:Q:190:ARG:HB3	2.14	0.47
1:Q:359:ILE:O	1:Q:359:ILE:HD12	2.13	0.47
1:Q:725:GLU:O	1:Q:728:SER:HB3	2.13	0.47
1:S:115:VAL:O	1:S:118:ASN:CB	2.57	0.47
1:R:138:MET:SD	1:S:148:PRO:HG2	2.54	0.47
1:S:227:LEU:HD13	1:S:229:LEU:HD21	1.95	0.47
1:U:205:LEU:HD22	1:U:211:GLU:HB2	1.95	0.47
1:U:339:PRO:HG3	1:V:278:PRO:HA	1.95	0.47
1:U:462:VAL:HB	1:U:485:GLU:O	2.13	0.47
1:V:501:SER:H	1:V:568:VAL:CG2	2.27	0.47
1:W:338:GLN:CB	1:W:339:PRO:HD3	2.43	0.47
1:W:676:GLU:OE1	1:W:676:GLU:HA	2.13	0.47
1:X:227:LEU:HB2	1:X:251:VAL:CG1	2.43	0.47
1:X:250:LEU:HD23	1:X:250:LEU:H	1.79	0.47
1:A:130:GLU:HA	1:A:137:VAL:H	2.11	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:252:THR:O	1:A:253:VAL:C	2.52	0.47
1:A:58:TYR:HD1	1:A:99:LEU:HD12	2.21	0.47
1:B:164:GLN:NE2	1:B:204:TYR:CB	2.78	0.47
1:B:284:ILE:HG12	1:B:287:PRO:HB3	3.87	0.47
1:B:286:ASP:N	1:B:287:PRO:HD3	2.29	0.47
1:B:338:GLN:HB2	1:B:339:PRO:CD	2.40	0.47
1:B:43:VAL:HG12	1:B:45:PHE:O	2.14	0.47
1:B:8:ILE:HG22	1:B:40:ASN:HD21	1.84	0.47
1:C:109:ILE:HD12	1:C:153:PRO:HB2	1.88	0.47
1:C:354:GLY:C	1:D:328:GLU:HG3	2.34	0.47
1:D:337:LEU:HD23	1:D:337:LEU:H	1.78	0.47
1:D:687:ARG:HG2	1:D:691:GLN:HE21	1.87	0.47
1:E:123:LEU:CG	1:E:143:TRP:HB2	2.45	0.47
1:E:152:ILE:CD1	1:E:155:LYS:HZ1	3.92	0.47
1:E:281:TYR:O	1:E:282:CYS:HB3	2.14	0.47
1:E:495:PHE:CB	1:E:514:LEU:HD11	2.42	0.47
1:E:662:ILE:O	1:E:666:THR:HB	2.15	0.47
1:F:486:LEU:HD23	1:F:486:LEU:O	2.13	0.47
1:G:36:ILE:HG21	1:G:99:LEU:HD13	1.95	0.47
1:G:192:THR:HG23	1:H:202:GLY:HA3	2.44	0.47
1:H:327:SER:CA	1:H:331:GLY:HA3	2.87	0.47
1:H:73:VAL:N	1:H:84:ARG:HB2	2.28	0.47
1:G:799:THR:HG21	1:H:801:ALA:HB1	1.96	0.47
1:I:122:HIS:HB3	1:I:160:VAL:H	1.79	0.47
1:I:623:ARG:CG	1:I:624:ASP:H	2.27	0.47
1:I:560:LYS:HD2	1:I:630:GLN:O	2.13	0.47
1:J:255:ASP:OD2	1:J:257:GLU:HB3	2.68	0.47
1:J:16:ILE:HB	1:J:51:VAL:HB	1.96	0.47
1:J:500:LEU:HA	1:J:566:ASP:OD1	2.14	0.47
1:J:77:ILE:HG13	1:J:80:GLN:H	2.29	0.47
1:K:189:GLY:O	1:K:190:ARG:HB3	2.14	0.47
1:K:276:LEU:HB3	1:K:280:HIS:CG	2.49	0.47
1:K:589:ASP:HB2	1:L:665:THR:HG21	2.02	0.47
1:L:326:LEU:HA	1:L:326:LEU:HD23	1.91	0.47
1:L:469:GLN:HB3	1:L:496:THR:CG2	2.43	0.47
1:L:572:CYS:O	1:L:573:LYS:C	2.53	0.47
1:M:474:ARG:CG	1:M:492:GLU:HB2	2.31	0.47
1:N:120:ALA:HB2	1:N:164:GLN:NE2	2.29	0.47
1:N:175:ARG:HH21	1:N:263:VAL:HG13	1.79	0.47
1:N:506:LYS:HE2	1:N:524:THR:O	2.14	0.47
1:P:452:ARG:NH1	1:P:452:ARG:HG3	2.29	0.47
1:Q:234:ASN:ND2	1:Q:245:THR:H	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:18:VAL:H	1:R:48:VAL:CG1	2.21	0.47
1:R:63:ASN:N	1:R:64:PRO:HD2	2.28	0.47
1:R:654:LEU:CD1	1:S:662:ILE:HD12	2.43	0.47
1:S:470:VAL:HB	1:S:479:ARG:HD2	1.96	0.47
1:S:560:LYS:HD2	1:S:630:GLN:O	2.14	0.47
1:S:60:ILE:HD13	1:S:93:ALA:O	2.14	0.47
1:T:84:ARG:HH22	1:T:101:PRO:HD2	1.79	0.47
1:U:130:GLU:HB2	1:U:136:LYS:HA	1.97	0.47
1:W:124:LYS:HG2	1:W:157:VAL:O	2.14	0.47
1:W:243:HIS:NE2	1:W:249:TRP:CE2	2.82	0.47
1:Z:146:GLU:HG3	1:Z:204:TYR:CE2	2.48	0.47
1:A:128:ASP:C	1:A:129:PHE:HD1	2.73	0.47
1:B:273:ILE:HG21	1:B:316:LEU:HD11	2.06	0.47
1:C:58:TYR:CD1	1:C:98:PRO:HA	2.91	0.47
1:D:36:ILE:O	1:D:37:ARG:HG3	2.13	0.47
1:D:402:ILE:HD12	1:D:402:ILE:O	2.15	0.47
1:D:74:LEU:HD22	1:D:100:TYR:HE2	1.79	0.47
1:E:337:LEU:HD12	1:E:339:PRO:O	2.27	0.47
1:E:501:SER:HA	1:E:507:ARG:O	2.36	0.47
1:F:527:ILE:CD1	1:F:539:LEU:HB2	2.35	0.47
1:F:551:ASN:HB3	1:F:554:ASP:CB	2.67	0.47
1:G:154:GLN:HG3	1:G:155:LYS:HE3	2.21	0.47
1:G:327:SER:N	1:G:331:GLY:HA3	2.38	0.47
1:G:60:ILE:HD13	1:G:60:ILE:N	3.58	0.47
1:G:653:ALA:HB3	1:H:662:ILE:HD13	2.24	0.47
1:H:532:ALA:HB2	1:H:584:ALA:O	2.14	0.47
1:H:566:ASP:OD2	1:H:569:GLY:HA3	2.14	0.47
1:I:235:PHE:CE1	1:I:237:ASP:HA	2.49	0.47
1:I:236:ARG:NH1	1:I:236:ARG:HB3	2.30	0.47
1:I:297:GLY:O	1:J:276:LEU:HD22	2.14	0.47
1:I:538:GLN:HB2	1:I:646:VAL:HG22	1.95	0.47
1:J:65:VAL:HA	1:J:110:THR:HG22	2.16	0.47
1:J:60:ILE:HG12	1:J:92:LEU:O	2.28	0.47
1:K:67:ARG:HH21	1:K:107:LYS:CA	2.43	0.47
1:L:14:HIS:HA	1:L:36:ILE:HB	1.96	0.47
1:L:523:PHE:CD1	1:L:545:TRP:NE1	2.91	0.47
1:L:531:THR:HG21	1:L:588:PHE:HA	2.30	0.47
1:K:697:SER:HB3	1:L:706:LEU:HB2	1.96	0.47
1:M:389:TYR:CZ	1:M:457:VAL:HA	2.64	0.47
1:M:660:LEU:HA	1:M:663:GLU:HB3	2.23	0.47
1:N:692:LYS:HG2	1:N:696:GLN:HE21	1.79	0.47
1:N:759:LEU:HD22	1:O:768:MET:HG3	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:173:ALA:HB1	1:O:198:VAL:O	2.14	0.47
1:O:18:VAL:N	1:O:48:VAL:HG13	2.18	0.47
1:P:326:LEU:HD23	1:P:326:LEU:HA	1.69	0.47
1:P:533:ASP:N	1:P:533:ASP:OD1	2.46	0.47
1:Q:327:SER:O	1:Q:328:GLU:HB2	2.14	0.47
1:R:171:ASN:O	1:R:216:VAL:HG12	2.14	0.47
1:Q:244:ARG:HB3	1:R:221:LEU:CD2	2.44	0.47
1:R:260:VAL:CA	1:R:264:TYR:H	2.22	0.47
1:R:340:LEU:HG	1:R:353:ALA:H	1.79	0.47
1:R:522:PHE:HD2	1:R:522:PHE:C	2.17	0.47
1:R:597:ARG:O	1:R:601:MET:HB2	2.14	0.47
1:S:279:ARG:HA	1:S:323:VAL:HG22	1.96	0.47
1:T:331:GLY:O	1:T:360:ARG:HB2	2.14	0.47
1:T:465:ASN:HB3	1:T:519:GLY:HA3	1.96	0.47
1:T:601:MET:HG2	1:T:622:ALA:CB	2.44	0.47
1:U:332:LEU:HD23	1:U:358:LEU:HD11	1.94	0.47
1:U:681:GLU:HG3	1:U:685:ARG:HH21	1.78	0.47
1:V:462:VAL:HB	1:V:485:GLU:O	2.14	0.47
1:X:113:GLN:NE2	1:X:150:THR:HG22	2.28	0.47
1:X:281:TYR:O	1:X:282:CYS:HB3	2.15	0.47
1:X:704:LYS:HD2	1:Y:712:MET:CB	2.33	0.47
1:Y:354:GLY:O	1:Y:356:CYS:N	2.47	0.47
1:A:332:LEU:HD23	1:A:358:LEU:HD11	2.30	0.47
1:A:697:SER:CA	1:B:706:LEU:HD23	2.44	0.47
1:B:20:ASP:N	1:B:49:ARG:CD	4.81	0.47
1:B:226:ALA:O	1:B:269:GLY:HA2	2.56	0.47
1:B:330:GLN:CG	1:B:379:ALA:HB3	2.62	0.47
1:C:251:VAL:HG23	1:C:254:GLN:HE21	2.22	0.47
1:C:334:LEU:C	1:C:335:LYS:HG3	2.35	0.47
1:C:522:PHE:HD2	1:C:522:PHE:C	2.17	0.47
1:C:595:SER:O	1:C:599:ILE:HG12	2.15	0.47
1:D:5:GLU:CG	1:D:43:VAL:HG21	2.43	0.47
1:E:382:LEU:N	1:E:405:THR:HG22	2.28	0.47
1:F:124:LYS:HG3	1:F:125:ALA:N	2.27	0.47
1:F:326:LEU:HD13	1:F:360:ARG:HA	1.96	0.47
1:G:221:LEU:CD2	1:G:256:THR:HB	3.16	0.47
1:G:396:GLY:CA	1:H:405:THR:HG23	2.44	0.47
1:H:100:TYR:HD2	1:H:101:PRO:HD3	1.84	0.47
1:H:180:LYS:C	1:H:182:CYS:N	2.67	0.47
1:H:251:VAL:CG2	1:H:254:GLN:HE21	2.19	0.47
1:H:268:LEU:HD13	1:H:269:GLY:N	2.35	0.47
1:H:571:ALA:O	1:H:575:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:63:ASN:N	1:H:64:PRO:HD2	2.32	0.47
1:I:276:LEU:O	1:I:277:GLY:C	2.73	0.47
1:I:36:ILE:O	1:I:37:ARG:HG3	2.14	0.47
1:H:649:ARG:HH21	1:I:655:GLN:HG2	2.80	0.47
1:J:116:LEU:CB	1:J:117:PRO:HD2	2.31	0.47
1:J:296:LEU:N	1:J:296:LEU:HD22	2.66	0.47
1:J:597:ARG:O	1:J:601:MET:HB2	2.15	0.47
1:K:339:PRO:HG2	1:K:370:LYS:HE2	2.65	0.47
1:K:549:LEU:HD12	1:K:552:ARG:HA	2.10	0.47
1:L:3:THR:CG2	1:L:50:MET:HE1	2.48	0.47
1:M:185:ARG:HG3	1:M:206:PRO:HB3	2.25	0.47
1:N:11:PRO:HB2	1:N:12:PRO:HD3	1.96	0.47
1:N:40:ASN:HB3	1:N:42:ARG:HH11	1.80	0.47
1:N:571:ALA:O	1:N:575:ILE:HG12	2.15	0.47
1:N:752:ALA:O	1:N:756:GLU:HB2	2.13	0.47
1:O:175:ARG:HH21	1:O:263:VAL:HG13	1.79	0.47
1:O:332:LEU:HD11	1:O:379:ALA:HB2	1.96	0.47
1:O:760:GLU:O	1:O:764:LYS:HG2	2.14	0.47
1:O:808:ARG:O	1:O:812:VAL:HG23	2.14	0.47
1:P:175:ARG:HG3	1:P:215:LEU:HD23	1.96	0.47
1:Q:594:ASN:O	1:Q:595:SER:C	2.53	0.47
1:R:185:ARG:HH22	1:R:207:ALA:HB3	1.79	0.47
1:S:476:LYS:HE2	1:T:485:GLU:OE1	2.13	0.47
1:U:803:GLY:O	1:U:807:ILE:HG12	2.15	0.47
1:W:122:HIS:CE1	1:W:207:ALA:HB1	2.49	0.47
1:W:342:GLU:HA	1:W:350:SER:HA	1.96	0.47
1:Y:168:ILE:HD13	1:Y:172:GLN:CD	2.35	0.47
1:Y:653:ALA:HB3	1:Z:662:ILE:HD13	1.87	0.47
1:Z:14:HIS:ND1	1:Z:36:ILE:CG2	2.77	0.47
1:A:122:HIS:HB3	1:A:160:VAL:H	1.84	0.47
1:B:134:GLY:O	1:B:135:ASP:CB	3.34	0.47
1:B:180:LYS:O	1:B:182:CYS:N	2.72	0.47
1:B:224:LYS:O	1:B:272:PRO:HD3	2.14	0.47
1:B:474:ARG:HH22	1:C:384:GLN:HG2	2.21	0.47
1:B:53:VAL:CG1	1:B:56:ARG:HG3	2.45	0.47
1:B:73:VAL:N	1:B:84:ARG:HB2	2.29	0.47
1:C:243:HIS:NE2	1:C:249:TRP:CD2	2.77	0.47
1:D:249:TRP:CD1	1:D:249:TRP:N	2.86	0.47
1:F:70:GLN:HG2	1:F:104:VAL:H	1.78	0.47
1:F:130:GLU:HB2	1:F:136:LYS:CA	2.45	0.47
1:F:128:ASP:HB2	1:F:155:LYS:HB3	1.94	0.47
1:F:220:ILE:C	1:F:222:THR:N	2.67	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:664:ILE:O	1:F:668:SER:HB2	2.15	0.47
1:F:676:GLU:OE1	1:F:676:GLU:HA	2.24	0.47
1:F:794:LYS:O	1:F:798:MET:HG2	2.18	0.47
1:F:69:THR:O	1:F:88:GLN:HG3	2.14	0.47
1:G:417:LYS:O	1:G:418:GLU:HB2	2.14	0.47
1:G:452:ARG:NH1	1:G:452:ARG:HG3	2.36	0.47
1:I:176:LEU:HB2	1:I:196:TRP:CB	2.39	0.47
1:J:260:VAL:CB	1:J:263:VAL:HA	2.44	0.47
1:K:183:PHE:HA	1:K:190:ARG:HD3	1.96	0.47
1:J:766:ARG:HD2	1:K:768:MET:CE	2.53	0.47
1:K:701:LYS:HG3	1:L:709:LEU:HD13	1.96	0.47
1:M:771:ILE:HD13	1:M:774:ARG:HH11	1.75	0.47
1:N:174:LEU:CB	1:N:198:VAL:HB	2.44	0.47
1:N:226:ALA:HB3	1:N:270:VAL:HG13	1.96	0.47
1:N:560:LYS:HD2	1:N:630:GLN:O	2.15	0.47
1:N:67:ARG:HG2	1:N:108:ASP:HA	1.95	0.47
1:P:330:GLN:O	1:P:378:GLN:NE2	2.47	0.47
1:P:494:GLN:NE2	1:P:494:GLN:HA	2.30	0.47
1:Q:18:VAL:H	1:Q:48:VAL:CG1	2.19	0.47
1:Q:596:ALA:O	1:Q:600:ARG:HB2	2.15	0.47
1:R:15:TYR:O	1:R:34:THR:OG1	2.31	0.47
1:S:170:GLN:HE21	1:S:256:THR:HG23	1.78	0.47
1:S:535:ALA:HA	1:T:658:VAL:HG21	1.95	0.47
1:S:63:ASN:N	1:S:64:PRO:HD2	2.29	0.47
1:T:260:VAL:CB	1:T:263:VAL:HA	2.39	0.47
1:V:36:ILE:HG21	1:V:99:LEU:H	1.80	0.47
1:W:5:GLU:O	1:W:41:GLU:O	2.32	0.47
1:X:693:ILE:HD12	1:X:696:GLN:NE2	2.29	0.47
1:Y:676:GLU:OE1	1:Y:676:GLU:HA	2.14	0.47
1:Z:490:ASP:O	1:Z:492:GLU:N	2.47	0.47
1:Z:526:VAL:HG22	1:Z:540:GLN:HG2	1.96	0.47
1:Z:648:GLN:HA	1:Z:648:GLN:HE21	1.79	0.47
1:A:706:LEU:HD23	1:Z:697:SER:HA	178.15	0.47
1:A:13:TYR:CD1	1:A:13:TYR:N	2.88	0.47
1:A:60:ILE:CD1	1:A:93:ALA:HA	2.77	0.47
1:B:65:VAL:HA	1:B:110:THR:HG22	2.26	0.47
1:C:164:GLN:NE2	1:C:204:TYR:HB2	2.30	0.47
1:C:11:PRO:CA	1:C:38:GLN:HA	2.53	0.47
1:C:750:ALA:O	1:C:753:ILE:HG22	2.27	0.47
1:C:29:GLU:O	1:C:84:ARG:HD3	2.30	0.47
1:D:124:LYS:HB2	1:D:142:GLU:HG2	2.42	0.47
1:D:164:GLN:CD	1:D:204:TYR:HB2	2.34	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:182:CYS:HB2	1:E:208:VAL:HB	1.95	0.47
1:E:56:ARG:HH11	1:E:99:LEU:CD2	2.98	0.47
1:F:283:VAL:HB	1:F:317:GLU:HB3	2.21	0.47
1:F:329:GLN:NE2	1:F:330:GLN:HG2	2.30	0.47
1:F:777:LEU:HD11	1:G:783:LYS:CB	2.42	0.47
1:G:113:GLN:OE1	1:G:149:GLY:HA2	2.13	0.47
1:G:183:PHE:HE2	1:G:188:LYS:HA	2.11	0.47
1:G:267:VAL:O	1:G:268:LEU:HB2	2.29	0.47
1:G:533:ASP:OD1	1:G:588:PHE:N	2.85	0.47
1:G:654:LEU:HD12	1:H:662:ILE:HD12	2.37	0.47
1:G:760:GLU:O	1:G:764:LYS:HG2	2.15	0.47
1:H:277:GLY:HA2	1:H:305:GLU:N	2.29	0.47
1:H:19:LEU:HA	1:H:32:PRO:HB2	1.95	0.47
1:I:354:GLY:HA3	1:J:328:GLU:HG3	5.44	0.47
1:I:419:LEU:CD1	1:I:494:GLN:NE2	2.76	0.47
1:I:654:LEU:HD11	1:J:662:ILE:HG21	2.30	0.47
1:J:235:PHE:HE1	1:J:237:ASP:HA	1.80	0.47
1:J:273:ILE:HG12	1:J:310:LEU:HG	2.13	0.47
1:J:327:SER:HB2	1:J:331:GLY:HA2	2.92	0.47
1:J:747:LYS:HA	1:J:747:LYS:HD3	1.73	0.47
1:I:49:ARG:HH12	1:J:8:ILE:HD13	1.79	0.47
1:K:16:ILE:HG12	1:K:34:THR:HG21	2.55	0.47
1:K:2:ALA:HB3	1:K:46:ALA:O	2.15	0.47
1:L:481:VAL:HG11	1:L:487:VAL:HG11	1.95	0.47
1:L:579:VAL:CG1	1:L:599:ILE:HD12	2.44	0.47
1:L:98:PRO:C	1:L:99:LEU:HD12	2.34	0.47
1:M:115:VAL:O	1:M:118:ASN:CB	2.62	0.47
1:M:654:LEU:HD13	1:N:662:ILE:HD13	1.97	0.47
1:O:8:ILE:HA	1:O:40:ASN:HD22	1.80	0.47
1:Q:138:MET:SD	1:R:148:PRO:HG2	2.55	0.47
1:Q:204:TYR:O	1:Q:206:PRO:HD3	2.14	0.47
1:Q:259:HIS:HD1	1:Q:266:GLU:HG2	1.78	0.47
1:Q:465:ASN:HB3	1:Q:519:GLY:HA3	1.97	0.47
1:R:324:TYR:O	1:R:365:TYR:N	2.40	0.47
1:R:8:ILE:HG22	1:R:40:ASN:HD21	1.77	0.47
1:S:9:ARG:CZ	1:S:15:TYR:HB3	2.45	0.47
1:T:408:LEU:H	1:T:408:LEU:HD12	1.79	0.47
1:T:547:PHE:CD2	1:T:561:LEU:HD23	2.49	0.47
1:U:802:LEU:HD12	1:U:806:THR:HG22	1.96	0.47
1:V:114:VAL:HA	1:V:118:ASN:ND2	2.30	0.47
1:V:46:ALA:N	1:V:47:PRO:HD3	2.29	0.47
1:V:734:ARG:HG2	1:W:742:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:506:LYS:HE2	1:W:524:THR:O	2.14	0.47
1:W:597:ARG:HG3	1:W:600:ARG:HH21	1.79	0.47
1:X:70:GLN:HB3	1:X:104:VAL:H	1.78	0.47
1:X:150:THR:HG23	1:X:151:TYR:N	2.29	0.47
1:X:273:ILE:HG13	1:X:308:PHE:HB3	1.97	0.47
1:Y:197:LEU:HD12	1:Y:199:ARG:CZ	2.44	0.47
1:A:13:TYR:HD1	1:A:13:TYR:N	2.19	0.47
1:A:384:GLN:HG2	1:Z:474:ARG:HH22	286.12	0.47
1:A:535:ALA:HA	1:B:658:VAL:HG21	2.15	0.47
1:A:660:LEU:HA	1:A:663:GLU:CB	2.68	0.47
1:A:728:SER:HA	1:Z:719:THR:HG22	166.65	0.47
1:C:281:TYR:CE1	1:C:321:GLN:HB2	2.49	0.47
1:C:481:VAL:O	1:C:481:VAL:HG13	2.18	0.47
1:D:70:GLN:O	1:D:70:GLN:HG3	2.20	0.47
1:F:272:PRO:HB3	1:F:309:PHE:CE2	2.50	0.47
1:F:273:ILE:HG13	1:F:308:PHE:HB3	1.97	0.47
1:F:586:VAL:HG12	1:F:587:THR:O	2.42	0.47
1:G:155:LYS:HB2	1:G:155:LYS:HZ3	1.95	0.47
1:G:560:LYS:HD2	1:G:630:GLN:O	2.15	0.47
1:H:393:VAL:O	1:I:405:THR:HG21	2.15	0.47
1:H:495:PHE:CG	1:H:514:LEU:HD11	2.50	0.47
1:I:164:GLN:OE1	1:I:205:LEU:HG	3.12	0.47
1:H:690:ARG:NH2	1:I:698:GLU:HG3	2.38	0.47
1:J:139:ALA:CB	1:K:148:PRO:HB2	2.80	0.47
1:J:154:GLN:HG3	1:J:155:LYS:N	2.68	0.47
1:I:338:GLN:OE1	1:J:278:PRO:HB3	3.01	0.47
1:K:112:LEU:O	1:K:150:THR:HB	2.62	0.47
1:K:165:ALA:HB2	1:K:211:GLU:CD	2.35	0.47
1:K:752:ALA:O	1:K:756:GLU:HB2	2.14	0.47
1:L:382:LEU:N	1:L:405:THR:HG22	2.29	0.47
1:L:653:ALA:HB3	1:M:662:ILE:HD13	1.93	0.47
1:M:196:TRP:CE3	1:M:196:TRP:HA	2.63	0.47
1:M:324:TYR:HB2	1:M:365:TYR:O	2.15	0.47
1:M:18:VAL:CG1	1:M:48:VAL:HG22	2.33	0.47
1:M:508:PRO:O	1:M:509:HIS:HD2	1.98	0.47
1:N:124:LYS:O	1:N:156:GLU:HB3	2.15	0.47
1:N:485:GLU:HG2	1:N:486:LEU:H	1.80	0.47
1:O:654:LEU:HD12	1:P:662:ILE:CD1	2.36	0.47
1:P:2:ALA:HB3	1:P:46:ALA:O	2.15	0.47
1:P:796:LYS:HA	1:P:799:THR:CG2	2.42	0.47
1:Q:245:THR:CG2	1:R:219:VAL:HG11	2.41	0.47
1:R:310:LEU:HD21	1:R:316:LEU:HG	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:122:HIS:CG	1:S:159:VAL:HB	2.50	0.47
1:S:529:ILE:HD12	1:S:529:ILE:O	2.15	0.47
1:S:766:ARG:O	1:S:770:LEU:HB2	2.14	0.47
1:T:73:VAL:HG21	1:T:82:ARG:HB2	1.97	0.47
1:T:752:ALA:HA	1:T:755:THR:HG22	1.96	0.47
1:T:60:ILE:HG13	1:T:92:LEU:O	2.14	0.47
1:U:185:ARG:HG3	1:U:206:PRO:HB3	1.97	0.47
1:U:227:LEU:HB2	1:U:251:VAL:HG12	1.96	0.47
1:V:287:PRO:O	1:V:295:GLN:HB2	2.15	0.47
1:W:251:VAL:HG21	1:W:257:GLU:HG2	1.96	0.47
1:W:360:ARG:HG3	1:W:361:GLY:N	2.30	0.47
1:W:60:ILE:H	1:W:60:ILE:CD1	2.27	0.47
1:X:20:ASP:HB2	1:X:49:ARG:HD3	1.96	0.47
1:A:522:PHE:CZ	1:Z:573:LYS:HE3	226.94	0.47
1:A:69:THR:HA	1:A:106:GLU:CB	2.45	0.47
1:A:601:MET:HG2	1:A:622:ALA:CB	2.41	0.47
1:A:654:LEU:HD11	1:B:662:ILE:HG21	2.07	0.47
1:A:709:LEU:HA	1:A:712:MET:HE3	1.96	0.47
1:A:769:GLU:O	1:A:769:GLU:HG2	2.59	0.47
1:B:100:TYR:HD2	1:B:101:PRO:HD3	2.11	0.47
1:B:5:GLU:O	1:B:41:GLU:O	2.56	0.47
1:B:529:ILE:CD1	1:B:537:LEU:HB2	2.45	0.47
1:B:60:ILE:CD1	1:B:60:ILE:H	2.19	0.47
1:C:387:GLY:HA3	1:C:402:ILE:HA	2.11	0.47
1:D:217:ASP:OD1	1:D:257:GLU:O	2.32	0.47
1:D:392:ASP:O	1:D:396:GLY:N	2.40	0.47
1:D:813:ALA:O	1:D:815:PRO:HD3	2.14	0.47
1:E:268:LEU:HD13	1:E:269:GLY:N	2.52	0.47
1:D:340:LEU:HD12	1:E:364:GLU:OE1	2.50	0.47
1:E:36:ILE:HD11	1:E:58:TYR:CE1	2.50	0.47
1:E:705:GLU:O	1:E:709:LEU:HG	2.31	0.47
1:E:811:ALA:C	1:E:813:ALA:H	2.49	0.47
1:E:8:ILE:CD1	1:E:8:ILE:H	2.25	0.47
1:E:93:ALA:C	1:E:95:ASP:H	2.26	0.47
1:G:181:GLU:O	1:G:190:ARG:HD2	4.80	0.47
1:G:682:GLN:O	1:G:683:GLU:C	2.75	0.47
1:H:243:HIS:NE2	1:H:249:TRP:CE2	3.21	0.47
1:H:340:LEU:HD23	1:H:353:ALA:H	1.79	0.47
1:H:36:ILE:HD12	1:H:98:PRO:HB3	1.97	0.47
1:H:664:ILE:O	1:H:668:SER:HB2	2.17	0.47
1:H:83:LEU:HD23	1:H:83:LEU:H	2.28	0.47
1:I:786:GLN:O	1:I:789:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:65:VAL:HG13	1:J:110:THR:HG22	3.16	0.47
1:J:30:VAL:HA	1:J:74:LEU:HD11	2.30	0.47
1:J:285:LEU:HD13	1:J:315:ARG:NH1	3.03	0.47
1:K:243:HIS:NE2	1:K:249:TRP:CD2	2.73	0.47
1:K:806:THR:O	1:K:810:LEU:HB2	2.20	0.47
1:L:127:LEU:HB3	1:M:64:PRO:HD3	1.97	0.47
1:L:288:MET:HE1	1:L:312:PRO:O	5.69	0.47
1:L:340:LEU:HD23	1:L:353:ALA:H	1.82	0.47
1:L:579:VAL:HG13	1:L:599:ILE:CD1	2.45	0.47
1:M:288:MET:CE	1:M:294:ASN:ND2	2.78	0.47
1:M:332:LEU:CD2	1:M:358:LEU:HD11	2.60	0.47
1:M:496:THR:O	1:M:496:THR:CG2	2.63	0.47
1:M:579:VAL:CG1	1:M:599:ILE:HD12	2.45	0.47
1:N:154:GLN:HG3	1:N:155:LYS:N	2.30	0.47
1:N:380:ILE:HG13	1:N:406:TYR:O	2.15	0.47
1:N:452:ARG:NH2	1:N:458:VAL:HG22	2.29	0.47
1:O:568:VAL:HG23	1:O:569:GLY:N	2.30	0.47
1:Q:196:TRP:HA	1:Q:196:TRP:HE3	1.79	0.47
1:Q:523:PHE:CD1	1:Q:545:TRP:NE1	2.82	0.47
1:R:205:LEU:HD22	1:R:211:GLU:HB2	1.96	0.47
1:R:336:ALA:HA	1:R:356:CYS:HB3	1.97	0.47
1:R:481:VAL:O	1:R:481:VAL:HG13	2.14	0.47
1:R:533:ASP:OD1	1:R:588:PHE:N	2.41	0.47
1:S:19:LEU:HA	1:S:32:PRO:HB2	1.97	0.47
1:S:255:ASP:OD2	1:S:257:GLU:HB3	2.14	0.47
1:S:310:LEU:H	1:S:310:LEU:HD12	1.78	0.47
1:T:273:ILE:HD11	1:T:308:PHE:CD2	2.43	0.47
1:T:685:ARG:O	1:T:689:GLU:CB	2.62	0.47
1:U:338:GLN:CB	1:U:339:PRO:CD	2.91	0.47
1:U:408:LEU:HD21	1:U:414:LEU:HD13	1.97	0.47
1:U:69:THR:HG21	1:U:91:ARG:NH2	2.30	0.47
1:V:204:TYR:O	1:V:206:PRO:HD3	2.13	0.47
1:V:519:GLY:O	1:V:521:ASP:N	2.38	0.47
1:W:175:ARG:HB2	1:W:213:LEU:O	2.14	0.47
1:W:529:ILE:HD12	1:W:583:VAL:CG1	2.37	0.47
1:Y:176:LEU:HB2	1:Y:196:TRP:CB	2.42	0.47
1:Y:5:GLU:HG2	1:Y:43:VAL:HG21	1.97	0.47
1:Y:181:GLU:HB3	1:Z:116:LEU:HD13	1.96	0.47
1:A:184:ASP:HB2	1:A:189:GLY:O	2.15	0.47
1:A:469:GLN:HB3	1:A:496:THR:CG2	2.48	0.47
1:B:660:LEU:HA	1:B:663:GLU:HB3	2.14	0.47
1:B:661:ALA:HA	1:B:664:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:183:PHE:HA	1:D:190:ARG:HD3	2.23	0.47
1:D:176:LEU:HD23	1:D:211:GLU:HA	2.00	0.47
1:E:18:VAL:HG23	1:E:33:LYS:O	2.15	0.47
1:E:231:ALA:O	1:E:245:THR:HA	2.66	0.47
1:E:69:THR:O	1:E:88:GLN:HG3	2.15	0.47
1:F:175:ARG:HB2	1:F:213:LEU:H	1.80	0.47
1:F:394:LYS:NZ	1:G:329:GLN:HB2	2.30	0.47
1:G:53:VAL:CG1	1:G:56:ARG:HG3	2.45	0.47
1:G:85:HIS:NE2	1:G:102:GLY:HA3	2.51	0.47
1:H:151:TYR:O	1:H:153:PRO:HD3	2.50	0.47
1:I:328:GLU:HA	1:I:361:GLY:O	2.19	0.47
1:I:529:ILE:HD12	1:I:537:LEU:HB2	1.96	0.47
1:J:340:LEU:HD23	1:J:353:ALA:H	2.30	0.47
1:K:273:ILE:CD1	1:K:310:LEU:HG	2.44	0.47
1:K:579:VAL:HG13	1:K:599:ILE:HD11	1.97	0.47
1:J:727:GLU:HG3	1:K:735:ILE:HD13	4.33	0.47
1:L:120:ALA:HB2	1:L:164:GLN:NE2	2.32	0.47
1:L:755:THR:OG1	1:M:761:ARG:NE	3.20	0.47
1:M:221:LEU:HD13	1:M:255:ASP:O	2.73	0.47
1:M:337:LEU:HD12	1:M:339:PRO:O	2.65	0.47
1:L:799:THR:HG21	1:M:801:ALA:HB1	1.97	0.47
1:N:752:ALA:HA	1:N:755:THR:HG22	1.95	0.47
1:P:217:ASP:OD1	1:P:257:GLU:O	2.31	0.47
1:P:327:SER:O	1:P:328:GLU:HB2	2.15	0.47
1:P:328:GLU:O	1:P:329:GLN:C	2.53	0.47
1:P:808:ARG:O	1:P:812:VAL:HG23	2.15	0.47
1:Q:14:HIS:CG	1:Q:99:LEU:HD22	2.50	0.47
1:R:67:ARG:HH21	1:R:107:LYS:HA	1.79	0.47
1:S:85:HIS:NE2	1:S:102:GLY:HA3	2.29	0.47
1:R:293:LYS:HG3	1:S:223:GLU:HG3	1.97	0.47
1:S:334:LEU:HD23	1:S:357:TRP:O	2.14	0.47
1:T:221:LEU:CD2	1:T:256:THR:CG2	2.92	0.47
1:T:226:ALA:HB3	1:T:270:VAL:CG1	2.44	0.47
1:T:533:ASP:OD1	1:T:588:PHE:N	2.32	0.47
1:U:106:GLU:O	1:U:107:LYS:HD2	2.14	0.47
1:U:473:TYR:CE2	1:V:461:ARG:HG2	2.49	0.47
1:U:60:ILE:N	1:U:60:ILE:HD13	2.30	0.47
1:U:777:LEU:HD11	1:V:783:LYS:CB	2.45	0.47
1:U:573:LYS:HE3	1:V:522:PHE:CZ	2.49	0.47
1:W:109:ILE:HD12	1:W:153:PRO:HB3	1.97	0.47
1:W:113:GLN:O	1:W:114:VAL:HG13	2.14	0.47
1:W:343:GLY:HA2	1:W:348:LYS:HA	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:396:GLY:HA3	1:X:405:THR:HG23	1.97	0.47
1:W:474:ARG:CG	1:W:492:GLU:HB2	2.44	0.47
1:V:589:ASP:HB2	1:W:665:THR:HG21	1.96	0.47
1:X:123:LEU:HD11	1:X:143:TRP:CD1	2.49	0.47
1:Y:196:TRP:HA	1:Y:196:TRP:CE3	2.49	0.47
1:Z:217:ASP:OD1	1:Z:257:GLU:O	2.33	0.47
1:Z:286:ASP:N	1:Z:287:PRO:HD3	2.30	0.47
1:Z:338:GLN:HB2	1:Z:339:PRO:HD3	1.97	0.47
1:A:72:SER:OG	1:A:102:GLY:O	2.34	0.47
1:A:119:THR:HG23	1:A:163:ILE:HG23	1.97	0.47
1:A:384:GLN:OE1	1:M:398:VAL:N	283.61	0.47
1:A:58:TYR:HD1	1:A:99:LEU:CD1	3.02	0.47
1:A:5:GLU:O	1:A:41:GLU:O	2.32	0.47
1:A:735:ILE:HD13	1:M:727:GLU:HG3	169.02	0.47
1:B:725:GLU:O	1:B:728:SER:HB3	2.14	0.47
1:C:251:VAL:HG21	1:C:257:GLU:HG2	1.97	0.47
1:D:16:ILE:HD13	1:D:34:THR:HG21	2.16	0.47
1:D:180:LYS:C	1:D:182:CYS:N	2.71	0.47
1:D:220:ILE:HD12	1:D:252:THR:HA	3.52	0.47
1:D:398:VAL:HG11	1:D:415:TRP:CE3	2.50	0.47
1:C:679:ARG:HG3	1:D:691:GLN:HE22	1.78	0.47
1:D:7:ILE:O	1:D:41:GLU:CG	2.84	0.47
1:E:14:HIS:NE2	1:E:16:ILE:CD1	3.73	0.47
1:E:194:GLU:HG2	1:E:195:GLU:H	1.80	0.47
1:F:176:LEU:O	1:F:196:TRP:HB2	2.14	0.47
1:F:273:ILE:CD1	1:F:308:PHE:HB3	3.45	0.47
1:F:398:VAL:HG11	1:F:415:TRP:CD2	2.49	0.47
1:G:84:ARG:HH22	1:G:101:PRO:HD2	2.07	0.47
1:G:336:ALA:H	1:G:374:VAL:HG23	2.11	0.47
1:H:11:PRO:HB2	1:H:12:PRO:HD3	2.04	0.47
1:H:14:HIS:O	1:H:53:VAL:HB	2.14	0.47
1:H:249:TRP:N	1:H:249:TRP:CD1	2.83	0.47
1:H:534:HIS:CD2	1:I:654:LEU:HG	2.50	0.47
1:I:242:LEU:H	1:I:242:LEU:HD23	1.95	0.47
1:J:130:GLU:H	1:J:137:VAL:HG12	1.73	0.47
1:I:298:GLN:HG3	1:J:305:GLU:CD	2.61	0.47
1:J:394:LYS:HA	1:K:329:GLN:CD	2.61	0.47
1:K:452:ARG:NH1	1:K:452:ARG:HG3	2.29	0.47
1:K:76:ASP:HB3	1:K:80:GLN:O	2.17	0.47
1:L:115:VAL:HB	1:L:148:PRO:HA	2.34	0.47
1:L:239:ARG:NH2	1:L:257:GLU:HG2	2.36	0.47
1:L:273:ILE:CD1	1:L:308:PHE:HB3	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:384:GLN:N	1:L:384:GLN:NE2	2.44	0.47
1:L:533:ASP:O	1:L:534:HIS:HB2	2.41	0.47
1:N:164:GLN:NE2	1:N:204:TYR:HB3	2.30	0.47
1:N:283:VAL:HB	1:N:317:GLU:HB3	1.97	0.47
1:N:587:THR:HG23	1:N:590:ASP:HB2	1.96	0.47
1:N:653:ALA:HB3	1:O:662:ILE:HD13	1.97	0.47
1:O:527:ILE:CD1	1:O:527:ILE:H	2.27	0.47
1:O:687:ARG:HG2	1:O:691:GLN:HE21	1.79	0.47
1:O:719:THR:HG22	1:P:728:SER:HA	1.97	0.47
1:P:802:LEU:HD12	1:P:806:THR:HG22	1.96	0.47
1:Q:109:ILE:HD12	1:Q:153:PRO:HB2	1.96	0.47
1:R:180:LYS:O	1:R:182:CYS:N	2.48	0.47
1:R:474:ARG:CG	1:R:492:GLU:HB2	2.44	0.47
1:R:518:LEU:HA	1:R:547:PHE:HD1	1.79	0.47
1:R:759:LEU:HD21	1:S:765:VAL:HG22	1.97	0.47
1:T:571:ALA:O	1:T:575:ILE:HD13	2.15	0.47
1:V:706:LEU:O	1:V:710:GLU:HG3	2.14	0.47
1:W:13:TYR:CD1	1:W:13:TYR:N	2.83	0.47
1:W:529:ILE:CD1	1:W:583:VAL:HG11	2.39	0.47
1:W:60:ILE:HG22	1:W:66:SER:HA	1.96	0.47
1:Y:183:PHE:HA	1:Y:190:ARG:HD3	1.96	0.47
1:Y:286:ASP:O	1:Y:294:ASN:HB3	2.15	0.47
1:Z:209:PHE:N	1:Z:209:PHE:CD2	2.83	0.47
1:Z:332:LEU:HG	1:Z:360:ARG:HB2	1.97	0.47
1:Z:326:LEU:HD13	1:Z:360:ARG:HA	1.96	0.47
1:A:84:ARG:NH2	1:A:101:PRO:HD2	2.29	0.47
1:A:113:GLN:OE1	1:A:149:GLY:HA2	2.47	0.47
1:A:529:ILE:HD13	1:A:583:VAL:HG11	1.97	0.47
1:B:154:GLN:OE1	1:B:155:LYS:N	3.15	0.47
1:B:19:LEU:C	1:B:49:ARG:HD3	4.82	0.47
1:B:208:VAL:HG23	1:B:209:PHE:HD2	1.80	0.47
1:B:32:PRO:HG2	1:C:11:PRO:HG3	1.96	0.47
1:B:419:LEU:HD23	1:B:421:SER:N	2.48	0.47
1:A:476:LYS:HG3	1:B:485:GLU:HG3	2.45	0.47
1:B:465:ASN:ND2	1:B:520:PRO:HD2	2.56	0.47
1:B:340:LEU:HD12	1:C:364:GLU:OE1	2.15	0.47
1:D:46:ALA:H	1:D:47:PRO:HD3	1.87	0.47
1:E:129:PHE:O	1:E:130:GLU:HG2	2.29	0.47
1:E:522:PHE:CD2	1:E:522:PHE:C	2.88	0.47
1:E:61:VAL:HG13	1:E:65:VAL:CG2	2.44	0.47
1:E:604:PHE:HD2	1:E:626:ALA:HB2	2.02	0.47
1:D:745:LYS:CG	1:E:753:ILE:HD13	2.39	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:230:ARG:HB3	1:F:230:ARG:NH1	2.35	0.47
1:F:342:GLU:HA	1:F:350:SER:HA	2.02	0.47
1:F:384:GLN:H	1:F:384:GLN:NE2	2.13	0.47
1:F:418:GLU:HB2	1:F:454:LYS:HE3	2.62	0.47
1:F:474:ARG:CG	1:F:492:GLU:HB2	2.45	0.47
1:F:766:ARG:HD2	1:G:768:MET:HE3	2.44	0.47
1:G:381:PRO:HA	1:G:405:THR:CB	2.45	0.47
1:H:69:THR:O	1:H:88:GLN:HG3	2.14	0.47
1:I:384:GLN:HE21	1:I:384:GLN:H	1.81	0.47
1:I:417:LYS:O	1:I:418:GLU:HB2	2.28	0.47
1:I:601:MET:CG	1:I:622:ALA:HB2	2.45	0.47
1:I:543:TYR:HD2	1:I:638:VAL:HG13	2.58	0.47
1:I:6:ALA:HB1	1:I:42:ARG:NH2	3.61	0.47
1:J:234:ASN:HD22	1:J:234:ASN:N	2.27	0.47
1:K:251:VAL:HA	1:K:254:GLN:HE22	1.80	0.47
1:L:343:GLY:HA2	1:L:348:LYS:HA	2.62	0.47
1:L:18:VAL:CG1	1:L:48:VAL:HG22	2.34	0.47
1:L:68:ASP:O	1:L:69:THR:HB	2.15	0.47
1:M:276:LEU:N	1:M:280:HIS:HB2	2.30	0.47
1:M:501:SER:CB	1:M:507:ARG:O	3.06	0.47
1:O:402:ILE:HG23	1:O:457:VAL:HG21	1.97	0.47
1:O:54:PRO:CB	1:O:55:PRO:HD3	2.41	0.47
1:P:144:LEU:H	1:P:144:LEU:HD12	1.79	0.47
1:P:239:ARG:HH21	1:P:257:GLU:CG	2.28	0.47
1:P:485:GLU:CG	1:P:486:LEU:H	2.27	0.47
1:Q:741:VAL:O	1:Q:745:LYS:HB2	2.15	0.47
1:R:124:LYS:HG2	1:R:157:VAL:O	2.15	0.47
1:R:137:VAL:HG23	1:R:138:MET:H	1.76	0.47
1:R:334:LEU:O	1:R:374:VAL:N	2.48	0.47
1:S:495:PHE:CG	1:S:514:LEU:HD11	2.50	0.47
1:T:490:ASP:H	1:T:493:GLU:HG2	1.80	0.47
1:T:700:GLU:OE1	1:T:703:ARG:NH1	2.48	0.47
1:U:14:HIS:O	1:U:53:VAL:HB	2.15	0.47
1:U:224:LYS:HA	1:U:272:PRO:HG3	1.97	0.47
1:V:286:ASP:N	1:V:287:PRO:CD	2.78	0.47
1:W:382:LEU:HD13	1:W:387:GLY:HA2	1.97	0.47
1:W:518:LEU:HA	1:W:547:PHE:HD1	1.79	0.47
1:X:229:LEU:HD23	1:X:266:GLU:HA	1.96	0.47
1:X:273:ILE:CD1	1:X:316:LEU:HD11	2.31	0.47
1:X:501:SER:CB	1:X:507:ARG:O	2.63	0.47
1:X:812:VAL:O	1:X:812:VAL:HG12	2.15	0.47
1:Z:185:ARG:HH22	1:Z:207:ALA:HB3	1.80	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:124:LYS:HB3	1:B:142:GLU:HG2	2.71	0.46
1:A:697:SER:HB3	1:B:706:LEU:HB2	1.98	0.46
1:C:281:TYR:CD2	1:C:366:VAL:HG13	2.72	0.46
1:C:336:ALA:H	1:C:374:VAL:HG23	2.13	0.46
1:C:605:GLY:O	1:C:623:ARG:HB2	2.23	0.46
1:C:338:GLN:NE2	1:D:279:ARG:HD3	3.15	0.46
1:E:130:GLU:HB2	1:E:136:LYS:HG2	2.42	0.46
1:E:60:ILE:HD11	1:E:95:ASP:O	2.15	0.46
1:F:180:LYS:O	1:F:182:CYS:N	2.47	0.46
1:F:279:ARG:HA	1:F:323:VAL:HG22	2.17	0.46
1:F:295:GLN:HG2	1:F:298:GLN:NE2	2.31	0.46
1:E:535:ALA:HA	1:F:658:VAL:HG21	2.02	0.46
1:E:697:SER:CA	1:F:706:LEU:HD23	2.44	0.46
1:G:190:ARG:O	1:G:191:VAL:HG23	2.15	0.46
1:G:418:GLU:OE2	1:G:452:ARG:NH1	2.48	0.46
1:G:540:GLN:O	1:G:641:GLN:HG2	2.14	0.46
1:H:163:ILE:H	1:H:163:ILE:CD1	2.52	0.46
1:H:174:LEU:CB	1:H:198:VAL:HB	2.30	0.46
1:H:176:LEU:CD1	1:H:209:PHE:HD1	2.26	0.46
1:H:288:MET:HE2	1:H:294:ASN:ND2	2.53	0.46
1:H:325:VAL:O	1:H:325:VAL:HG13	2.40	0.46
1:H:337:LEU:HD21	1:H:352:GLN:O	2.51	0.46
1:J:217:ASP:OD1	1:J:218:ALA:N	3.14	0.46
1:J:351:HIS:CE1	1:J:357:TRP:CE2	3.03	0.46
1:J:465:ASN:HB3	1:J:519:GLY:HA3	1.95	0.46
1:J:794:LYS:O	1:J:798:MET:HG2	2.37	0.46
1:K:196:TRP:HA	1:K:196:TRP:HE3	1.78	0.46
1:K:327:SER:H	1:K:331:GLY:HA3	2.17	0.46
1:K:481:VAL:O	1:K:481:VAL:HG13	2.13	0.46
1:L:146:GLU:HG3	1:L:204:TYR:CE2	2.50	0.46
1:L:330:GLN:O	1:L:378:GLN:NE2	2.48	0.46
1:L:388:ILE:CD1	1:L:401:VAL:HB	3.11	0.46
1:L:58:TYR:HD1	1:L:99:LEU:HD11	1.79	0.46
1:M:128:ASP:OD1	1:M:131:ASP:HB3	2.15	0.46
1:M:183:PHE:HA	1:M:190:ARG:HD3	1.96	0.46
1:M:400:ALA:HB2	1:M:491:PRO:HD3	2.62	0.46
1:M:758:GLU:O	1:M:761:ARG:HB2	2.15	0.46
1:M:71:SER:HB3	1:M:89:GLU:HG3	2.28	0.46
1:M:90:ILE:CG2	1:M:154:GLN:HB2	2.45	0.46
1:N:115:VAL:HB	1:N:148:PRO:HA	1.97	0.46
1:N:205:LEU:HD22	1:N:211:GLU:HB2	1.96	0.46
1:N:398:VAL:HG11	1:N:415:TRP:CE3	2.49	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:408:LEU:HD12	1:N:408:LEU:H	1.81	0.46
1:O:2:ALA:HB3	1:O:46:ALA:O	2.14	0.46
1:O:20:ASP:HB2	1:O:49:ARG:HD3	1.96	0.46
1:N:49:ARG:CZ	1:O:8:ILE:HD12	2.43	0.46
1:P:128:ASP:HB2	1:P:155:LYS:HB3	1.96	0.46
1:P:165:ALA:H	1:P:204:TYR:HA	1.80	0.46
1:R:111:PRO:HB2	1:R:150:THR:HG21	1.98	0.46
1:R:523:PHE:CE1	1:R:568:VAL:HG12	2.50	0.46
1:S:522:PHE:HD2	1:S:522:PHE:C	2.17	0.46
1:T:564:VAL:HG21	1:T:631:ASN:HD22	1.73	0.46
1:U:575:ILE:HD12	1:U:603:VAL:CG1	2.39	0.46
1:U:579:VAL:HG22	1:U:599:ILE:HG23	1.97	0.46
1:T:573:LYS:HD3	1:U:641:GLN:OE1	2.15	0.46
1:V:606:PHE:HB2	1:V:622:ALA:HA	1.97	0.46
1:U:654:LEU:HD12	1:V:662:ILE:CD1	2.45	0.46
1:W:476:LYS:HG2	1:X:485:GLU:HG3	1.96	0.46
1:X:472:ASP:HA	1:X:493:GLU:CB	2.43	0.46
1:Z:121:LEU:HB2	1:Z:145:PHE:CB	2.45	0.46
1:A:100:TYR:CB	1:A:101:PRO:CD	3.01	0.46
1:A:10:ILE:HG23	1:A:11:PRO:HD2	1.97	0.46
1:A:695:ASP:OD2	1:Z:682:GLN:NE2	178.23	0.46
1:B:279:ARG:O	1:B:323:VAL:N	2.61	0.46
1:B:332:LEU:HG	1:B:360:ARG:HB2	2.17	0.46
1:C:16:ILE:HD13	1:C:34:THR:HG21	4.51	0.46
1:C:252:THR:H	1:C:254:GLN:HE22	1.63	0.46
1:C:328:GLU:OE1	1:C:361:GLY:O	2.34	0.46
1:D:70:GLN:HB3	1:D:104:VAL:H	1.81	0.46
1:D:239:ARG:NH2	1:D:257:GLU:HG2	2.58	0.46
1:E:276:LEU:H	1:E:280:HIS:HB2	2.14	0.46
1:E:379:ALA:HB2	1:E:407:MET:HB3	2.25	0.46
1:E:83:LEU:H	1:E:83:LEU:HD23	1.80	0.46
1:F:175:ARG:HB3	1:F:212:VAL:HB	1.97	0.46
1:F:337:LEU:N	1:F:337:LEU:CD2	2.94	0.46
1:F:382:LEU:N	1:F:405:THR:HG22	2.38	0.46
1:F:390:VAL:CG1	1:F:408:LEU:HD23	2.42	0.46
1:F:415:TRP:CH2	1:F:417:LYS:HB3	2.49	0.46
1:F:532:ALA:HB2	1:F:584:ALA:O	2.47	0.46
1:F:527:ILE:HD11	1:F:539:LEU:HD12	2.23	0.46
1:F:623:ARG:HG2	1:F:624:ASP:H	1.80	0.46
1:G:174:LEU:CB	1:G:198:VAL:HB	2.45	0.46
1:G:208:VAL:HG23	1:G:209:PHE:HD2	1.80	0.46
1:G:234:ASN:ND2	1:G:245:THR:H	2.36	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:795:PHE:O	1:G:799:THR:HG22	3.06	0.46
1:H:230:ARG:HB2	1:H:265:GLU:HB3	1.98	0.46
1:I:245:THR:OG1	1:J:170:GLN:OE1	2.33	0.46
1:I:586:VAL:HG12	1:I:587:THR:O	2.46	0.46
1:I:60:ILE:HD13	1:I:60:ILE:N	3.58	0.46
1:J:88:GLN:O	1:J:154:GLN:NE2	2.79	0.46
1:K:360:ARG:HG3	1:K:361:GLY:N	2.56	0.46
1:K:517:LEU:O	1:K:545:TRP:CH2	2.66	0.46
1:L:116:LEU:O	1:L:118:ASN:N	2.49	0.46
1:L:325:VAL:HG13	1:L:325:VAL:O	2.30	0.46
1:L:389:TYR:CZ	1:L:457:VAL:HA	2.56	0.46
1:L:61:VAL:CG2	1:L:62:ALA:N	2.78	0.46
1:M:161:GLU:CD	1:M:161:GLU:H	2.18	0.46
1:M:547:PHE:CD2	1:M:561:LEU:HD23	2.50	0.46
1:M:802:LEU:HD12	1:M:806:THR:CG2	2.44	0.46
1:N:146:GLU:HA	1:N:146:GLU:OE1	2.15	0.46
1:N:333:LEU:HD23	1:N:376:GLU:HA	1.96	0.46
1:N:332:LEU:HD11	1:N:379:ALA:HB2	1.97	0.46
1:N:394:LYS:HA	1:O:329:GLN:NE2	2.30	0.46
1:O:734:ARG:NH2	1:O:735:ILE:CD1	2.78	0.46
1:P:281:TYR:CE2	1:P:367:PRO:HD2	2.50	0.46
1:P:67:ARG:HG2	1:P:108:ASP:HA	1.97	0.46
1:P:70:GLN:HB3	1:P:104:VAL:N	2.29	0.46
1:Q:71:SER:OG	1:Q:84:ARG:O	2.31	0.46
1:R:221:LEU:HD12	1:R:253:VAL:CG1	2.37	0.46
1:R:530:GLU:HA	1:R:535:ALA:O	2.14	0.46
1:R:540:GLN:HB2	1:R:642:SER:HB3	1.96	0.46
1:R:77:ILE:CG1	1:R:79:GLY:HA3	2.45	0.46
1:T:224:LYS:O	1:T:272:PRO:HD3	2.15	0.46
1:T:380:ILE:HD13	1:T:382:LEU:HD11	1.97	0.46
1:T:580:ARG:HH22	1:U:595:SER:CB	2.16	0.46
1:U:146:GLU:OE1	1:U:146:GLU:HA	2.15	0.46
1:V:340:LEU:HG	1:V:353:ALA:HB2	1.97	0.46
1:Z:533:ASP:O	1:Z:534:HIS:HB2	2.15	0.46
1:A:261:PRO:HD2	1:A:264:TYR:HB2	2.10	0.46
1:B:183:PHE:HD2	1:B:184:ASP:H	2.58	0.46
1:B:20:ASP:HB2	1:B:49:ARG:HD3	1.97	0.46
1:B:252:THR:H	1:B:254:GLN:HE21	1.62	0.46
1:B:273:ILE:HD13	1:B:310:LEU:HD21	1.96	0.46
1:B:418:GLU:HG2	1:B:423:VAL:HG22	1.97	0.46
1:C:110:THR:O	1:C:112:LEU:N	2.49	0.46
1:C:154:GLN:CG	1:C:155:LYS:N	2.75	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:10:ILE:CD1	1:D:10:ILE:H	2.19	0.46
1:D:280:HIS:CD2	1:D:322:ASP:HB3	2.51	0.46
1:D:73:VAL:HG11	1:D:82:ARG:HB2	1.96	0.46
1:E:311:GLN:HB2	1:E:314:GLU:HG3	1.97	0.46
1:F:250:LEU:H	1:F:250:LEU:HD23	2.03	0.46
1:F:571:ALA:O	1:F:575:ILE:HG12	3.57	0.46
1:G:252:THR:H	1:G:254:GLN:NE2	2.15	0.46
1:G:217:ASP:OD1	1:G:257:GLU:O	2.49	0.46
1:G:324:TYR:HE1	1:G:373:VAL:HG21	1.80	0.46
1:F:766:ARG:HG3	1:G:772:TYR:CD1	3.06	0.46
1:H:124:LYS:O	1:H:156:GLU:HA	2.43	0.46
1:H:327:SER:O	1:H:328:GLU:CG	2.63	0.46
1:H:60:ILE:HD12	1:H:60:ILE:H	1.96	0.46
1:I:243:HIS:NE2	1:I:249:TRP:CE2	2.83	0.46
1:I:273:ILE:HD12	1:I:316:LEU:HD21	2.10	0.46
1:J:14:HIS:CB	1:J:56:ARG:CB	3.14	0.46
1:J:16:ILE:HD12	1:J:34:THR:HG21	2.36	0.46
1:J:332:LEU:HG	1:J:360:ARG:HB2	1.97	0.46
1:J:653:ALA:HB3	1:K:662:ILE:HD13	1.96	0.46
1:J:6:ALA:HB1	1:J:42:ARG:HH11	1.80	0.46
1:K:30:VAL:HG22	1:K:74:LEU:CG	2.45	0.46
1:L:220:ILE:C	1:L:222:THR:N	2.70	0.46
1:L:276:LEU:O	1:L:277:GLY:C	2.52	0.46
1:L:591:PHE:O	1:L:595:SER:N	2.51	0.46
1:A:595:SER:HB2	1:M:580:ARG:HH22	207.32	0.46
1:O:235:PHE:CE1	1:O:237:ASP:HA	2.51	0.46
1:P:183:PHE:HE2	1:P:188:LYS:HA	1.80	0.46
1:P:338:GLN:OE1	1:Q:278:PRO:CB	2.62	0.46
1:R:122:HIS:O	1:R:159:VAL:N	2.40	0.46
1:S:249:TRP:N	1:S:249:TRP:CD1	2.83	0.46
1:S:260:VAL:HB	1:S:263:VAL:CA	2.34	0.46
1:S:283:VAL:HG22	1:S:301:VAL:CG1	2.42	0.46
1:S:43:VAL:CG1	1:S:45:PHE:O	2.62	0.46
1:T:70:GLN:HB3	1:T:104:VAL:O	2.16	0.46
1:T:270:VAL:O	1:T:309:PHE:HE2	1.98	0.46
1:T:345:SER:C	1:T:347:GLU:H	2.19	0.46
1:U:128:ASP:OD1	1:U:131:ASP:HB3	2.14	0.46
1:U:130:GLU:N	1:U:137:VAL:HG13	2.29	0.46
1:U:327:SER:H	1:U:331:GLY:HA3	1.80	0.46
1:V:507:ARG:CB	1:V:510:ALA:HB2	2.46	0.46
1:W:239:ARG:HH21	1:W:257:GLU:CG	2.28	0.46
1:X:183:PHE:CE2	1:X:188:LYS:HA	2.43	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:90:ILE:HD12	1:X:90:ILE:O	2.15	0.46
1:Y:19:LEU:HA	1:Y:32:PRO:HB2	1.98	0.46
1:X:759:LEU:HD21	1:Y:765:VAL:HG22	1.96	0.46
1:Z:124:LYS:HG2	1:Z:157:VAL:O	2.15	0.46
1:Z:220:ILE:C	1:Z:222:THR:H	2.19	0.46
1:A:185:ARG:HG3	1:A:206:PRO:HB3	2.60	0.46
1:A:360:ARG:CG	1:A:361:GLY:N	2.84	0.46
1:A:663:GLU:O	1:A:666:THR:HG22	2.15	0.46
1:B:106:GLU:O	1:B:107:LYS:HD2	2.15	0.46
1:C:288:MET:HE1	1:C:294:ASN:ND2	2.31	0.46
1:D:36:ILE:HD11	1:D:58:TYR:CE1	2.51	0.46
1:D:490:ASP:CG	1:D:491:PRO:HD2	2.43	0.46
1:D:623:ARG:HG2	1:D:624:ASP:H	1.84	0.46
1:E:130:GLU:HB2	1:E:136:LYS:CG	2.44	0.46
1:E:90:ILE:CG2	1:E:154:GLN:HB2	2.45	0.46
1:E:338:GLN:CB	1:E:339:PRO:CD	2.90	0.46
1:E:382:LEU:H	1:E:405:THR:HA	1.99	0.46
1:F:15:TYR:CE2	1:F:17:HIS:HB3	2.51	0.46
1:G:121:LEU:HB2	1:G:145:PHE:CB	2.44	0.46
1:G:68:ASP:O	1:G:69:THR:HB	2.62	0.46
1:H:38:GLN:HG2	1:H:38:GLN:H	1.73	0.46
1:H:46:ALA:H	1:H:47:PRO:HD3	1.81	0.46
1:H:551:ASN:HB3	1:H:554:ASP:HB3	2.75	0.46
1:I:177:ARG:HB3	1:I:210:GLU:HB3	2.60	0.46
1:I:267:VAL:O	1:I:268:LEU:HB2	2.20	0.46
1:I:518:LEU:HA	1:I:547:PHE:HD1	1.81	0.46
1:H:693:ILE:HD11	1:I:703:ARG:HH21	2.40	0.46
1:J:63:ASN:O	1:J:111:PRO:HG3	2.15	0.46
1:J:36:ILE:HG21	1:J:99:LEU:H	2.10	0.46
1:J:505:PRO:O	1:J:506:LYS:HB2	2.15	0.46
1:J:729:ARG:HH11	1:J:729:ARG:HB2	1.79	0.46
1:J:808:ARG:O	1:J:812:VAL:HG23	2.18	0.46
1:K:152:ILE:HG12	1:K:154:GLN:HB3	1.97	0.46
1:K:288:MET:HB3	1:K:294:ASN:HA	2.22	0.46
1:K:291:ASP:C	1:K:293:LYS:N	2.68	0.46
1:K:51:VAL:O	1:K:53:VAL:HG23	2.15	0.46
1:L:387:GLY:CA	1:L:402:ILE:HG22	2.55	0.46
1:M:69:THR:HA	1:M:106:GLU:HB3	1.97	0.46
1:M:599:ILE:C	1:M:601:MET:H	2.19	0.46
1:P:205:LEU:HD22	1:P:211:GLU:HB2	1.98	0.46
1:P:20:ASP:HB2	1:P:49:ARG:HD3	1.98	0.46
1:P:390:VAL:HG12	1:P:408:LEU:HD23	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:527:ILE:HD13	1:P:539:LEU:O	2.16	0.46
1:P:58:TYR:HD1	1:P:99:LEU:HD12	1.80	0.46
1:Q:623:ARG:HG3	1:Q:624:ASP:H	1.80	0.46
1:R:330:GLN:OE1	1:R:360:ARG:HD3	2.14	0.46
1:R:495:PHE:HB3	1:R:514:LEU:HD11	1.97	0.46
1:S:339:PRO:HD2	1:S:370:LYS:HB3	1.98	0.46
1:S:62:ALA:O	1:S:93:ALA:HB2	2.15	0.46
1:T:144:LEU:HD21	1:T:185:ARG:NH1	2.30	0.46
1:T:311:GLN:HB3	1:T:312:PRO:HD2	1.97	0.46
1:U:123:LEU:HD11	1:U:143:TRP:CD1	2.50	0.46
1:U:194:GLU:HG2	1:U:195:GLU:N	2.28	0.46
1:U:426:LEU:C	1:U:428:ASN:H	2.18	0.46
1:V:206:PRO:HB2	1:V:209:PHE:CD2	2.50	0.46
1:V:221:LEU:HD13	1:V:255:ASP:O	2.16	0.46
1:V:341:GLU:HB2	1:V:344:GLU:HB2	1.97	0.46
1:V:16:ILE:HA	1:V:34:THR:OG1	2.16	0.46
1:V:662:ILE:O	1:V:666:THR:HB	2.15	0.46
1:W:2:ALA:HB3	1:W:46:ALA:O	2.16	0.46
1:W:472:ASP:HA	1:W:493:GLU:CB	2.42	0.46
1:W:399:ARG:HA	1:W:491:PRO:HG3	1.98	0.46
1:X:332:LEU:HD21	1:X:407:MET:CB	2.45	0.46
1:Y:332:LEU:HG	1:Y:360:ARG:CB	2.45	0.46
1:Y:540:GLN:O	1:Y:641:GLN:HG2	2.15	0.46
1:Y:60:ILE:HD11	1:Y:95:ASP:O	2.15	0.46
1:Z:123:LEU:HG	1:Z:143:TRP:HB2	1.97	0.46
1:Y:589:ASP:HB2	1:Z:665:THR:HG21	1.96	0.46
1:A:134:GLY:O	1:A:135:ASP:CB	2.57	0.46
1:A:14:HIS:CB	1:A:56:ARG:HB2	2.51	0.46
1:A:384:GLN:N	1:A:384:GLN:HE21	2.12	0.46
1:B:36:ILE:O	1:B:37:ARG:HG3	2.17	0.46
1:A:396:GLY:HA3	1:B:405:THR:HG23	1.96	0.46
1:C:276:LEU:N	1:C:280:HIS:HB2	2.30	0.46
1:C:279:ARG:O	1:C:323:VAL:N	2.40	0.46
1:C:459:SER:HB2	1:C:488:THR:HG22	2.05	0.46
1:D:183:PHE:HE2	1:D:188:LYS:O	2.13	0.46
1:D:529:ILE:HG22	1:D:580:ARG:HB2	1.97	0.46
1:D:338:GLN:NE2	1:E:279:ARG:HD3	2.31	0.46
1:E:394:LYS:HG2	1:F:329:GLN:CG	2.43	0.46
1:E:3:THR:CG2	1:E:50:MET:HE2	2.95	0.46
1:E:61:VAL:HG22	1:E:62:ALA:N	3.49	0.46
1:G:130:GLU:HB2	1:G:136:LYS:HA	1.97	0.46
1:G:654:LEU:O	1:G:657:SER:HB3	2.65	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:10:ILE:HG22	1:H:12:PRO:HD2	1.98	0.46
1:H:221:LEU:CD2	1:H:256:THR:CG2	3.05	0.46
1:H:273:ILE:HD13	1:H:316:LEU:HD11	1.97	0.46
1:H:341:GLU:HG2	1:H:370:LYS:HD3	1.97	0.46
1:H:481:VAL:HG13	1:H:481:VAL:O	2.16	0.46
1:H:524:THR:HG22	1:H:542:ALA:HB2	2.71	0.46
1:I:164:GLN:CD	1:I:204:TYR:HB2	2.36	0.46
1:J:176:LEU:HD23	1:J:211:GLU:HA	1.97	0.46
1:J:501:SER:HA	1:J:507:ARG:O	2.27	0.46
1:J:568:VAL:HG23	1:J:569:GLY:N	2.30	0.46
1:J:655:GLN:HA	1:J:658:VAL:HG12	1.96	0.46
1:I:759:LEU:HD13	1:J:768:MET:HG3	1.98	0.46
1:K:234:ASN:H	1:K:234:ASN:ND2	2.12	0.46
1:L:164:GLN:NE2	1:L:204:TYR:CB	2.88	0.46
1:L:22:ASN:ND2	1:M:39:ASP:HB3	2.31	0.46
1:L:335:LYS:NZ	1:L:335:LYS:CB	2.87	0.46
1:L:341:GLU:O	1:L:341:GLU:OE1	2.42	0.46
1:L:389:TYR:HB2	1:L:415:TRP:O	2.15	0.46
1:L:564:VAL:HG23	1:L:564:VAL:O	2.16	0.46
1:L:601:MET:CE	1:L:606:PHE:HB3	2.46	0.46
1:L:661:ALA:O	1:L:665:THR:HG23	2.15	0.46
1:M:288:MET:HE2	1:M:294:ASN:ND2	2.31	0.46
1:M:327:SER:CA	1:M:331:GLY:HA3	2.45	0.46
1:M:338:GLN:CD	1:N:279:ARG:HB3	2.36	0.46
1:M:529:ILE:CD1	1:M:537:LEU:HB2	3.90	0.46
1:M:697:SER:CA	1:N:706:LEU:HD23	2.42	0.46
1:O:13:TYR:HD1	1:O:13:TYR:N	2.13	0.46
1:O:55:PRO:O	1:O:56:ARG:HG2	2.15	0.46
1:P:189:GLY:O	1:P:190:ARG:HB3	2.14	0.46
1:Q:217:ASP:OD1	1:Q:257:GLU:O	2.34	0.46
1:R:167:VAL:HG22	1:R:201:VAL:HA	1.97	0.46
1:R:288:MET:HE2	1:R:294:ASN:ND2	2.30	0.46
1:S:387:GLY:HA3	1:S:402:ILE:HG22	1.97	0.46
1:S:600:ARG:O	1:S:604:PHE:HD1	1.99	0.46
1:S:603:VAL:HG21	1:S:638:VAL:HG21	1.98	0.46
1:T:251:VAL:HA	1:T:254:GLN:NE2	2.30	0.46
1:U:341:GLU:HG2	1:U:370:LYS:HD3	1.98	0.46
1:U:769:GLU:O	1:U:769:GLU:HG2	2.15	0.46
1:U:811:ALA:C	1:U:813:ALA:H	2.18	0.46
1:V:276:LEU:H	1:V:280:HIS:HB2	1.80	0.46
1:V:399:ARG:HA	1:V:491:PRO:HG3	1.96	0.46
1:V:61:VAL:HG13	1:V:65:VAL:HG23	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:698:GLU:HA	1:V:698:GLU:OE2	2.15	0.46
1:U:759:LEU:HD11	1:V:764:LYS:HB3	1.98	0.46
1:W:407:MET:SD	1:W:407:MET:N	2.86	0.46
1:W:557:GLU:O	1:W:560:LYS:HB2	2.15	0.46
1:X:87:ASP:CG	1:X:88:GLN:H	2.19	0.46
1:Y:260:VAL:N	1:Y:261:PRO:HD3	2.30	0.46
1:Z:227:LEU:HB2	1:Z:251:VAL:CG1	2.45	0.46
1:A:39:ASP:HB3	1:Z:22:ASN:ND2	310.32	0.46
1:A:537:LEU:HD21	1:A:588:PHE:HE1	1.80	0.46
1:A:595:SER:CB	1:Z:580:ARG:HH22	207.45	0.46
1:A:734:ARG:HG2	1:B:742:LEU:HD12	2.27	0.46
1:B:165:ALA:O	1:B:203:ALA:O	2.33	0.46
1:B:70:GLN:HB3	1:B:104:VAL:H	1.79	0.46
1:C:244:ARG:HB2	1:C:247:GLU:OE1	2.15	0.46
1:C:693:ILE:HD11	1:D:703:ARG:NH2	2.30	0.46
1:D:182:CYS:SG	1:D:208:VAL:HB	2.56	0.46
1:D:523:PHE:CD1	1:D:568:VAL:HG12	2.72	0.46
1:E:517:LEU:O	1:E:545:TRP:HH2	1.99	0.46
1:F:116:LEU:CB	1:F:117:PRO:HD2	2.37	0.46
1:F:174:LEU:HB2	1:F:198:VAL:HB	1.96	0.46
1:F:283:VAL:HG22	1:F:301:VAL:HG12	1.98	0.46
1:F:627:VAL:HG13	1:F:634:VAL:HG22	1.96	0.46
1:G:230:ARG:HD3	1:G:248:GLU:HG2	1.98	0.46
1:G:416:GLU:HB2	1:G:454:LYS:HB3	2.01	0.46
1:G:709:LEU:HA	1:G:712:MET:HE3	2.50	0.46
1:H:501:SER:HB3	1:H:508:PRO:HA	1.97	0.46
1:H:527:ILE:HD11	1:H:539:LEU:HG	3.08	0.46
1:J:270:VAL:O	1:J:309:PHE:HE2	1.99	0.46
1:I:396:GLY:HA3	1:J:405:THR:HG23	1.98	0.46
1:K:119:THR:HG23	1:K:163:ILE:HG23	1.98	0.46
1:K:539:LEU:HD22	1:K:643:VAL:HG22	2.17	0.46
1:K:762:VAL:O	1:K:766:ARG:HB2	2.24	0.46
1:L:174:LEU:HB2	1:L:198:VAL:HB	1.97	0.46
1:L:206:PRO:HD2	1:L:209:PHE:CD1	2.49	0.46
1:L:262:ASP:HB3	1:L:264:TYR:CZ	2.62	0.46
1:L:296:LEU:HD13	1:L:296:LEU:H	1.83	0.46
1:L:326:LEU:O	1:L:328:GLU:N	2.48	0.46
1:L:419:LEU:CG	1:L:420:PRO:HD2	2.43	0.46
1:M:176:LEU:O	1:M:196:TRP:HB2	2.15	0.46
1:M:36:ILE:CD1	1:M:58:TYR:HE1	2.28	0.46
1:N:287:PRO:HG3	1:N:300:ARG:HB2	1.96	0.46
1:O:221:LEU:CD2	1:O:256:THR:HG21	2.33	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:733:ALA:HA	1:O:736:GLU:HB2	1.98	0.46
1:P:281:TYR:CD1	1:P:281:TYR:C	2.88	0.46
1:P:273:ILE:CD1	1:P:308:PHE:HB3	2.46	0.46
1:P:352:GLN:O	1:P:353:ALA:C	2.54	0.46
1:P:36:ILE:HG21	1:P:99:LEU:HB2	1.96	0.46
1:Q:146:GLU:HA	1:Q:146:GLU:OE1	2.16	0.46
1:Q:175:ARG:HA	1:Q:196:TRP:O	2.15	0.46
1:S:115:VAL:HB	1:S:148:PRO:CA	2.35	0.46
1:R:245:THR:OG1	1:S:170:GLN:OE1	2.34	0.46
1:S:221:LEU:HD12	1:S:253:VAL:HG13	1.97	0.46
1:T:228:HIS:NE2	1:T:312:PRO:HB3	2.31	0.46
1:T:260:VAL:O	1:T:262:ASP:N	2.49	0.46
1:V:692:LYS:HG2	1:V:696:GLN:NE2	2.27	0.46
1:W:13:TYR:HD1	1:W:13:TYR:N	2.13	0.46
1:X:67:ARG:NH2	1:X:107:LYS:HA	2.27	0.46
1:X:180:LYS:O	1:X:182:CYS:N	2.49	0.46
1:X:262:ASP:HB3	1:X:264:TYR:CE1	2.50	0.46
1:Y:179:ARG:NH2	1:Y:209:PHE:O	2.48	0.46
1:Y:288:MET:HB3	1:Y:294:ASN:HA	1.98	0.46
1:X:745:LYS:HG3	1:Y:753:ILE:HD13	1.97	0.46
1:Y:802:LEU:HD12	1:Y:806:THR:HG22	1.97	0.46
1:A:384:GLN:CD	1:Z:398:VAL:H	284.00	0.46
1:Z:469:GLN:HB3	1:Z:496:THR:HG21	1.97	0.46
1:A:175:ARG:HG3	1:A:215:LEU:CD2	2.44	0.46
1:A:647:ASP:HB3	1:A:650:THR:OG1	2.83	0.46
1:A:717:GLU:O	1:A:721:ASN:HB2	2.19	0.46
1:B:122:HIS:HB3	1:B:160:VAL:H	2.05	0.46
1:B:235:PHE:CE1	1:B:264:TYR:CE1	3.03	0.46
1:B:495:PHE:CG	1:B:514:LEU:HD11	2.50	0.46
1:C:154:GLN:CG	1:C:155:LYS:HG3	2.44	0.46
1:C:452:ARG:HG3	1:C:452:ARG:NH1	2.31	0.46
1:C:596:ALA:O	1:C:600:ARG:HB2	2.42	0.46
1:C:68:ASP:O	1:C:69:THR:HB	2.54	0.46
1:D:371:VAL:HG12	1:D:372:GLU:N	2.31	0.46
1:D:579:VAL:O	1:D:583:VAL:HG23	2.15	0.46
1:E:496:THR:O	1:E:496:THR:CG2	2.78	0.46
1:E:596:ALA:O	1:E:600:ARG:HB2	2.16	0.46
1:F:260:VAL:HB	1:F:263:VAL:CA	2.39	0.46
1:F:380:ILE:HD12	1:F:406:TYR:O	2.36	0.46
1:F:692:LYS:O	1:F:696:GLN:HG3	2.50	0.46
1:G:285:LEU:HB2	1:G:315:ARG:HG2	1.98	0.46
1:G:332:LEU:CD2	1:G:407:MET:HB2	2.58	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:244:ARG:HD3	1:H:221:LEU:HD21	1.98	0.46
1:H:221:LEU:CD2	1:H:256:THR:HG21	2.59	0.46
1:H:286:ASP:N	1:H:287:PRO:HD3	2.37	0.46
1:H:347:GLU:O	1:H:349:VAL:HG23	2.16	0.46
1:H:382:LEU:HD22	1:H:387:GLY:HA2	1.98	0.46
1:H:418:GLU:OE2	1:H:452:ARG:NH1	2.49	0.46
1:I:239:ARG:HH21	1:I:257:GLU:CG	2.39	0.46
1:J:10:ILE:H	1:J:10:ILE:CD1	2.24	0.46
1:J:120:ALA:HB2	1:J:164:GLN:HE21	2.27	0.46
1:J:164:GLN:NE2	1:J:204:TYR:HB2	2.97	0.46
1:J:185:ARG:HG3	1:J:206:PRO:HB3	1.98	0.46
1:J:206:PRO:HB2	1:J:209:PHE:CD2	2.51	0.46
1:J:276:LEU:O	1:J:277:GLY:C	2.57	0.46
1:J:294:ASN:ND2	1:J:313:GLY:CA	2.69	0.46
1:J:324:TYR:CE1	1:J:373:VAL:HG21	2.97	0.46
1:J:472:ASP:CA	1:J:493:GLU:HB3	2.49	0.46
1:K:36:ILE:O	1:K:36:ILE:HG13	2.15	0.46
1:J:476:LYS:HE2	1:K:485:GLU:OE1	2.30	0.46
1:J:473:TYR:HD2	1:K:486:LEU:HB3	1.80	0.46
1:K:533:ASP:OD1	1:K:588:PHE:N	2.49	0.46
1:L:175:ARG:HA	1:L:196:TRP:O	2.26	0.46
1:L:769:GLU:O	1:L:769:GLU:HG2	2.16	0.46
1:M:120:ALA:O	1:M:161:GLU:HA	2.24	0.46
1:M:221:LEU:HA	1:M:253:VAL:HG13	2.11	0.46
1:L:49:ARG:NH2	1:M:8:ILE:CD1	2.79	0.46
1:N:196:TRP:CE3	1:N:196:TRP:HA	2.50	0.46
1:O:13:TYR:CD1	1:O:13:TYR:N	2.82	0.46
1:O:213:LEU:HD13	1:O:214:ASP:H	1.80	0.46
1:O:235:PHE:CE1	1:O:264:TYR:CE1	3.04	0.46
1:O:276:LEU:H	1:O:280:HIS:HB2	1.79	0.46
1:O:481:VAL:O	1:O:481:VAL:HG13	2.14	0.46
1:O:63:ASN:N	1:O:64:PRO:HD2	2.31	0.46
1:P:16:ILE:HB	1:P:51:VAL:HB	1.97	0.46
1:P:235:PHE:HE1	1:P:237:ASP:HA	1.80	0.46
1:P:531:THR:HG21	1:P:588:PHE:HA	1.97	0.46
1:P:599:ILE:O	1:P:601:MET:N	2.48	0.46
1:P:63:ASN:N	1:P:64:PRO:CD	2.76	0.46
1:Q:46:ALA:H	1:Q:47:PRO:HD3	1.81	0.46
1:R:452:ARG:HD2	1:R:453:ASN:N	2.31	0.46
1:T:144:LEU:HD12	1:T:144:LEU:H	1.81	0.46
1:T:496:THR:O	1:T:496:THR:CG2	2.63	0.46
1:U:603:VAL:HG21	1:U:638:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:150:THR:HG23	1:W:151:TYR:N	2.31	0.46
1:W:252:THR:O	1:W:253:VAL:C	2.54	0.46
1:W:496:THR:O	1:W:496:THR:HG23	2.16	0.46
1:W:501:SER:HA	1:W:507:ARG:O	2.16	0.46
1:Y:220:ILE:HD11	1:Y:256:THR:HA	1.96	0.46
1:Y:379:ALA:HB2	1:Y:407:MET:HB3	1.98	0.46
1:Z:115:VAL:O	1:Z:118:ASN:HB3	2.15	0.46
1:Z:206:PRO:HB2	1:Z:209:PHE:CD2	2.51	0.46
1:A:249:TRP:N	1:A:249:TRP:CD1	2.87	0.46
1:A:227:LEU:HB2	1:A:251:VAL:HG13	2.16	0.46
1:A:777:LEU:HD11	1:B:783:LYS:CB	2.52	0.46
1:B:260:VAL:CB	1:B:263:VAL:HA	2.58	0.46
1:C:10:ILE:HG23	1:C:11:PRO:HD2	2.20	0.46
1:C:3:THR:HG22	1:C:50:MET:HE1	2.03	0.46
1:D:333:LEU:HB2	1:D:359:ILE:CD1	2.88	0.46
1:D:462:VAL:HB	1:D:485:GLU:O	2.16	0.46
1:F:113:GLN:OE1	1:F:149:GLY:HA2	2.16	0.46
1:F:213:LEU:HD13	1:F:214:ASP:H	2.36	0.46
1:F:276:LEU:N	1:F:280:HIS:HB2	2.30	0.46
1:G:65:VAL:HG12	1:G:110:THR:HG22	1.98	0.46
1:G:5:GLU:HA	1:G:7:ILE:HD11	3.43	0.46
1:H:163:ILE:HD12	1:H:163:ILE:N	2.58	0.46
1:H:597:ARG:NH1	1:H:597:ARG:HB3	2.30	0.46
1:J:226:ALA:O	1:J:270:VAL:N	2.61	0.46
1:J:327:SER:N	1:J:331:GLY:HA3	2.65	0.46
1:J:20:ASP:HB2	1:J:49:ARG:HD3	2.32	0.46
1:J:600:ARG:HB3	1:J:600:ARG:HE	1.64	0.46
1:K:123:LEU:HD21	1:K:143:TRP:HB2	2.37	0.46
1:K:336:ALA:O	1:K:371:VAL:HG13	2.42	0.46
1:K:6:ALA:O	1:K:7:ILE:HD13	2.16	0.46
1:K:73:VAL:O	1:K:84:ARG:HD2	3.41	0.46
1:L:123:LEU:CG	1:L:143:TRP:HB2	2.43	0.46
1:L:500:LEU:HA	1:L:566:ASP:OD1	2.42	0.46
1:L:69:THR:O	1:L:89:GLU:N	2.42	0.46
1:L:701:LYS:HG3	1:M:709:LEU:HD13	2.01	0.46
1:L:806:THR:O	1:L:810:LEU:HB2	2.16	0.46
1:M:119:THR:HG23	1:M:163:ILE:HG23	1.98	0.46
1:M:336:ALA:H	1:M:374:VAL:HG23	1.94	0.46
1:M:485:GLU:HG2	1:M:486:LEU:N	2.30	0.46
1:M:540:GLN:O	1:M:641:GLN:HG2	2.61	0.46
1:M:747:LYS:HA	1:M:747:LYS:HD3	1.66	0.46
1:M:752:ALA:O	1:M:756:GLU:HB2	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:70:GLN:O	1:N:70:GLN:HG3	2.16	0.46
1:N:6:ALA:O	1:N:7:ILE:HD13	2.16	0.46
1:O:469:GLN:HB3	1:O:496:THR:CG2	2.44	0.46
1:O:579:VAL:CG2	1:O:599:ILE:HD12	2.44	0.46
1:O:738:GLU:N	1:P:746:LEU:HD13	2.30	0.46
1:P:14:HIS:HB2	1:P:56:ARG:CB	2.43	0.46
1:P:229:LEU:O	1:P:248:GLU:HA	2.15	0.46
1:P:260:VAL:CA	1:P:264:TYR:H	2.22	0.46
1:Q:221:LEU:HA	1:Q:253:VAL:HG22	1.98	0.46
1:Q:339:PRO:HD2	1:Q:370:LYS:HB3	1.98	0.46
1:Q:8:ILE:HG22	1:Q:40:ASN:ND2	2.31	0.46
1:U:324:TYR:HE1	1:U:373:VAL:HG21	1.80	0.46
1:U:601:MET:HG2	1:U:622:ALA:CB	2.45	0.46
1:V:162:ILE:HD12	1:V:205:LEU:HD12	1.98	0.46
1:V:310:LEU:HD21	1:V:316:LEU:HG	1.98	0.46
1:V:396:GLY:CA	1:W:405:THR:HG23	2.46	0.46
1:V:43:VAL:HG12	1:V:45:PHE:O	2.15	0.46
1:V:507:ARG:HB3	1:V:510:ALA:HB2	1.98	0.46
1:W:235:PHE:CE2	1:W:243:HIS:HB3	2.51	0.46
1:W:60:ILE:HG13	1:W:92:LEU:O	2.15	0.46
1:X:175:ARG:HB2	1:X:213:LEU:O	2.15	0.46
1:X:311:GLN:CB	1:X:314:GLU:HG3	2.45	0.46
1:X:54:PRO:HB2	1:X:55:PRO:CD	2.28	0.46
1:Z:245:THR:C	1:Z:247:GLU:H	2.18	0.46
1:A:229:LEU:O	1:A:248:GLU:HA	2.41	0.46
1:A:232:LEU:H	1:A:264:TYR:HD2	1.63	0.46
1:A:421:SER:O	1:A:423:VAL:N	2.69	0.46
1:B:550:LYS:HG3	1:B:551:ASN:N	2.75	0.46
1:B:600:ARG:HH12	1:B:622:ALA:HB3	1.81	0.46
1:C:20:ASP:HB2	1:C:49:ARG:HD3	1.97	0.46
1:C:551:ASN:HB3	1:C:554:ASP:HB3	2.04	0.46
1:D:564:VAL:CG2	1:D:631:ASN:ND2	2.86	0.46
1:D:6:ALA:HA	1:D:41:GLU:O	2.37	0.46
1:D:77:ILE:HG13	1:D:80:GLN:CA	2.45	0.46
1:F:116:LEU:O	1:F:118:ASN:N	2.70	0.46
1:F:127:LEU:HB3	1:G:64:PRO:HD3	2.13	0.46
1:F:71:SER:OG	1:F:87:ASP:HB3	2.16	0.46
1:G:286:ASP:N	1:G:287:PRO:CD	2.78	0.46
1:G:363:LEU:HD13	1:G:364:GLU:H	1.79	0.46
1:G:394:LYS:HA	1:H:329:GLN:NE2	2.41	0.46
1:H:3:THR:HG22	1:H:50:MET:CE	2.69	0.46
1:H:540:GLN:O	1:H:641:GLN:HG2	2.26	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:781:VAL:HG21	1:H:786:GLN:OE1	2.16	0.46
1:I:175:ARG:HB3	1:I:212:VAL:HB	1.97	0.46
1:I:547:PHE:CD2	1:I:561:LEU:HD23	2.84	0.46
1:J:123:LEU:CD2	1:J:143:TRP:HB2	3.22	0.46
1:J:165:ALA:HB3	1:J:174:LEU:HD11	1.98	0.46
1:K:245:THR:HG22	1:K:246:GLY:N	2.31	0.46
1:K:330:GLN:O	1:K:378:GLN:NE2	2.48	0.46
1:K:465:ASN:HB3	1:K:519:GLY:HA3	2.30	0.46
1:K:64:PRO:HA	1:K:111:PRO:HD2	1.98	0.46
1:L:568:VAL:HG23	1:L:569:GLY:H	1.95	0.46
1:M:167:VAL:CG2	1:M:200:SER:O	2.64	0.46
1:M:235:PHE:CE1	1:M:264:TYR:CE1	3.18	0.46
1:M:338:GLN:CB	1:M:339:PRO:CD	3.25	0.46
1:N:83:LEU:HD12	1:N:87:ASP:HB2	1.97	0.46
1:O:594:ASN:CB	1:O:598:ILE:HD13	2.46	0.46
1:P:36:ILE:O	1:P:37:ARG:CG	2.64	0.46
1:P:417:LYS:HE3	1:P:491:PRO:O	2.15	0.46
1:P:45:PHE:HB2	1:P:48:VAL:HG23	1.96	0.46
1:Q:229:LEU:O	1:Q:248:GLU:HA	2.16	0.46
1:Q:363:LEU:HD22	1:Q:363:LEU:HA	1.84	0.46
1:R:115:VAL:HB	1:R:148:PRO:HA	1.98	0.46
1:R:331:GLY:O	1:R:360:ARG:HB2	2.16	0.46
1:S:221:LEU:HD13	1:S:255:ASP:O	2.15	0.46
1:S:58:TYR:HD1	1:S:99:LEU:HD12	1.81	0.46
1:T:15:TYR:CE2	1:T:17:HIS:HB3	2.50	0.46
1:V:8:ILE:HG22	1:V:40:ASN:HD21	1.79	0.46
1:W:194:GLU:HG2	1:W:195:GLU:N	2.27	0.46
1:W:388:ILE:H	1:W:388:ILE:HD13	1.81	0.46
1:X:414:LEU:HB3	1:X:455:THR:HG21	1.98	0.46
1:Y:14:HIS:ND1	1:Y:36:ILE:CG2	2.78	0.46
1:Y:72:SER:HA	1:Y:84:ARG:HG3	1.98	0.46
1:Z:337:LEU:HD23	1:Z:337:LEU:N	2.31	0.46
1:Z:523:PHE:CD1	1:Z:545:TRP:NE1	2.84	0.46
1:A:185:ARG:HH21	1:A:208:VAL:HG22	2.28	0.46
1:A:798:MET:O	1:A:802:LEU:HD23	2.16	0.46
1:A:49:ARG:CZ	1:B:8:ILE:HD12	5.14	0.46
1:C:220:ILE:C	1:C:222:THR:N	2.96	0.46
1:C:335:LYS:HD2	1:C:365:TYR:CE2	2.67	0.46
1:D:120:ALA:HB2	1:D:164:GLN:NE2	2.37	0.46
1:D:150:THR:HG23	1:D:151:TYR:H	1.90	0.46
1:D:179:ARG:CZ	1:D:210:GLU:HB2	2.45	0.46
1:D:217:ASP:OD1	1:D:218:ALA:O	2.88	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:490:ASP:O	1:D:491:PRO:C	2.64	0.46
1:D:812:VAL:HG12	1:D:812:VAL:O	2.16	0.46
1:E:177:ARG:HB2	1:E:177:ARG:HH11	1.81	0.46
1:E:220:ILE:C	1:E:222:THR:H	2.18	0.46
1:E:381:PRO:HA	1:E:405:THR:HB	1.98	0.46
1:E:389:TYR:CZ	1:E:457:VAL:HA	2.59	0.46
1:E:60:ILE:H	1:E:60:ILE:HD13	3.02	0.46
1:E:65:VAL:CG1	1:E:110:THR:HG22	2.71	0.46
1:F:252:THR:O	1:F:254:GLN:NE2	4.70	0.46
1:F:54:PRO:CB	1:F:55:PRO:CD	2.83	0.46
1:F:564:VAL:HG22	1:F:631:ASN:ND2	2.30	0.46
1:F:394:LYS:CG	1:G:329:GLN:HG3	2.37	0.46
1:G:340:LEU:HD23	1:G:352:GLN:HA	1.98	0.46
1:G:7:ILE:HD13	1:G:41:GLU:OE1	4.14	0.46
1:H:113:GLN:O	1:H:114:VAL:HG13	2.23	0.46
1:H:186:GLU:OE2	1:H:204:TYR:HE1	3.78	0.46
1:H:332:LEU:HD11	1:H:379:ALA:HB2	1.97	0.46
1:H:465:ASN:HB3	1:H:519:GLY:HA3	2.11	0.46
1:H:69:THR:HA	1:H:106:GLU:HB3	2.05	0.46
1:I:325:VAL:HG13	1:I:325:VAL:O	2.25	0.46
1:I:599:ILE:O	1:I:603:VAL:HG23	2.16	0.46
1:J:288:MET:HE2	1:J:288:MET:HB3	2.17	0.46
1:J:288:MET:HE2	1:J:294:ASN:ND2	2.15	0.46
1:J:551:ASN:HB2	1:J:557:GLU:OE2	2.43	0.46
1:K:15:TYR:O	1:K:34:THR:OG1	2.34	0.46
1:K:328:GLU:OE1	1:K:361:GLY:O	7.33	0.46
1:K:496:THR:O	1:K:496:THR:CG2	2.69	0.46
1:K:628:PHE:HD1	1:K:633:LEU:HB3	1.80	0.46
1:J:535:ALA:HA	1:K:658:VAL:HG21	1.98	0.46
1:L:67:ARG:CD	1:L:108:ASP:HB3	2.46	0.46
1:L:30:VAL:HG22	1:L:74:LEU:CG	2.45	0.46
1:L:273:ILE:HD13	1:L:316:LEU:HD11	3.44	0.46
1:L:7:ILE:O	1:L:41:GLU:HG3	2.29	0.46
1:L:2:ALA:HB3	1:L:46:ALA:O	2.23	0.46
1:L:594:ASN:O	1:L:595:SER:C	2.54	0.46
1:L:719:THR:HG22	1:M:728:SER:HA	1.98	0.46
1:L:808:ARG:O	1:L:812:VAL:HG23	2.15	0.46
1:M:109:ILE:HD12	1:M:153:PRO:HG2	1.98	0.46
1:M:251:VAL:CG2	1:M:254:GLN:HE21	2.56	0.46
1:M:527:ILE:CD1	1:M:541:LEU:HG	2.27	0.46
1:M:595:SER:O	1:M:599:ILE:HG12	3.03	0.46
1:N:318:ARG:O	1:N:319:GLY:C	2.54	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:653:ALA:HA	1:N:656:ARG:NH2	2.31	0.46
1:P:196:TRP:HA	1:P:196:TRP:HE3	1.80	0.46
1:P:334:LEU:HD23	1:P:357:TRP:O	2.16	0.46
1:P:398:VAL:N	1:Q:384:GLN:OE1	2.46	0.46
1:Q:3:THR:H	1:Q:50:MET:HE1	1.81	0.46
1:Q:536:ARG:HB2	1:Q:646:VAL:HB	1.97	0.46
1:Q:752:ALA:HA	1:Q:755:THR:HG22	1.98	0.46
1:R:204:TYR:O	1:R:206:PRO:HD3	2.16	0.46
1:S:296:LEU:HD13	1:S:296:LEU:H	1.81	0.46
1:S:472:ASP:HA	1:S:493:GLU:CB	2.46	0.46
1:T:281:TYR:CD2	1:T:366:VAL:HG13	2.51	0.46
1:T:36:ILE:HG21	1:T:99:LEU:HB2	1.97	0.46
1:V:234:ASN:ND2	1:V:245:THR:H	2.13	0.46
1:V:758:GLU:O	1:V:761:ARG:HB2	2.16	0.46
1:W:261:PRO:HD2	1:W:264:TYR:HB2	1.98	0.46
1:X:327:SER:H	1:X:331:GLY:HA3	1.80	0.46
1:X:327:SER:CA	1:X:331:GLY:HA3	2.45	0.46
1:Y:326:LEU:HD13	1:Y:360:ARG:HA	1.97	0.46
1:Y:470:VAL:HB	1:Y:479:ARG:HD2	1.98	0.46
1:A:706:LEU:HB2	1:Z:697:SER:HB3	179.85	0.46
1:A:18:VAL:HG13	1:A:48:VAL:CG2	2.35	0.45
1:A:601:MET:HG3	1:A:622:ALA:HB2	2.74	0.45
1:B:276:LEU:O	1:B:277:GLY:C	2.55	0.45
1:B:419:LEU:HD12	1:B:494:GLN:NE2	2.30	0.45
1:C:190:ARG:O	1:C:191:VAL:HG23	2.16	0.45
1:C:330:GLN:HG3	1:C:379:ALA:CB	2.46	0.45
1:C:415:TRP:CH2	1:C:417:LYS:HB3	2.51	0.45
1:C:415:TRP:C	1:C:455:THR:HG22	2.61	0.45
1:D:234:ASN:HD22	1:D:234:ASN:N	2.94	0.45
1:D:327:SER:H	1:D:331:GLY:HA3	1.81	0.45
1:D:517:LEU:CD1	1:D:517:LEU:H	2.45	0.45
1:D:67:ARG:HH21	1:D:107:LYS:CA	2.22	0.45
1:D:701:LYS:HG3	1:E:709:LEU:HD13	1.97	0.45
1:F:725:GLU:O	1:F:728:SER:HB3	2.21	0.45
1:G:16:ILE:CD1	1:G:34:THR:HG21	2.45	0.45
1:G:527:ILE:CD1	1:G:541:LEU:HG	2.45	0.45
1:F:654:LEU:CD1	1:G:662:ILE:HD13	2.47	0.45
1:H:426:LEU:C	1:H:428:ASN:H	2.28	0.45
1:H:51:VAL:O	1:H:53:VAL:HG23	2.33	0.45
1:H:597:ARG:O	1:H:601:MET:HB2	2.51	0.45
1:I:11:PRO:HB2	1:I:12:PRO:HD3	1.97	0.45
1:K:122:HIS:HB3	1:K:159:VAL:HB	2.12	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:550:LYS:HG3	1:K:551:ASN:ND2	4.62	0.45
1:L:333:LEU:HB2	1:L:359:ILE:CD1	3.86	0.45
1:L:554:ASP:C	1:L:554:ASP:OD2	2.74	0.45
1:M:122:HIS:HB3	1:M:159:VAL:HB	2.10	0.45
1:M:164:GLN:HB3	1:M:204:TYR:HA	1.98	0.45
1:M:88:GLN:HB3	1:M:154:GLN:HE22	1.80	0.45
1:O:490:ASP:OD2	1:O:491:PRO:HD2	2.16	0.45
1:O:501:SER:CB	1:O:507:ARG:O	2.63	0.45
1:P:229:LEU:HD23	1:P:266:GLU:CA	2.44	0.45
1:P:389:TYR:CE2	1:P:457:VAL:HG22	2.51	0.45
1:P:654:LEU:HD11	1:Q:662:ILE:HG21	1.96	0.45
1:Q:252:THR:H	1:Q:254:GLN:HE21	1.64	0.45
1:R:114:VAL:HG12	1:R:118:ASN:HD21	1.80	0.45
1:Q:244:ARG:HH11	1:R:221:LEU:HD11	1.81	0.45
1:R:36:ILE:C	1:R:36:ILE:HD13	2.32	0.45
1:R:396:GLY:CA	1:S:405:THR:HG23	2.46	0.45
1:S:339:PRO:HG3	1:T:278:PRO:HA	1.98	0.45
1:S:49:ARG:NH2	1:T:8:ILE:CD1	2.79	0.45
1:S:495:PHE:HB3	1:S:514:LEU:HD11	1.98	0.45
1:S:70:GLN:O	1:S:70:GLN:HG3	2.16	0.45
1:T:330:GLN:CG	1:T:379:ALA:HB3	2.46	0.45
1:T:485:GLU:HG2	1:T:486:LEU:N	2.31	0.45
1:T:527:ILE:HD13	1:T:539:LEU:O	2.16	0.45
1:U:129:PHE:O	1:U:130:GLU:HG2	2.16	0.45
1:U:24:ASN:ND2	1:U:30:VAL:HB	2.26	0.45
1:V:511:ARG:HH22	1:V:517:LEU:CD1	2.15	0.45
1:U:535:ALA:HA	1:V:658:VAL:HG21	1.98	0.45
1:W:270:VAL:O	1:W:309:PHE:HE2	1.99	0.45
1:W:395:THR:HB	1:W:397:LYS:H	1.81	0.45
1:W:519:GLY:O	1:W:521:ASP:N	2.36	0.45
1:X:452:ARG:NH1	1:X:452:ARG:HG3	2.31	0.45
1:Y:281:TYR:CD2	1:Y:366:VAL:HG13	2.51	0.45
1:Y:244:ARG:HB3	1:Z:221:LEU:HD23	1.98	0.45
1:A:660:LEU:HD13	1:A:663:GLU:HG2	2.43	0.45
1:B:164:GLN:CD	1:B:204:TYR:HB3	2.64	0.45
1:B:326:LEU:HD13	1:B:360:ARG:HA	1.97	0.45
1:B:459:SER:HB3	1:B:488:THR:CG2	2.32	0.45
1:B:485:GLU:CG	1:B:486:LEU:N	2.76	0.45
1:B:501:SER:CB	1:B:507:ARG:O	2.70	0.45
1:B:534:HIS:CD2	1:C:654:LEU:HG	2.89	0.45
1:B:550:LYS:HG3	1:B:551:ASN:H	2.60	0.45
1:B:571:ALA:O	1:B:575:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:245:THR:HG22	1:C:219:VAL:HG11	2.18	0.45
1:C:623:ARG:CG	1:C:624:ASP:N	2.93	0.45
1:C:560:LYS:HD2	1:C:630:GLN:O	2.15	0.45
1:C:61:VAL:HG13	1:C:65:VAL:HG23	1.98	0.45
1:C:807:ILE:HD11	1:D:806:THR:HG21	2.80	0.45
1:D:123:LEU:HD11	1:D:143:TRP:HB2	1.98	0.45
1:D:173:ALA:HB1	1:D:198:VAL:O	2.76	0.45
1:D:220:ILE:C	1:D:222:THR:H	2.20	0.45
1:D:474:ARG:HA	1:E:385:ASN:OD1	2.16	0.45
1:D:21:GLN:NE2	1:D:47:PRO:O	2.78	0.45
1:D:5:GLU:O	1:D:41:GLU:O	2.34	0.45
1:E:5:GLU:O	1:E:41:GLU:O	2.34	0.45
1:F:330:GLN:CB	1:F:379:ALA:HB3	2.32	0.45
1:F:532:ALA:HB1	1:G:593:LYS:HE2	2.01	0.45
1:F:56:ARG:HH11	1:F:99:LEU:HD23	2.23	0.45
1:G:70:GLN:HG3	1:G:70:GLN:O	2.15	0.45
1:H:185:ARG:HG3	1:H:206:PRO:HB3	2.23	0.45
1:H:176:LEU:HD23	1:H:211:GLU:HA	2.18	0.45
1:H:354:GLY:CA	1:I:328:GLU:HG3	2.80	0.45
1:H:653:ALA:HA	1:H:656:ARG:NH2	2.59	0.45
1:I:359:ILE:H	1:I:359:ILE:HD13	1.85	0.45
1:I:596:ALA:O	1:I:600:ARG:HB2	2.16	0.45
1:J:220:ILE:HD13	1:J:252:THR:HA	1.97	0.45
1:J:56:ARG:HH11	1:J:99:LEU:CD2	2.36	0.45
1:K:130:GLU:HA	1:K:136:LYS:HA	2.45	0.45
1:K:234:ASN:H	1:K:234:ASN:HD22	1.59	0.45
1:K:276:LEU:O	1:K:277:GLY:C	2.57	0.45
1:L:235:PHE:CE1	1:L:264:TYR:CE1	3.04	0.45
1:L:3:THR:H	1:L:50:MET:HE1	1.81	0.45
1:L:416:GLU:HB2	1:L:454:LYS:HB3	1.99	0.45
1:L:465:ASN:HB3	1:L:519:GLY:HA3	1.97	0.45
1:L:536:ARG:NH1	1:L:536:ARG:HB3	2.91	0.45
1:L:75:PHE:CE2	1:L:77:ILE:CG2	5.78	0.45
1:M:129:PHE:O	1:M:130:GLU:HG2	2.16	0.45
1:M:419:LEU:HD23	1:M:422:GLY:H	2.27	0.45
1:M:813:ALA:O	1:M:815:PRO:HD3	2.53	0.45
1:N:268:LEU:CD1	1:N:269:GLY:H	2.26	0.45
1:N:334:LEU:O	1:N:374:VAL:N	2.49	0.45
1:N:597:ARG:O	1:N:601:MET:HB2	2.16	0.45
1:O:234:ASN:ND2	1:O:245:THR:H	2.14	0.45
1:P:109:ILE:CD1	1:P:153:PRO:HG2	2.47	0.45
1:P:250:LEU:O	1:P:250:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:342:GLU:HA	1:P:350:SER:HA	1.98	0.45
1:Q:123:LEU:CG	1:Q:143:TRP:HB2	2.45	0.45
1:Q:54:PRO:CB	1:Q:55:PRO:HD3	2.38	0.45
1:R:336:ALA:O	1:R:371:VAL:HG13	2.17	0.45
1:R:339:PRO:HD2	1:R:370:LYS:HB3	1.98	0.45
1:S:697:SER:HB3	1:T:706:LEU:HB2	1.96	0.45
1:T:332:LEU:CD2	1:T:358:LEU:HD11	2.44	0.45
1:T:3:THR:CG2	1:T:50:MET:HE1	2.45	0.45
1:U:15:TYR:CE2	1:U:17:HIS:HB3	2.51	0.45
1:U:537:LEU:HD23	1:U:645:PRO:HA	1.98	0.45
1:V:177:ARG:HB2	1:V:177:ARG:NH1	2.31	0.45
1:W:65:VAL:HG12	1:W:110:THR:CG2	2.41	0.45
1:V:49:ARG:NH2	1:W:8:ILE:HD12	2.31	0.45
1:X:382:LEU:HD13	1:X:387:GLY:HA2	1.98	0.45
1:X:481:VAL:O	1:X:481:VAL:HG13	2.16	0.45
1:Y:382:LEU:N	1:Y:405:THR:HG22	2.31	0.45
1:Y:8:ILE:HA	1:Y:40:ASN:HD22	1.81	0.45
1:Y:77:ILE:HG13	1:Y:79:GLY:H	1.80	0.45
1:Z:13:TYR:CD1	1:Z:13:TYR:N	2.84	0.45
1:Z:382:LEU:HD13	1:Z:387:GLY:HA2	1.97	0.45
1:Z:70:GLN:HE21	1:Z:104:VAL:HG12	1.80	0.45
1:A:278:PRO:HA	1:Z:339:PRO:HG3	310.84	0.45
1:A:685:ARG:O	1:A:689:GLU:HB2	2.45	0.45
1:B:30:VAL:HG22	1:B:74:LEU:HD11	1.97	0.45
1:B:360:ARG:CD	1:B:407:MET:HG2	2.46	0.45
1:B:426:LEU:C	1:B:428:ASN:H	2.56	0.45
1:B:516:LEU:HD21	1:B:567:PHE:CE1	2.97	0.45
1:C:167:VAL:H	1:C:202:GLY:H	1.91	0.45
1:C:296:LEU:HD13	1:C:296:LEU:H	1.95	0.45
1:C:338:GLN:CB	1:C:339:PRO:CD	2.93	0.45
1:D:11:PRO:CA	1:D:38:GLN:HA	2.37	0.45
1:D:3:THR:HG22	1:D:50:MET:HE2	1.98	0.45
1:D:489:LEU:HD11	1:D:495:PHE:CE1	2.52	0.45
1:D:529:ILE:O	1:D:529:ILE:HD12	2.65	0.45
1:E:14:HIS:ND1	1:E:99:LEU:HD22	2.38	0.45
1:E:182:CYS:SG	1:E:208:VAL:HG23	2.55	0.45
1:E:580:ARG:HH22	1:F:595:SER:CB	2.29	0.45
1:F:167:VAL:HG22	1:F:201:VAL:HA	2.17	0.45
1:G:177:ARG:HB3	1:G:210:GLU:OE2	2.17	0.45
1:G:254:GLN:O	1:G:255:ASP:HB2	2.44	0.45
1:G:11:PRO:CA	1:G:38:GLN:HA	2.36	0.45
1:G:490:ASP:O	1:G:491:PRO:C	2.54	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:533:ASP:OD2	1:G:661:ALA:HB1	2.17	0.45
1:G:729:ARG:HB2	1:G:729:ARG:NH1	2.31	0.45
1:H:523:PHE:CD1	1:H:568:VAL:HG12	2.66	0.45
1:I:338:GLN:HB3	1:I:339:PRO:CD	2.70	0.45
1:I:621:LYS:HE3	1:I:621:LYS:O	2.55	0.45
1:J:154:GLN:CG	1:J:155:LYS:HZ2	3.00	0.45
1:J:245:THR:O	1:K:221:LEU:HD23	2.29	0.45
1:J:324:TYR:O	1:J:365:TYR:N	2.47	0.45
1:J:334:LEU:C	1:J:335:LYS:HG3	2.47	0.45
1:J:476:LYS:HE2	1:K:485:GLU:CG	3.12	0.45
1:J:540:GLN:HB2	1:J:642:SER:HB3	2.34	0.45
1:J:60:ILE:HD13	1:J:93:ALA:CA	2.88	0.45
1:K:220:ILE:HG12	1:K:220:ILE:O	2.17	0.45
1:K:221:LEU:HD13	1:K:256:THR:HB	1.97	0.45
1:K:326:LEU:O	1:K:328:GLU:CD	6.43	0.45
1:K:335:LYS:HE2	1:K:371:VAL:HG11	2.16	0.45
1:K:36:ILE:O	1:K:37:ARG:CG	2.69	0.45
1:K:474:ARG:CG	1:K:492:GLU:HB2	2.40	0.45
1:K:69:THR:HA	1:K:106:GLU:HB3	2.14	0.45
1:L:777:LEU:HD13	1:M:783:LYS:HB2	2.27	0.45
1:M:330:GLN:O	1:M:378:GLN:NE2	2.49	0.45
1:L:471:TYR:CE1	1:M:484:PRO:HG2	2.50	0.45
1:M:527:ILE:HD13	1:M:529:ILE:CG2	6.70	0.45
1:M:812:VAL:HG12	1:M:812:VAL:O	2.17	0.45
1:N:119:THR:HG22	1:N:120:ALA:H	1.82	0.45
1:N:130:GLU:N	1:N:137:VAL:HG12	2.23	0.45
1:O:150:THR:HG23	1:O:151:TYR:N	2.31	0.45
1:O:151:TYR:O	1:O:153:PRO:HD3	2.16	0.45
1:O:262:ASP:HB3	1:O:264:TYR:CE1	2.51	0.45
1:O:336:ALA:H	1:O:374:VAL:CG2	2.29	0.45
1:O:468:VAL:HG22	1:O:515:CYS:HA	1.96	0.45
1:O:755:THR:HG21	1:P:761:ARG:CG	2.35	0.45
1:O:77:ILE:HG13	1:O:80:GLN:H	1.80	0.45
1:Q:220:ILE:HD12	1:Q:252:THR:HA	1.98	0.45
1:P:473:TYR:HD2	1:Q:486:LEU:HB3	1.81	0.45
1:Q:655:GLN:O	1:Q:658:VAL:HG12	2.16	0.45
1:R:284:ILE:N	1:R:284:ILE:CD1	2.77	0.45
1:T:67:ARG:NH2	1:T:107:LYS:HA	2.26	0.45
1:T:600:ARG:NH1	1:T:622:ALA:HB3	2.31	0.45
1:U:192:THR:HG23	1:V:202:GLY:HA3	1.97	0.45
1:U:327:SER:CB	1:U:331:GLY:HA3	2.40	0.45
1:V:394:LYS:HA	1:W:329:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:587:THR:HG23	1:V:590:ASP:HB2	1.97	0.45
1:W:332:LEU:HD23	1:W:358:LEU:HD11	1.98	0.45
1:Y:397:LYS:HA	1:Z:384:GLN:OE1	2.17	0.45
1:Y:557:GLU:HA	1:Y:560:LYS:HB2	1.97	0.45
1:Z:182:CYS:SG	1:Z:208:VAL:HG23	2.56	0.45
1:Z:205:LEU:HD22	1:Z:211:GLU:HB2	1.98	0.45
1:Z:340:LEU:HD23	1:Z:353:ALA:H	1.81	0.45
1:Z:382:LEU:HB2	1:Z:404:SER:O	2.16	0.45
1:Z:421:SER:O	1:Z:423:VAL:N	2.50	0.45
1:Z:717:GLU:O	1:Z:721:ASN:HB2	2.15	0.45
1:A:235:PHE:HE1	1:A:237:ASP:HA	1.88	0.45
1:A:414:LEU:HD23	1:A:455:THR:OG1	2.46	0.45
1:A:489:LEU:HD11	1:A:495:PHE:CE1	2.63	0.45
1:A:537:LEU:HD23	1:A:645:PRO:HA	1.97	0.45
1:A:687:ARG:O	1:A:691:GLN:HG3	2.17	0.45
1:C:72:SER:OG	1:C:102:GLY:O	2.65	0.45
1:C:465:ASN:HB3	1:C:519:GLY:HA3	2.13	0.45
1:B:766:ARG:HD2	1:C:768:MET:CE	2.75	0.45
1:D:119:THR:HG22	1:D:120:ALA:H	1.91	0.45
1:D:169:LYS:CG	1:D:170:GLN:H	2.30	0.45
1:D:230:ARG:HB3	1:D:230:ARG:NH1	2.37	0.45
1:D:518:LEU:HA	1:D:547:PHE:CD1	2.49	0.45
1:D:540:GLN:HB2	1:D:642:SER:HB3	2.05	0.45
1:D:244:ARG:HH11	1:E:221:LEU:HD11	1.82	0.45
1:E:3:THR:CG2	1:E:50:MET:HE1	2.89	0.45
1:F:288:MET:HE3	1:F:312:PRO:HG2	4.31	0.45
1:F:334:LEU:HD22	1:F:374:VAL:HB	1.99	0.45
1:F:534:HIS:CD2	1:G:654:LEU:HG	2.61	0.45
1:F:544:ASN:HB2	1:F:637:SER:OG	2.46	0.45
1:G:164:GLN:HE21	1:G:204:TYR:HB2	1.80	0.45
1:G:288:MET:CE	1:G:294:ASN:ND2	2.79	0.45
1:H:267:VAL:O	1:H:268:LEU:HB2	2.20	0.45
1:H:340:LEU:HG	1:H:353:ALA:H	2.36	0.45
1:H:527:ILE:CD1	1:H:527:ILE:H	2.24	0.45
1:H:807:ILE:HD12	1:H:808:ARG:H	1.82	0.45
1:J:261:PRO:HD2	1:J:264:TYR:HD1	1.83	0.45
1:J:380:ILE:HD12	1:J:406:TYR:O	4.38	0.45
1:J:396:GLY:CA	1:K:405:THR:HG23	2.46	0.45
1:K:109:ILE:CD1	1:K:153:PRO:CG	2.93	0.45
1:K:332:LEU:HD22	1:K:377:ARG:HD2	2.49	0.45
1:K:771:ILE:HA	1:K:774:ARG:NH1	2.96	0.45
1:L:345:SER:C	1:L:347:GLU:H	2.44	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:235:PHE:CE1	1:M:237:ASP:HA	2.52	0.45
1:M:273:ILE:CD1	1:M:308:PHE:HB3	2.46	0.45
1:M:504:ARG:HD3	1:M:504:ARG:HA	2.01	0.45
1:L:580:ARG:HD2	1:M:640:VAL:O	2.93	0.45
1:L:774:ARG:HA	1:M:779:LEU:HD21	1.99	0.45
1:N:329:GLN:NE2	1:N:330:GLN:HE21	2.15	0.45
1:M:719:THR:HG22	1:N:728:SER:HA	1.98	0.45
1:P:63:ASN:H	1:P:64:PRO:HD2	1.81	0.45
1:Q:398:VAL:HG11	1:Q:415:TRP:CD2	2.51	0.45
1:R:32:PRO:HG2	1:S:11:PRO:HG3	1.97	0.45
1:R:507:ARG:HB2	1:R:510:ALA:HB2	1.97	0.45
1:S:119:THR:HG23	1:S:163:ILE:HG23	1.97	0.45
1:S:408:LEU:N	1:S:408:LEU:HD12	2.32	0.45
1:S:703:ARG:HB2	1:S:703:ARG:CZ	2.46	0.45
1:T:164:GLN:HB3	1:T:204:TYR:HA	1.97	0.45
1:T:245:THR:OG1	1:U:170:GLN:OE1	2.33	0.45
1:T:485:GLU:HG2	1:T:486:LEU:H	1.81	0.45
1:T:519:GLY:O	1:T:521:ASP:N	2.44	0.45
1:T:594:ASN:O	1:T:595:SER:C	2.55	0.45
1:U:120:ALA:HB3	1:U:162:ILE:HG13	1.98	0.45
1:U:623:ARG:CG	1:U:624:ASP:N	2.74	0.45
1:U:766:ARG:HD3	1:V:772:TYR:HB2	1.98	0.45
1:U:777:LEU:HD11	1:V:783:LYS:HB2	1.99	0.45
1:W:250:LEU:HD22	1:W:312:PRO:HD3	1.97	0.45
1:W:633:LEU:HD23	1:W:634:VAL:N	2.32	0.45
1:X:129:PHE:N	1:X:129:PHE:CD1	2.84	0.45
1:X:90:ILE:HG23	1:X:154:GLN:HB2	1.98	0.45
1:X:174:LEU:CB	1:X:198:VAL:HB	2.44	0.45
1:X:647:ASP:HB3	1:X:650:THR:OG1	2.16	0.45
1:Y:230:ARG:HB3	1:Y:230:ARG:HH11	1.80	0.45
1:Y:251:VAL:CG2	1:Y:254:GLN:NE2	2.73	0.45
1:Z:13:TYR:HD1	1:Z:13:TYR:N	2.14	0.45
1:Z:209:PHE:HD2	1:Z:209:PHE:N	2.14	0.45
1:A:283:VAL:HB	1:A:317:GLU:HB3	1.98	0.45
1:A:522:PHE:C	1:A:522:PHE:CD2	2.92	0.45
1:B:327:SER:CB	1:B:331:GLY:CA	2.90	0.45
1:B:379:ALA:HB1	1:B:406:TYR:O	2.48	0.45
1:C:468:VAL:HG22	1:C:515:CYS:HA	1.98	0.45
1:C:501:SER:HA	1:C:507:ARG:O	2.49	0.45
1:C:745:LYS:O	1:C:748:ALA:HB3	2.17	0.45
1:B:777:LEU:CD1	1:C:783:LYS:HB2	2.37	0.45
1:E:123:LEU:HD11	1:E:143:TRP:CD1	3.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:154:GLN:CG	1:E:155:LYS:HG3	2.34	0.45
1:E:164:GLN:CD	1:E:204:TYR:CB	3.57	0.45
1:E:164:GLN:NE2	1:E:204:TYR:HB2	2.32	0.45
1:E:392:ASP:O	1:E:396:GLY:N	2.41	0.45
1:E:781:VAL:HG12	1:E:782:SER:N	2.31	0.45
1:F:235:PHE:CE1	1:F:264:TYR:CE1	3.04	0.45
1:F:235:PHE:CZ	1:F:264:TYR:CE1	3.05	0.45
1:F:771:ILE:N	1:F:771:ILE:CD1	2.79	0.45
1:G:104:VAL:HG22	1:G:105:LEU:H	2.00	0.45
1:G:329:GLN:NE2	1:G:330:GLN:HG2	2.32	0.45
1:G:474:ARG:HG2	1:G:492:GLU:HB2	1.95	0.45
1:G:539:LEU:HD22	1:G:643:VAL:HG22	2.00	0.45
1:H:121:LEU:HB2	1:H:145:PHE:CB	2.47	0.45
1:I:122:HIS:O	1:I:159:VAL:N	2.46	0.45
1:I:182:CYS:SG	1:I:208:VAL:CB	2.99	0.45
1:I:67:ARG:O	1:I:91:ARG:N	2.42	0.45
1:J:273:ILE:HD13	1:J:316:LEU:HD21	1.98	0.45
1:K:268:LEU:HD12	1:K:269:GLY:O	2.53	0.45
1:K:342:GLU:HB2	1:K:350:SER:HB2	2.48	0.45
1:K:332:LEU:HD11	1:K:407:MET:HB3	2.70	0.45
1:K:529:ILE:HD11	1:K:537:LEU:HB2	2.22	0.45
1:K:623:ARG:CG	1:K:624:ASP:N	2.78	0.45
1:K:682:GLN:O	1:K:683:GLU:C	2.90	0.45
1:L:125:ALA:HB1	1:L:128:ASP:HB3	2.47	0.45
1:L:234:ASN:HA	1:L:243:HIS:O	2.29	0.45
1:L:70:GLN:HB3	1:L:104:VAL:N	2.26	0.45
1:M:60:ILE:CD1	1:M:60:ILE:H	2.21	0.45
1:N:185:ARG:HH22	1:N:207:ALA:HB3	1.81	0.45
1:N:235:PHE:CE1	1:N:264:TYR:CE1	3.05	0.45
1:N:326:LEU:HA	1:N:326:LEU:HD23	1.66	0.45
1:N:472:ASP:HA	1:N:493:GLU:CB	2.47	0.45
1:N:30:VAL:HG22	1:N:74:LEU:HD11	1.97	0.45
1:O:14:HIS:CB	1:O:56:ARG:CB	2.93	0.45
1:P:111:PRO:HB2	1:P:150:THR:HG21	1.99	0.45
1:P:199:ARG:HH21	1:P:258:ALA:HB3	1.81	0.45
1:P:325:VAL:HG13	1:P:325:VAL:O	2.17	0.45
1:Q:151:TYR:N	1:Q:151:TYR:HD1	2.15	0.45
1:Q:325:VAL:HG13	1:Q:325:VAL:O	2.17	0.45
1:Q:332:LEU:HD11	1:Q:407:MET:HB3	1.97	0.45
1:R:220:ILE:HD12	1:R:252:THR:HA	1.98	0.45
1:S:182:CYS:SG	1:S:208:VAL:HG23	2.56	0.45
1:S:490:ASP:N	1:S:493:GLU:HG2	2.28	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:220:ILE:HD12	1:T:252:THR:HA	1.99	0.45
1:U:3:THR:HG22	1:U:50:MET:CE	2.47	0.45
1:V:395:THR:HB	1:V:397:LYS:H	1.81	0.45
1:W:5:GLU:HG2	1:W:43:VAL:CG2	2.46	0.45
1:X:236:ARG:HA	1:X:241:VAL:O	2.17	0.45
1:X:83:LEU:HD13	1:X:86:ALA:HB3	1.97	0.45
1:Y:2:ALA:HB3	1:Y:46:ALA:O	2.17	0.45
1:Z:384:GLN:HE21	1:Z:384:GLN:N	2.13	0.45
1:A:67:ARG:HE	1:A:107:LYS:C	2.20	0.45
1:A:167:VAL:HA	1:A:172:GLN:OE1	2.40	0.45
1:A:379:ALA:HB2	1:A:407:MET:HB3	1.99	0.45
1:A:807:ILE:HG13	1:A:807:ILE:H	1.57	0.45
1:B:84:ARG:HH22	1:B:101:PRO:HD2	1.94	0.45
1:B:291:ASP:HB3	1:B:293:LYS:HB2	3.68	0.45
1:B:490:ASP:N	1:B:493:GLU:HG2	2.46	0.45
1:B:9:ARG:CZ	1:B:15:TYR:HB3	2.71	0.45
1:C:260:VAL:CA	1:C:264:TYR:H	2.47	0.45
1:C:3:THR:CG2	1:C:50:MET:HE1	2.61	0.45
1:C:662:ILE:O	1:C:666:THR:HB	2.16	0.45
1:C:722:ALA:HB1	1:D:732:ALA:HB2	1.98	0.45
1:B:723:LYS:HG2	1:C:735:ILE:HD11	1.99	0.45
1:D:252:THR:O	1:D:253:VAL:C	2.55	0.45
1:D:338:GLN:HB2	1:D:339:PRO:CD	2.38	0.45
1:D:471:TYR:CD1	1:D:478:ALA:HB2	2.86	0.45
1:D:501:SER:HB3	1:D:507:ARG:O	2.38	0.45
1:D:708:GLU:HG2	1:E:716:VAL:HG11	1.99	0.45
1:E:326:LEU:HD13	1:E:360:ARG:CA	2.47	0.45
1:E:530:GLU:HA	1:E:535:ALA:O	2.16	0.45
1:E:795:PHE:O	1:E:799:THR:HG22	2.73	0.45
1:G:360:ARG:CG	1:G:361:GLY:N	2.79	0.45
1:G:808:ARG:O	1:G:812:VAL:HG23	2.21	0.45
1:H:380:ILE:HG21	1:H:456:ARG:NH2	4.36	0.45
1:H:382:LEU:N	1:H:405:THR:HG22	2.31	0.45
1:H:36:ILE:HG21	1:H:99:LEU:CD1	2.46	0.45
1:I:330:GLN:O	1:I:378:GLN:NE2	2.49	0.45
1:I:332:LEU:HG	1:I:360:ARG:HB2	1.98	0.45
1:I:501:SER:HB3	1:I:507:ARG:O	2.17	0.45
1:I:522:PHE:C	1:I:522:PHE:CD2	2.90	0.45
1:I:660:LEU:HA	1:I:663:GLU:CB	2.46	0.45
1:I:700:GLU:OE2	1:I:703:ARG:HD2	2.16	0.45
1:I:707:LEU:HA	1:I:710:GLU:HB2	2.27	0.45
1:J:415:TRP:CZ3	1:J:417:LYS:HB3	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:496:THR:CG2	1:J:496:THR:O	2.63	0.45
1:J:726:ALA:HA	1:J:729:ARG:HB3	1.99	0.45
1:J:775:ALA:O	1:J:778:GLU:HG3	3.48	0.45
1:K:29:GLU:HB3	1:K:84:ARG:HD3	1.98	0.45
1:K:558:ALA:O	1:K:561:LEU:HD12	2.44	0.45
1:L:111:PRO:HB2	1:L:150:THR:HG21	2.29	0.45
1:L:168:ILE:HD12	1:L:172:GLN:CD	6.03	0.45
1:L:244:ARG:N	1:L:247:GLU:OE1	2.44	0.45
1:L:36:ILE:HG21	1:L:99:LEU:CD1	2.39	0.45
1:L:750:ALA:C	1:L:752:ALA:H	2.35	0.45
1:L:398:VAL:H	1:M:384:GLN:CD	2.42	0.45
1:M:395:THR:HB	1:M:397:LYS:H	2.17	0.45
1:A:706:LEU:HB2	1:M:697:SER:HB3	178.43	0.45
1:A:712:MET:HB3	1:M:704:LYS:HD2	178.28	0.45
1:L:715:ALA:HA	1:M:724:ALA:HB1	1.99	0.45
1:N:291:ASP:C	1:N:293:LYS:N	2.69	0.45
1:N:311:GLN:N	1:N:314:GLU:HG3	2.32	0.45
1:N:539:LEU:HA	1:N:642:SER:O	2.16	0.45
1:N:596:ALA:O	1:N:600:ARG:HB2	2.16	0.45
1:O:14:HIS:HB2	1:O:56:ARG:HB2	1.98	0.45
1:O:752:ALA:O	1:O:756:GLU:HB2	2.16	0.45
1:O:7:ILE:H	1:O:41:GLU:HG3	1.81	0.45
1:Q:328:GLU:O	1:Q:329:GLN:C	2.55	0.45
1:Q:408:LEU:N	1:Q:408:LEU:HD12	2.24	0.45
1:R:67:ARG:NH2	1:R:108:ASP:OD1	2.50	0.45
1:R:25:VAL:O	1:R:26:SER:HB2	2.16	0.45
1:R:291:ASP:C	1:R:293:LYS:N	2.69	0.45
1:S:155:LYS:HZ2	1:S:155:LYS:H	1.65	0.45
1:T:452:ARG:HG3	1:T:452:ARG:HH11	1.81	0.45
1:U:180:LYS:C	1:U:182:CYS:N	2.70	0.45
1:U:399:ARG:HG2	1:U:399:ARG:NH1	2.31	0.45
1:U:672:ALA:HA	1:U:675:HIS:HB2	1.98	0.45
1:V:120:ALA:HB2	1:V:164:GLN:NE2	2.31	0.45
1:V:260:VAL:HB	1:V:263:VAL:CA	2.44	0.45
1:V:469:GLN:O	1:V:496:THR:HB	2.16	0.45
1:W:217:ASP:OD1	1:W:257:GLU:O	2.35	0.45
1:W:249:TRP:N	1:W:249:TRP:CD1	2.85	0.45
1:W:311:GLN:HB3	1:W:312:PRO:HD2	1.97	0.45
1:W:382:LEU:HB2	1:W:404:SER:O	2.16	0.45
1:X:363:LEU:CD1	1:X:364:GLU:H	2.29	0.45
1:X:653:ALA:HB3	1:Y:662:ILE:HD13	1.97	0.45
1:Y:352:GLN:O	1:Y:355:ASP:CB	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:340:LEU:HG	1:Y:353:ALA:HB2	1.99	0.45
1:Y:796:LYS:HE3	1:Y:800:GLU:OE2	2.17	0.45
1:Z:337:LEU:HG	1:Z:354:GLY:H	1.80	0.45
1:Z:417:LYS:HE3	1:Z:491:PRO:O	2.16	0.45
1:A:30:VAL:HG22	1:A:74:LEU:HD11	1.99	0.45
1:B:67:ARG:HG2	1:B:108:ASP:HA	1.97	0.45
1:C:185:ARG:NH2	1:C:208:VAL:HG22	2.31	0.45
1:C:310:LEU:HD12	1:C:310:LEU:H	2.28	0.45
1:C:335:LYS:HA	1:C:374:VAL:HG23	1.98	0.45
1:C:14:HIS:HB2	1:C:56:ARG:HB2	2.16	0.45
1:C:697:SER:CA	1:D:706:LEU:HD23	2.47	0.45
1:E:121:LEU:HD12	1:E:145:PHE:CD2	2.50	0.45
1:E:260:VAL:CB	1:E:263:VAL:HA	2.40	0.45
1:E:16:ILE:CD1	1:E:34:THR:HG21	4.37	0.45
1:E:60:ILE:CD1	1:E:60:ILE:N	2.93	0.45
1:F:196:TRP:HA	1:F:196:TRP:CE3	2.53	0.45
1:F:243:HIS:NE2	1:F:249:TRP:CD2	2.72	0.45
1:F:3:THR:HG22	1:F:50:MET:CE	2.47	0.45
1:F:663:GLU:O	1:F:666:THR:HG22	2.16	0.45
1:G:109:ILE:CD1	1:G:153:PRO:CG	3.18	0.45
1:G:191:VAL:CG1	1:G:192:THR:N	3.00	0.45
1:G:172:GLN:CG	1:G:216:VAL:HG12	2.80	0.45
1:G:217:ASP:OD1	1:G:218:ALA:N	2.68	0.45
1:G:230:ARG:HB3	1:G:230:ARG:HH11	1.81	0.45
1:G:605:GLY:O	1:G:623:ARG:HB2	2.28	0.45
1:H:18:VAL:HG13	1:H:48:VAL:CG2	2.43	0.45
1:H:279:ARG:CA	1:H:323:VAL:HG22	2.47	0.45
1:H:383:ASP:O	1:H:385:ASN:N	2.52	0.45
1:H:390:VAL:HG12	1:H:408:LEU:HD23	1.98	0.45
1:I:130:GLU:HA	1:I:137:VAL:H	2.21	0.45
1:I:115:VAL:HA	1:I:147:GLY:O	2.54	0.45
1:I:336:ALA:H	1:I:374:VAL:HG23	1.85	0.45
1:I:579:VAL:HG22	1:I:599:ILE:HG23	2.35	0.45
1:J:119:THR:HG23	1:J:163:ILE:HG13	4.52	0.45
1:J:245:THR:CG2	1:J:246:GLY:N	2.80	0.45
1:J:326:LEU:O	1:J:328:GLU:HG2	5.99	0.45
1:J:524:THR:HG22	1:J:542:ALA:HB2	2.46	0.45
1:K:67:ARG:NE	1:K:108:ASP:HB3	2.32	0.45
1:K:154:GLN:CG	1:K:155:LYS:HG3	2.59	0.45
1:K:20:ASP:HB2	1:K:49:ARG:HD3	2.15	0.45
1:K:387:GLY:HA3	1:K:402:ILE:CG2	2.44	0.45
1:K:471:TYR:HE2	1:L:485:GLU:HA	1.82	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:579:VAL:HG22	1:K:599:ILE:HD12	1.99	0.45
1:K:705:GLU:O	1:K:709:LEU:HG	2.17	0.45
1:L:146:GLU:HA	1:L:146:GLU:OE1	2.16	0.45
1:L:164:GLN:CD	1:L:204:TYR:CB	2.82	0.45
1:L:184:ASP:OD2	1:L:209:PHE:HZ	2.31	0.45
1:L:243:HIS:CD2	1:L:249:TRP:CE2	3.42	0.45
1:L:601:MET:HG3	1:L:622:ALA:HB2	2.38	0.45
1:M:130:GLU:HB3	1:M:136:LYS:HA	1.96	0.45
1:N:217:ASP:OD1	1:N:218:ALA:N	2.49	0.45
1:N:472:ASP:HA	1:N:493:GLU:HB3	1.98	0.45
1:O:338:GLN:HB3	1:O:339:PRO:CD	2.41	0.45
1:O:549:LEU:HD12	1:O:552:ARG:HA	1.99	0.45
1:O:68:ASP:OD1	1:O:106:GLU:HA	2.17	0.45
1:P:185:ARG:HG3	1:P:206:PRO:CB	2.47	0.45
1:P:474:ARG:CG	1:P:492:GLU:HB2	2.46	0.45
1:P:568:VAL:HG23	1:P:569:GLY:N	2.32	0.45
1:O:654:LEU:HD11	1:P:662:ILE:HG21	1.98	0.45
1:Q:285:LEU:HD12	1:Q:315:ARG:HD2	1.99	0.45
1:Q:594:ASN:O	1:Q:597:ARG:N	2.48	0.45
1:Q:697:SER:HB3	1:R:706:LEU:HB2	1.98	0.45
1:S:122:HIS:CB	1:S:160:VAL:O	2.65	0.45
1:S:239:ARG:HH21	1:S:257:GLU:HG2	1.82	0.45
1:S:507:ARG:HB2	1:S:510:ALA:HB2	1.99	0.45
1:T:119:THR:HG22	1:T:120:ALA:H	1.80	0.45
1:U:653:ALA:HB3	1:V:662:ILE:HD13	1.98	0.45
1:T:697:SER:CA	1:U:706:LEU:HD23	2.46	0.45
1:V:336:ALA:O	1:V:371:VAL:HG13	2.17	0.45
1:V:55:PRO:O	1:V:56:ARG:HG2	2.16	0.45
1:U:654:LEU:CD1	1:V:662:ILE:HD13	2.47	0.45
1:W:169:LYS:HB3	1:W:201:VAL:CG1	2.47	0.45
1:W:345:SER:C	1:W:347:GLU:H	2.20	0.45
1:X:175:ARG:NH2	1:X:263:VAL:HG13	2.30	0.45
1:X:342:GLU:HB2	1:X:350:SER:HB2	1.97	0.45
1:X:543:TYR:CE2	1:X:575:ILE:HG21	2.52	0.45
1:X:77:ILE:CG1	1:X:80:GLN:H	2.27	0.45
1:Y:336:ALA:O	1:Y:371:VAL:HG13	2.16	0.45
1:Y:14:HIS:HB3	1:Y:56:ARG:HB2	1.99	0.45
1:A:338:GLN:CB	1:A:339:PRO:CD	2.94	0.45
1:B:235:PHE:CZ	1:B:264:TYR:CE1	3.12	0.45
1:B:251:VAL:HG21	1:B:257:GLU:HG2	2.14	0.45
1:B:336:ALA:HA	1:B:356:CYS:HB2	2.07	0.45
1:B:359:ILE:HD13	1:B:359:ILE:H	1.82	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:550:LYS:HG3	1:C:551:ASN:N	2.31	0.45
1:D:7:ILE:HB	1:D:41:GLU:OE1	2.70	0.45
1:D:9:ARG:HH12	1:D:36:ILE:CA	2.42	0.45
1:E:273:ILE:HD12	1:E:316:LEU:HD21	1.99	0.45
1:E:56:ARG:HD2	1:E:99:LEU:CD2	2.86	0.45
1:E:679:ARG:HH21	1:E:680:LEU:HG	1.82	0.45
1:E:245:THR:O	1:F:221:LEU:HD23	2.28	0.45
1:F:335:LYS:HG2	1:F:373:VAL:HG13	2.65	0.45
1:F:522:PHE:CD2	1:F:522:PHE:C	2.89	0.45
1:F:77:ILE:HG13	1:F:80:GLN:H	1.81	0.45
1:G:13:TYR:N	1:G:13:TYR:CD1	2.87	0.45
1:G:109:ILE:HD11	1:G:153:PRO:CB	2.45	0.45
1:G:262:ASP:HB3	1:G:264:TYR:CZ	2.52	0.45
1:G:383:ASP:HB2	1:G:386:GLU:HG2	2.10	0.45
1:G:554:ASP:HA	1:G:555:PRO:HD3	1.84	0.45
1:H:109:ILE:HD12	1:H:153:PRO:CG	2.46	0.45
1:H:185:ARG:HG3	1:H:206:PRO:CB	2.56	0.45
1:H:220:ILE:HD11	1:H:251:VAL:HG22	1.98	0.45
1:H:326:LEU:HA	1:H:326:LEU:HD23	1.82	0.45
1:H:452:ARG:NH1	1:H:452:ARG:HG3	2.30	0.45
1:H:527:ILE:CD1	1:H:539:LEU:HG	3.59	0.45
1:H:580:ARG:HH22	1:I:595:SER:CB	2.35	0.45
1:H:30:VAL:HG22	1:H:74:LEU:HG	1.98	0.45
1:I:206:PRO:HB2	1:I:209:PHE:CD2	2.51	0.45
1:I:495:PHE:CG	1:I:514:LEU:HD11	2.51	0.45
1:J:138:MET:SD	1:K:148:PRO:HG3	2.57	0.45
1:J:191:VAL:CG1	1:J:192:THR:N	3.00	0.45
1:J:5:GLU:HB2	1:J:41:GLU:OE1	2.53	0.45
1:J:459:SER:HA	1:J:488:THR:HA	1.98	0.45
1:J:554:ASP:HA	1:J:555:PRO:HD3	1.82	0.45
1:K:111:PRO:HB2	1:K:150:THR:HG21	1.99	0.45
1:K:279:ARG:O	1:K:322:ASP:HA	2.51	0.45
1:K:395:THR:HB	1:K:397:LYS:HB3	1.97	0.45
1:K:419:LEU:CD2	1:K:422:GLY:H	2.29	0.45
1:K:777:LEU:CD1	1:L:783:LYS:HB2	2.47	0.45
1:L:10:ILE:N	1:L:10:ILE:HD12	2.22	0.45
1:L:261:PRO:HD2	1:L:264:TYR:HD1	2.10	0.45
1:L:398:VAL:HG11	1:L:415:TRP:CE3	2.52	0.45
1:L:745:LYS:HG3	1:M:753:ILE:CD1	2.71	0.45
1:M:363:LEU:HD13	1:M:364:GLU:H	1.87	0.45
1:N:594:ASN:O	1:N:595:SER:C	2.54	0.45
1:N:67:ARG:HH21	1:N:107:LYS:CA	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:185:ARG:NH1	1:O:206:PRO:HB3	2.32	0.45
1:P:276:LEU:HD12	1:P:278:PRO:HD2	1.97	0.45
1:P:421:SER:O	1:P:423:VAL:N	2.50	0.45
1:P:771:ILE:HD12	1:P:774:ARG:HH12	1.81	0.45
1:Q:177:ARG:HD3	1:Q:195:GLU:OE2	2.17	0.45
1:Q:326:LEU:HA	1:Q:326:LEU:HD23	1.50	0.45
1:P:396:GLY:CA	1:Q:405:THR:HG23	2.47	0.45
1:R:175:ARG:HB2	1:R:213:LEU:O	2.17	0.45
1:R:60:ILE:HD13	1:R:93:ALA:O	2.16	0.45
1:S:270:VAL:O	1:S:309:PHE:HE2	2.00	0.45
1:S:332:LEU:HD13	1:S:377:ARG:HG2	1.97	0.45
1:S:51:VAL:O	1:S:53:VAL:HG23	2.17	0.45
1:T:121:LEU:O	1:T:144:LEU:HA	2.16	0.45
1:T:226:ALA:HB3	1:T:270:VAL:HG13	1.99	0.45
1:T:283:VAL:HG22	1:T:301:VAL:HG12	1.98	0.45
1:U:523:PHE:CD1	1:U:568:VAL:HG12	2.52	0.45
1:T:20:ASP:OD1	1:U:8:ILE:HD13	2.16	0.45
1:V:14:HIS:HB3	1:V:56:ARG:CB	2.45	0.45
1:W:326:LEU:O	1:W:328:GLU:HG2	2.17	0.45
1:X:13:TYR:N	1:X:13:TYR:HD1	2.15	0.45
1:X:243:HIS:NE2	1:X:249:TRP:CE2	2.85	0.45
1:X:568:VAL:HG23	1:X:569:GLY:N	2.31	0.45
1:Z:327:SER:O	1:Z:331:GLY:N	2.49	0.45
1:A:337:LEU:HG	1:A:354:GLY:H	1.82	0.45
1:A:380:ILE:HG13	1:A:380:ILE:H	1.76	0.45
1:A:382:LEU:HB2	1:A:404:SER:O	2.17	0.45
1:A:415:TRP:CZ3	1:A:417:LYS:HB3	2.52	0.45
1:B:155:LYS:HZ2	1:B:155:LYS:H	1.65	0.45
1:B:165:ALA:HB3	1:B:174:LEU:HD11	1.99	0.45
1:B:230:ARG:HB3	1:B:230:ARG:NH1	2.46	0.45
1:B:329:GLN:OE1	1:B:330:GLN:HG2	2.95	0.45
1:D:3:THR:HG22	1:D:50:MET:CE	2.46	0.45
1:C:589:ASP:HB2	1:D:665:THR:HG21	2.31	0.45
1:F:146:GLU:HA	1:F:146:GLU:OE1	2.41	0.45
1:F:645:PRO:HG2	1:F:651:ARG:HG3	2.45	0.45
1:G:426:LEU:C	1:G:428:ASN:H	2.48	0.45
1:G:594:ASN:O	1:G:595:SER:C	2.55	0.45
1:H:260:VAL:C	1:H:262:ASP:N	2.70	0.45
1:H:36:ILE:HG13	1:H:36:ILE:O	4.08	0.45
1:H:554:ASP:HA	1:H:555:PRO:HD3	1.96	0.45
1:I:90:ILE:CG2	1:I:154:GLN:HB2	2.47	0.45
1:I:339:PRO:HD2	1:I:370:LYS:HB3	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:523:PHE:CD1	1:I:568:VAL:HG12	2.52	0.45
1:J:74:LEU:HB2	1:J:100:TYR:CE2	2.52	0.45
1:J:152:ILE:O	1:J:152:ILE:HG12	2.17	0.45
1:J:154:GLN:HG3	1:J:155:LYS:HG3	1.99	0.45
1:J:220:ILE:HG13	1:J:256:THR:HA	1.99	0.45
1:J:217:ASP:OD2	1:J:257:GLU:O	2.34	0.45
1:K:114:VAL:HB	1:K:118:ASN:HD21	2.52	0.45
1:L:3:THR:HG22	1:L:50:MET:HE2	1.98	0.45
1:M:121:LEU:HB2	1:M:145:PHE:CB	2.47	0.45
1:M:131:ASP:CB	1:M:155:LYS:HD2	2.47	0.45
1:M:205:LEU:HD22	1:M:211:GLU:HB2	2.37	0.45
1:M:419:LEU:HD13	1:M:494:GLN:HE21	1.81	0.45
1:M:807:ILE:H	1:M:807:ILE:HG13	2.28	0.45
1:N:185:ARG:HG3	1:N:206:PRO:HB3	1.98	0.45
1:N:185:ARG:NH1	1:N:206:PRO:HB3	2.32	0.45
1:N:794:LYS:O	1:N:798:MET:HG2	2.17	0.45
1:N:244:ARG:HB3	1:O:221:LEU:HD23	1.98	0.45
1:P:243:HIS:NE2	1:P:249:TRP:CD2	2.72	0.45
1:Q:31:GLY:H	1:Q:84:ARG:NH1	2.14	0.45
1:Q:15:TYR:O	1:Q:34:THR:OG1	2.35	0.45
1:Q:464:HIS:CD2	1:Q:484:PRO:HB3	2.52	0.45
1:R:311:GLN:N	1:R:314:GLU:HG3	2.32	0.45
1:S:226:ALA:O	1:S:269:GLY:HA2	2.17	0.45
1:S:452:ARG:HG3	1:S:452:ARG:HH11	1.81	0.45
1:T:230:ARG:HH11	1:T:230:ARG:HB3	1.82	0.45
1:T:380:ILE:HA	1:T:381:PRO:HD3	1.83	0.45
1:U:18:VAL:O	1:U:32:PRO:HB3	2.16	0.45
1:U:557:GLU:O	1:U:560:LYS:HB2	2.17	0.45
1:V:130:GLU:HB3	1:V:136:LYS:HA	1.98	0.45
1:V:243:HIS:NE2	1:V:249:TRP:CE2	2.85	0.45
1:V:508:PRO:O	1:V:509:HIS:HD2	2.00	0.45
1:W:382:LEU:HD22	1:W:387:GLY:HA2	1.98	0.45
1:V:535:ALA:HA	1:W:658:VAL:HG21	1.99	0.45
1:X:568:VAL:HG23	1:X:569:GLY:H	1.82	0.45
1:A:115:VAL:HA	1:A:147:GLY:O	2.33	0.45
1:A:245:THR:C	1:A:247:GLU:H	2.27	0.45
1:A:5:GLU:HB2	1:A:41:GLU:OE1	2.62	0.45
1:A:533:ASP:CG	1:A:588:PHE:H	2.34	0.45
1:B:123:LEU:HG	1:B:143:TRP:HB2	1.98	0.45
1:B:30:VAL:HA	1:B:74:LEU:HD11	1.97	0.45
1:B:327:SER:O	1:B:328:GLU:CB	2.65	0.45
1:B:526:VAL:HA	1:B:539:LEU:O	2.34	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:244:ARG:O	1:C:247:GLU:HB2	2.17	0.45
1:C:358:LEU:HD13	1:C:377:ARG:HH21	1.82	0.45
1:C:501:SER:HB3	1:C:508:PRO:HA	1.98	0.45
1:D:586:VAL:HG12	1:D:587:THR:O	2.17	0.45
1:D:587:THR:HG23	1:D:590:ASP:HB2	1.99	0.45
1:D:734:ARG:HH21	1:D:735:ILE:CD1	2.29	0.45
1:D:796:LYS:O	1:D:799:THR:HG22	2.17	0.45
1:E:354:GLY:O	1:E:356:CYS:N	2.55	0.45
1:F:452:ARG:NH2	1:F:456:ARG:O	3.04	0.45
1:F:501:SER:HA	1:F:507:ARG:O	2.17	0.45
1:F:808:ARG:O	1:F:812:VAL:HG23	2.24	0.45
1:G:123:LEU:CD1	1:G:143:TRP:HB2	2.46	0.45
1:G:13:TYR:HD1	1:G:13:TYR:N	2.17	0.45
1:G:232:LEU:HD21	1:G:265:GLU:HB2	1.98	0.45
1:G:285:LEU:HD13	1:G:315:ARG:HH11	2.17	0.45
1:G:649:ARG:NH2	1:H:655:GLN:HG2	2.48	0.45
1:H:130:GLU:HA	1:H:137:VAL:HG13	1.99	0.45
1:H:179:ARG:NH2	1:H:209:PHE:O	2.72	0.45
1:I:250:LEU:HD13	1:I:311:GLN:HA	1.99	0.45
1:I:23:SER:HB2	1:I:31:GLY:HA2	1.99	0.45
1:I:527:ILE:HD11	1:I:539:LEU:HB2	1.98	0.45
1:I:76:ASP:CG	1:I:81:VAL:HA	2.65	0.45
1:J:182:CYS:O	1:J:190:ARG:CB	2.59	0.45
1:J:215:LEU:HB3	1:J:259:HIS:NE2	2.32	0.45
1:J:359:ILE:HD13	1:J:359:ILE:H	4.54	0.45
1:K:144:LEU:HD12	1:K:144:LEU:N	2.32	0.45
1:K:318:ARG:O	1:K:319:GLY:C	2.55	0.45
1:L:117:PRO:O	1:L:118:ASN:C	2.62	0.45
1:L:121:LEU:HB2	1:L:145:PHE:CB	2.62	0.45
1:L:328:GLU:HA	1:L:362:PRO:HA	1.99	0.45
1:M:285:LEU:HB2	1:M:315:ARG:HG2	1.98	0.45
1:M:300:ARG:HD3	1:M:300:ARG:HA	1.81	0.45
1:M:655:GLN:O	1:M:658:VAL:HG12	2.17	0.45
1:N:108:ASP:OD1	1:N:108:ASP:N	2.49	0.45
1:N:179:ARG:HE	1:N:179:ARG:HB2	1.47	0.45
1:P:221:LEU:HD13	1:P:256:THR:CB	2.40	0.45
1:P:417:LYS:O	1:P:418:GLU:HB2	2.17	0.45
1:P:517:LEU:H	1:P:517:LEU:HD12	1.82	0.45
1:Q:108:ASP:OD1	1:Q:108:ASP:N	2.50	0.45
1:Q:388:ILE:HD13	1:Q:388:ILE:H	1.82	0.45
1:Q:511:ARG:NH2	1:Q:517:LEU:HD11	2.20	0.45
1:S:13:TYR:N	1:S:13:TYR:HD1	2.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:165:ALA:HB2	1:U:211:GLU:OE2	2.17	0.45
1:U:221:LEU:HA	1:U:253:VAL:HG13	1.99	0.45
1:U:511:ARG:NH2	1:U:517:LEU:HD21	2.32	0.45
1:V:327:SER:CB	1:V:331:GLY:HA3	2.47	0.45
1:W:354:GLY:HA3	1:X:328:GLU:HG3	1.99	0.45
1:W:551:ASN:HB2	1:W:557:GLU:OE2	2.16	0.45
1:X:517:LEU:O	1:X:545:TRP:HH2	2.00	0.45
1:Y:330:GLN:CB	1:Y:379:ALA:HB3	2.46	0.45
1:Y:394:LYS:HZ3	1:Z:329:GLN:HB2	1.82	0.45
1:A:184:ASP:O	1:A:187:GLY:O	2.62	0.44
1:A:262:ASP:HB3	1:A:264:TYR:HE1	2.22	0.44
1:A:32:PRO:HG2	1:B:11:PRO:HG2	2.69	0.44
1:A:384:GLN:CD	1:M:398:VAL:H	282.64	0.44
1:B:175:ARG:HB2	1:B:213:LEU:O	2.16	0.44
1:B:504:ARG:HA	1:B:504:ARG:HD3	1.84	0.44
1:C:125:ALA:HB1	1:C:128:ASP:HB3	2.70	0.44
1:C:150:THR:HG23	1:C:151:TYR:N	2.34	0.44
1:C:180:LYS:O	1:C:182:CYS:N	2.59	0.44
1:C:197:LEU:HD12	1:C:199:ARG:NH1	2.43	0.44
1:C:566:ASP:OD2	1:C:569:GLY:HA3	2.18	0.44
1:D:281:TYR:O	1:D:282:CYS:HB3	2.17	0.44
1:C:398:VAL:H	1:D:384:GLN:CD	2.24	0.44
1:D:481:VAL:HG21	1:D:487:VAL:HG13	2.36	0.44
1:E:185:ARG:NH1	1:E:206:PRO:HB3	2.69	0.44
1:E:501:SER:CB	1:E:507:ARG:O	2.64	0.44
1:E:746:LEU:HD23	1:E:749:GLN:NE2	2.64	0.44
1:F:271:VAL:HG12	1:F:272:PRO:HD2	2.70	0.44
1:F:335:LYS:NZ	1:F:359:ILE:HD12	2.32	0.44
1:E:766:ARG:HD2	1:F:768:MET:HE3	1.99	0.44
1:G:64:PRO:HA	1:G:111:PRO:HD2	2.09	0.44
1:G:128:ASP:HB2	1:G:155:LYS:HB3	2.03	0.44
1:G:9:ARG:CZ	1:G:15:TYR:HB3	2.46	0.44
1:G:408:LEU:CD2	1:G:414:LEU:HD12	2.69	0.44
1:G:734:ARG:HH21	1:G:735:ILE:HD13	1.82	0.44
1:G:758:GLU:O	1:G:762:VAL:HG23	2.45	0.44
1:G:298:GLN:HG3	1:H:305:GLU:CD	2.41	0.44
1:H:32:PRO:HG2	1:I:11:PRO:CG	2.44	0.44
1:H:330:GLN:HG3	1:H:379:ALA:HB2	3.08	0.44
1:H:360:ARG:CD	1:H:407:MET:HG2	2.46	0.44
1:H:464:HIS:CD2	1:H:484:PRO:HB3	2.52	0.44
1:H:752:ALA:O	1:H:756:GLU:HB2	2.17	0.44
1:H:755:THR:HA	1:H:758:GLU:HB3	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:330:GLN:CG	1:I:379:ALA:CB	2.64	0.44
1:I:399:ARG:HA	1:I:491:PRO:HG3	1.98	0.44
1:J:333:LEU:HB2	1:J:359:ILE:CD1	3.56	0.44
1:J:14:HIS:HB3	1:J:56:ARG:CG	2.46	0.44
1:K:15:TYR:CE2	1:K:17:HIS:HB3	2.56	0.44
1:K:194:GLU:HG2	1:K:195:GLU:N	2.29	0.44
1:K:252:THR:O	1:K:253:VAL:C	2.54	0.44
1:K:283:VAL:HG22	1:K:301:VAL:CG1	2.48	0.44
1:K:489:LEU:HD22	1:K:493:GLU:O	2.16	0.44
1:K:569:GLY:O	1:K:573:LYS:HB2	2.47	0.44
1:K:707:LEU:HA	1:K:710:GLU:HB2	1.99	0.44
1:L:135:ASP:C	1:L:136:LYS:HG3	2.37	0.44
1:L:286:ASP:N	1:L:287:PRO:HD3	2.40	0.44
1:L:311:GLN:N	1:L:314:GLU:HG3	2.32	0.44
1:L:56:ARG:HD2	1:L:99:LEU:HD21	1.96	0.44
1:L:707:LEU:HD13	1:M:717:GLU:HB2	1.99	0.44
1:M:128:ASP:HB2	1:M:155:LYS:HB3	1.99	0.44
1:M:181:GLU:HA	1:M:181:GLU:OE1	2.74	0.44
1:N:389:TYR:CZ	1:N:457:VAL:HA	2.53	0.44
1:O:220:ILE:C	1:O:222:THR:H	2.21	0.44
1:P:318:ARG:O	1:P:319:GLY:C	2.53	0.44
1:P:676:GLU:OE1	1:P:676:GLU:HA	2.18	0.44
1:Q:69:THR:HA	1:Q:106:GLU:HB3	1.99	0.44
1:Q:251:VAL:HG23	1:Q:254:GLN:HE21	1.82	0.44
1:S:490:ASP:O	1:S:491:PRO:C	2.54	0.44
1:T:65:VAL:HG13	1:T:110:THR:HG22	1.98	0.44
1:T:192:THR:HG23	1:U:202:GLY:HA3	1.98	0.44
1:T:283:VAL:HG23	1:T:321:GLN:NE2	2.32	0.44
1:T:689:GLU:O	1:T:693:ILE:HD13	2.17	0.44
1:U:249:TRP:CD1	1:U:249:TRP:N	2.84	0.44
1:U:335:LYS:HA	1:U:374:VAL:HG23	2.00	0.44
1:V:182:CYS:SG	1:V:208:VAL:CB	3.05	0.44
1:V:285:LEU:C	1:V:287:PRO:HD3	2.37	0.44
1:V:517:LEU:O	1:V:545:TRP:CH2	2.69	0.44
1:W:125:ALA:HB3	1:W:140:GLY:HA2	1.98	0.44
1:W:234:ASN:O	1:W:235:PHE:HB3	2.16	0.44
1:X:13:TYR:CD1	1:X:13:TYR:N	2.84	0.44
1:X:252:THR:H	1:X:254:GLN:HE22	1.63	0.44
1:X:279:ARG:HG3	1:X:280:HIS:CD2	2.47	0.44
1:X:396:GLY:CA	1:Y:405:THR:HG23	2.47	0.44
1:X:654:LEU:HD11	1:Y:662:ILE:HG21	1.98	0.44
1:Z:109:ILE:HD12	1:Z:153:PRO:CG	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:113:GLN:HE21	1:Z:150:THR:HG22	1.82	0.44
1:A:130:GLU:CB	1:A:136:LYS:HA	2.47	0.44
1:A:183:PHE:HA	1:A:190:ARG:HD3	1.98	0.44
1:A:30:VAL:HG22	1:A:74:LEU:HG	2.10	0.44
1:A:6:ALA:HA	1:A:41:GLU:O	2.25	0.44
1:A:474:ARG:HH22	1:B:384:GLN:HG2	1.93	0.44
1:A:61:VAL:HG13	1:A:65:VAL:CG2	2.44	0.44
1:B:231:ALA:HB3	1:B:244:ARG:O	2.18	0.44
1:B:523:PHE:CD1	1:B:545:TRP:NE1	2.94	0.44
1:B:29:GLU:O	1:B:84:ARG:HD3	2.17	0.44
1:B:14:HIS:CE1	1:B:99:LEU:HB2	2.53	0.44
1:C:113:GLN:OE1	1:C:149:GLY:HA2	2.25	0.44
1:C:335:LYS:NZ	1:C:335:LYS:HB2	2.55	0.44
1:C:458:VAL:HG11	1:C:489:LEU:HD12	1.98	0.44
1:C:604:PHE:HD2	1:C:626:ALA:HB2	1.81	0.44
1:D:15:TYR:HA	1:D:53:VAL:HB	2.00	0.44
1:D:174:LEU:CB	1:D:198:VAL:HB	2.60	0.44
1:D:179:ARG:HH12	1:D:210:GLU:HG3	1.83	0.44
1:D:328:GLU:OE1	1:D:328:GLU:CA	2.46	0.44
1:D:60:ILE:CD1	1:D:60:ILE:N	2.88	0.44
1:F:354:GLY:CA	1:G:328:GLU:HG3	2.73	0.44
1:G:130:GLU:H	1:G:137:VAL:HG13	7.43	0.44
1:G:232:LEU:H	1:G:264:TYR:HD2	1.87	0.44
1:G:36:ILE:HG12	1:G:58:TYR:CE1	3.58	0.44
1:H:169:LYS:HG3	1:H:170:GLN:H	1.83	0.44
1:H:399:ARG:HE	1:H:401:VAL:CG2	3.11	0.44
1:H:482:PHE:HE2	1:H:561:LEU:CD1	2.30	0.44
1:H:57:HIS:O	1:H:99:LEU:HD11	2.17	0.44
1:H:654:LEU:HD13	1:I:662:ILE:CD1	2.47	0.44
1:I:132:LYS:HZ2	1:I:152:ILE:CD1	2.85	0.44
1:I:398:VAL:HG12	1:I:491:PRO:HB3	2.67	0.44
1:I:666:THR:CG2	1:I:667:ASN:N	2.80	0.44
1:I:758:GLU:O	1:I:762:VAL:HG23	2.39	0.44
1:J:268:LEU:HD13	1:J:269:GLY:N	2.48	0.44
1:J:15:TYR:O	1:J:34:THR:OG1	2.35	0.44
1:J:3:THR:HG22	1:J:50:MET:HE2	1.98	0.44
1:J:733:ALA:HA	1:J:736:GLU:HB2	2.07	0.44
1:J:767:GLU:O	1:J:771:ILE:HG12	2.65	0.44
1:K:388:ILE:HD13	1:K:388:ILE:H	1.81	0.44
1:K:523:PHE:CD1	1:K:568:VAL:HG12	2.52	0.44
1:K:31:GLY:H	1:K:84:ARG:NH1	2.14	0.44
1:L:279:ARG:HA	1:L:323:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:496:THR:CG2	1:L:496:THR:O	2.77	0.44
1:L:692:LYS:HG2	1:L:696:GLN:NE2	2.31	0.44
1:L:766:ARG:CG	1:M:772:TYR:CD1	3.11	0.44
1:L:777:LEU:O	1:L:780:GLU:HB2	2.22	0.44
1:M:465:ASN:HB3	1:M:519:GLY:HA3	1.99	0.44
1:M:533:ASP:O	1:M:534:HIS:HB2	2.42	0.44
1:M:597:ARG:HG3	1:M:600:ARG:HH21	1.81	0.44
1:L:49:ARG:NH2	1:M:8:ILE:HD12	2.32	0.44
1:N:13:TYR:HB3	1:N:54:PRO:O	2.17	0.44
1:N:523:PHE:CD1	1:N:568:VAL:HG12	2.52	0.44
1:O:43:VAL:HG12	1:O:45:PHE:O	2.16	0.44
1:Q:36:ILE:O	1:Q:37:ARG:HG3	2.16	0.44
1:R:395:THR:C	1:R:397:LYS:H	2.20	0.44
1:R:418:GLU:OE2	1:R:452:ARG:NH1	2.51	0.44
1:R:734:ARG:HG2	1:S:742:LEU:HD12	1.98	0.44
1:S:235:PHE:CE1	1:S:264:TYR:CE1	3.06	0.44
1:T:122:HIS:CG	1:T:159:VAL:HB	2.52	0.44
1:T:229:LEU:O	1:T:248:GLU:HA	2.18	0.44
1:T:296:LEU:HD22	1:T:296:LEU:N	2.31	0.44
1:U:337:LEU:HD12	1:U:371:VAL:HA	1.98	0.44
1:U:8:ILE:HA	1:U:40:ASN:HD22	1.82	0.44
1:V:20:ASP:HB2	1:V:49:ARG:HD3	1.99	0.44
1:V:481:VAL:O	1:V:481:VAL:HG13	2.18	0.44
1:V:719:THR:O	1:V:723:LYS:HB2	2.17	0.44
1:U:777:LEU:CD1	1:V:783:LYS:HB2	2.47	0.44
1:W:100:TYR:HB3	1:W:101:PRO:HD2	1.99	0.44
1:W:311:GLN:HB2	1:W:314:GLU:CG	2.47	0.44
1:W:543:TYR:HD2	1:W:638:VAL:HG22	1.82	0.44
1:W:61:VAL:HG13	1:W:65:VAL:HG23	1.99	0.44
1:W:708:GLU:HG3	1:X:716:VAL:CG1	2.47	0.44
1:X:74:LEU:HD22	1:X:100:TYR:HE2	1.81	0.44
1:X:252:THR:OG1	1:X:253:VAL:N	2.50	0.44
1:X:6:ALA:HA	1:X:41:GLU:O	2.17	0.44
1:Y:533:ASP:OD1	1:Y:533:ASP:N	2.51	0.44
1:Y:36:ILE:CG2	1:Y:99:LEU:HB2	2.46	0.44
1:A:220:ILE:C	1:A:222:THR:N	2.95	0.44
1:A:380:ILE:HD11	1:A:388:ILE:HD13	1.99	0.44
1:A:76:ASP:HB3	1:A:80:GLN:O	2.16	0.44
1:B:109:ILE:CD1	1:B:153:PRO:HB2	2.78	0.44
1:B:16:ILE:CD1	1:B:34:THR:HG21	2.48	0.44
1:B:530:GLU:HA	1:B:535:ALA:O	2.17	0.44
1:B:36:ILE:CD1	1:B:58:TYR:HE1	2.30	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:591:PHE:HE2	1:B:599:ILE:CD1	2.30	0.44
1:C:9:ARG:CZ	1:C:15:TYR:HB3	2.48	0.44
1:C:549:LEU:HD12	1:C:552:ARG:HA	1.98	0.44
1:E:308:PHE:HA	1:E:308:PHE:HD1	1.71	0.44
1:E:331:GLY:O	1:E:360:ARG:HB2	2.44	0.44
1:E:557:GLU:HA	1:E:560:LYS:HB2	1.99	0.44
1:F:383:ASP:H	1:F:386:GLU:HG2	1.82	0.44
1:E:808:ARG:NH2	1:F:806:THR:HA	2.33	0.44
1:G:115:VAL:HB	1:G:148:PRO:HA	2.28	0.44
1:G:234:ASN:HA	1:G:243:HIS:O	2.17	0.44
1:G:268:LEU:HD13	1:G:269:GLY:N	2.43	0.44
1:G:523:PHE:CD1	1:G:545:TRP:NE1	2.96	0.44
1:G:67:ARG:HE	1:G:107:LYS:C	2.48	0.44
1:H:276:LEU:O	1:H:277:GLY:C	2.54	0.44
1:I:114:VAL:HA	1:I:118:ASN:HD21	2.15	0.44
1:I:173:ALA:HB1	1:I:198:VAL:O	2.17	0.44
1:I:355:ASP:HA	1:J:328:GLU:HB2	1.99	0.44
1:I:36:ILE:CD1	1:I:36:ILE:O	2.52	0.44
1:I:653:ALA:HB1	1:J:662:ILE:HD12	2.29	0.44
1:I:339:PRO:HG3	1:J:278:PRO:HB3	1.99	0.44
1:J:495:PHE:CB	1:J:514:LEU:HD11	2.40	0.44
1:J:55:PRO:O	1:J:56:ARG:HG2	2.30	0.44
1:K:241:VAL:O	1:K:243:HIS:ND1	2.51	0.44
1:K:227:LEU:HB2	1:K:251:VAL:HG13	2.14	0.44
1:K:251:VAL:HG22	1:K:254:GLN:HE21	1.82	0.44
1:K:11:PRO:CA	1:K:38:GLN:HA	2.43	0.44
1:K:535:ALA:HA	1:L:658:VAL:HG21	2.00	0.44
1:K:551:ASN:HB3	1:K:554:ASP:HB2	2.91	0.44
1:K:90:ILE:HD12	1:K:154:GLN:CB	5.36	0.44
1:L:252:THR:O	1:L:253:VAL:C	2.57	0.44
1:K:573:LYS:HE3	1:L:522:PHE:CZ	2.80	0.44
1:L:777:LEU:HD11	1:M:783:LYS:HA	2.14	0.44
1:M:165:ALA:HB3	1:M:174:LEU:HD11	1.99	0.44
1:M:191:VAL:HG12	1:M:194:GLU:HB2	1.97	0.44
1:M:287:PRO:O	1:M:295:GLN:HB2	2.16	0.44
1:N:398:VAL:HG11	1:N:415:TRP:CD2	2.53	0.44
1:N:472:ASP:OD1	1:N:474:ARG:HD3	2.16	0.44
1:N:8:ILE:HG22	1:N:40:ASN:HD21	1.83	0.44
1:O:165:ALA:O	1:O:203:ALA:O	2.36	0.44
1:O:5:GLU:CG	1:O:43:VAL:HG21	2.47	0.44
1:P:176:LEU:O	1:P:196:TRP:HB2	2.16	0.44
1:P:382:LEU:H	1:P:405:THR:CG2	2.30	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:533:ASP:CG	1:P:588:PHE:H	2.20	0.44
1:Q:120:ALA:HB2	1:Q:164:GLN:NE2	2.32	0.44
1:Q:13:TYR:CD1	1:Q:13:TYR:N	2.85	0.44
1:Q:215:LEU:HG	1:Q:260:VAL:HG21	1.99	0.44
1:Q:327:SER:CA	1:Q:331:GLY:HA3	2.47	0.44
1:Q:803:GLY:HA3	1:Q:806:THR:HB	1.99	0.44
1:R:151:TYR:CD1	1:R:151:TYR:N	2.86	0.44
1:R:230:ARG:HH11	1:R:230:ARG:HB3	1.82	0.44
1:R:564:VAL:HG22	1:R:631:ASN:HB3	2.00	0.44
1:T:108:ASP:N	1:T:108:ASP:OD1	2.51	0.44
1:T:226:ALA:HB2	1:T:252:THR:HB	1.98	0.44
1:U:623:ARG:HG2	1:U:624:ASP:H	1.82	0.44
1:U:745:LYS:O	1:U:748:ALA:HB3	2.16	0.44
1:V:126:LEU:HB2	1:V:157:VAL:HG23	2.00	0.44
1:V:729:ARG:NH1	1:V:729:ARG:HB2	2.32	0.44
1:W:327:SER:H	1:W:331:GLY:HA3	1.83	0.44
1:W:529:ILE:HD12	1:W:583:VAL:HG21	1.99	0.44
1:X:599:ILE:C	1:X:601:MET:H	2.20	0.44
1:Y:337:LEU:HD21	1:Y:352:GLN:O	2.18	0.44
1:Y:533:ASP:OD1	1:Y:587:THR:HA	2.17	0.44
1:Z:272:PRO:HB3	1:Z:309:PHE:CE2	2.52	0.44
1:A:199:ARG:NH2	1:A:258:ALA:HB3	2.33	0.44
1:A:3:THR:HG22	1:A:50:MET:CE	2.48	0.44
1:A:70:GLN:HA	1:A:88:GLN:HG3	2.32	0.44
1:B:121:LEU:HD12	1:B:145:PHE:CD2	2.47	0.44
1:B:481:VAL:HG13	1:B:481:VAL:O	2.16	0.44
1:B:508:PRO:O	1:B:509:HIS:CD2	2.66	0.44
1:C:123:LEU:HD11	1:C:143:TRP:HD1	2.04	0.44
1:C:339:PRO:HG3	1:D:278:PRO:HB3	2.00	0.44
1:C:5:GLU:O	1:C:41:GLU:O	2.36	0.44
1:D:177:ARG:HH11	1:D:177:ARG:HB2	1.83	0.44
1:D:228:HIS:NE2	1:D:312:PRO:HB3	2.45	0.44
1:E:245:THR:OG1	1:F:170:GLN:OE1	2.75	0.44
1:E:335:LYS:HE2	1:E:371:VAL:HG11	2.08	0.44
1:F:125:ALA:HB1	1:F:128:ASP:HB3	1.99	0.44
1:F:273:ILE:HD11	1:F:308:PHE:HD2	2.67	0.44
1:E:715:ALA:HA	1:F:724:ALA:HB1	2.05	0.44
1:G:176:LEU:HD23	1:G:211:GLU:HA	2.00	0.44
1:G:333:LEU:HB2	1:G:359:ILE:HD11	2.00	0.44
1:H:502:ALA:HB2	1:H:511:ARG:HB3	2.55	0.44
1:I:337:LEU:HD23	1:I:337:LEU:H	2.08	0.44
1:I:14:HIS:CB	1:I:56:ARG:HB2	2.78	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:73:VAL:HG21	1:I:82:ARG:HB2	1.99	0.44
1:J:164:GLN:CD	1:J:204:TYR:HB2	2.75	0.44
1:J:354:GLY:O	1:J:356:CYS:N	2.50	0.44
1:J:402:ILE:HG23	1:J:457:VAL:HG21	1.99	0.44
1:K:206:PRO:HD2	1:K:209:PHE:CD1	2.62	0.44
1:K:165:ALA:HB2	1:K:211:GLU:OE2	2.18	0.44
1:K:568:VAL:HG23	1:K:569:GLY:N	2.32	0.44
1:K:57:HIS:O	1:K:99:LEU:HD11	2.17	0.44
1:K:594:ASN:HB2	1:K:598:ILE:HD11	1.99	0.44
1:K:794:LYS:O	1:K:798:MET:HG2	2.17	0.44
1:L:130:GLU:CA	1:L:137:VAL:H	2.98	0.44
1:L:275:THR:O	1:L:305:GLU:HA	2.18	0.44
1:L:425:GLU:HB2	1:L:514:LEU:HD22	1.98	0.44
1:L:529:ILE:HD12	1:L:537:LEU:HB2	3.77	0.44
1:L:5:GLU:HA	1:L:7:ILE:CD1	3.86	0.44
1:M:329:GLN:NE2	1:M:330:GLN:HG2	2.32	0.44
1:M:67:ARG:NE	1:M:108:ASP:HB3	2.33	0.44
1:M:245:THR:OG1	1:N:170:GLN:OE1	2.35	0.44
1:O:197:LEU:HD22	1:O:197:LEU:HA	1.90	0.44
1:O:273:ILE:HG13	1:O:308:PHE:HB3	2.00	0.44
1:O:325:VAL:HA	1:O:364:GLU:HA	2.00	0.44
1:O:356:CYS:HA	1:O:357:TRP:HE3	1.82	0.44
1:P:244:ARG:HD2	1:Q:221:LEU:HD21	1.99	0.44
1:P:3:THR:HG22	1:P:50:MET:CE	2.48	0.44
1:P:55:PRO:O	1:P:56:ARG:HG2	2.16	0.44
1:T:235:PHE:CE1	1:T:264:TYR:CE1	3.06	0.44
1:T:426:LEU:C	1:T:428:ASN:H	2.20	0.44
1:T:472:ASP:HA	1:T:493:GLU:CB	2.48	0.44
1:U:226:ALA:O	1:U:269:GLY:HA2	2.18	0.44
1:W:159:VAL:O	1:W:160:VAL:HG13	2.16	0.44
1:W:383:ASP:H	1:W:386:GLU:HG2	1.83	0.44
1:Y:123:LEU:CD1	1:Y:143:TRP:HB2	2.47	0.44
1:Y:16:ILE:HB	1:Y:51:VAL:HB	1.99	0.44
1:Y:60:ILE:HD13	1:Y:60:ILE:N	2.32	0.44
1:Z:183:PHE:CD2	1:Z:190:ARG:HD3	2.52	0.44
1:A:296:LEU:H	1:A:296:LEU:HD13	1.83	0.44
1:A:326:LEU:CD2	1:A:333:LEU:HG	2.47	0.44
1:B:122:HIS:HB3	1:B:159:VAL:HB	2.00	0.44
1:B:594:ASN:O	1:B:595:SER:C	2.69	0.44
1:B:70:GLN:HE21	1:B:104:VAL:HG12	1.82	0.44
1:C:523:PHE:CD1	1:C:568:VAL:HG12	2.54	0.44
1:C:61:VAL:HG13	1:C:65:VAL:HB	2.69	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:100:TYR:CB	1:D:101:PRO:CD	3.03	0.44
1:D:286:ASP:N	1:D:287:PRO:HD3	2.33	0.44
1:D:335:LYS:HZ3	1:D:335:LYS:HB2	2.22	0.44
1:D:340:LEU:HD23	1:D:352:GLN:CA	2.68	0.44
1:D:627:VAL:HG13	1:D:634:VAL:HG22	2.00	0.44
1:C:649:ARG:HH21	1:D:655:GLN:HG2	2.11	0.44
1:C:755:THR:HG21	1:D:761:ARG:HG2	2.00	0.44
1:E:327:SER:O	1:E:328:GLU:CB	2.65	0.44
1:E:30:VAL:HG22	1:E:74:LEU:CG	2.48	0.44
1:F:332:LEU:HG	1:F:360:ARG:HD3	2.45	0.44
1:F:380:ILE:O	1:F:380:ILE:HD12	2.17	0.44
1:G:279:ARG:O	1:G:323:VAL:N	2.55	0.44
1:G:381:PRO:HA	1:G:405:THR:HB	1.98	0.44
1:H:121:LEU:HD12	1:H:145:PHE:HD2	1.83	0.44
1:H:251:VAL:CG2	1:H:254:GLN:NE2	3.00	0.44
1:H:279:ARG:HG3	1:H:280:HIS:HD2	2.13	0.44
1:I:130:GLU:HA	1:I:137:VAL:HG13	1.99	0.44
1:H:245:THR:OG1	1:I:170:GLN:OE1	2.36	0.44
1:I:171:ASN:O	1:I:216:VAL:HA	2.24	0.44
1:I:777:LEU:HD11	1:J:783:LYS:HA	1.99	0.44
1:J:17:HIS:CD2	1:J:18:VAL:HG22	2.52	0.44
1:J:166:THR:HA	1:J:202:GLY:HA2	1.99	0.44
1:J:29:GLU:O	1:J:84:ARG:HD3	2.27	0.44
1:K:113:GLN:CD	1:K:150:THR:H	2.74	0.44
1:K:123:LEU:CG	1:K:143:TRP:HB2	2.47	0.44
1:K:28:VAL:HG12	1:K:30:VAL:CG2	2.40	0.44
1:K:549:LEU:HG	1:K:561:LEU:HD11	2.42	0.44
1:L:154:GLN:HG3	1:L:155:LYS:NZ	2.40	0.44
1:L:190:ARG:HG3	1:L:190:ARG:O	2.16	0.44
1:L:164:GLN:HB3	1:L:204:TYR:HA	1.98	0.44
1:L:338:GLN:CB	1:L:339:PRO:CD	2.99	0.44
1:L:777:LEU:HD22	1:M:779:LEU:HD13	2.83	0.44
1:M:275:THR:O	1:M:305:GLU:HA	2.18	0.44
1:M:284:ILE:HG22	1:M:316:LEU:HD23	2.36	0.44
1:M:653:ALA:HB3	1:N:662:ILE:CD1	2.46	0.44
1:N:17:HIS:CD2	1:N:18:VAL:HG22	2.53	0.44
1:N:234:ASN:O	1:N:235:PHE:HB3	2.17	0.44
1:N:239:ARG:NH2	1:N:257:GLU:HG2	2.32	0.44
1:O:568:VAL:HG23	1:O:569:GLY:H	1.81	0.44
1:O:660:LEU:HA	1:O:663:GLU:HB2	2.00	0.44
1:P:332:LEU:CD2	1:P:407:MET:HB2	2.41	0.44
1:P:481:VAL:O	1:P:481:VAL:HG13	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:516:LEU:HB2	1:P:562:PHE:CE2	2.53	0.44
1:P:72:SER:HB3	1:P:84:ARG:HH21	1.82	0.44
1:Q:15:TYR:CE2	1:Q:17:HIS:HB3	2.53	0.44
1:Q:221:LEU:CD2	1:Q:256:THR:CG2	2.92	0.44
1:R:14:HIS:ND1	1:R:36:ILE:CG2	2.77	0.44
1:S:13:TYR:CD1	1:S:13:TYR:N	2.85	0.44
1:S:184:ASP:HB3	1:S:187:GLY:O	2.18	0.44
1:S:725:GLU:O	1:S:728:SER:HB3	2.18	0.44
1:U:100:TYR:HB3	1:U:101:PRO:HD2	2.00	0.44
1:U:221:LEU:HD21	1:U:256:THR:CG2	2.48	0.44
1:U:283:VAL:HB	1:U:317:GLU:HB3	1.98	0.44
1:U:759:LEU:HD21	1:V:765:VAL:HG23	2.00	0.44
1:V:183:PHE:HD2	1:V:184:ASP:N	2.13	0.44
1:V:18:VAL:O	1:V:32:PRO:HB3	2.17	0.44
1:V:326:LEU:CD2	1:V:333:LEU:HG	2.47	0.44
1:W:268:LEU:HD13	1:W:269:GLY:N	2.32	0.44
1:X:231:ALA:HB1	1:X:235:PHE:HE2	1.81	0.44
1:X:497:VAL:HG12	1:X:498:LEU:N	2.32	0.44
1:Y:128:ASP:OD1	1:Y:131:ASP:HB3	2.18	0.44
1:Y:276:LEU:O	1:Y:277:GLY:C	2.56	0.44
1:Z:144:LEU:HD12	1:Z:144:LEU:H	1.83	0.44
1:Z:327:SER:O	1:Z:328:GLU:C	2.56	0.44
1:A:281:TYR:O	1:A:282:CYS:HB3	2.53	0.44
1:A:64:PRO:HD3	1:Z:127:LEU:HB3	314.58	0.44
1:B:324:TYR:O	1:B:364:GLU:HA	2.51	0.44
1:B:517:LEU:O	1:B:545:TRP:CH2	2.68	0.44
1:B:558:ALA:O	1:B:561:LEU:HB2	2.39	0.44
1:B:30:VAL:HG22	1:B:74:LEU:CG	2.48	0.44
1:B:771:ILE:HD13	1:B:774:ARG:HH11	2.06	0.44
1:C:383:ASP:OD1	1:C:383:ASP:N	2.77	0.44
1:C:799:THR:HG21	1:D:801:ALA:HB1	2.00	0.44
1:D:128:ASP:HB2	1:D:155:LYS:O	2.53	0.44
1:C:473:TYR:HD2	1:D:486:LEU:HB3	1.82	0.44
1:D:490:ASP:N	1:D:493:GLU:HG2	2.55	0.44
1:D:61:VAL:HG13	1:D:65:VAL:CG2	2.48	0.44
1:D:737:GLY:HA3	1:E:746:LEU:HD13	3.02	0.44
1:C:777:LEU:HD11	1:D:783:LYS:HB2	2.05	0.44
1:E:397:LYS:HA	1:F:384:GLN:OE1	2.17	0.44
1:E:7:ILE:HD13	1:E:41:GLU:OE1	4.31	0.44
1:F:69:THR:O	1:F:89:GLU:N	2.48	0.44
1:G:115:VAL:O	1:G:118:ASN:CB	2.81	0.44
1:G:11:PRO:HB2	1:G:12:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:554:ASP:OD1	1:G:557:GLU:HB2	2.51	0.44
1:G:53:VAL:HG11	1:G:56:ARG:HG3	1.98	0.44
1:F:697:SER:CA	1:G:706:LEU:HD23	2.46	0.44
1:H:236:ARG:HH11	1:H:236:ARG:HB3	1.82	0.44
1:H:244:ARG:N	1:H:247:GLU:OE1	2.64	0.44
1:H:220:ILE:O	1:H:253:VAL:HG22	2.27	0.44
1:H:567:PHE:HD2	1:H:633:LEU:CD1	2.31	0.44
1:H:729:ARG:HB2	1:H:729:ARG:CZ	2.81	0.44
1:H:813:ALA:O	1:H:815:PRO:HD3	2.17	0.44
1:I:283:VAL:HG22	1:I:301:VAL:HG12	2.10	0.44
1:I:286:ASP:N	1:I:287:PRO:HD3	2.33	0.44
1:J:72:SER:OG	1:J:102:GLY:O	2.48	0.44
1:J:180:LYS:HD2	1:J:208:VAL:HG12	2.01	0.44
1:J:425:GLU:CD	1:J:425:GLU:H	2.33	0.44
1:J:523:PHE:CD1	1:J:568:VAL:HG12	2.54	0.44
1:J:574:ALA:O	1:J:578:ARG:HG3	2.45	0.44
1:K:260:VAL:N	1:K:261:PRO:HD3	2.33	0.44
1:K:273:ILE:HD13	1:K:316:LEU:HD21	1.98	0.44
1:K:419:LEU:CD1	1:K:494:GLN:NE2	2.81	0.44
1:K:741:VAL:HG22	1:L:750:ALA:HB2	1.99	0.44
1:L:14:HIS:HB2	1:L:56:ARG:CB	2.48	0.44
1:L:174:LEU:O	1:L:197:LEU:HA	2.22	0.44
1:L:165:ALA:HB2	1:L:211:GLU:OE2	2.17	0.44
1:L:36:ILE:HG21	1:L:99:LEU:H	2.88	0.44
1:L:396:GLY:CA	1:M:405:THR:HG23	2.47	0.44
1:L:522:PHE:CD2	1:L:522:PHE:C	2.96	0.44
1:L:794:LYS:O	1:L:798:MET:HG3	2.55	0.44
1:M:255:ASP:OD2	1:M:257:GLU:HB3	2.18	0.44
1:M:287:PRO:HG3	1:M:300:ARG:HB2	1.99	0.44
1:M:633:LEU:HD23	1:M:634:VAL:N	2.43	0.44
1:M:90:ILE:HD12	1:M:154:GLN:CG	5.70	0.44
1:N:182:CYS:SG	1:N:208:VAL:CB	3.03	0.44
1:N:189:GLY:O	1:N:196:TRP:HZ2	1.99	0.44
1:O:623:ARG:HG3	1:O:624:ASP:H	1.83	0.44
1:O:62:ALA:O	1:O:93:ALA:HB2	2.18	0.44
1:P:415:TRP:CH2	1:P:417:LYS:HB3	2.52	0.44
1:P:542:ALA:HB3	1:P:639:ASP:HB2	1.99	0.44
1:O:715:ALA:HA	1:P:724:ALA:HB1	2.00	0.44
1:Q:334:LEU:HD23	1:Q:357:TRP:O	2.18	0.44
1:Q:55:PRO:O	1:Q:56:ARG:HG2	2.17	0.44
1:Q:746:LEU:HD23	1:Q:749:GLN:NE2	2.32	0.44
1:R:65:VAL:N	1:R:111:PRO:HD2	2.33	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:117:PRO:O	1:R:118:ASN:C	2.56	0.44
1:R:165:ALA:HB3	1:R:174:LEU:HD11	1.98	0.44
1:R:554:ASP:HA	1:R:555:PRO:HD3	1.78	0.44
1:S:217:ASP:HB2	1:S:258:ALA:HA	1.99	0.44
1:S:322:ASP:OD1	1:S:322:ASP:N	2.49	0.44
1:S:69:THR:HA	1:S:106:GLU:HB3	2.00	0.44
1:T:217:ASP:HB2	1:T:258:ALA:HA	2.00	0.44
1:T:276:LEU:HB2	1:T:280:HIS:CG	2.53	0.44
1:U:266:GLU:H	1:U:266:GLU:HG3	1.59	0.44
1:U:536:ARG:HB2	1:U:646:VAL:HB	1.99	0.44
1:U:796:LYS:HA	1:U:799:THR:CG2	2.42	0.44
1:V:343:GLY:HA2	1:V:348:LYS:C	2.38	0.44
1:V:707:LEU:HD22	1:W:717:GLU:HB2	1.99	0.44
1:W:169:LYS:HG3	1:W:170:GLN:H	1.83	0.44
1:W:389:TYR:CZ	1:W:457:VAL:HA	2.52	0.44
1:W:554:ASP:OD1	1:W:557:GLU:HB2	2.16	0.44
1:X:196:TRP:HE3	1:X:196:TRP:HA	1.79	0.44
1:X:249:TRP:CD1	1:X:249:TRP:N	2.85	0.44
1:X:291:ASP:C	1:X:293:LYS:N	2.71	0.44
1:X:330:GLN:HE22	1:X:360:ARG:HD2	1.83	0.44
1:W:649:ARG:HH21	1:X:655:GLN:HG2	1.83	0.44
1:Y:352:GLN:O	1:Y:355:ASP:HB3	2.18	0.44
1:Y:391:GLN:HB2	1:Y:398:VAL:HG22	1.99	0.44
1:Y:596:ALA:O	1:Y:600:ARG:HB2	2.17	0.44
1:Z:284:ILE:HD11	1:Z:300:ARG:HB3	2.00	0.44
1:Z:273:ILE:HG13	1:Z:308:PHE:HB3	1.99	0.44
1:A:328:GLU:HG3	1:Z:354:GLY:C	302.53	0.44
1:Z:516:LEU:HD21	1:Z:567:PHE:CE1	2.52	0.44
1:A:759:LEU:HD21	1:B:765:VAL:HG22	2.08	0.44
1:B:363:LEU:HD13	1:B:364:GLU:H	2.03	0.44
1:C:777:LEU:HD11	1:D:783:LYS:CB	2.47	0.44
1:D:288:MET:HB3	1:D:294:ASN:HA	1.99	0.44
1:E:474:ARG:HG2	1:E:492:GLU:HB2	2.00	0.44
1:F:330:GLN:HG3	1:F:379:ALA:HB3	2.42	0.44
1:G:234:ASN:O	1:G:235:PHE:HB3	2.30	0.44
1:G:382:LEU:HD11	1:G:388:ILE:HD12	3.83	0.44
1:G:805:GLY:HA2	1:G:808:ARG:HD2	3.35	0.44
1:H:227:LEU:HD13	1:H:229:LEU:HD21	2.00	0.44
1:H:285:LEU:HD23	1:H:299:LYS:HB3	2.00	0.44
1:H:517:LEU:O	1:H:545:TRP:CH2	2.69	0.44
1:H:551:ASN:HB3	1:H:554:ASP:CB	3.12	0.44
1:H:537:LEU:HD23	1:H:645:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:535:ALA:HA	1:H:658:VAL:HG21	1.99	0.44
1:I:394:LYS:HA	1:J:329:GLN:HE21	3.76	0.44
1:J:135:ASP:OD1	1:J:136:LYS:N	3.61	0.44
1:J:177:ARG:H	1:J:212:VAL:CG2	2.86	0.44
1:J:338:GLN:CB	1:J:339:PRO:CD	3.03	0.44
1:K:183:PHE:CE2	1:K:188:LYS:HA	2.53	0.44
1:L:283:VAL:HG22	1:L:301:VAL:HG12	2.00	0.44
1:K:649:ARG:NH2	1:L:655:GLN:HG2	2.33	0.44
1:M:221:LEU:HD13	1:M:256:THR:CB	2.39	0.44
1:L:394:LYS:HA	1:M:329:GLN:NE2	2.38	0.44
1:M:506:LYS:HA	1:M:506:LYS:HD3	1.86	0.44
1:N:185:ARG:HG3	1:N:206:PRO:CB	2.48	0.44
1:N:208:VAL:HG23	1:N:209:PHE:HD2	1.82	0.44
1:N:354:GLY:O	1:N:356:CYS:N	2.51	0.44
1:P:185:ARG:HH22	1:P:207:ALA:CB	2.13	0.44
1:P:235:PHE:CE1	1:P:237:ASP:HA	2.52	0.44
1:P:251:VAL:HA	1:P:254:GLN:NE2	2.31	0.44
1:P:341:GLU:O	1:P:341:GLU:OE1	2.35	0.44
1:Q:242:LEU:H	1:Q:242:LEU:HD23	1.82	0.44
1:Q:408:LEU:CD1	1:Q:408:LEU:H	2.28	0.44
1:Q:63:ASN:N	1:Q:64:PRO:HD2	2.33	0.44
1:Q:92:LEU:HB2	1:Q:94:GLN:HG2	1.99	0.44
1:S:130:GLU:HA	1:S:137:VAL:H	1.82	0.44
1:T:358:LEU:HD13	1:T:377:ARG:HH11	1.81	0.44
1:U:109:ILE:O	1:U:109:ILE:HG13	2.17	0.44
1:U:352:GLN:O	1:U:353:ALA:C	2.56	0.44
1:V:119:THR:HG23	1:V:163:ILE:HG23	2.00	0.44
1:V:273:ILE:HD13	1:V:316:LEU:HD21	2.00	0.44
1:V:777:LEU:HD22	1:W:779:LEU:HD13	1.98	0.44
1:W:390:VAL:CG1	1:W:408:LEU:HD23	2.46	0.44
1:W:481:VAL:HG11	1:W:487:VAL:HG13	1.99	0.44
1:X:113:GLN:OE1	1:X:149:GLY:HA2	2.18	0.44
1:X:182:CYS:SG	1:X:208:VAL:CB	3.05	0.44
1:X:426:LEU:C	1:X:428:ASN:H	2.19	0.44
1:X:758:GLU:O	1:X:761:ARG:HB2	2.17	0.44
1:Y:177:ARG:NH1	1:Y:195:GLU:OE2	2.50	0.44
1:X:719:THR:HG22	1:Y:728:SER:HA	1.99	0.44
1:Z:459:SER:CB	1:Z:488:THR:HG22	2.37	0.44
1:A:176:LEU:HA	1:A:210:GLU:O	2.18	0.44
1:A:227:LEU:HD13	1:A:229:LEU:HD21	2.92	0.44
1:A:8:ILE:HG13	1:A:8:ILE:H	1.64	0.44
1:B:13:TYR:N	1:B:13:TYR:CD1	2.89	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:251:VAL:CG2	1:B:254:GLN:NE2	2.80	0.44
1:B:260:VAL:O	1:B:262:ASP:N	2.63	0.44
1:A:49:ARG:CZ	1:B:8:ILE:CD1	4.38	0.44
1:C:100:TYR:CB	1:C:101:PRO:CD	2.96	0.44
1:C:122:HIS:HB3	1:C:159:VAL:HB	2.02	0.44
1:C:145:PHE:HE2	1:C:150:THR:HA	1.83	0.44
1:C:395:THR:HB	1:C:397:LYS:H	1.88	0.44
1:C:399:ARG:HG2	1:C:399:ARG:NH1	2.65	0.44
1:D:65:VAL:CG1	1:D:110:THR:HG22	2.71	0.44
1:D:273:ILE:CD1	1:D:308:PHE:HB3	3.25	0.44
1:D:325:VAL:HG22	1:D:328:GLU:OE2	2.17	0.44
1:D:452:ARG:NH1	1:D:454:LYS:HA	2.38	0.44
1:D:527:ILE:HD12	1:D:528:THR:N	2.32	0.44
1:E:127:LEU:HB3	1:F:64:PRO:HD3	2.05	0.44
1:E:467:ALA:HB2	1:E:518:LEU:HD21	1.99	0.44
1:E:60:ILE:CD1	1:E:60:ILE:H	2.36	0.44
1:F:398:VAL:HG11	1:F:415:TRP:CE3	2.62	0.44
1:G:150:THR:HG23	1:G:151:TYR:N	2.61	0.44
1:H:266:GLU:HG3	1:H:266:GLU:H	1.60	0.44
1:H:327:SER:H	1:H:331:GLY:HA3	1.94	0.44
1:I:14:HIS:O	1:I:53:VAL:O	2.63	0.44
1:I:175:ARG:HA	1:I:196:TRP:O	2.20	0.44
1:I:20:ASP:HB2	1:I:49:ARG:HD3	1.99	0.44
1:J:36:ILE:HD12	1:J:58:TYR:CE1	2.52	0.44
1:J:90:ILE:HG12	1:J:154:GLN:HB3	2.00	0.44
1:K:154:GLN:HG2	1:K:155:LYS:HE3	2.00	0.44
1:K:808:ARG:NH1	1:L:806:THR:OG1	3.50	0.44
1:L:130:GLU:HA	1:L:137:VAL:HG13	1.99	0.44
1:L:285:LEU:HB2	1:L:315:ARG:HG2	1.99	0.44
1:L:36:ILE:HD12	1:L:98:PRO:CB	2.81	0.44
1:L:468:VAL:HG13	1:L:514:LEU:O	3.21	0.44
1:L:517:LEU:O	1:L:545:TRP:CH2	2.66	0.44
1:L:649:ARG:NH2	1:M:655:GLN:HG2	2.34	0.44
1:K:745:LYS:HG3	1:L:753:ILE:HD13	2.00	0.44
1:M:183:PHE:HA	1:M:190:ARG:CB	2.47	0.44
1:M:215:LEU:HB3	1:M:259:HIS:NE2	2.56	0.44
1:M:220:ILE:HD13	1:M:252:THR:HA	3.44	0.44
1:M:299:LYS:HE2	1:M:299:LYS:HB3	1.82	0.44
1:M:336:ALA:HA	1:M:356:CYS:HB2	2.00	0.44
1:M:417:LYS:CE	1:M:491:PRO:O	2.66	0.44
1:M:500:LEU:HA	1:M:566:ASP:OD1	2.18	0.44
1:N:273:ILE:CD1	1:N:308:PHE:HB3	2.48	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:338:GLN:HB2	1:N:339:PRO:CD	2.32	0.44
1:N:640:VAL:HG13	1:N:640:VAL:O	2.18	0.44
1:N:808:ARG:O	1:N:812:VAL:HG23	2.18	0.44
1:O:730:ALA:O	1:O:734:ARG:HB2	2.18	0.44
1:P:252:THR:OG1	1:P:252:THR:O	2.23	0.44
1:P:8:ILE:HG22	1:P:40:ASN:ND2	2.33	0.44
1:P:49:ARG:HH12	1:Q:8:ILE:HD13	1.82	0.44
1:P:758:GLU:O	1:P:762:VAL:HG23	2.17	0.44
1:Q:13:TYR:HD1	1:Q:13:TYR:N	2.16	0.44
1:R:206:PRO:HD2	1:R:209:PHE:CD1	2.52	0.44
1:R:531:THR:OG1	1:R:535:ALA:HB3	2.18	0.44
1:R:802:LEU:HD12	1:R:806:THR:CG2	2.48	0.44
1:R:58:TYR:CD1	1:R:98:PRO:HA	2.52	0.44
1:S:338:GLN:CB	1:S:339:PRO:CD	2.90	0.44
1:S:11:PRO:CA	1:S:38:GLN:HA	2.38	0.44
1:S:421:SER:O	1:S:425:GLU:OE2	2.35	0.44
1:S:421:SER:O	1:S:423:VAL:N	2.50	0.44
1:T:123:LEU:HD11	1:T:143:TRP:HD1	1.83	0.44
1:T:490:ASP:N	1:T:493:GLU:HG2	2.33	0.44
1:T:527:ILE:H	1:T:527:ILE:CD1	2.29	0.44
1:U:392:ASP:O	1:U:396:GLY:N	2.47	0.44
1:X:276:LEU:N	1:X:280:HIS:HB2	2.33	0.44
1:Y:5:GLU:O	1:Y:41:GLU:O	2.36	0.44
1:Z:703:ARG:HB2	1:Z:703:ARG:CZ	2.47	0.44
1:A:185:ARG:HG3	1:A:206:PRO:CB	2.71	0.44
1:A:177:ARG:H	1:A:212:VAL:CG2	2.61	0.44
1:A:255:ASP:OD2	1:A:257:GLU:HB3	2.56	0.44
1:A:3:THR:HG22	1:A:50:MET:HE1	2.09	0.44
1:B:401:VAL:HG11	1:B:406:TYR:CG	2.53	0.44
1:B:649:ARG:HA	1:B:652:ASP:HB2	1.99	0.44
1:C:18:VAL:HG13	1:C:48:VAL:CG2	2.35	0.44
1:C:284:ILE:CD1	1:C:300:ARG:HB3	2.87	0.44
1:B:393:VAL:O	1:C:405:THR:HG21	2.49	0.44
1:D:268:LEU:HD13	1:D:269:GLY:N	2.40	0.44
1:D:332:LEU:HG	1:D:360:ARG:HD3	2.00	0.44
1:D:399:ARG:NH1	1:D:399:ARG:HG2	2.62	0.44
1:D:658:VAL:HA	1:D:661:ALA:HB3	2.00	0.44
1:D:679:ARG:HG3	1:E:691:GLN:HE22	2.28	0.44
1:D:58:TYR:CG	1:D:98:PRO:HA	2.98	0.44
1:E:109:ILE:HG13	1:E:109:ILE:O	2.17	0.44
1:E:235:PHE:CE2	1:E:243:HIS:HB3	2.53	0.44
1:E:64:PRO:HA	1:E:111:PRO:CD	2.69	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:653:ALA:HA	1:E:656:ARG:NH2	2.33	0.44
1:E:766:ARG:O	1:E:770:LEU:HB2	2.32	0.44
1:F:213:LEU:CD1	1:F:214:ASP:H	3.17	0.44
1:F:481:VAL:O	1:F:481:VAL:HG13	2.18	0.44
1:F:490:ASP:O	1:F:491:PRO:C	2.57	0.44
1:F:606:PHE:HB2	1:F:622:ALA:HA	1.99	0.44
1:F:771:ILE:HA	1:F:774:ARG:NH1	2.32	0.44
1:G:273:ILE:HD11	1:G:308:PHE:CD2	2.61	0.44
1:G:7:ILE:O	1:G:41:GLU:HG2	2.60	0.44
1:I:551:ASN:HB3	1:I:554:ASP:HB2	2.54	0.44
1:J:10:ILE:HG23	1:J:11:PRO:HD2	2.09	0.44
1:J:796:LYS:CA	1:J:799:THR:HG22	2.59	0.44
1:K:388:ILE:HD13	1:K:390:VAL:HG13	3.85	0.44
1:K:734:ARG:HH21	1:K:735:ILE:HD13	1.82	0.44
1:L:226:ALA:O	1:L:269:GLY:HA2	2.18	0.44
1:L:389:TYR:CE2	1:L:457:VAL:HG22	2.96	0.44
1:L:579:VAL:HG13	1:L:599:ILE:HD12	1.99	0.44
1:M:332:LEU:CD2	1:M:407:MET:HB2	2.39	0.44
1:M:472:ASP:C	1:M:472:ASP:OD1	2.67	0.44
1:O:281:TYR:HB3	1:O:323:VAL:HG12	2.00	0.44
1:O:328:GLU:CA	1:O:328:GLU:OE2	2.63	0.44
1:P:599:ILE:C	1:P:601:MET:H	2.21	0.44
1:Q:234:ASN:O	1:Q:235:PHE:HB3	2.18	0.44
1:Q:329:GLN:OE1	1:Q:330:GLN:HB2	2.18	0.44
1:R:194:GLU:HG2	1:R:195:GLU:H	1.82	0.44
1:R:24:ASN:ND2	1:R:30:VAL:HB	2.32	0.44
1:R:398:VAL:HB	1:S:384:GLN:HE22	1.82	0.44
1:S:261:PRO:HD2	1:S:264:TYR:HD1	1.81	0.44
1:S:354:GLY:HA3	1:T:328:GLU:CG	2.45	0.44
1:R:476:LYS:HE2	1:S:485:GLU:HG3	2.00	0.44
1:S:93:ALA:C	1:S:95:ASP:H	2.20	0.44
1:T:165:ALA:HB1	1:T:174:LEU:HD11	2.00	0.44
1:T:194:GLU:HG2	1:T:195:GLU:N	2.30	0.44
1:T:20:ASP:HB2	1:T:49:ARG:HD3	2.00	0.44
1:S:296:LEU:HD21	1:T:307:SER:HB3	2.00	0.44
1:T:3:THR:CG2	1:T:50:MET:HE2	2.47	0.44
1:T:545:TRP:HB2	1:T:633:LEU:HD21	2.00	0.44
1:T:58:TYR:HD1	1:T:99:LEU:CD1	2.27	0.44
1:U:380:ILE:HA	1:U:381:PRO:HD3	1.92	0.44
1:V:709:LEU:HD23	1:V:712:MET:CE	2.48	0.44
1:W:333:LEU:HB2	1:W:359:ILE:CD1	2.48	0.44
1:W:398:VAL:N	1:X:384:GLN:OE1	2.45	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:677:ALA:HA	1:X:680:LEU:HD12	2.00	0.44
1:X:83:LEU:CD1	1:X:86:ALA:HB3	2.47	0.44
1:Y:38:GLN:H	1:Y:38:GLN:HG2	1.57	0.44
1:A:796:LYS:HA	1:A:799:THR:CG2	2.47	0.43
1:B:121:LEU:HB2	1:B:145:PHE:CB	2.46	0.43
1:B:128:ASP:OD1	1:B:131:ASP:HB3	2.18	0.43
1:B:132:LYS:HA	1:B:132:LYS:HD2	1.72	0.43
1:B:129:PHE:O	1:B:137:VAL:N	5.51	0.43
1:B:337:LEU:HG	1:B:354:GLY:H	1.83	0.43
1:B:335:LYS:HB3	1:B:372:GLU:O	2.18	0.43
1:C:286:ASP:OD1	1:C:296:LEU:O	2.71	0.43
1:C:296:LEU:N	1:C:296:LEU:HD22	2.44	0.43
1:C:603:VAL:HG21	1:C:638:VAL:HG21	2.12	0.43
1:C:676:GLU:OE1	1:C:676:GLU:CA	2.68	0.43
1:C:90:ILE:HD12	1:C:154:GLN:CB	2.47	0.43
1:D:311:GLN:O	1:D:314:GLU:HG3	2.18	0.43
1:D:336:ALA:HA	1:D:356:CYS:CB	2.57	0.43
1:D:465:ASN:HB3	1:D:519:GLY:HA3	2.23	0.43
1:E:13:TYR:HB3	1:E:54:PRO:O	2.61	0.43
1:E:182:CYS:SG	1:E:208:VAL:CB	3.24	0.43
1:E:208:VAL:HG23	1:E:209:PHE:HD2	1.82	0.43
1:E:234:ASN:ND2	1:E:244:ARG:HA	2.33	0.43
1:E:336:ALA:HA	1:E:356:CYS:HB2	2.30	0.43
1:E:15:TYR:O	1:E:34:THR:OG1	2.53	0.43
1:E:368:SER:HB3	1:E:371:VAL:HG23	2.00	0.43
1:E:416:GLU:HB2	1:E:454:LYS:HB3	2.02	0.43
1:E:503:GLY:HA3	1:E:507:ARG:HH12	2.21	0.43
1:D:573:LYS:HD3	1:E:641:GLN:OE1	2.55	0.43
1:F:270:VAL:HG13	1:F:270:VAL:O	2.46	0.43
1:F:591:PHE:O	1:F:595:SER:N	2.57	0.43
1:G:529:ILE:C	1:G:529:ILE:HD12	2.47	0.43
1:G:564:VAL:HG22	1:G:631:ASN:ND2	2.52	0.43
1:I:177:ARG:HB3	1:I:210:GLU:OE2	2.18	0.43
1:I:517:LEU:O	1:I:545:TRP:HH2	2.00	0.43
1:J:137:VAL:CG2	1:J:138:MET:N	2.81	0.43
1:J:209:PHE:N	1:J:209:PHE:CD2	3.05	0.43
1:J:327:SER:OG	1:J:331:GLY:HA3	2.18	0.43
1:J:331:GLY:O	1:J:360:ARG:HB2	2.31	0.43
1:J:385:ASN:HA	1:J:385:ASN:HD22	1.64	0.43
1:J:567:PHE:HB2	1:J:633:LEU:HD12	2.30	0.43
1:J:63:ASN:N	1:J:64:PRO:HD2	2.33	0.43
1:K:244:ARG:O	1:K:247:GLU:HB2	2.34	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:296:LEU:N	1:K:296:LEU:HD22	2.48	0.43
1:K:358:LEU:HD13	1:K:377:ARG:NH1	2.58	0.43
1:J:580:ARG:HH22	1:K:595:SER:HB2	1.83	0.43
1:K:564:VAL:HG22	1:K:631:ASN:ND2	2.33	0.43
1:L:279:ARG:O	1:L:322:ASP:HA	2.36	0.43
1:L:318:ARG:O	1:L:319:GLY:C	2.56	0.43
1:L:777:LEU:HD11	1:M:783:LYS:CB	2.93	0.43
1:L:58:TYR:HD1	1:L:99:LEU:HD12	1.82	0.43
1:M:116:LEU:HB3	1:M:117:PRO:HD3	2.60	0.43
1:M:326:LEU:HA	1:M:326:LEU:HD23	1.71	0.43
1:L:354:GLY:HA3	1:M:328:GLU:HG3	2.00	0.43
1:M:760:GLU:OE1	1:M:760:GLU:HA	2.18	0.43
1:N:100:TYR:CB	1:N:101:PRO:CD	2.94	0.43
1:N:14:HIS:O	1:N:53:VAL:O	2.36	0.43
1:N:234:ASN:HD22	1:N:234:ASN:N	2.15	0.43
1:N:462:VAL:HB	1:N:485:GLU:O	2.18	0.43
1:P:152:ILE:HD11	1:P:156:GLU:OE2	2.18	0.43
1:P:354:GLY:O	1:P:356:CYS:N	2.51	0.43
1:P:529:ILE:HD12	1:P:583:VAL:CG1	2.43	0.43
1:Q:479:ARG:NH1	1:Q:487:VAL:HG12	2.32	0.43
1:R:392:ASP:O	1:R:396:GLY:N	2.51	0.43
1:R:418:GLU:HG2	1:R:423:VAL:HG22	1.99	0.43
1:R:750:ALA:C	1:R:752:ALA:H	2.21	0.43
1:S:398:VAL:HG11	1:S:415:TRP:CE3	2.52	0.43
1:T:183:PHE:HA	1:T:190:ARG:HD3	2.01	0.43
1:T:30:VAL:CG1	1:T:33:LYS:HB3	2.48	0.43
1:T:327:SER:CA	1:T:331:GLY:HA3	2.47	0.43
1:U:474:ARG:HB3	1:U:492:GLU:HG3	2.00	0.43
1:V:252:THR:O	1:V:253:VAL:C	2.57	0.43
1:V:63:ASN:N	1:V:64:PRO:HD2	2.32	0.43
1:U:589:ASP:HB2	1:V:665:THR:HG21	1.99	0.43
1:W:230:ARG:HD3	1:W:248:GLU:HG2	2.00	0.43
1:W:250:LEU:HD23	1:W:250:LEU:H	1.82	0.43
1:W:283:VAL:HG22	1:W:301:VAL:HG12	2.00	0.43
1:X:175:ARG:HG3	1:X:215:LEU:HD23	1.99	0.43
1:X:276:LEU:O	1:X:277:GLY:C	2.56	0.43
1:W:476:LYS:HG3	1:X:485:GLU:HG3	1.99	0.43
1:Y:183:PHE:HD2	1:Y:184:ASP:H	1.66	0.43
1:Y:295:GLN:HG2	1:Y:298:GLN:NE2	2.33	0.43
1:X:573:LYS:HD2	1:Y:542:ALA:HB2	2.00	0.43
1:Z:213:LEU:HD13	1:Z:214:ASP:H	1.83	0.43
1:Z:328:GLU:HA	1:Z:362:PRO:HA	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:58:TYR:HD1	1:Z:99:LEU:CD1	2.27	0.43
1:A:144:LEU:H	1:A:144:LEU:HD12	2.21	0.43
1:A:175:ARG:HB2	1:A:213:LEU:O	2.25	0.43
1:A:43:VAL:CG1	1:A:45:PHE:O	2.63	0.43
1:B:164:GLN:HG2	1:B:164:GLN:H	1.78	0.43
1:B:18:VAL:HG13	1:B:48:VAL:CG2	2.34	0.43
1:B:217:ASP:OD1	1:B:218:ALA:N	2.50	0.43
1:B:273:ILE:HG23	1:B:310:LEU:HD11	2.01	0.43
1:B:591:PHE:HE2	1:B:599:ILE:HD11	1.82	0.43
1:C:90:ILE:HG23	1:C:154:GLN:HB2	2.00	0.43
1:C:452:ARG:NH2	1:C:458:VAL:HG22	2.85	0.43
1:C:490:ASP:O	1:C:491:PRO:C	2.68	0.43
1:C:68:ASP:OD1	1:C:106:GLU:HA	2.31	0.43
1:E:151:TYR:HD2	1:E:152:ILE:HD13	1.83	0.43
1:E:472:ASP:CA	1:E:493:GLU:HB3	2.52	0.43
1:F:284:ILE:HG12	1:F:287:PRO:HB3	2.42	0.43
1:F:296:LEU:HD13	1:F:296:LEU:H	1.84	0.43
1:F:63:ASN:N	1:F:64:PRO:HD2	2.34	0.43
1:G:128:ASP:OD1	1:G:131:ASP:HB3	2.31	0.43
1:G:360:ARG:NE	1:G:407:MET:HG2	2.43	0.43
1:G:398:VAL:HG11	1:G:415:TRP:CD2	2.55	0.43
1:H:164:GLN:OE1	1:H:205:LEU:HG	2.18	0.43
1:H:335:LYS:HD3	1:H:359:ILE:HD12	2.00	0.43
1:H:560:LYS:HD2	1:H:630:GLN:O	2.22	0.43
1:I:281:TYR:CD1	1:I:321:GLN:HB2	2.53	0.43
1:I:326:LEU:CD2	1:I:333:LEU:HG	2.49	0.43
1:I:358:LEU:HD13	1:I:377:ARG:HH11	1.83	0.43
1:I:393:VAL:HG23	1:I:411:ASP:O	2.76	0.43
1:I:387:GLY:O	1:I:456:ARG:HG3	2.18	0.43
1:I:5:GLU:O	1:I:41:GLU:O	2.35	0.43
1:I:807:ILE:HD13	1:J:806:THR:CG2	2.48	0.43
1:J:415:TRP:CH2	1:J:417:LYS:HB3	2.56	0.43
1:I:697:SER:CA	1:J:706:LEU:HD23	2.39	0.43
1:K:180:LYS:O	1:K:182:CYS:N	2.67	0.43
1:K:174:LEU:CB	1:K:198:VAL:HB	2.69	0.43
1:K:325:VAL:HA	1:K:364:GLU:HA	1.99	0.43
1:K:396:GLY:CA	1:L:405:THR:HG23	2.48	0.43
1:K:500:LEU:HA	1:K:566:ASP:OD1	2.19	0.43
1:L:123:LEU:HD11	1:L:143:TRP:HB2	2.29	0.43
1:L:287:PRO:O	1:L:295:GLN:HB2	2.17	0.43
1:L:326:LEU:O	1:L:328:GLU:HG2	4.83	0.43
1:L:34:THR:OG1	1:L:35:TYR:N	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:388:ILE:HD13	1:L:390:VAL:HG13	2.01	0.43
1:L:503:GLY:O	1:L:506:LYS:HD3	2.18	0.43
1:L:770:LEU:CD2	1:M:776:GLN:HG3	3.37	0.43
1:N:250:LEU:HD23	1:N:250:LEU:O	2.17	0.43
1:N:580:ARG:HH22	1:O:595:SER:CB	2.31	0.43
1:P:154:GLN:CG	1:P:155:LYS:N	2.81	0.43
1:P:633:LEU:HD23	1:P:634:VAL:N	2.33	0.43
1:Q:526:VAL:HA	1:Q:539:LEU:O	2.18	0.43
1:R:327:SER:CB	1:R:331:GLY:HA3	2.40	0.43
1:Q:398:VAL:N	1:R:384:GLN:OE1	2.51	0.43
1:R:417:LYS:O	1:R:418:GLU:HB2	2.18	0.43
1:R:533:ASP:CG	1:R:588:PHE:H	2.21	0.43
1:V:2:ALA:HB3	1:V:46:ALA:O	2.17	0.43
1:V:345:SER:C	1:V:347:GLU:H	2.22	0.43
1:V:389:TYR:CZ	1:V:457:VAL:HA	2.53	0.43
1:W:5:GLU:CG	1:W:43:VAL:HG21	2.47	0.43
1:W:533:ASP:OD1	1:W:533:ASP:N	2.51	0.43
1:X:407:MET:SD	1:X:407:MET:N	2.89	0.43
1:X:418:GLU:HG2	1:X:423:VAL:HG22	2.00	0.43
1:Y:33:LYS:HA	1:Y:101:PRO:HG3	2.00	0.43
1:A:10:ILE:CG2	1:A:11:PRO:HD2	2.48	0.43
1:A:183:PHE:HA	1:A:190:ARG:CD	2.49	0.43
1:A:399:ARG:HG2	1:A:399:ARG:HH11	2.00	0.43
1:B:69:THR:HA	1:B:106:GLU:HB3	2.27	0.43
1:B:586:VAL:HG13	1:B:590:ASP:OD2	2.30	0.43
1:B:796:LYS:HG2	1:B:800:GLU:OE2	2.29	0.43
1:C:472:ASP:HB3	1:C:477:ARG:HB2	2.19	0.43
1:C:472:ASP:CA	1:C:493:GLU:HB3	2.37	0.43
1:C:597:ARG:NH1	1:C:597:ARG:HB3	2.52	0.43
1:C:60:ILE:H	1:C:60:ILE:CD1	2.19	0.43
1:C:660:LEU:HA	1:C:663:GLU:HB3	2.40	0.43
1:D:106:GLU:O	1:D:107:LYS:HD2	2.18	0.43
1:D:111:PRO:HB2	1:D:150:THR:HG21	2.01	0.43
1:D:150:THR:HG23	1:D:151:TYR:N	2.35	0.43
1:D:374:VAL:HG12	1:D:375:GLU:N	2.33	0.43
1:C:766:ARG:HD3	1:D:772:TYR:HB2	2.00	0.43
1:D:93:ALA:C	1:D:95:ASP:H	2.21	0.43
1:E:152:ILE:HD13	1:E:152:ILE:H	1.82	0.43
1:E:285:LEU:CD1	1:E:315:ARG:HH11	2.65	0.43
1:E:421:SER:O	1:E:423:VAL:N	2.51	0.43
1:F:10:ILE:H	1:F:10:ILE:CD1	2.19	0.43
1:F:294:ASN:HD21	1:F:313:GLY:HA3	2.35	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:328:GLU:CG	1:F:329:GLN:H	4.13	0.43
1:F:365:TYR:CE2	1:F:367:PRO:HA	2.53	0.43
1:F:507:ARG:HA	1:F:508:PRO:HD3	1.85	0.43
1:G:109:ILE:HG13	1:G:109:ILE:O	2.25	0.43
1:G:472:ASP:HB3	1:G:477:ARG:HB2	2.00	0.43
1:G:766:ARG:HD3	1:H:772:TYR:CG	2.96	0.43
1:H:229:LEU:O	1:H:249:TRP:CD1	3.34	0.43
1:H:387:GLY:HA3	1:H:402:ILE:HA	2.17	0.43
1:I:545:TRP:HB2	1:I:633:LEU:HD21	2.52	0.43
1:J:70:GLN:CB	1:J:104:VAL:H	2.21	0.43
1:J:209:PHE:N	1:J:209:PHE:HD2	2.43	0.43
1:J:213:LEU:HD13	1:J:214:ASP:H	1.83	0.43
1:J:279:ARG:HA	1:J:323:VAL:HG22	2.00	0.43
1:J:334:LEU:HD12	1:J:377:ARG:NH2	2.71	0.43
1:J:529:ILE:HD12	1:J:529:ILE:O	2.45	0.43
1:J:567:PHE:HD2	1:J:633:LEU:HD11	1.98	0.43
1:K:220:ILE:C	1:K:222:THR:N	2.72	0.43
1:K:505:PRO:HG2	1:K:507:ARG:HH12	2.58	0.43
1:L:155:LYS:HB2	1:L:155:LYS:HZ2	1.87	0.43
1:L:175:ARG:HG3	1:L:215:LEU:HD23	2.00	0.43
1:L:172:GLN:HG2	1:L:216:VAL:HG12	3.09	0.43
1:L:395:THR:HB	1:L:397:LYS:HB3	1.98	0.43
1:M:164:GLN:NE2	1:M:204:TYR:HB3	2.33	0.43
1:M:177:ARG:H	1:M:212:VAL:CG2	2.64	0.43
1:M:529:ILE:HD12	1:M:529:ILE:O	4.74	0.43
1:A:691:GLN:NE2	1:M:679:ARG:HG3	183.10	0.43
1:N:184:ASP:HB3	1:N:187:GLY:O	2.18	0.43
1:N:180:LYS:HD2	1:N:208:VAL:HG12	1.98	0.43
1:N:36:ILE:O	1:N:37:ARG:CG	2.65	0.43
1:N:382:LEU:HD22	1:N:387:GLY:HA2	1.99	0.43
1:N:415:TRP:CH2	1:N:417:LYS:HB3	2.54	0.43
1:O:597:ARG:HG3	1:O:600:ARG:NH2	2.33	0.43
1:O:5:GLU:HB2	1:O:41:GLU:OE1	2.19	0.43
1:N:589:ASP:HB2	1:O:665:THR:HG21	2.00	0.43
1:O:84:ARG:HG2	1:O:85:HIS:ND1	2.32	0.43
1:Q:527:ILE:CD1	1:Q:527:ILE:H	2.26	0.43
1:R:811:ALA:O	1:R:813:ALA:N	2.38	0.43
1:S:68:ASP:O	1:S:69:THR:HB	2.17	0.43
1:T:65:VAL:HA	1:T:110:THR:HG22	2.00	0.43
1:T:17:HIS:CD2	1:T:18:VAL:HG22	2.54	0.43
1:U:165:ALA:O	1:U:203:ALA:O	2.36	0.43
1:U:279:ARG:HG3	1:U:280:HIS:HD2	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:649:ARG:NH2	1:U:655:GLN:HG2	2.24	0.43
1:U:697:SER:HA	1:V:706:LEU:HD23	1.99	0.43
1:V:8:ILE:HA	1:V:40:ASN:HD22	1.83	0.43
1:V:5:GLU:OE1	1:V:43:VAL:HG11	2.18	0.43
1:W:24:ASN:ND2	1:W:30:VAL:HB	2.25	0.43
1:W:533:ASP:O	1:W:534:HIS:HB2	2.18	0.43
1:X:334:LEU:HD22	1:X:374:VAL:HB	1.99	0.43
1:Y:330:GLN:CG	1:Y:379:ALA:HB3	2.48	0.43
1:Y:579:VAL:HG22	1:Y:599:ILE:HG23	1.99	0.43
1:Z:311:GLN:HB2	1:Z:314:GLU:CG	2.47	0.43
1:A:183:PHE:HD2	1:A:184:ASP:H	1.90	0.43
1:A:226:ALA:HB2	1:A:252:THR:HB	2.00	0.43
1:A:235:PHE:CZ	1:A:264:TYR:CE1	3.15	0.43
1:A:224:LYS:HA	1:A:272:PRO:CG	2.58	0.43
1:B:327:SER:HB2	1:B:331:GLY:HA2	2.84	0.43
1:B:340:LEU:HG	1:B:353:ALA:H	2.15	0.43
1:B:575:ILE:HG23	1:B:603:VAL:HG13	2.00	0.43
1:C:206:PRO:HB2	1:C:209:PHE:CD2	2.54	0.43
1:C:262:ASP:HB3	1:C:264:TYR:HE1	2.25	0.43
1:C:452:ARG:HH12	1:C:454:LYS:HA	2.35	0.43
1:C:591:PHE:O	1:C:595:SER:N	2.51	0.43
1:C:770:LEU:HD12	1:C:774:ARG:HH22	2.40	0.43
1:C:245:THR:OG1	1:D:170:GLN:OE1	2.67	0.43
1:D:36:ILE:HG21	1:D:99:LEU:CD1	2.56	0.43
1:F:74:LEU:HD22	1:F:100:TYR:HE2	1.82	0.43
1:F:224:LYS:C	1:F:272:PRO:HD3	2.45	0.43
1:G:154:GLN:HG2	1:G:155:LYS:HE3	2.75	0.43
1:G:177:ARG:HD3	1:G:195:GLU:OE2	2.47	0.43
1:G:311:GLN:HB3	1:G:312:PRO:CD	2.70	0.43
1:G:5:GLU:OE1	1:G:43:VAL:HG11	2.28	0.43
1:H:132:LYS:HD2	1:H:132:LYS:HA	2.05	0.43
1:H:137:VAL:HG23	1:H:138:MET:N	2.33	0.43
1:H:169:LYS:HB2	1:H:170:GLN:H	2.48	0.43
1:H:283:VAL:HB	1:H:317:GLU:HB3	2.12	0.43
1:I:16:ILE:CD1	1:I:34:THR:HG21	5.14	0.43
1:I:144:LEU:CD2	1:I:204:TYR:CE2	3.00	0.43
1:I:291:ASP:C	1:I:293:LYS:H	2.25	0.43
1:I:318:ARG:O	1:I:319:GLY:C	2.56	0.43
1:I:419:LEU:CD1	1:I:494:GLN:HE21	2.31	0.43
1:J:228:HIS:O	1:J:267:VAL:HG23	2.33	0.43
1:J:326:LEU:HD13	1:J:360:ARG:HA	2.03	0.43
1:K:117:PRO:O	1:K:118:ASN:C	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:332:LEU:HG	1:K:360:ARG:HD3	2.17	0.43
1:K:338:GLN:HB2	1:K:339:PRO:HD3	2.29	0.43
1:K:62:ALA:O	1:K:93:ALA:HB2	2.35	0.43
1:L:165:ALA:HB1	1:L:174:LEU:HD11	1.98	0.43
1:M:130:GLU:HG3	1:M:130:GLU:O	2.54	0.43
1:M:177:ARG:HD2	1:M:193:GLY:O	2.17	0.43
1:M:177:ARG:HD3	1:M:195:GLU:OE2	2.18	0.43
1:N:124:LYS:HE3	1:N:157:VAL:HB	1.99	0.43
1:N:9:ARG:CZ	1:N:15:TYR:HB3	2.48	0.43
1:N:530:GLU:OE1	1:O:592:HIS:HE1	2.01	0.43
1:O:227:LEU:O	1:O:250:LEU:HA	2.19	0.43
1:O:311:GLN:HB3	1:O:312:PRO:CD	2.45	0.43
1:O:77:ILE:HG13	1:O:79:GLY:H	1.83	0.43
1:P:284:ILE:CD1	1:P:284:ILE:N	2.78	0.43
1:Q:154:GLN:HG3	1:Q:155:LYS:NZ	2.33	0.43
1:S:262:ASP:HB3	1:S:264:TYR:CZ	2.54	0.43
1:S:549:LEU:HD12	1:S:552:ARG:HA	2.00	0.43
1:S:623:ARG:CG	1:S:624:ASP:H	2.31	0.43
1:T:123:LEU:HG	1:T:143:TRP:HB2	2.00	0.43
1:T:419:LEU:HD22	1:T:422:GLY:H	1.82	0.43
1:T:67:ARG:HG2	1:T:108:ASP:HB3	1.99	0.43
1:T:57:HIS:O	1:T:99:LEU:HD11	2.19	0.43
1:V:399:ARG:NH1	1:V:399:ARG:HG2	2.34	0.43
1:W:130:GLU:HB2	1:W:136:LYS:HA	2.00	0.43
1:W:276:LEU:N	1:W:280:HIS:HB2	2.33	0.43
1:Y:252:THR:OG1	1:Y:253:VAL:N	2.51	0.43
1:Z:419:LEU:HD23	1:Z:421:SER:H	1.83	0.43
1:Z:587:THR:HG23	1:Z:590:ASP:HB2	2.01	0.43
1:A:177:ARG:NH1	1:A:177:ARG:HB2	2.34	0.43
1:A:311:GLN:CB	1:A:312:PRO:HD2	2.70	0.43
1:A:340:LEU:HG	1:A:353:ALA:CB	2.47	0.43
1:A:470:VAL:HB	1:A:479:ARG:HD2	2.12	0.43
1:A:474:ARG:HB3	1:A:492:GLU:HG3	1.99	0.43
1:A:472:ASP:CA	1:A:493:GLU:HB3	2.45	0.43
1:A:660:LEU:O	1:A:664:ILE:HG23	2.17	0.43
1:A:803:GLY:CA	1:A:806:THR:HB	2.49	0.43
1:B:273:ILE:HG13	1:B:273:ILE:O	2.19	0.43
1:B:276:LEU:HD13	1:B:278:PRO:HD2	2.15	0.43
1:B:382:LEU:HB2	1:B:404:SER:O	2.28	0.43
1:B:705:GLU:O	1:B:709:LEU:HG	2.46	0.43
1:C:191:VAL:HG13	1:C:192:THR:N	2.51	0.43
1:C:490:ASP:N	1:C:493:GLU:HG2	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:502:ALA:HB2	1:C:511:ARG:HB3	2.38	0.43
1:C:529:ILE:HD12	1:C:529:ILE:C	2.39	0.43
1:D:115:VAL:N	1:D:118:ASN:ND2	2.67	0.43
1:D:224:LYS:HA	1:D:272:PRO:CG	2.33	0.43
1:D:229:LEU:O	1:D:248:GLU:HA	2.18	0.43
1:D:215:LEU:HD12	1:D:259:HIS:NE2	2.78	0.43
1:D:334:LEU:O	1:D:374:VAL:HB	2.18	0.43
1:E:330:GLN:HE22	1:E:360:ARG:HD2	1.84	0.43
1:E:391:GLN:HA	1:E:397:LYS:O	2.17	0.43
1:E:599:ILE:O	1:E:603:VAL:HG23	2.19	0.43
1:F:67:ARG:CD	1:F:108:ASP:HB3	2.75	0.43
1:F:109:ILE:HG13	1:F:109:ILE:O	2.26	0.43
1:F:119:THR:HG22	1:F:120:ALA:H	1.83	0.43
1:F:122:HIS:HB3	1:F:159:VAL:HB	2.01	0.43
1:F:417:LYS:HE2	1:F:491:PRO:O	2.19	0.43
1:F:504:ARG:HD3	1:F:504:ARG:HA	1.81	0.43
1:G:215:LEU:HD12	1:G:259:HIS:CE1	2.53	0.43
1:G:334:LEU:HD23	1:G:334:LEU:C	2.39	0.43
1:G:508:PRO:O	1:G:509:HIS:HD2	2.01	0.43
1:G:676:GLU:O	1:G:678:GLN:N	3.03	0.43
1:H:256:THR:O	1:H:256:THR:HG23	2.33	0.43
1:H:262:ASP:HB3	1:H:264:TYR:OH	2.47	0.43
1:H:591:PHE:O	1:H:595:SER:N	2.51	0.43
1:I:146:GLU:OE1	1:I:146:GLU:HA	2.36	0.43
1:I:597:ARG:O	1:I:601:MET:HB2	2.19	0.43
1:H:704:LYS:CD	1:I:712:MET:HB3	2.47	0.43
1:J:115:VAL:N	1:J:118:ASN:HD22	2.05	0.43
1:J:154:GLN:OE1	1:J:155:LYS:N	2.50	0.43
1:J:328:GLU:OE1	1:J:362:PRO:CA	7.41	0.43
1:J:5:GLU:C	1:J:7:ILE:HD12	5.09	0.43
1:K:221:LEU:HA	1:K:253:VAL:HG13	2.16	0.43
1:K:291:ASP:O	1:K:293:LYS:N	2.52	0.43
1:K:389:TYR:CZ	1:K:457:VAL:HA	2.84	0.43
1:L:334:LEU:HD23	1:L:357:TRP:O	2.18	0.43
1:L:65:VAL:HA	1:L:110:THR:CB	2.49	0.43
1:M:100:TYR:CB	1:M:101:PRO:CD	3.14	0.43
1:M:185:ARG:HG3	1:M:206:PRO:HB2	2.40	0.43
1:M:279:ARG:HG3	1:M:280:HIS:HD2	1.86	0.43
1:N:379:ALA:HB2	1:N:407:MET:HB3	2.01	0.43
1:N:387:GLY:HA3	1:N:402:ILE:HG22	2.00	0.43
1:N:60:ILE:HD13	1:N:93:ALA:CA	2.39	0.43
1:O:221:LEU:HD12	1:O:253:VAL:HG13	1.99	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:697:SER:CA	1:O:706:LEU:HD23	2.46	0.43
1:P:38:GLN:H	1:P:38:GLN:HG2	1.62	0.43
1:P:425:GLU:HG3	1:P:514:LEU:HB2	2.00	0.43
1:P:599:ILE:C	1:P:601:MET:N	2.72	0.43
1:O:701:LYS:HG3	1:P:709:LEU:HD13	2.00	0.43
1:Q:243:HIS:NE2	1:Q:249:TRP:CE2	2.86	0.43
1:Q:273:ILE:HD11	1:Q:308:PHE:HD2	1.83	0.43
1:Q:333:LEU:HD12	1:Q:359:ILE:HD11	2.00	0.43
1:R:113:GLN:NE2	1:R:150:THR:H	2.16	0.43
1:R:260:VAL:O	1:R:263:VAL:N	2.51	0.43
1:R:288:MET:CE	1:R:294:ASN:ND2	2.82	0.43
1:R:389:TYR:CZ	1:R:457:VAL:HA	2.54	0.43
1:S:115:VAL:CB	1:S:148:PRO:HA	2.38	0.43
1:S:262:ASP:HB3	1:S:264:TYR:CE1	2.54	0.43
1:S:389:TYR:CE2	1:S:457:VAL:HG22	2.53	0.43
1:T:336:ALA:HA	1:T:356:CYS:HB2	2.00	0.43
1:T:360:ARG:CG	1:T:361:GLY:N	2.82	0.43
1:T:795:PHE:O	1:T:799:THR:HG22	2.19	0.43
1:U:402:ILE:O	1:U:402:ILE:HD12	2.17	0.43
1:V:13:TYR:N	1:V:13:TYR:CD1	2.87	0.43
1:V:185:ARG:HG3	1:V:206:PRO:CB	2.49	0.43
1:V:338:GLN:CB	1:V:339:PRO:CD	2.93	0.43
1:W:38:GLN:H	1:W:38:GLN:HG2	1.58	0.43
1:X:14:HIS:HB3	1:X:56:ARG:CB	2.38	0.43
1:X:65:VAL:HG12	1:X:110:THR:CG2	2.43	0.43
1:Y:123:LEU:HD11	1:Y:143:TRP:HB2	2.00	0.43
1:Y:236:ARG:HA	1:Y:241:VAL:O	2.19	0.43
1:Y:36:ILE:HG21	1:Y:99:LEU:CD1	2.45	0.43
1:Y:382:LEU:HD22	1:Y:387:GLY:HA2	1.99	0.43
1:Z:243:HIS:NE2	1:Z:249:TRP:CE2	2.87	0.43
1:Z:18:VAL:HG21	1:Z:33:LYS:HE3	2.00	0.43
1:Z:398:VAL:HG11	1:Z:415:TRP:CD2	2.53	0.43
1:A:181:GLU:HG3	1:A:181:GLU:O	2.32	0.43
1:A:360:ARG:CD	1:A:407:MET:HG2	2.48	0.43
1:A:382:LEU:H	1:A:405:THR:HA	2.21	0.43
1:A:606:PHE:HB2	1:A:622:ALA:HA	1.99	0.43
1:B:568:VAL:HG23	1:B:569:GLY:H	1.99	0.43
1:B:580:ARG:HH22	1:C:595:SER:CB	2.22	0.43
1:C:154:GLN:HG3	1:C:155:LYS:NZ	2.81	0.43
1:C:152:ILE:HD11	1:C:156:GLU:OE2	2.77	0.43
1:C:197:LEU:HD22	1:C:197:LEU:HA	1.92	0.43
1:C:452:ARG:HH22	1:C:458:VAL:HG22	2.46	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:516:LEU:HD21	1:C:567:PHE:CE1	2.91	0.43
1:C:6:ALA:HA	1:C:41:GLU:O	2.37	0.43
1:D:11:PRO:HB2	1:D:12:PRO:HD3	2.01	0.43
1:E:144:LEU:HD23	1:E:204:TYR:OH	2.19	0.43
1:E:14:HIS:ND1	1:E:36:ILE:HG22	2.34	0.43
1:E:554:ASP:HA	1:E:555:PRO:HD3	1.88	0.43
1:E:564:VAL:HG21	1:E:631:ASN:ND2	2.60	0.43
1:E:540:GLN:O	1:E:641:GLN:HG2	2.19	0.43
1:F:343:GLY:HA2	1:F:348:LYS:C	2.59	0.43
1:F:354:GLY:O	1:F:356:CYS:N	2.61	0.43
1:F:43:VAL:CG1	1:F:45:PHE:O	2.76	0.43
1:G:239:ARG:HH21	1:G:257:GLU:CG	2.17	0.43
1:G:332:LEU:HD13	1:G:377:ARG:HG2	2.25	0.43
1:G:745:LYS:O	1:G:748:ALA:HB3	2.19	0.43
1:H:327:SER:HB2	1:H:331:GLY:HA2	2.44	0.43
1:H:506:LYS:HE2	1:H:524:THR:O	2.29	0.43
1:H:564:VAL:CG2	1:H:631:ASN:HD22	3.00	0.43
1:I:9:ARG:CZ	1:I:15:TYR:HB3	2.53	0.43
1:I:330:GLN:HG3	1:I:379:ALA:HB2	1.86	0.43
1:J:70:GLN:CB	1:J:104:VAL:HG12	2.77	0.43
1:J:232:LEU:HD23	1:J:232:LEU:HA	1.82	0.43
1:J:25:VAL:O	1:J:26:SER:HB2	2.18	0.43
1:J:279:ARG:HG3	1:J:280:HIS:CD2	2.51	0.43
1:J:283:VAL:HB	1:J:317:GLU:HB3	2.01	0.43
1:J:452:ARG:HH12	1:J:454:LYS:HA	1.82	0.43
1:J:766:ARG:HD2	1:K:768:MET:HE1	2.03	0.43
1:L:120:ALA:HB2	1:L:164:GLN:HE22	1.83	0.43
1:L:368:SER:HB3	1:L:371:VAL:HG23	2.80	0.43
1:L:60:ILE:HD13	1:L:93:ALA:CA	2.41	0.43
1:L:61:VAL:CG2	1:L:62:ALA:H	2.30	0.43
1:M:169:LYS:HB2	1:M:170:GLN:H	1.57	0.43
1:M:234:ASN:HA	1:M:243:HIS:O	2.18	0.43
1:M:224:LYS:O	1:M:272:PRO:HD3	2.19	0.43
1:M:286:ASP:OD1	1:M:296:LEU:O	2.37	0.43
1:M:36:ILE:HG21	1:M:99:LEU:CD1	2.45	0.43
1:M:61:VAL:HG22	1:M:61:VAL:O	2.35	0.43
1:N:5:GLU:HG2	1:N:43:VAL:HG21	2.00	0.43
1:N:599:ILE:C	1:N:601:MET:H	2.22	0.43
1:O:30:VAL:HG22	1:O:74:LEU:CD1	2.49	0.43
1:N:580:ARG:HH22	1:O:595:SER:HB2	1.84	0.43
1:O:653:ALA:HB3	1:P:662:ILE:CD1	2.47	0.43
1:P:175:ARG:HA	1:P:196:TRP:O	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:276:LEU:H	1:P:280:HIS:HB2	1.83	0.43
1:P:459:SER:HB3	1:P:488:THR:CG2	2.34	0.43
1:P:557:GLU:O	1:P:560:LYS:HB2	2.19	0.43
1:P:697:SER:HB3	1:Q:706:LEU:HB2	2.00	0.43
1:R:13:TYR:N	1:R:13:TYR:CD1	2.86	0.43
1:R:17:HIS:CD2	1:R:18:VAL:HG22	2.54	0.43
1:R:384:GLN:H	1:R:384:GLN:HE21	1.65	0.43
1:S:128:ASP:OD1	1:S:155:LYS:HD2	2.19	0.43
1:S:175:ARG:HG3	1:S:215:LEU:HD23	2.01	0.43
1:S:471:TYR:HD2	1:S:473:TYR:CE1	2.36	0.43
1:S:660:LEU:HA	1:S:663:GLU:HB3	2.00	0.43
1:T:507:ARG:HA	1:T:508:PRO:HD3	1.84	0.43
1:T:16:ILE:HB	1:T:51:VAL:HB	1.99	0.43
1:U:729:ARG:HB2	1:U:729:ARG:CZ	2.48	0.43
1:V:122:HIS:HB3	1:V:159:VAL:HB	1.99	0.43
1:V:235:PHE:CE2	1:V:243:HIS:HB3	2.53	0.43
1:W:394:LYS:HA	1:X:329:GLN:NE2	2.34	0.43
1:W:468:VAL:HG11	1:W:495:PHE:CE2	2.53	0.43
1:W:90:ILE:HD12	1:W:90:ILE:O	2.18	0.43
1:X:342:GLU:HB2	1:X:350:SER:CB	2.48	0.43
1:Y:130:GLU:CG	1:Y:130:GLU:O	2.66	0.43
1:Y:221:LEU:HD13	1:Y:255:ASP:O	2.18	0.43
1:Y:20:ASP:HB2	1:Y:49:ARG:HD3	2.01	0.43
1:Y:567:PHE:HD2	1:Y:633:LEU:CD1	2.31	0.43
1:Z:335:LYS:HD2	1:Z:365:TYR:CE2	2.53	0.43
1:Z:606:PHE:HB2	1:Z:621:LYS:O	2.19	0.43
1:Z:748:ALA:O	1:Z:752:ALA:HB2	2.18	0.43
1:A:68:ASP:OD1	1:A:106:GLU:HA	2.85	0.43
1:A:132:LYS:HZ2	1:A:152:ILE:CD1	2.30	0.43
1:A:18:VAL:O	1:A:32:PRO:HB3	2.18	0.43
1:A:382:LEU:N	1:A:405:THR:HG22	2.48	0.43
1:A:536:ARG:CZ	1:A:536:ARG:HB3	2.94	0.43
1:B:69:THR:HA	1:B:106:GLU:CB	2.72	0.43
1:B:189:GLY:O	1:B:196:TRP:HZ2	2.02	0.43
1:B:458:VAL:HB	1:B:489:LEU:HD12	1.99	0.43
1:B:61:VAL:HG13	1:B:65:VAL:HB	3.32	0.43
1:B:627:VAL:HG13	1:B:634:VAL:HG22	2.01	0.43
1:C:164:GLN:CD	1:C:204:TYR:HB3	2.93	0.43
1:D:109:ILE:HG13	1:D:109:ILE:O	2.24	0.43
1:D:171:ASN:O	1:D:172:GLN:HG3	2.62	0.43
1:D:284:ILE:HD13	1:D:300:ARG:O	2.19	0.43
1:D:90:ILE:C	1:D:90:ILE:HD12	4.40	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:38:GLN:HG2	1:E:38:GLN:H	1.61	0.43
1:E:700:GLU:OE1	1:E:703:ARG:NH1	2.51	0.43
1:F:294:ASN:ND2	1:F:313:GLY:CA	3.42	0.43
1:F:335:LYS:NZ	1:F:335:LYS:CB	2.81	0.43
1:F:414:LEU:HD23	1:F:455:THR:CB	3.10	0.43
1:F:796:LYS:CA	1:F:799:THR:HG22	2.49	0.43
1:G:421:SER:O	1:G:423:VAL:N	2.52	0.43
1:H:164:GLN:HB3	1:H:204:TYR:HA	2.00	0.43
1:H:234:ASN:HA	1:H:243:HIS:O	2.18	0.43
1:H:279:ARG:HG3	1:H:280:HIS:CD2	2.77	0.43
1:H:334:LEU:HD12	1:H:377:ARG:NH2	2.34	0.43
1:H:335:LYS:CD	1:H:359:ILE:HD11	3.72	0.43
1:H:377:ARG:NH1	1:H:408:LEU:O	2.50	0.43
1:H:527:ILE:HD11	1:H:539:LEU:CG	3.26	0.43
1:H:579:VAL:HG22	1:H:599:ILE:HD12	2.76	0.43
1:H:60:ILE:HD13	1:H:93:ALA:O	2.18	0.43
1:H:664:ILE:HD12	1:I:673:ALA:HB2	2.27	0.43
1:I:807:ILE:HD12	1:I:808:ARG:H	1.83	0.43
1:J:113:GLN:O	1:J:114:VAL:HG13	2.23	0.43
1:J:175:ARG:HG3	1:J:215:LEU:HD23	2.14	0.43
1:J:58:TYR:CD1	1:J:98:PRO:HA	2.68	0.43
1:K:179:ARG:NH2	1:K:209:PHE:O	2.51	0.43
1:K:352:GLN:O	1:K:355:ASP:HB3	2.18	0.43
1:K:567:PHE:HD2	1:K:633:LEU:HD12	2.43	0.43
1:K:723:LYS:HG2	1:K:727:GLU:OE2	3.14	0.43
1:L:184:ASP:O	1:L:187:GLY:O	2.61	0.43
1:L:194:GLU:HG2	1:L:195:GLU:N	2.35	0.43
1:L:177:ARG:H	1:L:212:VAL:HG23	2.38	0.43
1:L:227:LEU:CD1	1:L:229:LEU:HD21	2.45	0.43
1:L:471:TYR:CD1	1:L:478:ALA:HB2	2.77	0.43
1:L:501:SER:HB3	1:L:507:ARG:O	2.28	0.43
1:L:540:GLN:HB3	1:L:641:GLN:HE21	2.05	0.43
1:L:549:LEU:HD22	1:L:549:LEU:HA	1.90	0.43
1:L:14:HIS:ND1	1:L:99:LEU:HD22	2.34	0.43
1:M:260:VAL:CB	1:M:263:VAL:HA	2.44	0.43
1:N:120:ALA:O	1:N:161:GLU:HA	2.18	0.43
1:N:311:GLN:HB2	1:N:314:GLU:CG	2.49	0.43
1:N:734:ARG:NH2	1:N:735:ILE:CD1	2.82	0.43
1:Q:109:ILE:HG13	1:Q:109:ILE:O	2.19	0.43
1:Q:115:VAL:H	1:Q:118:ASN:ND2	2.17	0.43
1:Q:58:TYR:HD1	1:Q:99:LEU:CD1	2.32	0.43
1:R:181:GLU:HA	1:R:181:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:354:GLY:O	1:S:328:GLU:HG3	2.18	0.43
1:R:69:THR:O	1:R:88:GLN:HG3	2.18	0.43
1:R:725:GLU:O	1:R:728:SER:HB3	2.18	0.43
1:S:67:ARG:NH2	1:S:107:LYS:HA	2.29	0.43
1:S:60:ILE:HG12	1:S:92:LEU:O	2.18	0.43
1:T:402:ILE:HD12	1:T:402:ILE:C	2.39	0.43
1:U:164:GLN:NE2	1:U:204:TYR:HB2	2.34	0.43
1:U:311:GLN:N	1:U:314:GLU:HG3	2.33	0.43
1:U:365:TYR:CE2	1:U:367:PRO:HA	2.54	0.43
1:U:676:GLU:HA	1:U:676:GLU:OE1	2.19	0.43
1:V:399:ARG:HG2	1:V:399:ARG:HH11	1.83	0.43
1:V:531:THR:HG21	1:V:588:PHE:HA	2.01	0.43
1:W:154:GLN:HG3	1:W:155:LYS:H	1.83	0.43
1:W:179:ARG:CZ	1:W:210:GLU:HB2	2.49	0.43
1:W:526:VAL:HA	1:W:539:LEU:O	2.18	0.43
1:X:606:PHE:HB2	1:X:622:ALA:HA	2.01	0.43
1:Y:194:GLU:HG2	1:Y:195:GLU:N	2.29	0.43
1:Y:398:VAL:HG11	1:Y:415:TRP:CD2	2.53	0.43
1:Y:759:LEU:HD13	1:Z:768:MET:HG3	2.01	0.43
1:Y:57:HIS:O	1:Y:99:LEU:HD11	2.19	0.43
1:Z:185:ARG:HH21	1:Z:208:VAL:HG22	1.83	0.43
1:A:10:ILE:HD13	1:A:13:TYR:CD2	2.74	0.43
1:A:14:HIS:CE1	1:A:99:LEU:HB2	2.54	0.43
1:A:327:SER:H	1:A:331:GLY:HA3	2.07	0.43
1:A:17:HIS:HA	1:A:49:ARG:O	2.19	0.43
1:A:603:VAL:HG21	1:A:638:VAL:HG21	2.00	0.43
1:B:232:LEU:O	1:B:233:GLN:HG3	2.18	0.43
1:B:382:LEU:HD22	1:B:387:GLY:HA2	2.22	0.43
1:B:419:LEU:CG	1:B:420:PRO:HD2	2.59	0.43
1:C:414:LEU:HD23	1:C:455:THR:CB	3.11	0.43
1:C:426:LEU:HD21	1:C:495:PHE:CE1	2.98	0.43
1:C:714:MET:O	1:C:714:MET:HE3	2.18	0.43
1:D:213:LEU:HD13	1:D:214:ASP:O	2.19	0.43
1:D:529:ILE:HG22	1:D:580:ARG:CB	2.49	0.43
1:D:759:LEU:HA	1:D:759:LEU:HD23	1.86	0.43
1:E:523:PHE:CD1	1:E:545:TRP:NE1	2.87	0.43
1:E:63:ASN:N	1:E:64:PRO:HD2	2.33	0.43
1:E:65:VAL:HG12	1:E:110:THR:CG2	2.49	0.43
1:G:256:THR:HG23	1:G:256:THR:O	2.19	0.43
1:G:279:ARG:HG3	1:G:280:HIS:HD2	2.41	0.43
1:G:400:ALA:HB2	1:G:491:PRO:HD3	2.17	0.43
1:H:175:ARG:HA	1:H:196:TRP:O	2.23	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:291:ASP:C	1:H:293:LYS:N	2.72	0.43
1:H:490:ASP:O	1:H:491:PRO:C	2.62	0.43
1:G:707:LEU:HD22	1:H:717:GLU:HB2	1.99	0.43
1:G:766:ARG:CG	1:H:772:TYR:CD1	3.01	0.43
1:I:122:HIS:CB	1:I:159:VAL:HB	2.48	0.43
1:I:380:ILE:HD12	1:I:380:ILE:O	2.19	0.43
1:I:380:ILE:HA	1:I:381:PRO:HD3	1.92	0.43
1:I:407:MET:SD	1:I:407:MET:N	3.09	0.43
1:I:605:GLY:HA3	1:I:623:ARG:NH2	2.33	0.43
1:J:221:LEU:HD13	1:J:256:THR:HB	2.01	0.43
1:J:311:GLN:H	1:J:314:GLU:HG3	1.82	0.43
1:J:416:GLU:OE1	1:J:454:LYS:HD3	2.37	0.43
1:J:518:LEU:HA	1:J:547:PHE:HD1	1.84	0.43
1:I:535:ALA:HA	1:J:658:VAL:HG21	2.01	0.43
1:K:282:CYS:SG	1:K:302:VAL:HG23	2.69	0.43
1:K:325:VAL:HG13	1:K:325:VAL:O	2.43	0.43
1:L:169:LYS:HB3	1:L:201:VAL:HG11	2.00	0.43
1:L:90:ILE:HG12	1:L:154:GLN:HB2	2.05	0.43
1:M:217:ASP:OD1	1:M:218:ALA:N	2.52	0.43
1:M:220:ILE:HD13	1:M:251:VAL:HG13	2.01	0.43
1:M:459:SER:HB3	1:M:488:THR:CG2	2.28	0.43
1:M:73:VAL:N	1:M:84:ARG:HG3	3.94	0.43
1:O:251:VAL:CG2	1:O:254:GLN:NE2	2.82	0.43
1:O:390:VAL:HG12	1:O:408:LEU:HD23	2.00	0.43
1:N:682:GLN:NE2	1:O:695:ASP:OD2	2.36	0.43
1:P:335:LYS:HG2	1:P:373:VAL:HG13	1.99	0.43
1:P:30:VAL:HG22	1:P:74:LEU:HD11	2.00	0.43
1:R:224:LYS:C	1:R:272:PRO:HD3	2.39	0.43
1:S:276:LEU:O	1:S:277:GLY:C	2.56	0.43
1:S:594:ASN:O	1:S:595:SER:C	2.57	0.43
1:T:326:LEU:HD23	1:T:326:LEU:HA	1.83	0.43
1:T:67:ARG:HG2	1:T:108:ASP:HA	2.01	0.43
1:U:227:LEU:CB	1:U:251:VAL:HG12	2.49	0.43
1:U:481:VAL:O	1:U:481:VAL:HG13	2.19	0.43
1:U:633:LEU:HD23	1:U:634:VAL:N	2.33	0.43
1:U:794:LYS:O	1:U:798:MET:HG2	2.18	0.43
1:V:657:SER:O	1:V:661:ALA:HB2	2.19	0.43
1:W:183:PHE:HE2	1:W:188:LYS:HA	1.84	0.43
1:W:279:ARG:O	1:W:323:VAL:HG13	2.19	0.43
1:X:11:PRO:HB2	1:X:12:PRO:HD3	1.99	0.43
1:X:281:TYR:CD2	1:X:366:VAL:HG22	2.53	0.43
1:X:599:ILE:O	1:X:601:MET:N	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:623:ARG:CG	1:X:624:ASP:H	2.32	0.43
1:Y:109:ILE:CD1	1:Y:153:PRO:HB2	2.49	0.43
1:Y:168:ILE:N	1:Y:168:ILE:CD1	2.82	0.43
1:Z:220:ILE:C	1:Z:222:THR:N	2.71	0.43
1:A:42:ARG:HB3	1:A:42:ARG:HE	1.68	0.43
1:A:712:MET:O	1:A:716:VAL:HG23	2.18	0.43
1:B:13:TYR:N	1:B:13:TYR:HD1	2.20	0.43
1:B:155:LYS:HZ2	1:B:155:LYS:HB2	2.92	0.43
1:B:221:LEU:HD22	1:B:256:THR:CG2	2.61	0.43
1:B:227:LEU:HB3	1:B:251:VAL:HG12	2.47	0.43
1:B:255:ASP:OD1	1:B:256:THR:N	2.62	0.43
1:B:337:LEU:HD23	1:B:337:LEU:N	2.45	0.43
1:B:533:ASP:N	1:B:533:ASP:OD1	2.52	0.43
1:B:500:LEU:HA	1:B:566:ASP:OD1	2.19	0.43
1:B:760:GLU:HA	1:B:760:GLU:OE1	2.41	0.43
1:C:340:LEU:HG	1:C:353:ALA:CB	2.55	0.43
1:C:46:ALA:H	1:C:47:PRO:HD3	1.84	0.43
1:C:807:ILE:H	1:C:807:ILE:HG13	1.55	0.43
1:D:273:ILE:HD13	1:D:310:LEU:HD21	1.99	0.43
1:D:280:HIS:HD2	1:D:322:ASP:HB3	1.92	0.43
1:D:327:SER:N	1:D:331:GLY:HA3	2.33	0.43
1:D:68:ASP:HB3	1:D:90:ILE:HG22	2.00	0.43
1:E:150:THR:HG23	1:E:151:TYR:N	2.41	0.43
1:E:151:TYR:N	1:E:151:TYR:CD1	2.98	0.43
1:F:252:THR:OG1	1:F:253:VAL:N	2.52	0.43
1:F:327:SER:O	1:F:328:GLU:C	3.63	0.43
1:F:554:ASP:HA	1:F:555:PRO:HD3	1.97	0.43
1:G:325:VAL:HG23	1:G:364:GLU:HB3	2.76	0.43
1:G:522:PHE:O	1:G:522:PHE:CD2	3.02	0.43
1:G:578:ARG:HB3	1:G:602:ALA:O	2.19	0.43
1:G:662:ILE:O	1:G:666:THR:HB	2.23	0.43
1:H:10:ILE:HD13	1:H:13:TYR:CD2	2.53	0.43
1:H:109:ILE:CD1	1:H:153:PRO:HG2	2.48	0.43
1:H:122:HIS:CG	1:H:159:VAL:HB	2.54	0.43
1:H:169:LYS:H	1:H:201:VAL:HG12	2.78	0.43
1:H:235:PHE:CE1	1:H:237:ASP:HA	2.69	0.43
1:H:65:VAL:HA	1:H:110:THR:HG22	2.13	0.43
1:I:19:LEU:HA	1:I:32:PRO:HB2	2.05	0.43
1:I:220:ILE:HD13	1:I:252:THR:HA	2.00	0.43
1:I:296:LEU:HD13	1:I:296:LEU:H	1.82	0.43
1:I:365:TYR:CE2	1:I:367:PRO:HA	2.54	0.43
1:I:45:PHE:HB2	1:I:48:VAL:HG23	2.04	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:280:HIS:O	1:J:303:LYS:O	2.36	0.43
1:K:550:LYS:HG3	1:K:551:ASN:HD22	4.03	0.43
1:K:579:VAL:CG2	1:K:599:ILE:HG23	2.76	0.43
1:L:13:TYR:CD1	1:L:13:TYR:N	2.88	0.43
1:L:340:LEU:HD11	1:M:363:LEU:CD1	2.48	0.43
1:M:23:SER:HB3	1:M:31:GLY:C	2.43	0.43
1:M:337:LEU:H	1:M:337:LEU:HD23	1.99	0.43
1:M:340:LEU:HD23	1:M:353:ALA:N	3.34	0.43
1:M:503:GLY:HA3	1:M:507:ARG:HH11	1.83	0.43
1:M:539:LEU:CD2	1:M:643:VAL:HG13	3.10	0.43
1:A:806:THR:CG2	1:M:807:ILE:HD13	106.96	0.43
1:N:273:ILE:HG23	1:N:310:LEU:HD11	2.00	0.43
1:N:564:VAL:CG2	1:N:631:ASN:ND2	2.82	0.43
1:N:805:GLY:O	1:N:808:ARG:HB3	2.19	0.43
1:O:221:LEU:HD13	1:O:256:THR:CB	2.35	0.43
1:P:184:ASP:CB	1:P:189:GLY:O	2.67	0.43
1:P:281:TYR:O	1:P:282:CYS:HB3	2.19	0.43
1:P:462:VAL:HG22	1:P:468:VAL:HG23	2.01	0.43
1:P:501:SER:HA	1:P:507:ARG:O	2.18	0.43
1:P:569:GLY:O	1:P:573:LYS:HB2	2.19	0.43
1:P:601:MET:HG2	1:P:622:ALA:HB1	2.00	0.43
1:P:603:VAL:HG21	1:P:638:VAL:HG21	2.01	0.43
1:Q:154:GLN:HG3	1:Q:155:LYS:HZ1	1.83	0.43
1:Q:332:LEU:CD2	1:Q:358:LEU:HD11	2.47	0.43
1:R:169:LYS:HG3	1:R:170:GLN:H	1.84	0.43
1:R:175:ARG:HG3	1:R:215:LEU:HD23	2.01	0.43
1:R:276:LEU:O	1:R:277:GLY:C	2.58	0.43
1:R:273:ILE:CD1	1:R:310:LEU:HG	2.48	0.43
1:R:64:PRO:HA	1:R:111:PRO:HD2	2.00	0.43
1:Q:682:GLN:NE2	1:R:695:ASP:OD2	2.45	0.43
1:S:417:LYS:O	1:S:418:GLU:HB2	2.18	0.43
1:S:750:ALA:C	1:S:752:ALA:H	2.22	0.43
1:T:152:ILE:H	1:T:152:ILE:HG13	1.69	0.43
1:T:227:LEU:HB3	1:T:251:VAL:HG12	2.00	0.43
1:T:336:ALA:H	1:T:374:VAL:HG23	1.82	0.43
1:T:11:PRO:CA	1:T:38:GLN:HA	2.43	0.43
1:W:204:TYR:O	1:W:206:PRO:HD3	2.18	0.43
1:W:452:ARG:NH2	1:W:458:VAL:HG22	2.33	0.43
1:X:109:ILE:CD1	1:X:153:PRO:HB2	2.49	0.43
1:X:723:LYS:HG2	1:X:727:GLU:OE2	2.18	0.43
1:Y:164:GLN:OE1	1:Y:205:LEU:HG	2.18	0.43
1:Y:92:LEU:HB2	1:Y:94:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:128:ASP:C	1:A:129:PHE:CD1	3.39	0.43
1:A:401:VAL:HG11	1:A:406:TYR:CD2	2.53	0.43
1:B:485:GLU:HG2	1:B:486:LEU:H	1.81	0.43
1:B:597:ARG:HG3	1:B:600:ARG:NH2	2.34	0.43
1:C:65:VAL:CG1	1:C:110:THR:HG22	2.47	0.43
1:C:236:ARG:HA	1:C:241:VAL:O	2.18	0.43
1:C:305:GLU:O	1:C:306:LYS:HG3	2.24	0.43
1:D:65:VAL:HA	1:D:110:THR:HG22	2.14	0.43
1:D:14:HIS:O	1:D:53:VAL:HB	2.49	0.43
1:D:221:LEU:HD12	1:D:253:VAL:HG13	2.33	0.43
1:D:287:PRO:O	1:D:295:GLN:HB2	2.62	0.43
1:D:288:MET:HE1	1:D:312:PRO:O	2.19	0.43
1:E:146:GLU:OE2	1:E:164:GLN:NE2	2.98	0.43
1:E:14:HIS:HA	1:E:36:ILE:HB	2.11	0.43
1:E:229:LEU:HD23	1:E:266:GLU:HA	2.17	0.43
1:D:473:TYR:HD2	1:E:486:LEU:HB3	1.84	0.43
1:E:558:ALA:O	1:E:561:LEU:HB2	2.40	0.43
1:E:568:VAL:HG23	1:E:569:GLY:N	2.34	0.43
1:E:65:VAL:HA	1:E:110:THR:HA	2.15	0.43
1:E:777:LEU:HD11	1:F:783:LYS:CB	2.69	0.43
1:E:293:LYS:HD3	1:F:223:GLU:OE1	2.19	0.43
1:F:567:PHE:CZ	1:F:568:VAL:HG13	2.92	0.43
1:G:318:ARG:O	1:G:319:GLY:C	2.83	0.43
1:H:568:VAL:HG23	1:H:569:GLY:N	2.34	0.43
1:H:655:GLN:O	1:H:658:VAL:HG12	2.28	0.43
1:I:23:SER:CB	1:I:31:GLY:HA2	2.48	0.43
1:I:273:ILE:CD1	1:I:310:LEU:HG	2.49	0.43
1:I:285:LEU:HB2	1:I:315:ARG:HG3	3.00	0.43
1:I:38:GLN:H	1:I:38:GLN:HG2	1.70	0.43
1:I:539:LEU:HD22	1:I:643:VAL:HG13	2.01	0.43
1:J:337:LEU:HD11	1:J:352:GLN:O	2.19	0.43
1:J:547:PHE:CD2	1:J:561:LEU:HD23	2.77	0.43
1:J:579:VAL:HG12	1:J:580:ARG:N	2.33	0.43
1:K:151:TYR:HD2	1:K:152:ILE:CD1	3.53	0.43
1:K:335:LYS:HZ3	1:K:335:LYS:HB2	1.84	0.43
1:K:508:PRO:O	1:K:509:HIS:HD2	2.02	0.43
1:K:58:TYR:CD2	1:K:96:PRO:O	3.12	0.43
1:K:759:LEU:HD22	1:L:768:MET:HG3	1.99	0.43
1:L:126:LEU:HD13	1:L:157:VAL:HG21	2.01	0.43
1:L:125:ALA:HB3	1:L:139:ALA:O	2.19	0.43
1:L:220:ILE:C	1:L:222:THR:H	2.25	0.43
1:L:36:ILE:O	1:L:37:ARG:CG	2.67	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:391:GLN:HB2	1:L:398:VAL:HG22	2.44	0.43
1:M:114:VAL:HA	1:M:118:ASN:ND2	2.34	0.43
1:M:120:ALA:HB2	1:M:164:GLN:NE2	2.34	0.43
1:M:229:LEU:O	1:M:248:GLU:HA	2.18	0.43
1:M:277:GLY:O	1:M:279:ARG:N	2.52	0.43
1:M:395:THR:HB	1:M:397:LYS:HB3	2.00	0.43
1:M:421:SER:O	1:M:423:VAL:N	2.52	0.43
1:M:55:PRO:O	1:M:56:ARG:HG2	2.18	0.43
1:N:60:ILE:CD1	1:N:60:ILE:H	2.24	0.43
1:O:169:LYS:HG3	1:O:170:GLN:H	1.84	0.43
1:O:175:ARG:HG3	1:O:215:LEU:HD23	1.99	0.43
1:O:164:GLN:HB3	1:O:204:TYR:HA	2.00	0.43
1:O:330:GLN:CB	1:O:379:ALA:HB3	2.43	0.43
1:Q:154:GLN:HG3	1:Q:155:LYS:N	2.34	0.43
1:Q:250:LEU:O	1:Q:250:LEU:HD23	2.17	0.43
1:Q:276:LEU:O	1:Q:277:GLY:C	2.57	0.43
1:Q:396:GLY:HA3	1:R:405:THR:HG23	2.01	0.43
1:Q:496:THR:O	1:Q:496:THR:CG2	2.65	0.43
1:Q:3:THR:CG2	1:Q:50:MET:HE2	2.48	0.43
1:Q:803:GLY:CA	1:Q:806:THR:HB	2.48	0.43
1:R:13:TYR:HD1	1:R:13:TYR:N	2.16	0.43
1:R:423:VAL:O	1:R:427:LEU:HG	2.19	0.43
1:R:61:VAL:HG13	1:R:65:VAL:HG21	2.01	0.43
1:S:18:VAL:H	1:S:48:VAL:CG1	2.19	0.43
1:S:330:GLN:HE22	1:S:360:ARG:HD2	1.84	0.43
1:S:794:LYS:O	1:S:798:MET:HG2	2.18	0.43
1:U:122:HIS:O	1:U:159:VAL:N	2.43	0.43
1:U:134:GLY:O	1:U:135:ASP:CB	2.64	0.43
1:V:175:ARG:HH21	1:V:263:VAL:HG13	1.84	0.43
1:W:179:ARG:HB2	1:W:179:ARG:HE	1.64	0.43
1:W:360:ARG:CG	1:W:361:GLY:N	2.82	0.43
1:W:470:VAL:HB	1:W:479:ARG:HG3	2.00	0.43
1:X:108:ASP:N	1:X:108:ASP:OD1	2.52	0.43
1:X:311:GLN:N	1:X:314:GLU:HG3	2.33	0.43
1:Y:335:LYS:HE2	1:Y:335:LYS:HB2	1.87	0.43
1:Z:120:ALA:CB	1:Z:164:GLN:NE2	2.70	0.43
1:Z:381:PRO:HA	1:Z:405:THR:CB	2.49	0.43
1:A:360:ARG:HD3	1:A:407:MET:HG2	2.01	0.42
1:A:719:THR:O	1:A:723:LYS:HB2	2.62	0.42
1:B:183:PHE:HD2	1:B:184:ASP:N	3.15	0.42
1:C:135:ASP:HB3	1:C:136:LYS:H	1.76	0.42
1:C:387:GLY:HA3	1:C:402:ILE:CG2	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:236:ARG:HH11	1:D:236:ARG:HB3	1.84	0.42
1:D:244:ARG:HB2	1:D:247:GLU:HG3	2.01	0.42
1:D:30:VAL:HG22	1:D:74:LEU:HG	2.21	0.42
1:D:38:GLN:HG2	1:D:38:GLN:H	1.59	0.42
1:D:527:ILE:CD1	1:D:529:ILE:HG23	2.37	0.42
1:D:575:ILE:HD12	1:D:603:VAL:HG13	5.96	0.42
1:E:327:SER:HB2	1:E:331:GLY:N	2.34	0.42
1:E:594:ASN:O	1:E:595:SER:C	2.67	0.42
1:F:123:LEU:CD1	1:F:143:TRP:HB2	2.49	0.42
1:F:471:TYR:O	1:F:493:GLU:HA	2.32	0.42
1:F:61:VAL:HG13	1:F:65:VAL:CG2	2.49	0.42
1:G:165:ALA:HB3	1:G:174:LEU:HD11	1.99	0.42
1:G:236:ARG:HH11	1:G:236:ARG:HB3	1.83	0.42
1:G:29:GLU:O	1:G:84:ARG:HD3	2.19	0.42
1:G:418:GLU:HG2	1:G:423:VAL:HG22	1.99	0.42
1:G:500:LEU:HD23	1:G:566:ASP:HA	2.01	0.42
1:G:644:GLU:HA	1:G:645:PRO:HD3	2.00	0.42
1:H:268:LEU:HD12	1:H:269:GLY:O	2.75	0.42
1:H:557:GLU:O	1:H:560:LYS:HB2	2.52	0.42
1:H:92:LEU:HB2	1:H:94:GLN:HG2	2.38	0.42
1:I:288:MET:HE2	1:I:288:MET:HB3	1.99	0.42
1:I:334:LEU:HD23	1:I:335:LYS:N	2.48	0.42
1:I:360:ARG:HG3	1:I:361:GLY:N	2.58	0.42
1:I:388:ILE:HD13	1:I:390:VAL:HG13	2.01	0.42
1:I:564:VAL:HG22	1:I:631:ASN:ND2	2.41	0.42
1:J:252:THR:N	1:J:254:GLN:NE2	2.62	0.42
1:J:337:LEU:HD12	1:J:339:PRO:O	2.22	0.42
1:J:18:VAL:CG1	1:J:48:VAL:HG22	2.35	0.42
1:K:69:THR:OG1	1:K:106:GLU:OE1	2.33	0.42
1:K:151:TYR:HD1	1:K:151:TYR:N	2.17	0.42
1:K:330:GLN:CG	1:K:379:ALA:HB3	2.61	0.42
1:K:409:THR:O	1:K:410:GLN:C	2.78	0.42
1:K:501:SER:HA	1:K:507:ARG:O	2.25	0.42
1:K:586:VAL:HG12	1:K:587:THR:O	2.72	0.42
1:L:9:ARG:CZ	1:L:15:TYR:HB3	2.59	0.42
1:L:220:ILE:O	1:L:253:VAL:HG22	2.20	0.42
1:M:235:PHE:CZ	1:M:264:TYR:CE1	3.07	0.42
1:M:90:ILE:HG21	1:M:154:GLN:HB2	2.00	0.42
1:M:9:ARG:CZ	1:M:15:TYR:HB3	2.66	0.42
1:N:215:LEU:HD12	1:N:259:HIS:CE1	2.53	0.42
1:O:154:GLN:HG3	1:O:155:LYS:N	2.34	0.42
1:O:227:LEU:CB	1:O:251:VAL:HG12	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:113:GLN:O	1:P:114:VAL:HG13	2.19	0.42
1:Q:194:GLU:HG2	1:Q:195:GLU:H	1.83	0.42
1:Q:335:LYS:HB2	1:Q:335:LYS:HZ3	1.84	0.42
1:Q:547:PHE:CD2	1:Q:561:LEU:HD23	2.54	0.42
1:R:121:LEU:HD12	1:R:145:PHE:HD2	1.83	0.42
1:R:2:ALA:HB3	1:R:46:ALA:O	2.19	0.42
1:R:545:TRP:HB2	1:R:633:LEU:HD21	2.01	0.42
1:T:330:GLN:HG3	1:T:379:ALA:CB	2.49	0.42
1:U:176:LEU:HA	1:U:210:GLU:O	2.18	0.42
1:U:469:GLN:HB3	1:U:496:THR:CG2	2.48	0.42
1:U:693:ILE:HD12	1:U:696:GLN:NE2	2.34	0.42
1:V:30:VAL:HG22	1:V:74:LEU:CD1	2.49	0.42
1:W:130:GLU:CA	1:W:137:VAL:HG13	2.48	0.42
1:W:296:LEU:N	1:W:296:LEU:HD22	2.34	0.42
1:W:338:GLN:HB3	1:W:339:PRO:HD3	2.01	0.42
1:V:630:GLN:OE1	1:W:520:PRO:HB3	2.19	0.42
1:W:65:VAL:HA	1:W:110:THR:HA	2.01	0.42
1:X:279:ARG:HA	1:X:323:VAL:HG22	2.00	0.42
1:Y:330:GLN:OE1	1:Y:360:ARG:HD3	2.19	0.42
1:Y:523:PHE:HE1	1:Y:568:VAL:HG12	1.80	0.42
1:Z:501:SER:HB3	1:Z:508:PRO:HA	2.00	0.42
1:Z:3:THR:CG2	1:Z:50:MET:CE	2.95	0.42
1:A:11:PRO:HB2	1:A:12:PRO:HD3	2.00	0.42
1:A:226:ALA:O	1:A:269:GLY:HA2	2.53	0.42
1:A:235:PHE:CE1	1:A:264:TYR:CE1	3.13	0.42
1:A:256:THR:HG23	1:A:256:THR:O	2.19	0.42
1:A:402:ILE:N	1:A:402:ILE:HD13	2.30	0.42
1:A:381:PRO:HA	1:A:405:THR:CB	2.89	0.42
1:A:58:TYR:CD1	1:A:99:LEU:HD12	3.14	0.42
1:A:812:VAL:HG12	1:A:812:VAL:O	2.30	0.42
1:B:14:HIS:HB3	1:B:56:ARG:CB	2.38	0.42
1:B:194:GLU:HG2	1:B:195:GLU:N	2.47	0.42
1:B:335:LYS:HB2	1:B:335:LYS:HE2	1.89	0.42
1:B:409:THR:O	1:B:410:GLN:C	2.58	0.42
1:B:682:GLN:O	1:B:683:GLU:C	2.58	0.42
1:C:251:VAL:HG21	1:C:257:GLU:CG	2.49	0.42
1:C:335:LYS:HE2	1:C:335:LYS:HB2	1.93	0.42
1:C:60:ILE:HG22	1:C:66:SER:CA	2.64	0.42
1:C:90:ILE:N	1:C:90:ILE:HD13	2.33	0.42
1:D:208:VAL:HG23	1:D:209:PHE:CD2	2.50	0.42
1:D:384:GLN:O	1:D:403:GLY:HA2	2.19	0.42
1:C:580:ARG:NH1	1:D:640:VAL:HG13	2.90	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:318:ARG:O	1:E:319:GLY:C	2.74	0.42
1:E:485:GLU:HG2	1:E:486:LEU:N	2.39	0.42
1:E:504:ARG:HD3	1:E:504:ARG:HA	1.91	0.42
1:F:108:ASP:OD1	1:F:108:ASP:N	2.52	0.42
1:F:252:THR:H	1:F:254:GLN:HE21	1.65	0.42
1:E:649:ARG:NH2	1:F:655:GLN:HG2	2.70	0.42
1:G:206:PRO:HD2	1:G:209:PHE:CD1	2.83	0.42
1:H:10:ILE:HB	1:H:13:TYR:CG	2.54	0.42
1:H:169:LYS:HB3	1:H:169:LYS:HE2	3.79	0.42
1:I:209:PHE:H	1:I:209:PHE:HD2	1.93	0.42
1:H:476:LYS:HG3	1:I:485:GLU:HG3	2.41	0.42
1:I:531:THR:HA	1:I:583:VAL:O	2.39	0.42
1:I:65:VAL:HA	1:I:110:THR:HA	2.03	0.42
1:J:179:ARG:HE	1:J:179:ARG:HB2	1.54	0.42
1:J:231:ALA:HB2	1:J:243:HIS:HD2	2.25	0.42
1:J:534:HIS:CD2	1:K:654:LEU:HG	2.76	0.42
1:K:155:LYS:HZ2	1:K:155:LYS:H	1.66	0.42
1:K:418:GLU:HG2	1:K:423:VAL:HG22	2.00	0.42
1:L:236:ARG:NH1	1:L:236:ARG:HB3	2.34	0.42
1:L:395:THR:HB	1:L:397:LYS:H	1.88	0.42
1:M:125:ALA:HB3	1:M:140:GLY:HA2	2.58	0.42
1:M:130:GLU:H	1:M:137:VAL:HG13	2.05	0.42
1:M:167:VAL:HG22	1:M:200:SER:O	2.19	0.42
1:M:302:VAL:HG21	1:M:308:PHE:CE2	2.54	0.42
1:M:385:ASN:HA	1:M:385:ASN:HD22	1.73	0.42
1:M:69:THR:HA	1:M:106:GLU:CB	2.49	0.42
1:N:15:TYR:O	1:N:34:THR:OG1	2.37	0.42
1:N:243:HIS:NE2	1:N:249:TRP:CE2	2.88	0.42
1:O:167:VAL:CB	1:O:201:VAL:O	2.52	0.42
1:O:235:PHE:O	1:O:243:HIS:N	2.53	0.42
1:O:328:GLU:O	1:O:329:GLN:C	2.56	0.42
1:O:6:ALA:HA	1:O:41:GLU:O	2.19	0.42
1:P:14:HIS:CB	1:P:56:ARG:CB	2.92	0.42
1:Q:459:SER:HA	1:Q:487:VAL:O	2.19	0.42
1:Q:760:GLU:HA	1:Q:760:GLU:OE1	2.19	0.42
1:Q:93:ALA:C	1:Q:95:ASP:H	2.23	0.42
1:R:340:LEU:HD21	1:R:352:GLN:HG2	1.99	0.42
1:Q:795:PHE:HZ	1:R:802:LEU:HD22	1.83	0.42
1:R:74:LEU:HD13	1:R:84:ARG:NH2	2.34	0.42
1:S:175:ARG:HB3	1:S:212:VAL:HB	2.01	0.42
1:S:2:ALA:HB3	1:S:46:ALA:O	2.19	0.42
1:S:327:SER:N	1:S:331:GLY:HA3	2.32	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:425:GLU:N	1:S:425:GLU:CD	2.70	0.42
1:T:385:ASN:HA	1:T:385:ASN:HD22	1.70	0.42
1:T:5:GLU:CG	1:T:43:VAL:HG21	2.49	0.42
1:U:518:LEU:HA	1:U:547:PHE:HD1	1.83	0.42
1:U:543:TYR:CE2	1:U:575:ILE:HG21	2.54	0.42
1:U:781:VAL:HG22	1:V:787:LEU:CD2	2.49	0.42
1:V:333:LEU:HD23	1:V:376:GLU:HA	2.01	0.42
1:W:474:ARG:HH22	1:X:384:GLN:HG2	1.84	0.42
1:X:400:ALA:HB2	1:X:491:PRO:HD3	2.01	0.42
1:X:70:GLN:HG2	1:X:104:VAL:HG12	2.00	0.42
1:Z:481:VAL:HG11	1:Z:487:VAL:CG1	2.48	0.42
1:Z:481:VAL:O	1:Z:481:VAL:HG13	2.20	0.42
1:A:121:LEU:HB2	1:A:145:PHE:CB	2.55	0.42
1:A:387:GLY:CA	1:A:402:ILE:HG22	2.37	0.42
1:A:419:LEU:CG	1:A:420:PRO:HD2	2.52	0.42
1:B:10:ILE:HD13	1:B:13:TYR:CD2	2.54	0.42
1:B:146:GLU:OE1	1:B:146:GLU:HA	2.19	0.42
1:B:252:THR:O	1:B:254:GLN:NE2	3.06	0.42
1:B:340:LEU:HG	1:B:353:ALA:CB	2.69	0.42
1:B:399:ARG:NH2	1:B:412:GLU:OE2	2.67	0.42
1:B:43:VAL:CG1	1:B:45:PHE:O	2.67	0.42
1:B:811:ALA:HB1	1:C:810:LEU:HG	2.23	0.42
1:C:154:GLN:HG3	1:C:155:LYS:H	1.85	0.42
1:C:481:VAL:CG1	1:C:487:VAL:HG11	2.46	0.42
1:C:586:VAL:HG12	1:C:587:THR:O	2.18	0.42
1:C:660:LEU:O	1:C:663:GLU:HB3	2.45	0.42
1:C:770:LEU:CD1	1:C:774:ARG:HH22	2.96	0.42
1:D:472:ASP:HB3	1:D:477:ARG:HB2	2.16	0.42
1:E:100:TYR:CD2	1:E:101:PRO:HD2	2.55	0.42
1:E:116:LEU:C	1:E:118:ASN:N	2.82	0.42
1:E:167:VAL:HG13	1:E:202:GLY:H	1.82	0.42
1:E:191:VAL:CG1	1:E:192:THR:N	3.03	0.42
1:E:273:ILE:CD1	1:E:308:PHE:HB3	3.52	0.42
1:F:288:MET:CE	1:F:294:ASN:ND2	2.82	0.42
1:F:330:GLN:HE22	1:F:360:ARG:HD2	1.85	0.42
1:F:494:GLN:HA	1:F:494:GLN:NE2	2.33	0.42
1:F:511:ARG:NH2	1:F:517:LEU:HD11	2.51	0.42
1:F:84:ARG:HG2	1:F:85:HIS:ND1	2.35	0.42
1:G:69:THR:HA	1:G:106:GLU:HB3	2.32	0.42
1:G:116:LEU:CB	1:G:117:PRO:HD2	2.38	0.42
1:G:243:HIS:NE2	1:G:249:TRP:CE2	3.07	0.42
1:G:251:VAL:HA	1:G:254:GLN:NE2	2.33	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:343:GLY:HA2	1:G:348:LYS:C	2.51	0.42
1:G:771:ILE:HA	1:G:774:ARG:NH1	2.58	0.42
1:H:335:LYS:HE2	1:H:371:VAL:HG11	2.00	0.42
1:H:68:ASP:O	1:H:69:THR:HB	2.33	0.42
1:I:123:LEU:HD11	1:I:143:TRP:HB2	2.37	0.42
1:I:539:LEU:HD22	1:I:643:VAL:HG22	2.27	0.42
1:I:68:ASP:O	1:I:106:GLU:HB2	2.19	0.42
1:J:241:VAL:O	1:J:243:HIS:ND1	2.51	0.42
1:J:337:LEU:H	1:J:337:LEU:HD23	2.05	0.42
1:J:426:LEU:C	1:J:428:ASN:H	2.34	0.42
1:J:70:GLN:HE21	1:J:104:VAL:HG12	1.93	0.42
1:K:10:ILE:H	1:K:10:ILE:CD1	2.22	0.42
1:K:125:ALA:HB1	1:K:128:ASP:HB3	2.20	0.42
1:K:13:TYR:N	1:K:13:TYR:CD1	2.87	0.42
1:K:208:VAL:HG23	1:K:209:PHE:HD2	1.83	0.42
1:K:220:ILE:HD12	1:K:252:THR:HA	4.76	0.42
1:K:381:PRO:HA	1:K:405:THR:CB	2.49	0.42
1:L:337:LEU:HD12	1:L:339:PRO:O	2.56	0.42
1:L:409:THR:O	1:L:410:GLN:C	2.71	0.42
1:L:5:GLU:HA	1:L:7:ILE:HD11	3.44	0.42
1:L:32:PRO:HG2	1:M:11:PRO:HG2	2.01	0.42
1:M:120:ALA:HB2	1:M:164:GLN:HE22	1.84	0.42
1:M:335:LYS:HZ3	1:M:335:LYS:HB2	1.84	0.42
1:M:599:ILE:C	1:M:601:MET:N	2.72	0.42
1:M:89:GLU:HA	1:M:90:ILE:HD13	5.34	0.42
1:N:164:GLN:CD	1:N:204:TYR:CB	2.87	0.42
1:O:388:ILE:HD13	1:O:390:VAL:HG13	2.01	0.42
1:P:167:VAL:HG22	1:P:200:SER:O	2.19	0.42
1:P:564:VAL:HG13	1:P:631:ASN:HB3	2.01	0.42
1:Q:14:HIS:HB3	1:Q:56:ARG:CG	2.49	0.42
1:Q:504:ARG:HH11	1:Q:504:ARG:HA	1.84	0.42
1:Q:69:THR:HA	1:Q:106:GLU:HB2	2.01	0.42
1:R:176:LEU:O	1:R:196:TRP:HB2	2.19	0.42
1:Q:244:ARG:HB3	1:R:221:LEU:HD23	2.01	0.42
1:R:66:SER:H	1:R:111:PRO:HD3	1.84	0.42
1:R:67:ARG:HG2	1:R:108:ASP:HA	1.99	0.42
1:S:197:LEU:HD22	1:S:197:LEU:HA	1.96	0.42
1:R:697:SER:CA	1:S:706:LEU:HD23	2.49	0.42
1:T:185:ARG:HH22	1:T:207:ALA:HB3	1.83	0.42
1:T:339:PRO:HG2	1:T:370:LYS:HE2	2.00	0.42
1:T:380:ILE:O	1:T:380:ILE:HD12	2.19	0.42
1:U:252:THR:O	1:U:253:VAL:C	2.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:527:ILE:N	1:U:527:ILE:HD13	2.17	0.42
1:V:15:TYR:CE2	1:V:17:HIS:HB3	2.55	0.42
1:V:221:LEU:CD2	1:V:256:THR:HB	2.47	0.42
1:V:339:PRO:HD2	1:V:370:LYS:HB3	2.00	0.42
1:W:119:THR:HG22	1:W:120:ALA:H	1.84	0.42
1:W:129:PHE:HA	1:W:137:VAL:HG22	2.01	0.42
1:W:330:GLN:HE22	1:W:360:ARG:HD2	1.83	0.42
1:X:165:ALA:O	1:X:203:ALA:O	2.37	0.42
1:X:167:VAL:HG22	1:X:201:VAL:HA	2.00	0.42
1:X:332:LEU:HD11	1:X:379:ALA:HB2	2.00	0.42
1:Y:120:ALA:HB3	1:Y:162:ILE:HG13	2.00	0.42
1:Y:339:PRO:HD2	1:Y:370:LYS:HB3	2.00	0.42
1:Y:60:ILE:HG13	1:Y:92:LEU:O	2.19	0.42
1:Z:472:ASP:HA	1:Z:493:GLU:CB	2.49	0.42
1:Y:535:ALA:HA	1:Z:658:VAL:HG21	2.01	0.42
1:Z:663:GLU:O	1:Z:666:THR:HG22	2.19	0.42
1:A:176:LEU:HB2	1:A:196:TRP:CB	2.63	0.42
1:A:185:ARG:H	1:A:209:PHE:HZ	1.66	0.42
1:A:3:THR:CG2	1:A:50:MET:CE	3.04	0.42
1:B:529:ILE:HD12	1:B:529:ILE:O	2.19	0.42
1:B:564:VAL:HG22	1:B:631:ASN:ND2	2.37	0.42
1:B:606:PHE:HA	1:B:622:ALA:HA	2.28	0.42
1:C:252:THR:H	1:C:254:GLN:NE2	2.17	0.42
1:C:327:SER:O	1:C:329:GLN:N	3.57	0.42
1:C:382:LEU:HB2	1:C:404:SER:O	2.19	0.42
1:C:43:VAL:CG1	1:C:45:PHE:O	2.77	0.42
1:D:179:ARG:NH2	1:D:209:PHE:O	2.52	0.42
1:D:245:THR:OG1	1:E:170:GLN:OE1	2.84	0.42
1:D:600:ARG:CZ	1:D:622:ALA:HB3	2.49	0.42
1:D:687:ARG:O	1:D:691:GLN:HG3	2.19	0.42
1:D:84:ARG:HG3	1:D:85:HIS:ND1	2.34	0.42
1:E:108:ASP:N	1:E:108:ASP:OD1	2.58	0.42
1:E:109:ILE:CD1	1:E:153:PRO:CB	2.74	0.42
1:E:327:SER:N	1:E:331:GLY:HA3	2.68	0.42
1:E:464:HIS:CD2	1:E:484:PRO:HB3	2.71	0.42
1:F:281:TYR:O	1:F:282:CYS:HB3	2.19	0.42
1:F:569:GLY:O	1:F:573:LYS:HB2	2.19	0.42
1:G:123:LEU:HD11	1:G:143:TRP:HD1	2.10	0.42
1:G:273:ILE:CG1	1:G:308:PHE:HB3	2.86	0.42
1:G:30:VAL:HG22	1:G:74:LEU:CG	2.64	0.42
1:G:385:ASN:HA	1:G:385:ASN:HD22	1.69	0.42
1:G:67:ARG:HG2	1:G:108:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:243:HIS:NE2	1:H:249:TRP:CD2	2.87	0.42
1:H:394:LYS:HA	1:I:329:GLN:NE2	2.34	0.42
1:H:529:ILE:HD12	1:H:537:LEU:HB2	2.09	0.42
1:I:69:THR:HA	1:I:106:GLU:CB	2.71	0.42
1:I:185:ARG:HG2	1:I:209:PHE:HE2	2.34	0.42
1:I:244:ARG:O	1:I:247:GLU:HB2	2.39	0.42
1:I:490:ASP:O	1:I:491:PRO:C	2.56	0.42
1:I:532:ALA:HB1	1:J:593:LYS:HE2	2.01	0.42
1:H:127:LEU:HD12	1:I:64:PRO:HG3	2.26	0.42
1:I:808:ARG:O	1:I:812:VAL:HG23	2.38	0.42
1:J:67:ARG:NE	1:J:108:ASP:HB3	2.34	0.42
1:J:29:GLU:O	1:J:84:ARG:NH1	2.49	0.42
1:J:273:ILE:CD1	1:J:316:LEU:HD11	2.63	0.42
1:J:481:VAL:CG1	1:J:481:VAL:O	2.69	0.42
1:J:756:GLU:C	1:J:758:GLU:H	2.44	0.42
1:K:169:LYS:HG3	1:K:170:GLN:H	2.64	0.42
1:K:273:ILE:CG2	1:K:310:LEU:HD11	2.49	0.42
1:K:87:ASP:CG	1:K:88:GLN:N	3.01	0.42
1:L:564:VAL:HG22	1:L:631:ASN:HD22	1.82	0.42
1:L:93:ALA:C	1:L:95:ASP:H	2.31	0.42
1:M:36:ILE:HD11	1:M:58:TYR:HE1	1.85	0.42
1:N:60:ILE:HG12	1:N:92:LEU:O	2.19	0.42
1:P:17:HIS:CD2	1:P:18:VAL:HG22	2.54	0.42
1:P:284:ILE:CD1	1:P:302:VAL:HG22	2.50	0.42
1:P:502:ALA:HB2	1:P:511:ARG:HB3	2.02	0.42
1:P:575:ILE:CD1	1:P:575:ILE:N	2.82	0.42
1:O:722:ALA:HB1	1:P:732:ALA:HB2	2.00	0.42
1:Q:10:ILE:CG2	1:Q:11:PRO:HD2	2.49	0.42
1:Q:191:VAL:CG1	1:Q:192:THR:N	2.82	0.42
1:Q:273:ILE:HG12	1:Q:310:LEU:HG	2.02	0.42
1:Q:578:ARG:HB3	1:Q:602:ALA:O	2.19	0.42
1:R:260:VAL:O	1:R:262:ASP:N	2.52	0.42
1:R:352:GLN:O	1:R:353:ALA:C	2.57	0.42
1:R:36:ILE:HG21	1:R:99:LEU:HB2	2.00	0.42
1:S:10:ILE:HA	1:S:11:PRO:HD2	1.80	0.42
1:S:472:ASP:HA	1:S:493:GLU:HA	2.00	0.42
1:S:496:THR:O	1:S:496:THR:CG2	2.67	0.42
1:T:379:ALA:HB2	1:T:407:MET:HB3	2.01	0.42
1:V:541:LEU:HD12	1:V:543:TYR:OH	2.19	0.42
1:W:154:GLN:CG	1:W:155:LYS:HG3	2.46	0.42
1:W:472:ASP:CA	1:W:493:GLU:HB3	2.47	0.42
1:X:606:PHE:HB2	1:X:621:LYS:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Z:36:ILE:O	1:Z:37:ARG:HG3	2.20	0.42
1:A:759:LEU:CD1	1:B:764:LYS:HB3	2.54	0.42
1:B:10:ILE:HD13	1:B:13:TYR:CE2	2.55	0.42
1:B:124:LYS:HA	1:B:142:GLU:HA	2.63	0.42
1:B:396:GLY:CA	1:C:405:THR:HG23	2.56	0.42
1:B:681:GLU:HG3	1:B:685:ARG:HH21	4.70	0.42
1:C:204:TYR:HE2	1:C:206:PRO:HG3	1.82	0.42
1:C:220:ILE:O	1:C:220:ILE:HD12	2.20	0.42
1:C:469:GLN:HB2	1:C:562:PHE:CE1	2.61	0.42
1:C:586:VAL:HG13	1:C:590:ASP:OD2	2.20	0.42
1:B:535:ALA:HA	1:C:658:VAL:HG21	2.26	0.42
1:C:796:LYS:CA	1:C:799:THR:HG22	2.46	0.42
1:D:365:TYR:CE2	1:D:367:PRO:HA	2.74	0.42
1:C:715:ALA:HA	1:D:724:ALA:HB1	2.02	0.42
1:D:74:LEU:HD22	1:D:100:TYR:CE2	2.55	0.42
1:D:57:HIS:O	1:D:99:LEU:HD11	2.38	0.42
1:E:163:ILE:O	1:E:163:ILE:HD12	2.19	0.42
1:E:236:ARG:HB3	1:E:236:ARG:HH11	1.84	0.42
1:D:766:ARG:HD3	1:E:772:TYR:CG	2.59	0.42
1:F:398:VAL:H	1:G:384:GLN:CD	2.21	0.42
1:F:65:VAL:HG13	1:F:110:THR:HG22	3.00	0.42
1:G:172:GLN:HG2	1:G:216:VAL:HG12	2.34	0.42
1:G:311:GLN:H	1:G:314:GLU:HG3	1.82	0.42
1:G:326:LEU:HD21	1:G:333:LEU:CG	2.78	0.42
1:G:402:ILE:C	1:G:402:ILE:HD12	4.28	0.42
1:G:467:ALA:HB2	1:G:482:PHE:CD2	2.55	0.42
1:G:504:ARG:HD3	1:G:504:ARG:HA	1.86	0.42
1:H:90:ILE:HD12	1:H:154:GLN:HG2	5.41	0.42
1:I:607:GLU:H	1:I:622:ALA:HA	2.37	0.42
1:J:220:ILE:HD12	1:J:253:VAL:H	1.84	0.42
1:J:591:PHE:O	1:J:595:SER:N	2.52	0.42
1:I:708:GLU:HG3	1:J:716:VAL:HG11	2.31	0.42
1:J:786:GLN:O	1:J:789:ASN:HB2	2.19	0.42
1:K:22:ASN:ND2	1:L:39:ASP:HB3	2.47	0.42
1:K:235:PHE:HE1	1:K:237:ASP:HA	1.81	0.42
1:K:281:TYR:O	1:K:282:CYS:HB3	2.18	0.42
1:K:534:HIS:CD2	1:L:654:LEU:HG	2.54	0.42
1:K:554:ASP:HA	1:K:555:PRO:HD3	1.87	0.42
1:L:268:LEU:CD1	1:L:269:GLY:H	2.22	0.42
1:L:387:GLY:HA3	1:L:402:ILE:HA	2.02	0.42
1:L:802:LEU:HD12	1:L:806:THR:HG22	2.06	0.42
1:M:393:VAL:O	1:N:405:THR:HG21	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:398:VAL:N	1:N:384:GLN:OE1	2.53	0.42
1:N:419:LEU:HD12	1:N:494:GLN:NE2	2.35	0.42
1:O:601:MET:CG	1:O:622:ALA:HB2	2.44	0.42
1:P:558:ALA:O	1:P:561:LEU:HB2	2.19	0.42
1:Q:402:ILE:HD12	1:Q:402:ILE:C	2.40	0.42
1:R:354:GLY:O	1:R:356:CYS:N	2.52	0.42
1:R:501:SER:HB3	1:R:507:ARG:O	2.20	0.42
1:R:70:GLN:HG3	1:R:70:GLN:O	2.20	0.42
1:S:461:ARG:O	1:S:463:PRO:HD3	2.20	0.42
1:T:251:VAL:HG23	1:T:254:GLN:NE2	2.34	0.42
1:T:325:VAL:O	1:T:325:VAL:HG13	2.19	0.42
1:T:579:VAL:HG22	1:T:599:ILE:HG23	2.00	0.42
1:S:788:ALA:HB1	1:T:794:LYS:HG3	2.01	0.42
1:U:326:LEU:O	1:U:328:GLU:HG2	2.19	0.42
1:V:132:LYS:HG3	1:V:133:ASN:H	1.84	0.42
1:V:633:LEU:C	1:V:633:LEU:HD23	2.40	0.42
1:W:122:HIS:O	1:W:158:GLU:HA	2.19	0.42
1:W:229:LEU:HD23	1:W:266:GLU:HA	2.02	0.42
1:W:328:GLU:OE1	1:W:361:GLY:O	2.36	0.42
1:W:480:VAL:HB	1:W:558:ALA:HB1	2.02	0.42
1:Y:327:SER:HB2	1:Y:330:GLN:C	2.39	0.42
1:Z:485:GLU:HG2	1:Z:486:LEU:H	1.81	0.42
1:A:520:PRO:HA	1:A:546:HIS:HB3	2.02	0.42
1:A:689:GLU:O	1:A:693:ILE:HG12	2.20	0.42
1:A:70:GLN:HE21	1:A:104:VAL:HG12	2.01	0.42
1:B:38:GLN:HG2	1:B:38:GLN:H	1.67	0.42
1:B:416:GLU:HB2	1:B:454:LYS:HB3	2.09	0.42
1:C:116:LEU:CB	1:C:117:PRO:HD2	2.41	0.42
1:C:234:ASN:ND2	1:C:245:THR:H	2.25	0.42
1:C:275:THR:O	1:C:305:GLU:HA	2.19	0.42
1:C:328:GLU:HG3	1:C:329:GLN:N	4.74	0.42
1:C:517:LEU:O	1:C:545:TRP:HH2	2.03	0.42
1:D:64:PRO:HA	1:D:111:PRO:CD	2.75	0.42
1:D:199:ARG:HH21	1:D:258:ALA:HB3	1.84	0.42
1:D:335:LYS:HE2	1:D:335:LYS:HB2	1.93	0.42
1:D:504:ARG:HA	1:D:504:ARG:HD3	1.90	0.42
1:E:334:LEU:O	1:E:374:VAL:HB	2.19	0.42
1:E:384:GLN:H	1:E:384:GLN:HE21	1.66	0.42
1:E:507:ARG:CB	1:E:510:ALA:HB2	2.80	0.42
1:E:62:ALA:O	1:E:93:ALA:HB2	2.31	0.42
1:F:150:THR:HG23	1:F:151:TYR:N	2.40	0.42
1:F:177:ARG:H	1:F:212:VAL:HG23	1.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:385:ASN:HA	1:F:385:ASN:HD22	1.72	0.42
1:F:46:ALA:H	1:F:47:PRO:HD3	1.89	0.42
1:E:653:ALA:HB2	1:F:659:GLN:HE22	2.29	0.42
1:G:176:LEU:HB2	1:G:196:TRP:CB	2.52	0.42
1:G:276:LEU:CD1	1:G:278:PRO:HD2	2.49	0.42
1:G:288:MET:HB3	1:G:294:ASN:HA	2.09	0.42
1:G:30:VAL:HG22	1:G:74:LEU:HD11	2.02	0.42
1:G:352:GLN:O	1:G:353:ALA:C	2.96	0.42
1:G:391:GLN:HB2	1:G:398:VAL:HG22	2.19	0.42
1:I:109:ILE:CD1	1:I:153:PRO:CB	2.84	0.42
1:I:324:TYR:O	1:I:365:TYR:N	2.46	0.42
1:I:333:LEU:HD23	1:I:376:GLU:HA	2.37	0.42
1:I:337:LEU:HG	1:I:337:LEU:O	2.19	0.42
1:I:579:VAL:HG12	1:I:580:ARG:N	2.34	0.42
1:J:249:TRP:CD1	1:J:249:TRP:N	2.87	0.42
1:K:121:LEU:HB2	1:K:145:PHE:CB	2.45	0.42
1:K:547:PHE:CD2	1:K:561:LEU:HD23	2.73	0.42
1:K:595:SER:O	1:K:599:ILE:HG12	2.93	0.42
1:K:594:ASN:HB2	1:K:598:ILE:CD1	2.50	0.42
1:J:719:THR:HG22	1:K:728:SER:HA	2.01	0.42
1:L:126:LEU:HB2	1:L:157:VAL:HG23	2.00	0.42
1:L:580:ARG:HH22	1:M:595:SER:CB	2.31	0.42
1:M:267:VAL:O	1:M:268:LEU:HB2	2.20	0.42
1:M:5:GLU:O	1:M:41:GLU:O	2.38	0.42
1:M:808:ARG:O	1:M:812:VAL:HG23	2.26	0.42
1:N:176:LEU:HA	1:N:210:GLU:O	2.20	0.42
1:N:239:ARG:HH21	1:N:257:GLU:HG2	1.85	0.42
1:N:286:ASP:N	1:N:286:ASP:OD1	2.53	0.42
1:O:650:THR:OG1	1:P:655:GLN:NE2	2.51	0.42
1:O:750:ALA:C	1:O:752:ALA:H	2.23	0.42
1:P:220:ILE:O	1:P:253:VAL:HG22	2.19	0.42
1:R:62:ALA:O	1:R:93:ALA:HB2	2.20	0.42
1:R:30:VAL:HG22	1:R:74:LEU:CD1	2.50	0.42
1:S:296:LEU:N	1:S:296:LEU:HD22	2.35	0.42
1:T:65:VAL:CG1	1:T:110:THR:HG22	2.50	0.42
1:V:122:HIS:O	1:V:158:GLU:HA	2.20	0.42
1:V:380:ILE:HA	1:V:381:PRO:HD3	1.79	0.42
1:W:574:ALA:HB3	1:W:575:ILE:HD13	2.00	0.42
1:W:714:MET:HE2	1:W:714:MET:O	2.19	0.42
1:X:183:PHE:CD2	1:X:184:ASP:N	2.81	0.42
1:X:228:HIS:NE2	1:X:248:GLU:OE1	2.53	0.42
1:X:277:GLY:HA2	1:X:305:GLU:N	2.35	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:501:SER:HB3	1:X:508:PRO:HA	2.01	0.42
1:Y:402:ILE:HD12	1:Y:402:ILE:C	2.40	0.42
1:Y:3:THR:HG22	1:Y:50:MET:CE	2.50	0.42
1:Z:92:LEU:HB2	1:Z:94:GLN:HG2	2.01	0.42
1:A:121:LEU:O	1:A:144:LEU:HA	2.61	0.42
1:A:273:ILE:HG13	1:A:308:PHE:HB3	2.13	0.42
1:A:279:ARG:HG3	1:A:280:HIS:HD2	1.84	0.42
1:B:132:LYS:HD3	1:B:152:ILE:HD12	2.02	0.42
1:B:389:TYR:CZ	1:B:457:VAL:HA	2.52	0.42
1:B:529:ILE:HD12	1:B:537:LEU:HB2	2.01	0.42
1:B:84:ARG:HG3	1:B:85:HIS:ND1	2.81	0.42
1:C:208:VAL:HG23	1:C:209:PHE:HD2	1.97	0.42
1:D:122:HIS:CG	1:D:159:VAL:HB	2.83	0.42
1:C:474:ARG:HH22	1:D:384:GLN:HG2	1.84	0.42
1:D:387:GLY:N	1:D:402:ILE:HG22	2.35	0.42
1:D:450:ALA:HB1	1:D:451:PRO:CD	2.50	0.42
1:E:130:GLU:HA	1:E:137:VAL:N	2.19	0.42
1:E:177:ARG:H	1:E:212:VAL:HG23	2.53	0.42
1:E:185:ARG:NH2	1:E:207:ALA:HB3	2.51	0.42
1:E:398:VAL:HG11	1:E:415:TRP:CD2	2.69	0.42
1:E:415:TRP:CZ3	1:E:417:LYS:HB3	2.55	0.42
1:E:60:ILE:HB	1:E:93:ALA:HA	2.02	0.42
1:F:660:LEU:HA	1:F:663:GLU:HB3	2.18	0.42
1:F:663:GLU:O	1:F:667:ASN:HB2	3.03	0.42
1:F:70:GLN:HE21	1:F:104:VAL:HG12	2.00	0.42
1:G:395:THR:HB	1:G:397:LYS:H	1.85	0.42
1:G:490:ASP:HB2	1:G:493:GLU:OE1	2.20	0.42
1:G:587:THR:HG23	1:G:590:ASP:HB2	2.38	0.42
1:H:190:ARG:O	1:H:191:VAL:HG23	2.19	0.42
1:H:354:GLY:O	1:H:356:CYS:N	2.53	0.42
1:H:458:VAL:CG1	1:H:489:LEU:HD12	2.50	0.42
1:I:65:VAL:CG1	1:I:110:THR:HG22	2.49	0.42
1:I:152:ILE:HD13	1:I:152:ILE:N	2.66	0.42
1:I:504:ARG:HD3	1:I:504:ARG:HA	1.80	0.42
1:H:649:ARG:NH2	1:I:655:GLN:HG2	2.34	0.42
1:J:383:ASP:HB2	1:J:386:GLU:HG2	2.02	0.42
1:J:46:ALA:H	1:J:47:PRO:HD3	1.83	0.42
1:K:133:ASN:ND2	1:K:133:ASN:H	2.44	0.42
1:K:251:VAL:HG23	1:K:254:GLN:HE21	1.86	0.42
1:J:474:ARG:HA	1:K:385:ASN:OD1	2.19	0.42
1:M:276:LEU:HB3	1:M:280:HIS:CG	2.54	0.42
1:M:394:LYS:HG2	1:N:329:GLN:HG3	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:796:LYS:HE3	1:M:800:GLU:OE2	2.22	0.42
1:N:275:THR:CG2	1:N:320:ILE:HG22	2.50	0.42
1:N:568:VAL:HG23	1:N:569:GLY:N	2.33	0.42
1:O:689:GLU:O	1:O:689:GLU:HG2	2.20	0.42
1:P:287:PRO:O	1:P:295:GLN:CB	2.65	0.42
1:P:320:ILE:N	1:P:320:ILE:CD1	2.82	0.42
1:P:679:ARG:HG3	1:Q:691:GLN:NE2	2.34	0.42
1:Q:580:ARG:NH1	1:Q:581:GLY:HA2	2.35	0.42
1:R:109:ILE:HG13	1:R:109:ILE:O	2.20	0.42
1:R:165:ALA:CB	1:R:174:LEU:HD11	2.50	0.42
1:R:389:TYR:HB2	1:R:415:TRP:O	2.19	0.42
1:R:330:GLN:CD	1:R:407:MET:HG3	2.40	0.42
1:R:539:LEU:HA	1:R:642:SER:O	2.19	0.42
1:S:183:PHE:HA	1:S:190:ARG:HD3	2.01	0.42
1:S:606:PHE:HA	1:S:623:ARG:H	1.85	0.42
1:S:768:MET:C	1:S:770:LEU:H	2.23	0.42
1:T:115:VAL:HB	1:T:148:PRO:HA	2.02	0.42
1:T:152:ILE:HD13	1:T:154:GLN:O	2.19	0.42
1:T:5:GLU:HG2	1:T:43:VAL:CG2	2.49	0.42
1:T:747:LYS:HB3	1:T:751:LEU:HD12	2.02	0.42
1:T:32:PRO:HG2	1:U:11:PRO:CG	2.50	0.42
1:U:244:ARG:O	1:U:247:GLU:HB2	2.19	0.42
1:V:13:TYR:HD1	1:V:13:TYR:N	2.17	0.42
1:V:230:ARG:HB3	1:V:230:ARG:HH11	1.85	0.42
1:V:285:LEU:HD21	1:V:317:GLU:HB2	2.01	0.42
1:V:469:GLN:HB3	1:V:496:THR:CG2	2.49	0.42
1:W:311:GLN:N	1:W:314:GLU:HG3	2.35	0.42
1:W:425:GLU:H	1:W:425:GLU:CD	2.22	0.42
1:W:69:THR:HA	1:W:106:GLU:HB3	2.02	0.42
1:X:119:THR:HG23	1:X:163:ILE:HG23	2.01	0.42
1:X:551:ASN:HB3	1:X:554:ASP:HB3	2.00	0.42
1:X:557:GLU:O	1:X:560:LYS:HB2	2.19	0.42
1:Y:419:LEU:HD23	1:Y:421:SER:N	2.32	0.42
1:Y:474:ARG:HH12	1:Z:384:GLN:HG2	1.84	0.42
1:Z:338:GLN:HB3	1:Z:339:PRO:CD	2.43	0.42
1:A:335:LYS:HB3	1:A:372:GLU:O	2.20	0.42
1:A:549:LEU:HD12	1:A:552:ARG:HA	2.31	0.42
1:A:709:LEU:HD13	1:M:701:LYS:HG3	183.52	0.42
1:B:119:THR:HG22	1:B:120:ALA:H	1.86	0.42
1:B:217:ASP:OD1	1:B:257:GLU:O	2.37	0.42
1:B:660:LEU:HA	1:B:663:GLU:CB	2.56	0.42
1:C:194:GLU:HG2	1:C:195:GLU:H	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:220:ILE:C	1:C:222:THR:H	2.50	0.42
1:C:224:LYS:C	1:C:272:PRO:HD3	2.54	0.42
1:C:273:ILE:CG2	1:C:310:LEU:HD11	2.51	0.42
1:C:23:SER:HB3	1:C:31:GLY:C	2.44	0.42
1:C:579:VAL:O	1:C:583:VAL:HG23	2.19	0.42
1:C:660:LEU:HA	1:C:663:GLU:CB	2.85	0.42
1:C:802:LEU:HB2	1:C:806:THR:HG21	2.02	0.42
1:D:182:CYS:SG	1:D:208:VAL:CB	3.08	0.42
1:D:267:VAL:O	1:D:268:LEU:HB2	2.29	0.42
1:D:734:ARG:HG2	1:E:742:LEU:HD12	2.02	0.42
1:C:807:ILE:HD13	1:D:806:THR:CG2	2.49	0.42
1:E:13:TYR:CD1	1:E:13:TYR:N	2.88	0.42
1:E:398:VAL:H	1:F:384:GLN:CD	2.22	0.42
1:E:729:ARG:CZ	1:E:729:ARG:HB2	2.84	0.42
1:F:124:LYS:O	1:F:156:GLU:HB3	2.25	0.42
1:F:327:SER:O	1:F:331:GLY:N	3.75	0.42
1:G:135:ASP:HB3	1:G:136:LYS:H	1.65	0.42
1:G:220:ILE:O	1:G:253:VAL:HG22	2.32	0.42
1:H:13:TYR:N	1:H:13:TYR:HD1	2.18	0.42
1:H:183:PHE:HD2	1:H:184:ASP:N	2.31	0.42
1:H:206:PRO:HB2	1:H:209:PHE:CD2	2.58	0.42
1:H:687:ARG:O	1:H:690:ARG:HB3	2.20	0.42
1:G:759:LEU:CD1	1:H:764:LYS:HB3	2.76	0.42
1:H:573:LYS:HD2	1:I:542:ALA:HB2	2.02	0.42
1:J:184:ASP:O	1:J:187:GLY:O	2.38	0.42
1:J:530:GLU:OE1	1:K:592:HIS:HE1	2.03	0.42
1:K:161:GLU:CD	1:K:161:GLU:H	2.23	0.42
1:K:341:GLU:HG2	1:K:370:LYS:HD3	2.21	0.42
1:K:481:VAL:O	1:K:481:VAL:CG1	2.68	0.42
1:L:13:TYR:N	1:L:13:TYR:HD1	2.19	0.42
1:L:196:TRP:HA	1:L:196:TRP:CE3	2.55	0.42
1:L:352:GLN:O	1:L:353:ALA:C	2.69	0.42
1:M:273:ILE:HG23	1:M:310:LEU:HD11	2.02	0.42
1:M:36:ILE:HD13	1:M:99:LEU:CD1	5.64	0.42
1:M:402:ILE:HD13	1:M:402:ILE:N	4.13	0.42
1:M:14:HIS:O	1:M:53:VAL:O	2.37	0.42
1:M:543:TYR:CE2	1:M:575:ILE:CG2	2.96	0.42
1:N:19:LEU:HA	1:N:32:PRO:HB2	2.00	0.42
1:N:164:GLN:NE2	1:N:204:TYR:HB2	2.35	0.42
1:N:229:LEU:CD2	1:N:266:GLU:HA	2.49	0.42
1:N:318:ARG:O	1:N:321:GLN:HG2	2.20	0.42
1:N:399:ARG:HH11	1:N:399:ARG:HG2	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:496:THR:O	1:N:496:THR:CG2	2.68	0.42
1:N:540:GLN:HB2	1:N:642:SER:HB3	2.02	0.42
1:O:332:LEU:CD2	1:O:407:MET:HB2	2.47	0.42
1:O:67:ARG:CD	1:O:108:ASP:HB3	2.50	0.42
1:P:224:LYS:HA	1:P:272:PRO:CG	2.42	0.42
1:P:327:SER:CB	1:P:331:GLY:CA	2.76	0.42
1:Q:165:ALA:HB3	1:Q:174:LEU:HD11	2.01	0.42
1:Q:224:LYS:HA	1:Q:272:PRO:CG	2.36	0.42
1:Q:533:ASP:OD1	1:Q:533:ASP:N	2.52	0.42
1:Q:56:ARG:HD2	1:Q:99:LEU:HD21	2.01	0.42
1:R:419:LEU:CD2	1:R:422:GLY:H	2.32	0.42
1:R:523:PHE:CD1	1:R:545:TRP:NE1	2.88	0.42
1:S:327:SER:CA	1:S:331:GLY:HA3	2.50	0.42
1:S:523:PHE:CD1	1:S:568:VAL:HG12	2.54	0.42
1:T:279:ARG:O	1:T:323:VAL:N	2.51	0.42
1:T:72:SER:OG	1:T:102:GLY:O	2.37	0.42
1:U:164:GLN:HB3	1:U:204:TYR:HA	2.02	0.42
1:U:408:LEU:N	1:U:408:LEU:HD12	2.28	0.42
1:U:766:ARG:O	1:U:770:LEU:HB2	2.19	0.42
1:V:70:GLN:HB3	1:V:104:VAL:H	1.85	0.42
1:V:19:LEU:HD23	1:V:32:PRO:HB2	2.01	0.42
1:V:360:ARG:CG	1:V:361:GLY:N	2.82	0.42
1:U:654:LEU:HD11	1:V:662:ILE:HG21	2.01	0.42
1:W:220:ILE:HD11	1:W:251:VAL:HG22	2.02	0.42
1:W:335:LYS:HG2	1:W:373:VAL:HG13	2.01	0.42
1:X:191:VAL:HG13	1:X:192:THR:H	1.84	0.42
1:Y:116:LEU:C	1:Y:118:ASN:N	2.73	0.42
1:Y:3:THR:HG22	1:Y:50:MET:HE1	2.01	0.42
1:Y:415:TRP:CZ3	1:Y:417:LYS:HB3	2.54	0.42
1:Y:501:SER:HB3	1:Y:508:PRO:CA	2.45	0.42
1:Z:19:LEU:HA	1:Z:32:PRO:HB2	2.00	0.42
1:A:169:LYS:H	1:A:201:VAL:HG12	2.60	0.42
1:A:332:LEU:HD11	1:A:407:MET:HB3	2.01	0.42
1:A:524:THR:HA	1:A:542:ALA:HA	2.12	0.42
1:A:600:ARG:HB3	1:A:600:ARG:HE	2.04	0.42
1:A:651:ARG:HB2	1:A:651:ARG:HE	1.87	0.42
1:B:540:GLN:O	1:B:641:GLN:HG2	2.18	0.42
1:B:601:MET:HE3	1:B:606:PHE:HB3	2.44	0.42
1:B:603:VAL:HG21	1:B:638:VAL:HG21	2.02	0.42
1:B:49:ARG:NH2	1:C:10:ILE:HG12	6.84	0.42
1:C:177:ARG:HB3	1:C:210:GLU:OE2	2.48	0.42
1:C:324:TYR:HB2	1:C:365:TYR:O	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:426:LEU:HD23	1:C:426:LEU:HA	1.89	0.42
1:C:656:ARG:O	1:C:660:LEU:HD23	2.20	0.42
1:D:287:PRO:HG3	1:D:300:ARG:N	2.35	0.42
1:E:194:GLU:HG2	1:E:195:GLU:N	2.35	0.42
1:E:176:LEU:HA	1:E:210:GLU:O	2.20	0.42
1:E:227:LEU:HA	1:E:227:LEU:HD23	2.07	0.42
1:E:273:ILE:CD1	1:E:316:LEU:HD11	2.44	0.42
1:D:398:VAL:N	1:E:384:GLN:OE1	2.53	0.42
1:E:387:GLY:HA3	1:E:402:ILE:CG2	2.42	0.42
1:E:79:GLY:O	1:E:80:GLN:HG3	2.64	0.42
1:F:182:CYS:SG	1:F:208:VAL:HG23	2.62	0.42
1:F:235:PHE:HE1	1:F:237:ASP:HA	1.96	0.42
1:F:287:PRO:O	1:F:295:GLN:HB2	2.20	0.42
1:F:36:ILE:C	1:F:36:ILE:HD13	2.39	0.42
1:F:387:GLY:CA	1:F:402:ILE:HG22	2.65	0.42
1:F:51:VAL:O	1:F:53:VAL:HG23	2.24	0.42
1:F:533:ASP:OD1	1:F:588:PHE:N	2.43	0.42
1:G:175:ARG:HA	1:G:196:TRP:O	2.23	0.42
1:G:226:ALA:O	1:G:269:GLY:HA2	2.20	0.42
1:G:382:LEU:H	1:G:405:THR:HA	1.84	0.42
1:G:16:ILE:HB	1:G:51:VAL:HB	2.01	0.42
1:H:244:ARG:O	1:H:247:GLU:HB2	2.19	0.42
1:H:518:LEU:HA	1:H:547:PHE:CD1	2.54	0.42
1:I:324:TYR:HB2	1:I:365:TYR:O	2.20	0.42
1:J:123:LEU:HD11	1:J:143:TRP:HD1	1.85	0.42
1:J:222:THR:C	1:J:224:LYS:N	3.07	0.42
1:J:282:CYS:SG	1:J:302:VAL:HG23	2.87	0.42
1:J:465:ASN:ND2	1:J:520:PRO:HD2	2.35	0.42
1:K:236:ARG:HB3	1:K:236:ARG:NH1	2.83	0.42
1:K:664:ILE:O	1:K:668:SER:HB2	2.33	0.42
1:L:120:ALA:O	1:L:161:GLU:HA	2.23	0.42
1:L:335:LYS:HG2	1:L:373:VAL:HG12	2.01	0.42
1:L:381:PRO:HA	1:L:405:THR:CB	2.49	0.42
1:L:596:ALA:O	1:L:600:ARG:HB2	2.19	0.42
1:M:150:THR:HG23	1:M:151:TYR:N	2.54	0.42
1:M:294:ASN:ND2	1:M:313:GLY:CA	2.80	0.42
1:M:33:LYS:HA	1:M:101:PRO:HG3	2.01	0.42
1:M:524:THR:HA	1:M:542:ALA:HA	2.02	0.42
1:M:766:ARG:HD2	1:N:768:MET:HE3	2.01	0.42
1:N:766:ARG:CG	1:O:772:TYR:CD1	3.03	0.42
1:O:152:ILE:O	1:O:152:ILE:HG12	2.20	0.42
1:O:472:ASP:HB3	1:O:477:ARG:HB2	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:495:PHE:CB	1:O:514:LEU:HD11	2.44	0.42
1:Q:234:ASN:N	1:Q:234:ASN:ND2	2.68	0.42
1:R:414:LEU:HB3	1:R:455:THR:HG21	2.01	0.42
1:S:72:SER:HA	1:S:84:ARG:HE	1.85	0.42
1:T:221:LEU:CD2	1:T:256:THR:CB	2.92	0.42
1:T:286:ASP:N	1:T:287:PRO:HD3	2.35	0.42
1:T:653:ALA:HB3	1:U:662:ILE:HD13	2.02	0.42
1:U:332:LEU:HD13	1:U:377:ARG:HG2	2.02	0.42
1:U:508:PRO:O	1:U:509:HIS:HD2	2.02	0.42
1:U:655:GLN:O	1:U:658:VAL:HG12	2.20	0.42
1:T:734:ARG:HG2	1:U:742:LEU:HD12	2.02	0.42
1:V:69:THR:HA	1:V:106:GLU:HB3	2.00	0.42
1:V:155:LYS:HB2	1:V:155:LYS:HZ2	1.85	0.42
1:V:564:VAL:CG2	1:V:631:ASN:ND2	2.82	0.42
1:X:135:ASP:HB3	1:X:136:LYS:H	1.58	0.42
1:X:58:TYR:CG	1:X:98:PRO:HA	2.55	0.42
1:Y:399:ARG:HA	1:Y:491:PRO:HG3	2.01	0.42
1:Y:526:VAL:HA	1:Y:539:LEU:O	2.20	0.42
1:Y:705:GLU:O	1:Y:709:LEU:HG	2.20	0.42
1:A:183:PHE:CD2	1:A:190:ARG:HD3	2.61	0.42
1:A:273:ILE:HG12	1:A:310:LEU:HD11	2.68	0.42
1:A:586:VAL:HG13	1:A:590:ASP:OD2	2.20	0.42
1:B:245:THR:HG22	1:B:246:GLY:N	2.34	0.42
1:B:391:GLN:HA	1:B:397:LYS:O	2.20	0.42
1:B:578:ARG:HB3	1:B:602:ALA:O	2.54	0.42
1:B:599:ILE:CD1	1:B:599:ILE:N	2.82	0.42
1:B:58:TYR:CD1	1:B:98:PRO:HA	2.58	0.42
1:C:235:PHE:CE1	1:C:264:TYR:CE1	3.08	0.42
1:C:703:ARG:HB2	1:C:703:ARG:CZ	2.86	0.42
1:D:122:HIS:O	1:D:159:VAL:N	2.38	0.42
1:D:280:HIS:HA	1:D:322:ASP:HA	2.14	0.42
1:D:326:LEU:O	1:D:328:GLU:N	3.44	0.42
1:D:333:LEU:HD12	1:D:359:ILE:HD11	3.09	0.42
1:D:419:LEU:CD2	1:D:422:GLY:H	2.70	0.42
1:D:623:ARG:CG	1:D:624:ASP:N	2.83	0.42
1:E:65:VAL:HA	1:E:110:THR:HG22	2.01	0.42
1:E:179:ARG:CZ	1:E:210:GLU:HB2	2.50	0.42
1:E:179:ARG:NH1	1:E:210:GLU:HG3	2.35	0.42
1:E:725:GLU:O	1:E:728:SER:HB3	2.20	0.42
1:F:567:PHE:CE2	1:F:568:VAL:HG13	2.98	0.42
1:G:272:PRO:HB3	1:G:309:PHE:CE2	2.65	0.42
1:G:325:VAL:HG13	1:G:325:VAL:O	2.44	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:336:ALA:HA	1:G:356:CYS:CB	2.66	0.42
1:G:337:LEU:N	1:G:337:LEU:HD23	2.35	0.42
1:G:339:PRO:HG3	1:H:278:PRO:HB3	2.01	0.42
1:G:36:ILE:HG21	1:G:99:LEU:HB2	2.02	0.42
1:G:558:ALA:O	1:G:561:LEU:HB2	2.23	0.42
1:H:279:ARG:O	1:H:322:ASP:HA	2.19	0.42
1:H:285:LEU:HB2	1:H:315:ARG:HG2	2.48	0.42
1:I:606:PHE:HA	1:I:622:ALA:HA	2.02	0.42
1:J:150:THR:HG23	1:J:151:TYR:N	2.34	0.42
1:J:318:ARG:O	1:J:319:GLY:C	2.68	0.42
1:J:468:VAL:HG13	1:J:514:LEU:O	2.29	0.42
1:J:529:ILE:HD11	1:J:537:LEU:HB2	2.01	0.42
1:J:573:LYS:HD2	1:K:542:ALA:CB	2.50	0.42
1:J:5:GLU:OE1	1:J:48:VAL:HG11	2.19	0.42
1:K:3:THR:CG2	1:K:50:MET:CE	3.18	0.42
1:K:697:SER:CA	1:L:706:LEU:HD23	2.49	0.42
1:L:199:ARG:NH2	1:L:238:LEU:HD12	2.58	0.42
1:L:326:LEU:O	1:L:328:GLU:CD	6.45	0.42
1:L:56:ARG:HD2	1:L:99:LEU:HD22	2.24	0.42
1:L:62:ALA:HB3	1:L:64:PRO:HD2	2.00	0.42
1:L:717:GLU:O	1:L:721:ASN:HB2	2.20	0.42
1:L:99:LEU:HD12	1:L:99:LEU:N	2.49	0.42
1:M:283:VAL:O	1:M:317:GLU:N	2.48	0.42
1:M:332:LEU:HD11	1:M:407:MET:HB3	2.17	0.42
1:M:58:TYR:CD1	1:M:98:PRO:HA	2.54	0.42
1:O:67:ARG:NE	1:O:108:ASP:HB3	2.34	0.42
1:O:229:LEU:O	1:O:248:GLU:HA	2.19	0.42
1:P:185:ARG:HG3	1:P:206:PRO:HB3	2.01	0.42
1:P:217:ASP:HB2	1:P:258:ALA:HA	2.01	0.42
1:P:645:PRO:HG2	1:P:651:ARG:HG3	2.02	0.42
1:P:653:ALA:CB	1:Q:662:ILE:HD12	2.36	0.42
1:R:336:ALA:H	1:R:374:VAL:HG23	1.85	0.42
1:R:330:GLN:CG	1:R:379:ALA:HB3	2.44	0.42
1:R:386:GLU:OE2	1:R:456:ARG:HD3	2.20	0.42
1:R:452:ARG:HG3	1:R:452:ARG:NH1	2.35	0.42
1:U:121:LEU:HD12	1:U:145:PHE:HD2	1.84	0.42
1:U:215:LEU:HD12	1:U:259:HIS:NE2	2.35	0.42
1:V:151:TYR:CD1	1:V:151:TYR:N	2.88	0.42
1:V:328:GLU:HG3	1:V:329:GLN:N	2.28	0.42
1:W:115:VAL:HA	1:W:147:GLY:O	2.20	0.42
1:W:398:VAL:HG12	1:W:491:PRO:HB3	2.02	0.42
1:W:490:ASP:O	1:W:491:PRO:C	2.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:573:LYS:HE3	1:W:522:PHE:CE1	2.54	0.42
1:Y:332:LEU:CD2	1:Y:358:LEU:HD11	2.47	0.42
1:Y:704:LYS:HG3	1:Z:713:SER:HA	2.02	0.42
1:Z:229:LEU:O	1:Z:248:GLU:HA	2.20	0.42
1:Z:289:GLY:HA3	1:Z:290:PRO:HD2	1.88	0.42
1:Z:382:LEU:HD22	1:Z:387:GLY:HA2	2.01	0.42
1:Z:529:ILE:HD12	1:Z:583:VAL:HG11	2.02	0.42
1:Z:578:ARG:HB3	1:Z:602:ALA:O	2.20	0.42
1:A:122:HIS:CE1	1:A:142:GLU:OE2	2.73	0.41
1:A:155:LYS:HB2	1:A:155:LYS:HZ2	1.84	0.41
1:A:165:ALA:CB	1:A:174:LEU:HD11	2.50	0.41
1:A:385:ASN:HA	1:A:385:ASN:HD22	1.67	0.41
1:A:392:ASP:O	1:A:396:GLY:N	2.41	0.41
1:A:469:GLN:HB2	1:A:562:PHE:CD1	2.55	0.41
1:A:700:GLU:OE2	1:A:703:ARG:HD2	2.20	0.41
1:B:151:TYR:CD2	1:B:152:ILE:HD13	2.56	0.41
1:C:10:ILE:HG22	1:C:12:PRO:HD2	2.02	0.41
1:C:129:PHE:O	1:C:137:VAL:O	2.38	0.41
1:C:235:PHE:CE1	1:C:237:ASP:HA	2.69	0.41
1:C:363:LEU:HD13	1:C:364:GLU:N	2.34	0.41
1:D:135:ASP:HB3	1:D:136:LYS:H	1.52	0.41
1:D:90:ILE:HD12	1:D:154:GLN:HB2	2.02	0.41
1:D:152:ILE:CD1	1:D:156:GLU:OE2	3.15	0.41
1:D:224:LYS:C	1:D:272:PRO:HD3	2.56	0.41
1:D:239:ARG:HH21	1:D:257:GLU:HB3	1.83	0.41
1:E:135:ASP:C	1:E:136:LYS:HG3	3.00	0.41
1:E:165:ALA:HB2	1:E:211:GLU:OE2	2.35	0.41
1:E:286:ASP:N	1:E:287:PRO:CD	2.82	0.41
1:E:543:TYR:CE1	1:E:575:ILE:HD12	2.55	0.41
1:E:597:ARG:HB3	1:E:597:ARG:NH1	2.34	0.41
1:F:335:LYS:HB3	1:F:372:GLU:O	2.36	0.41
1:G:419:LEU:HG	1:G:420:PRO:CD	2.18	0.41
1:H:10:ILE:HG23	1:H:11:PRO:HD2	2.02	0.41
1:H:116:LEU:CB	1:H:117:PRO:CD	2.90	0.41
1:H:129:PHE:O	1:H:137:VAL:O	2.38	0.41
1:G:245:THR:OG1	1:H:170:GLN:OE1	2.38	0.41
1:H:194:GLU:HG2	1:H:195:GLU:N	2.34	0.41
1:H:328:GLU:O	1:H:361:GLY:C	2.58	0.41
1:H:379:ALA:HB1	1:H:406:TYR:O	2.20	0.41
1:H:504:ARG:HA	1:H:504:ARG:HD3	2.06	0.41
1:H:539:LEU:HA	1:H:642:SER:O	2.19	0.41
1:H:55:PRO:O	1:H:56:ARG:HG2	2.37	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:145:PHE:HE2	1:I:150:THR:HA	2.34	0.41
1:I:220:ILE:HG13	1:I:256:THR:HA	2.00	0.41
1:I:332:LEU:HG	1:I:360:ARG:HD3	2.36	0.41
1:I:531:THR:OG1	1:I:535:ALA:HB3	2.20	0.41
1:J:128:ASP:OD1	1:J:155:LYS:HB3	2.19	0.41
1:J:169:LYS:H	1:J:201:VAL:HG12	1.84	0.41
1:J:184:ASP:OD2	1:J:209:PHE:HZ	2.03	0.41
1:J:245:THR:C	1:J:247:GLU:H	2.23	0.41
1:J:527:ILE:CD1	1:J:541:LEU:HG	2.50	0.41
1:K:327:SER:CA	1:K:331:GLY:HA3	2.87	0.41
1:K:529:ILE:CD1	1:K:583:VAL:HG11	2.46	0.41
1:L:198:VAL:HG12	1:L:198:VAL:O	2.19	0.41
1:L:418:GLU:OE2	1:L:452:ARG:NH1	2.60	0.41
1:K:476:LYS:CE	1:L:485:GLU:HG3	2.82	0.41
1:M:13:TYR:N	1:M:13:TYR:CD1	2.90	0.41
1:M:171:ASN:O	1:M:216:VAL:HG12	2.45	0.41
1:M:260:VAL:CA	1:M:264:TYR:H	2.32	0.41
1:M:286:ASP:N	1:M:287:PRO:HD3	2.53	0.41
1:M:337:LEU:HD23	1:M:337:LEU:N	2.42	0.41
1:M:343:GLY:HA2	1:M:348:LYS:HA	2.51	0.41
1:M:389:TYR:CE1	1:M:417:LYS:HG2	2.55	0.41
1:M:479:ARG:NH1	1:M:487:VAL:HG12	2.53	0.41
1:M:579:VAL:CG2	1:M:599:ILE:HD12	2.49	0.41
1:N:564:VAL:HG23	1:N:564:VAL:O	2.19	0.41
1:N:796:LYS:O	1:N:799:THR:HG22	2.20	0.41
1:O:134:GLY:O	1:O:135:ASP:HB2	2.19	0.41
1:O:130:GLU:HB2	1:O:136:LYS:CB	2.50	0.41
1:O:56:ARG:HH11	1:O:99:LEU:HD23	1.83	0.41
1:P:197:LEU:HD12	1:P:199:ARG:CZ	2.50	0.41
1:Q:284:ILE:HG12	1:Q:300:ARG:HB3	2.02	0.41
1:Q:338:GLN:OE1	1:R:278:PRO:HB2	2.18	0.41
1:Q:462:VAL:HG22	1:Q:468:VAL:HG21	2.00	0.41
1:Q:719:THR:HG22	1:R:728:SER:CA	2.50	0.41
1:R:14:HIS:CG	1:R:99:LEU:HD22	2.54	0.41
1:R:651:ARG:HE	1:R:651:ARG:HB2	1.74	0.41
1:R:60:ILE:HD13	1:R:93:ALA:HA	2.01	0.41
1:S:115:VAL:N	1:S:118:ASN:ND2	2.61	0.41
1:S:175:ARG:HA	1:S:196:TRP:O	2.20	0.41
1:S:235:PHE:CZ	1:S:264:TYR:CE1	3.08	0.41
1:S:285:LEU:CD1	1:S:315:ARG:HH11	2.32	0.41
1:S:335:LYS:HA	1:S:374:VAL:HG23	2.02	0.41
1:S:402:ILE:CD1	1:S:402:ILE:N	2.83	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:221:LEU:HA	1:T:253:VAL:HG13	2.01	0.41
1:T:260:VAL:HB	1:T:263:VAL:CA	2.42	0.41
1:T:481:VAL:O	1:T:481:VAL:CG1	2.68	0.41
1:T:692:LYS:HG2	1:T:696:GLN:HE21	1.85	0.41
1:T:760:GLU:O	1:T:764:LYS:HG2	2.20	0.41
1:U:132:LYS:HZ1	1:U:152:ILE:HG23	1.85	0.41
1:U:260:VAL:O	1:U:262:ASP:N	2.53	0.41
1:U:330:GLN:OE1	1:U:360:ARG:HD3	2.20	0.41
1:U:573:LYS:HD3	1:V:641:GLN:OE1	2.19	0.41
1:U:734:ARG:HG2	1:V:742:LEU:HD12	2.02	0.41
1:U:90:ILE:HD12	1:U:90:ILE:O	2.20	0.41
1:V:36:ILE:CD1	1:V:36:ILE:O	2.59	0.41
1:V:506:LYS:HE2	1:V:524:THR:O	2.20	0.41
1:V:606:PHE:HA	1:V:622:ALA:HA	2.01	0.41
1:W:221:LEU:HA	1:W:253:VAL:HG13	2.02	0.41
1:X:273:ILE:HG21	1:X:310:LEU:HD11	2.01	0.41
1:X:328:GLU:O	1:X:361:GLY:HA2	2.20	0.41
1:X:336:ALA:HA	1:X:356:CYS:CB	2.49	0.41
1:Y:130:GLU:HB3	1:Y:136:LYS:HA	1.97	0.41
1:Y:623:ARG:CG	1:Y:624:ASP:H	2.33	0.41
1:Y:758:GLU:O	1:Y:761:ARG:HB2	2.20	0.41
1:A:305:GLU:CD	1:M:298:GLN:HG3	315.22	0.41
1:A:465:ASN:HB3	1:A:519:GLY:HA3	2.01	0.41
1:A:490:ASP:O	1:A:491:PRO:C	2.58	0.41
1:A:662:ILE:HG21	1:Z:654:LEU:HD11	184.38	0.41
1:A:745:LYS:O	1:A:748:ALA:HB3	2.19	0.41
1:A:794:LYS:O	1:A:798:MET:CG	2.68	0.41
1:A:8:ILE:HA	1:A:40:ASN:HD22	1.85	0.41
1:B:252:THR:N	1:B:254:GLN:NE2	2.58	0.41
1:B:334:LEU:CD1	1:B:377:ARG:NH2	3.11	0.41
1:C:128:ASP:OD1	1:C:131:ASP:HB3	2.34	0.41
1:C:167:VAL:H	1:C:202:GLY:CA	2.30	0.41
1:C:239:ARG:NH2	1:C:257:GLU:OE2	2.53	0.41
1:C:402:ILE:C	1:C:402:ILE:HD12	2.76	0.41
1:C:540:GLN:HB2	1:C:642:SER:HB3	2.13	0.41
1:C:747:LYS:HA	1:C:747:LYS:HD3	2.13	0.41
1:D:289:GLY:HA3	1:D:290:PRO:HD2	1.82	0.41
1:D:77:ILE:HG12	1:D:80:GLN:H	2.37	0.41
1:E:518:LEU:HA	1:E:547:PHE:CD1	2.68	0.41
1:F:113:GLN:OE1	1:F:150:THR:N	3.27	0.41
1:F:594:ASN:O	1:F:595:SER:C	2.58	0.41
1:G:144:LEU:H	1:G:144:LEU:HD12	2.06	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:17:HIS:HB2	1:G:48:VAL:CG1	2.50	0.41
1:G:531:THR:OG1	1:G:535:ALA:HB3	2.49	0.41
1:G:67:ARG:O	1:G:91:ARG:HB2	2.39	0.41
1:H:13:TYR:CD1	1:H:13:TYR:N	2.88	0.41
1:H:235:PHE:HE1	1:H:237:ASP:HA	1.94	0.41
1:H:217:ASP:HB2	1:H:258:ALA:HA	2.07	0.41
1:H:339:PRO:HG3	1:I:278:PRO:HB3	2.01	0.41
1:H:36:ILE:C	1:H:36:ILE:HD13	2.38	0.41
1:H:465:ASN:ND2	1:H:520:PRO:HD2	2.36	0.41
1:H:505:PRO:HD2	1:H:507:ARG:HH12	1.85	0.41
1:H:468:VAL:HG22	1:H:515:CYS:HA	2.23	0.41
1:H:70:GLN:HG2	1:H:104:VAL:H	1.83	0.41
1:I:18:VAL:HG21	1:I:33:LYS:HE3	2.05	0.41
1:I:185:ARG:HG2	1:I:209:PHE:CE2	2.93	0.41
1:I:236:ARG:HH11	1:I:236:ARG:HB3	1.85	0.41
1:I:335:LYS:HE2	1:I:335:LYS:HB2	2.01	0.41
1:H:766:ARG:HD2	1:I:768:MET:HE3	2.46	0.41
1:J:132:LYS:HZ2	1:J:152:ILE:CD1	2.77	0.41
1:J:125:ALA:O	1:J:140:GLY:HA2	2.20	0.41
1:J:151:TYR:N	1:J:151:TYR:CD1	2.88	0.41
1:J:224:LYS:C	1:J:272:PRO:HD3	2.46	0.41
1:J:289:GLY:HA3	1:J:290:PRO:HD2	2.03	0.41
1:J:388:ILE:HD13	1:J:388:ILE:H	1.84	0.41
1:J:45:PHE:HB2	1:J:48:VAL:CG2	2.70	0.41
1:J:473:TYR:CE2	1:K:461:ARG:HB3	2.81	0.41
1:J:490:ASP:OD1	1:J:491:PRO:HD2	2.50	0.41
1:J:601:MET:HG2	1:J:622:ALA:CB	2.45	0.41
1:J:61:VAL:HG13	1:J:65:VAL:CG2	2.59	0.41
1:J:692:LYS:HG2	1:J:696:GLN:HE21	1.93	0.41
1:J:759:LEU:CD1	1:K:764:LYS:HB3	2.84	0.41
1:K:230:ARG:HB3	1:K:230:ARG:NH1	2.71	0.41
1:K:235:PHE:CZ	1:K:264:TYR:CE1	3.12	0.41
1:K:260:VAL:C	1:K:262:ASP:H	2.41	0.41
1:K:65:VAL:HA	1:K:110:THR:HA	2.02	0.41
1:K:808:ARG:O	1:K:812:VAL:HG23	2.31	0.41
1:M:220:ILE:O	1:M:220:ILE:HD12	3.91	0.41
1:M:328:GLU:OE1	1:M:361:GLY:O	2.91	0.41
1:M:409:THR:O	1:M:410:GLN:C	2.71	0.41
1:M:501:SER:HA	1:M:507:ARG:O	2.33	0.41
1:N:67:ARG:HE	1:N:107:LYS:C	2.23	0.41
1:N:230:ARG:NH1	1:N:265:GLU:OE1	2.53	0.41
1:O:114:VAL:HG12	1:O:118:ASN:HD21	1.84	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:326:LEU:HA	1:O:326:LEU:HD23	1.84	0.41
1:P:13:TYR:N	1:P:13:TYR:HD1	2.19	0.41
1:P:175:ARG:HB2	1:P:213:LEU:O	2.19	0.41
1:P:543:TYR:HB3	1:P:635:VAL:CG1	2.50	0.41
1:Q:67:ARG:CZ	1:Q:108:ASP:HB3	2.49	0.41
1:T:130:GLU:HG3	1:T:130:GLU:O	2.20	0.41
1:U:227:LEU:HD23	1:U:227:LEU:HA	1.84	0.41
1:T:338:GLN:OE1	1:U:278:PRO:HB2	2.20	0.41
1:V:354:GLY:HA3	1:W:328:GLU:HG3	2.03	0.41
1:W:394:LYS:HG2	1:X:329:GLN:CG	2.36	0.41
1:X:283:VAL:HG22	1:X:301:VAL:HG12	2.01	0.41
1:X:334:LEU:HD23	1:X:334:LEU:C	2.41	0.41
1:X:63:ASN:N	1:X:64:PRO:HD2	2.35	0.41
1:Y:115:VAL:HB	1:Y:148:PRO:HA	2.02	0.41
1:Y:229:LEU:HD23	1:Y:266:GLU:HA	2.01	0.41
1:Y:281:TYR:CE2	1:Y:367:PRO:HD2	2.55	0.41
1:Y:389:TYR:CZ	1:Y:457:VAL:HA	2.55	0.41
1:Y:533:ASP:O	1:Y:534:HIS:HB2	2.21	0.41
1:Z:17:HIS:HA	1:Z:49:ARG:O	2.20	0.41
1:Z:24:ASN:ND2	1:Z:30:VAL:HB	2.31	0.41
1:Z:60:ILE:N	1:Z:60:ILE:HD13	2.35	0.41
1:A:273:ILE:HG12	1:A:310:LEU:CD1	3.17	0.41
1:A:11:PRO:CA	1:A:38:GLN:HA	2.56	0.41
1:A:60:ILE:HG22	1:A:67:ARG:H	2.82	0.41
1:A:750:ALA:C	1:A:752:ALA:H	2.23	0.41
1:A:811:ALA:C	1:A:813:ALA:H	2.24	0.41
1:B:127:LEU:HB3	1:C:64:PRO:HD3	2.13	0.41
1:B:283:VAL:HG23	1:B:321:GLN:HE22	2.21	0.41
1:B:747:LYS:HA	1:B:747:LYS:HD3	1.70	0.41
1:B:83:LEU:HD12	1:B:87:ASP:HB2	2.16	0.41
1:C:398:VAL:HG11	1:C:415:TRP:CD2	2.55	0.41
1:C:414:LEU:HB3	1:C:455:THR:HG21	2.16	0.41
1:D:36:ILE:O	1:D:37:ARG:CG	2.76	0.41
1:D:409:THR:O	1:D:410:GLN:C	2.65	0.41
1:C:788:ALA:HB1	1:D:794:LYS:HB2	2.27	0.41
1:E:100:TYR:HB3	1:E:101:PRO:HD2	2.13	0.41
1:E:10:ILE:CD1	1:E:10:ILE:H	2.21	0.41
1:E:121:LEU:HB2	1:E:145:PHE:CB	2.47	0.41
1:E:261:PRO:HD2	1:E:264:TYR:HD1	2.02	0.41
1:E:310:LEU:H	1:E:310:LEU:HD12	1.85	0.41
1:E:363:LEU:HA	1:E:363:LEU:HD22	2.05	0.41
1:E:336:ALA:O	1:E:371:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:58:TYR:HD1	1:E:99:LEU:HD11	2.25	0.41
1:F:228:HIS:HB3	1:F:267:VAL:HB	2.02	0.41
1:F:807:ILE:HD11	1:G:806:THR:HG21	2.32	0.41
1:G:531:THR:HA	1:G:583:VAL:O	2.35	0.41
1:H:359:ILE:CD1	1:H:359:ILE:N	3.21	0.41
1:H:383:ASP:C	1:H:385:ASN:N	2.83	0.41
1:I:123:LEU:CD1	1:I:143:TRP:HB2	2.78	0.41
1:I:197:LEU:HD22	1:I:197:LEU:HA	1.83	0.41
1:I:506:LYS:HA	1:I:506:LYS:HD3	1.94	0.41
1:H:697:SER:CA	1:I:706:LEU:HD23	2.43	0.41
1:J:123:LEU:HD11	1:J:143:TRP:CD1	2.55	0.41
1:J:262:ASP:HB3	1:J:264:TYR:CZ	2.55	0.41
1:J:569:GLY:O	1:J:573:LYS:HB2	2.20	0.41
1:J:621:LYS:HA	1:J:621:LYS:HE3	2.01	0.41
1:J:729:ARG:CZ	1:J:729:ARG:HB2	2.49	0.41
1:K:135:ASP:HB3	1:K:136:LYS:H	1.65	0.41
1:K:267:VAL:O	1:K:268:LEU:HB2	2.20	0.41
1:K:496:THR:O	1:K:496:THR:HG23	2.20	0.41
1:K:90:ILE:CD1	1:K:90:ILE:N	3.79	0.41
1:L:291:ASP:C	1:L:293:LYS:N	2.85	0.41
1:L:327:SER:HB2	1:L:331:GLY:HA2	2.54	0.41
1:L:549:LEU:HG	1:L:561:LEU:HD11	2.01	0.41
1:A:329:GLN:CG	1:M:394:LYS:HG2	296.26	0.41
1:M:415:TRP:CH2	1:M:417:LYS:HB3	2.56	0.41
1:M:579:VAL:HG13	1:M:599:ILE:HD11	2.01	0.41
1:L:727:GLU:HG3	1:M:735:ILE:HD13	4.75	0.41
1:M:74:LEU:HD22	1:M:100:TYR:CE2	2.86	0.41
1:L:777:LEU:HD11	1:M:783:LYS:HB2	2.61	0.41
1:N:122:HIS:CG	1:N:159:VAL:HB	2.55	0.41
1:N:575:ILE:HD12	1:N:603:VAL:HG13	2.01	0.41
1:M:127:LEU:HB3	1:N:64:PRO:HD3	2.02	0.41
1:O:273:ILE:HD13	1:O:310:LEU:HD21	2.03	0.41
1:P:704:LYS:HD2	1:Q:712:MET:HB3	2.02	0.41
1:P:715:ALA:HA	1:Q:724:ALA:HB1	2.02	0.41
1:Q:9:ARG:CZ	1:Q:15:TYR:HB3	2.51	0.41
1:Q:284:ILE:CD1	1:Q:284:ILE:N	2.82	0.41
1:Q:338:GLN:CB	1:Q:339:PRO:CD	2.95	0.41
1:R:462:VAL:HB	1:R:485:GLU:O	2.20	0.41
1:Q:808:ARG:HE	1:R:809:ASP:HB2	1.85	0.41
1:S:123:LEU:HG	1:S:143:TRP:HB2	2.02	0.41
1:S:151:TYR:HD2	1:S:152:ILE:HD11	1.75	0.41
1:S:490:ASP:H	1:S:493:GLU:CG	2.28	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:60:ILE:HD13	1:S:93:ALA:CA	2.49	0.41
1:T:226:ALA:CB	1:T:252:THR:HB	2.51	0.41
1:T:600:ARG:O	1:T:604:PHE:HD1	2.03	0.41
1:U:564:VAL:CG2	1:U:631:ASN:ND2	2.82	0.41
1:V:165:ALA:CB	1:V:174:LEU:HD11	2.49	0.41
1:W:132:LYS:HG3	1:W:133:ASN:H	1.85	0.41
1:W:326:LEU:O	1:W:328:GLU:OE2	2.38	0.41
1:X:398:VAL:HG11	1:X:415:TRP:CE3	2.55	0.41
1:X:532:ALA:HB1	1:Y:593:LYS:HE2	2.03	0.41
1:Y:183:PHE:HE2	1:Y:188:LYS:HA	1.85	0.41
1:Y:175:ARG:NH2	1:Y:263:VAL:HG13	2.27	0.41
1:Y:402:ILE:HD12	1:Y:402:ILE:O	2.20	0.41
1:Y:536:ARG:HH21	1:Z:651:ARG:HD3	1.85	0.41
1:Z:122:HIS:O	1:Z:159:VAL:N	2.42	0.41
1:Z:328:GLU:O	1:Z:361:GLY:HA2	2.20	0.41
1:Z:523:PHE:CD1	1:Z:568:VAL:HG12	2.55	0.41
1:Z:623:ARG:CG	1:Z:624:ASP:N	2.83	0.41
1:A:251:VAL:CG2	1:A:254:GLN:NE2	2.84	0.41
1:A:661:ALA:HA	1:A:664:ILE:HG12	2.76	0.41
1:A:662:ILE:HD11	1:M:653:ALA:HB3	177.09	0.41
1:B:115:VAL:H	1:B:118:ASN:ND2	2.16	0.41
1:B:19:LEU:HB3	1:B:49:ARG:NH1	7.92	0.41
1:A:338:GLN:OE1	1:B:278:PRO:HB2	2.20	0.41
1:B:365:TYR:CE2	1:B:367:PRO:HA	2.55	0.41
1:B:60:ILE:CD1	1:B:60:ILE:N	2.94	0.41
1:B:70:GLN:HG3	1:B:70:GLN:O	2.21	0.41
1:C:232:LEU:HD23	1:C:232:LEU:HA	1.96	0.41
1:D:163:ILE:HD12	1:D:163:ILE:O	2.31	0.41
1:D:663:GLU:O	1:D:666:THR:HG22	2.20	0.41
1:F:244:ARG:O	1:F:247:GLU:HB2	2.29	0.41
1:F:759:LEU:HD21	1:G:765:VAL:HG22	2.37	0.41
1:G:151:TYR:HB2	1:G:152:ILE:CD1	3.39	0.41
1:F:298:GLN:HG3	1:G:305:GLU:CD	2.53	0.41
1:G:327:SER:O	1:G:328:GLU:HB2	2.20	0.41
1:G:340:LEU:HG	1:G:353:ALA:HB2	2.03	0.41
1:G:387:GLY:HA3	1:G:402:ILE:HA	2.11	0.41
1:F:396:GLY:CA	1:G:405:THR:HG23	2.60	0.41
1:G:748:ALA:O	1:G:752:ALA:HB2	2.46	0.41
1:H:106:GLU:O	1:H:107:LYS:HD2	2.20	0.41
1:H:230:ARG:HD3	1:H:246:GLY:O	2.56	0.41
1:H:318:ARG:HB2	1:H:321:GLN:HG2	2.43	0.41
1:H:391:GLN:HB2	1:H:398:VAL:HG22	2.08	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:471:TYR:CE1	1:I:484:PRO:HG2	2.56	0.41
1:H:529:ILE:HD11	1:H:537:LEU:HB2	2.36	0.41
1:I:53:VAL:HG11	1:I:56:ARG:HE	1.84	0.41
1:J:298:GLN:HG3	1:K:305:GLU:CD	2.75	0.41
1:J:60:ILE:H	1:J:60:ILE:CD1	2.21	0.41
1:J:67:ARG:HH21	1:J:107:LYS:HA	1.92	0.41
1:K:65:VAL:HA	1:K:110:THR:CA	2.50	0.41
1:K:332:LEU:HD11	1:K:379:ALA:HB2	2.02	0.41
1:K:402:ILE:HD13	1:K:402:ILE:N	4.52	0.41
1:K:464:HIS:CG	1:K:484:PRO:HB3	2.56	0.41
1:K:522:PHE:CD2	1:K:522:PHE:O	2.73	0.41
1:K:660:LEU:HA	1:K:663:GLU:HB2	2.31	0.41
1:L:199:ARG:HH21	1:L:258:ALA:HB3	1.92	0.41
1:L:244:ARG:HB3	1:M:221:LEU:HD21	2.01	0.41
1:L:284:ILE:HD13	1:L:300:ARG:O	2.20	0.41
1:L:279:ARG:O	1:L:323:VAL:HG13	2.20	0.41
1:L:338:GLN:OE1	1:M:278:PRO:HB2	2.20	0.41
1:M:68:ASP:O	1:M:69:THR:HB	2.29	0.41
1:N:360:ARG:HG3	1:N:361:GLY:N	2.35	0.41
1:N:389:TYR:HB2	1:N:415:TRP:O	2.19	0.41
1:O:122:HIS:HB3	1:O:160:VAL:H	1.86	0.41
1:O:252:THR:H	1:O:254:GLN:HE21	1.66	0.41
1:O:522:PHE:CD2	1:O:522:PHE:C	2.93	0.41
1:O:579:VAL:CG2	1:O:599:ILE:HG23	2.51	0.41
1:P:141:ASP:C	1:P:142:GLU:HG2	2.39	0.41
1:P:152:ILE:O	1:P:152:ILE:HG12	2.19	0.41
1:P:366:VAL:O	1:P:367:PRO:C	2.58	0.41
1:P:476:LYS:HE2	1:Q:485:GLU:OE1	2.20	0.41
1:Q:285:LEU:HD21	1:Q:317:GLU:HB2	2.03	0.41
1:P:697:SER:CA	1:Q:706:LEU:HD23	2.48	0.41
1:P:766:ARG:HD3	1:Q:772:TYR:HB2	2.03	0.41
1:R:394:LYS:HG2	1:S:329:GLN:CG	2.40	0.41
1:S:217:ASP:OD1	1:S:218:ALA:N	2.53	0.41
1:S:530:GLU:HA	1:S:535:ALA:O	2.20	0.41
1:T:663:GLU:HA	1:T:663:GLU:OE1	2.20	0.41
1:U:84:ARG:NH2	1:U:101:PRO:HD2	2.33	0.41
1:V:123:LEU:HA	1:V:158:GLU:HA	2.02	0.41
1:V:175:ARG:HH11	1:V:212:VAL:HG11	1.85	0.41
1:V:737:GLY:HA3	1:W:746:LEU:HD13	2.02	0.41
1:W:230:ARG:HB3	1:W:230:ARG:HH11	1.85	0.41
1:X:123:LEU:HD13	1:X:156:GLU:OE1	2.20	0.41
1:X:192:THR:HG23	1:Y:202:GLY:HA3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:385:ASN:HA	1:X:385:ASN:HD22	1.56	0.41
1:X:803:GLY:C	1:X:805:GLY:N	2.72	0.41
1:Y:289:GLY:HA3	1:Y:290:PRO:HD2	1.90	0.41
1:Y:43:VAL:HG12	1:Y:45:PHE:O	2.20	0.41
1:Y:54:PRO:CB	1:Y:55:PRO:CD	2.76	0.41
1:Z:130:GLU:CB	1:Z:136:LYS:HA	2.47	0.41
1:Z:272:PRO:HB3	1:Z:309:PHE:CZ	2.56	0.41
1:Z:60:ILE:HG22	1:Z:66:SER:HB2	2.01	0.41
1:A:381:PRO:HA	1:A:405:THR:HB	2.65	0.41
1:A:382:LEU:H	1:A:405:THR:HG22	1.86	0.41
1:A:504:ARG:HA	1:A:504:ARG:HD3	1.83	0.41
1:B:197:LEU:HD22	1:B:197:LEU:HA	1.81	0.41
1:B:342:GLU:HA	1:B:350:SER:HA	2.01	0.41
1:B:335:LYS:HG2	1:B:373:VAL:HA	2.01	0.41
1:B:379:ALA:HB2	1:B:407:MET:HB3	2.02	0.41
1:B:729:ARG:CZ	1:B:729:ARG:HB2	2.62	0.41
1:B:750:ALA:O	1:B:753:ILE:HG22	2.19	0.41
1:C:129:PHE:O	1:C:137:VAL:HG13	2.20	0.41
1:C:164:GLN:HG2	1:C:164:GLN:H	1.93	0.41
1:C:311:GLN:HB3	1:C:312:PRO:HD2	2.24	0.41
1:C:495:PHE:HB3	1:C:514:LEU:HD11	2.03	0.41
1:D:286:ASP:N	1:D:287:PRO:CD	2.83	0.41
1:D:542:ALA:HB3	1:D:639:ASP:HB2	2.02	0.41
1:D:750:ALA:C	1:D:752:ALA:H	2.52	0.41
1:E:133:ASN:ND2	1:E:133:ASN:H	2.18	0.41
1:E:13:TYR:N	1:E:13:TYR:HD1	2.19	0.41
1:E:14:HIS:HD2	1:E:53:VAL:HG11	1.86	0.41
1:E:164:GLN:HB3	1:E:204:TYR:HA	2.06	0.41
1:E:221:LEU:HD21	1:E:256:THR:HG22	2.84	0.41
1:E:260:VAL:HB	1:E:263:VAL:CA	2.38	0.41
1:E:464:HIS:HA	1:E:484:PRO:HB3	2.28	0.41
1:E:627:VAL:HG13	1:E:634:VAL:HG22	2.03	0.41
1:D:781:VAL:HG11	1:E:786:GLN:OE1	2.48	0.41
1:F:10:ILE:HG23	1:F:11:PRO:HD2	2.20	0.41
1:F:164:GLN:NE2	1:F:204:TYR:HB3	3.14	0.41
1:F:354:GLY:O	1:G:328:GLU:HG3	2.20	0.41
1:F:3:THR:HG22	1:F:50:MET:HE1	2.02	0.41
1:F:97:PHE:HA	1:F:98:PRO:HD3	1.87	0.41
1:G:113:GLN:O	1:G:114:VAL:HG13	2.21	0.41
1:G:171:ASN:O	1:G:216:VAL:CA	2.89	0.41
1:G:220:ILE:HD13	1:G:252:THR:HA	2.03	0.41
1:G:244:ARG:N	1:G:247:GLU:OE1	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:260:VAL:HB	1:G:263:VAL:CA	2.44	0.41
1:G:354:GLY:C	1:H:328:GLU:HG3	5.33	0.41
1:G:6:ALA:HA	1:G:41:GLU:O	2.19	0.41
1:G:523:PHE:CD1	1:G:568:VAL:HG12	2.61	0.41
1:G:645:PRO:HG2	1:G:651:ARG:HG3	2.67	0.41
1:H:363:LEU:CD1	1:H:364:GLU:H	2.34	0.41
1:H:40:ASN:HB3	1:H:42:ARG:HH11	1.86	0.41
1:I:175:ARG:HG3	1:I:215:LEU:HD23	2.02	0.41
1:I:221:LEU:HA	1:I:253:VAL:HG13	2.02	0.41
1:I:578:ARG:HB3	1:I:602:ALA:O	2.21	0.41
1:I:582:ALA:O	1:I:585:SER:HB2	2.20	0.41
1:I:84:ARG:HH22	1:I:101:PRO:HD2	1.86	0.41
1:J:327:SER:H	1:J:331:GLY:HA3	2.04	0.41
1:J:504:ARG:HD3	1:J:504:ARG:HA	1.84	0.41
1:K:176:LEU:HD23	1:K:211:GLU:HA	2.03	0.41
1:K:462:VAL:HG22	1:K:468:VAL:HG23	2.02	0.41
1:L:289:GLY:HA3	1:L:290:PRO:HD2	1.88	0.41
1:L:470:VAL:HB	1:L:479:ARG:HD2	2.43	0.41
1:M:13:TYR:HD1	1:M:13:TYR:N	2.21	0.41
1:M:177:ARG:HH11	1:M:177:ARG:HB2	1.84	0.41
1:M:337:LEU:HD13	1:M:351:HIS:HB2	2.02	0.41
1:N:150:THR:HG23	1:N:151:TYR:N	2.35	0.41
1:N:235:PHE:CZ	1:N:264:TYR:CE1	3.08	0.41
1:N:298:GLN:HG3	1:O:305:GLU:CD	2.41	0.41
1:O:38:GLN:HG2	1:O:38:GLN:H	1.59	0.41
1:P:191:VAL:CG1	1:P:192:THR:N	2.83	0.41
1:P:469:GLN:HB3	1:P:496:THR:CG2	2.50	0.41
1:P:781:VAL:HG11	1:Q:786:GLN:OE1	2.20	0.41
1:Q:197:LEU:HD22	1:Q:197:LEU:HA	1.92	0.41
1:Q:243:HIS:NE2	1:Q:249:TRP:CD2	2.83	0.41
1:Q:734:ARG:HH21	1:Q:735:ILE:HD13	1.85	0.41
1:Q:192:THR:HG23	1:R:202:GLY:HA3	2.02	0.41
1:R:273:ILE:HG23	1:R:310:LEU:HD11	2.02	0.41
1:R:382:LEU:H	1:R:405:THR:CG2	2.27	0.41
1:S:167:VAL:HG13	1:S:201:VAL:O	2.19	0.41
1:S:235:PHE:HE1	1:S:237:ASP:HA	1.86	0.41
1:S:252:THR:O	1:S:253:VAL:C	2.58	0.41
1:S:760:GLU:O	1:S:764:LYS:HG2	2.21	0.41
1:T:808:ARG:O	1:T:812:VAL:HG23	2.21	0.41
1:U:182:CYS:SG	1:U:208:VAL:HB	2.60	0.41
1:U:236:ARG:HA	1:U:241:VAL:O	2.19	0.41
1:U:226:ALA:HB3	1:U:270:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:332:LEU:CD2	1:U:407:MET:HB2	2.43	0.41
1:V:180:LYS:C	1:V:182:CYS:H	2.22	0.41
1:V:234:ASN:HD22	1:V:234:ASN:N	2.17	0.41
1:W:251:VAL:HG23	1:W:254:GLN:NE2	2.35	0.41
1:W:251:VAL:HG23	1:W:254:GLN:HE21	1.85	0.41
1:W:286:ASP:N	1:W:287:PRO:CD	2.84	0.41
1:W:516:LEU:HB2	1:W:562:PHE:CE2	2.55	0.41
1:Y:262:ASP:HB3	1:Y:264:TYR:CE1	2.54	0.41
1:Y:281:TYR:O	1:Y:282:CYS:HB3	2.21	0.41
1:Y:340:LEU:HD23	1:Y:352:GLN:CA	2.49	0.41
1:Z:415:TRP:CH2	1:Z:417:LYS:HB3	2.55	0.41
1:Z:426:LEU:C	1:Z:428:ASN:H	2.23	0.41
1:A:129:PHE:CD1	1:A:129:PHE:N	3.30	0.41
1:A:218:ALA:HB3	1:A:227:LEU:HD11	2.03	0.41
1:A:337:LEU:N	1:A:337:LEU:HD23	2.49	0.41
1:A:382:LEU:HD11	1:A:388:ILE:HD12	4.86	0.41
1:A:752:ALA:HA	1:A:755:THR:HG22	2.08	0.41
1:B:123:LEU:CD1	1:B:143:TRP:HB2	2.96	0.41
1:B:276:LEU:HB2	1:B:280:HIS:ND1	2.60	0.41
1:B:304:GLY:H	1:B:306:LYS:HZ2	1.65	0.41
1:C:235:PHE:CZ	1:C:264:TYR:CE1	3.20	0.41
1:C:262:ASP:HB3	1:C:264:TYR:CZ	2.56	0.41
1:C:15:TYR:O	1:C:34:THR:OG1	2.50	0.41
1:C:568:VAL:HG23	1:C:569:GLY:N	2.35	0.41
1:B:707:LEU:HD22	1:C:717:GLU:HB2	2.35	0.41
1:D:169:LYS:HB2	1:D:169:LYS:HE3	2.60	0.41
1:E:325:VAL:HA	1:E:364:GLU:HA	2.05	0.41
1:E:791:GLU:OE1	1:F:794:LYS:NZ	2.69	0.41
1:F:382:LEU:HD11	1:F:388:ILE:HD12	3.88	0.41
1:F:402:ILE:C	1:F:402:ILE:HD12	4.33	0.41
1:F:472:ASP:OD1	1:F:472:ASP:C	2.85	0.41
1:G:146:GLU:HA	1:G:146:GLU:OE1	2.43	0.41
1:G:564:VAL:O	1:G:564:VAL:HG23	2.38	0.41
1:G:594:ASN:O	1:G:598:ILE:HG12	2.52	0.41
1:G:759:LEU:HD22	1:H:768:MET:HG3	2.16	0.41
1:H:231:ALA:O	1:H:245:THR:HA	2.20	0.41
1:H:217:ASP:OD1	1:H:257:GLU:O	2.41	0.41
1:H:470:VAL:HB	1:H:479:ARG:HG3	2.42	0.41
1:H:71:SER:OG	1:H:84:ARG:O	2.27	0.41
1:I:379:ALA:HB2	1:I:407:MET:HB3	2.03	0.41
1:I:468:VAL:HG11	1:I:495:PHE:CE2	2.56	0.41
1:I:476:LYS:N	1:I:476:LYS:HD2	2.72	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:494:GLN:HA	1:I:494:GLN:NE2	2.35	0.41
1:J:67:ARG:CD	1:J:108:ASP:HB3	2.64	0.41
1:J:177:ARG:HH11	1:J:177:ARG:HB2	2.21	0.41
1:J:5:GLU:CB	1:J:7:ILE:CD1	4.70	0.41
1:K:251:VAL:HG21	1:K:257:GLU:HG2	2.01	0.41
1:K:199:ARG:HH21	1:K:258:ALA:HB3	2.18	0.41
1:K:310:LEU:HD21	1:K:316:LEU:HG	2.01	0.41
1:K:5:GLU:HB2	1:K:41:GLU:OE1	2.27	0.41
1:K:65:VAL:HA	1:K:110:THR:HG22	2.21	0.41
1:K:688:LEU:HA	1:K:691:GLN:CD	2.75	0.41
1:K:794:LYS:O	1:K:798:MET:HG3	2.87	0.41
1:L:276:LEU:HD13	1:L:278:PRO:HD2	2.03	0.41
1:L:338:GLN:HB2	1:L:339:PRO:CD	2.32	0.41
1:L:339:PRO:HG2	1:L:370:LYS:HE2	2.58	0.41
1:L:545:TRP:HB2	1:L:633:LEU:HD21	2.33	0.41
1:L:748:ALA:O	1:L:752:ALA:HB2	2.41	0.41
1:M:3:THR:H	1:M:50:MET:HE1	1.86	0.41
1:M:494:GLN:CA	1:M:494:GLN:NE2	3.06	0.41
1:M:586:VAL:HG13	1:M:590:ASP:OD2	2.42	0.41
1:N:371:VAL:CG1	1:N:372:GLU:N	2.83	0.41
1:O:539:LEU:HA	1:O:642:SER:O	2.20	0.41
1:P:676:GLU:O	1:P:679:ARG:N	2.53	0.41
1:P:244:ARG:HB3	1:Q:221:LEU:HD23	2.03	0.41
1:Q:310:LEU:HD21	1:Q:316:LEU:HG	2.03	0.41
1:Q:418:GLU:OE2	1:Q:452:ARG:NH1	2.54	0.41
1:Q:586:VAL:HG13	1:Q:590:ASP:OD2	2.20	0.41
1:Q:7:ILE:H	1:Q:41:GLU:HG3	1.85	0.41
1:R:206:PRO:HB2	1:R:209:PHE:CD2	2.56	0.41
1:R:469:GLN:HB3	1:R:496:THR:CG2	2.50	0.41
1:R:533:ASP:N	1:R:533:ASP:OD1	2.53	0.41
1:S:115:VAL:HA	1:S:147:GLY:O	2.20	0.41
1:S:191:VAL:HG12	1:S:194:GLU:HB2	2.03	0.41
1:R:394:LYS:CG	1:S:329:GLN:HG3	2.38	0.41
1:S:49:ARG:HH22	1:T:8:ILE:CD1	2.34	0.41
1:S:580:ARG:HH22	1:T:595:SER:HB2	1.85	0.41
1:U:10:ILE:HG23	1:U:11:PRO:HD2	2.03	0.41
1:V:217:ASP:OD1	1:V:257:GLU:O	2.39	0.41
1:V:237:ASP:OD1	1:V:241:VAL:N	2.53	0.41
1:V:45:PHE:HB2	1:V:48:VAL:HG23	2.03	0.41
1:W:660:LEU:HA	1:W:663:GLU:CB	2.51	0.41
1:W:767:GLU:O	1:W:771:ILE:HG12	2.20	0.41
1:X:13:TYR:CD2	1:X:54:PRO:O	2.74	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:327:SER:N	1:X:331:GLY:HA3	2.36	0.41
1:X:338:GLN:CB	1:X:339:PRO:CD	2.96	0.41
1:X:549:LEU:HG	1:X:561:LEU:HD11	2.02	0.41
1:Y:332:LEU:HD13	1:Y:377:ARG:HG2	2.02	0.41
1:Y:808:ARG:O	1:Y:812:VAL:HG23	2.21	0.41
1:Z:135:ASP:C	1:Z:136:LYS:HG3	2.41	0.41
1:Z:747:LYS:HD3	1:Z:747:LYS:HA	1.66	0.41
1:A:108:ASP:OD1	1:A:108:ASP:N	2.66	0.41
1:A:289:GLY:HA3	1:A:290:PRO:HD2	1.97	0.41
1:A:693:ILE:N	1:A:693:ILE:CD1	3.77	0.41
1:B:1:MET:O	1:B:2:ALA:CB	2.72	0.41
1:B:285:LEU:HD12	1:B:315:ARG:HD2	2.03	0.41
1:B:335:LYS:NZ	1:B:335:LYS:CB	3.01	0.41
1:C:330:GLN:HE22	1:C:360:ARG:HD2	1.84	0.41
1:D:132:LYS:HA	1:D:132:LYS:HD2	1.71	0.41
1:D:175:ARG:HA	1:D:196:TRP:O	2.25	0.41
1:D:36:ILE:HD13	1:D:36:ILE:C	2.40	0.41
1:E:17:HIS:CD2	1:E:18:VAL:HG22	2.56	0.41
1:E:189:GLY:O	1:E:190:ARG:HB3	3.22	0.41
1:E:197:LEU:HD22	1:E:197:LEU:HA	1.87	0.41
1:E:251:VAL:HG23	1:E:254:GLN:HE21	1.85	0.41
1:E:508:PRO:O	1:E:509:HIS:HD2	2.02	0.41
1:E:660:LEU:HD13	1:E:663:GLU:HG2	2.05	0.41
1:F:402:ILE:HD13	1:F:402:ILE:N	2.32	0.41
1:F:530:GLU:HA	1:F:535:ALA:O	2.21	0.41
1:F:539:LEU:HA	1:F:642:SER:O	2.21	0.41
1:F:597:ARG:HB3	1:F:597:ARG:NH1	2.36	0.41
1:F:605:GLY:HA3	1:F:623:ARG:HH21	1.86	0.41
1:G:69:THR:HA	1:G:106:GLU:CB	2.86	0.41
1:G:284:ILE:HG12	1:G:300:ARG:HB3	2.18	0.41
1:G:335:LYS:HD3	1:G:359:ILE:HD12	2.02	0.41
1:H:534:HIS:CE1	1:I:592:HIS:CD2	3.70	0.41
1:I:798:MET:O	1:I:802:LEU:HD23	2.28	0.41
1:J:104:VAL:HG22	1:J:105:LEU:H	1.86	0.41
1:J:197:LEU:HA	1:J:197:LEU:HD22	1.88	0.41
1:J:260:VAL:C	1:J:262:ASP:N	2.74	0.41
1:J:341:GLU:OE1	1:J:341:GLU:O	2.47	0.41
1:K:11:PRO:HB2	1:K:12:PRO:HD3	2.17	0.41
1:K:13:TYR:HD1	1:K:13:TYR:N	2.18	0.41
1:K:802:LEU:HD23	1:K:802:LEU:H	1.85	0.41
1:L:595:SER:O	1:L:599:ILE:HG12	2.79	0.41
1:L:729:ARG:HB2	1:L:729:ARG:CZ	2.53	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:109:ILE:CD1	1:M:153:PRO:HG2	2.50	0.41
1:M:251:VAL:CG2	1:M:254:GLN:NE2	2.98	0.41
1:M:281:TYR:CD2	1:M:366:VAL:HG13	2.56	0.41
1:M:419:LEU:HD13	1:M:494:GLN:NE2	2.35	0.41
1:M:416:GLU:HB2	1:M:454:LYS:HB3	2.01	0.41
1:M:599:ILE:O	1:M:601:MET:N	2.54	0.41
1:L:697:SER:CA	1:M:706:LEU:HD23	2.47	0.41
1:N:599:ILE:O	1:N:601:MET:N	2.53	0.41
1:N:660:LEU:HA	1:N:663:GLU:HB3	2.03	0.41
1:O:14:HIS:HB3	1:O:56:ARG:HG3	2.03	0.41
1:O:244:ARG:O	1:O:247:GLU:HB2	2.21	0.41
1:O:291:ASP:C	1:O:293:LYS:N	2.74	0.41
1:O:531:THR:HA	1:O:583:VAL:O	2.20	0.41
1:P:183:PHE:CE2	1:P:188:LYS:HA	2.56	0.41
1:P:209:PHE:N	1:P:209:PHE:CD2	2.88	0.41
1:P:414:LEU:HD23	1:P:455:THR:HB	2.02	0.41
1:P:529:ILE:HG22	1:P:580:ARG:HB2	2.03	0.41
1:P:760:GLU:OE1	1:P:760:GLU:HA	2.20	0.41
1:Q:129:PHE:O	1:Q:130:GLU:HG2	2.21	0.41
1:Q:289:GLY:HA3	1:Q:290:PRO:HD2	1.77	0.41
1:R:100:TYR:CB	1:R:101:PRO:CD	2.96	0.41
1:R:143:TRP:HB3	1:R:144:LEU:H	1.73	0.41
1:R:236:ARG:HB3	1:R:236:ARG:NH1	2.34	0.41
1:R:36:ILE:HG21	1:R:99:LEU:CD1	2.51	0.41
1:R:332:LEU:HD13	1:R:377:ARG:HG2	2.03	0.41
1:Q:535:ALA:HA	1:R:658:VAL:HG21	2.03	0.41
1:S:151:TYR:O	1:S:153:PRO:HD3	2.21	0.41
1:S:38:GLN:H	1:S:38:GLN:HG2	1.61	0.41
1:S:398:VAL:HG11	1:S:415:TRP:CZ3	2.56	0.41
1:S:660:LEU:O	1:S:664:ILE:HG23	2.21	0.41
1:T:243:HIS:NE2	1:T:249:TRP:CD2	2.84	0.41
1:T:273:ILE:CD1	1:T:308:PHE:HB3	2.50	0.41
1:T:73:VAL:HG11	1:T:82:ARG:HB2	2.02	0.41
1:U:520:PRO:HA	1:U:546:HIS:HB3	2.02	0.41
1:U:591:PHE:O	1:U:595:SER:N	2.54	0.41
1:W:326:LEU:N	1:W:328:GLU:OE2	2.53	0.41
1:W:335:LYS:HE2	1:W:335:LYS:HB2	2.00	0.41
1:W:597:ARG:HB3	1:W:597:ARG:NH1	2.36	0.41
1:X:68:ASP:O	1:X:106:GLU:HB2	2.20	0.41
1:X:130:GLU:HA	1:X:137:VAL:H	1.84	0.41
1:X:284:ILE:HD12	1:X:287:PRO:HB3	2.02	0.41
1:X:46:ALA:H	1:X:47:PRO:HD3	1.83	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:554:ASP:HA	1:Y:555:PRO:HD3	1.82	0.41
1:Z:182:CYS:HB2	1:Z:208:VAL:HB	2.03	0.41
1:Z:20:ASP:HB2	1:Z:49:ARG:HD3	2.02	0.41
1:Z:336:ALA:H	1:Z:374:VAL:HG23	1.86	0.41
1:Z:470:VAL:HB	1:Z:479:ARG:HG3	2.03	0.41
1:A:335:LYS:HZ3	1:A:335:LYS:HB2	1.85	0.41
1:A:517:LEU:O	1:A:545:TRP:CH2	3.12	0.41
1:A:533:ASP:OD1	1:A:533:ASP:N	2.64	0.41
1:A:748:ALA:O	1:A:752:ALA:HB2	2.39	0.41
1:A:761:ARG:HG2	1:Z:755:THR:HG21	157.66	0.41
1:B:122:HIS:CG	1:B:159:VAL:HB	2.68	0.41
1:B:165:ALA:HB2	1:B:211:GLU:OE2	2.49	0.41
1:B:63:ASN:H	1:B:64:PRO:HD2	1.86	0.41
1:C:10:ILE:CG2	1:C:11:PRO:HD2	2.79	0.41
1:C:227:LEU:HD23	1:C:227:LEU:HA	1.92	0.41
1:D:121:LEU:HB2	1:D:145:PHE:CB	2.48	0.41
1:D:130:GLU:HB2	1:D:136:LYS:HG2	2.61	0.41
1:D:339:PRO:HG2	1:D:370:LYS:HE2	2.18	0.41
1:D:90:ILE:O	1:D:90:ILE:HD12	4.34	0.41
1:E:279:ARG:HA	1:E:323:VAL:HG22	2.03	0.41
1:E:40:ASN:HB3	1:E:42:ARG:HH11	1.89	0.41
1:E:14:HIS:HB2	1:E:56:ARG:HB2	1.97	0.41
1:E:29:GLU:HB3	1:E:84:ARG:HD3	2.39	0.41
1:F:121:LEU:HD12	1:F:145:PHE:HD2	2.28	0.41
1:F:150:THR:HG23	1:F:151:TYR:H	2.02	0.41
1:F:184:ASP:OD2	1:F:209:PHE:HZ	2.14	0.41
1:F:325:VAL:HA	1:F:364:GLU:HA	2.03	0.41
1:G:345:SER:C	1:G:347:GLU:H	2.23	0.41
1:G:5:GLU:HA	1:G:7:ILE:CD1	3.92	0.41
1:H:627:VAL:HG13	1:H:634:VAL:HG22	2.03	0.41
1:I:234:ASN:ND2	1:I:245:THR:H	2.43	0.41
1:H:298:GLN:HG3	1:I:305:GLU:CD	2.43	0.41
1:I:326:LEU:O	1:I:328:GLU:HG2	2.23	0.41
1:I:383:ASP:OD1	1:I:383:ASP:N	2.54	0.41
1:H:22:ASN:HD21	1:I:39:ASP:HB3	1.84	0.41
1:I:402:ILE:HG23	1:I:457:VAL:HG21	2.03	0.41
1:I:794:LYS:O	1:I:798:MET:HG3	2.21	0.41
1:J:14:HIS:CE1	1:J:99:LEU:HB2	3.14	0.41
1:J:320:ILE:N	1:J:320:ILE:CD1	4.13	0.41
1:J:527:ILE:HD13	1:J:539:LEU:O	2.20	0.41
1:K:601:MET:HG3	1:K:622:ALA:HB2	2.17	0.41
1:L:114:VAL:CA	1:L:118:ASN:HD21	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:379:ALA:HB2	1:L:407:MET:HB3	2.17	0.41
1:L:698:GLU:OE2	1:L:698:GLU:HA	2.43	0.41
1:L:771:ILE:HD13	1:L:774:ARG:HH12	1.80	0.41
1:M:109:ILE:HD12	1:M:153:PRO:CG	2.50	0.41
1:M:165:ALA:HB2	1:M:211:GLU:OE2	2.21	0.41
1:M:262:ASP:HB3	1:M:264:TYR:CZ	2.55	0.41
1:M:226:ALA:O	1:M:269:GLY:HA2	2.21	0.41
1:M:296:LEU:HB2	1:N:274:THR:HG21	2.03	0.41
1:M:333:LEU:HB2	1:M:359:ILE:HD13	3.00	0.41
1:M:379:ALA:HB2	1:M:407:MET:HB3	2.03	0.41
1:M:519:GLY:O	1:M:521:ASP:N	2.54	0.41
1:M:569:GLY:O	1:M:573:LYS:HB2	2.25	0.41
1:N:13:TYR:CD1	1:N:13:TYR:N	2.88	0.41
1:N:419:LEU:CD1	1:N:494:GLN:HE21	2.33	0.41
1:N:679:ARG:HG3	1:O:691:GLN:NE2	2.34	0.41
1:O:382:LEU:HB2	1:O:404:SER:O	2.21	0.41
1:O:529:ILE:HG22	1:O:580:ARG:HB2	2.03	0.41
1:O:594:ASN:HB2	1:O:598:ILE:HD11	2.02	0.41
1:P:249:TRP:N	1:P:249:TRP:CD1	2.88	0.41
1:P:336:ALA:HA	1:P:356:CYS:CB	2.51	0.41
1:P:3:THR:HG22	1:P:50:MET:HE1	2.02	0.41
1:P:519:GLY:O	1:P:521:ASP:N	2.50	0.41
1:P:60:ILE:HG22	1:P:66:SER:HA	2.03	0.41
1:Q:299:LYS:HB3	1:Q:299:LYS:HE2	1.94	0.41
1:R:67:ARG:CZ	1:R:108:ASP:OD1	2.69	0.41
1:R:120:ALA:HB2	1:R:164:GLN:NE2	2.35	0.41
1:R:158:GLU:N	1:R:158:GLU:OE1	2.50	0.41
1:R:332:LEU:CD2	1:R:358:LEU:HD11	2.45	0.41
1:R:414:LEU:HD23	1:R:455:THR:CB	2.51	0.41
1:S:70:GLN:HB3	1:S:104:VAL:H	1.85	0.41
1:T:123:LEU:CG	1:T:143:TRP:HB2	2.50	0.41
1:S:338:GLN:OE1	1:T:278:PRO:HB2	2.21	0.41
1:T:419:LEU:CG	1:T:420:PRO:HD2	2.46	0.41
1:V:108:ASP:OD1	1:V:108:ASP:N	2.52	0.41
1:V:150:THR:HG23	1:V:151:TYR:N	2.35	0.41
1:V:17:HIS:CD2	1:V:18:VAL:HG22	2.55	0.41
1:V:285:LEU:HD12	1:V:315:ARG:HD2	2.03	0.41
1:V:384:GLN:NE2	1:V:384:GLN:H	2.19	0.41
1:W:391:GLN:HB2	1:W:398:VAL:HG22	2.02	0.41
1:V:49:ARG:HH22	1:W:8:ILE:CD1	2.34	0.41
1:X:127:LEU:HB3	1:Y:64:PRO:HD3	2.03	0.41
1:X:383:ASP:N	1:X:386:GLU:HG2	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:579:VAL:HG21	1:Y:599:ILE:HG23	2.02	0.41
1:Z:25:VAL:O	1:Z:26:SER:HB2	2.21	0.41
1:A:329:GLN:CG	1:Z:394:LYS:HG2	297.94	0.41
1:Z:549:LEU:HA	1:Z:549:LEU:HD22	1.96	0.41
1:Z:61:VAL:HG13	1:Z:65:VAL:CG2	2.44	0.41
1:Y:766:ARG:CG	1:Z:772:TYR:CD1	3.04	0.41
1:A:183:PHE:CG	1:A:190:ARG:HD3	2.78	0.41
1:A:234:ASN:ND2	1:A:245:THR:H	2.19	0.41
1:A:260:VAL:HB	1:A:263:VAL:CA	2.49	0.41
1:B:242:LEU:H	1:B:242:LEU:HD23	1.86	0.41
1:C:36:ILE:HG12	1:C:58:TYR:CE1	4.12	0.41
1:B:397:LYS:CA	1:C:384:GLN:OE1	3.29	0.41
1:C:392:ASP:OD1	1:C:394:LYS:HB2	2.51	0.41
1:C:60:ILE:N	1:C:60:ILE:CD1	2.94	0.41
1:D:13:TYR:N	1:D:13:TYR:CD1	2.89	0.41
1:D:335:LYS:HB3	1:D:372:GLU:O	2.21	0.41
1:D:530:GLU:HA	1:D:535:ALA:O	2.21	0.41
1:E:244:ARG:N	1:E:247:GLU:OE1	2.74	0.41
1:E:327:SER:H	1:E:331:GLY:HA3	1.86	0.41
1:E:543:TYR:CD2	1:E:575:ILE:HD13	2.56	0.41
1:F:221:LEU:HD22	1:F:256:THR:HB	2.41	0.41
1:F:282:CYS:SG	1:F:302:VAL:HG23	2.60	0.41
1:F:28:VAL:CG1	1:F:30:VAL:HG23	2.72	0.41
1:F:330:GLN:CG	1:F:379:ALA:HB3	2.78	0.41
1:G:415:TRP:CZ3	1:G:417:LYS:HG2	3.41	0.41
1:H:125:ALA:HB3	1:H:139:ALA:O	2.63	0.41
1:H:131:ASP:HB2	1:H:155:LYS:HD2	2.82	0.41
1:H:417:LYS:HE3	1:H:491:PRO:O	3.10	0.41
1:H:473:TYR:HE1	1:H:494:GLN:HB2	1.85	0.41
1:I:285:LEU:HD12	1:I:315:ARG:HD2	2.28	0.41
1:I:340:LEU:HG	1:I:353:ALA:N	3.35	0.41
1:I:402:ILE:C	1:I:402:ILE:HD12	2.58	0.41
1:J:220:ILE:C	1:J:222:THR:N	2.75	0.41
1:J:256:THR:O	1:J:256:THR:HG23	2.47	0.41
1:J:506:LYS:HD3	1:J:506:LYS:HA	2.29	0.41
1:J:595:SER:O	1:J:596:ALA:C	2.76	0.41
1:K:220:ILE:C	1:K:222:THR:H	2.23	0.41
1:K:533:ASP:CG	1:K:588:PHE:H	2.24	0.41
1:L:594:ASN:HB3	1:L:598:ILE:HD13	2.03	0.41
1:L:807:ILE:HD12	1:L:808:ARG:N	4.48	0.41
1:L:807:ILE:HG13	1:L:807:ILE:H	2.25	0.41
1:M:322:ASP:N	1:M:322:ASP:OD1	2.67	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:360:ARG:NE	1:M:407:MET:HG2	2.36	0.41
1:N:300:ARG:HA	1:N:300:ARG:HD3	1.93	0.41
1:M:354:GLY:O	1:N:328:GLU:HG3	2.21	0.41
1:O:175:ARG:HA	1:O:196:TRP:O	2.20	0.41
1:P:341:GLU:HG2	1:P:370:LYS:HD3	2.03	0.41
1:Q:122:HIS:HB3	1:Q:159:VAL:HB	2.02	0.41
1:Q:150:THR:OG1	1:Q:151:TYR:HD1	2.04	0.41
1:Q:251:VAL:HG21	1:Q:257:GLU:HG2	2.01	0.41
1:Q:381:PRO:C	1:Q:405:THR:HG22	2.39	0.41
1:Q:462:VAL:CG2	1:Q:468:VAL:HG23	2.51	0.41
1:R:144:LEU:H	1:R:144:LEU:HD12	1.85	0.41
1:R:767:GLU:O	1:R:771:ILE:HD13	2.21	0.41
1:S:523:PHE:CD1	1:S:545:TRP:NE1	2.89	0.41
1:T:164:GLN:HG2	1:T:164:GLN:H	1.71	0.41
1:T:249:TRP:CD1	1:T:249:TRP:N	2.89	0.41
1:T:472:ASP:HA	1:T:493:GLU:HB3	2.03	0.41
1:U:425:GLU:H	1:U:425:GLU:CD	2.24	0.41
1:V:208:VAL:HG23	1:V:209:PHE:HD2	1.86	0.41
1:V:277:GLY:HA2	1:V:305:GLU:N	2.36	0.41
1:V:329:GLN:OE1	1:V:330:GLN:HB2	2.21	0.41
1:V:330:GLN:HA	1:V:330:GLN:OE1	2.17	0.41
1:V:547:PHE:CD2	1:V:561:LEU:HD23	2.55	0.41
1:V:704:LYS:HD2	1:W:712:MET:CB	2.49	0.41
1:W:148:PRO:HB2	1:W:149:GLY:H	1.75	0.41
1:W:543:TYR:CE2	1:W:575:ILE:HG21	2.56	0.41
1:X:387:GLY:CA	1:X:402:ILE:HG22	2.46	0.41
1:Y:110:THR:O	1:Y:112:LEU:N	2.50	0.41
1:Y:113:GLN:O	1:Y:114:VAL:HG13	2.21	0.41
1:Y:17:HIS:CD2	1:Y:18:VAL:HG22	2.56	0.41
1:Y:310:LEU:H	1:Y:310:LEU:HD12	1.85	0.41
1:Y:399:ARG:HG2	1:Y:399:ARG:NH1	2.36	0.41
1:Y:65:VAL:HA	1:Y:110:THR:HA	2.02	0.41
1:A:30:VAL:HG13	1:A:74:LEU:HD11	2.02	0.41
1:B:283:VAL:HG23	1:B:321:GLN:NE2	2.60	0.41
1:C:165:ALA:HB2	1:C:211:GLU:OE2	2.20	0.41
1:C:407:MET:SD	1:C:407:MET:N	2.94	0.41
1:C:418:GLU:HG2	1:C:423:VAL:HG22	2.31	0.41
1:C:504:ARG:HA	1:C:504:ARG:HD3	1.92	0.41
1:C:506:LYS:HD3	1:C:506:LYS:HA	2.44	0.41
1:C:623:ARG:HG3	1:C:624:ASP:N	2.71	0.41
1:B:708:GLU:CG	1:C:716:VAL:HG11	2.51	0.41
1:D:129:PHE:O	1:D:137:VAL:O	2.76	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:354:GLY:HA3	1:E:328:GLU:OE2	7.65	0.41
1:C:534:HIS:CD2	1:D:654:LEU:HG	2.56	0.41
1:E:220:ILE:C	1:E:222:THR:N	2.74	0.41
1:E:6:ALA:HA	1:E:41:GLU:O	2.48	0.41
1:D:533:ASP:OD2	1:E:661:ALA:HB1	2.21	0.41
1:E:745:LYS:HE3	1:E:745:LYS:HB2	2.04	0.41
1:F:120:ALA:HB2	1:F:164:GLN:HE22	2.51	0.41
1:F:185:ARG:HB2	1:F:206:PRO:HG2	2.03	0.41
1:F:70:GLN:HG2	1:F:104:VAL:HG12	2.03	0.41
1:F:766:ARG:HD2	1:G:768:MET:CE	3.10	0.41
1:G:184:ASP:HB3	1:G:187:GLY:O	2.43	0.41
1:G:335:LYS:HZ3	1:G:335:LYS:HB2	1.98	0.41
1:G:402:ILE:HD12	1:G:402:ILE:O	4.26	0.41
1:G:54:PRO:CB	1:G:55:PRO:CD	2.95	0.41
1:H:221:LEU:HD12	1:H:253:VAL:HG13	2.03	0.41
1:H:254:GLN:O	1:H:255:ASP:HB2	2.21	0.41
1:H:547:PHE:CD2	1:H:561:LEU:HD23	2.71	0.41
1:H:53:VAL:HG11	1:H:56:ARG:HG3	2.03	0.41
1:H:594:ASN:O	1:H:595:SER:C	2.59	0.41
1:H:69:THR:HA	1:H:106:GLU:HB2	2.42	0.41
1:I:557:GLU:HA	1:I:560:LYS:HB2	2.03	0.41
1:I:700:GLU:OE1	1:I:703:ARG:NH1	2.59	0.41
1:J:113:GLN:NE2	1:J:150:THR:HG22	2.35	0.41
1:J:163:ILE:CD1	1:J:163:ILE:H	3.80	0.41
1:J:184:ASP:HB2	1:J:189:GLY:O	2.21	0.41
1:J:204:TYR:HD1	1:J:206:PRO:HD3	3.11	0.41
1:J:452:ARG:HG3	1:J:452:ARG:NH1	2.35	0.41
1:J:558:ALA:O	1:J:561:LEU:HB2	2.20	0.41
1:K:154:GLN:HG3	1:K:155:LYS:N	2.36	0.41
1:K:287:PRO:O	1:K:295:GLN:HB2	2.21	0.41
1:K:273:ILE:CD1	1:K:316:LEU:HD11	2.98	0.41
1:K:340:LEU:HD21	1:L:363:LEU:CD2	2.51	0.41
1:K:426:LEU:C	1:K:428:ASN:H	2.69	0.41
1:L:177:ARG:H	1:L:212:VAL:CG2	3.00	0.41
1:L:167:VAL:CB	1:L:201:VAL:O	5.87	0.41
1:L:260:VAL:HB	1:L:263:VAL:CA	2.62	0.41
1:L:794:LYS:O	1:L:798:MET:CG	2.67	0.41
1:M:227:LEU:HB2	1:M:251:VAL:HG13	2.19	0.41
1:M:464:HIS:CD2	1:M:484:PRO:HB3	2.56	0.41
1:A:655:GLN:HG2	1:M:649:ARG:HH21	176.78	0.41
1:M:799:THR:O	1:M:802:LEU:O	2.39	0.41
1:O:327:SER:O	1:O:328:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:503:GLY:O	1:O:506:LYS:HD3	2.21	0.41
1:O:67:ARG:HG2	1:O:108:ASP:HA	2.03	0.41
1:P:164:GLN:CD	1:P:204:TYR:HB2	2.41	0.41
1:P:221:LEU:CD2	1:P:256:THR:CG2	2.90	0.41
1:P:296:LEU:HD22	1:P:296:LEU:H	1.85	0.41
1:P:382:LEU:H	1:P:405:THR:HG22	1.86	0.41
1:P:725:GLU:O	1:P:728:SER:HB3	2.21	0.41
1:Q:183:PHE:CE2	1:Q:188:LYS:HA	2.40	0.41
1:Q:299:LYS:NZ	1:Q:317:GLU:OE2	2.33	0.41
1:Q:600:ARG:NH1	1:Q:622:ALA:HB3	2.36	0.41
1:Q:719:THR:HG22	1:R:728:SER:N	2.35	0.41
1:R:113:GLN:NE2	1:R:150:THR:HG22	2.36	0.41
1:R:209:PHE:CD2	1:R:209:PHE:N	2.89	0.41
1:R:579:VAL:HG22	1:R:599:ILE:HG23	2.03	0.41
1:Q:653:ALA:HB3	1:R:662:ILE:HD11	1.75	0.41
1:S:122:HIS:O	1:S:159:VAL:N	2.41	0.41
1:S:11:PRO:HB2	1:S:12:PRO:HD3	2.02	0.41
1:S:36:ILE:O	1:S:37:ARG:CG	2.69	0.41
1:S:531:THR:OG1	1:S:535:ALA:HB3	2.21	0.41
1:T:235:PHE:CZ	1:T:264:TYR:CE1	3.09	0.41
1:T:518:LEU:HA	1:T:547:PHE:HD1	1.85	0.41
1:T:597:ARG:HG3	1:T:600:ARG:HH21	1.86	0.41
1:U:228:HIS:NE2	1:U:312:PRO:HB3	2.35	0.41
1:U:326:LEU:HD13	1:U:360:ARG:HA	2.02	0.41
1:U:523:PHE:CD1	1:U:545:TRP:NE1	2.89	0.41
1:V:235:PHE:CE1	1:V:264:TYR:CE1	3.09	0.41
1:V:745:LYS:HG3	1:W:753:ILE:CD1	2.51	0.41
1:W:166:THR:HA	1:W:202:GLY:HA2	2.02	0.41
1:W:330:GLN:CB	1:W:379:ALA:HB3	2.47	0.41
1:W:545:TRP:CE3	1:W:546:HIS:HA	2.56	0.41
1:X:155:LYS:HZ2	1:X:155:LYS:HB2	1.86	0.41
1:X:485:GLU:HG2	1:X:486:LEU:H	1.86	0.41
1:Y:640:VAL:HG13	1:Y:640:VAL:O	2.20	0.41
1:Y:645:PRO:HG2	1:Y:651:ARG:HG3	2.02	0.41
1:Y:745:LYS:HB2	1:Y:745:LYS:HE3	1.87	0.41
1:Z:472:ASP:CA	1:Z:493:GLU:HB3	2.51	0.41
1:A:229:LEU:HD23	1:A:266:GLU:HA	2.18	0.41
1:A:336:ALA:HA	1:A:356:CYS:HB2	2.03	0.41
1:A:530:GLU:HA	1:A:535:ALA:O	2.44	0.41
1:A:536:ARG:HB3	1:A:536:ARG:NH1	2.87	0.41
1:B:3:THR:HG23	1:B:50:MET:HE1	2.65	0.41
1:B:485:GLU:CG	1:B:486:LEU:H	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:551:ASN:HB3	1:C:554:ASP:CB	2.68	0.41
1:C:644:GLU:HA	1:C:645:PRO:HD3	1.99	0.41
1:D:121:LEU:HD12	1:D:145:PHE:CD2	2.62	0.41
1:D:295:GLN:HG2	1:D:298:GLN:HE21	1.86	0.41
1:D:77:ILE:CG1	1:D:80:GLN:C	2.86	0.41
1:E:36:ILE:HD11	1:E:58:TYR:HE1	1.86	0.41
1:E:386:GLU:OE2	1:E:456:ARG:HD3	3.69	0.41
1:F:178:ALA:HB1	1:F:182:CYS:HB3	2.02	0.41
1:F:775:ALA:O	1:F:778:GLU:HG3	2.20	0.41
1:G:175:ARG:HB3	1:G:212:VAL:HB	2.03	0.41
1:G:171:ASN:O	1:G:216:VAL:HB	2.68	0.41
1:G:281:TYR:CE2	1:G:366:VAL:HG13	2.64	0.41
1:G:391:GLN:HA	1:G:397:LYS:O	2.21	0.41
1:H:14:HIS:HB3	1:H:56:ARG:HG3	2.60	0.41
1:H:328:GLU:CG	1:H:329:GLN:N	2.70	0.41
1:H:36:ILE:HD11	1:H:58:TYR:HE1	2.01	0.41
1:I:199:ARG:NH1	1:I:238:LEU:HG	2.35	0.41
1:I:227:LEU:HD23	1:I:227:LEU:HA	2.09	0.41
1:I:472:ASP:CA	1:I:493:GLU:HB3	2.50	0.41
1:I:465:ASN:HB3	1:I:519:GLY:HA3	2.20	0.41
1:H:755:THR:HG21	1:I:761:ARG:HG2	2.16	0.41
1:H:781:VAL:HG21	1:I:786:GLN:OE1	2.20	0.41
1:J:338:GLN:HB3	1:J:339:PRO:HD3	2.03	0.41
1:J:382:LEU:H	1:J:405:THR:CG2	2.31	0.41
1:J:330:GLN:CD	1:J:407:MET:HG3	2.72	0.41
1:J:490:ASP:O	1:J:491:PRO:C	2.59	0.41
1:J:759:LEU:HA	1:J:762:VAL:HG23	3.35	0.41
1:K:114:VAL:HA	1:K:118:ASN:HD21	1.86	0.41
1:K:245:THR:C	1:K:247:GLU:H	2.23	0.41
1:K:279:ARG:O	1:K:323:VAL:N	2.35	0.41
1:K:336:ALA:HA	1:K:356:CYS:CB	2.59	0.41
1:K:330:GLN:HG3	1:K:379:ALA:HB3	2.21	0.41
1:K:330:GLN:OE1	1:K:407:MET:HG3	2.72	0.41
1:K:507:ARG:HA	1:K:508:PRO:HD3	1.98	0.41
1:K:495:PHE:HB3	1:K:514:LEU:CD1	2.41	0.41
1:K:531:THR:HA	1:K:583:VAL:O	2.21	0.41
1:K:777:LEU:HD11	1:L:783:LYS:HB2	2.03	0.41
1:L:421:SER:O	1:L:422:GLY:C	2.70	0.41
1:L:471:TYR:HD1	1:L:478:ALA:HB2	2.10	0.41
1:L:481:VAL:CG1	1:L:481:VAL:O	2.70	0.41
1:M:236:ARG:HH11	1:M:236:ARG:HB3	1.86	0.41
1:N:283:VAL:HG22	1:N:301:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:100:TYR:CB	1:O:101:PRO:CD	2.94	0.41
1:O:10:ILE:HG23	1:O:11:PRO:HD2	2.03	0.41
1:O:416:GLU:HB2	1:O:454:LYS:HB3	2.02	0.41
1:O:56:ARG:HH11	1:O:99:LEU:CD2	2.34	0.41
1:P:65:VAL:CG1	1:P:110:THR:HG22	2.50	0.41
1:P:5:GLU:O	1:P:41:GLU:O	2.38	0.41
1:Q:327:SER:HB2	1:Q:331:GLY:HA2	1.96	0.41
1:Q:481:VAL:HG11	1:Q:487:VAL:HG11	1.99	0.41
1:R:234:ASN:ND2	1:R:245:THR:H	2.19	0.41
1:R:335:LYS:HE2	1:R:335:LYS:HB2	1.94	0.41
1:R:333:LEU:HD23	1:R:376:GLU:HA	2.03	0.41
1:R:462:VAL:HG22	1:R:468:VAL:CG2	2.51	0.41
1:R:14:HIS:HB2	1:R:56:ARG:HB2	1.94	0.41
1:Q:766:ARG:HD3	1:R:772:TYR:CG	2.56	0.41
1:S:664:ILE:HG13	1:S:665:THR:N	2.36	0.41
1:T:239:ARG:HH21	1:T:257:GLU:CG	2.32	0.41
1:T:326:LEU:HD13	1:T:360:ARG:HA	2.03	0.41
1:V:173:ALA:HB1	1:V:198:VAL:O	2.20	0.41
1:V:60:ILE:HD13	1:V:60:ILE:N	2.35	0.41
1:W:183:PHE:HD2	1:W:184:ASP:H	1.68	0.41
1:W:396:GLY:CA	1:X:405:THR:HG23	2.51	0.41
1:W:575:ILE:N	1:W:575:ILE:HD13	2.34	0.41
1:W:63:ASN:N	1:W:64:PRO:HD2	2.36	0.41
1:W:692:LYS:HG2	1:W:696:GLN:HE21	1.85	0.41
1:W:70:GLN:HG3	1:W:70:GLN:O	2.21	0.41
1:X:494:GLN:HA	1:X:494:GLN:NE2	2.36	0.41
1:Y:167:VAL:HG13	1:Y:202:GLY:H	1.85	0.41
1:Y:335:LYS:HB3	1:Y:372:GLU:O	2.20	0.41
1:Y:363:LEU:HD12	1:Y:364:GLU:O	2.21	0.41
1:Y:421:SER:O	1:Y:425:GLU:OE2	2.39	0.41
1:Y:603:VAL:HG21	1:Y:638:VAL:HG21	2.03	0.41
1:Z:209:PHE:HD2	1:Z:209:PHE:H	1.69	0.41
1:Z:11:PRO:CA	1:Z:38:GLN:HA	2.42	0.41
1:A:67:ARG:O	1:A:91:ARG:HB2	2.21	0.40
1:B:100:TYR:CB	1:B:101:PRO:CD	2.99	0.40
1:B:154:GLN:HG3	1:B:155:LYS:CE	2.50	0.40
1:B:154:GLN:HB3	1:B:155:LYS:HZ2	1.86	0.40
1:B:255:ASP:CG	1:B:256:THR:N	2.83	0.40
1:B:383:ASP:H	1:B:386:GLU:HG2	2.12	0.40
1:B:382:LEU:HD13	1:B:387:GLY:HA2	2.02	0.40
1:A:654:LEU:HD13	1:B:662:ILE:CD1	2.49	0.40
1:C:260:VAL:C	1:C:262:ASP:H	2.47	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:601:MET:O	1:C:604:PHE:O	2.52	0.40
1:C:752:ALA:O	1:C:755:THR:HG22	2.22	0.40
1:D:127:LEU:HB3	1:E:64:PRO:HD3	2.38	0.40
1:D:151:TYR:CD2	1:D:152:ILE:HD13	2.75	0.40
1:D:227:LEU:CB	1:D:251:VAL:HG12	2.51	0.40
1:D:401:VAL:HG11	1:D:406:TYR:CG	2.63	0.40
1:D:527:ILE:HD11	1:D:539:LEU:HD12	3.10	0.40
1:E:283:VAL:HG22	1:E:301:VAL:HG13	2.93	0.40
1:D:296:LEU:HD21	1:E:307:SER:HB3	2.20	0.40
1:E:385:ASN:HA	1:E:385:ASN:HD22	1.63	0.40
1:E:452:ARG:HH11	1:E:452:ARG:CG	2.29	0.40
1:E:426:LEU:HD21	1:E:495:PHE:CE1	2.56	0.40
1:E:67:ARG:CD	1:E:108:ASP:HB3	2.50	0.40
1:F:130:GLU:H	1:F:137:VAL:CG1	6.51	0.40
1:F:155:LYS:HZ2	1:F:155:LYS:H	1.69	0.40
1:F:338:GLN:HB2	1:F:339:PRO:CD	2.38	0.40
1:F:335:LYS:CE	1:F:359:ILE:HD12	2.51	0.40
1:F:558:ALA:O	1:F:561:LEU:HD12	2.38	0.40
1:F:564:VAL:HG23	1:F:564:VAL:O	2.39	0.40
1:F:606:PHE:CA	1:F:622:ALA:HA	2.51	0.40
1:G:196:TRP:HE3	1:G:196:TRP:HA	1.84	0.40
1:G:276:LEU:HD12	1:G:278:PRO:HD2	2.03	0.40
1:H:526:VAL:HA	1:H:539:LEU:O	2.40	0.40
1:H:68:ASP:HA	1:H:90:ILE:HA	2.24	0.40
1:H:690:ARG:HH22	1:I:698:GLU:HG3	1.86	0.40
1:H:771:ILE:HA	1:H:774:ARG:NH1	2.66	0.40
1:I:113:GLN:OE1	1:I:150:THR:N	2.54	0.40
1:I:152:ILE:CD1	1:I:152:ILE:N	3.21	0.40
1:H:297:GLY:O	1:I:276:LEU:HD22	2.40	0.40
1:I:543:TYR:CD2	1:I:638:VAL:HG13	2.85	0.40
1:I:63:ASN:N	1:I:64:PRO:HD2	2.37	0.40
1:J:121:LEU:HD12	1:J:145:PHE:CD2	2.54	0.40
1:J:419:LEU:HD22	1:J:422:GLY:H	2.37	0.40
1:J:549:LEU:HD12	1:J:552:ARG:HA	2.03	0.40
1:K:245:THR:CG2	1:K:246:GLY:N	2.83	0.40
1:K:3:THR:CG2	1:K:50:MET:HE2	2.88	0.40
1:K:60:ILE:CD1	1:K:60:ILE:H	2.20	0.40
1:L:228:HIS:NE2	1:L:312:PRO:HB3	2.59	0.40
1:L:418:GLU:HG2	1:L:423:VAL:HG22	2.03	0.40
1:L:498:LEU:HD21	1:L:562:PHE:HD2	1.87	0.40
1:M:108:ASP:OD1	1:M:108:ASP:N	2.62	0.40
1:M:230:ARG:HD3	1:M:246:GLY:O	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:338:GLN:NE2	1:M:279:ARG:HD3	3.63	0.40
1:M:380:ILE:HA	1:M:381:PRO:HD3	1.86	0.40
1:M:473:TYR:O	1:M:476:LYS:HE3	2.22	0.40
1:M:67:ARG:HG2	1:M:108:ASP:HA	2.03	0.40
1:N:197:LEU:HA	1:N:197:LEU:HD22	1.94	0.40
1:N:236:ARG:NH1	1:N:236:ARG:HB3	2.37	0.40
1:N:324:TYR:HE1	1:N:373:VAL:HG21	1.86	0.40
1:N:382:LEU:HD13	1:N:387:GLY:HA2	2.02	0.40
1:N:654:LEU:O	1:N:657:SER:HB3	2.21	0.40
1:M:697:SER:HB3	1:N:706:LEU:HB2	2.02	0.40
1:O:284:ILE:CD1	1:O:300:ARG:HB3	2.49	0.40
1:O:326:LEU:HD21	1:O:333:LEU:CG	2.41	0.40
1:O:501:SER:HA	1:O:507:ARG:O	2.21	0.40
1:P:242:LEU:H	1:P:242:LEU:HD23	1.86	0.40
1:P:382:LEU:HD13	1:P:387:GLY:CA	2.50	0.40
1:P:399:ARG:HA	1:P:491:PRO:HG3	2.04	0.40
1:Q:120:ALA:HB3	1:Q:162:ILE:HG13	2.02	0.40
1:Q:283:VAL:HG22	1:Q:301:VAL:HG12	2.03	0.40
1:R:65:VAL:H	1:R:111:PRO:HD2	1.85	0.40
1:R:129:PHE:O	1:R:137:VAL:HG13	2.21	0.40
1:Q:675:HIS:CE1	1:R:681:GLU:HA	2.56	0.40
1:R:72:SER:HA	1:R:84:ARG:HG3	2.02	0.40
1:S:117:PRO:O	1:S:118:ASN:C	2.60	0.40
1:S:174:LEU:O	1:S:197:LEU:HA	2.21	0.40
1:S:574:ALA:O	1:S:578:ARG:HG3	2.21	0.40
1:S:679:ARG:HH21	1:S:680:LEU:CD2	2.34	0.40
1:S:771:ILE:HA	1:S:774:ARG:HH11	1.85	0.40
1:T:128:ASP:OD1	1:T:131:ASP:HB3	2.21	0.40
1:U:586:VAL:HG13	1:U:590:ASP:OD2	2.21	0.40
1:U:605:GLY:O	1:U:623:ARG:HB2	2.21	0.40
1:U:72:SER:HA	1:U:84:ARG:HE	1.86	0.40
1:V:326:LEU:HD13	1:V:360:ARG:HA	2.04	0.40
1:V:382:LEU:HD12	1:V:404:SER:O	2.21	0.40
1:W:113:GLN:OE1	1:W:149:GLY:HA2	2.20	0.40
1:W:383:ASP:HB2	1:W:386:GLU:HG2	2.03	0.40
1:W:689:GLU:O	1:W:693:ILE:HG12	2.21	0.40
1:X:281:TYR:C	1:X:281:TYR:CD1	2.95	0.40
1:X:11:PRO:CA	1:X:38:GLN:HA	2.46	0.40
1:X:5:GLU:O	1:X:41:GLU:O	2.38	0.40
1:Y:279:ARG:HG3	1:Y:280:HIS:CD2	2.55	0.40
1:Y:327:SER:O	1:Y:331:GLY:N	2.54	0.40
1:Y:568:VAL:HG23	1:Y:569:GLY:N	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Y:568:VAL:HG23	1:Y:569:GLY:H	1.86	0.40
1:Y:653:ALA:HA	1:Y:656:ARG:NH2	2.35	0.40
1:Z:147:GLY:HA3	1:Z:148:PRO:HD2	1.85	0.40
1:A:790:VAL:CG2	1:Z:785:GLN:HA	131.94	0.40
1:A:234:ASN:HD22	1:A:234:ASN:N	2.23	0.40
1:A:230:ARG:HB2	1:A:265:GLU:HB3	2.25	0.40
1:A:273:ILE:HD11	1:A:308:PHE:CD2	2.54	0.40
1:A:327:SER:O	1:A:328:GLU:HB2	2.34	0.40
1:A:417:LYS:HE2	1:A:417:LYS:HB2	1.84	0.40
1:A:458:VAL:CG1	1:A:489:LEU:HD12	3.01	0.40
1:A:777:LEU:O	1:A:780:GLU:HB2	2.57	0.40
1:C:311:GLN:HB2	1:C:314:GLU:HG3	2.03	0.40
1:C:332:LEU:CD2	1:C:360:ARG:HD3	2.52	0.40
1:C:474:ARG:HB3	1:C:492:GLU:HG3	2.03	0.40
1:C:758:GLU:O	1:C:762:VAL:HG23	2.22	0.40
1:D:239:ARG:HH21	1:D:257:GLU:HG2	2.49	0.40
1:D:359:ILE:H	1:D:359:ILE:HD13	1.86	0.40
1:D:554:ASP:HA	1:D:555:PRO:HD3	1.96	0.40
1:E:70:GLN:CG	1:E:104:VAL:HG12	2.80	0.40
1:E:135:ASP:HB3	1:E:136:LYS:H	1.56	0.40
1:F:123:LEU:CG	1:F:143:TRP:HB2	2.51	0.40
1:F:324:TYR:HE1	1:F:373:VAL:HG21	1.85	0.40
1:G:330:GLN:CB	1:G:379:ALA:HB3	2.44	0.40
1:G:527:ILE:CD1	1:G:539:LEU:HB2	2.49	0.40
1:G:812:VAL:HG12	1:G:812:VAL:O	2.21	0.40
1:H:128:ASP:HB2	1:H:155:LYS:HB3	2.38	0.40
1:H:252:THR:O	1:H:253:VAL:C	2.61	0.40
1:H:715:ALA:O	1:H:716:VAL:C	2.59	0.40
1:H:81:VAL:HG13	1:H:81:VAL:O	2.35	0.40
1:I:72:SER:OG	1:I:102:GLY:O	2.55	0.40
1:I:69:THR:HA	1:I:106:GLU:HB3	2.27	0.40
1:I:3:THR:H	1:I:50:MET:HE1	2.24	0.40
1:J:119:THR:HG21	1:J:161:GLU:HB2	2.34	0.40
1:J:152:ILE:HD12	1:J:152:ILE:H	2.54	0.40
1:J:285:LEU:C	1:J:287:PRO:HD3	2.68	0.40
1:J:333:LEU:HB2	1:J:359:ILE:HD11	3.10	0.40
1:J:417:LYS:HE2	1:J:491:PRO:O	2.21	0.40
1:J:588:PHE:CE2	1:K:662:ILE:CD1	6.47	0.40
1:K:130:GLU:HA	1:K:137:VAL:N	2.64	0.40
1:K:564:VAL:CG2	1:K:631:ASN:HD22	2.33	0.40
1:K:621:LYS:HA	1:K:621:LYS:HE3	2.02	0.40
1:L:10:ILE:HG23	1:L:11:PRO:HD2	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:14:HIS:O	1:L:53:VAL:O	2.67	0.40
1:L:173:ALA:HB1	1:L:198:VAL:O	2.21	0.40
1:M:252:THR:O	1:M:253:VAL:C	2.59	0.40
1:M:336:ALA:HA	1:M:356:CYS:CB	2.52	0.40
1:M:7:ILE:H	1:M:41:GLU:HG3	1.91	0.40
1:N:13:TYR:N	1:N:13:TYR:HD1	2.18	0.40
1:N:523:PHE:CD1	1:N:545:TRP:NE1	2.88	0.40
1:N:599:ILE:C	1:N:601:MET:N	2.74	0.40
1:O:120:ALA:HB3	1:O:162:ILE:CD1	2.51	0.40
1:O:36:ILE:HG21	1:O:99:LEU:CD1	2.51	0.40
1:P:11:PRO:HB3	1:P:38:GLN:OE1	2.21	0.40
1:P:29:GLU:O	1:P:84:ARG:NH1	2.42	0.40
1:P:62:ALA:O	1:P:93:ALA:HB2	2.20	0.40
1:Q:260:VAL:C	1:Q:262:ASP:H	2.24	0.40
1:Q:389:TYR:CE2	1:Q:457:VAL:HG22	2.56	0.40
1:Q:360:ARG:CD	1:Q:407:MET:HG2	2.51	0.40
1:Q:747:LYS:HA	1:Q:747:LYS:HD3	1.88	0.40
1:Q:766:ARG:CG	1:R:772:TYR:CD1	3.04	0.40
1:R:183:PHE:HA	1:R:190:ARG:CB	2.51	0.40
1:S:368:SER:HB3	1:S:371:VAL:HG23	2.02	0.40
1:S:469:GLN:O	1:S:496:THR:HB	2.21	0.40
1:T:526:VAL:HA	1:T:539:LEU:O	2.21	0.40
1:T:653:ALA:HA	1:T:656:ARG:NH2	2.35	0.40
1:U:519:GLY:O	1:U:521:ASP:N	2.44	0.40
1:U:579:VAL:CG2	1:U:599:ILE:HG23	2.51	0.40
1:U:759:LEU:CD1	1:V:764:LYS:HB3	2.51	0.40
1:X:421:SER:O	1:X:423:VAL:N	2.54	0.40
1:X:539:LEU:HA	1:X:642:SER:O	2.22	0.40
1:Y:291:ASP:C	1:Y:293:LYS:H	2.25	0.40
1:Y:398:VAL:HG11	1:Y:415:TRP:CE3	2.55	0.40
1:Z:114:VAL:HG12	1:Z:118:ASN:HD21	1.86	0.40
1:Z:167:VAL:HG22	1:Z:200:SER:O	2.20	0.40
1:A:128:ASP:HB2	1:A:155:LYS:HB3	2.06	0.40
1:A:220:ILE:O	1:A:253:VAL:HG22	2.22	0.40
1:A:288:MET:HE2	1:A:294:ASN:ND2	2.63	0.40
1:A:273:ILE:CD1	1:A:316:LEU:HD11	4.39	0.40
1:A:334:LEU:HD23	1:A:335:LYS:N	2.60	0.40
1:A:339:PRO:HG2	1:A:370:LYS:HE2	2.38	0.40
1:A:678:GLN:O	1:A:681:GLU:HB3	2.22	0.40
1:A:747:LYS:HA	1:A:747:LYS:HD3	1.77	0.40
1:B:63:ASN:N	1:B:64:PRO:CD	2.83	0.40
1:D:154:GLN:CG	1:D:155:LYS:N	2.83	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:179:ARG:NH1	1:D:210:GLU:HG3	2.37	0.40
1:D:226:ALA:O	1:D:269:GLY:HA2	2.38	0.40
1:D:383:ASP:N	1:D:383:ASP:OD1	2.58	0.40
1:D:67:ARG:HG2	1:D:108:ASP:CB	2.50	0.40
1:D:76:ASP:OD1	1:D:81:VAL:HA	2.65	0.40
1:D:90:ILE:HD11	1:D:152:ILE:HG22	3.47	0.40
1:E:90:ILE:HG23	1:E:154:GLN:HB2	2.03	0.40
1:E:252:THR:O	1:E:253:VAL:C	2.59	0.40
1:E:554:ASP:OD1	1:E:557:GLU:HB2	2.21	0.40
1:E:713:SER:O	1:E:714:MET:C	2.59	0.40
1:F:469:GLN:O	1:F:496:THR:HB	2.21	0.40
1:F:529:ILE:O	1:F:529:ILE:HD12	2.46	0.40
1:F:796:LYS:O	1:F:799:THR:HG22	2.21	0.40
1:G:114:VAL:CA	1:G:118:ASN:ND2	3.18	0.40
1:G:527:ILE:HG21	1:G:576:ALA:CB	2.51	0.40
1:G:627:VAL:HG13	1:G:634:VAL:HG22	2.03	0.40
1:G:633:LEU:HD23	1:G:634:VAL:N	2.44	0.40
1:H:58:TYR:CG	1:H:98:PRO:HA	2.91	0.40
1:I:114:VAL:HA	1:I:118:ASN:ND2	2.35	0.40
1:I:256:THR:O	1:I:256:THR:HG23	2.49	0.40
1:J:251:VAL:HG21	1:J:257:GLU:HG2	2.09	0.40
1:J:36:ILE:HD11	1:J:58:TYR:CE1	2.41	0.40
1:J:507:ARG:HA	1:J:508:PRO:HD3	2.05	0.40
1:K:380:ILE:HD12	1:K:406:TYR:O	4.73	0.40
1:K:380:ILE:HA	1:K:381:PRO:HD3	1.92	0.40
1:L:30:VAL:HG22	1:L:74:LEU:CD1	2.65	0.40
1:M:221:LEU:CD1	1:M:256:THR:HB	2.43	0.40
1:M:280:HIS:O	1:M:303:LYS:O	2.38	0.40
1:L:354:GLY:CA	1:M:328:GLU:HG3	2.51	0.40
1:N:336:ALA:HA	1:N:356:CYS:CB	2.51	0.40
1:N:389:TYR:CE1	1:N:417:LYS:HG2	2.56	0.40
1:P:14:HIS:HB3	1:P:56:ARG:CG	2.48	0.40
1:S:123:LEU:CG	1:S:143:TRP:HB2	2.51	0.40
1:S:185:ARG:NH2	1:S:207:ALA:HB3	2.35	0.40
1:S:530:GLU:OE1	1:T:592:HIS:HE1	2.04	0.40
1:S:766:ARG:HD3	1:T:772:TYR:CB	2.48	0.40
1:T:121:LEU:HB2	1:T:145:PHE:CB	2.49	0.40
1:T:251:VAL:CG2	1:T:254:GLN:HE21	2.34	0.40
1:T:398:VAL:N	1:U:384:GLN:OE1	2.52	0.40
1:U:481:VAL:CG1	1:U:481:VAL:O	2.69	0.40
1:V:175:ARG:NH1	1:V:212:VAL:HG11	2.36	0.40
1:U:708:GLU:HG3	1:V:716:VAL:HG11	2.02	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:20:ASP:HB2	1:W:49:ARG:HD3	2.03	0.40
1:W:533:ASP:CG	1:W:588:PHE:H	2.23	0.40
1:X:113:GLN:OE1	1:X:150:THR:N	2.54	0.40
1:X:261:PRO:HD2	1:X:264:TYR:HB2	2.03	0.40
1:X:747:LYS:HA	1:X:747:LYS:HD3	1.77	0.40
1:X:770:LEU:HD13	1:X:774:ARG:CZ	2.49	0.40
1:Y:130:GLU:N	1:Y:137:VAL:CG1	2.73	0.40
1:Y:204:TYR:HD1	1:Y:206:PRO:HD3	1.87	0.40
1:Y:276:LEU:N	1:Y:280:HIS:HB2	2.36	0.40
1:Y:416:GLU:HB2	1:Y:454:LYS:HB3	2.03	0.40
1:Y:40:ASN:HB3	1:Y:42:ARG:HH11	1.87	0.40
1:Y:564:VAL:HG22	1:Y:631:ASN:ND2	2.35	0.40
1:Z:311:GLN:N	1:Z:314:GLU:HG3	2.35	0.40
1:A:278:PRO:HB3	1:Z:339:PRO:HD3	307.57	0.40
1:Z:568:VAL:HG23	1:Z:569:GLY:H	1.87	0.40
1:Z:692:LYS:HG2	1:Z:696:GLN:HE21	1.86	0.40
1:A:1:MET:O	1:A:2:ALA:CB	2.70	0.40
1:A:472:ASP:OD1	1:A:474:ARG:HG3	2.78	0.40
1:A:542:ALA:HB2	1:Z:573:LYS:HD2	223.40	0.40
1:A:74:LEU:HD22	1:A:100:TYR:CE2	2.77	0.40
1:B:11:PRO:HB2	1:B:12:PRO:HD3	2.04	0.40
1:B:184:ASP:C	1:B:186:GLU:H	2.60	0.40
1:B:185:ARG:HH21	1:B:208:VAL:HG22	2.17	0.40
1:B:481:VAL:HG21	1:B:487:VAL:HG13	2.04	0.40
1:B:533:ASP:O	1:B:534:HIS:HB2	2.29	0.40
1:C:332:LEU:HG	1:C:360:ARG:HB2	2.04	0.40
1:C:495:PHE:CG	1:C:514:LEU:HD11	2.57	0.40
1:C:549:LEU:HD22	1:C:549:LEU:HA	1.89	0.40
1:C:591:PHE:HZ	1:C:599:ILE:HD11	1.86	0.40
1:C:747:LYS:HB3	1:C:751:LEU:HD12	2.06	0.40
1:D:17:HIS:HA	1:D:49:ARG:O	2.21	0.40
1:D:221:LEU:HD21	1:D:256:THR:CG2	2.50	0.40
1:F:167:VAL:HG13	1:F:202:GLY:N	2.36	0.40
1:F:381:PRO:HA	1:F:405:THR:HB	2.03	0.40
1:G:340:LEU:HG	1:G:353:ALA:N	3.23	0.40
1:G:335:LYS:HE2	1:G:371:VAL:HG11	2.02	0.40
1:G:568:VAL:HG23	1:G:569:GLY:N	2.37	0.40
1:G:649:ARG:HB3	1:G:649:ARG:HE	2.38	0.40
1:H:328:GLU:CG	1:H:329:GLN:H	2.21	0.40
1:H:343:GLY:HA2	1:H:348:LYS:HA	2.70	0.40
1:H:531:THR:HA	1:H:583:VAL:O	2.30	0.40
1:H:30:VAL:HG22	1:H:74:LEU:HD11	2.32	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:57:HIS:HB2	1:I:59:CYS:SG	2.80	0.40
1:J:13:TYR:CD1	1:J:13:TYR:N	2.90	0.40
1:J:226:ALA:HB2	1:J:252:THR:HB	2.04	0.40
1:I:338:GLN:OE1	1:J:278:PRO:HB2	2.22	0.40
1:J:502:ALA:HB2	1:J:511:ARG:HB3	2.40	0.40
1:K:100:TYR:CB	1:K:101:PRO:CD	2.97	0.40
1:K:335:LYS:NZ	1:K:335:LYS:HB2	2.38	0.40
1:K:382:LEU:HD11	1:K:388:ILE:HD12	2.04	0.40
1:K:3:THR:O	1:K:5:GLU:OE2	2.61	0.40
1:K:60:ILE:HD12	1:K:60:ILE:N	2.41	0.40
1:K:74:LEU:HD12	1:K:84:ARG:CZ	3.21	0.40
1:K:8:ILE:HG22	1:K:40:ASN:HD21	1.86	0.40
1:L:85:HIS:NE2	1:L:102:GLY:HA3	2.84	0.40
1:L:180:LYS:O	1:L:182:CYS:N	2.54	0.40
1:L:230:ARG:HD3	1:L:246:GLY:O	2.20	0.40
1:L:328:GLU:OE1	1:L:362:PRO:HA	5.91	0.40
1:L:385:ASN:HD22	1:L:385:ASN:HA	1.69	0.40
1:L:360:ARG:NE	1:L:407:MET:HG2	2.88	0.40
1:L:594:ASN:HB2	1:L:598:ILE:CD1	2.52	0.40
1:M:164:GLN:CD	1:M:204:TYR:HB3	2.41	0.40
1:M:189:GLY:O	1:M:196:TRP:HZ2	2.15	0.40
1:M:227:LEU:HD13	1:M:229:LEU:HD21	2.04	0.40
1:M:242:LEU:HD23	1:M:242:LEU:H	1.87	0.40
1:M:279:ARG:HA	1:M:323:VAL:HG22	2.04	0.40
1:M:522:PHE:CD2	1:M:522:PHE:C	2.97	0.40
1:N:115:VAL:H	1:N:118:ASN:ND2	2.16	0.40
1:N:164:GLN:H	1:N:164:GLN:HG2	1.70	0.40
1:N:579:VAL:CG2	1:N:599:ILE:HG23	2.51	0.40
1:M:649:ARG:HH21	1:N:655:GLN:HG2	1.86	0.40
1:N:812:VAL:HG12	1:N:812:VAL:O	2.21	0.40
1:O:208:VAL:HG23	1:O:209:PHE:HD2	1.87	0.40
1:O:387:GLY:HA3	1:O:402:ILE:HA	2.04	0.40
1:O:554:ASP:HA	1:O:555:PRO:HD3	1.69	0.40
1:O:600:ARG:HH11	1:O:622:ALA:HB3	1.85	0.40
1:P:13:TYR:CD1	1:P:13:TYR:N	2.88	0.40
1:R:332:LEU:HD23	1:R:358:LEU:CD1	2.45	0.40
1:R:596:ALA:O	1:R:600:ARG:HB2	2.21	0.40
1:R:714:MET:O	1:R:714:MET:HE3	2.21	0.40
1:S:65:VAL:HA	1:S:110:THR:CA	2.49	0.40
1:T:24:ASN:ND2	1:T:30:VAL:HB	2.36	0.40
1:T:679:ARG:HH21	1:T:680:LEU:HD23	1.86	0.40
1:U:421:SER:O	1:U:423:VAL:N	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:805:GLY:O	1:U:809:ASP:N	2.46	0.40
1:V:3:THR:O	1:V:50:MET:HE1	2.22	0.40
1:V:497:VAL:HG12	1:V:498:LEU:N	2.37	0.40
1:V:57:HIS:O	1:V:99:LEU:HD11	2.22	0.40
1:U:759:LEU:HD22	1:V:768:MET:HG3	2.03	0.40
1:V:69:THR:HG21	1:V:91:ARG:CZ	2.51	0.40
1:W:128:ASP:HB2	1:W:155:LYS:HB3	2.03	0.40
1:W:113:GLN:CG	1:W:150:THR:HB	2.52	0.40
1:W:566:ASP:OD2	1:W:569:GLY:HA3	2.21	0.40
1:X:533:ASP:O	1:X:534:HIS:HB2	2.22	0.40
1:X:549:LEU:HA	1:X:549:LEU:HD22	1.98	0.40
1:Y:183:PHE:HD2	1:Y:184:ASP:N	2.19	0.40
1:Y:276:LEU:HB2	1:Y:280:HIS:CG	2.57	0.40
1:Y:787:LEU:O	1:Y:790:VAL:HG12	2.21	0.40
1:Y:9:ARG:CZ	1:Y:15:TYR:HB3	2.51	0.40
1:Z:752:ALA:O	1:Z:756:GLU:HB2	2.21	0.40
1:A:10:ILE:HA	1:A:11:PRO:HD2	1.91	0.40
1:A:150:THR:HG23	1:A:151:TYR:N	2.36	0.40
1:A:113:GLN:OE1	1:A:150:THR:N	2.55	0.40
1:A:335:LYS:HE2	1:A:371:VAL:HG11	2.13	0.40
1:A:36:ILE:O	1:A:37:ARG:CG	2.69	0.40
1:A:485:GLU:HG3	1:Z:476:LYS:CE	274.15	0.40
1:A:501:SER:HA	1:A:507:ARG:O	2.30	0.40
1:A:566:ASP:OD2	1:A:569:GLY:HA3	2.31	0.40
1:B:130:GLU:CA	1:B:137:VAL:H	2.34	0.40
1:B:273:ILE:CG2	1:B:310:LEU:HD11	2.55	0.40
1:B:462:VAL:HG22	1:B:468:VAL:CG2	2.68	0.40
1:B:645:PRO:HG2	1:B:651:ARG:HG3	2.14	0.40
1:C:13:TYR:N	1:C:13:TYR:CD1	2.92	0.40
1:C:113:GLN:CG	1:C:150:THR:HB	2.70	0.40
1:C:273:ILE:HD12	1:C:316:LEU:HD21	2.33	0.40
1:C:394:LYS:HG2	1:D:329:GLN:CG	2.50	0.40
1:C:389:TYR:CZ	1:C:457:VAL:HA	2.56	0.40
1:C:663:GLU:O	1:C:666:THR:HG22	2.20	0.40
1:D:273:ILE:CG2	1:D:310:LEU:HD11	2.63	0.40
1:D:594:ASN:O	1:D:595:SER:C	2.59	0.40
1:D:77:ILE:CG1	1:D:80:GLN:CB	2.99	0.40
1:E:151:TYR:N	1:E:151:TYR:HD1	2.44	0.40
1:E:383:ASP:O	1:E:385:ASN:N	2.88	0.40
1:E:660:LEU:HA	1:E:663:GLU:HB3	2.04	0.40
1:E:746:LEU:HD23	1:E:749:GLN:HE21	2.48	0.40
1:E:781:VAL:O	1:E:782:SER:C	2.60	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:302:VAL:HG21	1:F:308:PHE:CE2	2.56	0.40
1:F:332:LEU:HD23	1:F:358:LEU:HD11	2.03	0.40
1:G:252:THR:O	1:G:253:VAL:C	2.60	0.40
1:G:685:ARG:HE	1:G:685:ARG:HB2	1.49	0.40
1:H:108:ASP:OD1	1:H:108:ASP:N	2.64	0.40
1:H:109:ILE:CD1	1:H:153:PRO:CG	2.99	0.40
1:H:273:ILE:HD11	1:H:308:PHE:HD2	2.66	0.40
1:H:414:LEU:HB3	1:H:455:THR:HG21	2.04	0.40
1:H:522:PHE:O	1:H:522:PHE:CD2	2.74	0.40
1:H:522:PHE:C	1:H:522:PHE:HD2	2.21	0.40
1:H:84:ARG:HG2	1:H:85:HIS:ND1	3.37	0.40
1:I:67:ARG:NH2	1:I:107:LYS:HA	2.29	0.40
1:I:340:LEU:HG	1:I:353:ALA:HB2	2.03	0.40
1:I:490:ASP:OD2	1:I:491:PRO:HD2	2.21	0.40
1:I:603:VAL:HG11	1:I:638:VAL:HG21	2.03	0.40
1:I:807:ILE:HG13	1:I:808:ARG:H	2.98	0.40
1:J:65:VAL:HA	1:J:110:THR:HA	2.03	0.40
1:J:285:LEU:O	1:J:286:ASP:C	2.66	0.40
1:J:452:ARG:HH22	1:J:458:VAL:HG22	1.85	0.40
1:J:599:ILE:O	1:J:603:VAL:HG23	2.44	0.40
1:J:807:ILE:CD1	1:K:806:THR:HG21	2.52	0.40
1:K:600:ARG:HH11	1:K:622:ALA:HB3	2.80	0.40
1:L:251:VAL:HG21	1:L:257:GLU:HG2	2.11	0.40
1:L:398:VAL:HG11	1:L:415:TRP:CD2	2.56	0.40
1:L:389:TYR:OH	1:L:489:LEU:O	2.32	0.40
1:L:16:ILE:HG13	1:L:53:VAL:HG21	2.68	0.40
1:L:62:ALA:HB3	1:L:64:PRO:HG2	2.04	0.40
1:L:660:LEU:HA	1:L:663:GLU:CB	2.78	0.40
1:M:10:ILE:H	1:M:10:ILE:CD1	3.46	0.40
1:L:340:LEU:HD11	1:M:363:LEU:HD11	2.04	0.40
1:M:537:LEU:HD21	1:M:588:PHE:HE1	2.01	0.40
1:A:732:ALA:HB2	1:M:722:ALA:HB1	160.29	0.40
1:N:289:GLY:HA3	1:N:290:PRO:HD2	1.86	0.40
1:O:17:HIS:CD2	1:O:18:VAL:HG22	2.56	0.40
1:P:328:GLU:OE1	1:P:328:GLU:CA	2.45	0.40
1:P:418:GLU:OE2	1:P:452:ARG:NH1	2.54	0.40
1:P:511:ARG:NH2	1:P:517:LEU:HD11	2.18	0.40
1:P:549:LEU:HA	1:P:549:LEU:HD22	1.91	0.40
1:O:766:ARG:HD3	1:P:772:TYR:HB2	2.03	0.40
1:Q:164:GLN:NE2	1:Q:204:TYR:CB	2.80	0.40
1:Q:320:ILE:N	1:Q:320:ILE:CD1	2.83	0.40
1:P:679:ARG:HG3	1:Q:691:GLN:HE22	1.87	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:104:VAL:HG22	1:R:105:LEU:H	1.87	0.40
1:R:529:ILE:HD11	1:R:539:LEU:HD11	2.03	0.40
1:S:621:LYS:HE3	1:S:621:LYS:HA	2.03	0.40
1:T:279:ARG:HG3	1:T:280:HIS:HD2	1.85	0.40
1:T:288:MET:HE2	1:T:294:ASN:ND2	2.36	0.40
1:T:23:SER:HB3	1:T:31:GLY:C	2.42	0.40
1:T:318:ARG:O	1:T:321:GLN:HG2	2.21	0.40
1:T:333:LEU:HD12	1:T:359:ILE:HD11	2.04	0.40
1:T:384:GLN:NE2	1:T:384:GLN:H	2.19	0.40
1:T:399:ARG:HG2	1:T:399:ARG:NH1	2.36	0.40
1:T:501:SER:HB3	1:T:507:ARG:O	2.22	0.40
1:U:227:LEU:HB2	1:U:251:VAL:CG1	2.51	0.40
1:U:22:ASN:HA	1:U:22:ASN:HD22	1.71	0.40
1:U:273:ILE:HG23	1:U:310:LEU:HD11	2.03	0.40
1:U:332:LEU:HD23	1:U:358:LEU:CD1	2.51	0.40
1:V:549:LEU:HD12	1:V:552:ARG:HA	2.04	0.40
1:W:333:LEU:HB2	1:W:359:ILE:HD12	2.03	0.40
1:X:235:PHE:CE2	1:X:243:HIS:CB	3.04	0.40
1:X:260:VAL:CB	1:X:263:VAL:HA	2.50	0.40
1:X:332:LEU:HD23	1:X:358:LEU:HD12	2.02	0.40
1:X:415:TRP:CH2	1:X:417:LYS:HB3	2.56	0.40
1:Y:567:PHE:HD2	1:Y:633:LEU:HD11	1.86	0.40
1:Y:674:LYS:HE2	1:Y:678:GLN:HE22	1.87	0.40
1:Z:175:ARG:HB2	1:Z:213:LEU:O	2.21	0.40
1:A:305:GLU:CD	1:Z:298:GLN:HG3	317.24	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	776/861 (90%)	634 (82%)	119 (15%)	23 (3%)	7 53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	776/861 (90%)	640 (82%)	114 (15%)	22 (3%)	8	55
1	C	776/861 (90%)	639 (82%)	109 (14%)	28 (4%)	5	49
1	D	776/861 (90%)	635 (82%)	108 (14%)	33 (4%)	4	42
1	E	776/861 (90%)	637 (82%)	107 (14%)	32 (4%)	4	44
1	F	776/861 (90%)	627 (81%)	118 (15%)	31 (4%)	5	44
1	G	776/861 (90%)	648 (84%)	101 (13%)	27 (4%)	6	50
1	H	776/861 (90%)	636 (82%)	109 (14%)	31 (4%)	5	44
1	I	776/861 (90%)	650 (84%)	98 (13%)	28 (4%)	5	49
1	J	776/861 (90%)	637 (82%)	109 (14%)	30 (4%)	5	45
1	K	776/861 (90%)	631 (81%)	104 (13%)	41 (5%)	3	35
1	L	776/861 (90%)	637 (82%)	103 (13%)	36 (5%)	4	39
1	M	776/861 (90%)	633 (82%)	107 (14%)	36 (5%)	4	39
1	N	776/861 (90%)	639 (82%)	102 (13%)	35 (4%)	4	40
1	O	776/861 (90%)	637 (82%)	102 (13%)	37 (5%)	4	38
1	P	776/861 (90%)	627 (81%)	117 (15%)	32 (4%)	4	44
1	Q	776/861 (90%)	633 (82%)	104 (13%)	39 (5%)	3	37
1	R	776/861 (90%)	627 (81%)	109 (14%)	40 (5%)	3	35
1	S	776/861 (90%)	624 (80%)	115 (15%)	37 (5%)	4	38
1	T	776/861 (90%)	631 (81%)	113 (15%)	32 (4%)	4	44
1	U	776/861 (90%)	642 (83%)	100 (13%)	34 (4%)	4	41
1	V	776/861 (90%)	639 (82%)	110 (14%)	27 (4%)	6	50
1	W	776/861 (90%)	647 (83%)	96 (12%)	33 (4%)	4	42
1	X	776/861 (90%)	648 (84%)	97 (12%)	31 (4%)	5	44
1	Y	776/861 (90%)	644 (83%)	98 (13%)	34 (4%)	4	41
1	Z	776/861 (90%)	649 (84%)	97 (12%)	30 (4%)	5	45
1	a	776/861 (90%)	639 (82%)	108 (14%)	29 (4%)	5	48
1	b	776/861 (90%)	635 (82%)	112 (14%)	29 (4%)	5	48
1	c	776/861 (90%)	642 (83%)	101 (13%)	33 (4%)	4	42
1	d	776/861 (90%)	630 (81%)	118 (15%)	28 (4%)	5	49
1	e	776/861 (90%)	629 (81%)	113 (15%)	34 (4%)	4	41
1	f	776/861 (90%)	642 (83%)	99 (13%)	35 (4%)	4	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	g	776/861 (90%)	637 (82%)	98 (13%)	41 (5%)	3	35
1	h	776/861 (90%)	639 (82%)	97 (12%)	40 (5%)	3	35
1	i	776/861 (90%)	634 (82%)	104 (13%)	38 (5%)	3	37
1	j	776/861 (90%)	634 (82%)	107 (14%)	35 (4%)	4	40
1	k	776/861 (90%)	633 (82%)	105 (14%)	38 (5%)	3	37
1	l	776/861 (90%)	632 (81%)	107 (14%)	37 (5%)	4	38
1	m	776/861 (90%)	634 (82%)	108 (14%)	34 (4%)	4	41
All	All	30264/33579 (90%)	24831 (82%)	4143 (14%)	1290 (4%)	4	42

All (1290) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	135	ASP
1	A	148	PRO
1	A	169	LYS
1	A	253	VAL
1	A	296	LEU
1	A	328	GLU
1	A	355	ASP
1	B	54	PRO
1	B	148	PRO
1	B	169	LYS
1	B	201	VAL
1	B	253	VAL
1	B	279	ARG
1	B	328	GLU
1	B	355	ASP
1	C	116	LEU
1	C	148	PRO
1	C	169	LYS
1	C	253	VAL
1	C	296	LEU
1	C	328	GLU
1	C	355	ASP
1	D	54	PRO
1	D	61	VAL
1	D	148	PRO
1	D	169	LYS
1	D	182	CYS
1	D	201	VAL

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Mol	Chain	Res	Type
1	D	253	VAL
1	D	328	GLU
1	D	355	ASP
1	E	54	PRO
1	E	148	PRO
1	E	169	LYS
1	E	182	CYS
1	E	253	VAL
1	E	296	LEU
1	E	355	ASP
1	F	148	PRO
1	F	169	LYS
1	F	191	VAL
1	F	296	LEU
1	F	328	GLU
1	F	355	ASP
1	F	520	PRO
1	G	148	PRO
1	G	169	LYS
1	G	201	VAL
1	G	328	GLU
1	G	355	ASP
1	H	116	LEU
1	H	148	PRO
1	H	169	LYS
1	H	182	CYS
1	H	262	ASP
1	H	296	LEU
1	H	328	GLU
1	H	355	ASP
1	I	54	PRO
1	I	61	VAL
1	I	118	ASN
1	I	148	PRO
1	I	169	LYS
1	I	182	CYS
1	I	253	VAL
1	I	276	LEU
1	I	355	ASP
1	J	135	ASP
1	J	148	PRO
1	J	181	GLU

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Mol	Chain	Res	Type
1	J	182	CYS
1	J	296	LEU
1	J	328	GLU
1	J	355	ASP
1	K	52	THR
1	K	54	PRO
1	K	98	PRO
1	K	118	ASN
1	K	148	PRO
1	K	169	LYS
1	K	182	CYS
1	K	191	VAL
1	K	253	VAL
1	K	276	LEU
1	K	296	LEU
1	K	768	MET
1	L	58	TYR
1	L	61	VAL
1	L	98	PRO
1	L	133	ASN
1	L	148	PRO
1	L	169	LYS
1	L	182	CYS
1	L	242	LEU
1	L	253	VAL
1	L	327	SER
1	M	116	LEU
1	M	169	LYS
1	M	181	GLU
1	M	253	VAL
1	M	296	LEU
1	M	328	GLU
1	M	355	ASP
1	N	54	PRO
1	N	116	LEU
1	N	133	ASN
1	N	181	GLU
1	N	201	VAL
1	N	253	VAL
1	N	296	LEU
1	N	328	GLU
1	N	353	ALA

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Mol	Chain	Res	Type
1	N	355	ASP
1	O	148	PRO
1	O	169	LYS
1	O	201	VAL
1	O	253	VAL
1	O	319	GLY
1	O	328	GLU
1	O	422	GLY
1	P	54	PRO
1	P	148	PRO
1	P	169	LYS
1	P	181	GLU
1	P	201	VAL
1	P	328	GLU
1	P	353	ALA
1	P	355	ASP
1	Q	54	PRO
1	Q	169	LYS
1	Q	253	VAL
1	Q	296	LEU
1	Q	328	GLU
1	Q	353	ALA
1	R	26	SER
1	R	54	PRO
1	R	98	PRO
1	R	118	ASN
1	R	139	ALA
1	R	148	PRO
1	R	169	LYS
1	R	191	VAL
1	R	253	VAL
1	R	296	LEU
1	R	328	GLU
1	R	353	ALA
1	R	812	VAL
1	S	54	PRO
1	S	61	VAL
1	S	169	LYS
1	S	181	GLU
1	S	253	VAL
1	S	296	LEU
1	S	328	GLU

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Mol	Chain	Res	Type
1	T	169	LYS
1	T	296	LEU
1	T	422	GLY
1	U	169	LYS
1	U	182	CYS
1	U	201	VAL
1	U	253	VAL
1	U	296	LEU
1	U	353	ALA
1	U	506	LYS
1	V	54	PRO
1	V	169	LYS
1	V	182	CYS
1	V	253	VAL
1	V	418	GLU
1	W	61	VAL
1	W	148	PRO
1	W	169	LYS
1	W	191	VAL
1	W	253	VAL
1	W	296	LEU
1	W	328	GLU
1	W	355	ASP
1	X	148	PRO
1	X	169	LYS
1	X	182	CYS
1	X	296	LEU
1	X	355	ASP
1	Y	61	VAL
1	Y	117	PRO
1	Y	148	PRO
1	Y	194	GLU
1	Y	296	LEU
1	Y	355	ASP
1	Z	61	VAL
1	Z	116	LEU
1	Z	148	PRO
1	Z	169	LYS
1	Z	253	VAL
1	Z	296	LEU
1	Z	355	ASP
1	a	54	PRO

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Mol	Chain	Res	Type
1	a	148	PRO
1	a	169	LYS
1	a	181	GLU
1	a	253	VAL
1	a	296	LEU
1	a	328	GLU
1	b	54	PRO
1	b	116	LEU
1	b	135	ASP
1	b	148	PRO
1	b	169	LYS
1	b	253	VAL
1	b	328	GLU
1	c	116	LEU
1	c	118	ASN
1	c	169	LYS
1	c	182	CYS
1	c	253	VAL
1	c	296	LEU
1	c	327	SER
1	c	328	GLU
1	d	54	PRO
1	d	98	PRO
1	d	148	PRO
1	d	182	CYS
1	d	253	VAL
1	e	61	VAL
1	e	148	PRO
1	e	169	LYS
1	e	182	CYS
1	e	253	VAL
1	f	54	PRO
1	f	61	VAL
1	f	148	PRO
1	f	169	LYS
1	f	182	CYS
1	f	253	VAL
1	g	116	LEU
1	g	253	VAL
1	g	353	ALA
1	g	355	ASP
1	h	54	PRO

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Mol	Chain	Res	Type
1	h	116	LEU
1	h	182	CYS
1	h	201	VAL
1	h	253	VAL
1	h	296	LEU
1	h	319	GLY
1	h	328	GLU
1	h	355	ASP
1	i	54	PRO
1	i	116	LEU
1	i	148	PRO
1	i	169	LYS
1	i	182	CYS
1	i	201	VAL
1	i	253	VAL
1	i	296	LEU
1	i	328	GLU
1	i	355	ASP
1	j	116	LEU
1	j	148	PRO
1	j	169	LYS
1	j	253	VAL
1	j	328	GLU
1	j	422	GLY
1	k	52	THR
1	k	54	PRO
1	k	169	LYS
1	k	253	VAL
1	k	296	LEU
1	k	328	GLU
1	k	355	ASP
1	k	422	GLY
1	l	61	VAL
1	l	118	ASN
1	l	148	PRO
1	l	169	LYS
1	l	182	CYS
1	l	201	VAL
1	l	253	VAL
1	l	296	LEU
1	l	328	GLU
1	l	355	ASP

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Mol	Chain	Res	Type
1	m	54	PRO
1	m	116	LEU
1	m	148	PRO
1	m	169	LYS
1	m	201	VAL
1	m	279	ARG
1	m	296	LEU
1	m	328	GLU
1	m	355	ASP
1	A	54	PRO
1	A	116	LEU
1	A	182	CYS
1	A	201	VAL
1	A	812	VAL
1	B	116	LEU
1	B	296	LEU
1	C	54	PRO
1	C	61	VAL
1	C	181	GLU
1	C	277	GLY
1	C	319	GLY
1	C	346	GLU
1	D	94	GLN
1	D	116	LEU
1	D	296	LEU
1	D	422	GLY
1	D	605	GLY
1	E	116	LEU
1	E	319	GLY
1	E	328	GLU
1	E	422	GLY
1	E	491	PRO
1	E	803	GLY
1	F	54	PRO
1	F	116	LEU
1	F	181	GLU
1	F	211	GLU
1	F	212	VAL
1	F	276	LEU
1	F	319	GLY
1	F	422	GLY
1	F	769	GLU

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Mol	Chain	Res	Type
1	G	54	PRO
1	G	61	VAL
1	G	116	LEU
1	G	181	GLU
1	G	253	VAL
1	G	279	ARG
1	G	296	LEU
1	G	346	GLU
1	G	422	GLY
1	H	54	PRO
1	H	253	VAL
1	H	384	GLN
1	H	418	GLU
1	H	422	GLY
1	H	520	PRO
1	I	116	LEU
1	I	201	VAL
1	I	235	PHE
1	I	319	GLY
1	I	328	GLU
1	I	422	GLY
1	J	116	LEU
1	J	118	ASN
1	J	169	LYS
1	J	253	VAL
1	J	277	GLY
1	J	319	GLY
1	J	605	GLY
1	K	58	TYR
1	K	61	VAL
1	K	114	VAL
1	K	133	ASN
1	K	139	ALA
1	K	181	GLU
1	K	259	HIS
1	K	422	GLY
1	K	491	PRO
1	K	600	ARG
1	K	684	ALA
1	L	54	PRO
1	L	114	VAL
1	L	181	GLU

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Mol	Chain	Res	Type
1	L	276	LEU
1	L	277	GLY
1	L	296	LEU
1	L	319	GLY
1	L	328	GLU
1	L	353	ALA
1	L	422	GLY
1	L	573	LYS
1	L	812	VAL
1	M	54	PRO
1	M	61	VAL
1	M	118	ASN
1	M	182	CYS
1	M	276	LEU
1	M	277	GLY
1	M	319	GLY
1	M	339	PRO
1	M	422	GLY
1	M	605	GLY
1	M	684	ALA
1	N	61	VAL
1	N	148	PRO
1	N	182	CYS
1	N	221	LEU
1	N	263	VAL
1	N	276	LEU
1	N	319	GLY
1	N	422	GLY
1	O	54	PRO
1	O	116	LEU
1	O	135	ASP
1	O	181	GLU
1	O	182	CYS
1	O	191	VAL
1	O	238	LEU
1	O	296	LEU
1	O	803	GLY
1	P	116	LEU
1	P	139	ALA
1	P	182	CYS
1	P	298	GLN
1	P	422	GLY

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Mol	Chain	Res	Type
1	P	684	ALA
1	Q	52	THR
1	Q	61	VAL
1	Q	118	ASN
1	Q	133	ASN
1	Q	139	ALA
1	Q	181	GLU
1	Q	182	CYS
1	Q	191	VAL
1	Q	201	VAL
1	Q	319	GLY
1	Q	422	GLY
1	R	18	VAL
1	R	52	THR
1	R	61	VAL
1	R	101	PRO
1	R	182	CYS
1	R	221	LEU
1	R	339	PRO
1	R	491	PRO
1	R	803	GLY
1	S	148	PRO
1	S	201	VAL
1	S	422	GLY
1	S	803	GLY
1	S	812	VAL
1	T	54	PRO
1	T	61	VAL
1	T	116	LEU
1	T	201	VAL
1	T	328	GLU
1	T	355	ASP
1	T	803	GLY
1	U	26	SER
1	U	54	PRO
1	U	61	VAL
1	U	116	LEU
1	U	118	ASN
1	U	135	ASP
1	U	191	VAL
1	U	279	ARG
1	U	328	GLU

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Mol	Chain	Res	Type
1	U	383	ASP
1	U	422	GLY
1	U	671	ALA
1	U	803	GLY
1	U	812	VAL
1	V	61	VAL
1	V	116	LEU
1	V	181	GLU
1	V	190	ARG
1	V	346	GLU
1	V	422	GLY
1	V	605	GLY
1	W	54	PRO
1	W	116	LEU
1	W	418	GLU
1	W	422	GLY
1	X	61	VAL
1	X	116	LEU
1	X	135	ASP
1	X	139	ALA
1	X	276	LEU
1	X	277	GLY
1	X	328	GLU
1	X	422	GLY
1	X	605	GLY
1	Y	26	SER
1	Y	54	PRO
1	Y	169	LYS
1	Y	319	GLY
1	Y	327	SER
1	Y	328	GLU
1	Z	26	SER
1	Z	54	PRO
1	Z	181	GLU
1	Z	182	CYS
1	Z	263	VAL
1	Z	277	GLY
1	Z	327	SER
1	Z	338	GLN
1	Z	422	GLY
1	Z	520	PRO
1	a	26	SER

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Mol	Chain	Res	Type
1	a	61	VAL
1	a	116	LEU
1	a	277	GLY
1	a	422	GLY
1	a	605	GLY
1	b	118	ASN
1	b	181	GLU
1	b	422	GLY
1	b	427	LEU
1	b	803	GLY
1	c	181	GLU
1	c	277	GLY
1	c	355	ASP
1	c	803	GLY
1	c	812	VAL
1	d	61	VAL
1	d	101	PRO
1	d	276	LEU
1	d	327	SER
1	d	355	ASP
1	d	422	GLY
1	d	812	VAL
1	e	52	THR
1	e	54	PRO
1	e	98	PRO
1	e	117	PRO
1	e	277	GLY
1	e	296	LEU
1	e	319	GLY
1	e	328	GLU
1	e	355	ASP
1	e	422	GLY
1	e	803	GLY
1	f	94	GLN
1	f	116	LEU
1	f	118	ASN
1	f	201	VAL
1	f	277	GLY
1	f	355	ASP
1	f	506	LYS
1	f	803	GLY
1	f	812	VAL

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Mol	Chain	Res	Type
1	g	54	PRO
1	g	61	VAL
1	g	148	PRO
1	g	169	LYS
1	g	181	GLU
1	g	255	ASP
1	g	276	LEU
1	g	279	ARG
1	g	319	GLY
1	g	328	GLU
1	g	422	GLY
1	g	605	GLY
1	g	684	ALA
1	g	803	GLY
1	g	812	VAL
1	h	61	VAL
1	h	84	ARG
1	h	94	GLN
1	h	148	PRO
1	h	169	LYS
1	h	384	GLN
1	h	422	GLY
1	h	803	GLY
1	i	61	VAL
1	i	276	LEU
1	i	277	GLY
1	i	803	GLY
1	j	54	PRO
1	j	61	VAL
1	j	118	ASN
1	j	139	ALA
1	j	181	GLU
1	j	182	CYS
1	j	201	VAL
1	j	263	VAL
1	j	296	LEU
1	j	311	GLN
1	j	319	GLY
1	j	418	GLU
1	j	605	GLY
1	k	116	LEU
1	k	148	PRO

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Mol	Chain	Res	Type
1	k	182	CYS
1	k	276	LEU
1	l	52	THR
1	l	54	PRO
1	l	101	PRO
1	l	116	LEU
1	l	803	GLY
1	m	118	ASN
1	m	181	GLU
1	m	253	VAL
1	A	118	ASN
1	A	276	LEU
1	A	279	ARG
1	A	502	ALA
1	B	101	PRO
1	B	117	PRO
1	B	118	ASN
1	B	327	SER
1	C	101	PRO
1	D	101	PRO
1	D	135	ASP
1	D	277	GLY
1	D	384	GLN
1	D	684	ALA
1	E	52	THR
1	E	338	GLN
1	E	451	PRO
1	E	605	GLY
1	F	61	VAL
1	F	94	GLN
1	F	135	ASP
1	F	221	LEU
1	F	384	GLN
1	H	135	ASP
1	H	276	LEU
1	H	277	GLY
1	H	327	SER
1	I	296	LEU
1	I	311	GLN
1	I	640	VAL
1	J	26	SER
1	J	54	PRO

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Mol	Chain	Res	Type
1	J	139	ALA
1	J	259	HIS
1	J	294	ASN
1	J	327	SER
1	J	684	ALA
1	K	18	VAL
1	K	26	SER
1	K	116	LEU
1	K	279	ARG
1	K	339	PRO
1	K	769	GLU
1	L	117	PRO
1	M	52	THR
1	M	148	PRO
1	M	279	ARG
1	M	427	LEU
1	M	520	PRO
1	M	812	VAL
1	N	194	GLU
1	N	384	GLN
1	O	26	SER
1	O	61	VAL
1	O	118	ASN
1	O	194	GLU
1	O	427	LEU
1	O	520	PRO
1	P	118	ASN
1	P	221	LEU
1	P	263	VAL
1	P	319	GLY
1	P	520	PRO
1	P	600	ARG
1	P	769	GLU
1	Q	18	VAL
1	Q	26	SER
1	Q	116	LEU
1	Q	148	PRO
1	Q	221	LEU
1	Q	263	VAL
1	Q	355	ASP
1	Q	605	GLY
1	Q	684	ALA

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Mol	Chain	Res	Type
1	R	181	GLU
1	R	259	HIS
1	R	319	GLY
1	R	422	GLY
1	R	427	LEU
1	R	520	PRO
1	R	684	ALA
1	S	26	SER
1	S	52	THR
1	S	116	LEU
1	S	118	ASN
1	S	190	ARG
1	S	212	VAL
1	S	346	GLU
1	S	491	PRO
1	T	118	ASN
1	T	148	PRO
1	T	319	GLY
1	T	427	LEU
1	T	520	PRO
1	T	812	VAL
1	U	148	PRO
1	V	105	LEU
1	V	355	ASP
1	W	135	ASP
1	W	276	LEU
1	W	346	GLU
1	W	520	PRO
1	X	54	PRO
1	X	101	PRO
1	X	117	PRO
1	X	181	GLU
1	X	338	GLN
1	X	384	GLN
1	X	418	GLU
1	Y	116	LEU
1	Y	130	GLU
1	Y	276	LEU
1	Y	491	PRO
1	Y	605	GLY
1	Y	684	ALA
1	Z	139	ALA

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Mol	Chain	Res	Type
1	Z	684	ALA
1	a	135	ASP
1	a	177	ARG
1	a	268	LEU
1	a	491	PRO
1	b	94	GLN
1	b	182	CYS
1	b	201	VAL
1	b	268	LEU
1	b	296	LEU
1	b	355	ASP
1	c	26	SER
1	c	105	LEU
1	c	148	PRO
1	c	202	GLY
1	c	262	ASP
1	c	276	LEU
1	c	384	GLN
1	d	116	LEU
1	d	139	ALA
1	d	259	HIS
1	d	671	ALA
1	e	181	GLU
1	e	339	PRO
1	e	384	GLN
1	e	768	MET
1	e	812	VAL
1	f	117	PRO
1	f	139	ALA
1	f	181	GLU
1	f	276	LEU
1	f	327	SER
1	f	328	GLU
1	f	353	ALA
1	f	422	GLY
1	g	58	TYR
1	g	98	PRO
1	g	131	ASP
1	g	182	CYS
1	g	212	VAL
1	g	491	PRO
1	h	26	SER

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Mol	Chain	Res	Type
1	h	105	LEU
1	h	118	ASN
1	h	139	ALA
1	i	135	ASP
1	i	139	ALA
1	i	181	GLU
1	i	265	GLU
1	j	52	THR
1	j	101	PRO
1	j	127	LEU
1	k	98	PRO
1	k	118	ASN
1	k	139	ALA
1	k	150	THR
1	k	181	GLU
1	k	262	ASP
1	k	684	ALA
1	l	181	GLU
1	l	279	ARG
1	l	346	GLU
1	l	418	GLU
1	l	422	GLY
1	m	61	VAL
1	m	84	ARG
1	m	135	ASP
1	m	182	CYS
1	m	262	ASP
1	m	276	LEU
1	m	312	PRO
1	m	422	GLY
1	m	491	PRO
1	m	671	ALA
1	A	181	GLU
1	A	418	GLU
1	A	491	PRO
1	B	61	VAL
1	B	605	GLY
1	C	26	SER
1	C	133	ASN
1	C	139	ALA
1	C	384	GLN
1	D	374	VAL

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Mol	Chain	Res	Type
1	D	595	SER
1	E	26	SER
1	E	117	PRO
1	F	118	ASN
1	F	418	GLU
1	F	491	PRO
1	G	101	PRO
1	G	117	PRO
1	H	29	GLU
1	H	640	VAL
1	H	684	ALA
1	I	181	GLU
1	I	502	ALA
1	J	339	PRO
1	J	506	LYS
1	J	595	SER
1	K	242	LEU
1	K	319	GLY
1	L	355	ASP
1	L	384	GLN
1	M	26	SER
1	M	105	LEU
1	M	221	LEU
1	M	600	ARG
1	N	118	ASN
1	N	139	ALA
1	N	397	LYS
1	N	605	GLY
1	N	684	ALA
1	O	209	PHE
1	O	338	GLN
1	O	355	ASP
1	O	384	GLN
1	P	18	VAL
1	P	87	ASP
1	P	261	PRO
1	P	339	PRO
1	Q	98	PRO
1	Q	262	ASP
1	R	87	ASP
1	R	116	LEU
1	R	133	ASN

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Mol	Chain	Res	Type
1	R	276	LEU
1	R	463	PRO
1	S	58	TYR
1	S	159	VAL
1	S	279	ARG
1	S	427	LEU
1	S	684	ALA
1	S	761	ARG
1	T	127	LEU
1	T	253	VAL
1	T	418	GLU
1	T	491	PRO
1	T	563	SER
1	U	94	GLN
1	U	101	PRO
1	U	139	ALA
1	U	346	GLU
1	U	427	LEU
1	U	684	ALA
1	V	328	GLU
1	V	671	ALA
1	V	748	ALA
1	W	98	PRO
1	W	194	GLU
1	W	202	GLY
1	W	279	ARG
1	X	127	LEU
1	X	684	ALA
1	Y	139	ALA
1	Y	191	VAL
1	Y	202	GLY
1	Y	221	LEU
1	Z	101	PRO
1	Z	135	ASP
1	Z	328	GLU
1	a	101	PRO
1	a	311	GLN
1	a	355	ASP
1	a	384	GLN
1	b	276	LEU
1	b	418	GLU
1	c	422	GLY

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Mol	Chain	Res	Type
1	c	563	SER
1	c	595	SER
1	c	671	ALA
1	d	26	SER
1	d	117	PRO
1	d	242	LEU
1	d	263	VAL
1	e	26	SER
1	e	58	TYR
1	e	116	LEU
1	e	139	ALA
1	e	276	LEU
1	f	26	SER
1	f	52	THR
1	f	101	PRO
1	f	684	ALA
1	g	101	PRO
1	g	118	ASN
1	g	384	GLN
1	g	427	LEU
1	g	677	ALA
1	h	163	ILE
1	h	263	VAL
1	h	276	LEU
1	i	26	SER
1	i	101	PRO
1	i	193	GLY
1	i	255	ASP
1	i	346	GLU
1	i	422	GLY
1	i	812	VAL
1	j	262	ASP
1	j	276	LEU
1	j	684	ALA
1	k	61	VAL
1	k	101	PRO
1	k	279	ARG
1	k	384	GLN
1	k	418	GLU
1	k	491	PRO
1	l	94	GLN
1	l	98	PRO

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Mol	Chain	Res	Type
1	l	276	LEU
1	l	491	PRO
1	l	812	VAL
1	m	101	PRO
1	m	127	LEU
1	B	135	ASP
1	C	18	VAL
1	C	111	PRO
1	C	117	PRO
1	C	135	ASP
1	C	427	LEU
1	C	491	PRO
1	C	671	ALA
1	D	26	SER
1	D	127	LEU
1	D	139	ALA
1	D	242	LEU
1	D	338	GLN
1	D	418	GLU
1	D	803	GLY
1	E	61	VAL
1	E	94	GLN
1	E	98	PRO
1	E	135	ASP
1	E	418	GLU
1	F	374	VAL
1	G	520	PRO
1	G	684	ALA
1	H	26	SER
1	H	338	GLN
1	I	94	GLN
1	I	491	PRO
1	I	595	SER
1	I	684	ALA
1	K	277	GLY
1	K	292	GLY
1	K	294	ASN
1	K	520	PRO
1	L	60	ILE
1	L	94	GLN
1	L	116	LEU
1	L	118	ASN

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Mol	Chain	Res	Type
1	L	135	ASP
1	L	238	LEU
1	L	339	PRO
1	M	18	VAL
1	M	101	PRO
1	N	279	ARG
1	N	346	GLU
1	N	600	ARG
1	O	101	PRO
1	O	812	VAL
1	P	190	ARG
1	P	212	VAL
1	P	262	ASP
1	Q	87	ASP
1	Q	101	PRO
1	Q	190	ARG
1	Q	212	VAL
1	Q	276	LEU
1	Q	311	GLN
1	R	263	VAL
1	R	311	GLN
1	S	94	GLN
1	S	150	THR
1	S	769	GLU
1	T	181	GLU
1	T	212	VAL
1	T	279	ARG
1	T	346	GLU
1	U	276	LEU
1	U	573	LYS
1	V	139	ALA
1	V	296	LEU
1	W	101	PRO
1	W	111	PRO
1	W	117	PRO
1	W	139	ALA
1	W	181	GLU
1	W	212	VAL
1	W	491	PRO
1	X	55	PRO
1	X	319	GLY
1	X	600	ARG

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Mol	Chain	Res	Type
1	Y	94	GLN
1	Y	181	GLU
1	Y	418	GLU
1	Z	491	PRO
1	Z	534	HIS
1	a	117	PRO
1	a	684	ALA
1	b	457	VAL
1	b	520	PRO
1	b	563	SER
1	c	54	PRO
1	c	263	VAL
1	c	362	PRO
1	d	100	TYR
1	d	803	GLY
1	e	135	ASP
1	f	491	PRO
1	g	135	ASP
1	g	520	PRO
1	h	101	PRO
1	h	127	LEU
1	h	427	LEU
1	h	491	PRO
1	h	768	MET
1	i	99	LEU
1	i	279	ARG
1	i	311	GLN
1	i	748	ALA
1	j	100	TYR
1	j	355	ASP
1	j	427	LEU
1	j	491	PRO
1	k	100	TYR
1	k	201	VAL
1	k	209	PHE
1	k	427	LEU
1	l	18	VAL
1	l	29	GLU
1	l	100	TYR
1	l	298	GLN
1	l	427	LEU
1	l	520	PRO

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Mol	Chain	Res	Type
1	l	534	HIS
1	m	261	PRO
1	A	61	VAL
1	A	422	GLY
1	D	111	PRO
1	E	139	ALA
1	E	277	GLY
1	F	277	GLY
1	G	118	ASN
1	G	491	PRO
1	H	94	GLN
1	H	160	VAL
1	H	346	GLU
1	I	339	PRO
1	I	427	LEU
1	J	117	PRO
1	J	491	PRO
1	J	520	PRO
1	K	65	VAL
1	K	263	VAL
1	K	278	PRO
1	L	65	VAL
1	L	194	GLU
1	N	18	VAL
1	N	65	VAL
1	O	29	GLU
1	O	160	VAL
1	O	190	ARG
1	O	311	GLN
1	P	26	SER
1	P	812	VAL
1	Q	339	PRO
1	R	100	TYR
1	S	101	PRO
1	T	26	SER
1	T	29	GLU
1	T	684	ALA
1	U	520	PRO
1	V	491	PRO
1	W	118	ASN
1	W	384	GLN
1	W	605	GLY

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Mol	Chain	Res	Type
1	W	637	SER
1	Y	320	ILE
1	Z	294	ASN
1	a	263	VAL
1	a	812	VAL
1	b	61	VAL
1	b	263	VAL
1	c	491	PRO
1	d	319	GLY
1	d	491	PRO
1	f	768	MET
1	g	94	GLN
1	g	139	ALA
1	g	201	VAL
1	h	279	ARG
1	h	520	PRO
1	i	191	VAL
1	j	94	GLN
1	j	159	VAL
1	k	18	VAL
1	l	209	PHE
1	l	506	LYS
1	m	520	PRO
1	C	812	VAL
1	E	781	VAL
1	F	117	PRO
1	G	338	GLN
1	G	605	GLY
1	G	640	VAL
1	H	491	PRO
1	I	520	PRO
1	J	18	VAL
1	L	18	VAL
1	L	101	PRO
1	M	114	VAL
1	M	117	PRO
1	M	278	PRO
1	N	277	GLY
1	N	311	GLN
1	O	263	VAL
1	Q	100	TYR
1	Q	812	VAL

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Mol	Chain	Res	Type
1	R	117	PRO
1	S	18	VAL
1	S	117	PRO
1	U	28	VAL
1	U	263	VAL
1	V	201	VAL
1	X	159	VAL
1	X	520	PRO
1	Y	338	GLN
1	Z	55	PRO
1	Z	451	PRO
1	b	319	GLY
1	c	101	PRO
1	e	65	VAL
1	e	101	PRO
1	e	263	VAL
1	e	520	PRO
1	f	212	VAL
1	f	263	VAL
1	g	65	VAL
1	g	117	PRO
1	h	605	GLY
1	i	263	VAL
1	i	491	PRO
1	k	117	PRO
1	k	319	GLY
1	l	263	VAL
1	l	277	GLY
1	m	160	VAL
1	m	263	VAL
1	m	278	PRO
1	D	491	PRO
1	E	320	ILE
1	E	362	PRO
1	F	803	GLY
1	G	98	PRO
1	G	160	VAL
1	K	117	PRO
1	K	640	VAL
1	M	212	VAL
1	M	263	VAL
1	M	451	PRO

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Mol	Chain	Res	Type
1	O	18	VAL
1	P	451	PRO
1	R	65	VAL
1	S	311	GLN
1	T	77	ILE
1	T	191	VAL
1	T	263	VAL
1	X	18	VAL
1	X	202	GLY
1	Y	77	ILE
1	Y	277	GLY
1	b	491	PRO
1	b	812	VAL
1	c	261	PRO
1	c	278	PRO
1	d	159	VAL
1	d	201	VAL
1	f	18	VAL
1	f	114	VAL
1	f	339	PRO
1	g	277	GLY
1	g	278	PRO
1	g	338	GLN
1	h	96	PRO
1	h	98	PRO
1	h	338	GLN
1	i	111	PRO
1	i	212	VAL
1	i	339	PRO
1	k	263	VAL
1	m	277	GLY
1	B	18	VAL
1	B	48	VAL
1	B	159	VAL
1	B	263	VAL
1	B	278	PRO
1	C	803	GLY
1	E	812	VAL
1	F	18	VAL
1	F	111	PRO
1	G	374	VAL
1	H	292	GLY

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Mol	Chain	Res	Type
1	N	812	VAL
1	O	100	TYR
1	P	101	PRO
1	Q	261	PRO
1	R	605	GLY
1	S	263	VAL
1	S	277	GLY
1	S	520	PRO
1	V	98	PRO
1	V	212	VAL
1	X	451	PRO
1	Y	18	VAL
1	Y	55	PRO
1	Z	18	VAL
1	Z	117	PRO
1	Z	246	GLY
1	a	18	VAL
1	a	98	PRO
1	a	520	PRO
1	c	339	PRO
1	d	277	GLY
1	e	100	TYR
1	g	77	ILE
1	h	191	VAL
1	j	339	PRO
1	j	520	PRO
1	j	812	VAL
1	k	277	GLY
1	k	339	PRO
1	l	65	VAL
1	m	73	VAL
1	m	319	GLY
1	m	605	GLY
1	m	812	VAL
1	A	101	PRO
1	A	160	VAL
1	D	18	VAL
1	D	159	VAL
1	D	191	VAL
1	E	212	VAL
1	E	520	PRO
1	F	101	PRO

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Mol	Chain	Res	Type
1	G	65	VAL
1	H	202	GLY
1	I	96	PRO
1	J	263	VAL
1	K	605	GLY
1	N	463	PRO
1	O	605	GLY
1	Q	463	PRO
1	S	339	PRO
1	T	117	PRO
1	U	98	PRO
1	V	159	VAL
1	V	451	PRO
1	V	520	PRO
1	W	263	VAL
1	W	278	PRO
1	Y	98	PRO
1	Y	101	PRO
1	a	100	TYR
1	b	117	PRO
1	c	605	GLY
1	h	65	VAL
1	h	159	VAL
1	i	18	VAL
1	i	457	VAL
1	j	261	PRO
1	k	46	ALA
1	k	65	VAL
1	k	261	PRO
1	C	163	ILE
1	H	60	ILE
1	H	65	VAL
1	J	61	VAL
1	N	504	ARG
1	O	65	VAL
1	V	812	VAL
1	Y	263	VAL
1	d	46	ALA
1	e	18	VAL
1	e	201	VAL
1	f	159	VAL
1	h	100	TYR

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Mol	Chain	Res	Type
1	h	261	PRO
1	i	100	TYR

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	663/727 (91%)	527 (80%)	136 (20%)	2	10
1	B	663/727 (91%)	545 (82%)	118 (18%)	2	16
1	C	663/727 (91%)	536 (81%)	127 (19%)	2	12
1	D	663/727 (91%)	543 (82%)	120 (18%)	2	15
1	E	663/727 (91%)	550 (83%)	113 (17%)	3	18
1	F	663/727 (91%)	543 (82%)	120 (18%)	2	15
1	G	663/727 (91%)	533 (80%)	130 (20%)	2	11
1	H	663/727 (91%)	533 (80%)	130 (20%)	2	11
1	I	663/727 (91%)	537 (81%)	126 (19%)	2	13
1	J	663/727 (91%)	532 (80%)	131 (20%)	2	11
1	K	663/727 (91%)	519 (78%)	144 (22%)	1	9
1	L	663/727 (91%)	536 (81%)	127 (19%)	2	12
1	M	663/727 (91%)	537 (81%)	126 (19%)	2	13
1	N	663/727 (91%)	535 (81%)	128 (19%)	2	12
1	O	663/727 (91%)	528 (80%)	135 (20%)	2	10
1	P	663/727 (91%)	527 (80%)	136 (20%)	2	10
1	Q	663/727 (91%)	528 (80%)	135 (20%)	2	10
1	R	663/727 (91%)	521 (79%)	142 (21%)	1	9
1	S	663/727 (91%)	539 (81%)	124 (19%)	2	13
1	T	663/727 (91%)	540 (81%)	123 (19%)	2	13
1	U	663/727 (91%)	532 (80%)	131 (20%)	2	11
1	V	663/727 (91%)	530 (80%)	133 (20%)	2	11
1	W	663/727 (91%)	545 (82%)	118 (18%)	2	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	X	663/727 (91%)	534 (80%)	129 (20%)	2	12
1	Y	663/727 (91%)	547 (82%)	116 (18%)	3	17
1	Z	663/727 (91%)	535 (81%)	128 (19%)	2	12
1	a	663/727 (91%)	538 (81%)	125 (19%)	2	13
1	b	663/727 (91%)	534 (80%)	129 (20%)	2	12
1	c	663/727 (91%)	531 (80%)	132 (20%)	2	11
1	d	663/727 (91%)	542 (82%)	121 (18%)	2	14
1	e	663/727 (91%)	534 (80%)	129 (20%)	2	12
1	f	663/727 (91%)	536 (81%)	127 (19%)	2	12
1	g	663/727 (91%)	533 (80%)	130 (20%)	2	11
1	h	663/727 (91%)	535 (81%)	128 (19%)	2	12
1	i	663/727 (91%)	533 (80%)	130 (20%)	2	11
1	j	663/727 (91%)	540 (81%)	123 (19%)	2	13
1	k	663/727 (91%)	531 (80%)	132 (20%)	2	11
1	l	663/727 (91%)	541 (82%)	122 (18%)	2	14
1	m	663/727 (91%)	541 (82%)	122 (18%)	2	14
All	All	25857/28353 (91%)	20881 (81%)	4976 (19%)	2	12

All (4976) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	3	THR
1	A	18	VAL
1	A	33	LYS
1	A	35	TYR
1	A	36	ILE
1	A	38	GLN
1	A	41	GLU
1	A	42	ARG
1	A	50	MET
1	A	52	THR
1	A	60	ILE
1	A	61	VAL
1	A	63	ASN
1	A	65	VAL

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Mol	Chain	Res	Type
1	A	68	ASP
1	A	70	GLN
1	A	74	LEU
1	A	75	PHE
1	A	83	LEU
1	A	84	ARG
1	A	95	ASP
1	A	104	VAL
1	A	105	LEU
1	A	110	THR
1	A	115	VAL
1	A	119	THR
1	A	127	LEU
1	A	131	ASP
1	A	132	LYS
1	A	133	ASN
1	A	135	ASP
1	A	137	VAL
1	A	144	LEU
1	A	145	PHE
1	A	151	TYR
1	A	152	ILE
1	A	160	VAL
1	A	161	GLU
1	A	162	ILE
1	A	163	ILE
1	A	169	LYS
1	A	174	LEU
1	A	175	ARG
1	A	177	ARG
1	A	183	PHE
1	A	191	VAL
1	A	196	TRP
1	A	197	LEU
1	A	199	ARG
1	A	205	LEU
1	A	213	LEU
1	A	222	THR
1	A	230	ARG
1	A	236	ARG
1	A	238	LEU
1	A	242	LEU

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Mol	Chain	Res	Type
1	A	249	TRP
1	A	250	LEU
1	A	253	VAL
1	A	254	GLN
1	A	257	GLU
1	A	266	GLU
1	A	267	VAL
1	A	268	LEU
1	A	271	VAL
1	A	274	THR
1	A	276	LEU
1	A	286	ASP
1	A	294	ASN
1	A	295	GLN
1	A	296	LEU
1	A	299	LYS
1	A	301	VAL
1	A	308	PHE
1	A	310	LEU
1	A	320	ILE
1	A	322	ASP
1	A	332	LEU
1	A	334	LEU
1	A	335	LYS
1	A	337	LEU
1	A	341	GLU
1	A	342	GLU
1	A	356	CYS
1	A	359	ILE
1	A	363	LEU
1	A	373	VAL
1	A	383	ASP
1	A	384	GLN
1	A	385	ASN
1	A	402	ILE
1	A	407	MET
1	A	417	LYS
1	A	474	ARG
1	A	479	ARG
1	A	486	LEU
1	A	487	VAL
1	A	490	ASP

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Mol	Chain	Res	Type
1	A	496	THR
1	A	501	SER
1	A	512	ARG
1	A	516	LEU
1	A	517	LEU
1	A	518	LEU
1	A	523	PHE
1	A	524	THR
1	A	528	THR
1	A	533	ASP
1	A	536	ARG
1	A	549	LEU
1	A	557	GLU
1	A	580	ARG
1	A	587	THR
1	A	595	SER
1	A	606	PHE
1	A	621	LYS
1	A	625	GLN
1	A	648	GLN
1	A	651	ARG
1	A	654	LEU
1	A	666	THR
1	A	683	GLU
1	A	706	LEU
1	A	721	ASN
1	A	747	LYS
1	A	755	THR
1	A	761	ARG
1	A	766	ARG
1	A	770	LEU
1	A	779	LEU
1	A	793	LYS
1	A	794	LYS
1	A	802	LEU
1	A	806	THR
1	A	808	ARG
1	B	1	MET
1	B	3	THR
1	B	18	VAL
1	B	23	SER
1	B	33	LYS

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Mol	Chain	Res	Type
1	B	36	ILE
1	B	38	GLN
1	B	41	GLU
1	B	50	MET
1	B	60	ILE
1	B	70	GLN
1	B	74	LEU
1	B	83	LEU
1	B	84	ARG
1	B	110	THR
1	B	114	VAL
1	B	115	VAL
1	B	119	THR
1	B	127	LEU
1	B	131	ASP
1	B	132	LYS
1	B	135	ASP
1	B	137	VAL
1	B	141	ASP
1	B	144	LEU
1	B	152	ILE
1	B	155	LYS
1	B	160	VAL
1	B	161	GLU
1	B	163	ILE
1	B	177	ARG
1	B	182	CYS
1	B	183	PHE
1	B	197	LEU
1	B	199	ARG
1	B	205	LEU
1	B	213	LEU
1	B	222	THR
1	B	230	ARG
1	B	234	ASN
1	B	236	ARG
1	B	238	LEU
1	B	249	TRP
1	B	250	LEU
1	B	253	VAL
1	B	254	GLN
1	B	257	GLU

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Mol	Chain	Res	Type
1	B	259	HIS
1	B	266	GLU
1	B	268	LEU
1	B	271	VAL
1	B	276	LEU
1	B	286	ASP
1	B	296	LEU
1	B	301	VAL
1	B	302	VAL
1	B	308	PHE
1	B	322	ASP
1	B	328	GLU
1	B	335	LYS
1	B	341	GLU
1	B	342	GLU
1	B	345	SER
1	B	356	CYS
1	B	358	LEU
1	B	359	ILE
1	B	363	LEU
1	B	370	LYS
1	B	373	VAL
1	B	380	ILE
1	B	383	ASP
1	B	384	GLN
1	B	385	ASN
1	B	407	MET
1	B	420	PRO
1	B	474	ARG
1	B	479	ARG
1	B	486	LEU
1	B	487	VAL
1	B	496	THR
1	B	497	VAL
1	B	501	SER
1	B	516	LEU
1	B	517	LEU
1	B	518	LEU
1	B	522	PHE
1	B	523	PHE
1	B	528	THR
1	B	533	ASP

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Mol	Chain	Res	Type
1	B	536	ARG
1	B	549	LEU
1	B	580	ARG
1	B	585	SER
1	B	587	THR
1	B	599	ILE
1	B	601	MET
1	B	621	LYS
1	B	633	LEU
1	B	648	GLN
1	B	651	ARG
1	B	654	LEU
1	B	666	THR
1	B	683	GLU
1	B	698	GLU
1	B	706	LEU
1	B	721	ASN
1	B	734	ARG
1	B	742	LEU
1	B	747	LYS
1	B	755	THR
1	B	766	ARG
1	B	770	LEU
1	B	778	GLU
1	B	779	LEU
1	B	782	SER
1	B	793	LYS
1	B	794	LYS
1	B	810	LEU
1	C	1	MET
1	C	3	THR
1	C	18	VAL
1	C	23	SER
1	C	35	TYR
1	C	36	ILE
1	C	38	GLN
1	C	50	MET
1	C	56	ARG
1	C	57	HIS
1	C	60	ILE
1	C	61	VAL
1	C	63	ASN

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Mol	Chain	Res	Type
1	C	65	VAL
1	C	70	GLN
1	C	74	LEU
1	C	75	PHE
1	C	83	LEU
1	C	84	ARG
1	C	90	ILE
1	C	110	THR
1	C	114	VAL
1	C	119	THR
1	C	127	LEU
1	C	131	ASP
1	C	132	LYS
1	C	135	ASP
1	C	137	VAL
1	C	144	LEU
1	C	151	TYR
1	C	160	VAL
1	C	161	GLU
1	C	167	VAL
1	C	169	LYS
1	C	175	ARG
1	C	177	ARG
1	C	183	PHE
1	C	191	VAL
1	C	192	THR
1	C	196	TRP
1	C	197	LEU
1	C	199	ARG
1	C	201	VAL
1	C	205	LEU
1	C	213	LEU
1	C	221	LEU
1	C	222	THR
1	C	225	THR
1	C	230	ARG
1	C	234	ASN
1	C	238	LEU
1	C	242	LEU
1	C	243	HIS
1	C	249	TRP
1	C	250	LEU

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Mol	Chain	Res	Type
1	C	253	VAL
1	C	254	GLN
1	C	257	GLU
1	C	259	HIS
1	C	266	GLU
1	C	268	LEU
1	C	271	VAL
1	C	276	LEU
1	C	286	ASP
1	C	296	LEU
1	C	302	VAL
1	C	308	PHE
1	C	320	ILE
1	C	322	ASP
1	C	328	GLU
1	C	335	LYS
1	C	337	LEU
1	C	341	GLU
1	C	342	GLU
1	C	345	SER
1	C	358	LEU
1	C	359	ILE
1	C	363	LEU
1	C	373	VAL
1	C	383	ASP
1	C	384	GLN
1	C	385	ASN
1	C	407	MET
1	C	417	LYS
1	C	418	GLU
1	C	474	ARG
1	C	479	ARG
1	C	486	LEU
1	C	487	VAL
1	C	490	ASP
1	C	496	THR
1	C	501	SER
1	C	516	LEU
1	C	517	LEU
1	C	518	LEU
1	C	522	PHE
1	C	523	PHE

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Mol	Chain	Res	Type
1	C	528	THR
1	C	533	ASP
1	C	536	ARG
1	C	539	LEU
1	C	549	LEU
1	C	580	ARG
1	C	585	SER
1	C	587	THR
1	C	621	LYS
1	C	633	LEU
1	C	666	THR
1	C	668	SER
1	C	683	GLU
1	C	688	LEU
1	C	690	ARG
1	C	692	LYS
1	C	698	GLU
1	C	706	LEU
1	C	721	ASN
1	C	742	LEU
1	C	755	THR
1	C	770	LEU
1	C	771	ILE
1	C	778	GLU
1	C	779	LEU
1	C	787	LEU
1	C	793	LYS
1	C	794	LYS
1	C	806	THR
1	C	808	ARG
1	D	1	MET
1	D	3	THR
1	D	18	VAL
1	D	27	ARG
1	D	35	TYR
1	D	36	ILE
1	D	38	GLN
1	D	41	GLU
1	D	50	MET
1	D	57	HIS
1	D	60	ILE
1	D	65	VAL

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Mol	Chain	Res	Type
1	D	70	GLN
1	D	75	PHE
1	D	78	THR
1	D	83	LEU
1	D	90	ILE
1	D	106	GLU
1	D	110	THR
1	D	118	ASN
1	D	119	THR
1	D	127	LEU
1	D	131	ASP
1	D	132	LYS
1	D	135	ASP
1	D	138	MET
1	D	141	ASP
1	D	144	LEU
1	D	145	PHE
1	D	151	TYR
1	D	152	ILE
1	D	160	VAL
1	D	161	GLU
1	D	166	THR
1	D	177	ARG
1	D	183	PHE
1	D	191	VAL
1	D	197	LEU
1	D	204	TYR
1	D	205	LEU
1	D	209	PHE
1	D	213	LEU
1	D	221	LEU
1	D	222	THR
1	D	225	THR
1	D	230	ARG
1	D	236	ARG
1	D	238	LEU
1	D	242	LEU
1	D	243	HIS
1	D	249	TRP
1	D	250	LEU
1	D	253	VAL
1	D	257	GLU

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Mol	Chain	Res	Type
1	D	259	HIS
1	D	266	GLU
1	D	268	LEU
1	D	271	VAL
1	D	276	LEU
1	D	281	TYR
1	D	284	ILE
1	D	286	ASP
1	D	296	LEU
1	D	308	PHE
1	D	310	LEU
1	D	321	GLN
1	D	322	ASP
1	D	328	GLU
1	D	335	LYS
1	D	341	GLU
1	D	342	GLU
1	D	358	LEU
1	D	359	ILE
1	D	363	LEU
1	D	373	VAL
1	D	380	ILE
1	D	383	ASP
1	D	384	GLN
1	D	385	ASN
1	D	388	ILE
1	D	407	MET
1	D	417	LYS
1	D	452	ARG
1	D	474	ARG
1	D	477	ARG
1	D	479	ARG
1	D	486	LEU
1	D	487	VAL
1	D	490	ASP
1	D	496	THR
1	D	516	LEU
1	D	517	LEU
1	D	518	LEU
1	D	522	PHE
1	D	523	PHE
1	D	536	ARG

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Mol	Chain	Res	Type
1	D	549	LEU
1	D	580	ARG
1	D	585	SER
1	D	587	THR
1	D	595	SER
1	D	621	LYS
1	D	625	GLN
1	D	642	SER
1	D	648	GLN
1	D	654	LEU
1	D	662	ILE
1	D	666	THR
1	D	668	SER
1	D	683	GLU
1	D	692	LYS
1	D	734	ARG
1	D	742	LEU
1	D	755	THR
1	D	770	LEU
1	D	778	GLU
1	D	779	LEU
1	D	793	LYS
1	D	802	LEU
1	D	806	THR
1	E	1	MET
1	E	3	THR
1	E	8	ILE
1	E	18	VAL
1	E	35	TYR
1	E	36	ILE
1	E	38	GLN
1	E	50	MET
1	E	52	THR
1	E	57	HIS
1	E	60	ILE
1	E	70	GLN
1	E	74	LEU
1	E	75	PHE
1	E	78	THR
1	E	83	LEU
1	E	90	ILE
1	E	95	ASP

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Mol	Chain	Res	Type
1	E	118	ASN
1	E	119	THR
1	E	127	LEU
1	E	130	GLU
1	E	131	ASP
1	E	133	ASN
1	E	135	ASP
1	E	136	LYS
1	E	138	MET
1	E	144	LEU
1	E	145	PHE
1	E	152	ILE
1	E	155	LYS
1	E	160	VAL
1	E	161	GLU
1	E	167	VAL
1	E	169	LYS
1	E	175	ARG
1	E	177	ARG
1	E	196	TRP
1	E	197	LEU
1	E	199	ARG
1	E	204	TYR
1	E	205	LEU
1	E	213	LEU
1	E	221	LEU
1	E	222	THR
1	E	225	THR
1	E	230	ARG
1	E	238	LEU
1	E	242	LEU
1	E	249	TRP
1	E	252	THR
1	E	253	VAL
1	E	257	GLU
1	E	259	HIS
1	E	266	GLU
1	E	268	LEU
1	E	271	VAL
1	E	276	LEU
1	E	281	TYR
1	E	284	ILE

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Mol	Chain	Res	Type
1	E	296	LEU
1	E	308	PHE
1	E	320	ILE
1	E	322	ASP
1	E	328	GLU
1	E	335	LYS
1	E	341	GLU
1	E	342	GLU
1	E	358	LEU
1	E	359	ILE
1	E	363	LEU
1	E	373	VAL
1	E	380	ILE
1	E	383	ASP
1	E	384	GLN
1	E	385	ASN
1	E	407	MET
1	E	417	LYS
1	E	452	ARG
1	E	474	ARG
1	E	479	ARG
1	E	486	LEU
1	E	487	VAL
1	E	496	THR
1	E	501	SER
1	E	516	LEU
1	E	517	LEU
1	E	518	LEU
1	E	522	PHE
1	E	523	PHE
1	E	536	ARG
1	E	539	LEU
1	E	549	LEU
1	E	580	ARG
1	E	587	THR
1	E	595	SER
1	E	621	LYS
1	E	648	GLN
1	E	654	LEU
1	E	666	THR
1	E	668	SER
1	E	683	GLU

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Mol	Chain	Res	Type
1	E	690	ARG
1	E	692	LYS
1	E	706	LEU
1	E	755	THR
1	E	770	LEU
1	E	778	GLU
1	E	793	LYS
1	E	794	LYS
1	E	802	LEU
1	E	806	THR
1	E	810	LEU
1	F	1	MET
1	F	3	THR
1	F	18	VAL
1	F	23	SER
1	F	35	TYR
1	F	36	ILE
1	F	38	GLN
1	F	41	GLU
1	F	50	MET
1	F	52	THR
1	F	60	ILE
1	F	70	GLN
1	F	73	VAL
1	F	74	LEU
1	F	75	PHE
1	F	83	LEU
1	F	90	ILE
1	F	95	ASP
1	F	104	VAL
1	F	110	THR
1	F	119	THR
1	F	127	LEU
1	F	131	ASP
1	F	132	LYS
1	F	144	LEU
1	F	155	LYS
1	F	158	GLU
1	F	160	VAL
1	F	161	GLU
1	F	163	ILE
1	F	167	VAL

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Mol	Chain	Res	Type
1	F	169	LYS
1	F	175	ARG
1	F	177	ARG
1	F	183	PHE
1	F	197	LEU
1	F	199	ARG
1	F	200	SER
1	F	205	LEU
1	F	213	LEU
1	F	221	LEU
1	F	222	THR
1	F	225	THR
1	F	230	ARG
1	F	234	ASN
1	F	236	ARG
1	F	238	LEU
1	F	242	LEU
1	F	249	TRP
1	F	250	LEU
1	F	257	GLU
1	F	259	HIS
1	F	266	GLU
1	F	268	LEU
1	F	271	VAL
1	F	276	LEU
1	F	281	TYR
1	F	284	ILE
1	F	286	ASP
1	F	294	ASN
1	F	295	GLN
1	F	296	LEU
1	F	301	VAL
1	F	302	VAL
1	F	308	PHE
1	F	320	ILE
1	F	322	ASP
1	F	332	LEU
1	F	335	LYS
1	F	340	LEU
1	F	341	GLU
1	F	342	GLU
1	F	358	LEU

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Mol	Chain	Res	Type
1	F	359	ILE
1	F	363	LEU
1	F	383	ASP
1	F	384	GLN
1	F	385	ASN
1	F	402	ILE
1	F	407	MET
1	F	417	LYS
1	F	418	GLU
1	F	474	ARG
1	F	479	ARG
1	F	486	LEU
1	F	487	VAL
1	F	496	THR
1	F	501	SER
1	F	516	LEU
1	F	517	LEU
1	F	518	LEU
1	F	524	THR
1	F	527	ILE
1	F	528	THR
1	F	533	ASP
1	F	536	ARG
1	F	539	LEU
1	F	549	LEU
1	F	580	ARG
1	F	587	THR
1	F	595	SER
1	F	601	MET
1	F	621	LYS
1	F	648	GLN
1	F	654	LEU
1	F	666	THR
1	F	668	SER
1	F	683	GLU
1	F	690	ARG
1	F	692	LYS
1	F	755	THR
1	F	766	ARG
1	F	770	LEU
1	F	771	ILE
1	F	778	GLU

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Mol	Chain	Res	Type
1	F	779	LEU
1	F	790	VAL
1	F	793	LYS
1	F	794	LYS
1	F	806	THR
1	G	1	MET
1	G	3	THR
1	G	18	VAL
1	G	23	SER
1	G	35	TYR
1	G	36	ILE
1	G	38	GLN
1	G	50	MET
1	G	60	ILE
1	G	65	VAL
1	G	70	GLN
1	G	74	LEU
1	G	75	PHE
1	G	83	LEU
1	G	84	ARG
1	G	101	PRO
1	G	106	GLU
1	G	108	ASP
1	G	114	VAL
1	G	115	VAL
1	G	119	THR
1	G	127	LEU
1	G	131	ASP
1	G	132	LYS
1	G	135	ASP
1	G	138	MET
1	G	144	LEU
1	G	145	PHE
1	G	152	ILE
1	G	160	VAL
1	G	161	GLU
1	G	163	ILE
1	G	175	ARG
1	G	177	ARG
1	G	183	PHE
1	G	191	VAL
1	G	196	TRP

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Mol	Chain	Res	Type
1	G	197	LEU
1	G	199	ARG
1	G	200	SER
1	G	205	LEU
1	G	208	VAL
1	G	209	PHE
1	G	213	LEU
1	G	221	LEU
1	G	222	THR
1	G	227	LEU
1	G	230	ARG
1	G	236	ARG
1	G	238	LEU
1	G	242	LEU
1	G	249	TRP
1	G	250	LEU
1	G	253	VAL
1	G	257	GLU
1	G	259	HIS
1	G	266	GLU
1	G	268	LEU
1	G	271	VAL
1	G	276	LEU
1	G	281	TYR
1	G	284	ILE
1	G	296	LEU
1	G	301	VAL
1	G	306	LYS
1	G	308	PHE
1	G	310	LEU
1	G	318	ARG
1	G	320	ILE
1	G	321	GLN
1	G	322	ASP
1	G	335	LYS
1	G	341	GLU
1	G	342	GLU
1	G	358	LEU
1	G	359	ILE
1	G	360	ARG
1	G	363	LEU
1	G	373	VAL

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Mol	Chain	Res	Type
1	G	383	ASP
1	G	384	GLN
1	G	385	ASN
1	G	395	THR
1	G	402	ILE
1	G	407	MET
1	G	418	GLU
1	G	452	ARG
1	G	474	ARG
1	G	479	ARG
1	G	486	LEU
1	G	487	VAL
1	G	496	THR
1	G	501	SER
1	G	516	LEU
1	G	517	LEU
1	G	518	LEU
1	G	522	PHE
1	G	523	PHE
1	G	524	THR
1	G	527	ILE
1	G	528	THR
1	G	533	ASP
1	G	536	ARG
1	G	549	LEU
1	G	580	ARG
1	G	587	THR
1	G	601	MET
1	G	621	LYS
1	G	627	VAL
1	G	648	GLN
1	G	654	LEU
1	G	666	THR
1	G	668	SER
1	G	683	GLU
1	G	690	ARG
1	G	692	LYS
1	G	698	GLU
1	G	713	SER
1	G	721	ASN
1	G	734	ARG
1	G	742	LEU

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Mol	Chain	Res	Type
1	G	755	THR
1	G	756	GLU
1	G	764	LYS
1	G	766	ARG
1	G	770	LEU
1	G	790	VAL
1	G	793	LYS
1	G	794	LYS
1	G	802	LEU
1	H	1	MET
1	H	3	THR
1	H	18	VAL
1	H	36	ILE
1	H	38	GLN
1	H	50	MET
1	H	52	THR
1	H	57	HIS
1	H	60	ILE
1	H	61	VAL
1	H	70	GLN
1	H	74	LEU
1	H	75	PHE
1	H	83	LEU
1	H	84	ARG
1	H	104	VAL
1	H	106	GLU
1	H	110	THR
1	H	119	THR
1	H	127	LEU
1	H	131	ASP
1	H	132	LYS
1	H	133	ASN
1	H	135	ASP
1	H	137	VAL
1	H	144	LEU
1	H	145	PHE
1	H	151	TYR
1	H	152	ILE
1	H	160	VAL
1	H	161	GLU
1	H	163	ILE
1	H	166	THR

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Mol	Chain	Res	Type
1	H	167	VAL
1	H	175	ARG
1	H	177	ARG
1	H	183	PHE
1	H	191	VAL
1	H	192	THR
1	H	196	TRP
1	H	197	LEU
1	H	199	ARG
1	H	205	LEU
1	H	213	LEU
1	H	221	LEU
1	H	222	THR
1	H	225	THR
1	H	230	ARG
1	H	237	ASP
1	H	238	LEU
1	H	241	VAL
1	H	242	LEU
1	H	249	TRP
1	H	250	LEU
1	H	253	VAL
1	H	257	GLU
1	H	266	GLU
1	H	268	LEU
1	H	271	VAL
1	H	276	LEU
1	H	281	TYR
1	H	284	ILE
1	H	286	ASP
1	H	296	LEU
1	H	303	LYS
1	H	305	GLU
1	H	308	PHE
1	H	310	LEU
1	H	320	ILE
1	H	322	ASP
1	H	335	LYS
1	H	341	GLU
1	H	358	LEU
1	H	359	ILE
1	H	360	ARG

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Mol	Chain	Res	Type
1	H	363	LEU
1	H	373	VAL
1	H	380	ILE
1	H	383	ASP
1	H	384	GLN
1	H	385	ASN
1	H	395	THR
1	H	407	MET
1	H	417	LYS
1	H	418	GLU
1	H	421	SER
1	H	424	GLU
1	H	474	ARG
1	H	479	ARG
1	H	484	PRO
1	H	486	LEU
1	H	487	VAL
1	H	490	ASP
1	H	496	THR
1	H	501	SER
1	H	516	LEU
1	H	517	LEU
1	H	518	LEU
1	H	522	PHE
1	H	523	PHE
1	H	527	ILE
1	H	528	THR
1	H	533	ASP
1	H	536	ARG
1	H	539	LEU
1	H	549	LEU
1	H	580	ARG
1	H	585	SER
1	H	587	THR
1	H	595	SER
1	H	621	LYS
1	H	625	GLN
1	H	648	GLN
1	H	649	ARG
1	H	654	LEU
1	H	666	THR
1	H	683	GLU

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Mol	Chain	Res	Type
1	H	698	GLU
1	H	706	LEU
1	H	721	ASN
1	H	729	ARG
1	H	742	LEU
1	H	755	THR
1	H	770	LEU
1	H	778	GLU
1	H	779	LEU
1	H	785	GLN
1	H	793	LYS
1	H	794	LYS
1	H	810	LEU
1	I	1	MET
1	I	3	THR
1	I	18	VAL
1	I	36	ILE
1	I	38	GLN
1	I	50	MET
1	I	52	THR
1	I	57	HIS
1	I	60	ILE
1	I	61	VAL
1	I	70	GLN
1	I	74	LEU
1	I	75	PHE
1	I	80	GLN
1	I	83	LEU
1	I	84	ARG
1	I	106	GLU
1	I	110	THR
1	I	114	VAL
1	I	115	VAL
1	I	119	THR
1	I	123	LEU
1	I	127	LEU
1	I	131	ASP
1	I	132	LYS
1	I	135	ASP
1	I	137	VAL
1	I	145	PHE
1	I	151	TYR

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Mol	Chain	Res	Type
1	I	152	ILE
1	I	160	VAL
1	I	161	GLU
1	I	163	ILE
1	I	167	VAL
1	I	169	LYS
1	I	175	ARG
1	I	177	ARG
1	I	183	PHE
1	I	192	THR
1	I	197	LEU
1	I	199	ARG
1	I	201	VAL
1	I	205	LEU
1	I	213	LEU
1	I	216	VAL
1	I	221	LEU
1	I	222	THR
1	I	225	THR
1	I	230	ARG
1	I	234	ASN
1	I	236	ARG
1	I	238	LEU
1	I	242	LEU
1	I	249	TRP
1	I	250	LEU
1	I	253	VAL
1	I	254	GLN
1	I	257	GLU
1	I	266	GLU
1	I	267	VAL
1	I	268	LEU
1	I	271	VAL
1	I	276	LEU
1	I	281	TYR
1	I	284	ILE
1	I	286	ASP
1	I	294	ASN
1	I	296	LEU
1	I	301	VAL
1	I	308	PHE
1	I	310	LEU

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Mol	Chain	Res	Type
1	I	322	ASP
1	I	330	GLN
1	I	332	LEU
1	I	334	LEU
1	I	335	LYS
1	I	341	GLU
1	I	342	GLU
1	I	358	LEU
1	I	359	ILE
1	I	363	LEU
1	I	383	ASP
1	I	384	GLN
1	I	385	ASN
1	I	407	MET
1	I	418	GLU
1	I	474	ARG
1	I	479	ARG
1	I	486	LEU
1	I	487	VAL
1	I	490	ASP
1	I	495	PHE
1	I	496	THR
1	I	516	LEU
1	I	517	LEU
1	I	518	LEU
1	I	523	PHE
1	I	527	ILE
1	I	533	ASP
1	I	536	ARG
1	I	539	LEU
1	I	549	LEU
1	I	561	LEU
1	I	580	ARG
1	I	587	THR
1	I	621	LYS
1	I	648	GLN
1	I	654	LEU
1	I	666	THR
1	I	668	SER
1	I	691	GLN
1	I	698	GLU
1	I	709	LEU

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Mol	Chain	Res	Type
1	I	742	LEU
1	I	747	LYS
1	I	755	THR
1	I	766	ARG
1	I	770	LEU
1	I	778	GLU
1	I	780	GLU
1	I	790	VAL
1	I	793	LYS
1	I	802	LEU
1	I	806	THR
1	I	809	ASP
1	I	810	LEU
1	J	1	MET
1	J	3	THR
1	J	18	VAL
1	J	35	TYR
1	J	36	ILE
1	J	38	GLN
1	J	41	GLU
1	J	42	ARG
1	J	50	MET
1	J	60	ILE
1	J	61	VAL
1	J	63	ASN
1	J	70	GLN
1	J	74	LEU
1	J	75	PHE
1	J	83	LEU
1	J	84	ARG
1	J	106	GLU
1	J	114	VAL
1	J	119	THR
1	J	122	HIS
1	J	127	LEU
1	J	130	GLU
1	J	131	ASP
1	J	133	ASN
1	J	135	ASP
1	J	137	VAL
1	J	138	MET
1	J	144	LEU

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Mol	Chain	Res	Type
1	J	151	TYR
1	J	152	ILE
1	J	160	VAL
1	J	161	GLU
1	J	163	ILE
1	J	169	LYS
1	J	175	ARG
1	J	177	ARG
1	J	183	PHE
1	J	192	THR
1	J	197	LEU
1	J	199	ARG
1	J	201	VAL
1	J	205	LEU
1	J	213	LEU
1	J	217	ASP
1	J	221	LEU
1	J	222	THR
1	J	225	THR
1	J	230	ARG
1	J	238	LEU
1	J	242	LEU
1	J	249	TRP
1	J	250	LEU
1	J	253	VAL
1	J	257	GLU
1	J	266	GLU
1	J	268	LEU
1	J	271	VAL
1	J	276	LEU
1	J	281	TYR
1	J	284	ILE
1	J	286	ASP
1	J	293	LYS
1	J	296	LEU
1	J	298	GLN
1	J	300	ARG
1	J	301	VAL
1	J	302	VAL
1	J	308	PHE
1	J	310	LEU
1	J	318	ARG

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Mol	Chain	Res	Type
1	J	320	ILE
1	J	321	GLN
1	J	322	ASP
1	J	328	GLU
1	J	334	LEU
1	J	335	LYS
1	J	341	GLU
1	J	342	GLU
1	J	356	CYS
1	J	358	LEU
1	J	363	LEU
1	J	373	VAL
1	J	380	ILE
1	J	383	ASP
1	J	384	GLN
1	J	385	ASN
1	J	388	ILE
1	J	395	THR
1	J	407	MET
1	J	417	LYS
1	J	418	GLU
1	J	421	SER
1	J	474	ARG
1	J	479	ARG
1	J	486	LEU
1	J	487	VAL
1	J	490	ASP
1	J	496	THR
1	J	497	VAL
1	J	501	SER
1	J	504	ARG
1	J	516	LEU
1	J	517	LEU
1	J	518	LEU
1	J	522	PHE
1	J	527	ILE
1	J	533	ASP
1	J	536	ARG
1	J	539	LEU
1	J	549	LEU
1	J	561	LEU
1	J	580	ARG

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Mol	Chain	Res	Type
1	J	587	THR
1	J	595	SER
1	J	621	LYS
1	J	648	GLN
1	J	654	LEU
1	J	666	THR
1	J	668	SER
1	J	689	GLU
1	J	747	LYS
1	J	755	THR
1	J	761	ARG
1	J	769	GLU
1	J	770	LEU
1	J	771	ILE
1	J	793	LYS
1	J	794	LYS
1	J	802	LEU
1	J	808	ARG
1	K	1	MET
1	K	3	THR
1	K	13	TYR
1	K	18	VAL
1	K	35	TYR
1	K	36	ILE
1	K	38	GLN
1	K	50	MET
1	K	52	THR
1	K	60	ILE
1	K	61	VAL
1	K	63	ASN
1	K	65	VAL
1	K	70	GLN
1	K	74	LEU
1	K	75	PHE
1	K	82	ARG
1	K	83	LEU
1	K	84	ARG
1	K	104	VAL
1	K	108	ASP
1	K	110	THR
1	K	114	VAL
1	K	119	THR

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Mol	Chain	Res	Type
1	K	124	LYS
1	K	127	LEU
1	K	131	ASP
1	K	133	ASN
1	K	135	ASP
1	K	137	VAL
1	K	138	MET
1	K	141	ASP
1	K	144	LEU
1	K	148	PRO
1	K	151	TYR
1	K	152	ILE
1	K	155	LYS
1	K	156	GLU
1	K	160	VAL
1	K	161	GLU
1	K	163	ILE
1	K	166	THR
1	K	170	GLN
1	K	175	ARG
1	K	177	ARG
1	K	183	PHE
1	K	188	LYS
1	K	192	THR
1	K	196	TRP
1	K	197	LEU
1	K	199	ARG
1	K	204	TYR
1	K	205	LEU
1	K	208	VAL
1	K	213	LEU
1	K	220	ILE
1	K	221	LEU
1	K	222	THR
1	K	225	THR
1	K	227	LEU
1	K	230	ARG
1	K	234	ASN
1	K	238	LEU
1	K	242	LEU
1	K	249	TRP
1	K	252	THR

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Mol	Chain	Res	Type
1	K	253	VAL
1	K	257	GLU
1	K	266	GLU
1	K	268	LEU
1	K	271	VAL
1	K	276	LEU
1	K	284	ILE
1	K	286	ASP
1	K	293	LYS
1	K	294	ASN
1	K	295	GLN
1	K	296	LEU
1	K	301	VAL
1	K	308	PHE
1	K	318	ARG
1	K	320	ILE
1	K	322	ASP
1	K	327	SER
1	K	328	GLU
1	K	332	LEU
1	K	334	LEU
1	K	335	LYS
1	K	341	GLU
1	K	342	GLU
1	K	358	LEU
1	K	363	LEU
1	K	373	VAL
1	K	383	ASP
1	K	384	GLN
1	K	385	ASN
1	K	388	ILE
1	K	395	THR
1	K	407	MET
1	K	418	GLU
1	K	421	SER
1	K	424	GLU
1	K	474	ARG
1	K	479	ARG
1	K	486	LEU
1	K	487	VAL
1	K	512	ARG
1	K	516	LEU

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Mol	Chain	Res	Type
1	K	517	LEU
1	K	522	PHE
1	K	527	ILE
1	K	528	THR
1	K	533	ASP
1	K	536	ARG
1	K	539	LEU
1	K	549	LEU
1	K	551	ASN
1	K	561	LEU
1	K	580	ARG
1	K	587	THR
1	K	598	ILE
1	K	601	MET
1	K	621	LYS
1	K	625	GLN
1	K	633	LEU
1	K	648	GLN
1	K	666	THR
1	K	668	SER
1	K	690	ARG
1	K	692	LYS
1	K	706	LEU
1	K	718	SER
1	K	721	ASN
1	K	742	LEU
1	K	755	THR
1	K	769	GLU
1	K	771	ILE
1	K	779	LEU
1	K	790	VAL
1	K	793	LYS
1	K	802	LEU
1	K	806	THR
1	K	809	ASP
1	K	810	LEU
1	L	1	MET
1	L	3	THR
1	L	18	VAL
1	L	35	TYR
1	L	36	ILE
1	L	38	GLN

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Mol	Chain	Res	Type
1	L	41	GLU
1	L	50	MET
1	L	60	ILE
1	L	61	VAL
1	L	70	GLN
1	L	74	LEU
1	L	75	PHE
1	L	80	GLN
1	L	83	LEU
1	L	84	ARG
1	L	104	VAL
1	L	106	GLU
1	L	107	LYS
1	L	110	THR
1	L	114	VAL
1	L	115	VAL
1	L	119	THR
1	L	127	LEU
1	L	131	ASP
1	L	132	LYS
1	L	135	ASP
1	L	137	VAL
1	L	141	ASP
1	L	144	LEU
1	L	151	TYR
1	L	152	ILE
1	L	155	LYS
1	L	156	GLU
1	L	160	VAL
1	L	161	GLU
1	L	167	VAL
1	L	175	ARG
1	L	177	ARG
1	L	183	PHE
1	L	192	THR
1	L	198	VAL
1	L	199	ARG
1	L	201	VAL
1	L	205	LEU
1	L	213	LEU
1	L	221	LEU
1	L	222	THR

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Mol	Chain	Res	Type
1	L	225	THR
1	L	227	LEU
1	L	230	ARG
1	L	232	LEU
1	L	236	ARG
1	L	238	LEU
1	L	242	LEU
1	L	249	TRP
1	L	253	VAL
1	L	257	GLU
1	L	266	GLU
1	L	268	LEU
1	L	271	VAL
1	L	276	LEU
1	L	284	ILE
1	L	286	ASP
1	L	295	GLN
1	L	296	LEU
1	L	301	VAL
1	L	307	SER
1	L	308	PHE
1	L	320	ILE
1	L	322	ASP
1	L	327	SER
1	L	332	LEU
1	L	334	LEU
1	L	335	LYS
1	L	337	LEU
1	L	341	GLU
1	L	342	GLU
1	L	345	SER
1	L	356	CYS
1	L	358	LEU
1	L	363	LEU
1	L	373	VAL
1	L	380	ILE
1	L	383	ASP
1	L	384	GLN
1	L	385	ASN
1	L	395	THR
1	L	407	MET
1	L	418	GLU

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Mol	Chain	Res	Type
1	L	425	GLU
1	L	474	ARG
1	L	479	ARG
1	L	486	LEU
1	L	487	VAL
1	L	490	ASP
1	L	497	VAL
1	L	516	LEU
1	L	517	LEU
1	L	518	LEU
1	L	524	THR
1	L	536	ARG
1	L	539	LEU
1	L	549	LEU
1	L	561	LEU
1	L	580	ARG
1	L	587	THR
1	L	595	SER
1	L	598	ILE
1	L	601	MET
1	L	621	LYS
1	L	648	GLN
1	L	649	ARG
1	L	654	LEU
1	L	666	THR
1	L	668	SER
1	L	683	GLU
1	L	713	SER
1	L	721	ASN
1	L	742	LEU
1	L	747	LYS
1	L	755	THR
1	L	766	ARG
1	L	778	GLU
1	L	779	LEU
1	L	793	LYS
1	L	802	LEU
1	M	1	MET
1	M	3	THR
1	M	18	VAL
1	M	23	SER
1	M	33	LYS

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Mol	Chain	Res	Type
1	M	36	ILE
1	M	38	GLN
1	M	50	MET
1	M	52	THR
1	M	57	HIS
1	M	60	ILE
1	M	61	VAL
1	M	63	ASN
1	M	65	VAL
1	M	70	GLN
1	M	74	LEU
1	M	82	ARG
1	M	83	LEU
1	M	84	ARG
1	M	90	ILE
1	M	104	VAL
1	M	106	GLU
1	M	110	THR
1	M	114	VAL
1	M	115	VAL
1	M	119	THR
1	M	127	LEU
1	M	131	ASP
1	M	132	LYS
1	M	133	ASN
1	M	135	ASP
1	M	137	VAL
1	M	144	LEU
1	M	145	PHE
1	M	151	TYR
1	M	152	ILE
1	M	155	LYS
1	M	156	GLU
1	M	160	VAL
1	M	161	GLU
1	M	163	ILE
1	M	169	LYS
1	M	175	ARG
1	M	177	ARG
1	M	183	PHE
1	M	192	THR
1	M	197	LEU

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Mol	Chain	Res	Type
1	M	199	ARG
1	M	204	TYR
1	M	205	LEU
1	M	213	LEU
1	M	221	LEU
1	M	222	THR
1	M	225	THR
1	M	230	ARG
1	M	234	ASN
1	M	238	LEU
1	M	242	LEU
1	M	249	TRP
1	M	250	LEU
1	M	257	GLU
1	M	266	GLU
1	M	268	LEU
1	M	271	VAL
1	M	276	LEU
1	M	284	ILE
1	M	286	ASP
1	M	296	LEU
1	M	301	VAL
1	M	307	SER
1	M	308	PHE
1	M	318	ARG
1	M	320	ILE
1	M	322	ASP
1	M	334	LEU
1	M	335	LYS
1	M	340	LEU
1	M	341	GLU
1	M	342	GLU
1	M	356	CYS
1	M	358	LEU
1	M	363	LEU
1	M	373	VAL
1	M	380	ILE
1	M	383	ASP
1	M	384	GLN
1	M	385	ASN
1	M	388	ILE
1	M	395	THR

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Mol	Chain	Res	Type
1	M	407	MET
1	M	418	GLU
1	M	474	ARG
1	M	479	ARG
1	M	486	LEU
1	M	487	VAL
1	M	490	ASP
1	M	496	THR
1	M	516	LEU
1	M	517	LEU
1	M	518	LEU
1	M	523	PHE
1	M	527	ILE
1	M	533	ASP
1	M	536	ARG
1	M	539	LEU
1	M	549	LEU
1	M	580	ARG
1	M	586	VAL
1	M	587	THR
1	M	595	SER
1	M	621	LYS
1	M	648	GLN
1	M	654	LEU
1	M	666	THR
1	M	683	GLU
1	M	692	LYS
1	M	706	LEU
1	M	718	SER
1	M	734	ARG
1	M	747	LYS
1	M	755	THR
1	M	770	LEU
1	M	779	LEU
1	M	793	LYS
1	M	799	THR
1	M	806	THR
1	N	1	MET
1	N	3	THR
1	N	18	VAL
1	N	22	ASN
1	N	23	SER

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Mol	Chain	Res	Type
1	N	36	ILE
1	N	38	GLN
1	N	50	MET
1	N	52	THR
1	N	60	ILE
1	N	61	VAL
1	N	63	ASN
1	N	65	VAL
1	N	70	GLN
1	N	74	LEU
1	N	82	ARG
1	N	83	LEU
1	N	84	ARG
1	N	104	VAL
1	N	108	ASP
1	N	114	VAL
1	N	119	THR
1	N	127	LEU
1	N	131	ASP
1	N	135	ASP
1	N	144	LEU
1	N	145	PHE
1	N	152	ILE
1	N	155	LYS
1	N	156	GLU
1	N	160	VAL
1	N	161	GLU
1	N	163	ILE
1	N	175	ARG
1	N	177	ARG
1	N	179	ARG
1	N	183	PHE
1	N	191	VAL
1	N	192	THR
1	N	196	TRP
1	N	197	LEU
1	N	199	ARG
1	N	204	TYR
1	N	205	LEU
1	N	213	LEU
1	N	221	LEU
1	N	222	THR

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Mol	Chain	Res	Type
1	N	230	ARG
1	N	234	ASN
1	N	238	LEU
1	N	242	LEU
1	N	249	TRP
1	N	250	LEU
1	N	254	GLN
1	N	257	GLU
1	N	259	HIS
1	N	266	GLU
1	N	267	VAL
1	N	268	LEU
1	N	271	VAL
1	N	276	LEU
1	N	281	TYR
1	N	284	ILE
1	N	286	ASP
1	N	296	LEU
1	N	301	VAL
1	N	307	SER
1	N	308	PHE
1	N	318	ARG
1	N	320	ILE
1	N	321	GLN
1	N	322	ASP
1	N	334	LEU
1	N	335	LYS
1	N	337	LEU
1	N	340	LEU
1	N	341	GLU
1	N	342	GLU
1	N	358	LEU
1	N	363	LEU
1	N	370	LYS
1	N	373	VAL
1	N	380	ILE
1	N	383	ASP
1	N	384	GLN
1	N	385	ASN
1	N	388	ILE
1	N	395	THR
1	N	407	MET

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Mol	Chain	Res	Type
1	N	417	LYS
1	N	418	GLU
1	N	474	ARG
1	N	476	LYS
1	N	479	ARG
1	N	486	LEU
1	N	487	VAL
1	N	490	ASP
1	N	497	VAL
1	N	516	LEU
1	N	517	LEU
1	N	533	ASP
1	N	536	ARG
1	N	539	LEU
1	N	549	LEU
1	N	551	ASN
1	N	552	ARG
1	N	580	ARG
1	N	587	THR
1	N	621	LYS
1	N	624	ASP
1	N	633	LEU
1	N	648	GLN
1	N	654	LEU
1	N	666	THR
1	N	668	SER
1	N	683	GLU
1	N	734	ARG
1	N	742	LEU
1	N	755	THR
1	N	761	ARG
1	N	769	GLU
1	N	770	LEU
1	N	778	GLU
1	N	790	VAL
1	N	793	LYS
1	N	794	LYS
1	N	802	LEU
1	N	806	THR
1	O	1	MET
1	O	3	THR
1	O	13	TYR

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Mol	Chain	Res	Type
1	O	18	VAL
1	O	33	LYS
1	O	35	TYR
1	O	36	ILE
1	O	38	GLN
1	O	50	MET
1	O	57	HIS
1	O	60	ILE
1	O	61	VAL
1	O	63	ASN
1	O	65	VAL
1	O	70	GLN
1	O	74	LEU
1	O	75	PHE
1	O	83	LEU
1	O	95	ASP
1	O	104	VAL
1	O	106	GLU
1	O	110	THR
1	O	114	VAL
1	O	119	THR
1	O	127	LEU
1	O	131	ASP
1	O	132	LYS
1	O	133	ASN
1	O	135	ASP
1	O	137	VAL
1	O	144	LEU
1	O	151	TYR
1	O	152	ILE
1	O	155	LYS
1	O	156	GLU
1	O	158	GLU
1	O	160	VAL
1	O	161	GLU
1	O	162	ILE
1	O	175	ARG
1	O	177	ARG
1	O	179	ARG
1	O	191	VAL
1	O	192	THR
1	O	197	LEU

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Mol	Chain	Res	Type
1	O	199	ARG
1	O	201	VAL
1	O	204	TYR
1	O	205	LEU
1	O	213	LEU
1	O	221	LEU
1	O	222	THR
1	O	225	THR
1	O	230	ARG
1	O	235	PHE
1	O	238	LEU
1	O	242	LEU
1	O	249	TRP
1	O	250	LEU
1	O	253	VAL
1	O	257	GLU
1	O	259	HIS
1	O	266	GLU
1	O	267	VAL
1	O	268	LEU
1	O	271	VAL
1	O	276	LEU
1	O	281	TYR
1	O	284	ILE
1	O	286	ASP
1	O	296	LEU
1	O	301	VAL
1	O	302	VAL
1	O	307	SER
1	O	308	PHE
1	O	310	LEU
1	O	320	ILE
1	O	322	ASP
1	O	328	GLU
1	O	332	LEU
1	O	334	LEU
1	O	335	LYS
1	O	337	LEU
1	O	341	GLU
1	O	342	GLU
1	O	358	LEU
1	O	363	LEU

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Mol	Chain	Res	Type
1	O	373	VAL
1	O	380	ILE
1	O	384	GLN
1	O	385	ASN
1	O	393	VAL
1	O	407	MET
1	O	417	LYS
1	O	421	SER
1	O	424	GLU
1	O	474	ARG
1	O	479	ARG
1	O	486	LEU
1	O	487	VAL
1	O	490	ASP
1	O	496	THR
1	O	501	SER
1	O	504	ARG
1	O	512	ARG
1	O	516	LEU
1	O	517	LEU
1	O	518	LEU
1	O	523	PHE
1	O	527	ILE
1	O	539	LEU
1	O	549	LEU
1	O	580	ARG
1	O	587	THR
1	O	595	SER
1	O	598	ILE
1	O	621	LYS
1	O	633	LEU
1	O	648	GLN
1	O	654	LEU
1	O	666	THR
1	O	668	SER
1	O	692	LYS
1	O	698	GLU
1	O	706	LEU
1	O	721	ASN
1	O	747	LYS
1	O	764	LYS
1	O	770	LEU

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Mol	Chain	Res	Type
1	O	778	GLU
1	O	779	LEU
1	O	787	LEU
1	O	790	VAL
1	O	793	LYS
1	O	809	ASP
1	P	1	MET
1	P	3	THR
1	P	18	VAL
1	P	35	TYR
1	P	36	ILE
1	P	38	GLN
1	P	41	GLU
1	P	50	MET
1	P	57	HIS
1	P	60	ILE
1	P	61	VAL
1	P	63	ASN
1	P	65	VAL
1	P	70	GLN
1	P	74	LEU
1	P	75	PHE
1	P	83	LEU
1	P	84	ARG
1	P	95	ASP
1	P	104	VAL
1	P	105	LEU
1	P	106	GLU
1	P	114	VAL
1	P	119	THR
1	P	127	LEU
1	P	131	ASP
1	P	132	LYS
1	P	133	ASN
1	P	135	ASP
1	P	137	VAL
1	P	142	GLU
1	P	144	LEU
1	P	145	PHE
1	P	152	ILE
1	P	156	GLU
1	P	160	VAL

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Mol	Chain	Res	Type
1	P	161	GLU
1	P	169	LYS
1	P	175	ARG
1	P	177	ARG
1	P	183	PHE
1	P	192	THR
1	P	196	TRP
1	P	197	LEU
1	P	199	ARG
1	P	200	SER
1	P	205	LEU
1	P	213	LEU
1	P	221	LEU
1	P	222	THR
1	P	225	THR
1	P	227	LEU
1	P	230	ARG
1	P	234	ASN
1	P	236	ARG
1	P	238	LEU
1	P	241	VAL
1	P	242	LEU
1	P	244	ARG
1	P	249	TRP
1	P	250	LEU
1	P	253	VAL
1	P	257	GLU
1	P	266	GLU
1	P	267	VAL
1	P	268	LEU
1	P	271	VAL
1	P	276	LEU
1	P	281	TYR
1	P	284	ILE
1	P	286	ASP
1	P	296	LEU
1	P	308	PHE
1	P	310	LEU
1	P	318	ARG
1	P	320	ILE
1	P	322	ASP
1	P	334	LEU

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Mol	Chain	Res	Type
1	P	335	LYS
1	P	337	LEU
1	P	341	GLU
1	P	342	GLU
1	P	345	SER
1	P	356	CYS
1	P	358	LEU
1	P	360	ARG
1	P	363	LEU
1	P	373	VAL
1	P	380	ILE
1	P	383	ASP
1	P	384	GLN
1	P	385	ASN
1	P	388	ILE
1	P	395	THR
1	P	405	THR
1	P	407	MET
1	P	417	LYS
1	P	452	ARG
1	P	474	ARG
1	P	479	ARG
1	P	486	LEU
1	P	487	VAL
1	P	496	THR
1	P	507	ARG
1	P	512	ARG
1	P	516	LEU
1	P	517	LEU
1	P	518	LEU
1	P	522	PHE
1	P	523	PHE
1	P	527	ILE
1	P	533	ASP
1	P	536	ARG
1	P	539	LEU
1	P	549	LEU
1	P	575	ILE
1	P	580	ARG
1	P	585	SER
1	P	587	THR
1	P	601	MET

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Mol	Chain	Res	Type
1	P	621	LYS
1	P	648	GLN
1	P	654	LEU
1	P	666	THR
1	P	668	SER
1	P	683	GLU
1	P	706	LEU
1	P	734	ARG
1	P	755	THR
1	P	770	LEU
1	P	771	ILE
1	P	778	GLU
1	P	787	LEU
1	P	790	VAL
1	P	793	LYS
1	P	802	LEU
1	Q	1	MET
1	Q	3	THR
1	Q	18	VAL
1	Q	33	LYS
1	Q	35	TYR
1	Q	36	ILE
1	Q	38	GLN
1	Q	50	MET
1	Q	60	ILE
1	Q	61	VAL
1	Q	65	VAL
1	Q	66	SER
1	Q	68	ASP
1	Q	70	GLN
1	Q	71	SER
1	Q	74	LEU
1	Q	75	PHE
1	Q	82	ARG
1	Q	83	LEU
1	Q	108	ASP
1	Q	110	THR
1	Q	114	VAL
1	Q	119	THR
1	Q	124	LYS
1	Q	127	LEU
1	Q	131	ASP

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Mol	Chain	Res	Type
1	Q	135	ASP
1	Q	138	MET
1	Q	141	ASP
1	Q	144	LEU
1	Q	151	TYR
1	Q	152	ILE
1	Q	155	LYS
1	Q	156	GLU
1	Q	158	GLU
1	Q	160	VAL
1	Q	161	GLU
1	Q	163	ILE
1	Q	168	ILE
1	Q	174	LEU
1	Q	175	ARG
1	Q	177	ARG
1	Q	183	PHE
1	Q	191	VAL
1	Q	192	THR
1	Q	196	TRP
1	Q	197	LEU
1	Q	199	ARG
1	Q	204	TYR
1	Q	205	LEU
1	Q	213	LEU
1	Q	221	LEU
1	Q	222	THR
1	Q	225	THR
1	Q	227	LEU
1	Q	230	ARG
1	Q	234	ASN
1	Q	236	ARG
1	Q	238	LEU
1	Q	242	LEU
1	Q	249	TRP
1	Q	250	LEU
1	Q	257	GLU
1	Q	259	HIS
1	Q	266	GLU
1	Q	268	LEU
1	Q	271	VAL
1	Q	276	LEU

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Mol	Chain	Res	Type
1	Q	284	ILE
1	Q	286	ASP
1	Q	293	LYS
1	Q	296	LEU
1	Q	299	LYS
1	Q	301	VAL
1	Q	308	PHE
1	Q	310	LEU
1	Q	314	GLU
1	Q	318	ARG
1	Q	320	ILE
1	Q	322	ASP
1	Q	334	LEU
1	Q	335	LYS
1	Q	337	LEU
1	Q	341	GLU
1	Q	342	GLU
1	Q	345	SER
1	Q	358	LEU
1	Q	363	LEU
1	Q	373	VAL
1	Q	380	ILE
1	Q	383	ASP
1	Q	384	GLN
1	Q	385	ASN
1	Q	388	ILE
1	Q	395	THR
1	Q	407	MET
1	Q	417	LYS
1	Q	421	SER
1	Q	468	VAL
1	Q	474	ARG
1	Q	479	ARG
1	Q	486	LEU
1	Q	487	VAL
1	Q	496	THR
1	Q	501	SER
1	Q	516	LEU
1	Q	517	LEU
1	Q	518	LEU
1	Q	527	ILE
1	Q	533	ASP

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Mol	Chain	Res	Type
1	Q	536	ARG
1	Q	549	LEU
1	Q	580	ARG
1	Q	587	THR
1	Q	595	SER
1	Q	601	MET
1	Q	621	LYS
1	Q	633	LEU
1	Q	648	GLN
1	Q	654	LEU
1	Q	666	THR
1	Q	668	SER
1	Q	683	GLU
1	Q	721	ASN
1	Q	734	ARG
1	Q	742	LEU
1	Q	747	LYS
1	Q	755	THR
1	Q	760	GLU
1	Q	770	LEU
1	Q	778	GLU
1	Q	779	LEU
1	Q	793	LYS
1	Q	794	LYS
1	Q	806	THR
1	R	1	MET
1	R	3	THR
1	R	13	TYR
1	R	18	VAL
1	R	33	LYS
1	R	35	TYR
1	R	36	ILE
1	R	38	GLN
1	R	41	GLU
1	R	42	ARG
1	R	50	MET
1	R	60	ILE
1	R	61	VAL
1	R	66	SER
1	R	70	GLN
1	R	74	LEU
1	R	82	ARG

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Mol	Chain	Res	Type
1	R	83	LEU
1	R	106	GLU
1	R	110	THR
1	R	114	VAL
1	R	115	VAL
1	R	119	THR
1	R	123	LEU
1	R	127	LEU
1	R	131	ASP
1	R	133	ASN
1	R	135	ASP
1	R	137	VAL
1	R	138	MET
1	R	144	LEU
1	R	146	GLU
1	R	151	TYR
1	R	152	ILE
1	R	155	LYS
1	R	156	GLU
1	R	158	GLU
1	R	161	GLU
1	R	163	ILE
1	R	175	ARG
1	R	183	PHE
1	R	191	VAL
1	R	192	THR
1	R	196	TRP
1	R	197	LEU
1	R	200	SER
1	R	201	VAL
1	R	204	TYR
1	R	205	LEU
1	R	208	VAL
1	R	213	LEU
1	R	217	ASP
1	R	221	LEU
1	R	222	THR
1	R	225	THR
1	R	227	LEU
1	R	230	ARG
1	R	234	ASN
1	R	236	ARG

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Mol	Chain	Res	Type
1	R	238	LEU
1	R	242	LEU
1	R	249	TRP
1	R	252	THR
1	R	253	VAL
1	R	254	GLN
1	R	257	GLU
1	R	259	HIS
1	R	268	LEU
1	R	271	VAL
1	R	276	LEU
1	R	284	ILE
1	R	286	ASP
1	R	293	LYS
1	R	296	LEU
1	R	301	VAL
1	R	302	VAL
1	R	308	PHE
1	R	320	ILE
1	R	322	ASP
1	R	328	GLU
1	R	330	GLN
1	R	332	LEU
1	R	335	LYS
1	R	337	LEU
1	R	340	LEU
1	R	341	GLU
1	R	342	GLU
1	R	358	LEU
1	R	363	LEU
1	R	373	VAL
1	R	380	ILE
1	R	383	ASP
1	R	384	GLN
1	R	385	ASN
1	R	388	ILE
1	R	395	THR
1	R	407	MET
1	R	408	LEU
1	R	417	LYS
1	R	456	ARG
1	R	474	ARG

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Mol	Chain	Res	Type
1	R	486	LEU
1	R	487	VAL
1	R	490	ASP
1	R	496	THR
1	R	501	SER
1	R	516	LEU
1	R	517	LEU
1	R	518	LEU
1	R	522	PHE
1	R	527	ILE
1	R	533	ASP
1	R	536	ARG
1	R	549	LEU
1	R	575	ILE
1	R	580	ARG
1	R	585	SER
1	R	587	THR
1	R	601	MET
1	R	621	LYS
1	R	633	LEU
1	R	648	GLN
1	R	651	ARG
1	R	654	LEU
1	R	666	THR
1	R	668	SER
1	R	685	ARG
1	R	690	ARG
1	R	706	LEU
1	R	734	ARG
1	R	747	LYS
1	R	755	THR
1	R	769	GLU
1	R	770	LEU
1	R	778	GLU
1	R	779	LEU
1	R	785	GLN
1	R	787	LEU
1	R	790	VAL
1	R	793	LYS
1	R	794	LYS
1	R	806	THR
1	S	1	MET

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Mol	Chain	Res	Type
1	S	3	THR
1	S	13	TYR
1	S	18	VAL
1	S	23	SER
1	S	33	LYS
1	S	35	TYR
1	S	36	ILE
1	S	38	GLN
1	S	41	GLU
1	S	50	MET
1	S	52	THR
1	S	60	ILE
1	S	61	VAL
1	S	63	ASN
1	S	66	SER
1	S	70	GLN
1	S	74	LEU
1	S	75	PHE
1	S	83	LEU
1	S	84	ARG
1	S	95	ASP
1	S	104	VAL
1	S	106	GLU
1	S	110	THR
1	S	114	VAL
1	S	115	VAL
1	S	119	THR
1	S	127	LEU
1	S	130	GLU
1	S	131	ASP
1	S	133	ASN
1	S	135	ASP
1	S	137	VAL
1	S	144	LEU
1	S	152	ILE
1	S	156	GLU
1	S	160	VAL
1	S	161	GLU
1	S	163	ILE
1	S	174	LEU
1	S	175	ARG
1	S	177	ARG

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Mol	Chain	Res	Type
1	S	183	PHE
1	S	192	THR
1	S	196	TRP
1	S	197	LEU
1	S	199	ARG
1	S	201	VAL
1	S	205	LEU
1	S	213	LEU
1	S	221	LEU
1	S	222	THR
1	S	225	THR
1	S	230	ARG
1	S	236	ARG
1	S	238	LEU
1	S	242	LEU
1	S	249	TRP
1	S	253	VAL
1	S	257	GLU
1	S	259	HIS
1	S	266	GLU
1	S	268	LEU
1	S	271	VAL
1	S	276	LEU
1	S	284	ILE
1	S	286	ASP
1	S	296	LEU
1	S	305	GLU
1	S	308	PHE
1	S	309	PHE
1	S	322	ASP
1	S	332	LEU
1	S	334	LEU
1	S	335	LYS
1	S	341	GLU
1	S	342	GLU
1	S	358	LEU
1	S	363	LEU
1	S	373	VAL
1	S	380	ILE
1	S	383	ASP
1	S	384	GLN
1	S	385	ASN

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Mol	Chain	Res	Type
1	S	388	ILE
1	S	402	ILE
1	S	407	MET
1	S	417	LYS
1	S	474	ARG
1	S	479	ARG
1	S	486	LEU
1	S	487	VAL
1	S	496	THR
1	S	501	SER
1	S	516	LEU
1	S	517	LEU
1	S	518	LEU
1	S	522	PHE
1	S	529	ILE
1	S	533	ASP
1	S	536	ARG
1	S	549	LEU
1	S	580	ARG
1	S	587	THR
1	S	595	SER
1	S	621	LYS
1	S	633	LEU
1	S	648	GLN
1	S	654	LEU
1	S	666	THR
1	S	668	SER
1	S	698	GLU
1	S	706	LEU
1	S	734	ARG
1	S	742	LEU
1	S	747	LYS
1	S	755	THR
1	S	770	LEU
1	S	771	ILE
1	S	778	GLU
1	S	779	LEU
1	S	802	LEU
1	S	806	THR
1	T	1	MET
1	T	3	THR
1	T	18	VAL

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Mol	Chain	Res	Type
1	T	23	SER
1	T	33	LYS
1	T	35	TYR
1	T	36	ILE
1	T	38	GLN
1	T	41	GLU
1	T	50	MET
1	T	60	ILE
1	T	63	ASN
1	T	65	VAL
1	T	70	GLN
1	T	74	LEU
1	T	83	LEU
1	T	84	ARG
1	T	90	ILE
1	T	95	ASP
1	T	106	GLU
1	T	114	VAL
1	T	115	VAL
1	T	119	THR
1	T	127	LEU
1	T	131	ASP
1	T	132	LYS
1	T	135	ASP
1	T	137	VAL
1	T	138	MET
1	T	144	LEU
1	T	145	PHE
1	T	148	PRO
1	T	151	TYR
1	T	160	VAL
1	T	161	GLU
1	T	166	THR
1	T	169	LYS
1	T	175	ARG
1	T	177	ARG
1	T	183	PHE
1	T	191	VAL
1	T	196	TRP
1	T	197	LEU
1	T	199	ARG
1	T	205	LEU

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Mol	Chain	Res	Type
1	T	213	LEU
1	T	222	THR
1	T	225	THR
1	T	227	LEU
1	T	230	ARG
1	T	236	ARG
1	T	238	LEU
1	T	242	LEU
1	T	249	TRP
1	T	253	VAL
1	T	257	GLU
1	T	259	HIS
1	T	266	GLU
1	T	268	LEU
1	T	271	VAL
1	T	276	LEU
1	T	281	TYR
1	T	284	ILE
1	T	286	ASP
1	T	296	LEU
1	T	302	VAL
1	T	306	LYS
1	T	308	PHE
1	T	310	LEU
1	T	318	ARG
1	T	320	ILE
1	T	321	GLN
1	T	322	ASP
1	T	328	GLU
1	T	335	LYS
1	T	341	GLU
1	T	342	GLU
1	T	358	LEU
1	T	360	ARG
1	T	363	LEU
1	T	373	VAL
1	T	383	ASP
1	T	384	GLN
1	T	385	ASN
1	T	388	ILE
1	T	407	MET
1	T	474	ARG

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Mol	Chain	Res	Type
1	T	479	ARG
1	T	486	LEU
1	T	487	VAL
1	T	490	ASP
1	T	495	PHE
1	T	496	THR
1	T	501	SER
1	T	512	ARG
1	T	517	LEU
1	T	518	LEU
1	T	522	PHE
1	T	523	PHE
1	T	527	ILE
1	T	536	ARG
1	T	549	LEU
1	T	580	ARG
1	T	585	SER
1	T	587	THR
1	T	621	LYS
1	T	648	GLN
1	T	654	LEU
1	T	666	THR
1	T	668	SER
1	T	683	GLU
1	T	693	ILE
1	T	706	LEU
1	T	713	SER
1	T	734	ARG
1	T	755	THR
1	T	769	GLU
1	T	770	LEU
1	T	778	GLU
1	T	779	LEU
1	T	793	LYS
1	T	802	LEU
1	T	806	THR
1	U	1	MET
1	U	3	THR
1	U	18	VAL
1	U	33	LYS
1	U	35	TYR
1	U	36	ILE

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Mol	Chain	Res	Type
1	U	38	GLN
1	U	41	GLU
1	U	50	MET
1	U	60	ILE
1	U	61	VAL
1	U	65	VAL
1	U	70	GLN
1	U	74	LEU
1	U	75	PHE
1	U	83	LEU
1	U	84	ARG
1	U	95	ASP
1	U	106	GLU
1	U	110	THR
1	U	119	THR
1	U	127	LEU
1	U	131	ASP
1	U	132	LYS
1	U	133	ASN
1	U	135	ASP
1	U	137	VAL
1	U	144	LEU
1	U	151	TYR
1	U	152	ILE
1	U	160	VAL
1	U	161	GLU
1	U	163	ILE
1	U	174	LEU
1	U	175	ARG
1	U	177	ARG
1	U	183	PHE
1	U	191	VAL
1	U	192	THR
1	U	196	TRP
1	U	197	LEU
1	U	199	ARG
1	U	204	TYR
1	U	205	LEU
1	U	213	LEU
1	U	221	LEU
1	U	222	THR
1	U	225	THR

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Mol	Chain	Res	Type
1	U	227	LEU
1	U	230	ARG
1	U	234	ASN
1	U	236	ARG
1	U	238	LEU
1	U	242	LEU
1	U	249	TRP
1	U	250	LEU
1	U	253	VAL
1	U	257	GLU
1	U	259	HIS
1	U	266	GLU
1	U	267	VAL
1	U	268	LEU
1	U	271	VAL
1	U	276	LEU
1	U	281	TYR
1	U	284	ILE
1	U	286	ASP
1	U	296	LEU
1	U	301	VAL
1	U	308	PHE
1	U	318	ARG
1	U	320	ILE
1	U	321	GLN
1	U	322	ASP
1	U	330	GLN
1	U	335	LYS
1	U	337	LEU
1	U	340	LEU
1	U	341	GLU
1	U	342	GLU
1	U	358	LEU
1	U	360	ARG
1	U	363	LEU
1	U	373	VAL
1	U	383	ASP
1	U	384	GLN
1	U	385	ASN
1	U	388	ILE
1	U	395	THR
1	U	407	MET

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Mol	Chain	Res	Type
1	U	408	LEU
1	U	417	LYS
1	U	421	SER
1	U	474	ARG
1	U	476	LYS
1	U	479	ARG
1	U	486	LEU
1	U	487	VAL
1	U	490	ASP
1	U	496	THR
1	U	501	SER
1	U	516	LEU
1	U	517	LEU
1	U	518	LEU
1	U	523	PHE
1	U	527	ILE
1	U	533	ASP
1	U	536	ARG
1	U	549	LEU
1	U	561	LEU
1	U	580	ARG
1	U	587	THR
1	U	621	LYS
1	U	624	ASP
1	U	648	GLN
1	U	666	THR
1	U	683	GLU
1	U	690	ARG
1	U	693	ILE
1	U	706	LEU
1	U	734	ARG
1	U	742	LEU
1	U	747	LYS
1	U	755	THR
1	U	761	ARG
1	U	770	LEU
1	U	778	GLU
1	U	779	LEU
1	U	794	LYS
1	U	802	LEU
1	U	806	THR
1	V	1	MET

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Mol	Chain	Res	Type
1	V	3	THR
1	V	8	ILE
1	V	13	TYR
1	V	18	VAL
1	V	33	LYS
1	V	35	TYR
1	V	36	ILE
1	V	38	GLN
1	V	41	GLU
1	V	50	MET
1	V	52	THR
1	V	57	HIS
1	V	60	ILE
1	V	61	VAL
1	V	63	ASN
1	V	70	GLN
1	V	74	LEU
1	V	82	ARG
1	V	83	LEU
1	V	106	GLU
1	V	110	THR
1	V	115	VAL
1	V	119	THR
1	V	123	LEU
1	V	127	LEU
1	V	131	ASP
1	V	133	ASN
1	V	135	ASP
1	V	137	VAL
1	V	144	LEU
1	V	145	PHE
1	V	151	TYR
1	V	152	ILE
1	V	155	LYS
1	V	158	GLU
1	V	160	VAL
1	V	161	GLU
1	V	163	ILE
1	V	167	VAL
1	V	175	ARG
1	V	177	ARG
1	V	183	PHE

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Mol	Chain	Res	Type
1	V	188	LYS
1	V	192	THR
1	V	197	LEU
1	V	199	ARG
1	V	201	VAL
1	V	205	LEU
1	V	208	VAL
1	V	213	LEU
1	V	221	LEU
1	V	222	THR
1	V	225	THR
1	V	227	LEU
1	V	230	ARG
1	V	234	ASN
1	V	236	ARG
1	V	238	LEU
1	V	242	LEU
1	V	243	HIS
1	V	249	TRP
1	V	253	VAL
1	V	257	GLU
1	V	259	HIS
1	V	266	GLU
1	V	268	LEU
1	V	271	VAL
1	V	276	LEU
1	V	281	TYR
1	V	286	ASP
1	V	296	LEU
1	V	301	VAL
1	V	302	VAL
1	V	308	PHE
1	V	320	ILE
1	V	321	GLN
1	V	322	ASP
1	V	330	GLN
1	V	335	LYS
1	V	340	LEU
1	V	341	GLU
1	V	342	GLU
1	V	345	SER
1	V	358	LEU

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Mol	Chain	Res	Type
1	V	363	LEU
1	V	373	VAL
1	V	380	ILE
1	V	383	ASP
1	V	384	GLN
1	V	385	ASN
1	V	388	ILE
1	V	395	THR
1	V	407	MET
1	V	417	LYS
1	V	474	ARG
1	V	479	ARG
1	V	486	LEU
1	V	487	VAL
1	V	490	ASP
1	V	496	THR
1	V	507	ARG
1	V	512	ARG
1	V	516	LEU
1	V	517	LEU
1	V	518	LEU
1	V	522	PHE
1	V	523	PHE
1	V	527	ILE
1	V	533	ASP
1	V	536	ARG
1	V	549	LEU
1	V	561	LEU
1	V	580	ARG
1	V	587	THR
1	V	621	LYS
1	V	648	GLN
1	V	666	THR
1	V	683	GLU
1	V	693	ILE
1	V	698	GLU
1	V	706	LEU
1	V	734	ARG
1	V	742	LEU
1	V	755	THR
1	V	765	VAL
1	V	769	GLU

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Mol	Chain	Res	Type
1	V	770	LEU
1	V	771	ILE
1	V	778	GLU
1	V	793	LYS
1	V	794	LYS
1	V	802	LEU
1	W	1	MET
1	W	3	THR
1	W	18	VAL
1	W	23	SER
1	W	33	LYS
1	W	36	ILE
1	W	38	GLN
1	W	50	MET
1	W	52	THR
1	W	60	ILE
1	W	61	VAL
1	W	64	PRO
1	W	70	GLN
1	W	74	LEU
1	W	75	PHE
1	W	83	LEU
1	W	84	ARG
1	W	95	ASP
1	W	104	VAL
1	W	106	GLU
1	W	114	VAL
1	W	119	THR
1	W	123	LEU
1	W	127	LEU
1	W	131	ASP
1	W	133	ASN
1	W	137	VAL
1	W	144	LEU
1	W	145	PHE
1	W	151	TYR
1	W	152	ILE
1	W	160	VAL
1	W	161	GLU
1	W	167	VAL
1	W	174	LEU
1	W	175	ARG

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Mol	Chain	Res	Type
1	W	177	ARG
1	W	183	PHE
1	W	191	VAL
1	W	197	LEU
1	W	199	ARG
1	W	205	LEU
1	W	208	VAL
1	W	213	LEU
1	W	222	THR
1	W	227	LEU
1	W	230	ARG
1	W	238	LEU
1	W	242	LEU
1	W	249	TRP
1	W	253	VAL
1	W	257	GLU
1	W	259	HIS
1	W	266	GLU
1	W	268	LEU
1	W	271	VAL
1	W	276	LEU
1	W	281	TYR
1	W	284	ILE
1	W	286	ASP
1	W	295	GLN
1	W	296	LEU
1	W	308	PHE
1	W	322	ASP
1	W	334	LEU
1	W	335	LYS
1	W	341	GLU
1	W	342	GLU
1	W	358	LEU
1	W	363	LEU
1	W	373	VAL
1	W	380	ILE
1	W	383	ASP
1	W	384	GLN
1	W	385	ASN
1	W	388	ILE
1	W	395	THR
1	W	407	MET

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Mol	Chain	Res	Type
1	W	474	ARG
1	W	479	ARG
1	W	486	LEU
1	W	490	ASP
1	W	496	THR
1	W	501	SER
1	W	516	LEU
1	W	517	LEU
1	W	522	PHE
1	W	523	PHE
1	W	528	THR
1	W	533	ASP
1	W	536	ARG
1	W	549	LEU
1	W	561	LEU
1	W	575	ILE
1	W	580	ARG
1	W	587	THR
1	W	595	SER
1	W	621	LYS
1	W	648	GLN
1	W	651	ARG
1	W	668	SER
1	W	683	GLU
1	W	685	ARG
1	W	690	ARG
1	W	742	LEU
1	W	755	THR
1	W	756	GLU
1	W	766	ARG
1	W	769	GLU
1	W	770	LEU
1	W	776	GLN
1	W	779	LEU
1	W	787	LEU
1	W	793	LYS
1	W	794	LYS
1	W	798	MET
1	W	802	LEU
1	W	810	LEU
1	X	1	MET
1	X	3	THR

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Mol	Chain	Res	Type
1	X	13	TYR
1	X	18	VAL
1	X	23	SER
1	X	33	LYS
1	X	35	TYR
1	X	36	ILE
1	X	38	GLN
1	X	41	GLU
1	X	50	MET
1	X	52	THR
1	X	57	HIS
1	X	60	ILE
1	X	61	VAL
1	X	70	GLN
1	X	74	LEU
1	X	78	THR
1	X	82	ARG
1	X	83	LEU
1	X	84	ARG
1	X	106	GLU
1	X	114	VAL
1	X	115	VAL
1	X	119	THR
1	X	127	LEU
1	X	129	PHE
1	X	131	ASP
1	X	133	ASN
1	X	135	ASP
1	X	137	VAL
1	X	138	MET
1	X	144	LEU
1	X	152	ILE
1	X	160	VAL
1	X	161	GLU
1	X	166	THR
1	X	167	VAL
1	X	169	LYS
1	X	174	LEU
1	X	175	ARG
1	X	177	ARG
1	X	183	PHE
1	X	192	THR

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Mol	Chain	Res	Type
1	X	196	TRP
1	X	197	LEU
1	X	199	ARG
1	X	205	LEU
1	X	208	VAL
1	X	213	LEU
1	X	221	LEU
1	X	222	THR
1	X	225	THR
1	X	227	LEU
1	X	230	ARG
1	X	238	LEU
1	X	242	LEU
1	X	249	TRP
1	X	254	GLN
1	X	255	ASP
1	X	257	GLU
1	X	259	HIS
1	X	266	GLU
1	X	268	LEU
1	X	271	VAL
1	X	276	LEU
1	X	281	TYR
1	X	284	ILE
1	X	286	ASP
1	X	296	LEU
1	X	302	VAL
1	X	308	PHE
1	X	320	ILE
1	X	322	ASP
1	X	332	LEU
1	X	335	LYS
1	X	340	LEU
1	X	341	GLU
1	X	342	GLU
1	X	358	LEU
1	X	363	LEU
1	X	373	VAL
1	X	380	ILE
1	X	383	ASP
1	X	384	GLN
1	X	385	ASN

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Mol	Chain	Res	Type
1	X	388	ILE
1	X	407	MET
1	X	417	LYS
1	X	474	ARG
1	X	479	ARG
1	X	486	LEU
1	X	487	VAL
1	X	490	ASP
1	X	496	THR
1	X	501	SER
1	X	512	ARG
1	X	516	LEU
1	X	517	LEU
1	X	522	PHE
1	X	523	PHE
1	X	528	THR
1	X	533	ASP
1	X	536	ARG
1	X	549	LEU
1	X	580	ARG
1	X	587	THR
1	X	595	SER
1	X	621	LYS
1	X	648	GLN
1	X	649	ARG
1	X	651	ARG
1	X	666	THR
1	X	668	SER
1	X	693	ILE
1	X	706	LEU
1	X	734	ARG
1	X	742	LEU
1	X	747	LYS
1	X	755	THR
1	X	756	GLU
1	X	766	ARG
1	X	769	GLU
1	X	770	LEU
1	X	779	LEU
1	X	793	LYS
1	X	794	LYS
1	X	802	LEU

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Mol	Chain	Res	Type
1	X	810	LEU
1	Y	1	MET
1	Y	3	THR
1	Y	18	VAL
1	Y	23	SER
1	Y	35	TYR
1	Y	36	ILE
1	Y	38	GLN
1	Y	50	MET
1	Y	60	ILE
1	Y	61	VAL
1	Y	70	GLN
1	Y	74	LEU
1	Y	78	THR
1	Y	83	LEU
1	Y	106	GLU
1	Y	114	VAL
1	Y	118	ASN
1	Y	119	THR
1	Y	127	LEU
1	Y	131	ASP
1	Y	132	LYS
1	Y	133	ASN
1	Y	135	ASP
1	Y	137	VAL
1	Y	138	MET
1	Y	144	LEU
1	Y	151	TYR
1	Y	152	ILE
1	Y	155	LYS
1	Y	160	VAL
1	Y	161	GLU
1	Y	163	ILE
1	Y	168	ILE
1	Y	174	LEU
1	Y	175	ARG
1	Y	177	ARG
1	Y	183	PHE
1	Y	188	LYS
1	Y	192	THR
1	Y	197	LEU
1	Y	199	ARG

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Mol	Chain	Res	Type
1	Y	201	VAL
1	Y	205	LEU
1	Y	208	VAL
1	Y	213	LEU
1	Y	220	ILE
1	Y	221	LEU
1	Y	222	THR
1	Y	225	THR
1	Y	230	ARG
1	Y	238	LEU
1	Y	242	LEU
1	Y	249	TRP
1	Y	250	LEU
1	Y	254	GLN
1	Y	257	GLU
1	Y	259	HIS
1	Y	266	GLU
1	Y	268	LEU
1	Y	271	VAL
1	Y	276	LEU
1	Y	281	TYR
1	Y	284	ILE
1	Y	286	ASP
1	Y	294	ASN
1	Y	295	GLN
1	Y	296	LEU
1	Y	301	VAL
1	Y	302	VAL
1	Y	308	PHE
1	Y	320	ILE
1	Y	322	ASP
1	Y	341	GLU
1	Y	342	GLU
1	Y	356	CYS
1	Y	358	LEU
1	Y	363	LEU
1	Y	373	VAL
1	Y	383	ASP
1	Y	384	GLN
1	Y	385	ASN
1	Y	407	MET
1	Y	417	LYS

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Mol	Chain	Res	Type
1	Y	474	ARG
1	Y	477	ARG
1	Y	479	ARG
1	Y	486	LEU
1	Y	490	ASP
1	Y	496	THR
1	Y	497	VAL
1	Y	501	SER
1	Y	516	LEU
1	Y	517	LEU
1	Y	522	PHE
1	Y	523	PHE
1	Y	533	ASP
1	Y	536	ARG
1	Y	549	LEU
1	Y	580	ARG
1	Y	587	THR
1	Y	595	SER
1	Y	621	LYS
1	Y	625	GLN
1	Y	648	GLN
1	Y	654	LEU
1	Y	668	SER
1	Y	691	GLN
1	Y	742	LEU
1	Y	755	THR
1	Y	756	GLU
1	Y	766	ARG
1	Y	778	GLU
1	Y	779	LEU
1	Y	793	LYS
1	Y	794	LYS
1	Y	802	LEU
1	Z	1	MET
1	Z	3	THR
1	Z	18	VAL
1	Z	23	SER
1	Z	33	LYS
1	Z	35	TYR
1	Z	36	ILE
1	Z	38	GLN
1	Z	41	GLU

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Mol	Chain	Res	Type
1	Z	50	MET
1	Z	60	ILE
1	Z	61	VAL
1	Z	63	ASN
1	Z	66	SER
1	Z	68	ASP
1	Z	70	GLN
1	Z	74	LEU
1	Z	75	PHE
1	Z	83	LEU
1	Z	90	ILE
1	Z	95	ASP
1	Z	106	GLU
1	Z	110	THR
1	Z	114	VAL
1	Z	119	THR
1	Z	127	LEU
1	Z	131	ASP
1	Z	132	LYS
1	Z	133	ASN
1	Z	135	ASP
1	Z	144	LEU
1	Z	145	PHE
1	Z	151	TYR
1	Z	152	ILE
1	Z	158	GLU
1	Z	160	VAL
1	Z	161	GLU
1	Z	169	LYS
1	Z	175	ARG
1	Z	177	ARG
1	Z	191	VAL
1	Z	192	THR
1	Z	197	LEU
1	Z	199	ARG
1	Z	201	VAL
1	Z	205	LEU
1	Z	209	PHE
1	Z	213	LEU
1	Z	221	LEU
1	Z	222	THR
1	Z	225	THR

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Mol	Chain	Res	Type
1	Z	227	LEU
1	Z	230	ARG
1	Z	236	ARG
1	Z	238	LEU
1	Z	242	LEU
1	Z	249	TRP
1	Z	250	LEU
1	Z	253	VAL
1	Z	254	GLN
1	Z	257	GLU
1	Z	259	HIS
1	Z	266	GLU
1	Z	267	VAL
1	Z	268	LEU
1	Z	270	VAL
1	Z	271	VAL
1	Z	276	LEU
1	Z	284	ILE
1	Z	286	ASP
1	Z	293	LYS
1	Z	296	LEU
1	Z	301	VAL
1	Z	308	PHE
1	Z	320	ILE
1	Z	322	ASP
1	Z	327	SER
1	Z	332	LEU
1	Z	334	LEU
1	Z	335	LYS
1	Z	341	GLU
1	Z	342	GLU
1	Z	358	LEU
1	Z	363	LEU
1	Z	373	VAL
1	Z	383	ASP
1	Z	384	GLN
1	Z	385	ASN
1	Z	388	ILE
1	Z	395	THR
1	Z	407	MET
1	Z	417	LYS
1	Z	418	GLU

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Mol	Chain	Res	Type
1	Z	474	ARG
1	Z	479	ARG
1	Z	486	LEU
1	Z	487	VAL
1	Z	490	ASP
1	Z	496	THR
1	Z	501	SER
1	Z	516	LEU
1	Z	517	LEU
1	Z	518	LEU
1	Z	523	PHE
1	Z	528	THR
1	Z	533	ASP
1	Z	536	ARG
1	Z	549	LEU
1	Z	580	ARG
1	Z	587	THR
1	Z	595	SER
1	Z	621	LYS
1	Z	648	GLN
1	Z	654	LEU
1	Z	666	THR
1	Z	668	SER
1	Z	706	LEU
1	Z	721	ASN
1	Z	734	ARG
1	Z	742	LEU
1	Z	747	LYS
1	Z	755	THR
1	Z	766	ARG
1	Z	770	LEU
1	Z	779	LEU
1	Z	793	LYS
1	Z	806	THR
1	Z	808	ARG
1	a	1	MET
1	a	3	THR
1	a	13	TYR
1	a	18	VAL
1	a	33	LYS
1	a	35	TYR
1	a	36	ILE

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Mol	Chain	Res	Type
1	a	38	GLN
1	a	50	MET
1	a	52	THR
1	a	58	TYR
1	a	63	ASN
1	a	65	VAL
1	a	70	GLN
1	a	74	LEU
1	a	83	LEU
1	a	84	ARG
1	a	90	ILE
1	a	106	GLU
1	a	114	VAL
1	a	118	ASN
1	a	119	THR
1	a	123	LEU
1	a	127	LEU
1	a	129	PHE
1	a	131	ASP
1	a	135	ASP
1	a	137	VAL
1	a	138	MET
1	a	144	LEU
1	a	145	PHE
1	a	152	ILE
1	a	156	GLU
1	a	160	VAL
1	a	161	GLU
1	a	164	GLN
1	a	175	ARG
1	a	177	ARG
1	a	183	PHE
1	a	192	THR
1	a	196	TRP
1	a	197	LEU
1	a	199	ARG
1	a	205	LEU
1	a	209	PHE
1	a	213	LEU
1	a	221	LEU
1	a	222	THR
1	a	227	LEU

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Mol	Chain	Res	Type
1	a	230	ARG
1	a	234	ASN
1	a	236	ARG
1	a	238	LEU
1	a	242	LEU
1	a	249	TRP
1	a	253	VAL
1	a	254	GLN
1	a	266	GLU
1	a	267	VAL
1	a	268	LEU
1	a	271	VAL
1	a	276	LEU
1	a	284	ILE
1	a	286	ASP
1	a	293	LYS
1	a	295	GLN
1	a	296	LEU
1	a	299	LYS
1	a	301	VAL
1	a	308	PHE
1	a	321	GLN
1	a	322	ASP
1	a	332	LEU
1	a	335	LYS
1	a	340	LEU
1	a	341	GLU
1	a	342	GLU
1	a	345	SER
1	a	358	LEU
1	a	363	LEU
1	a	373	VAL
1	a	380	ILE
1	a	383	ASP
1	a	384	GLN
1	a	385	ASN
1	a	388	ILE
1	a	395	THR
1	a	407	MET
1	a	417	LYS
1	a	424	GLU
1	a	474	ARG

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Mol	Chain	Res	Type
1	a	479	ARG
1	a	486	LEU
1	a	487	VAL
1	a	490	ASP
1	a	496	THR
1	a	497	VAL
1	a	501	SER
1	a	516	LEU
1	a	517	LEU
1	a	523	PHE
1	a	528	THR
1	a	533	ASP
1	a	536	ARG
1	a	549	LEU
1	a	580	ARG
1	a	587	THR
1	a	595	SER
1	a	621	LYS
1	a	654	LEU
1	a	666	THR
1	a	668	SER
1	a	690	ARG
1	a	692	LYS
1	a	693	ILE
1	a	706	LEU
1	a	721	ASN
1	a	742	LEU
1	a	769	GLU
1	a	770	LEU
1	a	779	LEU
1	a	787	LEU
1	a	793	LYS
1	a	802	LEU
1	a	810	LEU
1	b	1	MET
1	b	3	THR
1	b	18	VAL
1	b	33	LYS
1	b	36	ILE
1	b	38	GLN
1	b	41	GLU
1	b	50	MET

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Mol	Chain	Res	Type
1	b	52	THR
1	b	58	TYR
1	b	60	ILE
1	b	61	VAL
1	b	65	VAL
1	b	70	GLN
1	b	74	LEU
1	b	75	PHE
1	b	82	ARG
1	b	83	LEU
1	b	84	ARG
1	b	90	ILE
1	b	106	GLU
1	b	114	VAL
1	b	115	VAL
1	b	119	THR
1	b	122	HIS
1	b	127	LEU
1	b	131	ASP
1	b	135	ASP
1	b	144	LEU
1	b	145	PHE
1	b	152	ILE
1	b	160	VAL
1	b	161	GLU
1	b	163	ILE
1	b	164	GLN
1	b	169	LYS
1	b	174	LEU
1	b	175	ARG
1	b	177	ARG
1	b	183	PHE
1	b	196	TRP
1	b	197	LEU
1	b	199	ARG
1	b	201	VAL
1	b	204	TYR
1	b	205	LEU
1	b	213	LEU
1	b	217	ASP
1	b	221	LEU
1	b	222	THR

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Mol	Chain	Res	Type
1	b	227	LEU
1	b	230	ARG
1	b	234	ASN
1	b	236	ARG
1	b	238	LEU
1	b	242	LEU
1	b	249	TRP
1	b	253	VAL
1	b	254	GLN
1	b	257	GLU
1	b	259	HIS
1	b	266	GLU
1	b	268	LEU
1	b	271	VAL
1	b	276	LEU
1	b	284	ILE
1	b	286	ASP
1	b	296	LEU
1	b	301	VAL
1	b	308	PHE
1	b	322	ASP
1	b	328	GLU
1	b	334	LEU
1	b	335	LYS
1	b	341	GLU
1	b	342	GLU
1	b	356	CYS
1	b	358	LEU
1	b	363	LEU
1	b	373	VAL
1	b	380	ILE
1	b	384	GLN
1	b	385	ASN
1	b	407	MET
1	b	417	LYS
1	b	424	GLU
1	b	452	ARG
1	b	474	ARG
1	b	477	ARG
1	b	479	ARG
1	b	486	LEU
1	b	487	VAL

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Mol	Chain	Res	Type
1	b	490	ASP
1	b	496	THR
1	b	501	SER
1	b	512	ARG
1	b	516	LEU
1	b	517	LEU
1	b	518	LEU
1	b	523	PHE
1	b	528	THR
1	b	533	ASP
1	b	536	ARG
1	b	549	LEU
1	b	552	ARG
1	b	580	ARG
1	b	585	SER
1	b	587	THR
1	b	595	SER
1	b	601	MET
1	b	621	LYS
1	b	642	SER
1	b	648	GLN
1	b	654	LEU
1	b	666	THR
1	b	668	SER
1	b	670	GLU
1	b	683	GLU
1	b	692	LYS
1	b	706	LEU
1	b	741	VAL
1	b	747	LYS
1	b	755	THR
1	b	770	LEU
1	b	778	GLU
1	b	779	LEU
1	b	790	VAL
1	b	793	LYS
1	b	806	THR
1	c	1	MET
1	c	3	THR
1	c	18	VAL
1	c	23	SER
1	c	33	LYS

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Mol	Chain	Res	Type
1	c	35	TYR
1	c	36	ILE
1	c	38	GLN
1	c	41	GLU
1	c	50	MET
1	c	60	ILE
1	c	63	ASN
1	c	65	VAL
1	c	70	GLN
1	c	74	LEU
1	c	75	PHE
1	c	83	LEU
1	c	84	ARG
1	c	95	ASP
1	c	104	VAL
1	c	106	GLU
1	c	110	THR
1	c	114	VAL
1	c	115	VAL
1	c	119	THR
1	c	127	LEU
1	c	131	ASP
1	c	132	LYS
1	c	133	ASN
1	c	135	ASP
1	c	137	VAL
1	c	144	LEU
1	c	151	TYR
1	c	160	VAL
1	c	161	GLU
1	c	163	ILE
1	c	164	GLN
1	c	175	ARG
1	c	177	ARG
1	c	179	ARG
1	c	183	PHE
1	c	188	LYS
1	c	191	VAL
1	c	192	THR
1	c	197	LEU
1	c	199	ARG
1	c	205	LEU

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Mol	Chain	Res	Type
1	c	213	LEU
1	c	219	VAL
1	c	221	LEU
1	c	222	THR
1	c	227	LEU
1	c	230	ARG
1	c	234	ASN
1	c	238	LEU
1	c	242	LEU
1	c	249	TRP
1	c	253	VAL
1	c	257	GLU
1	c	266	GLU
1	c	267	VAL
1	c	268	LEU
1	c	271	VAL
1	c	276	LEU
1	c	284	ILE
1	c	286	ASP
1	c	296	LEU
1	c	299	LYS
1	c	301	VAL
1	c	308	PHE
1	c	310	LEU
1	c	320	ILE
1	c	322	ASP
1	c	334	LEU
1	c	335	LYS
1	c	341	GLU
1	c	342	GLU
1	c	345	SER
1	c	356	CYS
1	c	358	LEU
1	c	373	VAL
1	c	380	ILE
1	c	383	ASP
1	c	384	GLN
1	c	385	ASN
1	c	388	ILE
1	c	395	THR
1	c	407	MET
1	c	417	LYS

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Mol	Chain	Res	Type
1	c	418	GLU
1	c	456	ARG
1	c	474	ARG
1	c	479	ARG
1	c	486	LEU
1	c	487	VAL
1	c	490	ASP
1	c	496	THR
1	c	516	LEU
1	c	517	LEU
1	c	518	LEU
1	c	523	PHE
1	c	524	THR
1	c	528	THR
1	c	533	ASP
1	c	536	ARG
1	c	549	LEU
1	c	552	ARG
1	c	580	ARG
1	c	587	THR
1	c	595	SER
1	c	621	LYS
1	c	642	SER
1	c	648	GLN
1	c	654	LEU
1	c	666	THR
1	c	668	SER
1	c	683	GLU
1	c	690	ARG
1	c	692	LYS
1	c	706	LEU
1	c	721	ASN
1	c	729	ARG
1	c	747	LYS
1	c	755	THR
1	c	770	LEU
1	c	778	GLU
1	c	779	LEU
1	c	787	LEU
1	c	793	LYS
1	c	806	THR
1	c	808	ARG

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Mol	Chain	Res	Type
1	c	809	ASP
1	d	1	MET
1	d	3	THR
1	d	18	VAL
1	d	33	LYS
1	d	35	TYR
1	d	36	ILE
1	d	38	GLN
1	d	41	GLU
1	d	50	MET
1	d	57	HIS
1	d	60	ILE
1	d	63	ASN
1	d	65	VAL
1	d	70	GLN
1	d	74	LEU
1	d	75	PHE
1	d	82	ARG
1	d	83	LEU
1	d	84	ARG
1	d	106	GLU
1	d	108	ASP
1	d	114	VAL
1	d	115	VAL
1	d	118	ASN
1	d	119	THR
1	d	127	LEU
1	d	131	ASP
1	d	132	LYS
1	d	133	ASN
1	d	144	LEU
1	d	151	TYR
1	d	152	ILE
1	d	156	GLU
1	d	158	GLU
1	d	160	VAL
1	d	161	GLU
1	d	167	VAL
1	d	175	ARG
1	d	177	ARG
1	d	183	PHE
1	d	192	THR

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Mol	Chain	Res	Type
1	d	197	LEU
1	d	199	ARG
1	d	201	VAL
1	d	205	LEU
1	d	213	LEU
1	d	221	LEU
1	d	222	THR
1	d	225	THR
1	d	227	LEU
1	d	230	ARG
1	d	236	ARG
1	d	238	LEU
1	d	242	LEU
1	d	245	THR
1	d	249	TRP
1	d	253	VAL
1	d	257	GLU
1	d	259	HIS
1	d	262	ASP
1	d	266	GLU
1	d	268	LEU
1	d	271	VAL
1	d	276	LEU
1	d	284	ILE
1	d	286	ASP
1	d	293	LYS
1	d	296	LEU
1	d	301	VAL
1	d	308	PHE
1	d	320	ILE
1	d	322	ASP
1	d	328	GLU
1	d	334	LEU
1	d	341	GLU
1	d	342	GLU
1	d	356	CYS
1	d	358	LEU
1	d	359	ILE
1	d	363	LEU
1	d	373	VAL
1	d	383	ASP
1	d	384	GLN

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Mol	Chain	Res	Type
1	d	385	ASN
1	d	407	MET
1	d	417	LYS
1	d	418	GLU
1	d	474	ARG
1	d	479	ARG
1	d	486	LEU
1	d	487	VAL
1	d	490	ASP
1	d	496	THR
1	d	497	VAL
1	d	504	ARG
1	d	507	ARG
1	d	516	LEU
1	d	517	LEU
1	d	518	LEU
1	d	523	PHE
1	d	529	ILE
1	d	533	ASP
1	d	536	ARG
1	d	549	LEU
1	d	580	ARG
1	d	587	THR
1	d	595	SER
1	d	604	PHE
1	d	621	LYS
1	d	648	GLN
1	d	666	THR
1	d	668	SER
1	d	683	GLU
1	d	693	ILE
1	d	706	LEU
1	d	755	THR
1	d	770	LEU
1	d	779	LEU
1	d	785	GLN
1	d	793	LYS
1	d	806	THR
1	e	1	MET
1	e	3	THR
1	e	18	VAL
1	e	35	TYR

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Mol	Chain	Res	Type
1	e	36	ILE
1	e	38	GLN
1	e	41	GLU
1	e	50	MET
1	e	52	THR
1	e	56	ARG
1	e	60	ILE
1	e	61	VAL
1	e	65	VAL
1	e	70	GLN
1	e	74	LEU
1	e	75	PHE
1	e	83	LEU
1	e	84	ARG
1	e	90	ILE
1	e	95	ASP
1	e	106	GLU
1	e	108	ASP
1	e	110	THR
1	e	114	VAL
1	e	119	THR
1	e	124	LYS
1	e	127	LEU
1	e	131	ASP
1	e	132	LYS
1	e	133	ASN
1	e	135	ASP
1	e	144	LEU
1	e	151	TYR
1	e	156	GLU
1	e	160	VAL
1	e	161	GLU
1	e	163	ILE
1	e	169	LYS
1	e	175	ARG
1	e	177	ARG
1	e	183	PHE
1	e	192	THR
1	e	197	LEU
1	e	199	ARG
1	e	201	VAL
1	e	205	LEU

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Mol	Chain	Res	Type
1	e	208	VAL
1	e	213	LEU
1	e	221	LEU
1	e	222	THR
1	e	225	THR
1	e	227	LEU
1	e	230	ARG
1	e	242	LEU
1	e	245	THR
1	e	249	TRP
1	e	250	LEU
1	e	253	VAL
1	e	257	GLU
1	e	259	HIS
1	e	266	GLU
1	e	268	LEU
1	e	271	VAL
1	e	276	LEU
1	e	281	TYR
1	e	284	ILE
1	e	286	ASP
1	e	295	GLN
1	e	296	LEU
1	e	301	VAL
1	e	308	PHE
1	e	320	ILE
1	e	322	ASP
1	e	335	LYS
1	e	341	GLU
1	e	342	GLU
1	e	345	SER
1	e	347	GLU
1	e	356	CYS
1	e	358	LEU
1	e	359	ILE
1	e	363	LEU
1	e	373	VAL
1	e	383	ASP
1	e	384	GLN
1	e	385	ASN
1	e	407	MET
1	e	417	LYS

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Mol	Chain	Res	Type
1	e	418	GLU
1	e	420	PRO
1	e	421	SER
1	e	452	ARG
1	e	474	ARG
1	e	479	ARG
1	e	486	LEU
1	e	487	VAL
1	e	490	ASP
1	e	516	LEU
1	e	517	LEU
1	e	518	LEU
1	e	523	PHE
1	e	528	THR
1	e	533	ASP
1	e	549	LEU
1	e	580	ARG
1	e	587	THR
1	e	599	ILE
1	e	601	MET
1	e	621	LYS
1	e	654	LEU
1	e	666	THR
1	e	683	GLU
1	e	689	GLU
1	e	692	LYS
1	e	693	ILE
1	e	721	ASN
1	e	742	LEU
1	e	755	THR
1	e	756	GLU
1	e	770	LEU
1	e	778	GLU
1	e	779	LEU
1	e	787	LEU
1	e	793	LYS
1	e	802	LEU
1	e	806	THR
1	e	807	ILE
1	e	809	ASP
1	e	810	LEU
1	f	1	MET

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Mol	Chain	Res	Type
1	f	3	THR
1	f	18	VAL
1	f	23	SER
1	f	33	LYS
1	f	35	TYR
1	f	36	ILE
1	f	38	GLN
1	f	50	MET
1	f	57	HIS
1	f	60	ILE
1	f	61	VAL
1	f	65	VAL
1	f	70	GLN
1	f	74	LEU
1	f	83	LEU
1	f	84	ARG
1	f	90	ILE
1	f	106	GLU
1	f	108	ASP
1	f	114	VAL
1	f	115	VAL
1	f	119	THR
1	f	127	LEU
1	f	131	ASP
1	f	132	LYS
1	f	133	ASN
1	f	135	ASP
1	f	137	VAL
1	f	138	MET
1	f	144	LEU
1	f	145	PHE
1	f	151	TYR
1	f	152	ILE
1	f	155	LYS
1	f	156	GLU
1	f	158	GLU
1	f	160	VAL
1	f	161	GLU
1	f	163	ILE
1	f	175	ARG
1	f	177	ARG
1	f	192	THR

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Mol	Chain	Res	Type
1	f	197	LEU
1	f	199	ARG
1	f	205	LEU
1	f	213	LEU
1	f	217	ASP
1	f	221	LEU
1	f	222	THR
1	f	225	THR
1	f	230	ARG
1	f	234	ASN
1	f	236	ARG
1	f	238	LEU
1	f	242	LEU
1	f	249	TRP
1	f	253	VAL
1	f	254	GLN
1	f	257	GLU
1	f	266	GLU
1	f	268	LEU
1	f	271	VAL
1	f	276	LEU
1	f	284	ILE
1	f	286	ASP
1	f	296	LEU
1	f	301	VAL
1	f	308	PHE
1	f	310	LEU
1	f	318	ARG
1	f	321	GLN
1	f	322	ASP
1	f	327	SER
1	f	334	LEU
1	f	335	LYS
1	f	337	LEU
1	f	340	LEU
1	f	341	GLU
1	f	342	GLU
1	f	347	GLU
1	f	358	LEU
1	f	359	ILE
1	f	363	LEU
1	f	373	VAL

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Mol	Chain	Res	Type
1	f	380	ILE
1	f	383	ASP
1	f	384	GLN
1	f	385	ASN
1	f	388	ILE
1	f	407	MET
1	f	417	LYS
1	f	418	GLU
1	f	452	ARG
1	f	456	ARG
1	f	474	ARG
1	f	479	ARG
1	f	486	LEU
1	f	487	VAL
1	f	490	ASP
1	f	496	THR
1	f	501	SER
1	f	516	LEU
1	f	517	LEU
1	f	518	LEU
1	f	539	LEU
1	f	549	LEU
1	f	580	ARG
1	f	587	THR
1	f	595	SER
1	f	621	LYS
1	f	642	SER
1	f	658	VAL
1	f	666	THR
1	f	683	GLU
1	f	692	LYS
1	f	698	GLU
1	f	706	LEU
1	f	742	LEU
1	f	755	THR
1	f	770	LEU
1	f	779	LEU
1	f	790	VAL
1	f	793	LYS
1	f	799	THR
1	f	802	LEU
1	f	806	THR

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Mol	Chain	Res	Type
1	g	1	MET
1	g	3	THR
1	g	13	TYR
1	g	18	VAL
1	g	33	LYS
1	g	36	ILE
1	g	38	GLN
1	g	50	MET
1	g	52	THR
1	g	57	HIS
1	g	60	ILE
1	g	63	ASN
1	g	65	VAL
1	g	70	GLN
1	g	74	LEU
1	g	75	PHE
1	g	83	LEU
1	g	84	ARG
1	g	90	ILE
1	g	95	ASP
1	g	106	GLU
1	g	108	ASP
1	g	114	VAL
1	g	119	THR
1	g	127	LEU
1	g	131	ASP
1	g	135	ASP
1	g	137	VAL
1	g	144	LEU
1	g	145	PHE
1	g	151	TYR
1	g	152	ILE
1	g	156	GLU
1	g	160	VAL
1	g	161	GLU
1	g	166	THR
1	g	174	LEU
1	g	175	ARG
1	g	177	ARG
1	g	183	PHE
1	g	191	VAL
1	g	192	THR

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Mol	Chain	Res	Type
1	g	197	LEU
1	g	199	ARG
1	g	204	TYR
1	g	205	LEU
1	g	213	LEU
1	g	221	LEU
1	g	222	THR
1	g	225	THR
1	g	227	LEU
1	g	230	ARG
1	g	234	ASN
1	g	236	ARG
1	g	238	LEU
1	g	242	LEU
1	g	249	TRP
1	g	253	VAL
1	g	257	GLU
1	g	259	HIS
1	g	262	ASP
1	g	266	GLU
1	g	268	LEU
1	g	271	VAL
1	g	275	THR
1	g	276	LEU
1	g	281	TYR
1	g	284	ILE
1	g	286	ASP
1	g	293	LYS
1	g	296	LEU
1	g	299	LYS
1	g	301	VAL
1	g	308	PHE
1	g	318	ARG
1	g	320	ILE
1	g	321	GLN
1	g	322	ASP
1	g	335	LYS
1	g	340	LEU
1	g	341	GLU
1	g	342	GLU
1	g	358	LEU
1	g	359	ILE

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Mol	Chain	Res	Type
1	g	363	LEU
1	g	373	VAL
1	g	380	ILE
1	g	383	ASP
1	g	385	ASN
1	g	388	ILE
1	g	395	THR
1	g	407	MET
1	g	417	LYS
1	g	474	ARG
1	g	476	LYS
1	g	479	ARG
1	g	486	LEU
1	g	487	VAL
1	g	490	ASP
1	g	496	THR
1	g	516	LEU
1	g	517	LEU
1	g	518	LEU
1	g	522	PHE
1	g	523	PHE
1	g	533	ASP
1	g	536	ARG
1	g	539	LEU
1	g	549	LEU
1	g	580	ARG
1	g	587	THR
1	g	595	SER
1	g	621	LYS
1	g	625	GLN
1	g	648	GLN
1	g	654	LEU
1	g	658	VAL
1	g	666	THR
1	g	668	SER
1	g	683	GLU
1	g	690	ARG
1	g	693	ILE
1	g	742	LEU
1	g	760	GLU
1	g	770	LEU
1	g	779	LEU

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Mol	Chain	Res	Type
1	g	790	VAL
1	g	793	LYS
1	g	799	THR
1	g	802	LEU
1	h	1	MET
1	h	3	THR
1	h	18	VAL
1	h	33	LYS
1	h	35	TYR
1	h	36	ILE
1	h	38	GLN
1	h	42	ARG
1	h	50	MET
1	h	52	THR
1	h	60	ILE
1	h	61	VAL
1	h	63	ASN
1	h	65	VAL
1	h	70	GLN
1	h	74	LEU
1	h	82	ARG
1	h	83	LEU
1	h	90	ILE
1	h	95	ASP
1	h	106	GLU
1	h	114	VAL
1	h	119	THR
1	h	127	LEU
1	h	131	ASP
1	h	132	LYS
1	h	133	ASN
1	h	135	ASP
1	h	138	MET
1	h	144	LEU
1	h	145	PHE
1	h	151	TYR
1	h	152	ILE
1	h	158	GLU
1	h	160	VAL
1	h	161	GLU
1	h	163	ILE
1	h	166	THR

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Mol	Chain	Res	Type
1	h	175	ARG
1	h	177	ARG
1	h	183	PHE
1	h	191	VAL
1	h	192	THR
1	h	197	LEU
1	h	199	ARG
1	h	204	TYR
1	h	205	LEU
1	h	213	LEU
1	h	221	LEU
1	h	222	THR
1	h	225	THR
1	h	227	LEU
1	h	230	ARG
1	h	234	ASN
1	h	236	ARG
1	h	238	LEU
1	h	242	LEU
1	h	249	TRP
1	h	250	LEU
1	h	253	VAL
1	h	257	GLU
1	h	266	GLU
1	h	268	LEU
1	h	276	LEU
1	h	281	TYR
1	h	284	ILE
1	h	286	ASP
1	h	296	LEU
1	h	301	VAL
1	h	306	LYS
1	h	308	PHE
1	h	310	LEU
1	h	320	ILE
1	h	322	ASP
1	h	330	GLN
1	h	334	LEU
1	h	335	LYS
1	h	341	GLU
1	h	342	GLU
1	h	345	SER

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Mol	Chain	Res	Type
1	h	347	GLU
1	h	358	LEU
1	h	359	ILE
1	h	360	ARG
1	h	363	LEU
1	h	373	VAL
1	h	380	ILE
1	h	384	GLN
1	h	385	ASN
1	h	407	MET
1	h	417	LYS
1	h	474	ARG
1	h	479	ARG
1	h	486	LEU
1	h	487	VAL
1	h	490	ASP
1	h	496	THR
1	h	507	ARG
1	h	516	LEU
1	h	517	LEU
1	h	518	LEU
1	h	522	PHE
1	h	523	PHE
1	h	536	ARG
1	h	549	LEU
1	h	580	ARG
1	h	585	SER
1	h	587	THR
1	h	595	SER
1	h	621	LYS
1	h	625	GLN
1	h	648	GLN
1	h	662	ILE
1	h	666	THR
1	h	668	SER
1	h	683	GLU
1	h	688	LEU
1	h	690	ARG
1	h	706	LEU
1	h	747	LYS
1	h	755	THR
1	h	760	GLU

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Mol	Chain	Res	Type
1	h	769	GLU
1	h	770	LEU
1	h	779	LEU
1	h	793	LYS
1	h	794	LYS
1	h	802	LEU
1	i	1	MET
1	i	3	THR
1	i	18	VAL
1	i	36	ILE
1	i	38	GLN
1	i	50	MET
1	i	60	ILE
1	i	61	VAL
1	i	63	ASN
1	i	65	VAL
1	i	70	GLN
1	i	74	LEU
1	i	80	GLN
1	i	83	LEU
1	i	84	ARG
1	i	95	ASP
1	i	106	GLU
1	i	108	ASP
1	i	110	THR
1	i	119	THR
1	i	127	LEU
1	i	131	ASP
1	i	132	LYS
1	i	133	ASN
1	i	137	VAL
1	i	144	LEU
1	i	145	PHE
1	i	151	TYR
1	i	152	ILE
1	i	156	GLU
1	i	158	GLU
1	i	160	VAL
1	i	161	GLU
1	i	163	ILE
1	i	167	VAL
1	i	174	LEU

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Mol	Chain	Res	Type
1	i	175	ARG
1	i	177	ARG
1	i	183	PHE
1	i	192	THR
1	i	196	TRP
1	i	197	LEU
1	i	199	ARG
1	i	201	VAL
1	i	205	LEU
1	i	213	LEU
1	i	221	LEU
1	i	222	THR
1	i	225	THR
1	i	227	LEU
1	i	230	ARG
1	i	234	ASN
1	i	236	ARG
1	i	238	LEU
1	i	242	LEU
1	i	249	TRP
1	i	253	VAL
1	i	257	GLU
1	i	259	HIS
1	i	266	GLU
1	i	268	LEU
1	i	271	VAL
1	i	276	LEU
1	i	281	TYR
1	i	284	ILE
1	i	286	ASP
1	i	295	GLN
1	i	296	LEU
1	i	301	VAL
1	i	308	PHE
1	i	310	LEU
1	i	318	ARG
1	i	320	ILE
1	i	322	ASP
1	i	330	GLN
1	i	332	LEU
1	i	335	LYS
1	i	340	LEU

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Mol	Chain	Res	Type
1	i	341	GLU
1	i	342	GLU
1	i	345	SER
1	i	347	GLU
1	i	356	CYS
1	i	358	LEU
1	i	359	ILE
1	i	363	LEU
1	i	380	ILE
1	i	383	ASP
1	i	384	GLN
1	i	385	ASN
1	i	388	ILE
1	i	393	VAL
1	i	407	MET
1	i	417	LYS
1	i	474	ARG
1	i	479	ARG
1	i	486	LEU
1	i	487	VAL
1	i	496	THR
1	i	516	LEU
1	i	517	LEU
1	i	518	LEU
1	i	533	ASP
1	i	536	ARG
1	i	539	LEU
1	i	543	TYR
1	i	549	LEU
1	i	580	ARG
1	i	587	THR
1	i	595	SER
1	i	621	LYS
1	i	625	GLN
1	i	633	LEU
1	i	648	GLN
1	i	654	LEU
1	i	666	THR
1	i	668	SER
1	i	683	GLU
1	i	698	GLU
1	i	706	LEU

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Mol	Chain	Res	Type
1	i	721	ASN
1	i	755	THR
1	i	761	ARG
1	i	766	ARG
1	i	770	LEU
1	i	779	LEU
1	i	790	VAL
1	i	793	LYS
1	i	794	LYS
1	i	802	LEU
1	j	1	MET
1	j	3	THR
1	j	8	ILE
1	j	18	VAL
1	j	33	LYS
1	j	35	TYR
1	j	36	ILE
1	j	38	GLN
1	j	50	MET
1	j	52	THR
1	j	60	ILE
1	j	65	VAL
1	j	70	GLN
1	j	74	LEU
1	j	75	PHE
1	j	83	LEU
1	j	84	ARG
1	j	104	VAL
1	j	106	GLU
1	j	107	LYS
1	j	108	ASP
1	j	114	VAL
1	j	119	THR
1	j	127	LEU
1	j	131	ASP
1	j	133	ASN
1	j	137	VAL
1	j	144	LEU
1	j	145	PHE
1	j	151	TYR
1	j	152	ILE
1	j	158	GLU

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Mol	Chain	Res	Type
1	j	160	VAL
1	j	161	GLU
1	j	163	ILE
1	j	167	VAL
1	j	174	LEU
1	j	175	ARG
1	j	177	ARG
1	j	179	ARG
1	j	183	PHE
1	j	192	THR
1	j	196	TRP
1	j	197	LEU
1	j	199	ARG
1	j	201	VAL
1	j	204	TYR
1	j	205	LEU
1	j	209	PHE
1	j	213	LEU
1	j	222	THR
1	j	225	THR
1	j	227	LEU
1	j	230	ARG
1	j	234	ASN
1	j	238	LEU
1	j	242	LEU
1	j	253	VAL
1	j	257	GLU
1	j	259	HIS
1	j	266	GLU
1	j	267	VAL
1	j	268	LEU
1	j	271	VAL
1	j	276	LEU
1	j	286	ASP
1	j	296	LEU
1	j	301	VAL
1	j	302	VAL
1	j	307	SER
1	j	308	PHE
1	j	310	LEU
1	j	315	ARG
1	j	320	ILE

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Mol	Chain	Res	Type
1	j	322	ASP
1	j	335	LYS
1	j	341	GLU
1	j	342	GLU
1	j	358	LEU
1	j	359	ILE
1	j	363	LEU
1	j	380	ILE
1	j	383	ASP
1	j	384	GLN
1	j	385	ASN
1	j	395	THR
1	j	407	MET
1	j	417	LYS
1	j	474	ARG
1	j	479	ARG
1	j	486	LEU
1	j	487	VAL
1	j	496	THR
1	j	516	LEU
1	j	517	LEU
1	j	533	ASP
1	j	536	ARG
1	j	549	LEU
1	j	561	LEU
1	j	580	ARG
1	j	587	THR
1	j	595	SER
1	j	621	LYS
1	j	625	GLN
1	j	648	GLN
1	j	666	THR
1	j	668	SER
1	j	685	ARG
1	j	688	LEU
1	j	690	ARG
1	j	692	LYS
1	j	698	GLU
1	j	706	LEU
1	j	742	LEU
1	j	747	LYS
1	j	755	THR

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Mol	Chain	Res	Type
1	j	768	MET
1	j	770	LEU
1	j	778	GLU
1	j	779	LEU
1	j	793	LYS
1	j	794	LYS
1	j	802	LEU
1	k	1	MET
1	k	3	THR
1	k	7	ILE
1	k	8	ILE
1	k	18	VAL
1	k	35	TYR
1	k	36	ILE
1	k	38	GLN
1	k	50	MET
1	k	58	TYR
1	k	60	ILE
1	k	61	VAL
1	k	65	VAL
1	k	70	GLN
1	k	74	LEU
1	k	75	PHE
1	k	83	LEU
1	k	90	ILE
1	k	104	VAL
1	k	108	ASP
1	k	110	THR
1	k	114	VAL
1	k	118	ASN
1	k	119	THR
1	k	124	LYS
1	k	127	LEU
1	k	131	ASP
1	k	132	LYS
1	k	133	ASN
1	k	135	ASP
1	k	138	MET
1	k	144	LEU
1	k	145	PHE
1	k	151	TYR
1	k	152	ILE

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Mol	Chain	Res	Type
1	k	156	GLU
1	k	158	GLU
1	k	160	VAL
1	k	161	GLU
1	k	163	ILE
1	k	167	VAL
1	k	174	LEU
1	k	175	ARG
1	k	177	ARG
1	k	192	THR
1	k	197	LEU
1	k	199	ARG
1	k	201	VAL
1	k	205	LEU
1	k	213	LEU
1	k	221	LEU
1	k	222	THR
1	k	225	THR
1	k	227	LEU
1	k	230	ARG
1	k	238	LEU
1	k	242	LEU
1	k	249	TRP
1	k	250	LEU
1	k	253	VAL
1	k	257	GLU
1	k	259	HIS
1	k	262	ASP
1	k	266	GLU
1	k	267	VAL
1	k	268	LEU
1	k	271	VAL
1	k	276	LEU
1	k	286	ASP
1	k	295	GLN
1	k	296	LEU
1	k	299	LYS
1	k	301	VAL
1	k	307	SER
1	k	308	PHE
1	k	320	ILE
1	k	322	ASP

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Mol	Chain	Res	Type
1	k	328	GLU
1	k	335	LYS
1	k	340	LEU
1	k	341	GLU
1	k	342	GLU
1	k	356	CYS
1	k	358	LEU
1	k	363	LEU
1	k	373	VAL
1	k	380	ILE
1	k	383	ASP
1	k	384	GLN
1	k	385	ASN
1	k	402	ILE
1	k	407	MET
1	k	417	LYS
1	k	424	GLU
1	k	449	SER
1	k	474	ARG
1	k	479	ARG
1	k	486	LEU
1	k	487	VAL
1	k	490	ASP
1	k	495	PHE
1	k	496	THR
1	k	501	SER
1	k	516	LEU
1	k	517	LEU
1	k	518	LEU
1	k	533	ASP
1	k	536	ARG
1	k	549	LEU
1	k	580	ARG
1	k	587	THR
1	k	595	SER
1	k	621	LYS
1	k	625	GLN
1	k	648	GLN
1	k	654	LEU
1	k	666	THR
1	k	668	SER
1	k	679	ARG

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Mol	Chain	Res	Type
1	k	692	LYS
1	k	706	LEU
1	k	729	ARG
1	k	747	LYS
1	k	755	THR
1	k	765	VAL
1	k	770	LEU
1	k	779	LEU
1	k	787	LEU
1	k	793	LYS
1	k	794	LYS
1	k	802	LEU
1	k	810	LEU
1	l	1	MET
1	l	3	THR
1	l	8	ILE
1	l	18	VAL
1	l	35	TYR
1	l	36	ILE
1	l	38	GLN
1	l	41	GLU
1	l	50	MET
1	l	57	HIS
1	l	60	ILE
1	l	61	VAL
1	l	70	GLN
1	l	74	LEU
1	l	75	PHE
1	l	83	LEU
1	l	84	ARG
1	l	104	VAL
1	l	110	THR
1	l	114	VAL
1	l	119	THR
1	l	127	LEU
1	l	131	ASP
1	l	133	ASN
1	l	135	ASP
1	l	137	VAL
1	l	138	MET
1	l	141	ASP
1	l	144	LEU

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Mol	Chain	Res	Type
1	1	152	ILE
1	1	160	VAL
1	1	161	GLU
1	1	163	ILE
1	1	168	ILE
1	1	174	LEU
1	1	175	ARG
1	1	177	ARG
1	1	183	PHE
1	1	191	VAL
1	1	197	LEU
1	1	199	ARG
1	1	201	VAL
1	1	205	LEU
1	1	208	VAL
1	1	213	LEU
1	1	221	LEU
1	1	222	THR
1	1	227	LEU
1	1	230	ARG
1	1	238	LEU
1	1	242	LEU
1	1	249	TRP
1	1	250	LEU
1	1	253	VAL
1	1	254	GLN
1	1	257	GLU
1	1	266	GLU
1	1	268	LEU
1	1	271	VAL
1	1	276	LEU
1	1	286	ASP
1	1	295	GLN
1	1	296	LEU
1	1	301	VAL
1	1	308	PHE
1	1	320	ILE
1	1	322	ASP
1	1	328	GLU
1	1	334	LEU
1	1	335	LYS
1	1	341	GLU

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Mol	Chain	Res	Type
1	1	342	GLU
1	1	347	GLU
1	1	356	CYS
1	1	358	LEU
1	1	359	ILE
1	1	363	LEU
1	1	380	ILE
1	1	383	ASP
1	1	384	GLN
1	1	385	ASN
1	1	395	THR
1	1	407	MET
1	1	424	GLU
1	1	425	GLU
1	1	474	ARG
1	1	479	ARG
1	1	486	LEU
1	1	487	VAL
1	1	496	THR
1	1	516	LEU
1	1	517	LEU
1	1	523	PHE
1	1	533	ASP
1	1	536	ARG
1	1	549	LEU
1	1	580	ARG
1	1	587	THR
1	1	595	SER
1	1	621	LYS
1	1	633	LEU
1	1	648	GLN
1	1	651	ARG
1	1	654	LEU
1	1	666	THR
1	1	668	SER
1	1	683	GLU
1	1	698	GLU
1	1	706	LEU
1	1	742	LEU
1	1	747	LYS
1	1	755	THR
1	1	765	VAL

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Mol	Chain	Res	Type
1	l	766	ARG
1	l	770	LEU
1	l	779	LEU
1	l	793	LYS
1	l	794	LYS
1	l	798	MET
1	l	802	LEU
1	l	808	ARG
1	l	809	ASP
1	m	1	MET
1	m	3	THR
1	m	8	ILE
1	m	18	VAL
1	m	23	SER
1	m	33	LYS
1	m	35	TYR
1	m	36	ILE
1	m	38	GLN
1	m	50	MET
1	m	57	HIS
1	m	60	ILE
1	m	61	VAL
1	m	63	ASN
1	m	70	GLN
1	m	74	LEU
1	m	75	PHE
1	m	83	LEU
1	m	90	ILE
1	m	95	ASP
1	m	110	THR
1	m	114	VAL
1	m	119	THR
1	m	127	LEU
1	m	131	ASP
1	m	133	ASN
1	m	135	ASP
1	m	137	VAL
1	m	144	LEU
1	m	151	TYR
1	m	152	ILE
1	m	160	VAL
1	m	161	GLU

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Mol	Chain	Res	Type
1	m	163	ILE
1	m	166	THR
1	m	174	LEU
1	m	175	ARG
1	m	177	ARG
1	m	183	PHE
1	m	196	TRP
1	m	197	LEU
1	m	205	LEU
1	m	213	LEU
1	m	217	ASP
1	m	219	VAL
1	m	222	THR
1	m	230	ARG
1	m	234	ASN
1	m	238	LEU
1	m	242	LEU
1	m	249	TRP
1	m	250	LEU
1	m	253	VAL
1	m	254	GLN
1	m	257	GLU
1	m	266	GLU
1	m	267	VAL
1	m	268	LEU
1	m	271	VAL
1	m	274	THR
1	m	276	LEU
1	m	286	ASP
1	m	296	LEU
1	m	302	VAL
1	m	308	PHE
1	m	320	ILE
1	m	322	ASP
1	m	328	GLU
1	m	334	LEU
1	m	341	GLU
1	m	342	GLU
1	m	347	GLU
1	m	356	CYS
1	m	358	LEU
1	m	359	ILE

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Mol	Chain	Res	Type
1	m	363	LEU
1	m	384	GLN
1	m	385	ASN
1	m	388	ILE
1	m	402	ILE
1	m	407	MET
1	m	417	LYS
1	m	420	PRO
1	m	456	ARG
1	m	474	ARG
1	m	479	ARG
1	m	481	VAL
1	m	486	LEU
1	m	487	VAL
1	m	490	ASP
1	m	496	THR
1	m	501	SER
1	m	512	ARG
1	m	516	LEU
1	m	517	LEU
1	m	518	LEU
1	m	523	PHE
1	m	533	ASP
1	m	536	ARG
1	m	549	LEU
1	m	580	ARG
1	m	585	SER
1	m	587	THR
1	m	621	LYS
1	m	625	GLN
1	m	648	GLN
1	m	651	ARG
1	m	666	THR
1	m	668	SER
1	m	683	GLU
1	m	706	LEU
1	m	747	LYS
1	m	755	THR
1	m	769	GLU
1	m	770	LEU
1	m	778	GLU
1	m	779	LEU

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Mol	Chain	Res	Type
1	m	782	SER
1	m	793	LYS
1	m	794	LYS
1	m	806	THR
1	m	810	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (645) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	ASN
1	A	24	ASN
1	A	40	ASN
1	A	70	GLN
1	A	118	ASN
1	A	122	HIS
1	A	164	GLN
1	A	234	ASN
1	A	254	GLN
1	A	280	HIS
1	A	509	HIS
1	A	534	HIS
1	A	648	GLN
1	A	696	GLN
1	A	776	GLN
1	B	17	HIS
1	B	22	ASN
1	B	24	ASN
1	B	40	ASN
1	B	70	GLN
1	B	118	ASN
1	B	234	ASN
1	B	254	GLN
1	B	329	GLN
1	B	384	GLN
1	B	385	ASN
1	B	494	GLN
1	B	509	HIS
1	B	534	HIS
1	B	538	GLN
1	B	648	GLN
1	B	691	GLN
1	B	696	GLN

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Mol	Chain	Res	Type
1	B	776	GLN
1	C	17	HIS
1	C	22	ASN
1	C	24	ASN
1	C	40	ASN
1	C	118	ASN
1	C	234	ASN
1	C	254	GLN
1	C	280	HIS
1	C	385	ASN
1	C	494	GLN
1	C	509	HIS
1	C	534	HIS
1	C	630	GLN
1	C	691	GLN
1	D	22	ASN
1	D	24	ASN
1	D	40	ASN
1	D	118	ASN
1	D	254	GLN
1	D	280	HIS
1	D	294	ASN
1	D	298	GLN
1	D	385	ASN
1	D	509	HIS
1	D	630	GLN
1	D	648	GLN
1	D	691	GLN
1	D	696	GLN
1	E	17	HIS
1	E	21	GLN
1	E	22	ASN
1	E	24	ASN
1	E	40	ASN
1	E	118	ASN
1	E	133	ASN
1	E	234	ASN
1	E	254	GLN
1	E	298	GLN
1	E	329	GLN
1	E	378	GLN
1	E	385	ASN

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Mol	Chain	Res	Type
1	E	494	GLN
1	E	509	HIS
1	E	648	GLN
1	F	17	HIS
1	F	21	GLN
1	F	22	ASN
1	F	24	ASN
1	F	40	ASN
1	F	70	GLN
1	F	118	ASN
1	F	234	ASN
1	F	254	GLN
1	F	294	ASN
1	F	298	GLN
1	F	311	GLN
1	F	494	GLN
1	F	509	HIS
1	F	630	GLN
1	F	696	GLN
1	G	17	HIS
1	G	21	GLN
1	G	22	ASN
1	G	40	ASN
1	G	70	GLN
1	G	118	ASN
1	G	234	ASN
1	G	254	GLN
1	G	294	ASN
1	G	494	GLN
1	G	509	HIS
1	G	538	GLN
1	G	648	GLN
1	G	691	GLN
1	G	696	GLN
1	H	17	HIS
1	H	22	ASN
1	H	24	ASN
1	H	40	ASN
1	H	118	ASN
1	H	234	ASN
1	H	254	GLN
1	H	294	ASN

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Mol	Chain	Res	Type
1	H	311	GLN
1	H	465	ASN
1	H	494	GLN
1	H	534	HIS
1	H	648	GLN
1	H	675	HIS
1	H	696	GLN
1	H	785	GLN
1	H	789	ASN
1	I	17	HIS
1	I	22	ASN
1	I	24	ASN
1	I	40	ASN
1	I	70	GLN
1	I	118	ASN
1	I	164	GLN
1	I	234	ASN
1	I	254	GLN
1	I	294	ASN
1	I	311	GLN
1	I	378	GLN
1	I	494	GLN
1	I	534	HIS
1	I	592	HIS
1	I	648	GLN
1	I	696	GLN
1	J	17	HIS
1	J	22	ASN
1	J	24	ASN
1	J	40	ASN
1	J	63	ASN
1	J	70	GLN
1	J	118	ASN
1	J	234	ASN
1	J	254	GLN
1	J	280	HIS
1	J	294	ASN
1	J	298	GLN
1	J	494	GLN
1	J	641	GLN
1	J	696	GLN
1	K	22	ASN

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Mol	Chain	Res	Type
1	K	24	ASN
1	K	40	ASN
1	K	118	ASN
1	K	170	GLN
1	K	234	ASN
1	K	254	GLN
1	K	280	HIS
1	K	321	GLN
1	K	352	GLN
1	K	494	GLN
1	K	509	HIS
1	K	534	HIS
1	K	659	GLN
1	K	696	GLN
1	K	785	GLN
1	L	17	HIS
1	L	21	GLN
1	L	22	ASN
1	L	24	ASN
1	L	40	ASN
1	L	85	HIS
1	L	118	ASN
1	L	122	HIS
1	L	234	ASN
1	L	254	GLN
1	L	294	ASN
1	L	378	GLN
1	L	385	ASN
1	L	494	GLN
1	L	534	HIS
1	L	641	GLN
1	L	696	GLN
1	L	776	GLN
1	L	785	GLN
1	M	17	HIS
1	M	21	GLN
1	M	22	ASN
1	M	24	ASN
1	M	40	ASN
1	M	70	GLN
1	M	118	ASN
1	M	122	HIS

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Mol	Chain	Res	Type
1	M	164	GLN
1	M	234	ASN
1	M	254	GLN
1	M	280	HIS
1	M	294	ASN
1	M	311	GLN
1	M	384	GLN
1	M	385	ASN
1	M	494	GLN
1	M	509	HIS
1	M	696	GLN
1	N	17	HIS
1	N	22	ASN
1	N	24	ASN
1	N	40	ASN
1	N	63	ASN
1	N	70	GLN
1	N	118	ASN
1	N	164	GLN
1	N	234	ASN
1	N	254	GLN
1	N	280	HIS
1	N	294	ASN
1	N	329	GLN
1	N	384	GLN
1	N	385	ASN
1	N	494	GLN
1	N	648	GLN
1	N	696	GLN
1	O	22	ASN
1	O	24	ASN
1	O	40	ASN
1	O	63	ASN
1	O	118	ASN
1	O	133	ASN
1	O	234	ASN
1	O	254	GLN
1	O	280	HIS
1	O	385	ASN
1	O	494	GLN
1	O	509	HIS
1	O	659	GLN

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Mol	Chain	Res	Type
1	O	691	GLN
1	P	22	ASN
1	P	40	ASN
1	P	70	GLN
1	P	118	ASN
1	P	133	ASN
1	P	234	ASN
1	P	254	GLN
1	P	280	HIS
1	P	294	ASN
1	P	384	GLN
1	P	494	GLN
1	P	509	HIS
1	P	630	GLN
1	P	631	ASN
1	P	641	GLN
1	P	648	GLN
1	P	696	GLN
1	Q	17	HIS
1	Q	21	GLN
1	Q	22	ASN
1	Q	24	ASN
1	Q	40	ASN
1	Q	70	GLN
1	Q	118	ASN
1	Q	122	HIS
1	Q	133	ASN
1	Q	234	ASN
1	Q	254	GLN
1	Q	280	HIS
1	Q	294	ASN
1	Q	385	ASN
1	Q	464	HIS
1	Q	494	GLN
1	Q	509	HIS
1	Q	691	GLN
1	Q	696	GLN
1	Q	789	ASN
1	R	21	GLN
1	R	22	ASN
1	R	24	ASN
1	R	40	ASN

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Mol	Chain	Res	Type
1	R	63	ASN
1	R	118	ASN
1	R	133	ASN
1	R	234	ASN
1	R	254	GLN
1	R	294	ASN
1	R	378	GLN
1	R	385	ASN
1	R	494	GLN
1	R	509	HIS
1	R	630	GLN
1	R	648	GLN
1	R	696	GLN
1	R	749	GLN
1	R	776	GLN
1	S	22	ASN
1	S	40	ASN
1	S	70	GLN
1	S	118	ASN
1	S	164	GLN
1	S	234	ASN
1	S	254	GLN
1	S	294	ASN
1	S	311	GLN
1	S	384	GLN
1	S	385	ASN
1	S	494	GLN
1	S	509	HIS
1	S	648	GLN
1	S	696	GLN
1	S	789	ASN
1	T	17	HIS
1	T	22	ASN
1	T	24	ASN
1	T	40	ASN
1	T	70	GLN
1	T	118	ASN
1	T	254	GLN
1	T	294	ASN
1	T	321	GLN
1	T	378	GLN
1	T	384	GLN

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Mol	Chain	Res	Type
1	T	494	GLN
1	T	509	HIS
1	T	534	HIS
1	T	691	GLN
1	T	696	GLN
1	U	17	HIS
1	U	22	ASN
1	U	24	ASN
1	U	38	GLN
1	U	40	ASN
1	U	118	ASN
1	U	234	ASN
1	U	254	GLN
1	U	280	HIS
1	U	494	GLN
1	U	509	HIS
1	U	648	GLN
1	U	696	GLN
1	U	789	ASN
1	V	17	HIS
1	V	22	ASN
1	V	24	ASN
1	V	40	ASN
1	V	70	GLN
1	V	118	ASN
1	V	122	HIS
1	V	234	ASN
1	V	254	GLN
1	V	280	HIS
1	V	294	ASN
1	V	311	GLN
1	V	321	GLN
1	V	385	ASN
1	V	494	GLN
1	V	509	HIS
1	V	691	GLN
1	V	696	GLN
1	W	17	HIS
1	W	22	ASN
1	W	24	ASN
1	W	40	ASN
1	W	70	GLN

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Mol	Chain	Res	Type
1	W	118	ASN
1	W	122	HIS
1	W	234	ASN
1	W	254	GLN
1	W	294	ASN
1	W	321	GLN
1	W	384	GLN
1	W	494	GLN
1	W	509	HIS
1	W	648	GLN
1	W	691	GLN
1	W	696	GLN
1	W	789	ASN
1	X	17	HIS
1	X	21	GLN
1	X	22	ASN
1	X	24	ASN
1	X	40	ASN
1	X	118	ASN
1	X	234	ASN
1	X	254	GLN
1	X	280	HIS
1	X	298	GLN
1	X	385	ASN
1	X	494	GLN
1	X	509	HIS
1	X	691	GLN
1	X	696	GLN
1	Y	17	HIS
1	Y	21	GLN
1	Y	22	ASN
1	Y	40	ASN
1	Y	70	GLN
1	Y	118	ASN
1	Y	133	ASN
1	Y	234	ASN
1	Y	254	GLN
1	Y	280	HIS
1	Y	298	GLN
1	Y	384	GLN
1	Y	385	ASN
1	Y	494	GLN

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Mol	Chain	Res	Type
1	Y	509	HIS
1	Y	659	GLN
1	Y	696	GLN
1	Y	749	GLN
1	Z	17	HIS
1	Z	21	GLN
1	Z	22	ASN
1	Z	24	ASN
1	Z	40	ASN
1	Z	70	GLN
1	Z	118	ASN
1	Z	122	HIS
1	Z	164	GLN
1	Z	234	ASN
1	Z	254	GLN
1	Z	280	HIS
1	Z	294	ASN
1	Z	321	GLN
1	Z	494	GLN
1	Z	648	GLN
1	a	21	GLN
1	a	22	ASN
1	a	70	GLN
1	a	118	ASN
1	a	122	HIS
1	a	164	GLN
1	a	234	ASN
1	a	254	GLN
1	a	294	ASN
1	a	321	GLN
1	a	329	GLN
1	a	338	GLN
1	a	385	ASN
1	a	494	GLN
1	a	509	HIS
1	a	696	GLN
1	b	22	ASN
1	b	40	ASN
1	b	118	ASN
1	b	122	HIS
1	b	133	ASN
1	b	164	GLN

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Mol	Chain	Res	Type
1	b	234	ASN
1	b	254	GLN
1	b	280	HIS
1	b	321	GLN
1	b	329	GLN
1	b	494	GLN
1	b	630	GLN
1	b	648	GLN
1	b	696	GLN
1	b	789	ASN
1	c	17	HIS
1	c	21	GLN
1	c	22	ASN
1	c	24	ASN
1	c	40	ASN
1	c	70	GLN
1	c	118	ASN
1	c	122	HIS
1	c	164	GLN
1	c	234	ASN
1	c	254	GLN
1	c	280	HIS
1	c	298	GLN
1	c	378	GLN
1	c	385	ASN
1	c	494	GLN
1	c	509	HIS
1	c	648	GLN
1	c	659	GLN
1	c	696	GLN
1	d	21	GLN
1	d	22	ASN
1	d	24	ASN
1	d	40	ASN
1	d	118	ASN
1	d	133	ASN
1	d	164	GLN
1	d	234	ASN
1	d	254	GLN
1	d	294	ASN
1	d	311	GLN
1	d	378	GLN

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Mol	Chain	Res	Type
1	d	384	GLN
1	d	385	ASN
1	d	494	GLN
1	d	509	HIS
1	d	648	GLN
1	d	696	GLN
1	e	22	ASN
1	e	24	ASN
1	e	40	ASN
1	e	118	ASN
1	e	234	ASN
1	e	254	GLN
1	e	294	ASN
1	e	298	GLN
1	e	329	GLN
1	e	385	ASN
1	e	509	HIS
1	e	648	GLN
1	e	691	GLN
1	e	696	GLN
1	e	749	GLN
1	f	17	HIS
1	f	22	ASN
1	f	24	ASN
1	f	40	ASN
1	f	70	GLN
1	f	118	ASN
1	f	234	ASN
1	f	254	GLN
1	f	280	HIS
1	f	294	ASN
1	f	321	GLN
1	f	378	GLN
1	f	385	ASN
1	f	494	GLN
1	f	509	HIS
1	f	534	HIS
1	f	691	GLN
1	f	696	GLN
1	g	17	HIS
1	g	22	ASN
1	g	24	ASN

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Mol	Chain	Res	Type
1	g	40	ASN
1	g	63	ASN
1	g	118	ASN
1	g	122	HIS
1	g	234	ASN
1	g	254	GLN
1	g	280	HIS
1	g	329	GLN
1	g	378	GLN
1	g	385	ASN
1	g	494	GLN
1	g	630	GLN
1	g	648	GLN
1	h	17	HIS
1	h	22	ASN
1	h	40	ASN
1	h	70	GLN
1	h	118	ASN
1	h	122	HIS
1	h	234	ASN
1	h	254	GLN
1	h	280	HIS
1	h	294	ASN
1	h	378	GLN
1	h	385	ASN
1	h	494	GLN
1	h	534	HIS
1	h	648	GLN
1	h	691	GLN
1	h	696	GLN
1	i	17	HIS
1	i	22	ASN
1	i	24	ASN
1	i	40	ASN
1	i	63	ASN
1	i	70	GLN
1	i	118	ASN
1	i	234	ASN
1	i	254	GLN
1	i	294	ASN
1	i	385	ASN
1	i	494	GLN

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Mol	Chain	Res	Type
1	i	509	HIS
1	i	534	HIS
1	i	696	GLN
1	i	749	GLN
1	j	17	HIS
1	j	22	ASN
1	j	24	ASN
1	j	40	ASN
1	j	70	GLN
1	j	118	ASN
1	j	234	ASN
1	j	254	GLN
1	j	280	HIS
1	j	294	ASN
1	j	494	GLN
1	j	691	GLN
1	j	696	GLN
1	j	776	GLN
1	j	789	ASN
1	k	22	ASN
1	k	24	ASN
1	k	40	ASN
1	k	70	GLN
1	k	118	ASN
1	k	133	ASN
1	k	234	ASN
1	k	254	GLN
1	k	385	ASN
1	k	464	HIS
1	k	494	GLN
1	k	551	ASN
1	k	641	GLN
1	k	696	GLN
1	k	785	GLN
1	k	789	ASN
1	l	22	ASN
1	l	24	ASN
1	l	40	ASN
1	l	118	ASN
1	l	122	HIS
1	l	234	ASN
1	l	254	GLN

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Mol	Chain	Res	Type
1	l	321	GLN
1	l	329	GLN
1	l	385	ASN
1	l	494	GLN
1	l	648	GLN
1	l	696	GLN
1	m	17	HIS
1	m	22	ASN
1	m	24	ASN
1	m	40	ASN
1	m	118	ASN
1	m	122	HIS
1	m	234	ASN
1	m	254	GLN
1	m	280	HIS
1	m	294	ASN
1	m	384	GLN
1	m	385	ASN
1	m	494	GLN
1	m	509	HIS
1	m	648	GLN
1	m	691	GLN
1	m	696	GLN
1	m	785	GLN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	812/861 (94%)	0.26	40 (4%) 28 12	46, 106, 218, 285	0
1	B	812/861 (94%)	0.30	45 (5%) 24 10	30, 112, 219, 284	0
1	C	812/861 (94%)	0.32	41 (5%) 28 12	54, 113, 221, 291	0
1	D	812/861 (94%)	0.45	57 (7%) 16 7	43, 113, 218, 277	0
1	E	812/861 (94%)	0.54	74 (9%) 9 5	53, 112, 222, 283	0
1	F	812/861 (94%)	0.40	62 (7%) 14 7	46, 114, 223, 278	0
1	G	812/861 (94%)	0.29	45 (5%) 24 10	55, 113, 223, 258	0
1	H	812/861 (94%)	0.18	37 (4%) 31 14	50, 112, 221, 281	0
1	I	812/861 (94%)	0.31	47 (5%) 22 9	56, 108, 215, 266	0
1	J	812/861 (94%)	0.42	59 (7%) 15 7	44, 105, 215, 277	0
1	K	812/861 (94%)	0.41	57 (7%) 16 7	32, 98, 207, 278	0
1	L	812/861 (94%)	0.37	55 (6%) 17 8	33, 99, 210, 277	0
1	M	812/861 (94%)	0.21	38 (4%) 30 13	45, 103, 207, 293	0
1	N	812/861 (94%)	0.12	31 (3%) 38 17	40, 104, 210, 249	0
1	O	812/861 (94%)	0.13	35 (4%) 34 14	33, 103, 214, 272	0
1	P	812/861 (94%)	0.25	45 (5%) 24 10	35, 103, 211, 294	0
1	Q	812/861 (94%)	0.39	56 (6%) 17 7	35, 101, 215, 277	0
1	R	812/861 (94%)	0.36	53 (6%) 18 8	37, 101, 217, 298	0
1	S	812/861 (94%)	0.34	53 (6%) 18 8	48, 106, 212, 284	0
1	T	812/861 (94%)	0.26	44 (5%) 25 10	52, 114, 220, 288	0
1	U	812/861 (94%)	0.15	33 (4%) 35 15	53, 113, 221, 282	0
1	V	812/861 (94%)	0.23	43 (5%) 25 10	57, 114, 220, 287	0
1	W	812/861 (94%)	0.44	66 (8%) 12 6	48, 116, 223, 288	0
1	X	812/861 (94%)	0.48	71 (8%) 10 6	47, 117, 220, 300	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	Y	812/861 (94%)	0.42	67 (8%) 11 6	43, 117, 218, 278	0
1	Z	812/861 (94%)	0.28	46 (5%) 23 10	51, 114, 219, 263	0
1	a	812/861 (94%)	0.26	48 (5%) 22 9	50, 113, 216, 300	0
1	b	812/861 (94%)	0.25	42 (5%) 26 11	28, 110, 217, 281	0
1	c	812/861 (94%)	0.35	56 (6%) 17 7	26, 109, 218, 277	0
1	d	812/861 (94%)	0.31	53 (6%) 18 8	49, 106, 213, 274	0
1	e	812/861 (94%)	0.28	49 (6%) 21 9	47, 105, 210, 284	0
1	f	812/861 (94%)	0.27	48 (5%) 22 9	43, 106, 214, 266	0
1	g	812/861 (94%)	0.17	35 (4%) 34 14	50, 109, 213, 285	0
1	h	812/861 (94%)	0.12	29 (3%) 41 18	54, 110, 210, 277	0
1	i	812/861 (94%)	0.19	40 (4%) 28 12	48, 108, 215, 271	0
1	j	812/861 (94%)	0.29	52 (6%) 19 8	50, 105, 216, 267	0
1	k	812/861 (94%)	0.29	46 (5%) 23 10	41, 104, 210, 261	0
1	l	812/861 (94%)	0.34	51 (6%) 19 8	46, 105, 213, 300	0
1	m	812/861 (94%)	0.37	54 (6%) 17 8	40, 106, 219, 276	0
All	All	31668/33579 (94%)	0.30	1903 (6%) 21 9	26, 108, 217, 300	0

All (1903) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	Y	27	ARG	16.0
1	R	26	SER	13.8
1	l	27	ARG	12.8
1	W	27	ARG	12.5
1	d	82	ARG	12.0
1	Q	26	SER	11.4
1	X	80	GLN	10.9
1	K	82	ARG	10.8
1	P	27	ARG	10.7
1	E	27	ARG	10.5
1	Q	25	VAL	10.4
1	G	834	ASP	10.3
1	S	27	ARG	10.1
1	X	27	ARG	9.3
1	E	82	ARG	9.2
1	d	79	GLY	9.2
1	K	83	LEU	9.1

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Mol	Chain	Res	Type	RSRZ
1	J	98	PRO	9.1
1	X	26	SER	8.9
1	Z	27	ARG	8.8
1	Q	27	ARG	8.6
1	W	80	GLN	8.5
1	X	42	ARG	8.4
1	K	26	SER	8.3
1	e	27	ARG	8.0
1	D	27	ARG	7.9
1	l	79	GLY	7.8
1	F	838	PRO	7.7
1	Q	82	ARG	7.7
1	R	82	ARG	7.6
1	S	80	GLN	7.6
1	S	98	PRO	7.5
1	E	80	GLN	7.5
1	O	27	ARG	7.4
1	J	25	VAL	7.4
1	e	26	SER	7.3
1	R	27	ARG	7.3
1	L	27	ARG	7.3
1	I	845	ALA	7.3
1	K	27	ARG	7.1
1	Y	28	VAL	7.1
1	j	25	VAL	7.0
1	k	26	SER	7.0
1	B	27	ARG	7.0
1	S	79	GLY	6.9
1	m	100	TYR	6.9
1	j	27	ARG	6.8
1	l	83	LEU	6.6
1	k	82	ARG	6.5
1	Z	26	SER	6.5
1	J	82	ARG	6.4
1	k	78	THR	6.4
1	f	27	ARG	6.4
1	E	36	ILE	6.4
1	X	79	GLY	6.3
1	c	25	VAL	6.2
1	T	79	GLY	6.2
1	E	79	GLY	6.2
1	K	94	GLN	6.2

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Mol	Chain	Res	Type	RSRZ
1	S	42	ARG	6.1
1	Q	1	MET	6.1
1	S	26	SER	6.1
1	K	844	THR	6.1
1	R	83	LEU	6.0
1	X	25	VAL	6.0
1	A	837	SER	6.0
1	l	82	ARG	6.0
1	J	1	MET	5.9
1	m	19	LEU	5.9
1	F	844	THR	5.9
1	J	838	PRO	5.9
1	W	833	THR	5.8
1	I	80	GLN	5.8
1	N	845	ALA	5.8
1	F	91	ARG	5.7
1	e	25	VAL	5.7
1	G	833	THR	5.7
1	J	26	SER	5.7
1	d	78	THR	5.7
1	E	838	PRO	5.6
1	C	841	LEU	5.6
1	L	26	SER	5.6
1	W	22	ASN	5.6
1	E	94	GLN	5.6
1	X	82	ARG	5.6
1	c	98	PRO	5.6
1	k	27	ARG	5.6
1	P	26	SER	5.6
1	M	845	ALA	5.6
1	M	844	THR	5.6
1	c	26	SER	5.6
1	J	83	LEU	5.5
1	F	845	ALA	5.5
1	j	26	SER	5.5
1	k	79	GLY	5.5
1	F	92	LEU	5.5
1	C	27	ARG	5.5
1	K	25	VAL	5.5
1	J	27	ARG	5.5
1	K	837	SER	5.4
1	R	25	VAL	5.4

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Mol	Chain	Res	Type	RSRZ
1	I	827	LEU	5.4
1	D	844	THR	5.4
1	m	99	LEU	5.4
1	J	840	ASN	5.4
1	J	28	VAL	5.4
1	D	840	ASN	5.4
1	K	78	THR	5.4
1	S	82	ARG	5.3
1	W	83	LEU	5.3
1	I	844	THR	5.3
1	F	42	ARG	5.3
1	E	42	ARG	5.3
1	L	833	THR	5.3
1	V	835	GLY	5.3
1	L	838	PRO	5.3
1	E	844	THR	5.3
1	F	834	ASP	5.3
1	R	28	VAL	5.2
1	Z	36	ILE	5.2
1	H	840	ASN	5.2
1	H	838	PRO	5.2
1	m	55	PRO	5.2
1	d	49	ARG	5.2
1	W	26	SER	5.2
1	J	837	SER	5.2
1	M	838	PRO	5.2
1	D	818	GLN	5.2
1	F	27	ARG	5.2
1	m	14	HIS	5.2
1	H	834	ASP	5.1
1	J	845	ALA	5.1
1	E	346	GLU	5.1
1	I	820	LYS	5.1
1	G	845	ALA	5.1
1	J	841	LEU	5.1
1	P	844	THR	5.1
1	F	837	SER	5.1
1	e	79	GLY	5.1
1	L	841	LEU	5.1
1	e	42	ARG	5.1
1	I	834	ASP	5.1
1	E	834	ASP	5.1

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Mol	Chain	Res	Type	RSRZ
1	b	55	PRO	5.0
1	H	818	GLN	5.0
1	l	26	SER	5.0
1	C	833	THR	5.0
1	m	101	PRO	5.0
1	F	833	THR	5.0
1	G	840	ASN	5.0
1	J	844	THR	5.0
1	D	838	PRO	5.0
1	G	838	PRO	5.0
1	G	844	THR	5.0
1	L	42	ARG	5.0
1	k	835	GLY	5.0
1	E	845	ALA	5.0
1	K	845	ALA	5.0
1	C	838	PRO	4.9
1	I	838	PRO	4.9
1	X	41	GLU	4.9
1	E	81	VAL	4.9
1	I	79	GLY	4.9
1	Q	22	ASN	4.9
1	j	835	GLY	4.9
1	F	94	GLN	4.9
1	F	818	GLN	4.9
1	E	818	GLN	4.9
1	Y	37	ARG	4.9
1	c	78	THR	4.9
1	E	26	SER	4.9
1	G	818	GLN	4.9
1	E	840	ASN	4.9
1	I	19	LEU	4.9
1	C	101	PRO	4.9
1	K	840	ASN	4.8
1	L	818	GLN	4.8
1	O	844	THR	4.8
1	C	100	TYR	4.8
1	F	841	LEU	4.8
1	J	100	TYR	4.8
1	H	841	LEU	4.8
1	O	845	ALA	4.8
1	C	827	LEU	4.8
1	H	844	THR	4.8

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Mol	Chain	Res	Type	RSRZ
1	O	26	SER	4.8
1	K	838	PRO	4.8
1	c	41	GLU	4.8
1	A	818	GLN	4.8
1	H	845	ALA	4.8
1	R	845	ALA	4.8
1	b	835	GLY	4.8
1	Y	15	TYR	4.8
1	j	19	LEU	4.8
1	G	827	LEU	4.7
1	K	820	LYS	4.7
1	B	827	LEU	4.7
1	R	78	THR	4.7
1	L	839	ILE	4.7
1	b	49	ARG	4.7
1	a	101	PRO	4.7
1	L	79	GLY	4.7
1	J	833	THR	4.7
1	L	844	THR	4.7
1	N	841	LEU	4.7
1	E	41	GLU	4.7
1	C	844	THR	4.7
1	k	83	LEU	4.7
1	D	82	ARG	4.7
1	l	80	GLN	4.7
1	H	835	GLY	4.7
1	l	78	THR	4.7
1	Q	844	THR	4.6
1	C	818	GLN	4.6
1	c	81	VAL	4.6
1	f	26	SER	4.6
1	G	832	ILE	4.6
1	L	845	ALA	4.6
1	Q	845	ALA	4.6
1	K	841	LEU	4.6
1	P	83	LEU	4.6
1	l	820	LYS	4.6
1	W	42	ARG	4.6
1	C	820	LYS	4.6
1	P	1	MET	4.6
1	R	42	ARG	4.6
1	N	820	LYS	4.6

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Mol	Chain	Res	Type	RSRZ
1	Y	42	ARG	4.6
1	Y	36	ILE	4.5
1	l	818	GLN	4.5
1	X	105	LEU	4.5
1	B	844	THR	4.5
1	m	103	GLU	4.5
1	m	841	LEU	4.5
1	O	838	PRO	4.5
1	B	838	PRO	4.5
1	R	80	GLN	4.5
1	C	845	ALA	4.5
1	D	845	ALA	4.5
1	I	840	ASN	4.5
1	J	839	ILE	4.5
1	U	835	GLY	4.5
1	E	837	SER	4.5
1	J	19	LEU	4.5
1	M	840	ASN	4.4
1	c	83	LEU	4.4
1	O	840	ASN	4.4
1	A	845	ALA	4.4
1	M	836	SER	4.4
1	P	845	ALA	4.4
1	d	25	VAL	4.4
1	f	835	GLY	4.4
1	K	823	GLN	4.4
1	Y	41	GLU	4.4
1	m	1	MET	4.4
1	D	26	SER	4.4
1	I	818	GLN	4.4
1	J	818	GLN	4.4
1	I	837	SER	4.4
1	K	834	ASP	4.4
1	F	840	ASN	4.4
1	F	822	LEU	4.4
1	g	835	GLY	4.4
1	C	41	GLU	4.4
1	M	841	LEU	4.4
1	c	836	SER	4.4
1	B	845	ALA	4.4
1	K	833	THR	4.4
1	W	82	ARG	4.4

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Mol	Chain	Res	Type	RSRZ
1	B	818	GLN	4.3
1	M	27	ARG	4.3
1	D	820	LYS	4.3
1	N	833	THR	4.3
1	R	1	MET	4.3
1	E	221	LEU	4.3
1	i	820	LYS	4.3
1	N	840	ASN	4.3
1	Q	838	PRO	4.3
1	D	841	LEU	4.3
1	Y	94	GLN	4.3
1	G	839	ILE	4.3
1	Q	98	PRO	4.3
1	Y	26	SER	4.3
1	e	835	GLY	4.3
1	G	817	MET	4.3
1	R	838	PRO	4.3
1	Z	28	VAL	4.3
1	i	27	ARG	4.3
1	U	836	SER	4.3
1	N	838	PRO	4.3
1	K	836	SER	4.3
1	f	836	SER	4.3
1	K	818	GLN	4.3
1	L	840	ASN	4.3
1	E	827	LEU	4.3
1	h	835	GLY	4.3
1	L	1	MET	4.3
1	R	22	ASN	4.3
1	K	839	ILE	4.2
1	S	845	ALA	4.2
1	Y	836	SER	4.2
1	G	80	GLN	4.2
1	O	818	GLN	4.2
1	F	817	MET	4.2
1	m	818	GLN	4.2
1	U	19	LEU	4.2
1	A	820	LYS	4.2
1	C	42	ARG	4.2
1	d	26	SER	4.2
1	B	100	TYR	4.2
1	W	94	GLN	4.2

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Mol	Chain	Res	Type	RSRZ
1	B	820	LYS	4.2
1	R	19	LEU	4.2
1	C	834	ASP	4.2
1	H	837	SER	4.2
1	F	827	LEU	4.2
1	Z	83	LEU	4.2
1	b	20	ASP	4.2
1	e	82	ARG	4.2
1	l	19	LEU	4.2
1	a	26	SER	4.2
1	N	844	THR	4.2
1	M	818	GLN	4.2
1	U	838	PRO	4.2
1	c	27	ARG	4.2
1	C	22	ASN	4.2
1	E	820	LYS	4.2
1	O	841	LEU	4.2
1	P	838	PRO	4.2
1	L	83	LEU	4.2
1	T	832	ILE	4.2
1	E	817	MET	4.2
1	m	820	LYS	4.2
1	e	78	THR	4.1
1	B	837	SER	4.1
1	B	839	ILE	4.1
1	M	837	SER	4.1
1	k	817	MET	4.1
1	H	827	LEU	4.1
1	V	42	ARG	4.1
1	I	841	LEU	4.1
1	H	842	PHE	4.1
1	L	28	VAL	4.1
1	J	105	LEU	4.1
1	Q	818	GLN	4.1
1	L	837	SER	4.1
1	a	27	ARG	4.1
1	H	821	LEU	4.1
1	P	827	LEU	4.1
1	j	820	LYS	4.1
1	R	832	ILE	4.1
1	d	835	GLY	4.0
1	L	832	ILE	4.0

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Mol	Chain	Res	Type	RSRZ
1	W	832	ILE	4.0
1	h	818	GLN	4.0
1	M	834	ASP	4.0
1	A	844	THR	4.0
1	M	42	ARG	4.0
1	O	837	SER	4.0
1	E	19	LEU	4.0
1	e	833	THR	4.0
1	R	841	LEU	4.0
1	S	81	VAL	4.0
1	F	829	SER	4.0
1	k	818	GLN	4.0
1	E	841	LEU	4.0
1	F	820	LYS	4.0
1	X	94	GLN	4.0
1	J	99	LEU	4.0
1	A	841	LEU	4.0
1	G	821	LEU	4.0
1	V	25	VAL	4.0
1	c	100	TYR	4.0
1	j	44	LEU	4.0
1	m	837	SER	4.0
1	M	833	THR	4.0
1	M	26	SER	4.0
1	c	835	GLY	4.0
1	L	820	LYS	4.0
1	h	836	SER	4.0
1	B	826	GLY	4.0
1	c	832	ILE	4.0
1	h	820	LYS	4.0
1	A	838	PRO	4.0
1	J	826	GLY	4.0
1	Q	820	LYS	4.0
1	E	839	ILE	4.0
1	M	842	PHE	4.0
1	J	834	ASP	4.0
1	L	821	LEU	3.9
1	N	839	ILE	3.9
1	I	821	LEU	3.9
1	K	832	ILE	3.9
1	D	839	ILE	3.9
1	N	817	MET	3.9

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Mol	Chain	Res	Type	RSRZ
1	D	834	ASP	3.9
1	H	829	SER	3.9
1	L	94	GLN	3.9
1	D	833	THR	3.9
1	k	844	THR	3.9
1	G	837	SER	3.9
1	F	37	ARG	3.9
1	e	28	VAL	3.9
1	C	840	ASN	3.9
1	c	99	LEU	3.9
1	c	19	LEU	3.9
1	l	81	VAL	3.9
1	C	826	GLY	3.9
1	P	79	GLY	3.9
1	J	832	ILE	3.9
1	D	827	LEU	3.9
1	J	827	LEU	3.9
1	g	818	GLN	3.9
1	l	845	ALA	3.9
1	T	844	THR	3.9
1	k	822	LEU	3.9
1	A	817	MET	3.9
1	X	93	ALA	3.9
1	g	817	MET	3.9
1	F	821	LEU	3.9
1	T	845	ALA	3.9
1	F	832	ILE	3.9
1	C	822	LEU	3.9
1	J	79	GLY	3.9
1	N	834	ASP	3.9
1	J	842	PHE	3.9
1	l	838	PRO	3.9
1	A	840	ASN	3.9
1	B	840	ASN	3.9
1	R	818	GLN	3.9
1	f	818	GLN	3.9
1	M	839	ILE	3.8
1	B	817	MET	3.8
1	f	55	PRO	3.8
1	d	836	SER	3.8
1	E	833	THR	3.8
1	J	831	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
1	k	55	PRO	3.8
1	C	839	ILE	3.8
1	W	79	GLY	3.8
1	V	838	PRO	3.8
1	i	838	PRO	3.8
1	N	818	GLN	3.8
1	m	822	LEU	3.8
1	A	821	LEU	3.8
1	f	817	MET	3.8
1	K	842	PHE	3.8
1	I	832	ILE	3.8
1	L	826	GLY	3.8
1	S	818	GLN	3.8
1	P	818	GLN	3.8
1	C	817	MET	3.8
1	P	821	LEU	3.8
1	d	838	PRO	3.8
1	I	4	GLU	3.8
1	K	22	ASN	3.8
1	I	842	PHE	3.8
1	O	826	GLY	3.8
1	i	818	GLN	3.8
1	b	27	ARG	3.8
1	e	22	ASN	3.8
1	V	818	GLN	3.8
1	H	839	ILE	3.8
1	S	844	THR	3.8
1	W	15	TYR	3.8
1	W	827	LEU	3.8
1	I	839	ILE	3.8
1	I	817	MET	3.8
1	g	836	SER	3.8
1	m	844	THR	3.8
1	M	820	LYS	3.8
1	Q	832	ILE	3.8
1	D	817	MET	3.8
1	G	826	GLY	3.8
1	l	100	TYR	3.8
1	X	48	VAL	3.8
1	A	822	LEU	3.8
1	E	822	LEU	3.8
1	b	19	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
1	R	840	ASN	3.7
1	K	821	LEU	3.7
1	Y	838	PRO	3.7
1	e	818	GLN	3.7
1	j	844	THR	3.7
1	P	841	LEU	3.7
1	Q	83	LEU	3.7
1	f	827	LEU	3.7
1	l	841	LEU	3.7
1	E	831	LEU	3.7
1	J	817	MET	3.7
1	Z	836	SER	3.7
1	H	833	THR	3.7
1	P	42	ARG	3.7
1	E	138	MET	3.7
1	G	823	GLN	3.7
1	m	823	GLN	3.7
1	J	821	LEU	3.7
1	B	821	LEU	3.7
1	N	827	LEU	3.7
1	m	826	GLY	3.7
1	I	822	LEU	3.7
1	O	827	LEU	3.7
1	K	826	GLY	3.7
1	l	844	THR	3.7
1	C	825	LEU	3.7
1	R	844	THR	3.7
1	X	818	GLN	3.7
1	B	14	HIS	3.7
1	m	817	MET	3.7
1	N	830	THR	3.7
1	H	823	GLN	3.7
1	K	831	LEU	3.7
1	P	832	ILE	3.7
1	L	834	ASP	3.7
1	W	818	GLN	3.7
1	d	818	GLN	3.7
1	B	831	LEU	3.7
1	H	817	MET	3.7
1	m	829	SER	3.7
1	E	83	LEU	3.7
1	E	821	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
1	Q	840	ASN	3.7
1	E	832	ILE	3.7
1	J	829	SER	3.7
1	F	82	ARG	3.7
1	D	837	SER	3.7
1	F	831	LEU	3.7
1	I	819	VAL	3.7
1	P	19	LEU	3.7
1	M	826	GLY	3.7
1	M	827	LEU	3.7
1	V	821	LEU	3.7
1	G	829	SER	3.6
1	X	91	ARG	3.6
1	F	828	LYS	3.6
1	I	828	LYS	3.6
1	S	822	LEU	3.6
1	l	831	LEU	3.6
1	M	817	MET	3.6
1	E	22	ASN	3.6
1	I	826	GLY	3.6
1	b	818	GLN	3.6
1	E	829	SER	3.6
1	L	822	LEU	3.6
1	N	832	ILE	3.6
1	R	98	PRO	3.6
1	C	829	SER	3.6
1	G	820	LYS	3.6
1	i	835	GLY	3.6
1	O	4	GLU	3.6
1	H	832	ILE	3.6
1	I	831	LEU	3.6
1	D	278	PRO	3.6
1	F	41	GLU	3.6
1	Z	818	GLN	3.6
1	a	100	TYR	3.6
1	D	829	SER	3.6
1	D	826	GLY	3.6
1	D	819	VAL	3.6
1	E	826	GLY	3.6
1	G	819	VAL	3.6
1	V	833	THR	3.6
1	N	835	GLY	3.6

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Mol	Chain	Res	Type	RSRZ
1	F	839	ILE	3.6
1	Q	821	LEU	3.6
1	P	817	MET	3.6
1	F	826	GLY	3.6
1	Y	79	GLY	3.6
1	D	821	LEU	3.6
1	K	822	LEU	3.6
1	L	17	HIS	3.6
1	T	821	LEU	3.6
1	d	80	GLN	3.6
1	A	826	GLY	3.6
1	S	841	LEU	3.6
1	F	830	THR	3.6
1	f	838	PRO	3.6
1	X	820	LYS	3.6
1	e	820	LYS	3.6
1	f	42	ARG	3.6
1	k	820	LYS	3.6
1	A	831	LEU	3.6
1	G	822	LEU	3.6
1	K	829	SER	3.6
1	W	822	LEU	3.6
1	k	831	LEU	3.6
1	l	825	LEU	3.6
1	m	845	ALA	3.6
1	L	817	MET	3.6
1	V	26	SER	3.6
1	L	831	LEU	3.6
1	R	835	GLY	3.6
1	h	817	MET	3.6
1	P	28	VAL	3.6
1	J	820	LYS	3.6
1	M	822	LEU	3.6
1	M	831	LEU	3.6
1	U	826	GLY	3.6
1	A	829	SER	3.6
1	U	818	GLN	3.6
1	N	842	PHE	3.6
1	X	89	GLU	3.6
1	T	818	GLN	3.6
1	e	838	PRO	3.6
1	a	79	GLY	3.6

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Mol	Chain	Res	Type	RSRZ
1	L	4	GLU	3.6
1	Q	42	ARG	3.6
1	b	838	PRO	3.6
1	l	817	MET	3.6
1	B	836	SER	3.6
1	m	840	ASN	3.6
1	K	828	LYS	3.6
1	W	845	ALA	3.6
1	Y	820	LYS	3.6
1	j	841	LEU	3.6
1	Q	55	PRO	3.6
1	D	822	LEU	3.5
1	b	822	LEU	3.5
1	X	844	THR	3.5
1	W	838	PRO	3.5
1	k	838	PRO	3.5
1	m	98	PRO	3.5
1	X	827	LEU	3.5
1	i	836	SER	3.5
1	G	42	ARG	3.5
1	M	830	THR	3.5
1	G	843	SER	3.5
1	j	838	PRO	3.5
1	S	221	LEU	3.5
1	U	832	ILE	3.5
1	C	835	GLY	3.5
1	Z	42	ARG	3.5
1	j	278	PRO	3.5
1	k	22	ASN	3.5
1	R	821	LEU	3.5
1	V	845	ALA	3.5
1	m	831	LEU	3.5
1	e	817	MET	3.5
1	g	1	MET	3.5
1	H	826	GLY	3.5
1	S	838	PRO	3.5
1	J	830	THR	3.5
1	L	82	ARG	3.5
1	N	837	SER	3.5
1	j	821	LEU	3.5
1	k	827	LEU	3.5
1	P	839	ILE	3.5

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Mol	Chain	Res	Type	RSRZ
1	Z	838	PRO	3.5
1	I	830	THR	3.5
1	M	821	LEU	3.5
1	U	42	ARG	3.5
1	I	829	SER	3.5
1	P	826	GLY	3.5
1	Y	98	PRO	3.5
1	L	819	VAL	3.5
1	V	844	THR	3.5
1	P	837	SER	3.5
1	a	835	GLY	3.5
1	C	831	LEU	3.5
1	E	819	VAL	3.5
1	F	825	LEU	3.5
1	H	822	LEU	3.5
1	g	822	LEU	3.5
1	h	822	LEU	3.5
1	b	832	ILE	3.5
1	Y	818	GLN	3.5
1	K	42	ARG	3.5
1	W	91	ARG	3.5
1	J	822	LEU	3.5
1	T	841	LEU	3.5
1	B	829	SER	3.5
1	c	838	PRO	3.5
1	f	28	VAL	3.5
1	j	818	GLN	3.5
1	U	844	THR	3.5
1	l	822	LEU	3.5
1	M	832	ILE	3.5
1	c	14	HIS	3.5
1	m	835	GLY	3.5
1	A	830	THR	3.5
1	F	26	SER	3.5
1	l	826	GLY	3.5
1	i	844	THR	3.5
1	W	820	LYS	3.5
1	A	827	LEU	3.5
1	O	822	LEU	3.5
1	a	821	LEU	3.5
1	R	817	MET	3.5
1	L	830	THR	3.5

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Mol	Chain	Res	Type	RSRZ
1	S	839	ILE	3.5
1	a	54	PRO	3.4
1	B	822	LEU	3.4
1	D	831	LEU	3.4
1	W	105	LEU	3.4
1	H	843	SER	3.4
1	O	839	ILE	3.4
1	D	342	GLU	3.4
1	H	831	LEU	3.4
1	U	845	ALA	3.4
1	L	829	SER	3.4
1	Q	826	GLY	3.4
1	Q	837	SER	3.4
1	c	818	GLN	3.4
1	m	839	ILE	3.4
1	D	830	THR	3.4
1	i	817	MET	3.4
1	A	833	THR	3.4
1	C	821	LEU	3.4
1	j	79	GLY	3.4
1	a	832	ILE	3.4
1	j	822	LEU	3.4
1	E	828	LYS	3.4
1	S	817	MET	3.4
1	Q	94	GLN	3.4
1	N	829	SER	3.4
1	Q	839	ILE	3.4
1	T	822	LEU	3.4
1	S	823	GLN	3.4
1	E	199	ARG	3.4
1	O	834	ASP	3.4
1	l	36	ILE	3.4
1	O	823	GLN	3.4
1	d	844	THR	3.4
1	f	822	LEU	3.4
1	k	836	SER	3.4
1	F	819	VAL	3.4
1	L	80	GLN	3.4
1	E	842	PHE	3.4
1	k	840	ASN	3.4
1	P	829	SER	3.4
1	k	821	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	L	835	GLY	3.4
1	J	823	GLN	3.4
1	A	825	LEU	3.4
1	N	822	LEU	3.4
1	j	823	GLN	3.4
1	D	832	ILE	3.4
1	L	825	LEU	3.4
1	B	830	THR	3.4
1	P	835	GLY	3.4
1	m	79	GLY	3.4
1	F	36	ILE	3.4
1	c	105	LEU	3.4
1	J	828	LYS	3.4
1	Y	823	GLN	3.4
1	l	840	ASN	3.4
1	h	829	SER	3.4
1	Z	820	LYS	3.4
1	b	15	TYR	3.4
1	B	823	GLN	3.4
1	M	823	GLN	3.4
1	B	841	LEU	3.4
1	G	831	LEU	3.4
1	V	841	LEU	3.4
1	C	842	PHE	3.4
1	O	828	LYS	3.4
1	k	826	GLY	3.4
1	c	55	PRO	3.4
1	C	830	THR	3.4
1	H	830	THR	3.4
1	S	4	GLU	3.4
1	Q	105	LEU	3.4
1	S	821	LEU	3.4
1	X	83	LEU	3.4
1	Y	82	ARG	3.4
1	i	827	LEU	3.4
1	i	826	GLY	3.4
1	L	828	LYS	3.4
1	S	820	LYS	3.4
1	C	832	ILE	3.4
1	E	88	GLN	3.4
1	R	827	LEU	3.4
1	M	819	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	O	830	THR	3.3
1	Z	833	THR	3.3
1	l	833	THR	3.3
1	m	78	THR	3.3
1	d	823	GLN	3.3
1	H	819	VAL	3.3
1	B	832	ILE	3.3
1	Z	278	PRO	3.3
1	c	103	GLU	3.3
1	i	831	LEU	3.3
1	m	821	LEU	3.3
1	m	819	VAL	3.3
1	I	825	LEU	3.3
1	J	825	LEU	3.3
1	N	831	LEU	3.3
1	Y	822	LEU	3.3
1	P	823	GLN	3.3
1	A	839	ILE	3.3
1	H	828	LYS	3.3
1	K	830	THR	3.3
1	P	822	LEU	3.3
1	V	827	LEU	3.3
1	c	126	LEU	3.3
1	c	821	LEU	3.3
1	E	185	ARG	3.3
1	E	830	THR	3.3
1	Y	14	HIS	3.3
1	f	820	LYS	3.3
1	g	820	LYS	3.3
1	m	832	ILE	3.3
1	h	821	LEU	3.3
1	A	835	GLY	3.3
1	I	103	GLU	3.3
1	B	819	VAL	3.3
1	J	80	GLN	3.3
1	P	840	ASN	3.3
1	F	842	PHE	3.3
1	G	830	THR	3.3
1	R	36	ILE	3.3
1	T	840	ASN	3.3
1	E	1	MET	3.3
1	B	835	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
1	J	819	VAL	3.3
1	O	819	VAL	3.3
1	U	821	LEU	3.3
1	O	820	LYS	3.3
1	P	830	THR	3.3
1	R	820	LYS	3.3
1	X	823	GLN	3.3
1	i	823	GLN	3.3
1	S	840	ASN	3.3
1	i	822	LEU	3.3
1	i	841	LEU	3.3
1	O	842	PHE	3.3
1	G	41	GLU	3.3
1	V	817	MET	3.3
1	Y	817	MET	3.3
1	N	823	GLN	3.3
1	P	25	VAL	3.3
1	j	831	LEU	3.3
1	l	821	LEU	3.3
1	R	834	ASP	3.3
1	W	41	GLU	3.3
1	Y	830	THR	3.3
1	a	838	PRO	3.3
1	R	837	SER	3.3
1	S	830	THR	3.3
1	V	820	LYS	3.3
1	Y	185	ARG	3.3
1	b	836	SER	3.3
1	g	830	THR	3.3
1	j	832	ILE	3.3
1	G	842	PHE	3.3
1	d	22	ASN	3.3
1	j	845	ALA	3.3
1	R	826	GLY	3.3
1	c	826	GLY	3.3
1	j	817	MET	3.3
1	Q	827	LEU	3.3
1	a	822	LEU	3.3
1	e	827	LEU	3.3
1	j	829	SER	3.3
1	m	838	PRO	3.3
1	M	828	LYS	3.3

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Mol	Chain	Res	Type	RSRZ
1	K	1	MET	3.3
1	a	818	GLN	3.3
1	g	821	LEU	3.3
1	l	55	PRO	3.3
1	l	827	LEU	3.3
1	S	832	ILE	3.3
1	l	830	THR	3.3
1	F	823	GLN	3.3
1	F	843	SER	3.3
1	T	838	PRO	3.3
1	d	831	LEU	3.3
1	U	833	THR	3.3
1	B	26	SER	3.3
1	T	826	GLY	3.3
1	W	844	THR	3.3
1	E	101	PRO	3.3
1	N	826	GLY	3.3
1	T	835	GLY	3.3
1	h	826	GLY	3.3
1	a	836	SER	3.3
1	l	837	SER	3.3
1	m	830	THR	3.3
1	C	837	SER	3.3
1	X	101	PRO	3.3
1	h	838	PRO	3.3
1	L	842	PHE	3.2
1	O	825	LEU	3.2
1	V	822	LEU	3.2
1	R	830	THR	3.2
1	O	831	LEU	3.2
1	Z	821	LEU	3.2
1	f	821	LEU	3.2
1	V	837	SER	3.2
1	e	36	ILE	3.2
1	L	823	GLN	3.2
1	T	820	LYS	3.2
1	Q	817	MET	3.2
1	U	822	LEU	3.2
1	Z	822	LEU	3.2
1	e	826	GLY	3.2
1	I	823	GLN	3.2
1	L	843	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	T	823	GLN	3.2
1	B	825	LEU	3.2
1	X	197	LEU	3.2
1	c	830	THR	3.2
1	f	826	GLY	3.2
1	H	825	LEU	3.2
1	Q	822	LEU	3.2
1	S	19	LEU	3.2
1	N	821	LEU	3.2
1	a	827	LEU	3.2
1	X	836	SER	3.2
1	j	840	ASN	3.2
1	g	826	GLY	3.2
1	i	821	LEU	3.2
1	D	41	GLU	3.2
1	I	816	GLU	3.2
1	m	26	SER	3.2
1	P	820	LYS	3.2
1	U	820	LYS	3.2
1	W	823	GLN	3.2
1	Z	826	GLY	3.2
1	a	825	LEU	3.2
1	Z	844	THR	3.2
1	f	830	THR	3.2
1	B	25	VAL	3.2
1	k	829	SER	3.2
1	X	830	THR	3.2
1	Y	845	ALA	3.2
1	D	28	VAL	3.2
1	K	28	VAL	3.2
1	I	843	SER	3.2
1	D	825	LEU	3.2
1	S	94	GLN	3.2
1	k	80	GLN	3.2
1	X	259	HIS	3.2
1	P	834	ASP	3.2
1	j	826	GLY	3.2
1	Q	36	ILE	3.2
1	A	19	LEU	3.2
1	D	842	PHE	3.2
1	Y	831	LEU	3.2
1	g	831	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	14	HIS	3.2
1	N	4	GLU	3.2
1	S	41	GLU	3.2
1	O	817	MET	3.2
1	W	830	THR	3.2
1	g	832	ILE	3.2
1	P	831	LEU	3.2
1	l	42	ARG	3.2
1	W	817	MET	3.2
1	l	823	GLN	3.2
1	A	819	VAL	3.2
1	R	839	ILE	3.2
1	m	834	ASP	3.2
1	B	833	THR	3.2
1	K	843	SER	3.2
1	L	816	GLU	3.2
1	L	827	LEU	3.2
1	f	82	ARG	3.2
1	k	42	ARG	3.2
1	T	817	MET	3.2
1	j	49	ARG	3.2
1	j	105	LEU	3.2
1	F	28	VAL	3.2
1	g	838	PRO	3.2
1	e	829	SER	3.2
1	k	823	GLN	3.2
1	Y	821	LEU	3.2
1	c	820	LYS	3.2
1	c	822	LEU	3.2
1	d	820	LYS	3.2
1	d	27	ARG	3.1
1	Q	835	GLY	3.1
1	L	19	LEU	3.1
1	Q	831	LEU	3.1
1	W	821	LEU	3.1
1	d	830	THR	3.1
1	k	819	VAL	3.1
1	F	816	GLU	3.1
1	R	823	GLN	3.1
1	U	823	GLN	3.1
1	a	826	GLY	3.1
1	U	840	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
1	V	829	SER	3.1
1	W	829	SER	3.1
1	h	832	ILE	3.1
1	Q	823	GLN	3.1
1	O	821	LEU	3.1
1	a	841	LEU	3.1
1	j	42	ARG	3.1
1	G	825	LEU	3.1
1	U	841	LEU	3.1
1	X	821	LEU	3.1
1	k	841	LEU	3.1
1	A	823	GLN	3.1
1	h	831	LEU	3.1
1	X	829	SER	3.1
1	c	817	MET	3.1
1	g	26	SER	3.1
1	e	823	GLN	3.1
1	i	840	ASN	3.1
1	K	817	MET	3.1
1	X	838	PRO	3.1
1	X	4	GLU	3.1
1	Q	221	LEU	3.1
1	I	27	ARG	3.1
1	J	843	SER	3.1
1	Y	826	GLY	3.1
1	d	821	LEU	3.1
1	d	822	LEU	3.1
1	k	837	SER	3.1
1	K	835	GLY	3.1
1	M	829	SER	3.1
1	l	829	SER	3.1
1	j	830	THR	3.1
1	m	825	LEU	3.1
1	F	90	ILE	3.1
1	R	829	SER	3.1
1	X	817	MET	3.1
1	b	821	LEU	3.1
1	e	822	LEU	3.1
1	D	211	GLU	3.1
1	S	831	LEU	3.1
1	e	830	THR	3.1
1	Q	830	THR	3.1

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Mol	Chain	Res	Type	RSRZ
1	S	837	SER	3.1
1	Q	834	ASP	3.1
1	U	830	THR	3.1
1	Y	844	THR	3.1
1	D	828	LYS	3.1
1	l	819	VAL	3.1
1	J	55	PRO	3.1
1	i	834	ASP	3.1
1	K	819	VAL	3.1
1	T	829	SER	3.1
1	X	98	PRO	3.1
1	Z	830	THR	3.1
1	b	830	THR	3.1
1	T	59	CYS	3.1
1	e	831	LEU	3.1
1	k	839	ILE	3.1
1	i	25	VAL	3.1
1	T	830	THR	3.1
1	a	14	HIS	3.1
1	l	835	GLY	3.1
1	S	834	ASP	3.1
1	a	78	THR	3.1
1	h	823	GLN	3.1
1	i	830	THR	3.1
1	M	825	LEU	3.1
1	C	819	VAL	3.1
1	O	832	ILE	3.1
1	f	831	LEU	3.1
1	S	36	ILE	3.0
1	D	843	SER	3.0
1	d	826	GLY	3.0
1	D	36	ILE	3.0
1	E	28	VAL	3.0
1	Q	819	VAL	3.0
1	R	833	THR	3.0
1	c	79	GLY	3.0
1	V	823	GLN	3.0
1	Y	825	LEU	3.0
1	c	837	SER	3.0
1	S	835	GLY	3.0
1	N	819	VAL	3.0
1	g	844	THR	3.0

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Mol	Chain	Res	Type	RSRZ
1	E	825	LEU	3.0
1	V	840	ASN	3.0
1	F	278	PRO	3.0
1	I	78	THR	3.0
1	S	211	GLU	3.0
1	a	830	THR	3.0
1	U	825	LEU	3.0
1	X	822	LEU	3.0
1	W	138	MET	3.0
1	c	259	HIS	3.0
1	X	826	GLY	3.0
1	E	823	GLN	3.0
1	H	820	LYS	3.0
1	W	28	VAL	3.0
1	m	836	SER	3.0
1	V	839	ILE	3.0
1	b	839	ILE	3.0
1	j	1	MET	3.0
1	V	830	THR	3.0
1	f	829	SER	3.0
1	C	816	GLU	3.0
1	T	831	LEU	3.0
1	b	820	LYS	3.0
1	W	36	ILE	3.0
1	Y	199	ARG	3.0
1	e	845	ALA	3.0
1	E	843	SER	3.0
1	G	841	LEU	3.0
1	S	826	GLY	3.0
1	A	832	ILE	3.0
1	F	93	ALA	3.0
1	m	827	LEU	3.0
1	J	41	GLU	3.0
1	j	28	VAL	3.0
1	Q	833	THR	3.0
1	c	839	ILE	3.0
1	i	829	SER	3.0
1	W	92	LEU	3.0
1	c	82	ARG	3.0
1	R	831	LEU	3.0
1	E	816	GLU	3.0
1	W	826	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
1	Y	840	ASN	3.0
1	Z	840	ASN	3.0
1	g	823	GLN	3.0
1	k	830	THR	3.0
1	R	822	LEU	3.0
1	U	831	LEU	3.0
1	b	831	LEU	3.0
1	A	842	PHE	3.0
1	Q	836	SER	3.0
1	P	819	VAL	3.0
1	D	19	LEU	3.0
1	Z	829	SER	3.0
1	a	820	LYS	3.0
1	c	829	SER	3.0
1	m	833	THR	3.0
1	P	825	LEU	3.0
1	X	831	LEU	3.0
1	D	835	GLY	3.0
1	H	836	SER	3.0
1	h	833	THR	3.0
1	j	839	ILE	3.0
1	A	15	TYR	3.0
1	W	825	LEU	3.0
1	Z	82	ARG	3.0
1	b	829	SER	3.0
1	g	819	VAL	3.0
1	B	842	PHE	3.0
1	h	830	THR	3.0
1	V	836	SER	2.9
1	D	199	ARG	2.9
1	a	823	GLN	2.9
1	C	36	ILE	2.9
1	R	842	PHE	2.9
1	a	844	THR	2.9
1	A	824	SER	2.9
1	U	829	SER	2.9
1	i	845	ALA	2.9
1	X	151	TYR	2.9
1	c	101	PRO	2.9
1	k	825	LEU	2.9
1	N	824	SER	2.9
1	d	817	MET	2.9

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Mol	Chain	Res	Type	RSRZ
1	E	100	TYR	2.9
1	K	825	LEU	2.9
1	a	831	LEU	2.9
1	e	819	VAL	2.9
1	k	845	ALA	2.9
1	T	837	SER	2.9
1	V	826	GLY	2.9
1	X	278	PRO	2.9
1	e	821	LEU	2.9
1	f	44	LEU	2.9
1	f	834	ASP	2.9
1	C	823	GLN	2.9
1	Y	828	LYS	2.9
1	Y	839	ILE	2.9
1	Z	823	GLN	2.9
1	Y	841	LEU	2.9
1	W	151	TYR	2.9
1	S	829	SER	2.9
1	a	839	ILE	2.9
1	j	80	GLN	2.9
1	K	79	GLY	2.9
1	W	842	PHE	2.9
1	b	826	GLY	2.9
1	F	221	LEU	2.9
1	W	831	LEU	2.9
1	l	839	ILE	2.9
1	Z	101	PRO	2.9
1	h	825	LEU	2.9
1	Q	80	GLN	2.9
1	b	823	GLN	2.9
1	V	19	LEU	2.9
1	e	839	ILE	2.9
1	Q	829	SER	2.9
1	h	844	THR	2.9
1	c	831	LEU	2.9
1	E	89	GLU	2.9
1	M	843	SER	2.9
1	R	79	GLY	2.9
1	R	819	VAL	2.9
1	k	834	ASP	2.9
1	N	843	SER	2.9
1	M	835	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	T	839	ILE	2.9
1	H	816	GLU	2.9
1	f	823	GLN	2.9
1	j	836	SER	2.9
1	R	105	LEU	2.9
1	V	831	LEU	2.9
1	b	14	HIS	2.9
1	G	828	LYS	2.9
1	N	828	LYS	2.9
1	P	842	PHE	2.9
1	T	42	ARG	2.9
1	W	93	ALA	2.9
1	U	819	VAL	2.9
1	f	832	ILE	2.9
1	R	825	LEU	2.9
1	a	98	PRO	2.9
1	V	41	GLU	2.9
1	e	4	GLU	2.9
1	a	817	MET	2.9
1	h	840	ASN	2.9
1	F	259	HIS	2.9
1	U	817	MET	2.9
1	N	825	LEU	2.9
1	c	823	GLN	2.9
1	i	833	THR	2.9
1	j	50	MET	2.9
1	C	259	HIS	2.9
1	F	98	PRO	2.9
1	D	816	GLU	2.9
1	U	827	LEU	2.9
1	O	833	THR	2.9
1	T	833	THR	2.9
1	W	278	PRO	2.9
1	S	828	LYS	2.9
1	f	100	TYR	2.9
1	i	26	SER	2.9
1	D	1	MET	2.8
1	X	832	ILE	2.8
1	i	819	VAL	2.8
1	W	840	ASN	2.8
1	l	842	PHE	2.8
1	d	17	HIS	2.8

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Mol	Chain	Res	Type	RSRZ
1	U	828	LYS	2.8
1	Q	841	LEU	2.8
1	b	840	ASN	2.8
1	f	844	THR	2.8
1	d	845	ALA	2.8
1	E	91	ARG	2.8
1	M	78	THR	2.8
1	W	837	SER	2.8
1	k	828	LYS	2.8
1	X	819	VAL	2.8
1	j	827	LEU	2.8
1	W	211	GLU	2.8
1	d	829	SER	2.8
1	f	845	ALA	2.8
1	k	4	GLU	2.8
1	D	823	GLN	2.8
1	l	828	LYS	2.8
1	E	174	LEU	2.8
1	L	15	TYR	2.8
1	S	842	PHE	2.8
1	f	841	LEU	2.8
1	i	837	SER	2.8
1	l	98	PRO	2.8
1	Y	832	ILE	2.8
1	d	839	ILE	2.8
1	E	55	PRO	2.8
1	K	827	LEU	2.8
1	T	819	VAL	2.8
1	f	819	VAL	2.8
1	a	828	LYS	2.8
1	W	74	LEU	2.8
1	W	841	LEU	2.8
1	V	819	VAL	2.8
1	a	845	ALA	2.8
1	I	833	THR	2.8
1	g	825	LEU	2.8
1	m	842	PHE	2.8
1	X	839	ILE	2.8
1	d	42	ARG	2.8
1	I	824	SER	2.8
1	T	825	LEU	2.8
1	g	833	THR	2.8

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Mol	Chain	Res	Type	RSRZ
1	T	93	ALA	2.8
1	W	836	SER	2.8
1	S	819	VAL	2.8
1	S	816	GLU	2.8
1	c	841	LEU	2.8
1	e	825	LEU	2.8
1	F	1	MET	2.8
1	O	829	SER	2.8
1	I	835	GLY	2.8
1	j	834	ASP	2.8
1	Y	80	GLN	2.8
1	Z	845	ALA	2.8
1	j	55	PRO	2.8
1	m	54	PRO	2.8
1	Z	817	MET	2.8
1	g	839	ILE	2.8
1	K	816	GLU	2.8
1	Z	841	LEU	2.8
1	e	841	LEU	2.8
1	Q	842	PHE	2.8
1	g	829	SER	2.8
1	Y	259	HIS	2.8
1	U	41	GLU	2.8
1	j	819	VAL	2.8
1	D	25	VAL	2.8
1	X	95	ASP	2.8
1	b	844	THR	2.8
1	F	156	GLU	2.8
1	d	4	GLU	2.8
1	j	82	ARG	2.8
1	T	842	PHE	2.7
1	X	69	THR	2.7
1	O	835	GLY	2.7
1	K	347	GLU	2.7
1	W	816	GLU	2.7
1	k	25	VAL	2.7
1	Y	829	SER	2.7
1	d	827	LEU	2.7
1	e	83	LEU	2.7
1	g	827	LEU	2.7
1	D	259	HIS	2.7
1	P	126	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	c	833	THR	2.7
1	f	825	LEU	2.7
1	j	833	THR	2.7
1	E	278	PRO	2.7
1	i	832	ILE	2.7
1	j	22	ASN	2.7
1	D	174	LEU	2.7
1	X	170	GLN	2.7
1	b	825	LEU	2.7
1	A	55	PRO	2.7
1	Y	278	PRO	2.7
1	Z	828	LYS	2.7
1	b	843	SER	2.7
1	c	28	VAL	2.7
1	j	837	SER	2.7
1	g	845	ALA	2.7
1	h	824	SER	2.7
1	c	127	LEU	2.7
1	h	841	LEU	2.7
1	G	824	SER	2.7
1	Z	98	PRO	2.7
1	e	844	THR	2.7
1	a	36	ILE	2.7
1	a	829	SER	2.7
1	Z	55	PRO	2.7
1	g	27	ARG	2.7
1	f	833	THR	2.7
1	k	833	THR	2.7
1	Q	824	SER	2.7
1	j	824	SER	2.7
1	G	36	ILE	2.7
1	k	832	ILE	2.7
1	I	1	MET	2.7
1	C	828	LYS	2.7
1	G	221	LEU	2.7
1	c	211	GLU	2.7
1	F	80	GLN	2.7
1	W	185	ARG	2.7
1	G	15	TYR	2.7
1	g	841	LEU	2.7
1	X	338	GLN	2.7
1	a	819	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	g	837	SER	2.7
1	V	825	LEU	2.7
1	Z	831	LEU	2.7
1	Z	839	ILE	2.7
1	b	827	LEU	2.7
1	h	828	LYS	2.7
1	J	47	PRO	2.7
1	J	101	PRO	2.7
1	T	836	SER	2.7
1	Y	837	SER	2.7
1	a	843	SER	2.7
1	f	9	ARG	2.7
1	e	832	ILE	2.7
1	A	816	GLU	2.7
1	K	4	GLU	2.7
1	M	824	SER	2.7
1	Q	4	GLU	2.7
1	c	819	VAL	2.7
1	h	816	GLU	2.7
1	P	82	ARG	2.7
1	a	170	GLN	2.7
1	C	836	SER	2.7
1	D	83	LEU	2.7
1	H	1	MET	2.7
1	T	828	LYS	2.7
1	Y	105	LEU	2.7
1	f	25	VAL	2.7
1	h	819	VAL	2.7
1	d	19	LEU	2.7
1	J	816	GLU	2.7
1	X	833	THR	2.7
1	Z	834	ASP	2.7
1	g	840	ASN	2.7
1	l	330	GLN	2.7
1	m	824	SER	2.7
1	E	205	LEU	2.7
1	T	14	HIS	2.7
1	E	54	PRO	2.7
1	X	840	ASN	2.7
1	E	835	GLY	2.7
1	O	824	SER	2.7
1	d	837	SER	2.7

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Mol	Chain	Res	Type	RSRZ
1	e	836	SER	2.7
1	B	816	GLU	2.6
1	G	816	GLU	2.6
1	d	833	THR	2.6
1	U	837	SER	2.6
1	j	816	GLU	2.6
1	c	827	LEU	2.6
1	c	346	GLU	2.6
1	c	844	THR	2.6
1	j	78	THR	2.6
1	X	49	ARG	2.6
1	f	36	ILE	2.6
1	g	42	ARG	2.6
1	g	842	PHE	2.6
1	j	825	LEU	2.6
1	f	837	SER	2.6
1	E	4	GLU	2.6
1	f	839	ILE	2.6
1	f	842	PHE	2.6
1	U	843	SER	2.6
1	Z	819	VAL	2.6
1	k	842	PHE	2.6
1	i	842	PHE	2.6
1	a	278	PRO	2.6
1	B	17	HIS	2.6
1	G	835	GLY	2.6
1	Y	827	LEU	2.6
1	I	25	VAL	2.6
1	X	845	ALA	2.6
1	b	845	ALA	2.6
1	c	17	HIS	2.6
1	h	834	ASP	2.6
1	D	80	GLN	2.6
1	b	817	MET	2.6
1	l	836	SER	2.6
1	c	845	ALA	2.6
1	O	816	GLU	2.6
1	X	28	VAL	2.6
1	d	825	LEU	2.6
1	i	825	LEU	2.6
1	T	1	MET	2.6
1	W	839	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	a	833	THR	2.6
1	W	25	VAL	2.6
1	g	828	LYS	2.6
1	F	45	PHE	2.6
1	W	227	LEU	2.6
1	f	19	LEU	2.6
1	B	259	HIS	2.6
1	Z	41	GLU	2.6
1	O	25	VAL	2.6
1	Y	170	GLN	2.6
1	I	49	ARG	2.6
1	Q	825	LEU	2.6
1	S	1	MET	2.6
1	T	55	PRO	2.6
1	f	840	ASN	2.6
1	F	185	ARG	2.6
1	J	78	THR	2.6
1	W	819	VAL	2.6
1	Q	816	GLU	2.6
1	e	840	ASN	2.6
1	l	832	ILE	2.6
1	Y	819	VAL	2.6
1	R	824	SER	2.6
1	T	41	GLU	2.6
1	U	839	ILE	2.6
1	c	80	GLN	2.6
1	D	824	SER	2.6
1	k	824	SER	2.6
1	K	98	PRO	2.6
1	X	841	LEU	2.6
1	l	824	SER	2.6
1	N	42	ARG	2.6
1	L	149	GLY	2.6
1	R	836	SER	2.6
1	Y	842	PHE	2.6
1	b	837	SER	2.6
1	P	80	GLN	2.6
1	K	9	ARG	2.6
1	L	824	SER	2.6
1	X	837	SER	2.6
1	H	278	PRO	2.6
1	X	5	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	843	SER	2.5
1	H	824	SER	2.5
1	V	828	LYS	2.5
1	g	824	SER	2.5
1	B	79	GLY	2.5
1	A	27	ARG	2.5
1	B	28	VAL	2.5
1	B	834	ASP	2.5
1	m	74	LEU	2.5
1	a	57	HIS	2.5
1	D	4	GLU	2.5
1	H	41	GLU	2.5
1	T	827	LEU	2.5
1	b	816	GLU	2.5
1	C	98	PRO	2.5
1	f	98	PRO	2.5
1	X	825	LEU	2.5
1	Z	825	LEU	2.5
1	D	185	ARG	2.5
1	R	828	LYS	2.5
1	V	82	ARG	2.5
1	Y	824	SER	2.5
1	d	329	GLN	2.5
1	J	4	GLU	2.5
1	i	221	LEU	2.5
1	E	34	THR	2.5
1	F	151	TYR	2.5
1	d	842	PHE	2.5
1	j	842	PHE	2.5
1	F	824	SER	2.5
1	l	28	VAL	2.5
1	F	34	THR	2.5
1	X	828	LYS	2.5
1	c	840	ASN	2.5
1	i	839	ILE	2.5
1	k	36	ILE	2.5
1	K	80	GLN	2.5
1	Q	28	VAL	2.5
1	A	834	ASP	2.5
1	D	98	PRO	2.5
1	W	14	HIS	2.5
1	X	221	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
1	a	840	ASN	2.5
1	f	4	GLU	2.5
1	V	834	ASP	2.5
1	I	26	SER	2.5
1	e	837	SER	2.5
1	d	840	ASN	2.5
1	e	49	ARG	2.5
1	f	41	GLU	2.5
1	K	278	PRO	2.5
1	E	109	ILE	2.5
1	V	842	PHE	2.5
1	Z	835	GLY	2.5
1	a	55	PRO	2.5
1	b	819	VAL	2.5
1	E	259	HIS	2.5
1	Q	185	ARG	2.5
1	C	824	SER	2.5
1	S	843	SER	2.5
1	L	126	LEU	2.5
1	X	215	LEU	2.5
1	h	827	LEU	2.5
1	V	816	GLU	2.5
1	B	19	LEU	2.5
1	b	841	LEU	2.5
1	U	26	SER	2.5
1	d	1	MET	2.5
1	j	828	LYS	2.5
1	m	27	ARG	2.5
1	I	105	LEU	2.5
1	K	45	PHE	2.5
1	X	185	ARG	2.5
1	Z	832	ILE	2.5
1	T	843	SER	2.5
1	i	41	GLU	2.5
1	F	35	TYR	2.5
1	b	828	LYS	2.5
1	F	101	PRO	2.5
1	c	825	LEU	2.5
1	c	828	LYS	2.5
1	V	843	SER	2.5
1	S	833	THR	2.5
1	Z	14	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
1	l	84	ARG	2.5
1	B	101	PRO	2.4
1	a	28	VAL	2.4
1	Q	828	LYS	2.4
1	a	837	SER	2.4
1	A	42	ARG	2.4
1	d	15	TYR	2.4
1	O	843	SER	2.4
1	X	268	LEU	2.4
1	E	171	ASN	2.4
1	G	278	PRO	2.4
1	K	824	SER	2.4
1	R	843	SER	2.4
1	m	843	SER	2.4
1	U	816	GLU	2.4
1	W	828	LYS	2.4
1	E	177	ARG	2.4
1	d	819	VAL	2.4
1	P	833	THR	2.4
1	S	185	ARG	2.4
1	m	102	GLY	2.4
1	E	25	VAL	2.4
1	Z	25	VAL	2.4
1	h	839	ILE	2.4
1	S	824	SER	2.4
1	i	824	SER	2.4
1	S	25	VAL	2.4
1	m	828	LYS	2.4
1	Z	824	SER	2.4
1	X	37	ARG	2.4
1	X	199	ARG	2.4
1	L	221	LEU	2.4
1	C	843	SER	2.4
1	E	78	THR	2.4
1	Q	19	LEU	2.4
1	S	97	PHE	2.4
1	P	843	SER	2.4
1	Y	91	ARG	2.4
1	J	33	LYS	2.4
1	Z	837	SER	2.4
1	m	109	ILE	2.4
1	T	19	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	824	SER	2.4
1	W	824	SER	2.4
1	B	828	LYS	2.4
1	N	816	GLU	2.4
1	S	825	LEU	2.4
1	c	49	ARG	2.4
1	i	42	ARG	2.4
1	I	81	VAL	2.4
1	P	824	SER	2.4
1	R	4	GLU	2.4
1	g	539	LEU	2.4
1	X	36	ILE	2.4
1	A	836	SER	2.4
1	M	278	PRO	2.4
1	J	22	ASN	2.4
1	d	83	LEU	2.4
1	l	4	GLU	2.4
1	Z	812	VAL	2.4
1	m	25	VAL	2.4
1	Y	833	THR	2.4
1	W	126	LEU	2.4
1	Z	842	PHE	2.4
1	a	259	HIS	2.4
1	b	833	THR	2.4
1	d	841	LEU	2.4
1	k	816	GLU	2.4
1	V	824	SER	2.4
1	l	126	LEU	2.4
1	G	27	ARG	2.4
1	V	832	ILE	2.4
1	A	828	LYS	2.4
1	b	842	PHE	2.4
1	J	824	SER	2.3
1	R	15	TYR	2.3
1	T	27	ARG	2.3
1	X	15	TYR	2.3
1	W	19	LEU	2.3
1	J	156	GLU	2.3
1	d	824	SER	2.3
1	X	824	SER	2.3
1	B	15	TYR	2.3
1	K	81	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	Q	346	GLU	2.3
1	T	824	SER	2.3
1	b	824	SER	2.3
1	j	4	GLU	2.3
1	P	211	GLU	2.3
1	d	828	LYS	2.3
1	G	92	LEU	2.3
1	E	47	PRO	2.3
1	O	42	ARG	2.3
1	Z	211	GLU	2.3
1	S	836	SER	2.3
1	e	828	LYS	2.3
1	X	92	LEU	2.3
1	D	91	ARG	2.3
1	Y	834	ASP	2.3
1	F	81	VAL	2.3
1	M	816	GLU	2.3
1	W	843	SER	2.3
1	b	10	ILE	2.3
1	i	259	HIS	2.3
1	U	842	PHE	2.3
1	Y	221	LEU	2.3
1	J	151	TYR	2.3
1	P	828	LYS	2.3
1	g	834	ASP	2.3
1	Q	148	PRO	2.3
1	R	50	MET	2.3
1	f	1	MET	2.3
1	A	843	SER	2.3
1	G	14	HIS	2.3
1	X	14	HIS	2.3
1	Y	835	GLY	2.3
1	f	539	LEU	2.3
1	k	98	PRO	2.3
1	F	9	ARG	2.3
1	K	36	ILE	2.3
1	R	221	LEU	2.3
1	D	35	TYR	2.3
1	l	843	SER	2.3
1	b	834	ASP	2.3
1	e	842	PHE	2.3
1	m	56	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	E	824	SER	2.3
1	P	44	LEU	2.3
1	i	22	ASN	2.3
1	Y	25	VAL	2.3
1	W	1	MET	2.3
1	e	55	PRO	2.3
1	H	42	ARG	2.3
1	d	81	VAL	2.3
1	Z	29	GLU	2.3
1	h	842	PHE	2.2
1	l	29	GLU	2.2
1	E	105	LEU	2.2
1	Y	83	LEU	2.2
1	K	346	GLU	2.2
1	V	798	MET	2.2
1	W	17	HIS	2.2
1	d	834	ASP	2.2
1	D	42	ARG	2.2
1	L	44	LEU	2.2
1	R	49	ARG	2.2
1	j	843	SER	2.2
1	R	816	GLU	2.2
1	Y	211	GLU	2.2
1	D	15	TYR	2.2
1	D	197	LEU	2.2
1	m	67	ARG	2.2
1	J	185	ARG	2.2
1	b	101	PRO	2.2
1	R	259	HIS	2.2
1	Q	45	PHE	2.2
1	X	835	GLY	2.2
1	Y	101	PRO	2.2
1	d	36	ILE	2.2
1	S	827	LEU	2.2
1	K	116	LEU	2.2
1	B	278	PRO	2.2
1	S	148	PRO	2.2
1	e	48	VAL	2.2
1	X	842	PHE	2.2
1	V	50	MET	2.2
1	m	816	GLU	2.2
1	P	836	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	G	156	GLU	2.2
1	X	50	MET	2.2
1	Y	95	ASP	2.2
1	G	151	TYR	2.2
1	X	843	SER	2.2
1	H	82	ARG	2.2
1	f	824	SER	2.2
1	X	205	LEU	2.2
1	J	91	ARG	2.2
1	W	835	GLY	2.2
1	L	146	GLU	2.2
1	a	824	SER	2.2
1	d	98	PRO	2.2
1	j	101	PRO	2.2
1	I	126	LEU	2.2
1	F	74	LEU	2.2
1	K	812	VAL	2.2
1	k	843	SER	2.2
1	A	101	PRO	2.2
1	Q	347	GLU	2.2
1	U	824	SER	2.2
1	K	19	LEU	2.2
1	L	91	ARG	2.2
1	L	98	PRO	2.1
1	c	278	PRO	2.1
1	Y	92	LEU	2.1
1	e	816	GLU	2.1
1	M	94	GLN	2.1
1	d	832	ILE	2.1
1	F	199	ARG	2.1
1	L	45	PHE	2.1
1	Y	151	TYR	2.1
1	m	49	ARG	2.1
1	g	843	SER	2.1
1	T	4	GLU	2.1
1	i	211	GLU	2.1
1	V	15	TYR	2.1
1	b	54	PRO	2.1
1	S	83	LEU	2.1
1	T	15	TYR	2.1
1	D	44	LEU	2.1
1	S	74	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	Z	816	GLU	2.1
1	a	211	GLU	2.1
1	c	84	ARG	2.1
1	I	278	PRO	2.1
1	e	17	HIS	2.1
1	j	100	TYR	2.1
1	G	7	ILE	2.1
1	E	49	ARG	2.1
1	F	95	ASP	2.1
1	I	17	HIS	2.1
1	a	41	GLU	2.1
1	L	25	VAL	2.1
1	e	80	GLN	2.1
1	C	14	HIS	2.1
1	O	19	LEU	2.1
1	T	798	MET	2.1
1	W	834	ASP	2.1
1	a	50	MET	2.1
1	e	19	LEU	2.1
1	d	41	GLU	2.1
1	l	816	GLU	2.1
1	C	105	LEU	2.1
1	J	15	TYR	2.1
1	e	1	MET	2.1
1	Y	29	GLU	2.1
1	h	539	LEU	2.1
1	f	843	SER	2.1
1	g	25	VAL	2.1
1	i	843	SER	2.1
1	m	4	GLU	2.1
1	R	94	GLN	2.1
1	S	164	GLN	2.1
1	V	98	PRO	2.1
1	B	215	LEU	2.1
1	Y	35	TYR	2.1
1	b	259	HIS	2.1
1	i	828	LYS	2.1
1	Q	41	GLU	2.1
1	M	55	PRO	2.1
1	D	221	LEU	2.1
1	I	18	VAL	2.1
1	e	794	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	k	100	TYR	2.1
1	G	91	ARG	2.1
1	V	86	ALA	2.1
1	W	4	GLU	2.1
1	J	77	ILE	2.1
1	k	278	PRO	2.1
1	L	22	ASN	2.1
1	V	126	LEU	2.1
1	f	15	TYR	2.1
1	A	278	PRO	2.1
1	J	54	PRO	2.1
1	A	83	LEU	2.1
1	a	842	PHE	2.1
1	f	79	GLY	2.1
1	F	11	PRO	2.1
1	W	5	GLU	2.1
1	Y	344	GLU	2.1
1	d	37	ARG	2.1
1	Y	119	THR	2.1
1	d	278	PRO	2.1
1	a	337	LEU	2.1
1	F	15	TYR	2.1
1	L	347	GLU	2.1
1	F	105	LEU	2.1
1	i	816	GLU	2.1
1	i	1	MET	2.1
1	l	329	GLN	2.1
1	I	101	PRO	2.1
1	Y	365	TYR	2.1
1	e	81	VAL	2.1
1	G	259	HIS	2.1
1	J	14	HIS	2.1
1	T	259	HIS	2.1
1	e	824	SER	2.1
1	D	79	GLY	2.0
1	Q	843	SER	2.0
1	Z	93	ALA	2.0
1	c	824	SER	2.0
1	j	798	MET	2.0
1	P	816	GLU	2.0
1	Q	211	GLU	2.0
1	B	170	GLN	2.0

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Mol	Chain	Res	Type	RSRZ
1	Q	259	HIS	2.0
1	Y	816	GLU	2.0
1	h	79	GLY	2.0
1	K	37	ARG	2.0
1	b	26	SER	2.0
1	K	57	HIS	2.0
1	L	33	LYS	2.0
1	V	48	VAL	2.0
1	W	259	HIS	2.0
1	W	798	MET	2.0
1	A	100	TYR	2.0
1	E	197	LEU	2.0
1	Y	74	LEU	2.0
1	Y	279	ARG	2.0
1	d	259	HIS	2.0
1	E	37	ARG	2.0
1	P	78	THR	2.0
1	H	221	LEU	2.0
1	T	148	PRO	2.0
1	Y	19	LEU	2.0
1	m	64	PRO	2.0
1	H	812	VAL	2.0
1	J	111	PRO	2.0
1	M	98	PRO	2.0
1	W	47	PRO	2.0
1	d	185	ARG	2.0
1	T	17	HIS	2.0
1	c	539	LEU	2.0
1	W	48	VAL	2.0
1	X	834	ASP	2.0
1	Y	539	LEU	2.0
1	G	836	SER	2.0
1	f	828	LYS	2.0
1	m	13	TYR	2.0
1	E	98	PRO	2.0
1	E	836	SER	2.0
1	X	24	ASN	2.0
1	l	44	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.