



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 12:35 AM UTC

PDB ID : 4V60 / pdb_00004v60
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 X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

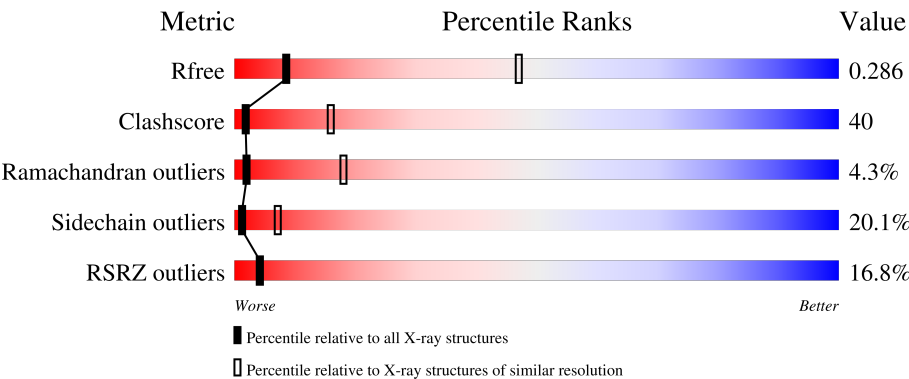
MolProbity : 4-5-2 with Phenix2.0
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

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}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)

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

Mol	Chain	Length	Quality of chain
1	A	861	15% 40%42%12%6%
1	B	861	15% 41%41%11%6%
1	C	861	14% 41%40%12%6%
1	D	861	13% 38%42%12%6%
1	E	861	16% 39%43%12%6%

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Mol	Chain	Length	Quality of chain
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	
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	

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Mol	Chain	Length	Quality of chain
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 hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called 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 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	R	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	S	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	T	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	U	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	V	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	W	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	X	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	Y	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	Z	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	a	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	b	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	c	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	d	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	e	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	f	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	g	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	h	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	i	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	j	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30
1	k	812	Total 6204	C 3915	N 1101	O 1172	S 16	0	0	30

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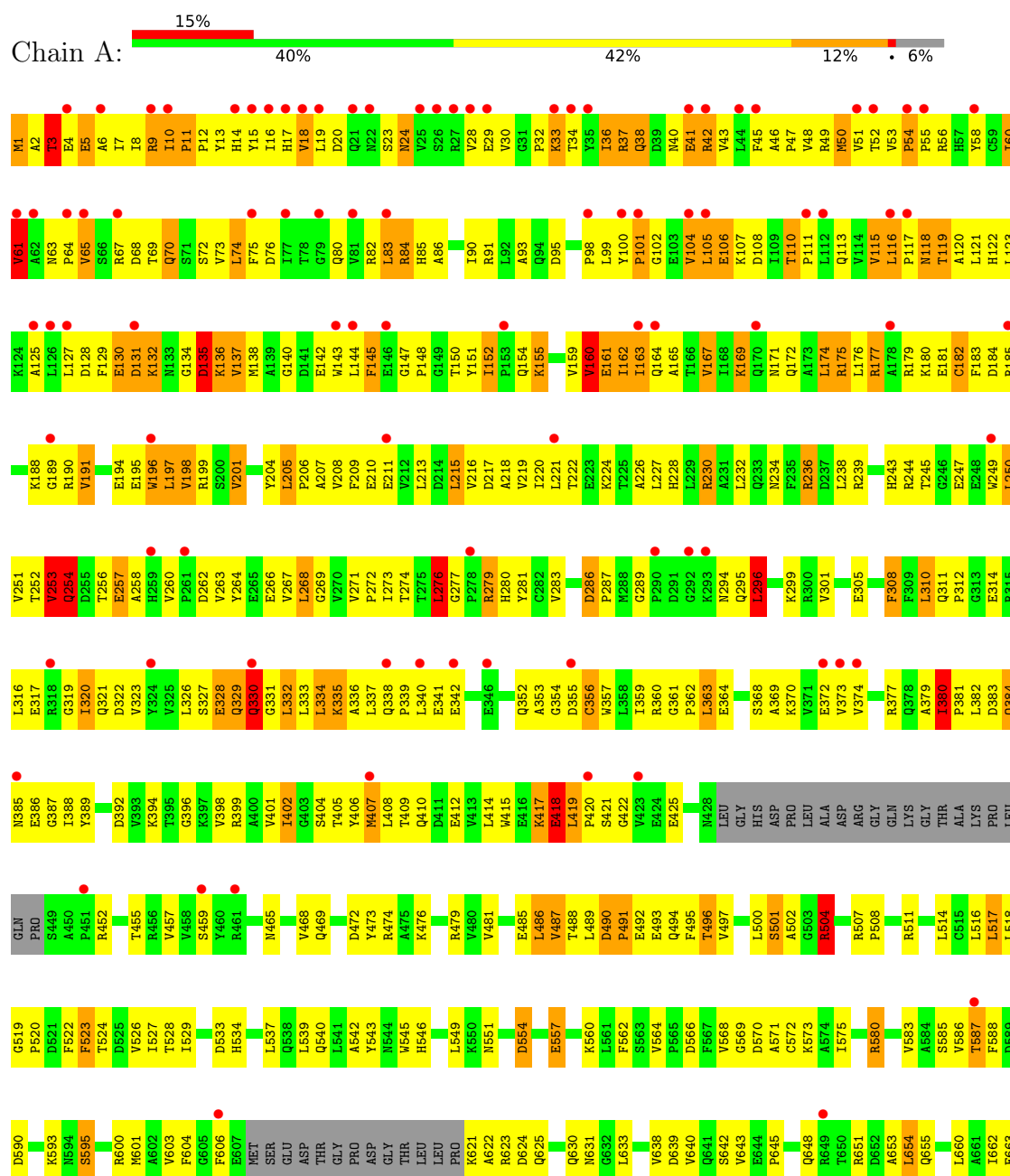
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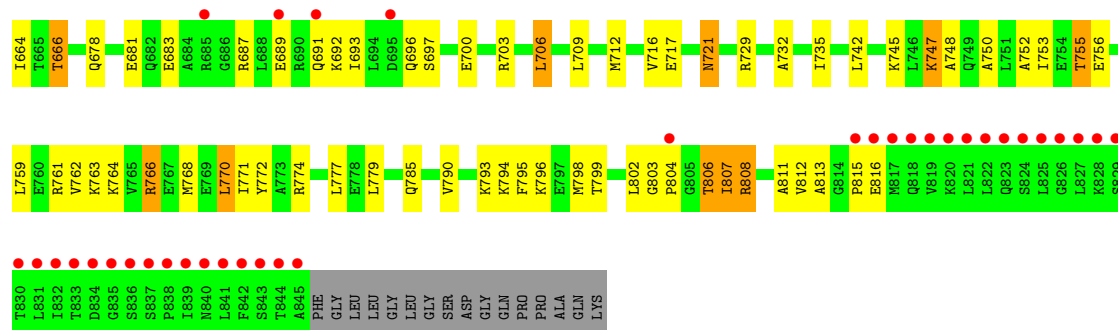
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	l	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			
1	m	812	Total	C	N	O	S	0	0	30
			6204	3915	1101	1172	16			

3 Residue-property plots

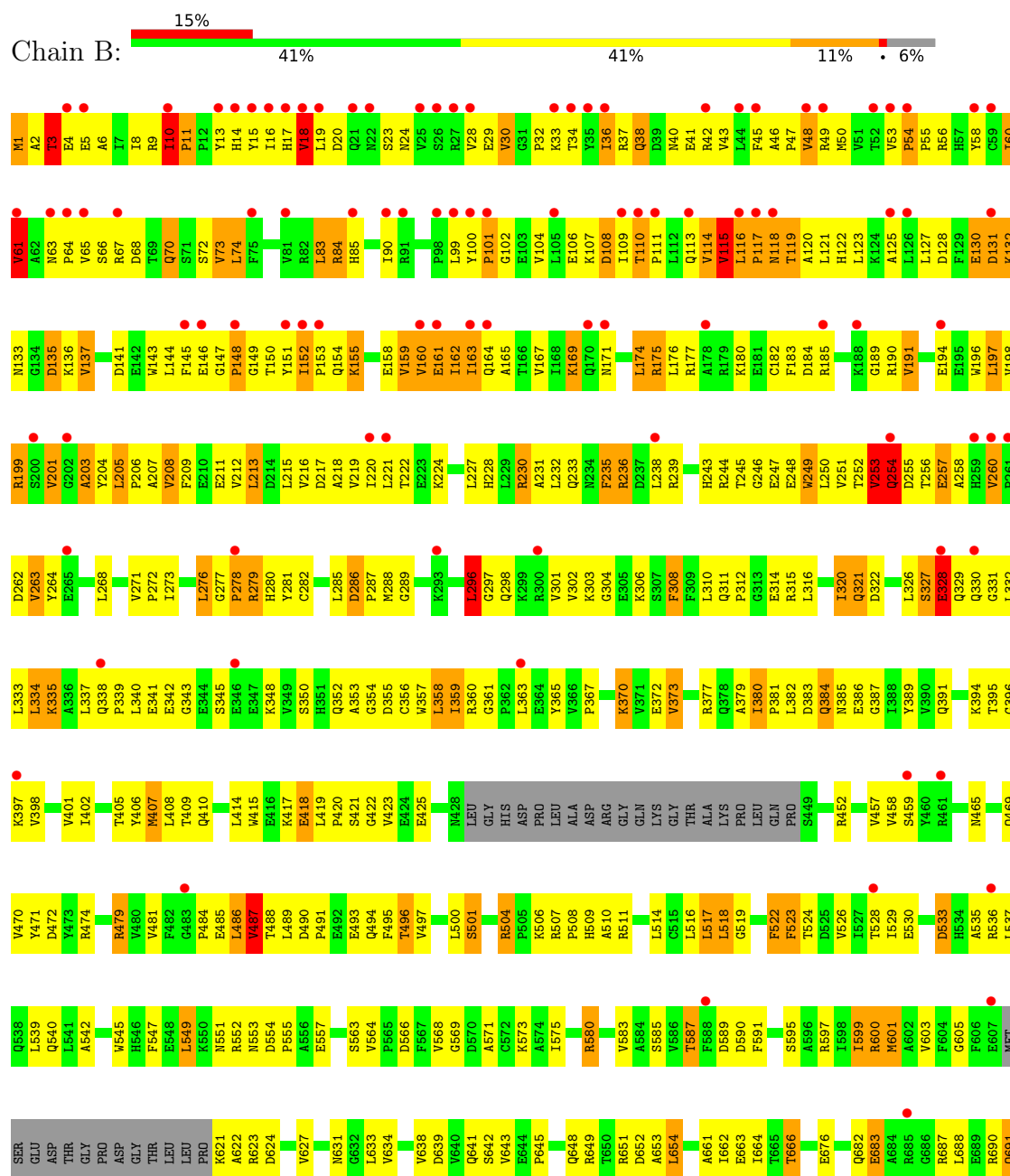
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: Major vault protein

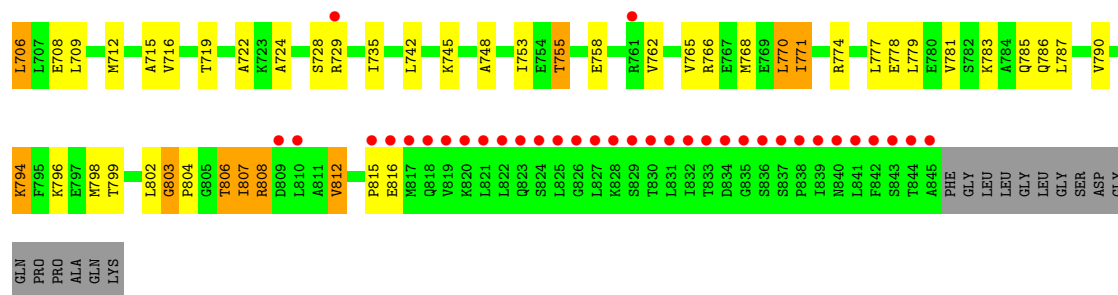




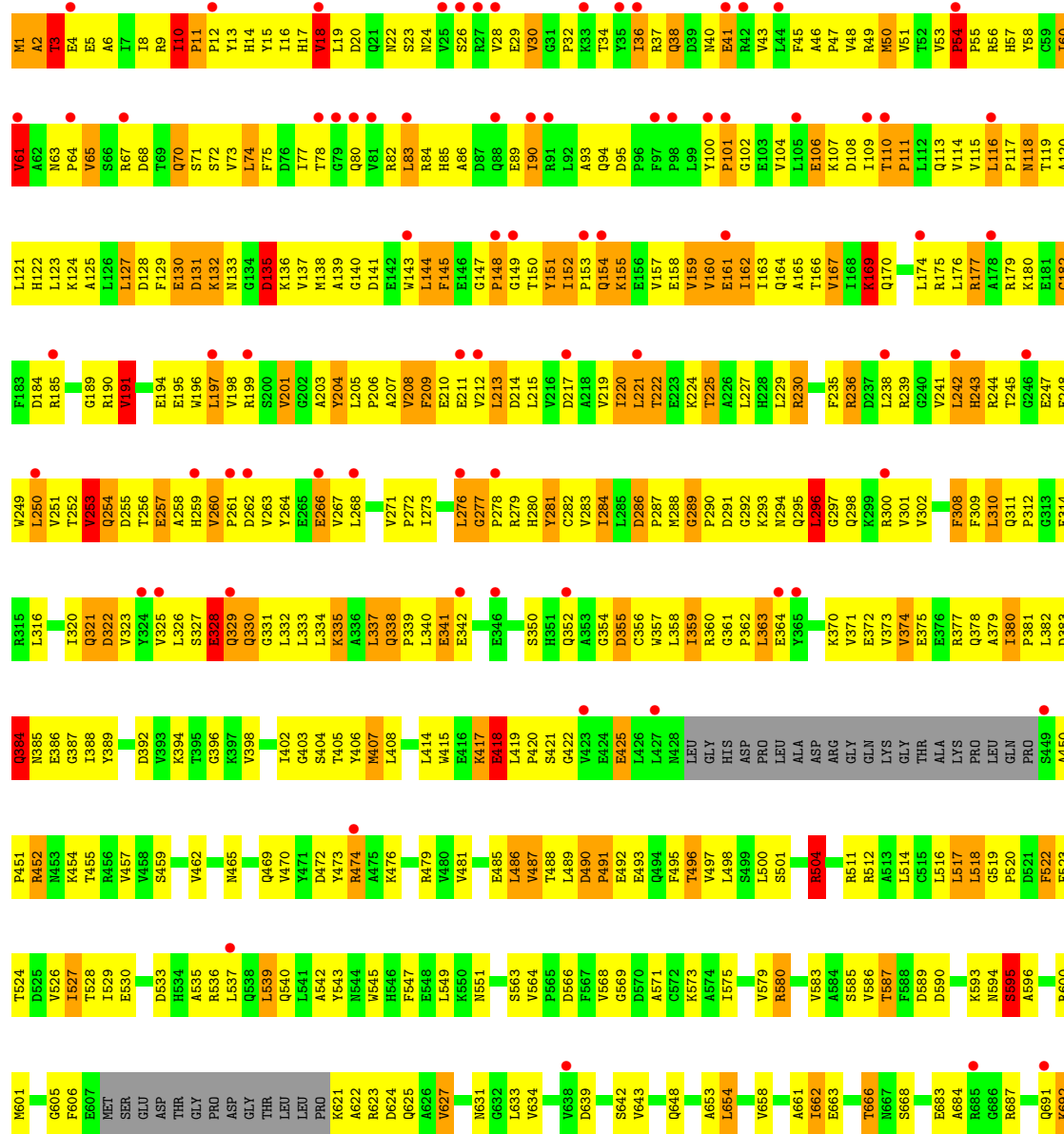
• Molecule 1: Major vault protein

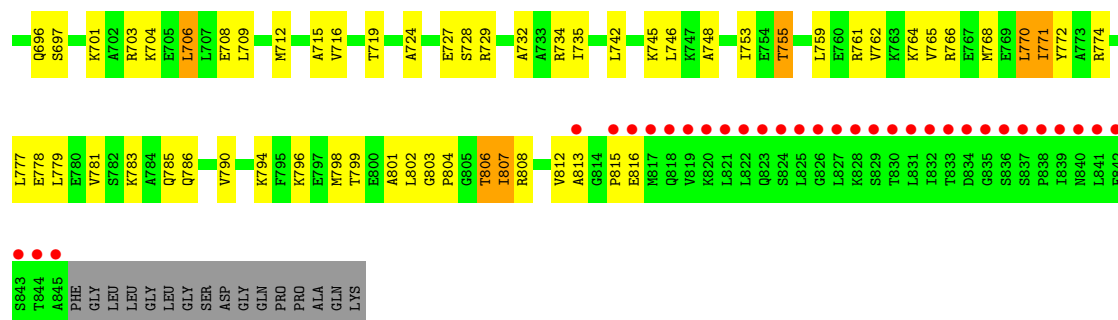




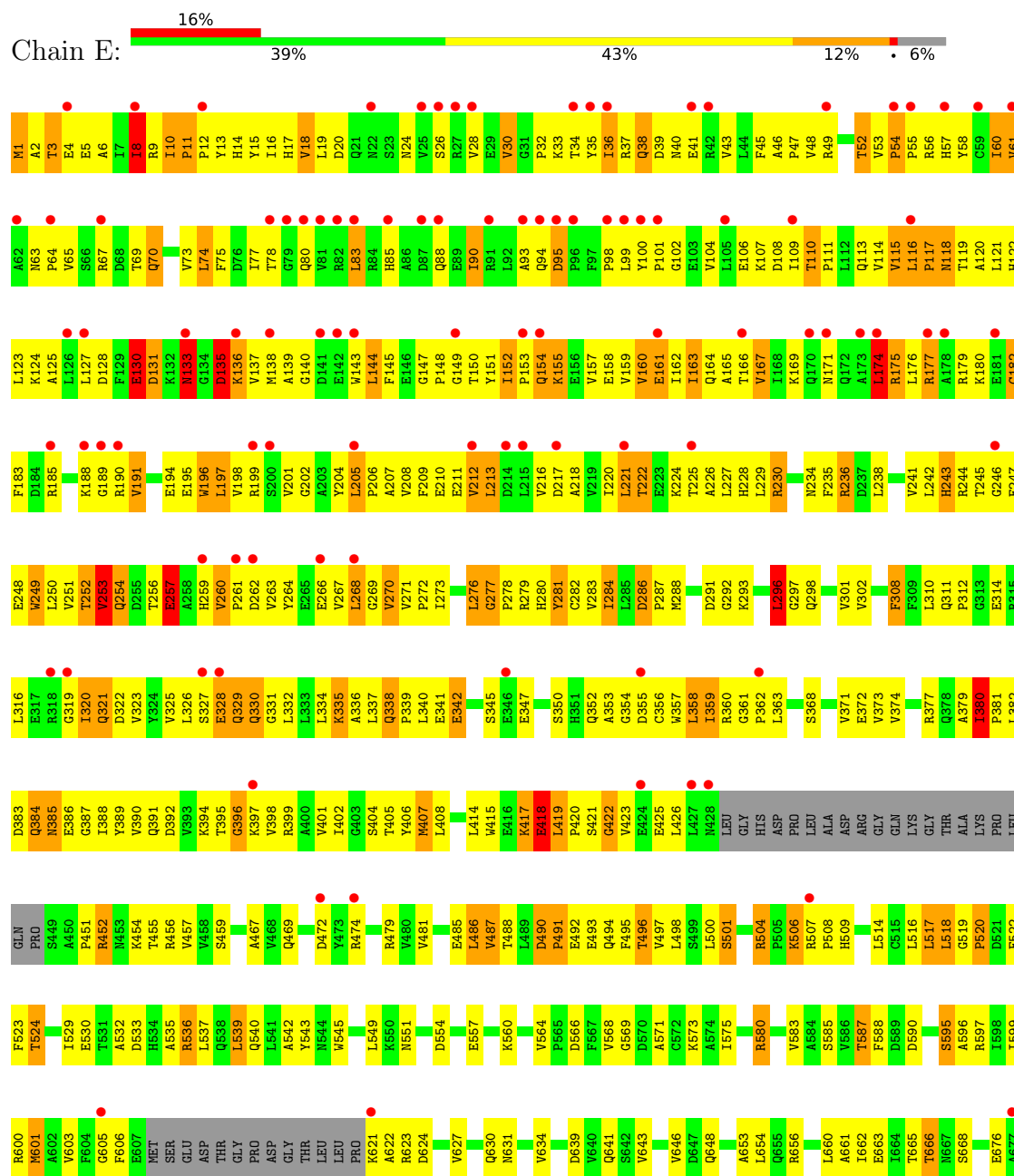


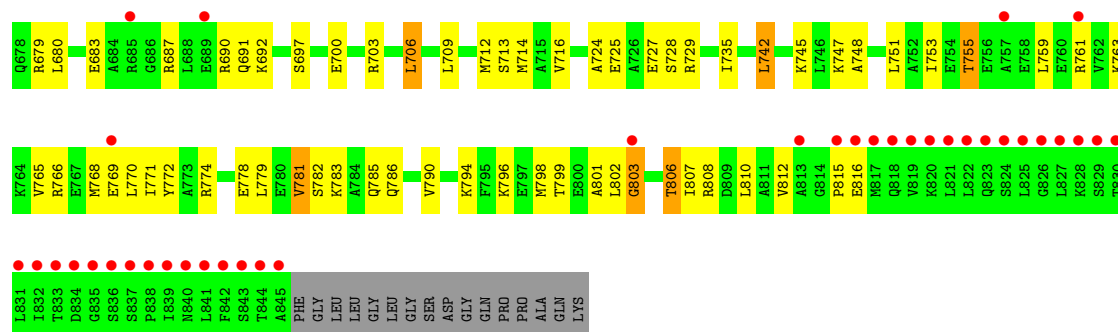
• Molecule 1: Major vault protein



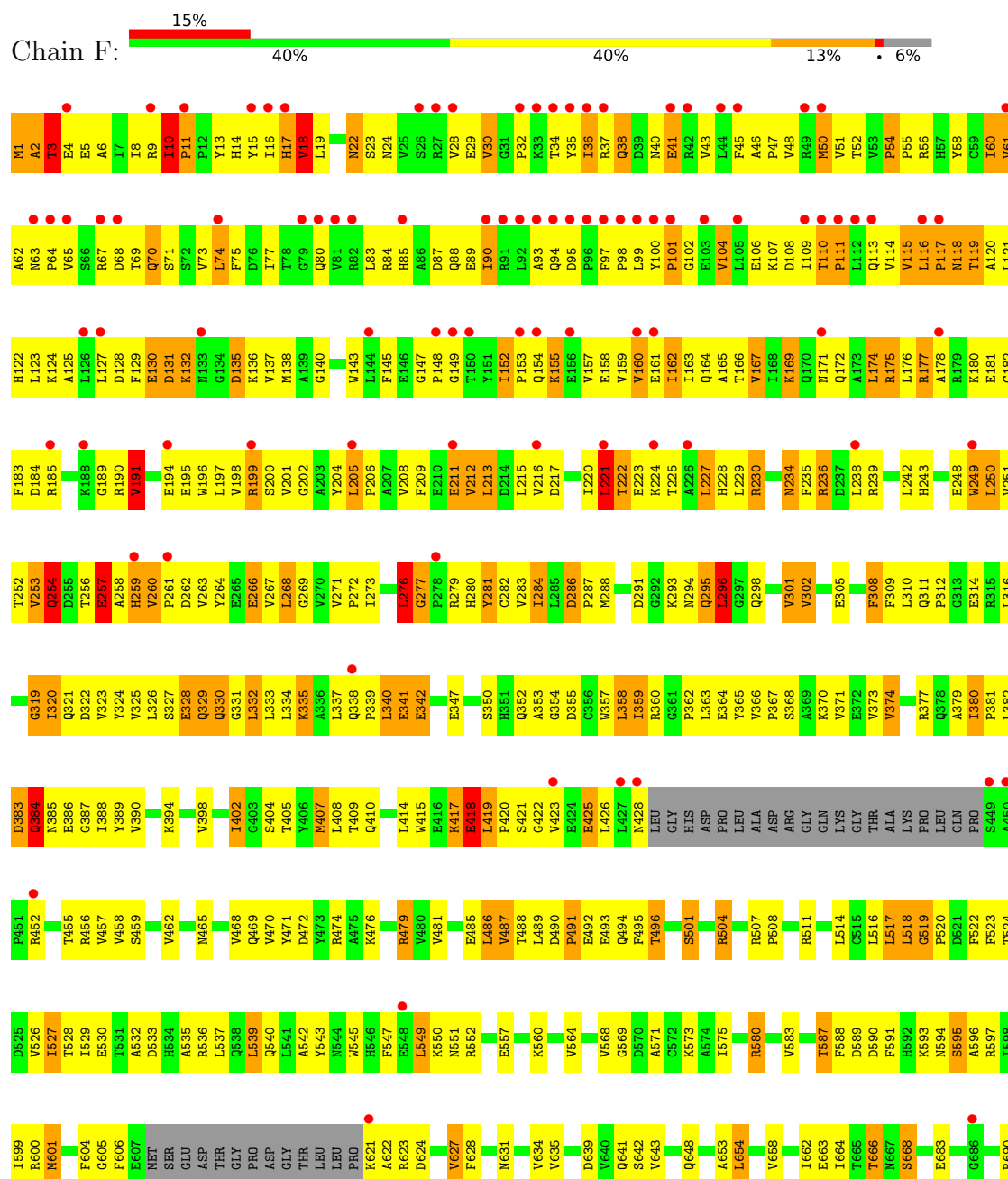


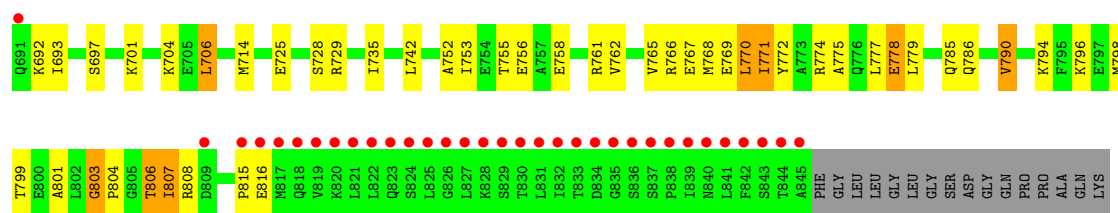
• Molecule 1: Major vault protein



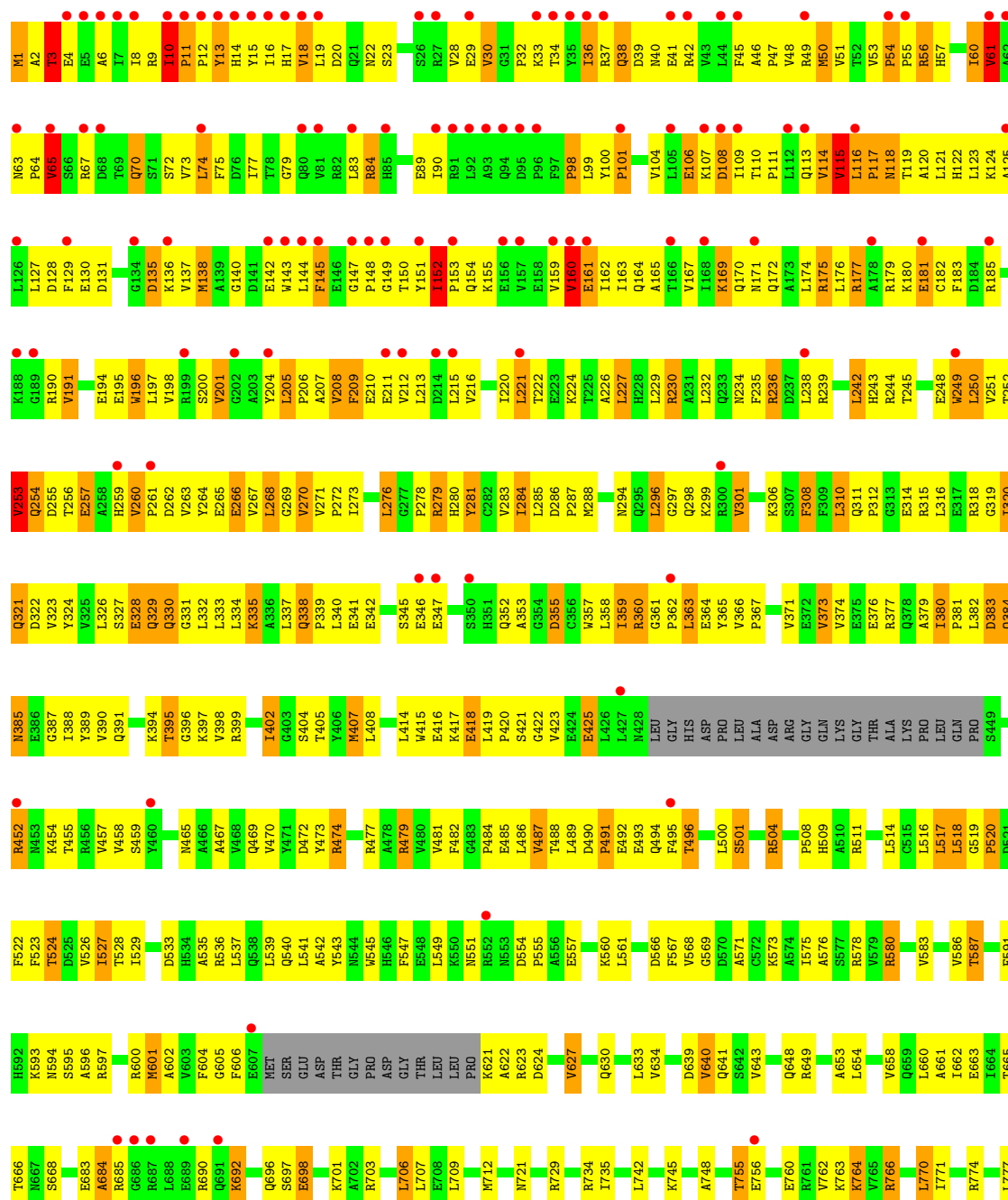


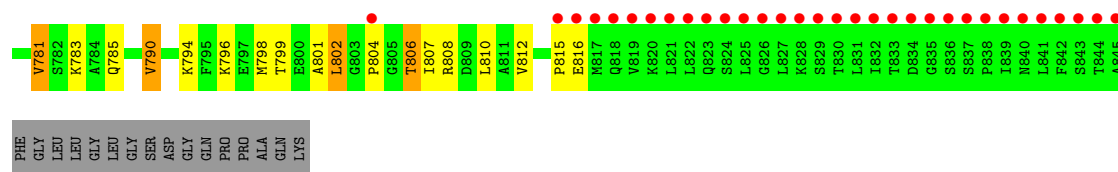
• Molecule 1: Major vault protein



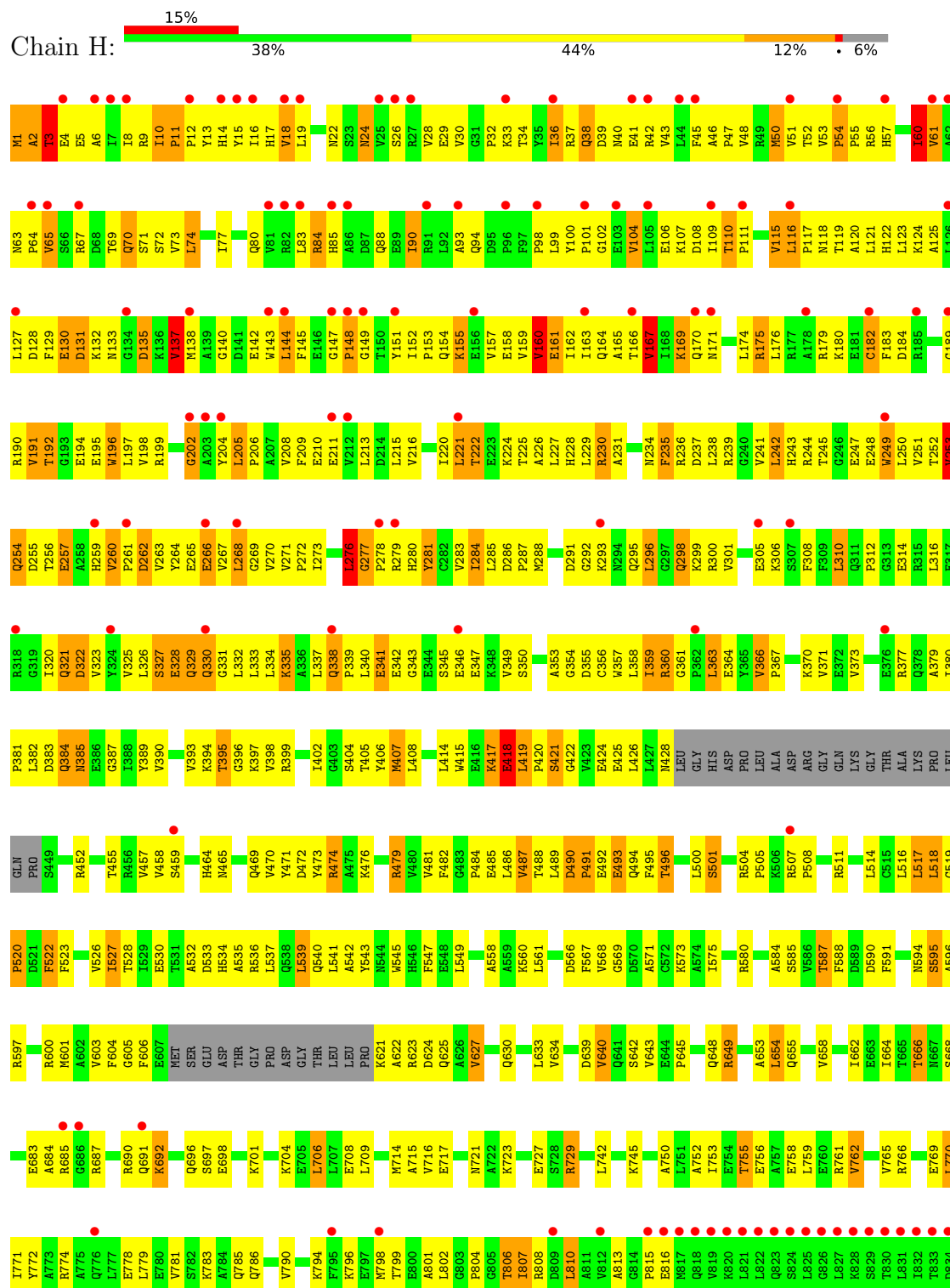


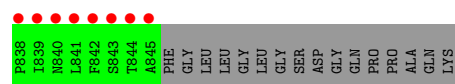
• Molecule 1: Major vault protein



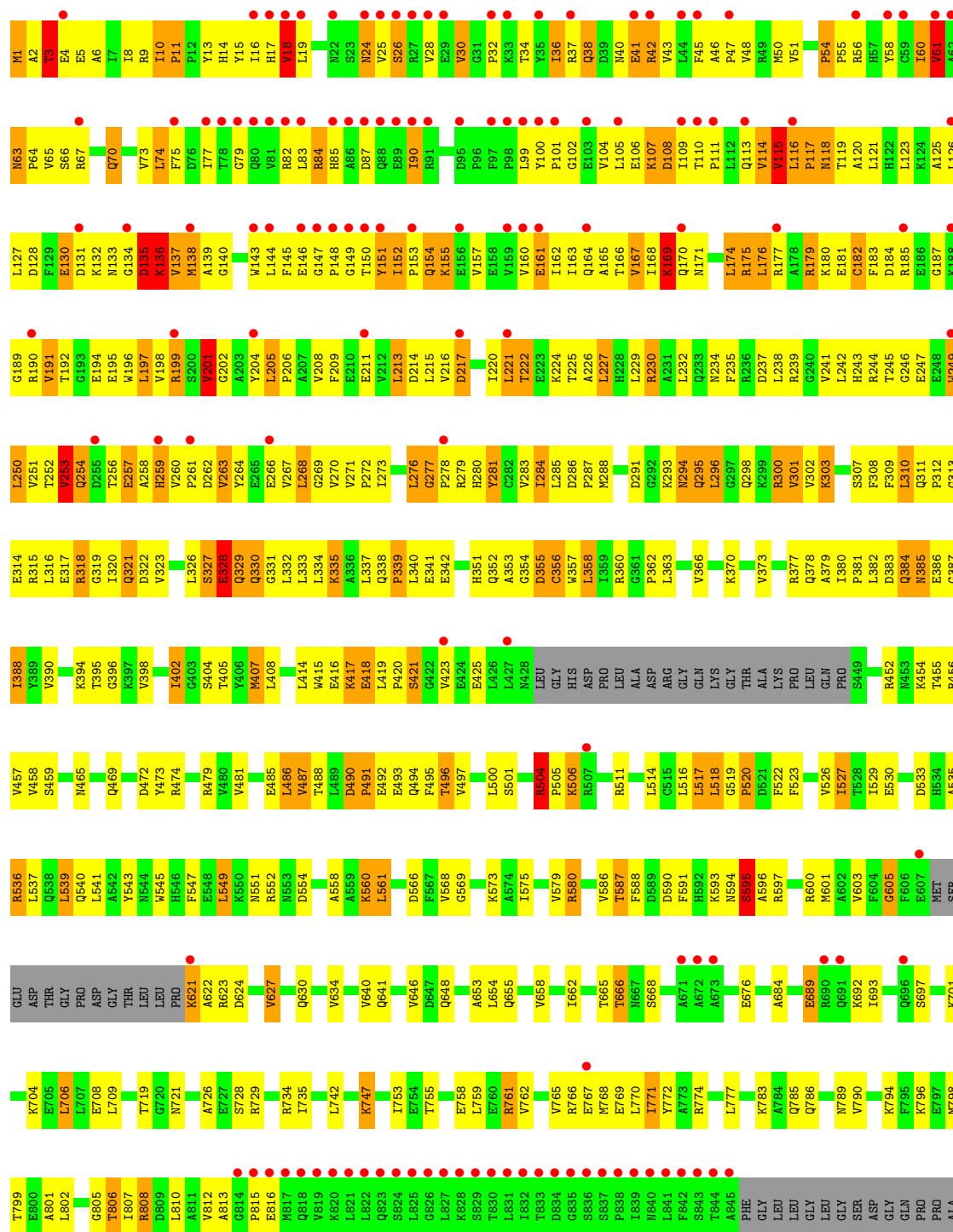


• Molecule 1: Major vault protein



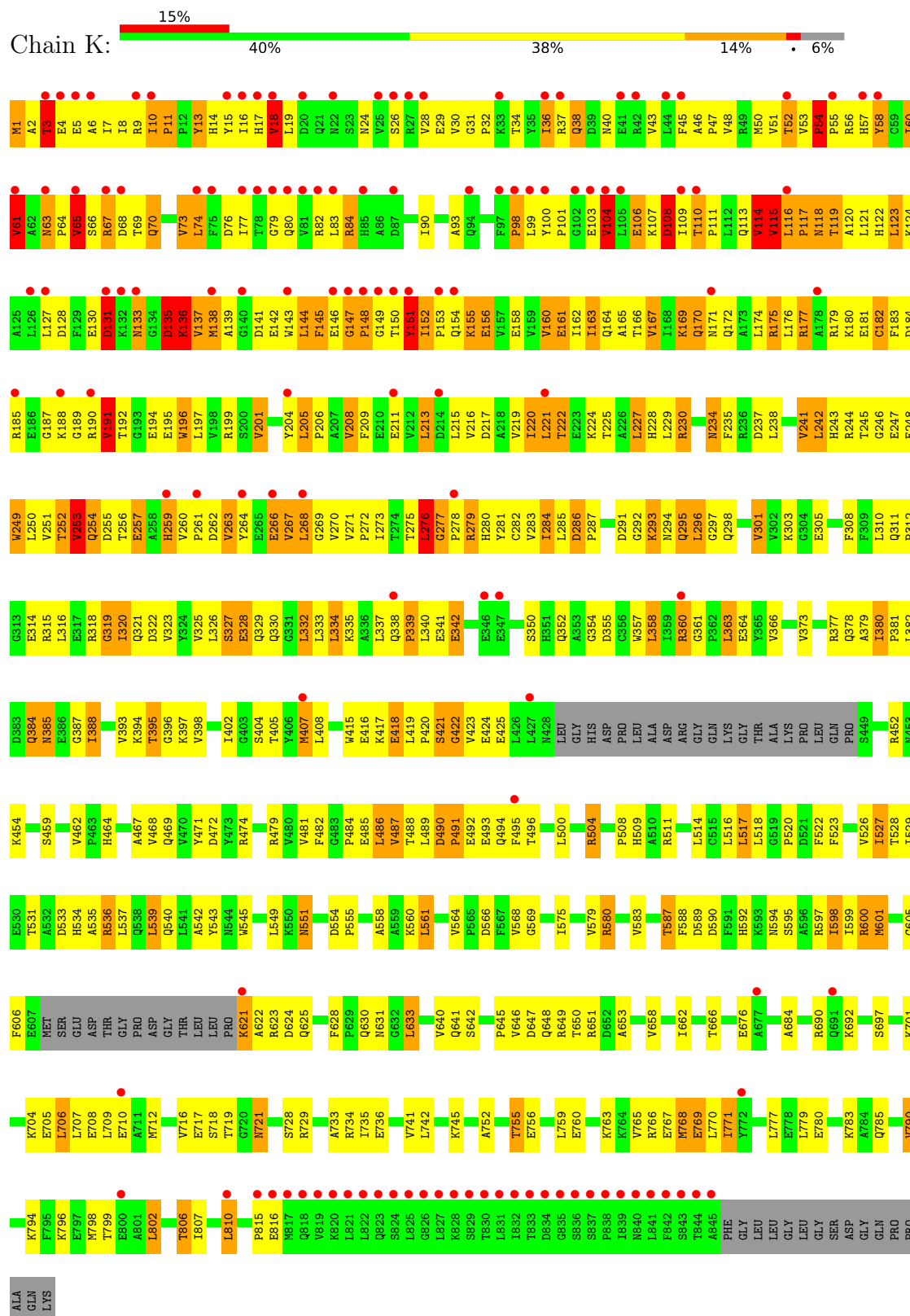


• Molecule 1: Major vault protein

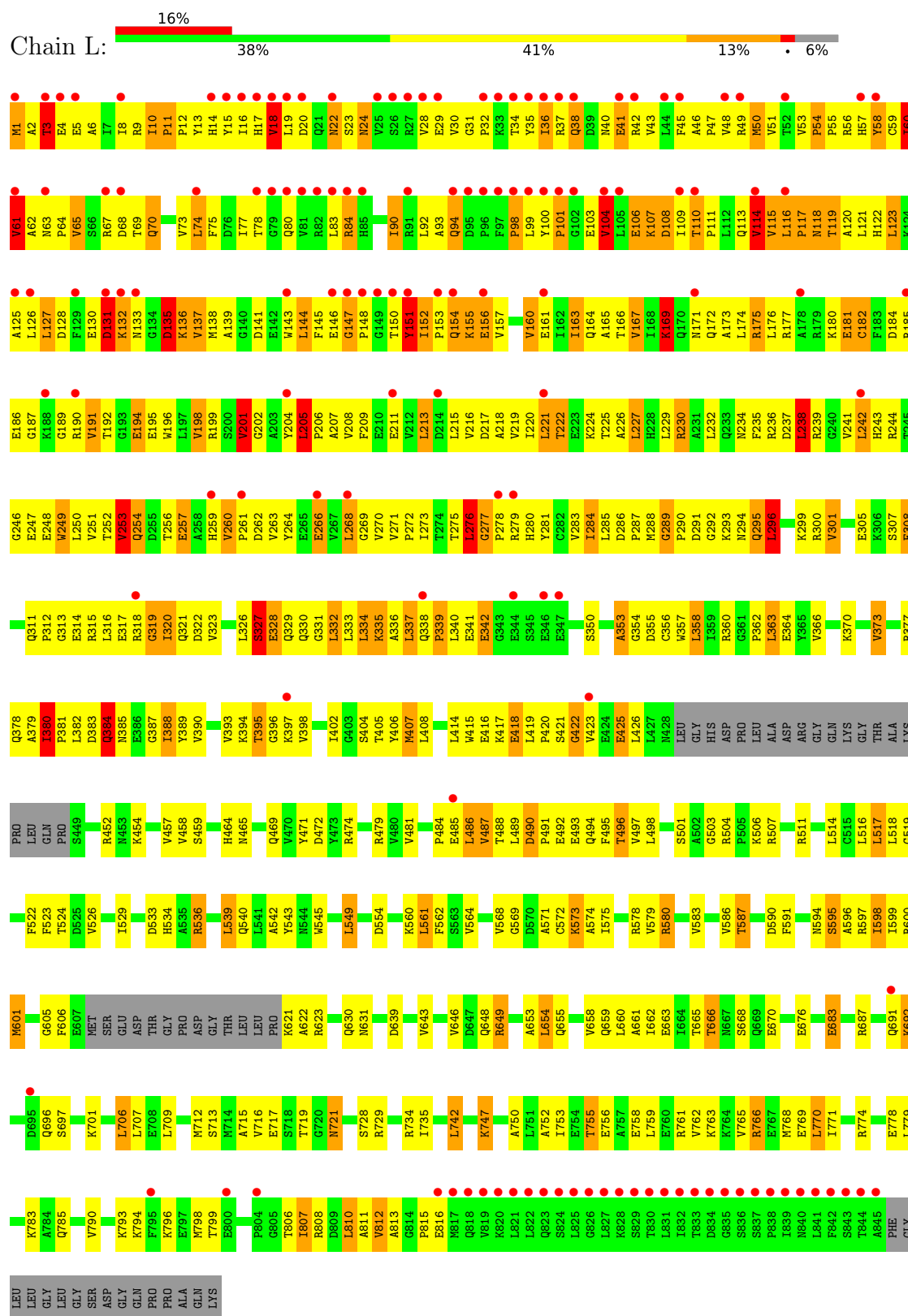


GLN
LYS

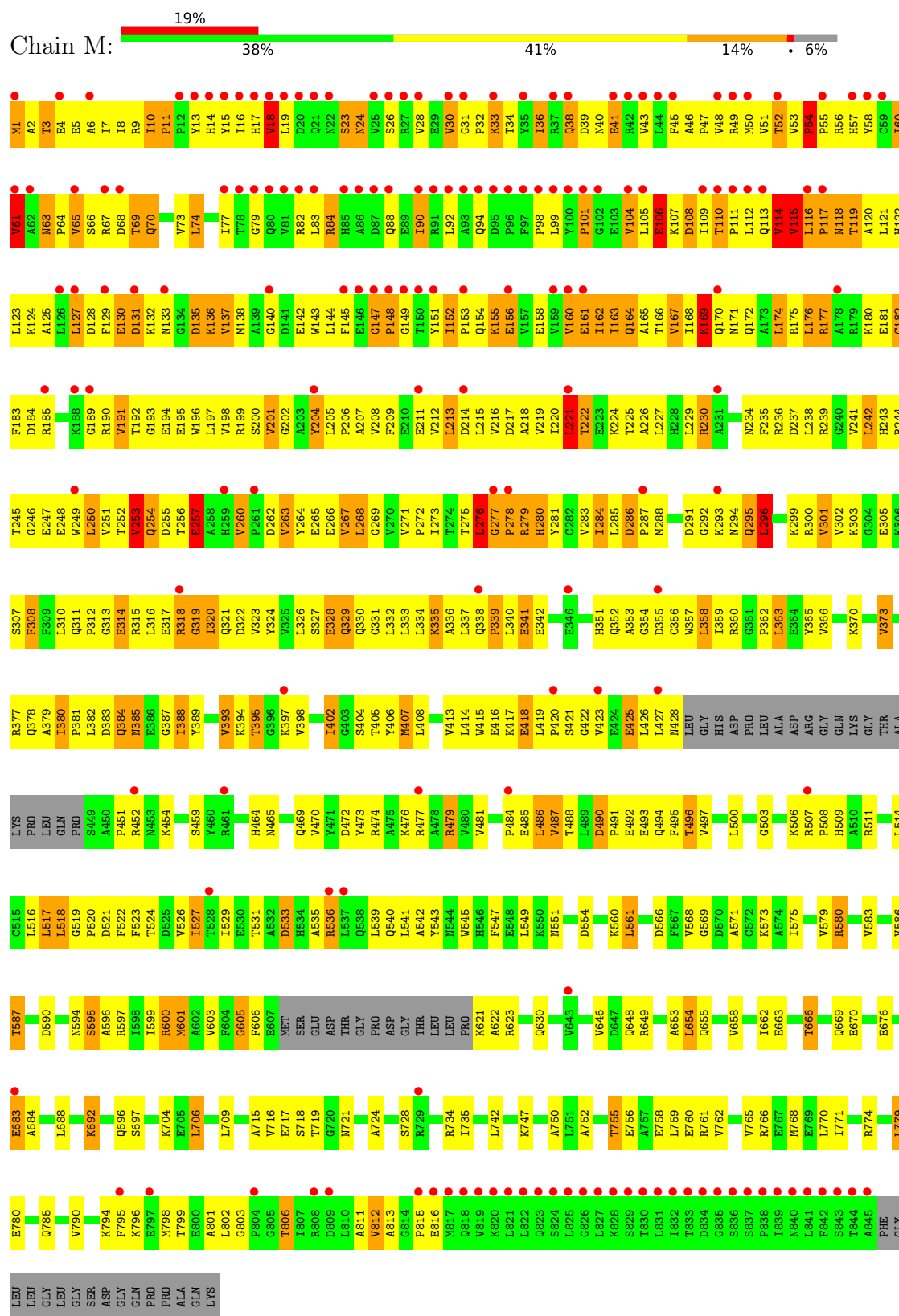
• Molecule 1: Major vault protein



• Molecule 1: Major vault protein

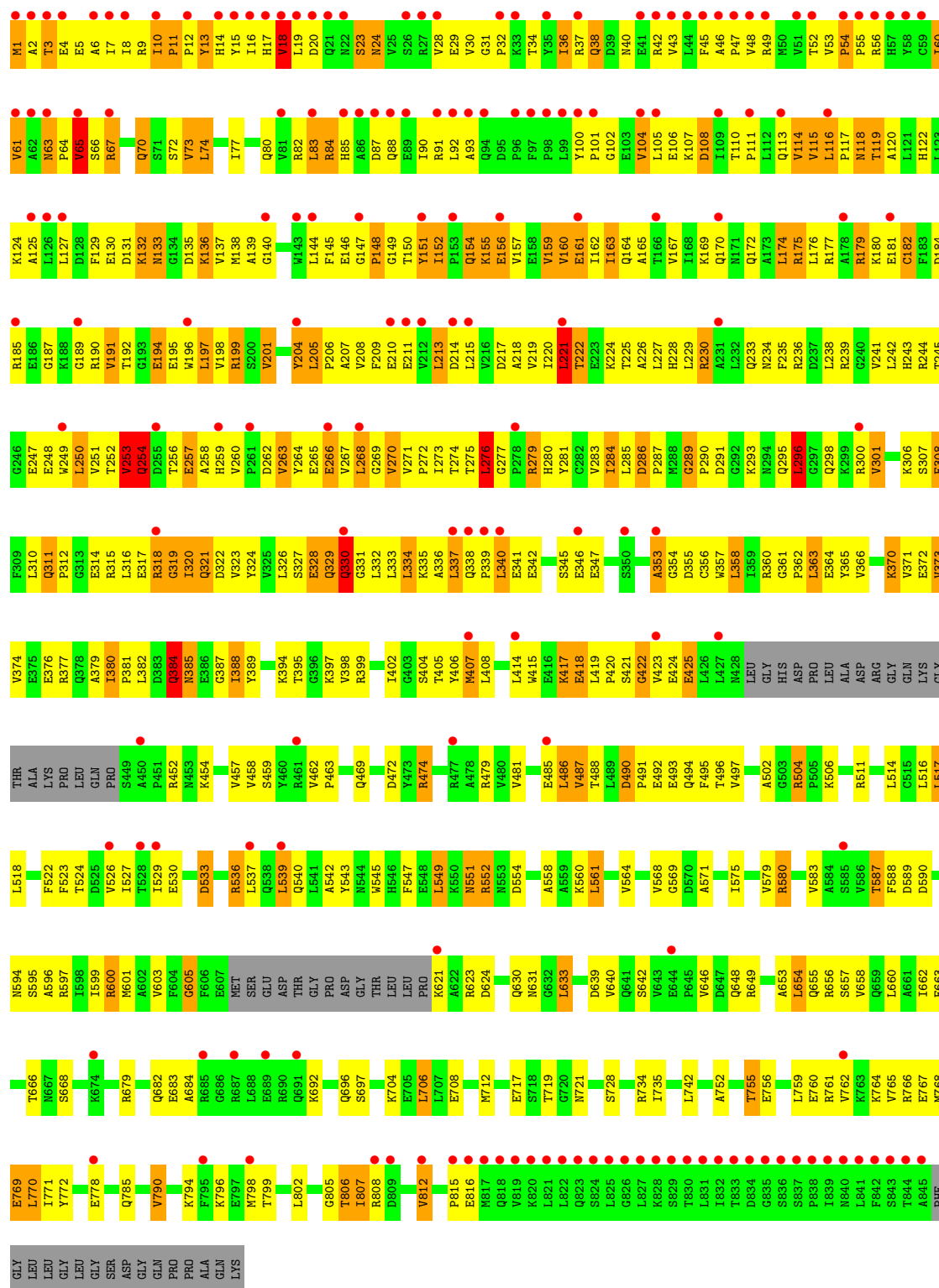


• Molecule 1: Major vault protein



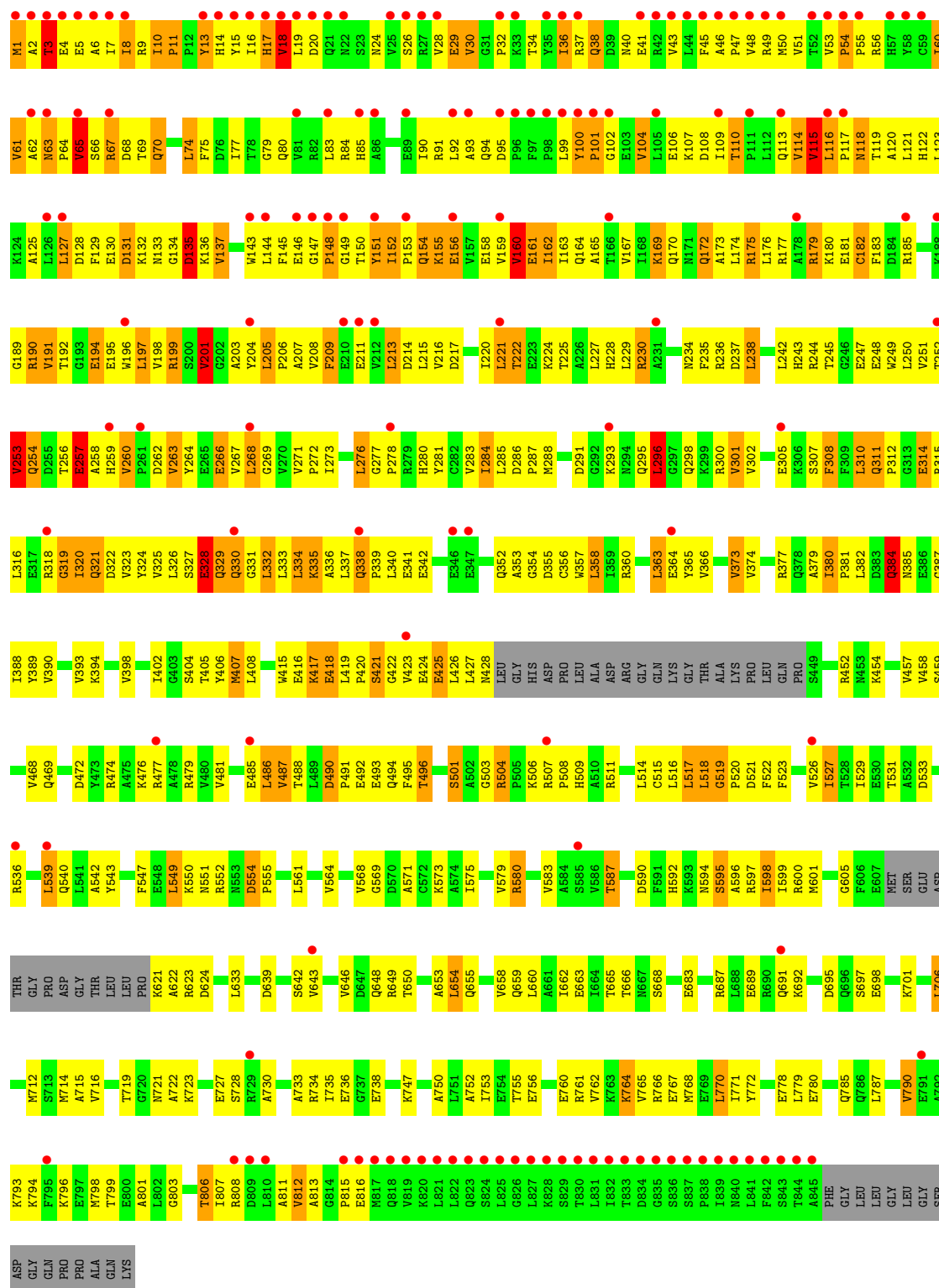
• Molecule 1: Major vault protein





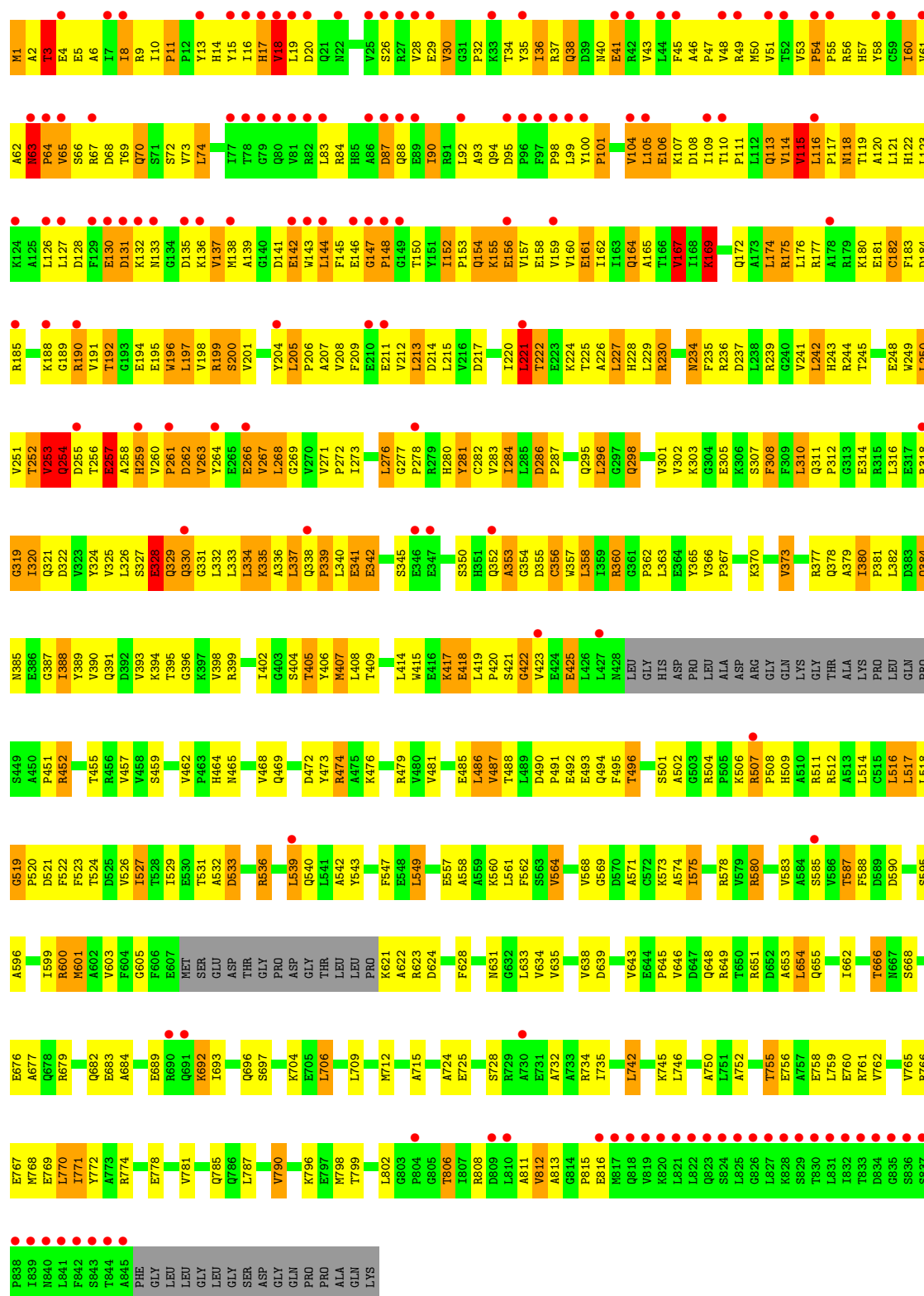
• Molecule 1: Major vault protein

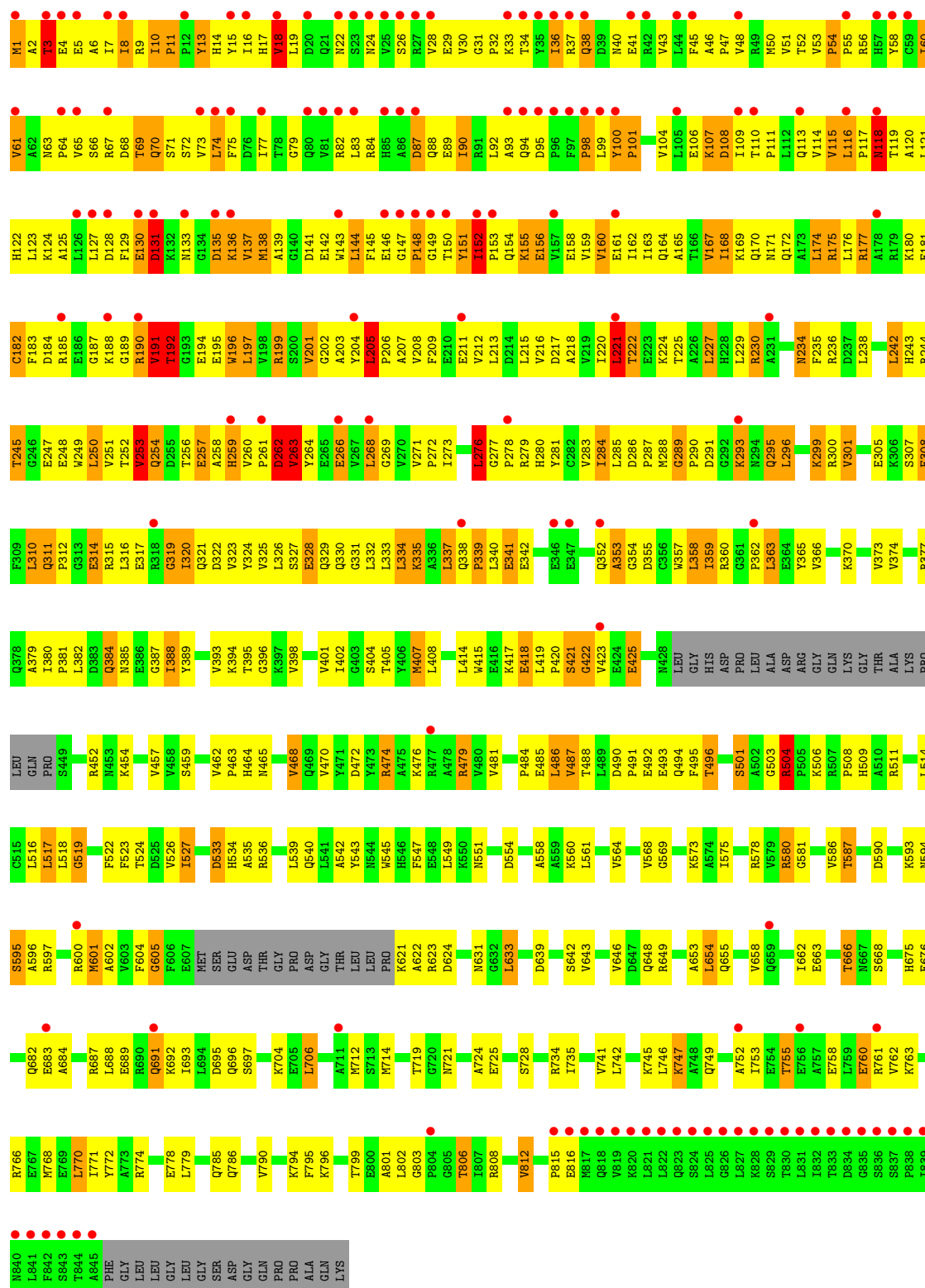
Chain O: 18% 39% 41% 12% 6%

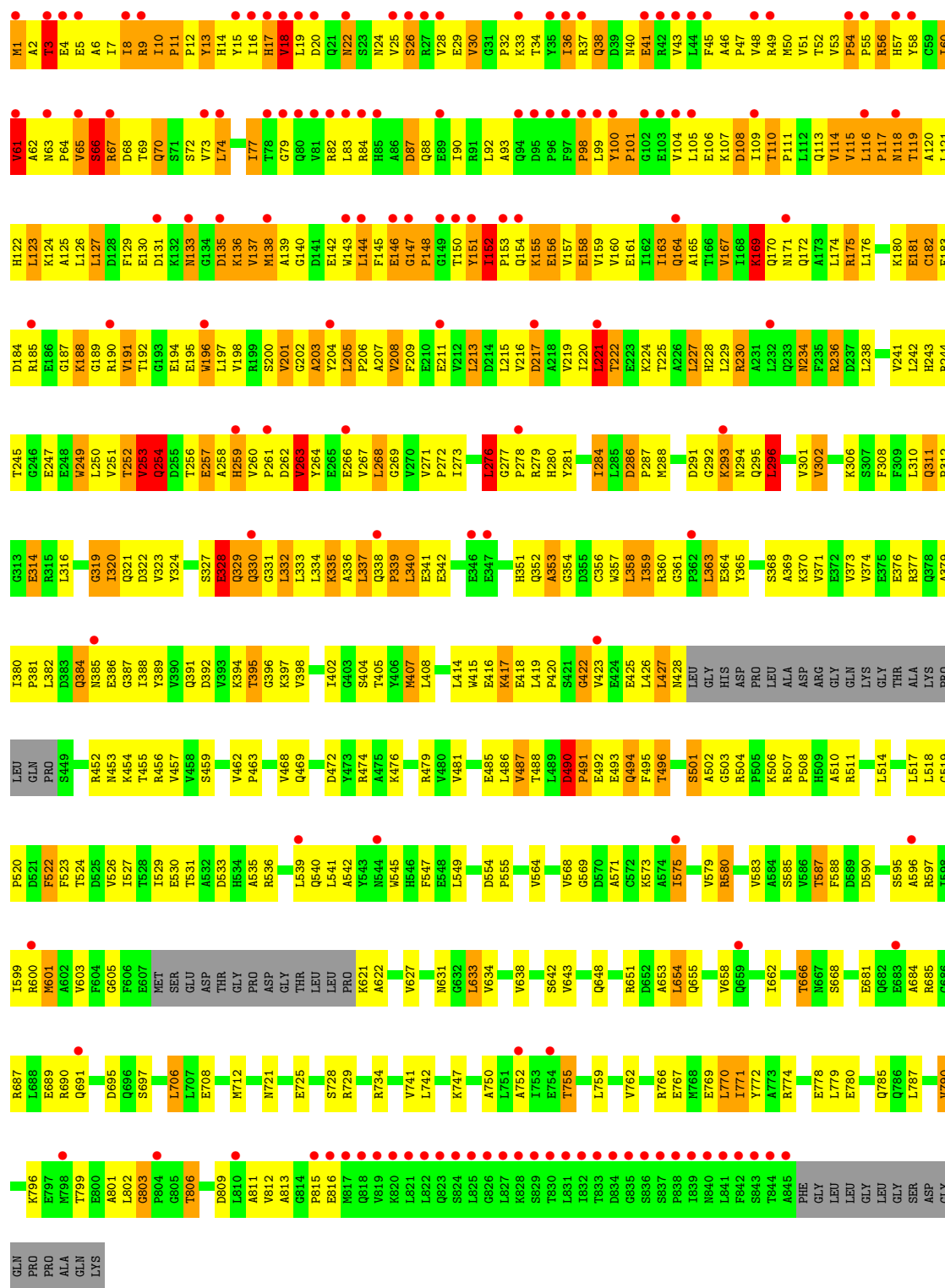


• Molecule 1: Major vault protein

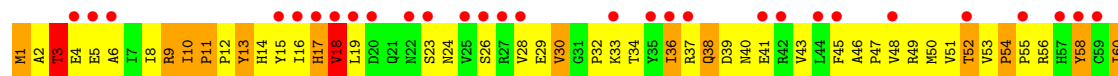


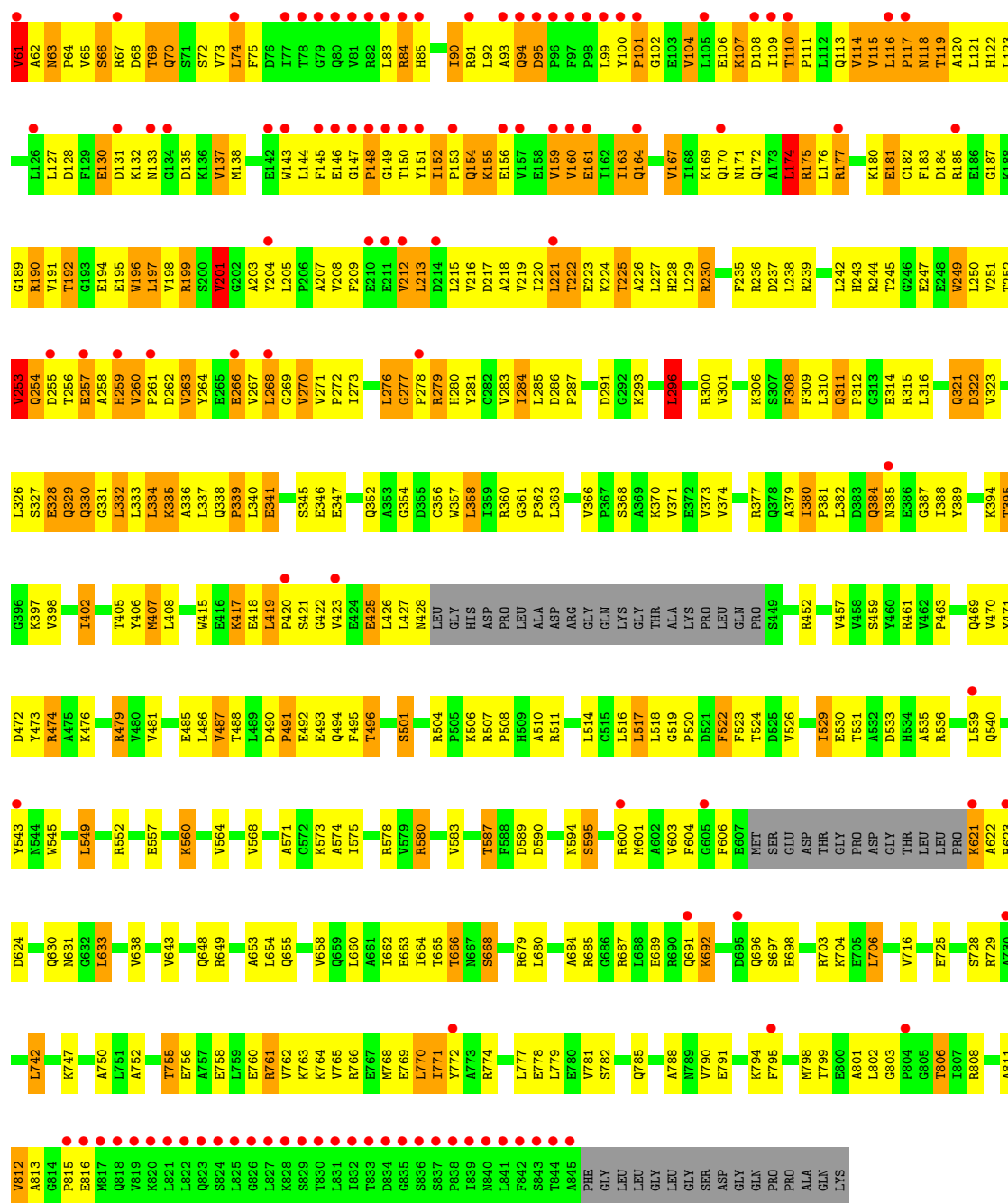




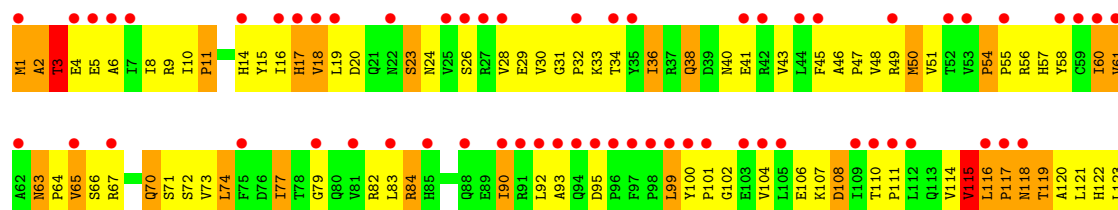


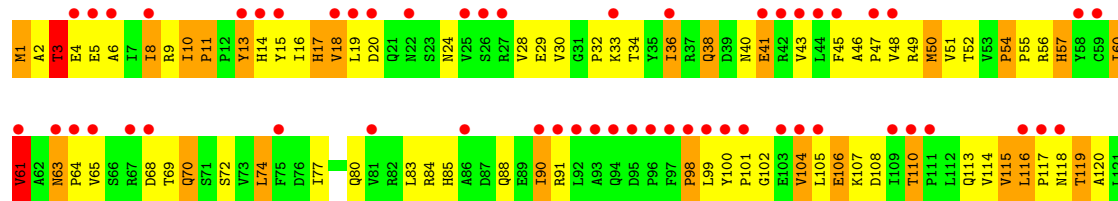
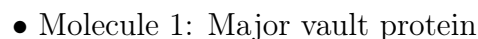
• Molecule 1: Major vault protein

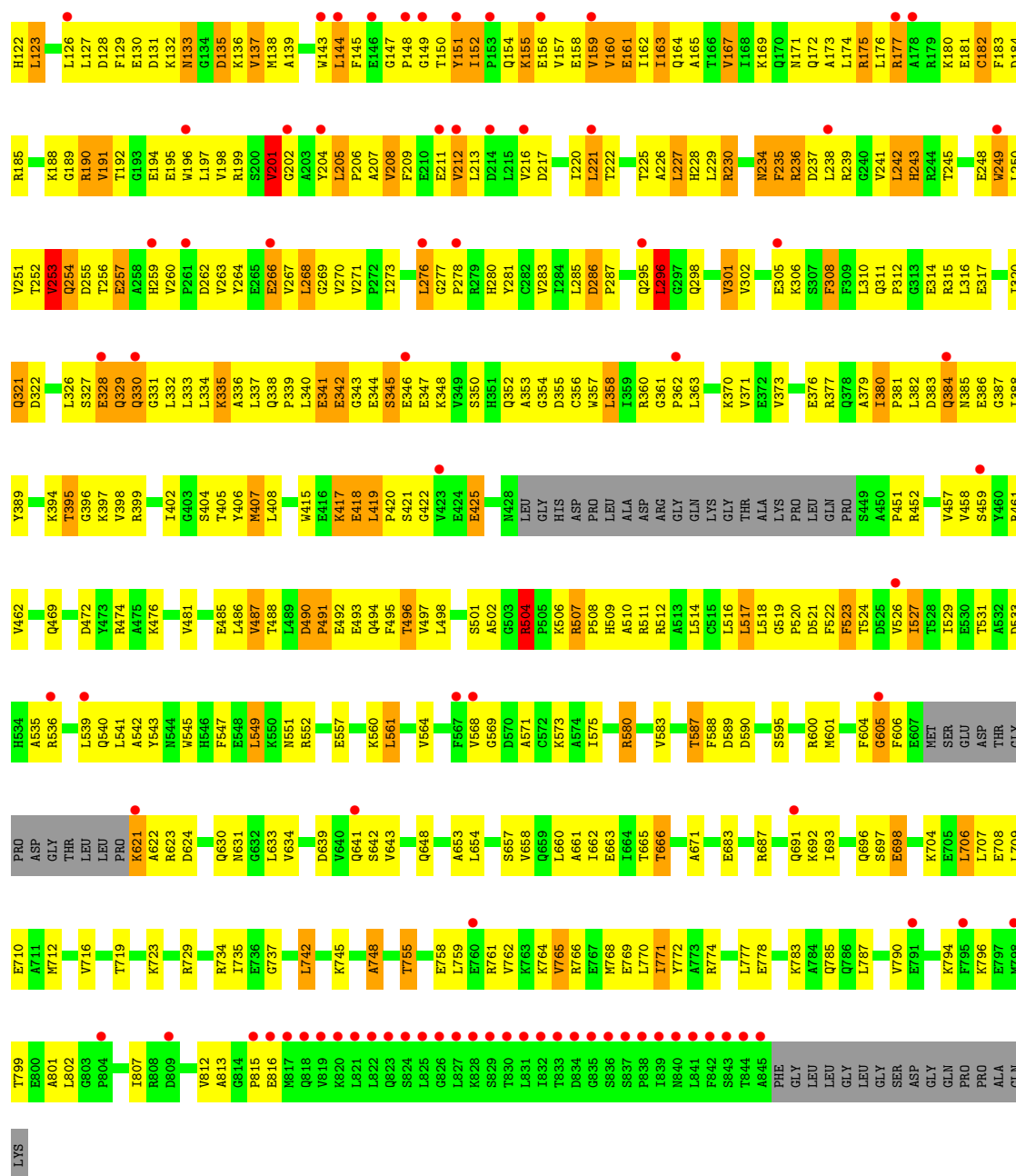




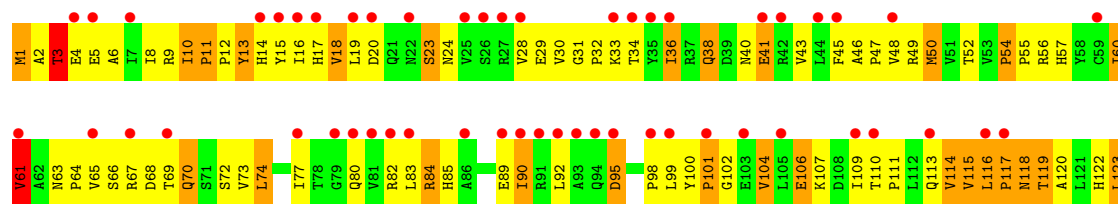
• Molecule 1: Major vault protein

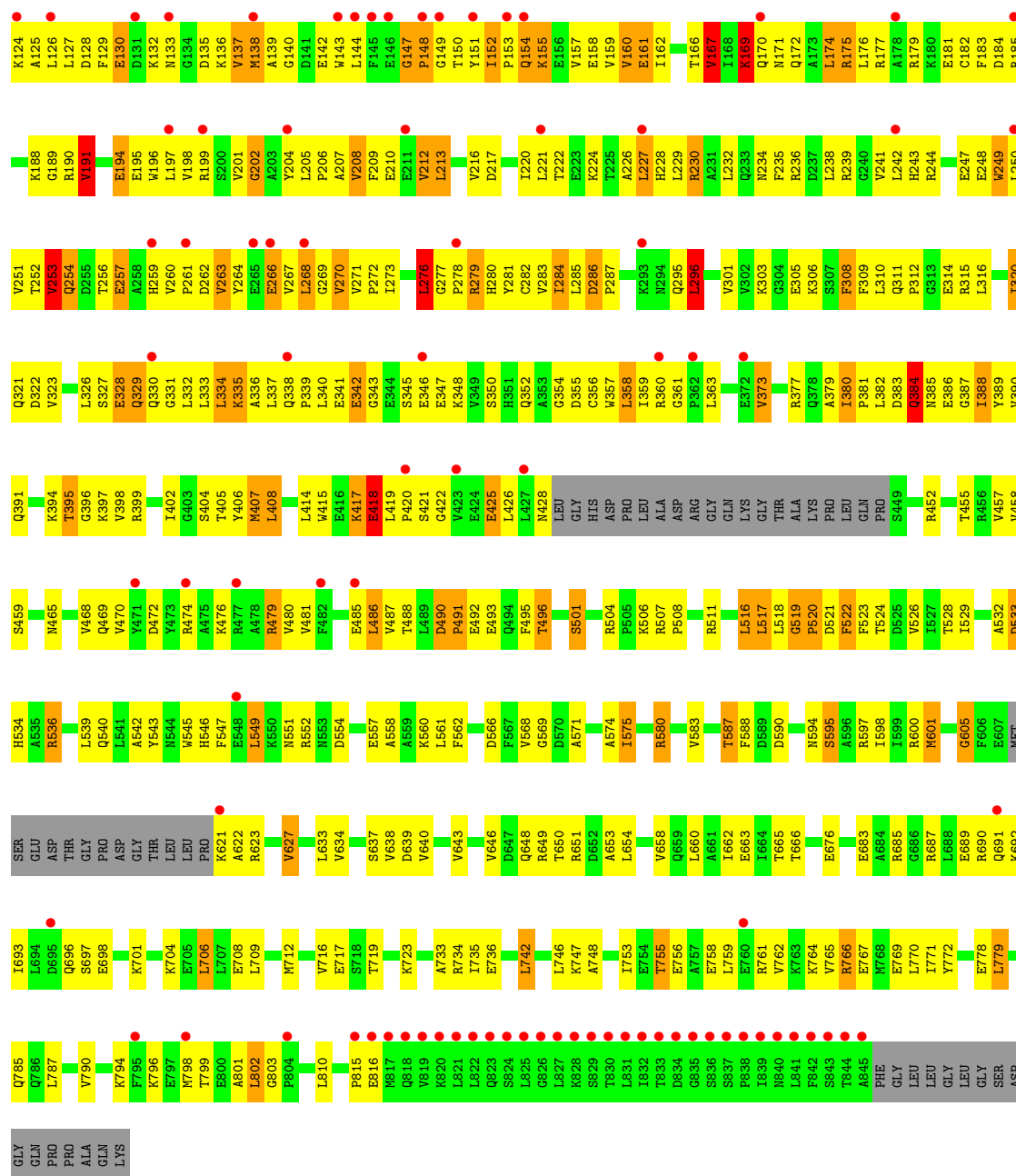




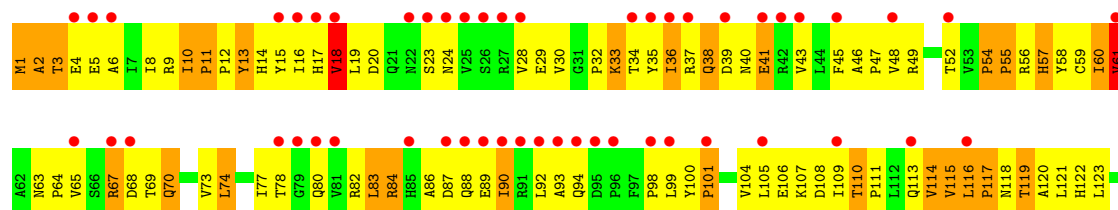


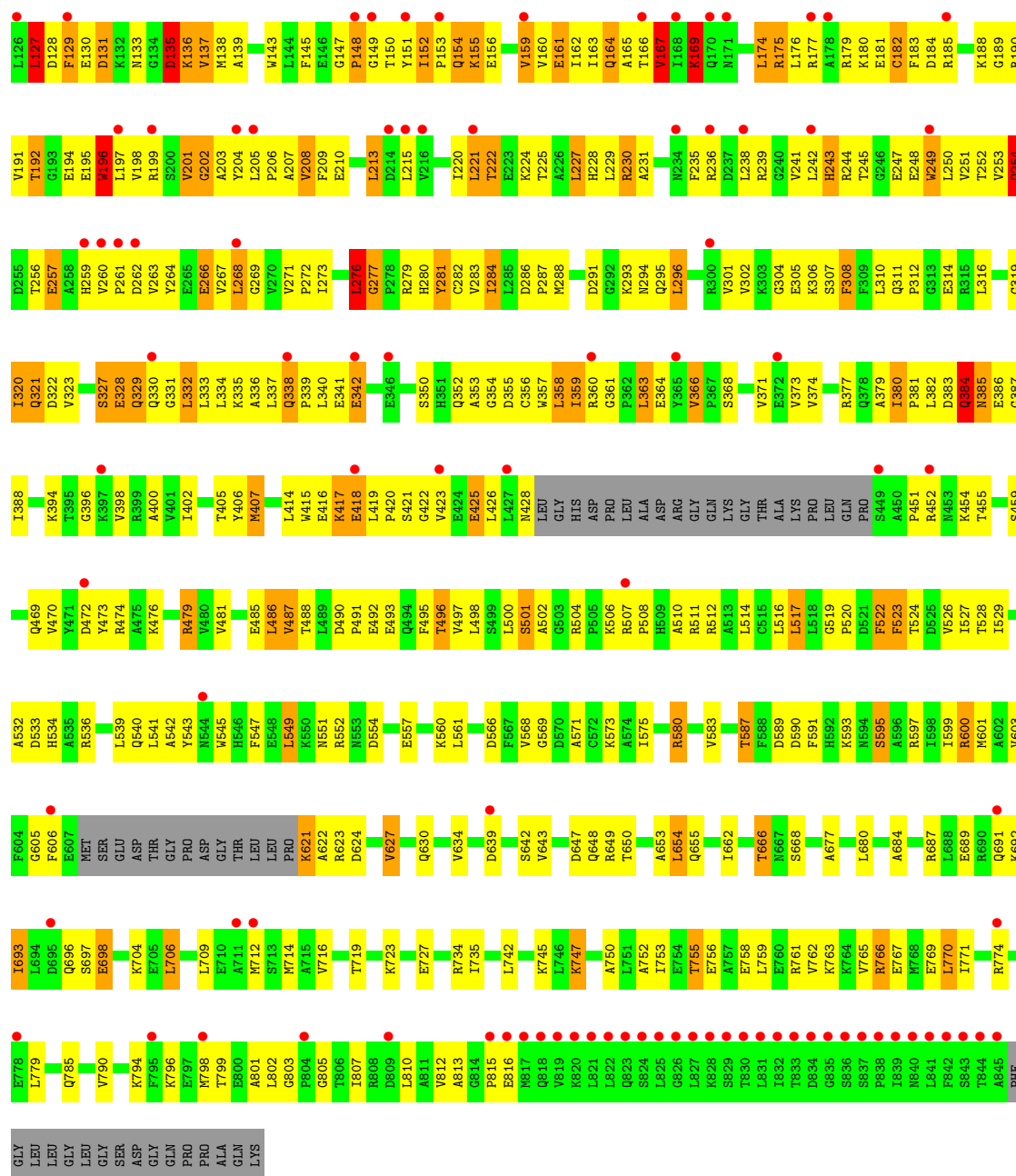
• Molecule 1: Major vault protein





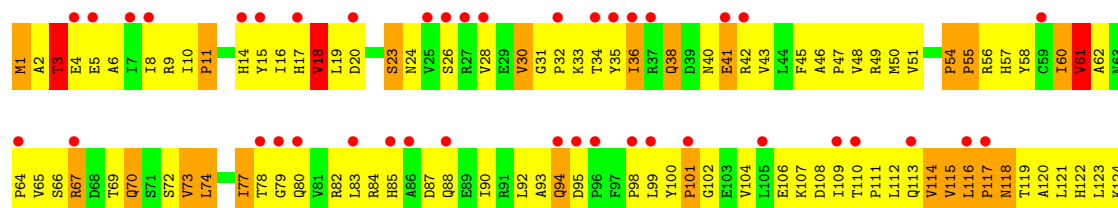
• Molecule 1: Major vault protein

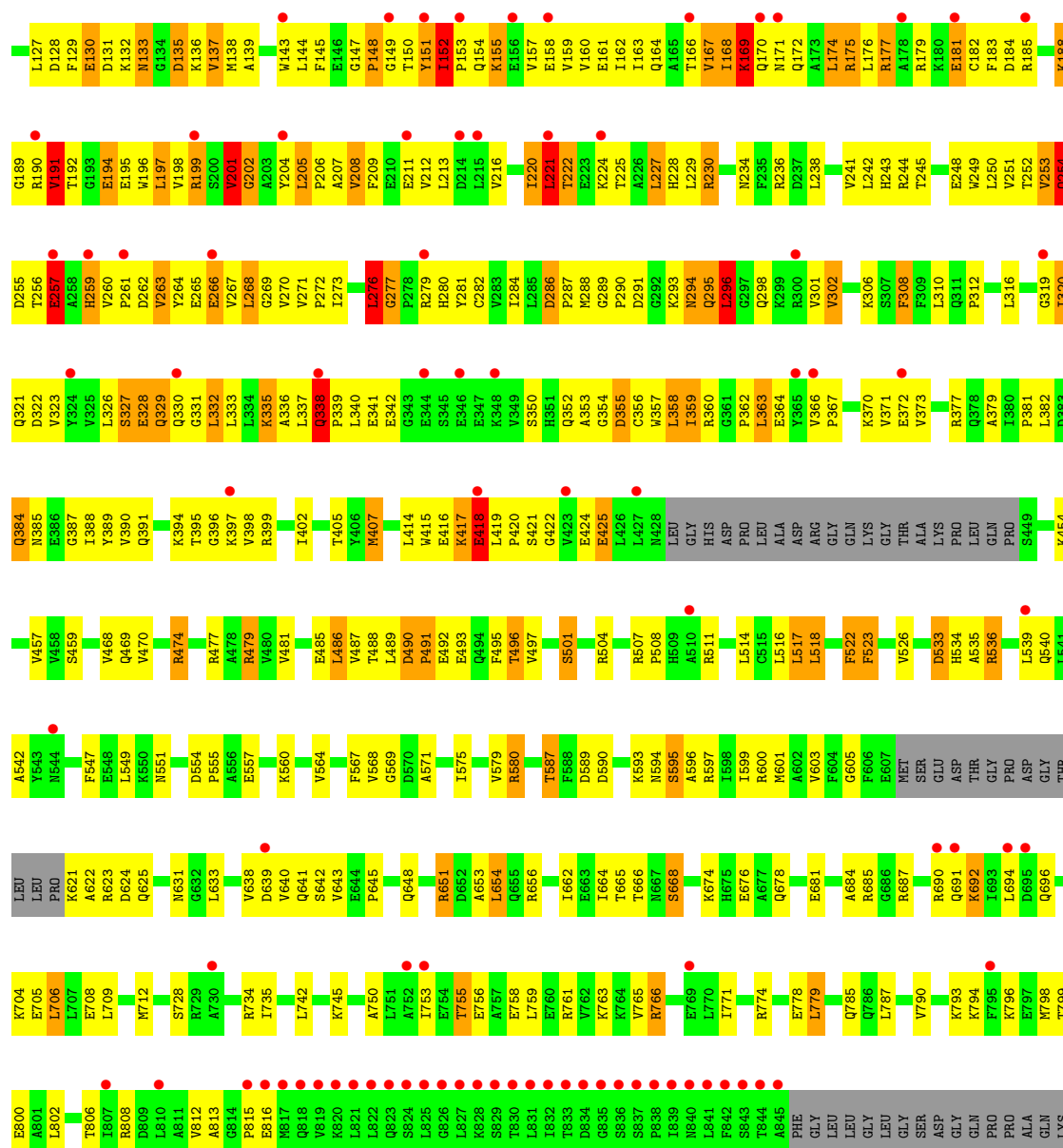




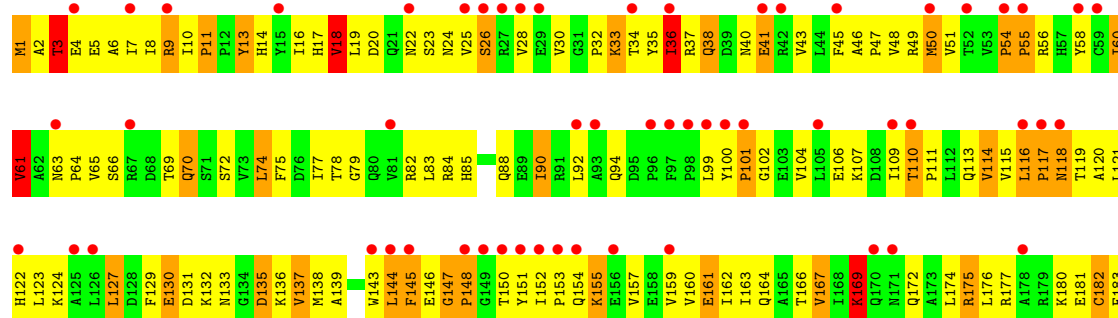
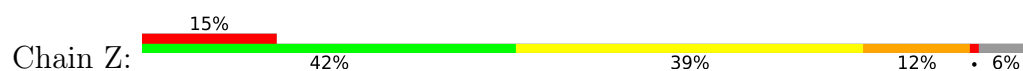
• Molecule 1: Major vault protein

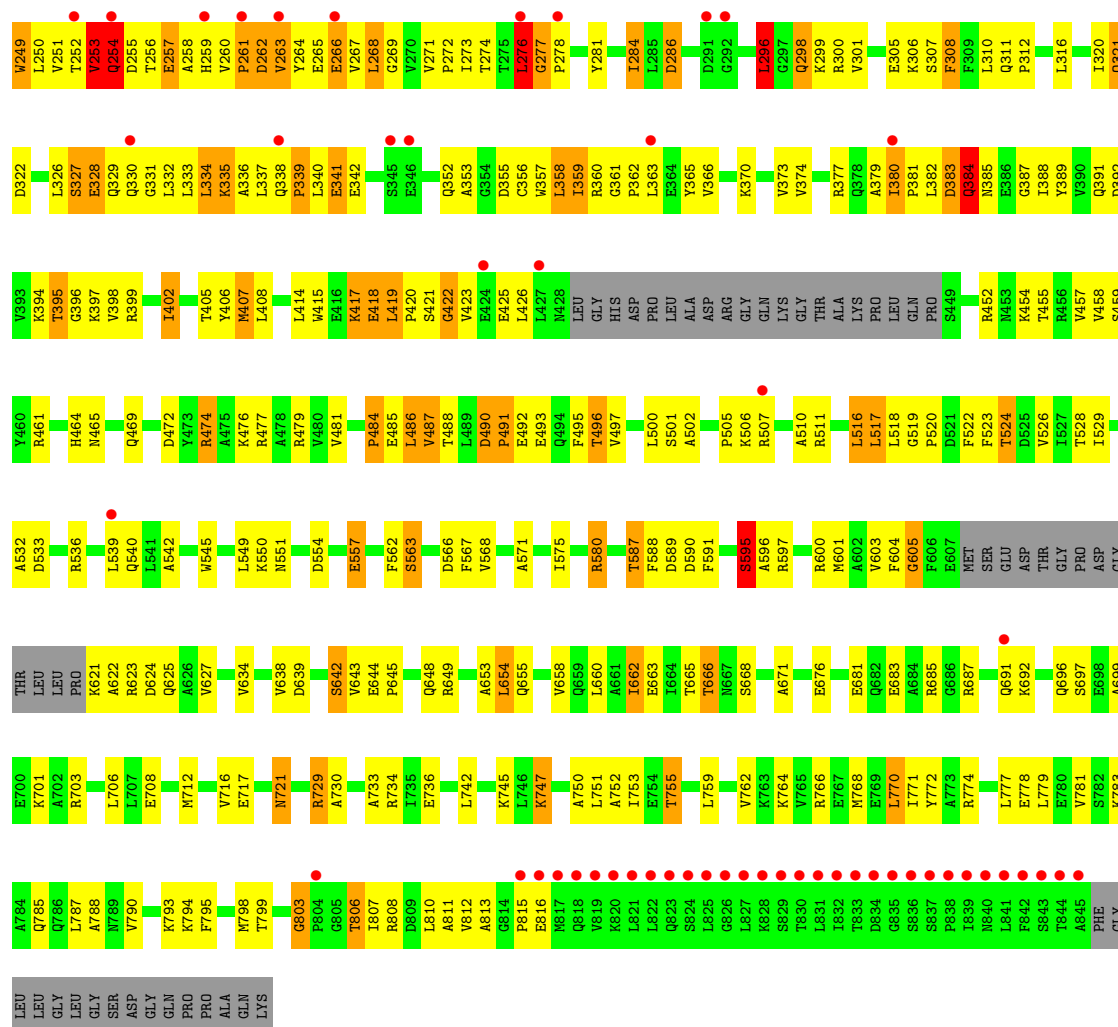
Chain Y: 15% 42% 40% 11% 6%



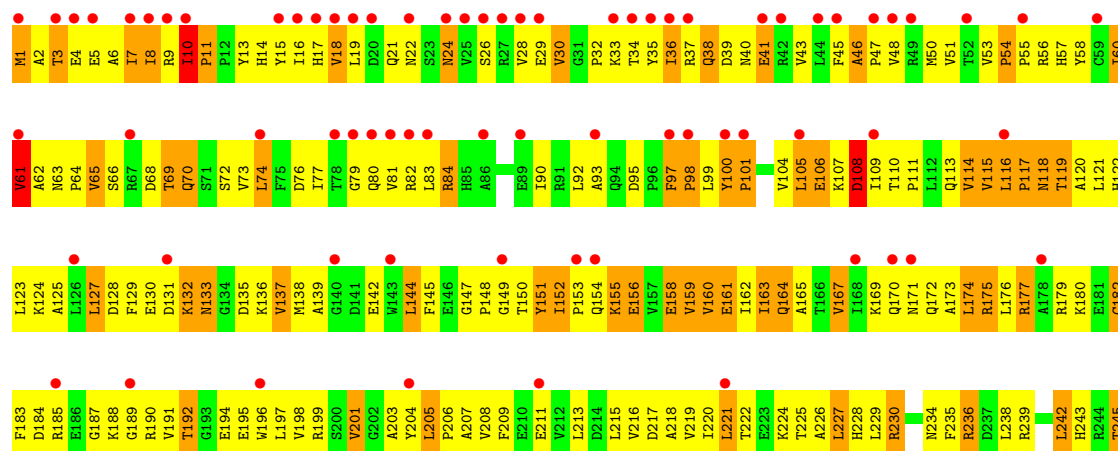
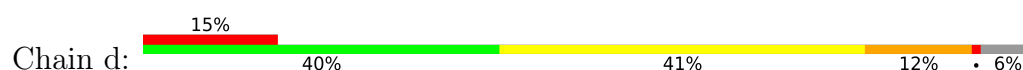


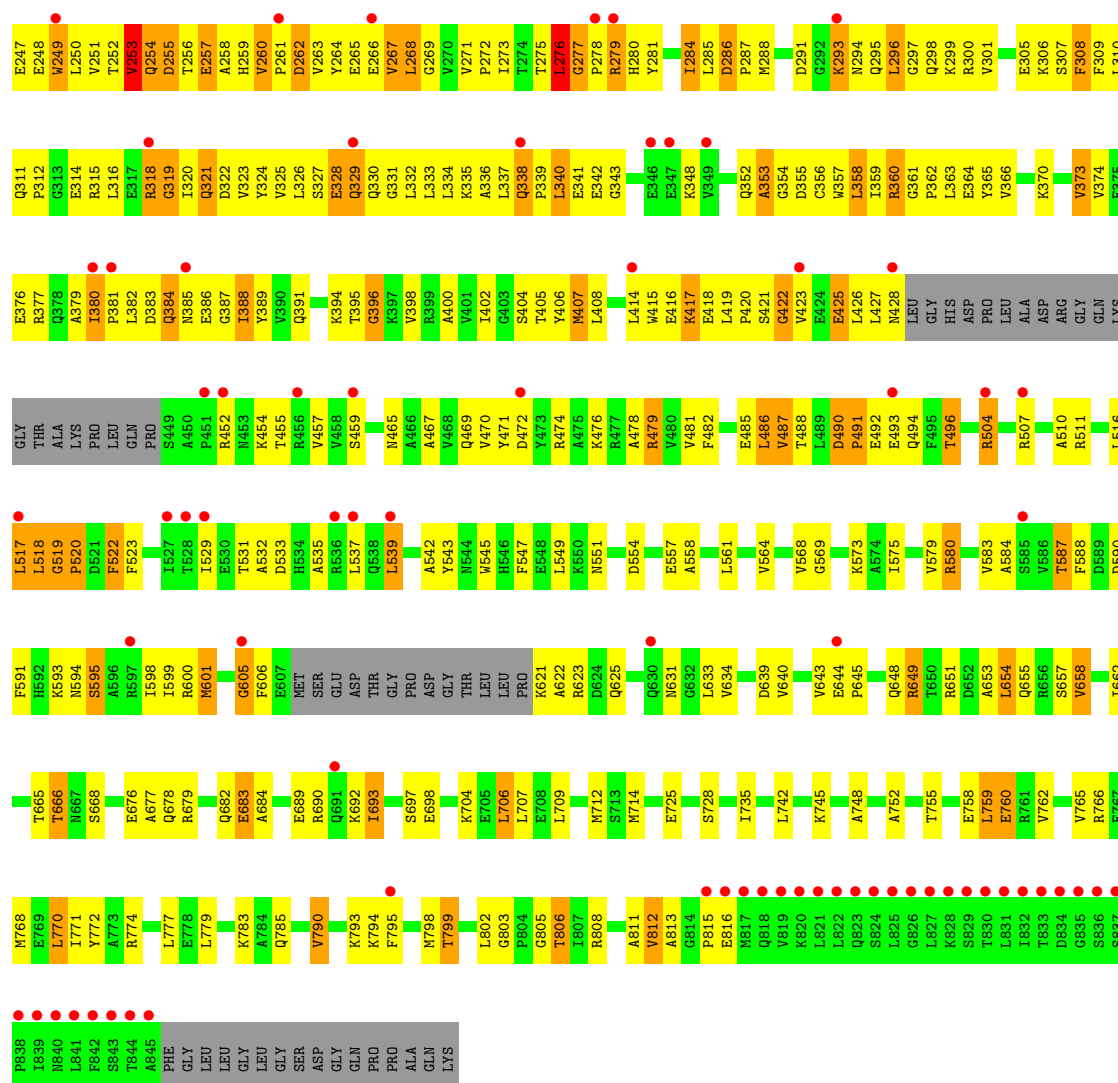
• Molecule 1: Major vault protein



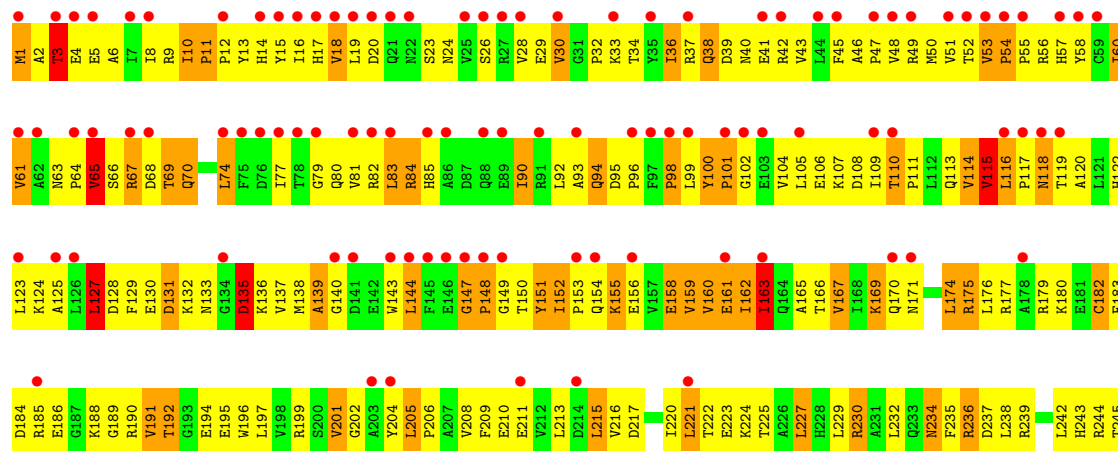


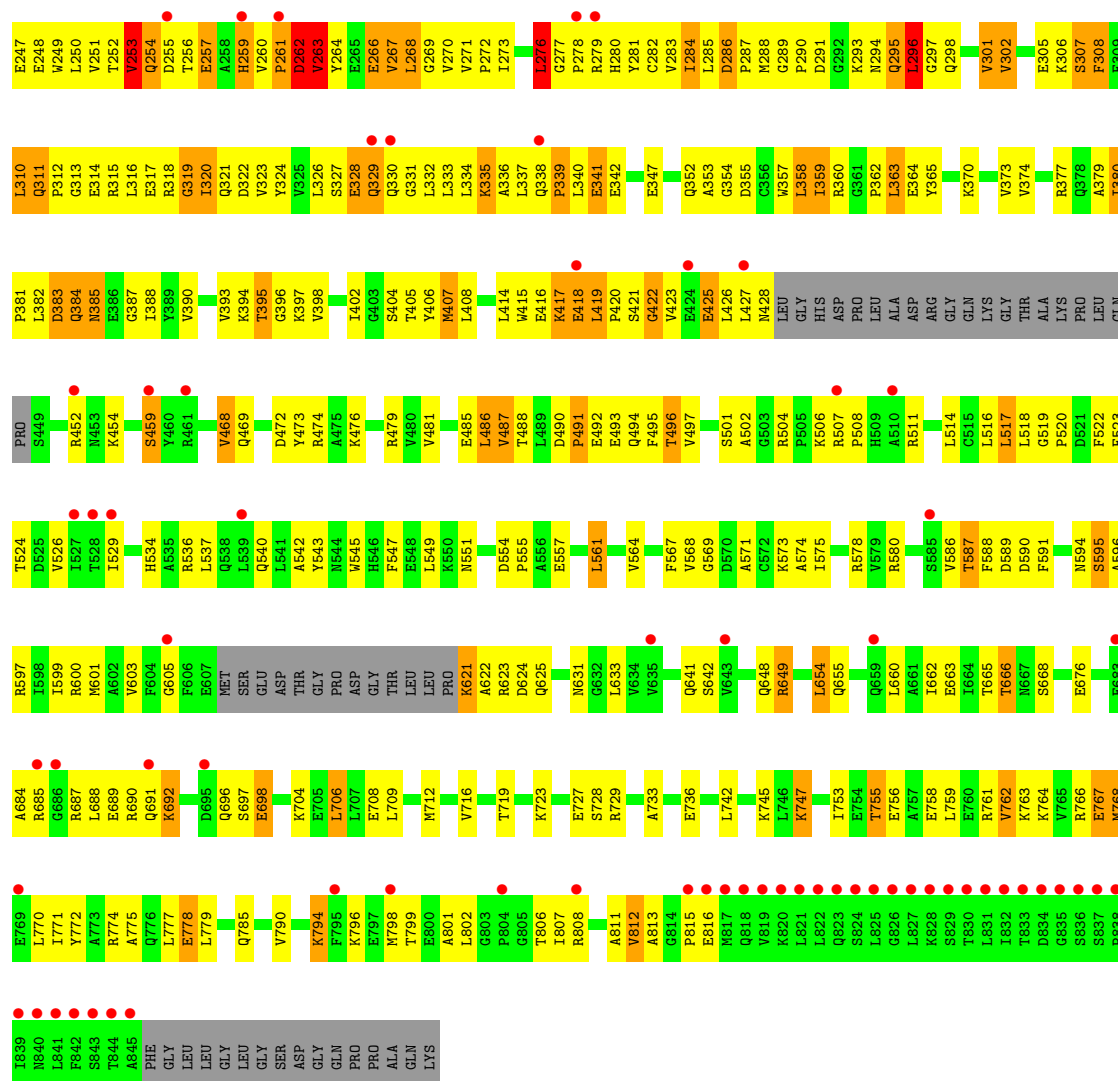
• Molecule 1: Major vault protein



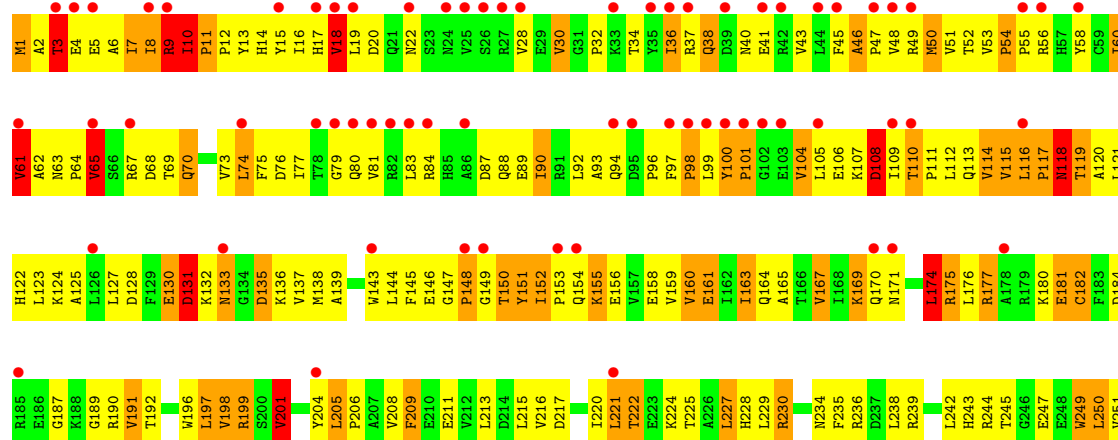


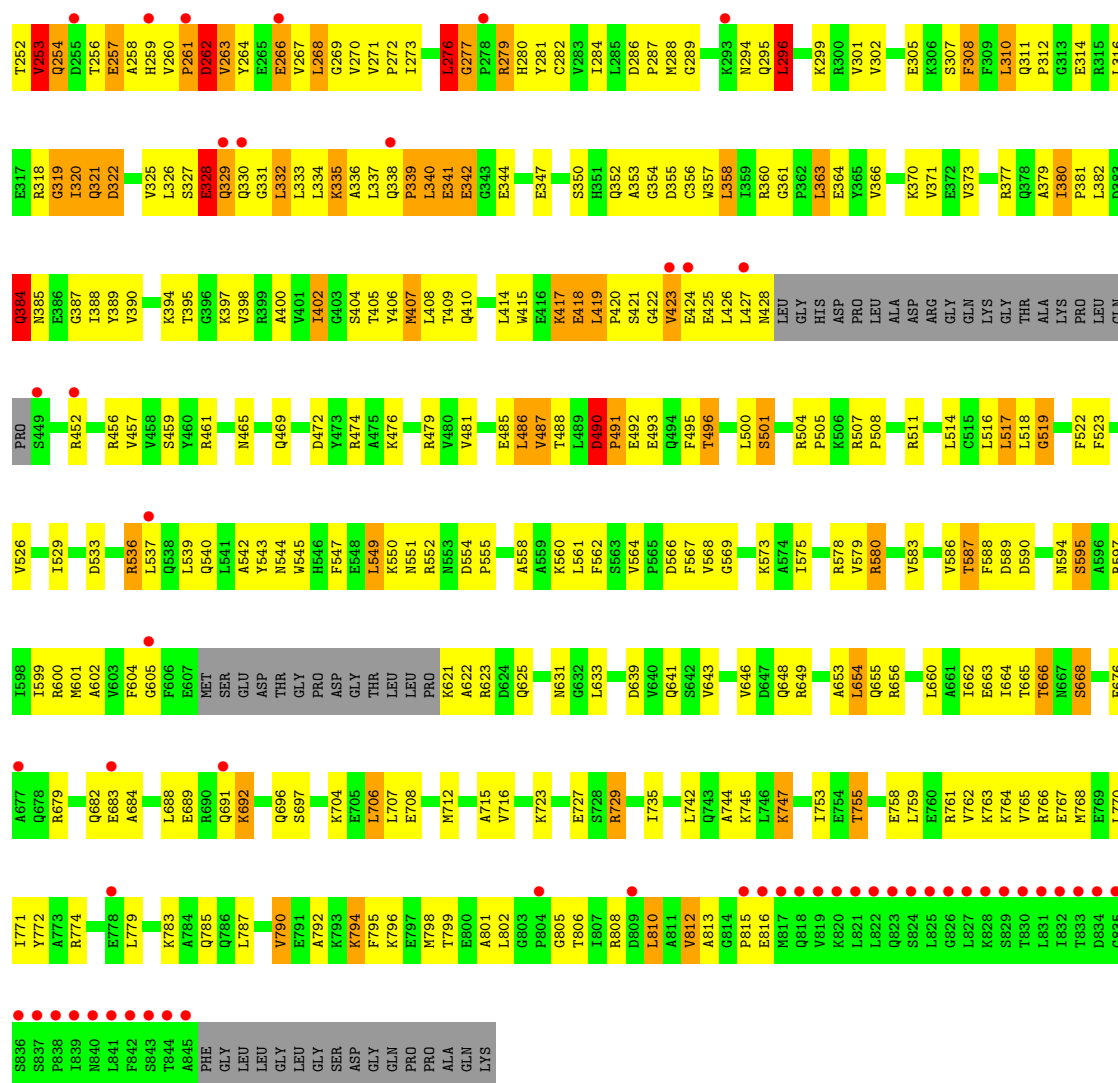
• Molecule 1: Major vault protein



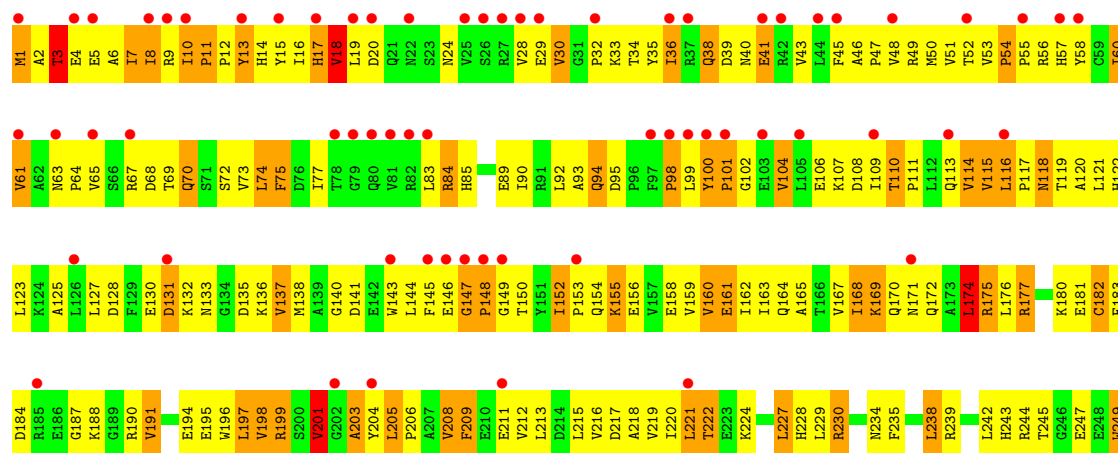
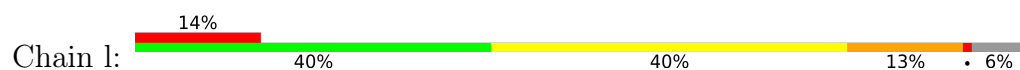


• Molecule 1: Major vault protein





• Molecule 1: Major vault protein





4 Data and refinement statistics

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 – 3.50 204.00 – 3.50	Depositor EDS
% Data completeness (in resolution range)	92.7 (204.00-3.50) 92.7 (204.00-3.50)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	0.21	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.51 (at 3.49Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.311 , 0.330 0.286 , 0.286	Depositor DCC
R_{free} test set	76647 reflections (4.58%)	wwPDB-VP
Wilson B-factor (Å ²)	104.6	Xtriage
Anisotropy	0.212	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 162.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	0.099 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	241956	wwPDB-VP
Average B, all atoms (Å ²)	121.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.91% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	0.68	1/6279 (0.0%)	1.02	26/8506 (0.3%)
1	B	0.68	3/6279 (0.0%)	1.01	26/8506 (0.3%)
1	C	0.68	3/6279 (0.0%)	1.02	22/8506 (0.3%)
1	D	0.68	3/6279 (0.0%)	1.02	22/8506 (0.3%)
1	E	0.69	4/6279 (0.1%)	1.03	30/8506 (0.4%)
1	F	0.68	2/6279 (0.0%)	1.01	25/8506 (0.3%)
1	G	0.68	2/6279 (0.0%)	0.99	19/8506 (0.2%)
1	H	0.68	3/6279 (0.0%)	1.01	24/8506 (0.3%)
1	I	0.69	2/6279 (0.0%)	1.00	19/8506 (0.2%)
1	J	0.70	2/6279 (0.0%)	1.03	21/8506 (0.2%)
1	K	0.70	2/6279 (0.0%)	1.05	31/8506 (0.4%)
1	L	0.71	2/6279 (0.0%)	1.04	30/8506 (0.4%)
1	M	0.71	3/6279 (0.0%)	1.03	26/8506 (0.3%)
1	N	0.69	2/6279 (0.0%)	1.02	25/8506 (0.3%)
1	O	0.71	3/6279 (0.0%)	1.03	23/8506 (0.3%)
1	P	0.71	2/6279 (0.0%)	1.06	34/8506 (0.4%)
1	Q	0.71	3/6279 (0.0%)	1.04	29/8506 (0.3%)
1	R	0.72	4/6279 (0.1%)	1.07	32/8506 (0.4%)
1	S	0.68	2/6279 (0.0%)	1.02	22/8506 (0.3%)
1	T	0.68	1/6279 (0.0%)	1.02	29/8506 (0.3%)
1	U	0.66	0/6279	1.00	14/8506 (0.2%)
1	V	0.67	0/6279	0.98	15/8506 (0.2%)
1	W	0.68	2/6279 (0.0%)	1.00	22/8506 (0.3%)
1	X	0.68	1/6279 (0.0%)	1.02	27/8506 (0.3%)
1	Y	0.68	1/6279 (0.0%)	1.02	25/8506 (0.3%)
1	Z	0.67	3/6279 (0.0%)	1.01	18/8506 (0.2%)
1	a	0.67	2/6279 (0.0%)	1.01	29/8506 (0.3%)
1	b	0.69	1/6279 (0.0%)	1.03	21/8506 (0.2%)
1	c	0.69	3/6279 (0.0%)	1.03	24/8506 (0.3%)
1	d	0.68	2/6279 (0.0%)	1.04	24/8506 (0.3%)
1	e	0.69	2/6279 (0.0%)	1.05	30/8506 (0.4%)
1	f	0.69	1/6279 (0.0%)	1.03	31/8506 (0.4%)
1	g	0.68	3/6279 (0.0%)	1.03	21/8506 (0.2%)
1	h	0.67	0/6279	1.02	20/8506 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.69	1/6279 (0.0%)	1.03	27/8506 (0.3%)
1	j	0.68	1/6279 (0.0%)	1.03	28/8506 (0.3%)
1	k	0.68	0/6279	1.03	33/8506 (0.4%)
1	l	0.67	0/6279	1.00	19/8506 (0.2%)
1	m	0.69	4/6279 (0.1%)	1.02	21/8506 (0.2%)
All	All	0.69	76/244881 (0.0%)	1.02	964/331734 (0.3%)

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

All (76) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	154	GLN	CA-C	7.93	1.56	1.52
1	e	154	GLN	CA-C	7.25	1.56	1.52
1	O	154	GLN	CA-C	7.21	1.56	1.52
1	E	154	GLN	CA-C	7.09	1.55	1.52
1	W	154	GLN	CA-C	6.97	1.55	1.52
1	H	137	VAL	CA-CB	6.72	1.60	1.54
1	c	154	GLN	CA-C	6.44	1.55	1.52
1	D	11	PRO	CA-C	6.25	1.57	1.52
1	R	77	ILE	C-O	6.11	1.31	1.24
1	E	8	ILE	CA-CB	5.97	1.60	1.54
1	F	11	PRO	CA-C	5.91	1.57	1.52
1	B	484	PRO	N-CA	-5.89	1.43	1.47
1	Q	11	PRO	CA-C	5.86	1.57	1.52
1	g	154	GLN	CA-C	5.83	1.55	1.52
1	P	8	ILE	CA-CB	5.73	1.60	1.54
1	T	11	PRO	CA-C	5.71	1.57	1.52
1	e	260	VAL	CA-CB	5.63	1.61	1.54
1	B	260	VAL	CA-CB	5.57	1.61	1.54
1	m	260	VAL	CA-CB	5.56	1.61	1.54
1	i	11	PRO	CA-C	5.54	1.57	1.52
1	K	11	PRO	CA-C	5.51	1.57	1.52
1	j	11	PRO	CA-C	5.51	1.57	1.52
1	G	11	PRO	CA-C	5.50	1.57	1.52
1	M	11	PRO	CA-C	5.49	1.57	1.52
1	A	11	PRO	CA-C	5.49	1.57	1.52
1	g	260	VAL	CA-CB	5.44	1.61	1.54
1	b	11	PRO	CA-C	5.41	1.57	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	260	VAL	CA-CB	5.39	1.61	1.54
1	d	8	ILE	CA-CB	5.39	1.59	1.54
1	J	168	ILE	CA-CB	5.35	1.59	1.53
1	Y	11	PRO	CA-C	5.34	1.57	1.52
1	g	11	PRO	CA-C	5.34	1.57	1.52
1	H	260	VAL	CA-CB	5.33	1.61	1.54
1	C	11	PRO	CA-C	5.33	1.57	1.52
1	N	154	GLN	CA-C	5.28	1.55	1.52
1	I	137	VAL	CA-CB	5.28	1.60	1.54
1	Z	36	ILE	CA-CB	5.27	1.60	1.54
1	W	11	PRO	CA-C	5.25	1.57	1.52
1	E	11	PRO	CA-C	5.25	1.57	1.52
1	Z	11	PRO	CA-C	5.25	1.57	1.52
1	a	11	PRO	CA-C	5.24	1.57	1.52
1	Q	152	ILE	CA-CB	5.23	1.60	1.54
1	m	11	PRO	CA-C	5.22	1.57	1.52
1	J	11	PRO	CA-C	5.22	1.57	1.52
1	D	54	PRO	CA-C	5.18	1.56	1.52
1	C	484	PRO	N-CA	-5.17	1.44	1.47
1	R	152	ILE	CA-CB	5.16	1.60	1.54
1	S	11	PRO	CA-C	5.16	1.56	1.52
1	P	154	GLN	CA-C	5.16	1.55	1.52
1	E	260	VAL	CA-CB	5.14	1.60	1.54
1	Z	260	VAL	CA-CB	5.14	1.60	1.54
1	c	484	PRO	N-CA	-5.13	1.43	1.47
1	D	260	VAL	CA-CB	5.12	1.60	1.54
1	Q	8	ILE	CA-CB	5.11	1.60	1.54
1	L	260	VAL	CA-CB	5.11	1.60	1.54
1	H	11	PRO	CA-C	5.10	1.56	1.52
1	N	11	PRO	CA-C	5.10	1.56	1.52
1	B	11	PRO	CA-C	5.08	1.56	1.52
1	O	260	VAL	CA-CB	5.08	1.60	1.54
1	c	7	ILE	CA-CB	5.08	1.61	1.54
1	I	260	VAL	CA-CB	5.07	1.60	1.54
1	K	54	PRO	CA-C	5.07	1.56	1.52
1	O	8	ILE	CA-CB	5.06	1.59	1.54
1	a	260	VAL	CA-CB	5.06	1.60	1.54
1	X	11	PRO	CA-C	5.06	1.56	1.52
1	C	260	VAL	CA-CB	5.05	1.60	1.54
1	R	8	ILE	CA-CB	5.05	1.59	1.54
1	m	2	ALA	CA-CB	5.05	1.60	1.53
1	d	7	ILE	CA-CB	5.05	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	379	ALA	CA-CB	-5.03	1.46	1.53
1	M	54	PRO	CA-C	5.02	1.56	1.52
1	R	77	ILE	C-N	-5.02	1.26	1.33
1	S	260	VAL	CA-CB	5.02	1.60	1.54
1	M	260	VAL	CA-CB	5.02	1.60	1.54
1	F	260	VAL	CA-CB	5.00	1.60	1.54
1	f	260	VAL	CA-CB	5.00	1.60	1.54

All (964) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	252	THR	CB-CA-C	-14.21	92.81	111.42
1	O	254	GLN	N-CA-C	-12.50	98.18	114.31
1	R	254	GLN	N-CA-C	-11.88	97.60	114.12
1	D	254	GLN	N-CA-C	-11.35	98.34	114.12
1	Q	254	GLN	N-CA-C	-11.17	98.20	114.39
1	E	254	GLN	N-CA-C	-10.92	98.55	114.39
1	S	254	GLN	N-CA-C	-10.91	99.54	113.72
1	h	504	ARG	CA-C-N	-10.82	108.94	119.76
1	h	504	ARG	C-N-CA	-10.82	108.94	119.76
1	b	254	GLN	N-CA-C	-10.53	100.03	113.72
1	M	254	GLN	N-CA-C	-10.30	97.61	113.89
1	d	11	PRO	N-CA-C	10.30	123.27	110.70
1	V	254	GLN	N-CA-C	-10.14	100.02	114.12
1	R	329	GLN	N-CA-C	-10.03	100.33	111.07
1	D	11	PRO	N-CA-C	10.01	122.91	110.70
1	E	504	ARG	CA-C-N	-9.93	109.47	119.90
1	E	504	ARG	C-N-CA	-9.93	109.47	119.90
1	Z	254	GLN	N-CA-C	-9.86	98.82	113.61
1	R	135	ASP	N-CA-C	9.84	119.81	108.49
1	X	254	GLN	N-CA-C	-9.83	101.63	114.31
1	a	254	GLN	N-CA-C	-9.75	100.23	113.30
1	U	254	GLN	N-CA-C	-9.74	99.00	113.61
1	c	254	GLN	N-CA-C	-9.74	100.25	113.30
1	f	254	GLN	N-CA-C	-9.70	99.27	112.94
1	F	11	PRO	N-CA-C	9.67	122.50	110.70
1	T	254	GLN	N-CA-C	-9.65	100.37	113.30
1	T	11	PRO	N-CA-C	9.64	122.46	110.70
1	Y	254	GLN	N-CA-C	-9.60	101.24	113.72
1	b	11	PRO	N-CA-C	9.56	122.36	110.70
1	K	254	GLN	N-CA-C	-9.55	99.29	114.09
1	i	11	PRO	N-CA-C	9.50	122.29	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	164	GLN	CA-C-N	-9.45	107.88	122.62
1	P	164	GLN	C-N-CA	-9.45	107.88	122.62
1	P	254	GLN	N-CA-C	-9.45	101.27	113.17
1	Y	11	PRO	N-CA-C	9.43	122.21	110.70
1	A	254	GLN	N-CA-C	-9.36	99.10	113.89
1	L	254	GLN	N-CA-C	-9.35	99.11	113.89
1	g	11	PRO	N-CA-C	9.34	122.09	110.70
1	K	11	PRO	N-CA-C	9.31	122.06	110.70
1	c	11	PRO	N-CA-C	9.31	122.06	110.70
1	j	254	GLN	N-CA-C	-9.30	99.66	113.61
1	C	254	GLN	N-CA-C	-9.24	99.75	113.61
1	P	252	THR	N-CA-C	9.23	122.65	107.23
1	d	10	ILE	CA-C-N	9.21	129.86	120.38
1	d	10	ILE	C-N-CA	9.21	129.86	120.38
1	a	11	PRO	N-CA-C	9.21	121.93	110.70
1	m	254	GLN	N-CA-C	-9.19	100.98	113.30
1	A	504	ARG	CA-C-N	-9.16	110.09	119.99
1	A	504	ARG	C-N-CA	-9.16	110.09	119.99
1	j	11	PRO	N-CA-C	9.03	121.72	110.70
1	M	11	PRO	N-CA-C	9.02	121.70	110.70
1	W	254	GLN	N-CA-C	-8.99	100.12	113.61
1	l	254	GLN	N-CA-C	-8.99	100.13	113.61
1	G	11	PRO	N-CA-C	8.98	121.65	110.70
1	e	11	PRO	N-CA-C	8.98	121.65	110.70
1	Z	11	PRO	N-CA-C	8.97	121.64	110.70
1	J	11	PRO	N-CA-C	8.95	121.62	110.70
1	e	254	GLN	N-CA-C	-8.94	99.77	113.89
1	H	254	GLN	N-CA-C	-8.86	100.45	112.94
1	l	11	PRO	N-CA-C	8.85	121.50	110.70
1	B	10	ILE	CA-C-N	8.85	129.49	120.38
1	B	10	ILE	C-N-CA	8.85	129.49	120.38
1	T	504	ARG	CA-C-N	-8.77	110.22	120.13
1	T	504	ARG	C-N-CA	-8.77	110.22	120.13
1	B	11	PRO	N-CA-C	8.76	121.39	110.70
1	F	504	ARG	CA-C-N	-8.76	110.70	119.90
1	F	504	ARG	C-N-CA	-8.76	110.70	119.90
1	W	11	PRO	N-CA-C	8.75	121.37	110.70
1	H	519	GLY	CA-C-N	8.73	130.76	119.84
1	H	519	GLY	C-N-CA	8.73	130.76	119.84
1	B	254	GLN	N-CA-C	-8.72	100.53	113.61
1	k	135	ASP	N-CA-C	8.71	120.25	108.23
1	B	504	ARG	CA-C-N	-8.69	110.31	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	504	ARG	C-N-CA	-8.69	110.31	120.13
1	N	504	ARG	CA-C-N	-8.69	109.90	119.98
1	N	504	ARG	C-N-CA	-8.69	109.90	119.98
1	T	329	GLN	N-CA-C	-8.68	101.52	110.97
1	I	254	GLN	N-CA-C	-8.66	100.61	113.61
1	N	254	GLN	N-CA-C	-8.66	100.21	113.89
1	Y	135	ASP	N-CA-C	8.66	118.45	108.49
1	d	254	GLN	N-CA-C	-8.65	100.74	112.94
1	l	329	GLN	N-CA-C	-8.64	100.47	111.02
1	V	135	ASP	N-CA-C	8.63	118.42	108.49
1	i	254	GLN	N-CA-C	-8.61	101.76	113.30
1	X	11	PRO	N-CA-C	8.61	121.20	110.70
1	D	329	GLN	N-CA-C	-8.60	101.87	111.07
1	b	329	GLN	N-CA-C	-8.59	101.61	110.97
1	f	330	GLN	N-CA-C	8.53	120.67	110.44
1	Q	504	ARG	CA-C-N	-8.50	110.97	119.90
1	Q	504	ARG	C-N-CA	-8.50	110.97	119.90
1	X	147	GLY	CA-C-N	8.46	130.41	119.84
1	X	147	GLY	C-N-CA	8.46	130.41	119.84
1	h	11	PRO	N-CA-C	8.45	121.00	110.70
1	S	11	PRO	N-CA-C	8.45	121.00	110.70
1	f	11	PRO	N-CA-C	8.43	120.98	110.70
1	h	10	ILE	CA-C-N	8.42	129.06	120.38
1	h	10	ILE	C-N-CA	8.42	129.06	120.38
1	A	11	PRO	N-CA-C	8.40	120.95	110.70
1	J	254	GLN	N-CA-C	-8.39	100.63	113.89
1	C	10	ILE	CA-C-N	8.38	129.01	120.38
1	C	10	ILE	C-N-CA	8.38	129.01	120.38
1	k	504	ARG	CA-C-N	-8.35	111.13	119.90
1	k	504	ARG	C-N-CA	-8.35	111.13	119.90
1	V	11	PRO	N-CA-C	8.34	120.87	110.70
1	m	147	GLY	CA-C-N	8.31	130.23	119.84
1	m	147	GLY	C-N-CA	8.31	130.23	119.84
1	C	11	PRO	N-CA-C	8.29	120.82	110.70
1	d	147	GLY	CA-C-N	8.29	130.20	119.84
1	d	147	GLY	C-N-CA	8.29	130.20	119.84
1	Q	11	PRO	N-CA-C	8.27	120.79	110.70
1	G	254	GLN	N-CA-C	-8.25	101.23	113.61
1	D	10	ILE	CA-C-N	8.25	128.87	120.38
1	D	10	ILE	C-N-CA	8.25	128.87	120.38
1	b	10	ILE	CA-C-N	8.24	128.86	120.38
1	b	10	ILE	C-N-CA	8.24	128.86	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	329	GLN	N-CA-C	-8.17	101.06	111.02
1	O	11	PRO	N-CA-C	8.16	120.66	110.70
1	F	10	ILE	CA-C-N	8.13	128.75	120.38
1	F	10	ILE	C-N-CA	8.13	128.75	120.38
1	h	254	GLN	N-CA-C	-8.13	100.91	113.02
1	d	133	ASN	N-CA-C	8.10	119.74	111.07
1	W	329	GLN	N-CA-C	-8.10	102.41	111.07
1	h	135	ASP	N-CA-C	8.08	117.79	108.49
1	U	11	PRO	N-CA-C	8.08	120.55	110.70
1	S	10	ILE	CA-C-N	8.07	128.70	120.38
1	S	10	ILE	C-N-CA	8.07	128.70	120.38
1	H	11	PRO	N-CA-C	8.07	120.54	110.70
1	B	133	ASN	N-CA-C	8.06	119.75	110.97
1	e	154	GLN	N-CA-C	8.06	120.93	108.12
1	H	147	GLY	CA-C-N	8.05	129.90	119.84
1	H	147	GLY	C-N-CA	8.05	129.90	119.84
1	P	11	PRO	N-CA-C	8.05	120.52	110.70
1	g	147	GLY	CA-C-N	8.04	129.89	119.84
1	g	147	GLY	C-N-CA	8.04	129.89	119.84
1	E	133	ASN	N-CA-C	8.03	120.75	111.11
1	E	329	GLN	N-CA-C	-8.02	99.38	111.34
1	k	11	PRO	N-CA-C	8.00	120.46	110.70
1	e	10	ILE	CA-C-N	8.00	128.62	120.38
1	e	10	ILE	C-N-CA	8.00	128.62	120.38
1	C	329	GLN	N-CA-C	-7.98	101.28	111.02
1	g	254	GLN	N-CA-C	-7.97	101.71	112.94
1	m	11	PRO	N-CA-C	7.95	120.40	110.70
1	C	147	GLY	CA-C-N	7.95	129.77	119.84
1	C	147	GLY	C-N-CA	7.95	129.77	119.84
1	E	11	PRO	N-CA-C	7.95	120.39	110.70
1	V	504	ARG	CA-C-N	-7.94	111.56	119.90
1	V	504	ARG	C-N-CA	-7.94	111.56	119.90
1	F	519	GLY	CA-C-N	7.94	129.77	119.84
1	F	519	GLY	C-N-CA	7.94	129.77	119.84
1	J	329	GLN	N-CA-C	-7.93	100.77	111.96
1	R	11	PRO	N-CA-C	7.91	120.35	110.70
1	N	11	PRO	N-CA-C	7.88	120.31	110.70
1	i	10	ILE	CA-C-N	7.86	128.47	120.38
1	i	10	ILE	C-N-CA	7.86	128.47	120.38
1	g	10	ILE	CA-C-N	7.86	128.47	120.38
1	g	10	ILE	C-N-CA	7.86	128.47	120.38
1	F	329	GLN	N-CA-C	-7.85	102.67	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	147	GLY	CA-C-N	7.84	129.64	119.84
1	i	147	GLY	C-N-CA	7.84	129.64	119.84
1	K	504	ARG	CA-C-N	-7.83	111.68	119.90
1	K	504	ARG	C-N-CA	-7.83	111.68	119.90
1	O	329	GLN	N-CA-C	-7.82	101.48	111.02
1	k	254	GLN	N-CA-C	-7.82	101.88	113.61
1	e	504	ARG	CA-C-N	-7.80	111.57	119.99
1	e	504	ARG	C-N-CA	-7.80	111.57	119.99
1	a	133	ASN	N-CA-C	7.79	119.55	111.14
1	Z	147	GLY	CA-C-N	7.77	129.56	119.84
1	Z	147	GLY	C-N-CA	7.77	129.56	119.84
1	X	329	GLN	N-CA-C	-7.76	101.79	111.11
1	F	147	GLY	CA-C-N	7.75	129.53	119.84
1	F	147	GLY	C-N-CA	7.75	129.53	119.84
1	c	10	ILE	CA-C-N	7.75	128.36	120.38
1	c	10	ILE	C-N-CA	7.75	128.36	120.38
1	m	504	ARG	CA-C-N	-7.73	111.64	119.99
1	m	504	ARG	C-N-CA	-7.73	111.64	119.99
1	A	147	GLY	CA-C-N	7.73	129.50	119.84
1	A	147	GLY	C-N-CA	7.73	129.50	119.84
1	B	147	GLY	CA-C-N	7.69	129.45	119.84
1	B	147	GLY	C-N-CA	7.69	129.45	119.84
1	G	10	ILE	CA-C-N	7.69	128.30	120.38
1	G	10	ILE	C-N-CA	7.69	128.30	120.38
1	W	147	GLY	CA-C-N	7.68	129.44	119.84
1	W	147	GLY	C-N-CA	7.68	129.44	119.84
1	k	329	GLN	N-CA-C	-7.68	101.65	111.02
1	Y	10	ILE	CA-C-N	7.67	128.28	120.38
1	Y	10	ILE	C-N-CA	7.67	128.28	120.38
1	A	10	ILE	CA-C-N	7.64	128.25	120.38
1	A	10	ILE	C-N-CA	7.64	128.25	120.38
1	l	147	GLY	CA-C-N	7.62	129.36	119.84
1	l	147	GLY	C-N-CA	7.62	129.36	119.84
1	W	10	ILE	CA-C-N	7.61	128.22	120.38
1	W	10	ILE	C-N-CA	7.61	128.22	120.38
1	M	168	ILE	N-CA-C	7.60	114.34	106.21
1	L	201	VAL	N-CA-C	7.58	117.62	106.85
1	a	10	ILE	CA-C-N	7.58	128.18	120.38
1	a	10	ILE	C-N-CA	7.58	128.18	120.38
1	L	104	VAL	N-CA-C	7.55	125.04	109.34
1	D	504	ARG	CA-C-N	-7.55	111.97	119.90
1	D	504	ARG	C-N-CA	-7.55	111.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	201	VAL	N-CA-C	7.53	117.54	106.85
1	P	329	GLN	N-CA-C	-7.51	101.86	111.02
1	J	10	ILE	CA-C-N	7.50	128.11	120.38
1	J	10	ILE	C-N-CA	7.50	128.11	120.38
1	O	147	GLY	CA-C-N	7.50	129.22	119.84
1	O	147	GLY	C-N-CA	7.50	129.22	119.84
1	K	104	VAL	N-CA-C	7.49	124.92	109.34
1	F	254	GLN	N-CA-C	-7.47	102.08	113.89
1	H	419	LEU	CA-C-N	7.45	127.12	119.82
1	H	419	LEU	C-N-CA	7.45	127.12	119.82
1	E	147	GLY	CA-C-N	7.44	129.14	119.84
1	E	147	GLY	C-N-CA	7.44	129.14	119.84
1	i	504	ARG	CA-C-N	-7.43	111.96	119.99
1	i	504	ARG	C-N-CA	-7.43	111.96	119.99
1	d	330	GLN	N-CA-C	7.39	119.31	110.44
1	M	135	ASP	N-CA-C	7.38	116.98	108.49
1	b	147	GLY	CA-C-N	7.35	129.03	119.84
1	b	147	GLY	C-N-CA	7.35	129.03	119.84
1	S	192	THR	N-CA-C	7.31	120.30	111.82
1	j	130	GLU	N-CA-C	7.28	121.89	113.38
1	L	11	PRO	N-CA-C	7.25	119.55	110.70
1	f	130	GLU	N-CA-C	7.24	121.85	113.38
1	U	10	ILE	CA-C-N	7.24	127.83	120.38
1	U	10	ILE	C-N-CA	7.24	127.83	120.38
1	P	504	ARG	CA-C-N	-7.19	111.38	120.23
1	P	504	ARG	C-N-CA	-7.19	111.38	120.23
1	L	131	ASP	N-CA-C	7.18	121.68	112.34
1	m	330	GLN	N-CA-C	7.18	119.38	109.54
1	G	147	GLY	CA-C-N	7.16	128.79	119.84
1	G	147	GLY	C-N-CA	7.16	128.79	119.84
1	S	504	ARG	CA-C-N	-7.10	112.10	120.13
1	S	504	ARG	C-N-CA	-7.10	112.10	120.13
1	L	147	GLY	CA-C-N	7.09	128.70	119.84
1	L	147	GLY	C-N-CA	7.09	128.70	119.84
1	P	64	PRO	N-CA-C	7.08	122.69	114.20
1	L	205	LEU	N-CA-C	-7.06	100.76	109.65
1	k	11	PRO	CA-C-N	-7.06	112.92	120.47
1	k	11	PRO	C-N-CA	-7.06	112.92	120.47
1	Z	130	GLU	N-CA-C	7.04	121.83	113.23
1	f	296	LEU	N-CA-C	7.02	119.83	111.33
1	V	149	GLY	N-CA-C	7.01	120.84	110.60
1	Z	10	ILE	CA-C-N	6.99	127.58	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	10	ILE	C-N-CA	6.99	127.58	120.38
1	T	10	ILE	CA-C-N	6.98	127.57	120.38
1	T	10	ILE	C-N-CA	6.98	127.57	120.38
1	O	154	GLN	N-CA-C	6.98	119.22	108.12
1	K	11	PRO	CA-C-N	-6.98	113.00	120.47
1	K	11	PRO	C-N-CA	-6.98	113.00	120.47
1	g	329	GLN	N-CA-C	-6.97	102.51	111.02
1	j	147	GLY	CA-C-N	6.96	128.54	119.84
1	j	147	GLY	C-N-CA	6.96	128.54	119.84
1	K	3	THR	OG1-CB-CG2	6.95	123.20	109.30
1	Y	3	THR	OG1-CB-CG2	6.94	123.18	109.30
1	L	154	GLN	N-CA-C	6.93	119.14	108.12
1	c	130	GLU	N-CA-C	6.91	121.01	112.58
1	W	3	THR	CA-CB-OG1	6.91	119.96	109.60
1	J	330	GLN	N-CA-C	6.91	118.28	108.54
1	D	130	GLU	N-CA-C	6.90	120.95	111.71
1	R	3	THR	OG1-CB-CG2	6.89	123.08	109.30
1	M	130	GLU	N-CA-C	6.89	121.04	111.74
1	E	154	GLN	N-CA-C	6.87	119.01	108.30
1	l	3	THR	OG1-CB-CG2	6.86	123.01	109.30
1	X	504	ARG	CA-C-N	-6.85	111.80	120.23
1	X	504	ARG	C-N-CA	-6.85	111.80	120.23
1	N	3	THR	OG1-CB-CG2	6.85	123.00	109.30
1	L	3	THR	OG1-CB-CG2	6.85	123.00	109.30
1	k	3	THR	OG1-CB-CG2	6.84	122.99	109.30
1	G	3	THR	OG1-CB-CG2	6.82	122.95	109.30
1	O	3	THR	OG1-CB-CG2	6.82	122.95	109.30
1	m	3	THR	OG1-CB-CG2	6.82	122.95	109.30
1	j	10	ILE	CA-C-N	6.82	127.41	120.38
1	j	10	ILE	C-N-CA	6.82	127.41	120.38
1	k	130	GLU	N-CA-C	6.82	121.18	112.86
1	k	115	VAL	N-CA-C	6.82	117.70	107.75
1	E	3	THR	OG1-CB-CG2	6.81	122.92	109.30
1	Y	147	GLY	CA-C-N	6.81	128.35	119.84
1	Y	147	GLY	C-N-CA	6.81	128.35	119.84
1	W	154	GLN	N-CA-C	6.80	118.91	108.30
1	P	253	VAL	N-CA-CB	6.80	122.45	111.23
1	j	504	ARG	CA-C-N	-6.79	112.91	120.45
1	j	504	ARG	C-N-CA	-6.79	112.91	120.45
1	P	154	GLN	N-CA-C	6.78	118.90	108.12
1	I	11	PRO	N-CA-C	6.78	118.97	110.70
1	X	10	ILE	CA-C-N	6.77	127.36	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	10	ILE	C-N-CA	6.77	127.36	120.38
1	V	3	THR	CA-CB-OG1	6.77	119.75	109.60
1	h	329	GLN	N-CA-C	-6.77	102.99	111.11
1	i	329	GLN	N-CA-C	-6.75	102.78	111.02
1	M	3	THR	OG1-CB-CG2	6.75	122.79	109.30
1	R	519	GLY	CA-C-N	6.74	128.26	119.84
1	R	519	GLY	C-N-CA	6.74	128.26	119.84
1	U	130	GLU	N-CA-C	6.73	121.25	113.38
1	X	3	THR	OG1-CB-CG2	6.73	122.76	109.30
1	b	3	THR	OG1-CB-CG2	6.73	122.75	109.30
1	C	380	ILE	N-CA-C	6.71	114.54	107.76
1	e	3	THR	OG1-CB-CG2	6.71	122.72	109.30
1	P	147	GLY	CA-C-N	6.71	128.22	119.84
1	P	147	GLY	C-N-CA	6.71	128.22	119.84
1	U	3	THR	OG1-CB-CG2	6.71	122.71	109.30
1	Q	3	THR	CA-CB-OG1	6.70	119.66	109.60
1	W	130	GLU	N-CA-C	6.70	120.75	111.90
1	a	504	ARG	CA-C-N	-6.70	112.56	120.13
1	a	504	ARG	C-N-CA	-6.70	112.56	120.13
1	f	154	GLN	N-CA-C	6.70	119.53	108.48
1	B	3	THR	CA-CB-OG1	6.69	119.64	109.60
1	O	519	GLY	CA-C-N	6.69	128.20	119.84
1	O	519	GLY	C-N-CA	6.69	128.20	119.84
1	I	3	THR	OG1-CB-CG2	6.68	122.65	109.30
1	j	3	THR	OG1-CB-CG2	6.67	122.65	109.30
1	K	147	GLY	CA-C-N	6.67	128.18	119.84
1	K	147	GLY	C-N-CA	6.67	128.18	119.84
1	g	3	THR	CA-CB-OG1	6.67	119.61	109.60
1	P	3	THR	OG1-CB-CG2	6.67	122.64	109.30
1	f	135	ASP	N-CA-C	6.67	116.67	107.73
1	Z	3	THR	OG1-CB-CG2	6.67	122.63	109.30
1	C	3	THR	OG1-CB-CG2	6.66	122.62	109.30
1	A	3	THR	OG1-CB-CG2	6.66	122.61	109.30
1	f	115	VAL	N-CA-C	6.65	117.87	108.36
1	H	3	THR	OG1-CB-CG2	6.65	122.60	109.30
1	O	554	ASP	CA-C-N	6.64	126.23	119.19
1	O	554	ASP	C-N-CA	6.64	126.23	119.19
1	D	3	THR	OG1-CB-CG2	6.64	122.58	109.30
1	c	3	THR	CA-CB-OG1	6.63	119.55	109.60
1	D	3	THR	CA-CB-OG1	6.63	119.54	109.60
1	H	3	THR	CA-CB-OG1	6.63	119.54	109.60
1	a	3	THR	OG1-CB-CG2	6.62	122.55	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	3	THR	CA-CB-OG1	6.62	119.52	109.60
1	T	3	THR	OG1-CB-CG2	6.61	122.51	109.30
1	J	3	THR	OG1-CB-CG2	6.60	122.50	109.30
1	F	3	THR	CA-CB-OG1	6.59	119.49	109.60
1	h	3	THR	OG1-CB-CG2	6.59	122.48	109.30
1	F	3	THR	OG1-CB-CG2	6.59	122.47	109.30
1	S	3	THR	CA-CB-OG1	6.59	119.48	109.60
1	G	329	GLN	N-CA-C	-6.58	103.21	111.11
1	f	10	ILE	CA-C-N	6.58	127.16	120.38
1	f	10	ILE	C-N-CA	6.58	127.16	120.38
1	Y	201	VAL	N-CA-C	6.57	117.30	107.51
1	f	3	THR	OG1-CB-CG2	6.57	122.45	109.30
1	j	165	ALA	CB-CA-C	-6.57	99.03	109.80
1	J	3	THR	CA-CB-OG1	6.56	119.45	109.60
1	S	3	THR	OG1-CB-CG2	6.56	122.42	109.30
1	U	329	GLN	N-CA-C	-6.55	103.25	111.11
1	Q	130	GLU	N-CA-C	6.55	121.05	113.38
1	l	10	ILE	CA-C-N	6.55	127.13	120.38
1	l	10	ILE	C-N-CA	6.55	127.13	120.38
1	E	419	LEU	CA-C-N	6.55	126.05	119.24
1	E	419	LEU	C-N-CA	6.55	126.05	119.24
1	l	330	GLN	N-CA-C	6.55	118.30	110.44
1	E	3	THR	CA-CB-OG1	6.54	119.42	109.60
1	M	3	THR	CA-CB-OG1	6.54	119.42	109.60
1	T	3	THR	CA-CB-OG1	6.54	119.42	109.60
1	K	201	VAL	N-CA-C	6.54	117.25	107.51
1	i	3	THR	CA-CB-OG1	6.53	119.39	109.60
1	A	330	GLN	N-CA-C	6.51	118.26	110.44
1	A	3	THR	CA-CB-OG1	6.51	119.36	109.60
1	L	504	ARG	CA-C-N	-6.51	112.78	120.13
1	L	504	ARG	C-N-CA	-6.51	112.78	120.13
1	k	289	GLY	CA-C-N	6.51	126.44	119.28
1	k	289	GLY	C-N-CA	6.51	126.44	119.28
1	c	154	GLN	N-CA-C	6.50	118.46	108.12
1	i	24	ASN	N-CA-C	6.50	118.41	110.41
1	E	330	GLN	N-CA-C	6.50	118.24	110.44
1	d	3	THR	CA-CB-OG1	6.50	119.35	109.60
1	X	3	THR	CA-CB-OG1	6.50	119.34	109.60
1	Q	192	THR	N-CA-C	6.50	120.46	112.54
1	N	329	GLN	N-CA-C	-6.49	103.32	111.11
1	B	3	THR	OG1-CB-CG2	6.49	122.28	109.30
1	Z	3	THR	CA-CB-OG1	6.49	119.33	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	3	THR	CA-CB-OG1	6.48	119.33	109.60
1	K	3	THR	CA-CB-OG1	6.48	119.33	109.60
1	L	3	THR	CA-CB-OG1	6.48	119.33	109.60
1	e	115	VAL	N-CA-C	6.48	117.19	108.11
1	V	10	ILE	CA-C-N	6.48	127.06	120.38
1	V	10	ILE	C-N-CA	6.48	127.06	120.38
1	j	115	VAL	N-CA-C	6.47	117.42	107.78
1	l	380	ILE	N-CA-C	6.47	114.30	107.76
1	R	10	ILE	CA-C-N	6.46	127.03	120.38
1	R	10	ILE	C-N-CA	6.46	127.03	120.38
1	E	131	ASP	N-CA-C	6.46	120.73	112.34
1	e	419	LEU	CA-C-N	6.45	125.95	119.24
1	e	419	LEU	C-N-CA	6.45	125.95	119.24
1	g	115	VAL	N-CA-C	6.45	117.16	107.80
1	G	3	THR	CA-CB-OG1	6.45	119.27	109.60
1	S	203	ALA	N-CA-C	6.45	119.11	108.99
1	N	154	GLN	N-CA-C	6.43	119.10	108.48
1	K	66	SER	N-CA-C	6.42	118.62	110.33
1	g	154	GLN	N-CA-C	6.42	118.33	108.12
1	c	402	ILE	N-CA-C	6.42	122.69	109.34
1	P	3	THR	CA-CB-OG1	6.42	119.22	109.60
1	h	69	THR	N-CA-C	6.42	118.06	107.73
1	F	131	ASP	N-CA-C	6.42	120.57	112.87
1	C	3	THR	CA-CB-OG1	6.41	119.22	109.60
1	h	3	THR	CA-CB-OG1	6.41	119.21	109.60
1	V	3	THR	OG1-CB-CG2	6.40	122.09	109.30
1	i	3	THR	OG1-CB-CG2	6.39	122.09	109.30
1	N	3	THR	CA-CB-OG1	6.38	119.18	109.60
1	g	3	THR	OG1-CB-CG2	6.38	122.06	109.30
1	X	201	VAL	N-CA-C	6.37	117.04	107.80
1	d	3	THR	OG1-CB-CG2	6.37	122.04	109.30
1	m	3	THR	CA-CB-OG1	6.37	119.16	109.60
1	X	167	VAL	N-CA-C	6.37	116.80	107.37
1	Z	519	GLY	CA-C-N	6.37	127.80	119.84
1	Z	519	GLY	C-N-CA	6.37	127.80	119.84
1	i	130	GLU	N-CA-C	6.35	120.33	112.58
1	Q	519	GLY	CA-C-N	6.35	127.78	119.84
1	Q	519	GLY	C-N-CA	6.35	127.78	119.84
1	j	3	THR	CA-CB-OG1	6.35	119.12	109.60
1	B	130	GLU	N-CA-C	6.35	120.36	112.24
1	b	3	THR	CA-CB-OG1	6.34	119.11	109.60
1	X	519	GLY	CA-C-N	6.34	127.76	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	519	GLY	C-N-CA	6.34	127.76	119.84
1	h	147	GLY	CA-C-N	6.33	127.76	119.84
1	h	147	GLY	C-N-CA	6.33	127.76	119.84
1	e	3	THR	CA-CB-OG1	6.33	119.09	109.60
1	j	419	LEU	CA-C-N	6.33	126.81	119.47
1	j	419	LEU	C-N-CA	6.33	126.81	119.47
1	X	243	HIS	N-CA-C	6.32	117.95	107.20
1	T	130	GLU	N-CA-C	6.32	120.27	111.74
1	D	133	ASN	N-CA-C	6.32	117.86	110.97
1	P	519	GLY	CA-C-N	6.32	127.73	119.84
1	P	519	GLY	C-N-CA	6.32	127.73	119.84
1	W	519	GLY	CA-C-N	6.31	127.73	119.84
1	W	519	GLY	C-N-CA	6.31	127.73	119.84
1	N	330	GLN	N-CA-C	6.31	117.43	108.54
1	a	3	THR	CA-CB-OG1	6.30	119.06	109.60
1	R	292	GLY	N-CA-C	-6.29	107.29	115.59
1	j	135	ASP	N-CA-C	6.28	116.15	107.73
1	c	3	THR	OG1-CB-CG2	6.28	121.86	109.30
1	L	59	CYS	N-CA-C	6.28	119.03	107.73
1	T	135	ASP	N-CA-C	6.27	116.52	108.24
1	O	3	THR	CA-CB-OG1	6.27	119.00	109.60
1	M	10	ILE	CA-C-N	6.26	126.83	120.38
1	M	10	ILE	C-N-CA	6.26	126.83	120.38
1	L	10	ILE	CA-C-N	6.25	126.82	120.38
1	L	10	ILE	C-N-CA	6.25	126.82	120.38
1	k	3	THR	CA-CB-OG1	6.25	118.98	109.60
1	f	3	THR	CA-CB-OG1	6.25	118.97	109.60
1	a	289	GLY	CA-C-N	6.24	125.97	119.05
1	a	289	GLY	C-N-CA	6.24	125.97	119.05
1	g	174	LEU	N-CA-C	6.24	119.57	109.40
1	Y	3	THR	CA-CB-OG1	6.23	118.95	109.60
1	E	396	GLY	N-CA-C	-6.23	107.67	115.08
1	g	192	THR	N-CA-C	6.23	120.14	112.54
1	W	3	THR	OG1-CB-CG2	6.21	121.73	109.30
1	M	69	THR	N-CA-C	6.20	117.71	107.73
1	e	147	GLY	CA-C-N	6.20	127.58	119.84
1	e	147	GLY	C-N-CA	6.20	127.58	119.84
1	c	108	ASP	N-CA-C	6.19	117.27	108.54
1	h	115	VAL	N-CA-C	6.19	116.93	107.77
1	Q	3	THR	OG1-CB-CG2	6.17	121.65	109.30
1	b	130	GLU	N-CA-C	6.17	120.08	111.56
1	L	292	GLY	N-CA-C	-6.17	107.26	115.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	192	THR	N-CA-C	6.17	118.97	111.82
1	E	174	LEU	N-CA-C	6.16	119.75	109.95
1	l	3	THR	CA-CB-OG1	6.15	118.82	109.60
1	i	174	LEU	N-CA-C	6.15	119.49	109.59
1	M	329	GLN	N-CA-C	-6.14	103.74	111.11
1	X	196	TRP	N-CA-C	6.14	119.41	109.40
1	e	174	LEU	N-CA-C	6.14	118.96	109.07
1	K	10	ILE	CA-C-N	6.14	126.70	120.38
1	K	10	ILE	C-N-CA	6.14	126.70	120.38
1	m	130	GLU	N-CA-C	6.13	120.14	111.92
1	E	380	ILE	N-CA-C	6.12	113.94	107.76
1	b	330	GLN	N-CA-C	6.11	120.04	111.30
1	l	519	GLY	CA-C-N	6.09	127.46	119.84
1	l	519	GLY	C-N-CA	6.09	127.46	119.84
1	R	3	THR	CA-CB-OG1	6.09	118.74	109.60
1	C	504	ARG	CA-C-N	-6.09	111.51	120.46
1	C	504	ARG	C-N-CA	-6.09	111.51	120.46
1	m	24	ASN	N-CA-C	6.07	117.88	110.41
1	B	149	GLY	N-CA-C	6.07	121.28	112.60
1	W	89	GLU	N-CA-C	6.06	118.40	109.24
1	G	504	ARG	CA-C-N	-6.06	113.56	119.87
1	G	504	ARG	C-N-CA	-6.06	113.56	119.87
1	S	154	GLN	N-CA-C	6.06	117.75	108.12
1	Q	289	GLY	CA-C-N	6.03	126.46	119.47
1	Q	289	GLY	C-N-CA	6.03	126.46	119.47
1	m	329	GLN	N-CA-C	-6.03	101.48	111.37
1	e	67	ARG	N-CA-C	6.03	118.57	109.23
1	T	342	GLU	N-CA-C	6.02	120.43	112.72
1	i	115	VAL	N-CA-C	6.02	116.75	107.78
1	a	154	GLN	N-CA-C	6.01	118.39	108.48
1	c	419	LEU	CA-C-N	6.00	125.22	118.97
1	c	419	LEU	C-N-CA	6.00	125.22	118.97
1	H	149	GLY	N-CA-C	5.99	121.18	112.55
1	L	108	ASP	N-CA-C	5.99	118.51	107.73
1	k	9	ARG	N-CA-C	5.99	118.20	108.26
1	I	24	ASN	N-CA-C	5.98	117.77	110.41
1	I	147	GLY	CA-C-N	5.98	127.31	119.84
1	I	147	GLY	C-N-CA	5.98	127.31	119.84
1	N	132	LYS	N-CA-C	5.98	118.50	109.41
1	c	147	GLY	CA-C-N	5.98	127.31	119.84
1	c	147	GLY	C-N-CA	5.98	127.31	119.84
1	e	329	GLN	N-CA-C	-5.98	103.73	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	298	GLN	N-CA-C	5.97	117.60	110.19
1	L	24	ASN	N-CA-C	5.97	117.75	110.41
1	a	147	GLY	CA-C-N	5.97	127.30	119.84
1	a	147	GLY	C-N-CA	5.97	127.30	119.84
1	Q	131	ASP	N-CA-C	5.96	120.09	112.34
1	k	10	ILE	CA-C-N	5.95	126.51	120.38
1	k	10	ILE	C-N-CA	5.95	126.51	120.38
1	O	10	ILE	CA-C-N	5.95	126.50	120.38
1	O	10	ILE	C-N-CA	5.95	126.50	120.38
1	i	303	LYS	N-CA-C	5.93	121.38	114.62
1	m	10	ILE	CA-C-N	5.93	126.48	120.38
1	m	10	ILE	C-N-CA	5.93	126.48	120.38
1	E	10	ILE	CA-C-N	5.92	126.48	120.38
1	E	10	ILE	C-N-CA	5.92	126.48	120.38
1	e	24	ASN	N-CA-C	5.92	117.97	110.33
1	i	151	TYR	N-CA-C	5.92	116.39	108.23
1	j	53	VAL	N-CA-C	5.91	114.00	108.15
1	I	329	GLN	N-CA-C	-5.91	103.82	111.02
1	m	115	VAL	N-CA-C	5.91	116.58	107.78
1	f	147	GLY	CA-C-N	5.90	127.22	119.84
1	f	147	GLY	C-N-CA	5.90	127.22	119.84
1	H	298	GLN	N-CA-C	5.90	118.63	109.60
1	c	24	ASN	N-CA-C	5.90	117.66	110.41
1	C	67	ARG	N-CA-C	5.89	117.91	109.14
1	M	147	GLY	CA-C-N	5.88	127.19	119.84
1	M	147	GLY	C-N-CA	5.88	127.19	119.84
1	D	519	GLY	CA-C-N	5.88	127.19	119.84
1	D	519	GLY	C-N-CA	5.88	127.19	119.84
1	Y	133	ASN	N-CA-C	5.88	121.01	111.37
1	d	97	PHE	CA-C-N	5.87	127.17	119.84
1	d	97	PHE	C-N-CA	5.87	127.17	119.84
1	l	24	ASN	N-CA-C	5.87	117.90	110.33
1	j	329	GLN	N-CA-C	-5.85	104.09	111.11
1	K	108	ASP	N-CA-C	5.85	118.26	107.73
1	a	169	LYS	N-CA-C	5.85	123.25	110.80
1	O	504	ARG	CA-C-N	-5.84	113.68	119.99
1	O	504	ARG	C-N-CA	-5.84	113.68	119.99
1	g	24	ASN	N-CA-C	5.83	117.85	110.33
1	B	289	GLY	CA-C-N	5.83	125.51	119.56
1	B	289	GLY	C-N-CA	5.83	125.51	119.56
1	R	136	LYS	N-CA-C	5.82	117.87	107.80
1	f	69	THR	N-CA-C	5.82	117.10	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	167	VAL	N-CA-C	5.82	116.25	107.75
1	f	292	GLY	N-CA-C	-5.81	107.73	115.40
1	i	133	ASN	N-CA-C	5.80	118.09	111.02
1	e	69	THR	N-CA-C	5.79	117.05	107.73
1	C	130	GLU	N-CA-C	5.79	119.47	111.71
1	R	151	TYR	N-CA-C	5.79	115.49	107.73
1	R	147	GLY	CA-C-N	5.79	127.07	119.84
1	R	147	GLY	C-N-CA	5.79	127.07	119.84
1	H	504	ARG	CA-C-N	-5.78	113.80	120.04
1	H	504	ARG	C-N-CA	-5.78	113.80	120.04
1	Y	169	LYS	N-CA-C	5.77	123.10	110.80
1	d	24	ASN	N-CA-C	5.77	117.51	110.41
1	T	554	ASP	CA-C-N	5.77	125.62	119.28
1	T	554	ASP	C-N-CA	5.77	125.62	119.28
1	T	2	ALA	N-CA-C	5.76	115.45	107.73
1	M	201	VAL	N-CA-C	5.76	115.63	106.88
1	I	2	ALA	N-CA-C	5.75	115.44	107.73
1	H	10	ILE	CA-C-N	5.75	126.31	120.38
1	H	10	ILE	C-N-CA	5.75	126.31	120.38
1	T	147	GLY	CA-C-N	5.75	127.03	119.84
1	T	147	GLY	C-N-CA	5.75	127.03	119.84
1	Q	115	VAL	N-CA-C	5.75	116.86	108.53
1	U	292	GLY	N-CA-C	-5.74	107.95	115.47
1	a	172	GLN	N-CA-C	5.73	118.12	109.23
1	A	380	ILE	N-CA-C	5.73	113.56	108.63
1	H	24	ASN	N-CA-C	5.73	117.46	110.41
1	f	174	LEU	N-CA-C	5.73	118.81	109.59
1	D	292	GLY	N-CA-C	-5.72	107.97	115.47
1	G	172	GLN	N-CA-C	5.72	117.88	109.24
1	R	203	ALA	N-CA-C	5.72	117.88	109.24
1	G	519	GLY	CA-C-N	5.72	126.99	119.84
1	G	519	GLY	C-N-CA	5.72	126.99	119.84
1	F	174	LEU	N-CA-C	5.71	118.79	109.59
1	S	9	ARG	N-CA-C	5.71	117.75	108.26
1	F	257	GLU	N-CA-C	5.71	119.56	109.96
1	T	115	VAL	N-CA-C	5.71	116.11	108.11
1	d	174	LEU	N-CA-C	5.71	118.79	109.59
1	b	115	VAL	N-CA-C	5.71	116.10	108.11
1	j	519	GLY	CA-C-N	5.71	126.97	119.84
1	j	519	GLY	C-N-CA	5.71	126.97	119.84
1	f	24	ASN	N-CA-C	5.70	117.42	110.41
1	L	132	LYS	N-CA-C	5.70	118.98	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	504	ARG	CA-C-N	-5.70	113.69	120.13
1	R	504	ARG	C-N-CA	-5.70	113.69	120.13
1	D	131	ASP	N-CA-C	5.70	119.33	112.38
1	e	105	LEU	N-CA-C	5.69	119.19	111.17
1	J	504	ARG	CA-C-N	-5.68	113.97	119.87
1	J	504	ARG	C-N-CA	-5.68	113.97	119.87
1	M	115	VAL	N-CA-C	5.68	116.12	108.17
1	f	105	LEU	N-CA-C	5.67	119.50	112.24
1	K	115	VAL	N-CA-C	5.67	116.11	108.17
1	k	490	ASP	CA-C-N	5.67	126.92	119.84
1	k	490	ASP	C-N-CA	5.67	126.92	119.84
1	P	303	LYS	N-CA-C	5.66	122.86	110.80
1	f	151	TYR	N-CA-C	5.66	115.32	107.73
1	a	149	GLY	N-CA-C	5.66	120.69	112.60
1	F	380	ILE	N-CA-C	5.66	114.10	107.77
1	N	296	LEU	N-CA-C	5.65	122.84	110.80
1	E	196	TRP	N-CA-C	5.65	118.61	109.40
1	Q	205	LEU	N-CA-C	-5.65	102.54	109.65
1	S	172	GLN	N-CA-C	5.64	117.64	109.07
1	X	69	THR	N-CA-C	5.64	116.72	108.14
1	N	174	LEU	N-CA-C	5.64	118.67	109.59
1	C	419	LEU	CA-C-N	5.63	125.30	119.56
1	C	419	LEU	C-N-CA	5.63	125.30	119.56
1	J	24	ASN	N-CA-C	5.63	117.59	110.33
1	m	174	LEU	N-CA-C	5.62	118.63	109.59
1	D	289	GLY	CA-C-N	5.61	125.45	119.28
1	D	289	GLY	C-N-CA	5.61	125.45	119.28
1	D	330	GLN	N-CA-C	5.61	117.75	108.49
1	N	115	VAL	N-CA-C	5.60	115.92	107.80
1	T	99	LEU	N-CA-C	5.59	117.12	110.19
1	l	115	VAL	N-CA-C	5.59	116.11	107.78
1	F	130	GLU	N-CA-C	5.59	119.90	112.30
1	e	396	GLY	N-CA-C	-5.59	108.43	115.08
1	M	292	GLY	N-CA-C	-5.59	108.15	115.47
1	Y	257	GLU	N-CA-C	5.59	118.93	109.76
1	d	298	GLN	N-CA-C	5.58	118.14	109.60
1	P	10	ILE	CA-C-N	5.58	126.12	120.38
1	P	10	ILE	C-N-CA	5.58	126.12	120.38
1	b	519	GLY	CA-C-N	5.57	126.81	119.84
1	b	519	GLY	C-N-CA	5.57	126.81	119.84
1	d	419	LEU	CA-C-N	5.57	125.93	119.47
1	d	419	LEU	C-N-CA	5.57	125.93	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	419	LEU	CA-C-N	5.57	125.24	119.56
1	l	419	LEU	C-N-CA	5.57	125.24	119.56
1	R	57	HIS	N-CA-C	5.56	115.46	108.45
1	P	172	GLN	N-CA-C	5.56	117.64	109.24
1	Q	22	ASN	N-CA-C	5.55	118.33	110.50
1	g	39	ASP	N-CA-C	5.55	118.45	109.79
1	F	201	VAL	N-CA-C	5.55	116.09	107.99
1	L	380	ILE	N-CA-C	5.54	113.36	107.76
1	a	303	LYS	N-CA-C	5.54	121.73	114.75
1	K	106	GLU	N-CA-C	5.54	118.62	110.59
1	E	257	GLU	N-CA-C	5.53	118.94	110.20
1	f	108	ASP	N-CA-C	5.53	118.57	107.41
1	O	69	THR	N-CA-C	5.52	116.62	107.73
1	i	289	GLY	CA-C-N	5.52	125.19	119.56
1	i	289	GLY	C-N-CA	5.52	125.19	119.56
1	B	174	LEU	N-CA-C	5.51	118.46	109.59
1	W	167	VAL	N-CA-C	5.51	116.04	107.28
1	l	174	LEU	N-CA-C	5.50	118.45	109.59
1	d	167	VAL	N-CA-C	5.50	115.78	107.75
1	Y	67	ARG	N-CA-C	5.50	117.54	109.24
1	a	419	LEU	CA-C-N	5.50	125.15	119.05
1	a	419	LEU	C-N-CA	5.50	125.15	119.05
1	R	490	ASP	CA-C-N	5.50	126.71	119.84
1	R	490	ASP	C-N-CA	5.50	126.71	119.84
1	W	303	LYS	N-CA-C	5.50	121.67	114.75
1	R	66	SER	N-CA-C	5.49	117.42	110.33
1	N	172	GLN	N-CA-C	5.49	117.42	109.07
1	V	329	GLN	N-CA-C	-5.49	105.21	111.14
1	m	2	ALA	N-CA-C	5.49	115.08	107.73
1	K	303	LYS	N-CA-C	5.49	121.53	114.56
1	P	63	ASN	CA-C-N	5.49	126.21	120.12
1	P	63	ASN	C-N-CA	5.49	126.21	120.12
1	O	66	SER	N-CA-C	5.49	116.99	110.19
1	E	292	GLY	N-CA-C	-5.48	107.41	115.30
1	L	172	GLN	N-CA-C	5.47	117.38	109.07
1	P	464	HIS	N-CA-C	5.47	116.92	111.07
1	D	220	ILE	N-CA-C	5.46	116.77	111.91
1	U	235	PHE	N-CA-C	5.46	115.75	108.38
1	d	292	GLY	N-CA-C	-5.46	108.32	115.47
1	g	69	THR	N-CA-C	5.46	116.52	107.73
1	i	167	VAL	N-CA-C	5.46	115.98	108.12
1	W	504	ARG	CA-C-N	-5.46	112.44	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	504	ARG	C-N-CA	-5.46	112.44	120.46
1	d	132	LYS	N-CA-C	5.46	117.70	109.41
1	m	257	GLU	N-CA-C	5.45	118.82	110.20
1	K	73	VAL	N-CA-C	5.45	115.09	106.32
1	j	262	ASP	N-CA-C	-5.45	99.19	110.80
1	P	330	GLN	N-CA-C	5.45	119.06	107.67
1	e	108	ASP	N-CA-C	5.45	116.84	109.11
1	P	174	LEU	N-CA-C	5.44	118.35	109.59
1	T	519	GLY	CA-C-N	5.44	126.64	119.84
1	T	519	GLY	C-N-CA	5.44	126.64	119.84
1	W	115	VAL	N-CA-C	5.44	116.11	108.17
1	K	142	GLU	N-CA-C	5.44	117.25	108.34
1	X	164	GLN	N-CA-C	5.43	116.93	110.19
1	b	396	GLY	N-CA-C	-5.43	108.61	115.08
1	d	69	THR	N-CA-C	5.43	116.47	107.73
1	I	303	LYS	N-CA-C	5.42	121.45	114.56
1	E	130	GLU	N-CA-C	5.42	121.75	113.51
1	b	69	THR	N-CA-C	5.42	116.46	107.73
1	Q	135	ASP	N-CA-C	5.41	116.21	108.74
1	W	172	GLN	N-CA-C	5.41	117.41	109.24
1	Y	329	GLN	N-CA-C	-5.41	104.26	111.24
1	I	192	THR	N-CA-C	5.41	119.72	113.18
1	Y	507	ARG	CA-C-N	5.41	124.92	119.19
1	Y	507	ARG	C-N-CA	5.41	124.92	119.19
1	S	174	LEU	N-CA-C	5.40	118.28	109.59
1	h	174	LEU	N-CA-C	5.40	118.28	109.59
1	Y	69	THR	N-CA-C	5.40	116.42	107.73
1	X	67	ARG	N-CA-C	5.39	117.27	109.07
1	E	519	GLY	CA-C-N	5.39	126.58	119.84
1	E	519	GLY	C-N-CA	5.39	126.58	119.84
1	F	419	LEU	CA-C-N	5.39	124.72	118.85
1	F	419	LEU	C-N-CA	5.39	124.72	118.85
1	A	130	GLU	N-CA-C	5.39	118.18	109.83
1	b	169	LYS	N-CA-C	5.38	122.27	110.80
1	C	298	GLN	N-CA-C	5.38	116.86	110.19
1	N	10	ILE	CA-C-N	5.38	125.92	120.38
1	N	10	ILE	C-N-CA	5.38	125.92	120.38
1	N	289	GLY	CA-C-N	5.38	125.05	119.56
1	N	289	GLY	C-N-CA	5.38	125.05	119.56
1	Y	338	GLN	CA-C-N	-5.38	114.80	120.66
1	Y	338	GLN	C-N-CA	-5.38	114.80	120.66
1	f	329	GLN	N-CA-C	-5.38	105.06	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	174	LEU	N-CA-C	5.37	118.57	109.76
1	B	66	SER	N-CA-C	5.37	116.85	110.19
1	X	154	GLN	N-CA-C	5.37	117.56	109.23
1	M	257	GLU	N-CA-C	5.37	118.57	109.76
1	I	296	LEU	N-CA-C	5.36	122.22	110.80
1	b	335	LYS	N-CA-C	5.36	117.14	108.34
1	Z	329	GLN	N-CA-C	-5.36	105.08	111.03
1	K	131	ASP	N-CA-C	5.36	119.31	112.34
1	B	169	LYS	N-CA-C	5.35	122.19	110.80
1	M	24	ASN	N-CA-C	5.35	116.98	110.41
1	O	67	ARG	N-CA-C	5.35	118.15	108.69
1	R	11	PRO	CA-C-N	-5.34	114.75	120.47
1	R	11	PRO	C-N-CA	-5.34	114.75	120.47
1	Z	204	TYR	N-CA-C	5.34	118.70	110.42
1	N	67	ARG	N-CA-C	5.34	117.50	109.23
1	L	106	GLU	N-CA-C	5.33	118.69	110.42
1	N	66	SER	N-CA-C	5.33	116.80	110.19
1	R	257	GLU	N-CA-C	5.33	118.75	110.17
1	J	176	LEU	N-CA-C	5.33	117.01	107.80
1	N	105	LEU	N-CA-C	5.33	119.61	113.38
1	e	519	GLY	CA-C-N	5.33	126.50	119.84
1	e	519	GLY	C-N-CA	5.33	126.50	119.84
1	g	396	GLY	N-CA-C	-5.33	108.74	115.08
1	M	106	GLU	N-CA-C	5.32	116.93	108.79
1	M	142	GLU	N-CA-C	5.32	117.57	108.90
1	Z	172	GLN	N-CA-C	5.32	117.48	109.23
1	k	419	LEU	CA-C-N	5.32	124.99	119.56
1	k	419	LEU	C-N-CA	5.32	124.99	119.56
1	C	201	VAL	N-CA-C	5.32	115.43	107.51
1	Q	142	GLU	N-CA-C	5.31	117.05	108.34
1	H	493	GLU	N-CA-C	5.31	117.58	110.35
1	J	87	ASP	N-CA-C	5.31	117.54	109.63
1	f	275	THR	N-CA-C	5.31	117.06	108.41
1	S	24	ASN	N-CA-C	5.30	116.93	110.41
1	S	69	THR	N-CA-C	5.30	116.27	107.73
1	D	154	GLN	N-CA-C	5.30	117.23	108.48
1	H	2	ALA	N-CA-C	5.30	114.83	107.73
1	O	330	GLN	N-CA-C	5.30	117.23	108.49
1	I	132	LYS	N-CA-C	5.30	116.70	109.18
1	M	172	GLN	N-CA-C	5.29	117.23	109.24
1	I	172	GLN	N-CA-C	5.29	117.23	109.24
1	X	169	LYS	N-CA-C	5.29	122.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	11	PRO	CA-C-N	-5.29	113.22	119.84
1	e	11	PRO	C-N-CA	-5.29	113.22	119.84
1	P	105	LEU	N-CA-C	5.28	119.67	113.23
1	P	130	GLU	N-CA-C	5.28	122.05	110.80
1	P	257	GLU	N-CA-C	5.28	118.42	109.76
1	T	174	LEU	N-CA-C	5.28	118.09	109.59
1	a	24	ASN	N-CA-C	5.28	116.90	110.41
1	c	461	ARG	CA-C-N	-5.28	118.79	122.59
1	c	461	ARG	C-N-CA	-5.28	118.79	122.59
1	N	151	TYR	N-CA-C	5.27	114.55	108.49
1	c	69	THR	N-CA-C	5.27	116.45	108.07
1	B	115	VAL	N-CA-C	5.27	115.63	107.78
1	J	201	VAL	N-CA-C	5.26	114.88	106.88
1	V	172	GLN	N-CA-C	5.26	117.19	109.24
1	X	502	ALA	N-CA-C	5.26	122.01	110.80
1	k	270	VAL	N-CA-C	5.26	115.35	107.51
1	J	136	LYS	N-CA-C	5.26	116.90	107.80
1	K	490	ASP	CA-C-N	5.26	126.41	119.84
1	K	490	ASP	C-N-CA	5.26	126.41	119.84
1	K	151	TYR	N-CA-C	5.25	115.99	108.74
1	G	89	GLU	N-CA-C	5.25	118.15	109.85
1	J	147	GLY	CA-C-N	5.25	126.41	119.84
1	J	147	GLY	C-N-CA	5.25	126.41	119.84
1	M	174	LEU	N-CA-C	5.25	118.38	109.76
1	g	519	GLY	CA-C-N	5.25	126.41	119.84
1	g	519	GLY	C-N-CA	5.25	126.41	119.84
1	I	151	TYR	N-CA-C	5.25	115.47	108.38
1	Q	136	LYS	N-CA-C	5.25	116.98	108.26
1	G	330	GLN	N-CA-C	5.25	116.73	109.54
1	H	810	LEU	N-CA-C	-5.25	107.05	113.50
1	e	59	CYS	N-CA-C	5.25	117.96	107.62
1	i	296	LEU	N-CA-C	5.25	121.98	110.80
1	j	166	THR	N-CA-C	5.25	118.04	109.59
1	k	108	ASP	N-CA-C	5.24	117.67	107.71
1	Y	504	ARG	CA-C-N	-5.24	114.63	120.45
1	Y	504	ARG	C-N-CA	-5.24	114.63	120.45
1	R	108	ASP	N-CA-C	5.24	118.80	107.49
1	U	380	ILE	N-CA-C	5.24	114.23	108.05
1	Z	169	LYS	N-CA-C	5.23	121.95	110.80
1	K	174	LEU	N-CA-C	5.23	118.34	109.76
1	A	24	ASN	N-CA-C	5.23	117.28	110.53
1	Q	73	VAL	N-CA-C	5.23	114.28	106.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	502	ALA	N-CA-C	5.23	121.94	110.80
1	b	298	GLN	N-CA-C	5.23	116.67	110.19
1	k	97	PHE	CA-C-N	5.23	126.37	119.84
1	k	97	PHE	C-N-CA	5.23	126.37	119.84
1	a	131	ASP	N-CA-C	5.23	118.75	112.38
1	Q	10	ILE	CA-C-N	5.22	125.75	120.38
1	Q	10	ILE	C-N-CA	5.22	125.75	120.38
1	d	105	LEU	N-CA-C	5.22	118.59	111.39
1	c	67	ARG	N-CA-C	5.21	116.21	108.86
1	c	298	GLN	N-CA-C	5.21	117.58	109.60
1	d	108	ASP	N-CA-C	5.21	117.94	107.41
1	i	176	LEU	N-CA-C	5.21	116.82	107.80
1	C	2	ALA	N-CA-C	5.21	114.71	107.73
1	I	275	THR	N-CA-C	5.21	117.14	108.02
1	K	145	PHE	N-CA-C	5.21	117.29	108.02
1	I	131	ASP	N-CA-C	5.21	119.39	113.19
1	h	67	ARG	N-CA-C	5.21	117.16	108.99
1	F	132	LYS	N-CA-C	5.20	117.44	109.95
1	j	2	ALA	N-CA-C	5.20	114.70	107.73
1	f	11	PRO	CA-C-N	-5.20	114.91	120.47
1	f	11	PRO	C-N-CA	-5.20	114.91	120.47
1	k	105	LEU	N-CA-C	5.20	118.89	112.24
1	B	396	GLY	N-CA-C	-5.20	108.15	115.32
1	F	628	PHE	CA-C-N	5.20	125.24	119.32
1	F	628	PHE	C-N-CA	5.20	125.24	119.32
1	i	275	THR	N-CA-C	5.19	116.87	108.41
1	S	330	GLN	N-CA-C	5.19	117.05	108.49
1	k	131	ASP	N-CA-C	5.19	119.23	113.01
1	N	159	VAL	N-CA-C	-5.18	105.55	110.42
1	V	419	LEU	CA-C-N	5.18	124.90	119.82
1	V	419	LEU	C-N-CA	5.18	124.90	119.82
1	h	24	ASN	N-CA-C	5.18	117.55	110.55
1	R	188	LYS	N-CA-C	5.18	119.32	113.15
1	Y	152	ILE	N-CA-C	5.18	114.03	108.95
1	Q	262	ASP	N-CA-C	-5.18	99.77	110.80
1	k	201	VAL	N-CA-C	5.18	120.11	109.34
1	a	142	GLU	N-CA-C	5.17	116.83	108.34
1	P	35	TYR	N-CA-C	5.17	117.59	108.75
1	F	2	ALA	N-CA-C	5.17	114.66	107.73
1	K	172	GLN	N-CA-C	5.17	117.05	109.24
1	S	519	GLY	CA-C-N	5.17	126.30	119.84
1	S	519	GLY	C-N-CA	5.17	126.30	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	2	ALA	N-CA-C	5.17	114.66	107.73
1	h	292	GLY	N-CA-C	-5.17	108.48	115.36
1	E	490	ASP	CA-C-N	5.16	126.29	119.84
1	E	490	ASP	C-N-CA	5.16	126.29	119.84
1	I	69	THR	N-CA-C	5.16	115.98	108.14
1	P	169	LYS	N-CA-C	5.16	121.79	110.80
1	O	172	GLN	N-CA-C	5.16	116.82	109.14
1	U	174	LEU	N-CA-C	5.16	118.22	109.76
1	Q	691	GLN	N-CA-C	-5.15	105.66	111.28
1	N	24	ASN	N-CA-C	5.15	117.33	110.53
1	Q	69	THR	N-CA-C	5.15	115.33	108.38
1	B	487	VAL	CB-CA-C	-5.15	103.72	110.98
1	c	115	VAL	N-CA-C	5.15	115.32	108.11
1	B	235	PHE	N-CA-C	5.15	115.33	108.38
1	D	2	ALA	N-CA-C	5.15	114.62	107.73
1	k	347	GLU	N-CA-C	-5.15	106.82	114.64
1	A	554	ASP	CA-C-N	5.14	125.18	119.32
1	A	554	ASP	C-N-CA	5.14	125.18	119.32
1	P	115	VAL	N-CA-C	5.14	115.98	108.53
1	f	554	ASP	CA-C-N	5.14	124.93	119.28
1	f	554	ASP	C-N-CA	5.14	124.93	119.28
1	m	154	GLN	N-CA-C	5.14	117.79	109.06
1	H	235	PHE	N-CA-C	5.14	115.31	108.38
1	X	33	LYS	N-CA-C	5.13	117.33	110.35
1	A	5	GLU	CB-CA-C	5.13	119.88	111.41
1	M	280	HIS	N-CA-C	5.13	117.85	109.59
1	S	419	LEU	CA-C-N	5.13	126.25	119.84
1	S	419	LEU	C-N-CA	5.13	126.25	119.84
1	e	201	VAL	N-CA-C	5.13	120.01	109.34
1	l	203	ALA	N-CA-C	5.13	116.47	109.18
1	G	152	ILE	N-CA-C	5.13	113.97	108.95
1	m	133	ASN	N-CA-C	5.13	117.78	110.24
1	Q	24	ASN	N-CA-C	5.12	116.94	110.33
1	k	519	GLY	CA-C-N	5.12	126.24	119.84
1	k	519	GLY	C-N-CA	5.12	126.24	119.84
1	H	167	VAL	N-CA-C	5.12	115.23	107.75
1	Z	69	THR	N-CA-C	5.12	115.92	108.14
1	T	507	ARG	CA-C-N	5.12	124.78	119.56
1	T	507	ARG	C-N-CA	5.12	124.78	119.56
1	X	89	GLU	N-CA-C	5.12	117.93	109.85
1	i	519	GLY	CA-C-N	5.12	126.23	119.84
1	i	519	GLY	C-N-CA	5.12	126.23	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	67	ARG	N-CA-C	5.11	117.16	109.23
1	M	108	ASP	N-CA-C	5.11	117.73	107.41
1	U	169	LYS	N-CA-C	5.11	121.69	110.80
1	f	257	GLU	N-CA-C	5.11	118.14	109.76
1	h	39	ASP	N-CA-C	5.11	117.76	109.79
1	A	37	ARG	N-CA-C	5.11	116.06	108.60
1	a	306	LYS	N-CA-C	5.11	117.73	108.69
1	H	130	GLU	N-CA-C	5.11	118.72	112.03
1	C	131	ASP	N-CA-C	5.11	119.14	113.01
1	G	57	HIS	N-CA-C	5.11	115.27	108.38
1	T	167	VAL	N-CA-C	5.11	115.20	107.75
1	L	289	GLY	CA-C-N	5.10	124.89	119.28
1	L	289	GLY	C-N-CA	5.10	124.89	119.28
1	h	66	SER	N-CA-C	5.10	117.40	109.60
1	i	503	GLY	N-CA-C	5.10	120.29	111.98
1	k	89	GLU	N-CA-C	5.10	117.16	109.41
1	m	99	LEU	N-CA-C	5.10	116.51	110.19
1	O	115	VAL	N-CA-C	5.09	115.61	108.17
1	R	67	ARG	N-CA-C	5.09	117.74	109.24
1	c	296	LEU	N-CA-C	5.09	121.64	110.80
1	j	131	ASP	N-CA-C	5.09	118.59	112.38
1	C	169	LYS	N-CA-C	5.08	121.63	110.80
1	L	554	ASP	CA-C-N	5.08	124.69	119.05
1	L	554	ASP	C-N-CA	5.08	124.69	119.05
1	O	257	GLU	N-CA-C	5.08	118.10	109.76
1	A	329	GLN	N-CA-C	-5.08	103.03	111.37
1	A	419	LEU	CA-C-N	5.08	125.36	119.47
1	A	419	LEU	C-N-CA	5.08	125.36	119.47
1	C	24	ASN	N-CA-C	5.08	117.09	110.53
1	W	142	GLU	N-CA-C	5.08	117.53	109.50
1	J	115	VAL	N-CA-C	5.08	115.23	108.27
1	f	298	GLN	N-CA-C	5.08	117.37	109.60
1	e	280	HIS	N-CA-C	5.08	117.77	109.59
1	G	115	VAL	N-CA-C	5.08	115.43	108.12
1	d	396	GLY	N-CA-C	-5.08	109.04	115.08
1	j	24	ASN	N-CA-C	5.07	117.23	110.53
1	R	22	ASN	N-CA-C	5.07	117.24	110.35
1	T	169	LYS	N-CA-C	5.07	121.59	110.80
1	X	2	ALA	N-CA-C	5.07	114.52	107.73
1	c	172	GLN	N-CA-C	5.07	116.69	109.14
1	f	464	HIS	N-CA-C	5.07	116.49	111.07
1	a	69	THR	N-CA-C	5.06	116.22	108.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	11	PRO	CA-C-N	-5.06	114.53	119.64
1	Q	11	PRO	C-N-CA	-5.06	114.53	119.64
1	k	174	LEU	N-CA-C	5.06	118.06	109.76
1	H	329	GLN	N-CA-C	-5.05	100.76	110.56
1	T	494	GLN	N-CA-C	5.05	117.81	109.72
1	a	279	ARG	N-CA-C	5.05	121.56	110.80
1	c	162	ILE	N-CA-C	5.05	115.32	107.28
1	K	169	LYS	N-CA-C	5.05	121.56	110.80
1	W	169	LYS	N-CA-C	5.05	121.56	110.80
1	A	174	LEU	N-CA-C	5.05	118.30	110.17
1	L	151	TYR	N-CA-C	5.05	114.90	108.24
1	J	303	LYS	N-CA-C	5.04	119.89	113.18
1	a	396	GLY	N-CA-C	-5.04	107.69	114.25
1	L	296	LEU	N-CA-C	5.04	121.54	110.80
1	X	39	ASP	N-CA-C	5.04	117.31	110.35
1	I	169	LYS	N-CA-C	5.04	121.53	110.80
1	V	235	PHE	N-CA-C	5.04	114.99	107.88
1	b	172	GLN	N-CA-C	5.04	116.85	109.24
1	B	73	VAL	N-CA-C	5.04	113.85	106.55
1	f	172	GLN	N-CA-C	5.04	116.73	109.07
1	Q	89	GLU	N-CA-C	5.04	117.33	109.52
1	E	506	LYS	N-CA-C	5.03	117.48	108.17
1	A	106	GLU	N-CA-C	5.03	116.72	109.07
1	A	172	GLN	N-CA-C	5.03	116.83	109.24
1	N	502	ALA	N-CA-C	5.03	119.87	113.18
1	M	3	THR	CB-CA-C	-5.03	100.66	109.71
1	T	396	GLY	N-CA-C	-5.03	107.72	114.25
1	g	67	ARG	N-CA-C	5.03	117.60	109.06
1	A	289	GLY	CA-C-N	5.02	124.63	119.56
1	A	289	GLY	C-N-CA	5.02	124.63	119.56
1	K	136	LYS	N-CA-C	5.02	116.49	107.80
1	a	502	ALA	N-CA-C	5.02	121.50	110.80
1	Z	192	THR	N-CA-C	5.02	119.03	113.01
1	L	22	ASN	N-CA-C	5.02	117.00	110.43
1	R	502	ALA	N-CA-C	5.02	121.07	114.75
1	U	176	LEU	N-CA-C	5.02	117.12	107.44
1	b	35	TYR	N-CA-C	5.02	117.57	108.69
1	E	243	HIS	N-CA-C	5.01	116.95	108.02
1	Y	24	ASN	N-CA-C	5.01	117.00	110.53
1	a	89	GLU	N-CA-C	5.01	117.03	109.41
1	B	203	ALA	N-CA-C	5.01	114.90	108.34
1	M	176	LEU	N-CA-C	5.01	116.94	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	142	GLU	N-CA-C	5.01	117.22	108.76
1	Y	151	TYR	N-CA-C	5.01	114.65	108.19
1	D	167	VAL	N-CA-C	5.00	114.78	107.37
1	B	108	ASP	N-CA-C	5.00	116.74	107.73
1	J	154	GLN	N-CA-C	5.00	116.84	108.99
1	j	162	ILE	N-CA-C	5.00	113.97	106.42
1	R	169	LYS	N-CA-C	5.00	121.45	110.80
1	T	137	VAL	N-CA-C	5.00	116.47	108.87
1	j	172	GLN	N-CA-C	5.00	117.27	109.52

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

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Mol	Chain	Res	Type	Atom
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

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 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6204	0	6224	511	0
1	B	6204	0	6224	522	0
1	C	6204	0	6224	529	0
1	D	6204	0	6224	549	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	6204	0	6224	531	0
1	F	6204	0	6224	503	0
1	G	6204	0	6224	502	0
1	H	6204	0	6224	518	0
1	I	6204	0	6224	522	0
1	J	6204	0	6224	541	0
1	K	6204	0	6224	568	0
1	L	6204	0	6224	610	0
1	M	6204	0	6224	579	0
1	N	6204	0	6224	536	0
1	O	6204	0	6224	528	0
1	P	6204	0	6224	567	0
1	Q	6204	0	6224	593	0
1	R	6204	0	6224	599	0
1	S	6204	0	6224	535	0
1	T	6204	0	6224	512	0
1	U	6204	0	6224	497	0
1	V	6204	0	6224	491	0
1	W	6204	0	6224	505	0
1	X	6204	0	6224	497	0
1	Y	6204	0	6224	496	0
1	Z	6204	0	6224	469	0
1	a	6204	0	6224	557	0
1	b	6204	0	6224	543	0
1	c	6204	0	6224	522	0
1	d	6204	0	6224	532	0
1	e	6204	0	6224	567	0
1	f	6204	0	6224	516	0
1	g	6204	0	6224	580	0
1	h	6204	0	6224	545	0
1	i	6204	0	6224	507	0
1	j	6204	0	6224	565	0
1	k	6204	0	6224	566	0
1	l	6204	0	6224	558	0
1	m	6204	0	6224	510	0
All	All	241956	0	242736	19150	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 40.

All (19150) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:654:LEU:CD1	1:l:662:ILE:HD13	1.45	1.45
1:N:132:LYS:NZ	1:N:152:ILE:HD12	1.31	1.42
1:D:77:ILE:CD1	1:D:80:GLN:HB2	1.58	1.32
1:j:132:LYS:NZ	1:j:152:ILE:HD12	1.46	1.31
1:i:653:ALA:HB1	1:j:662:ILE:CD1	1.61	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	1.61	1.28
1:k:654:LEU:HD11	1:l:662:ILE:CD1	1.62	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	1.51	1.23
1:P:653:ALA:CB	1:Q:662:ILE:HD11	1.67	1.22
1:c:653:ALA:HB1	1:d:662:ILE:CD1	1.69	1.21
1:d:13:TYR:O	1:d:36:ILE:HD13	1.38	1.21
1:k:132:LYS:NZ	1:k:152:ILE:HD12	1.53	1.21
1:U:653:ALA:CB	1:V:662:ILE:HD11	1.68	1.21
1:I:330:GLN:HG3	1:I:379:ALA:CB	1.68	1.21
1:b:20:ASP:HB2	1:b:49:ARG:HG3	1.23	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:HD13	1:G:36:ILE:O	1.42	1.19
1:i:745:LYS:HG3	1:j:753:ILE:CD1	1.73	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	1.21	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	1.74	1.17
1:f:653:ALA:CB	1:g:662:ILE:HD11	1.74	1.16
1:i:653:ALA:CB	1:j:662:ILE:HD11	1.76	1.16
1:l:54:PRO:HB2	1:l:55:PRO:HD3	1.22	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:V:653:ALA:CB	1:W:662:ILE:HD11	1.75	1.16
1:i:745:LYS:HG3	1:j:753:ILE:HD11	1.27	1.16
1:j:459:SER:HB3	1:j:488:THR:HG22	1.26	1.16
1:B:595:SER:O	1:B:599:ILE:HD13	1.42	1.16
1:I:653:ALA:CB	1:J:662:ILE:HD11	1.76	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:b:20:ASP:HB2	1:b:49:ARG:CG	1.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:P:653:ALA:HB1	1:Q:662:ILE:CD1	1.77	1.15
1:k:116:LEU:HB3	1:k:117:PRO:HD2	1.25	1.15
1:O:752:ALA:HA	1:O:755:THR:HG22	1.28	1.14
1:m:419:LEU:HG	1:m:420:PRO:HD2	1.17	1.14
1:e:653:ALA:HB1	1:f:662:ILE:HD11	1.18	1.14
1:B:653:ALA:CB	1:C:662:ILE:HD11	1.76	1.14
1:e:381:PRO:HA	1:e:405:THR:HG22	1.24	1.14
1:i:653:ALA:CB	1:j:662:ILE:CD1	2.25	1.14
1:j:745:LYS:HG3	1:k:753:ILE:CD1	1.76	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	1.28	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	1.77	1.13
1:A:116:LEU:HB3	1:A:117:PRO:HD2	1.21	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:b:653:ALA:CB	1:c:662:ILE:CD1	2.26	1.13
1:k:132:LYS:HZ1	1:k:152:ILE:HD12	1.02	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:e:745:LYS:HG3	1:f:753:ILE:CD1	1.78	1.12
1:f:54:PRO:HB2	1:f:55:PRO:HD3	1.17	1.12
1:b:381:PRO:HA	1:b:405:THR:HG22	1.31	1.12
1:O:327:SER:HB2	1:O:331:GLY:CA	1.79	1.11
1:U:382:LEU:HD11	1:U:388:ILE:CD1	1.80	1.11
1:a:116:LEU:HB3	1:a:117:PRO:HD2	1.29	1.11
1:g:54:PRO:HB2	1:g:55:PRO:HD3	1.23	1.11
1:i:176:LEU:HD13	1:i:209:PHE:HD1	1.15	1.11
1:l:653:ALA:HB1	1:m:662:ILE:HD11	1.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:1:MET:HE3	1:l:47:PRO:HB3	1.33	1.11
1:L:653:ALA:HB1	1:M:662:ILE:HD11	1.33	1.11
1:S:54:PRO:HB2	1:S:55:PRO:HD3	1.25	1.11
1:b:328:GLU:HA	1:b:328:GLU:OE1	1.51	1.11
1:I:36:ILE:HD12	1:I:98:PRO:HB3	1.15	1.10
1:I:49:ARG:NH2	1:J:8:ILE:HD12	1.64	1.10
1:Q:419:LEU:HG	1:Q:420:PRO:HD2	1.32	1.10
1:T:653:ALA:CB	1:U:662:ILE:HD11	1.80	1.10
1:i:330:GLN:HG3	1:i:379:ALA:HB3	1.18	1.10
1:l:18:VAL:HG13	1:l:48:VAL:HG22	1.32	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	1.14	1.10
1:c:116:LEU:HB3	1:c:117:PRO:HD2	1.20	1.10
1:e:419:LEU:HG	1:e:420:PRO:HD2	1.14	1.10
1:f:419:LEU:HG	1:f:420:PRO:HD2	1.23	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:b:327:SER:HB2	1:b:331:GLY:HA3	1.22	1.10
1:b:653:ALA:CB	1:c:662:ILE:HD11	1.81	1.10
1:d:653:ALA:HB1	1:e:662:ILE:HD11	1.13	1.10
1:j:381:PRO:HA	1:j:405:THR:HG22	1.21	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	1.81	1.10
1:l:653:ALA:CB	1:m:662:ILE:HD11	1.82	1.10
1:K:653:ALA:CB	1:L:662:ILE:CD1	2.30	1.10
1:F:54:PRO:HB2	1:F:55:PRO:HD3	1.19	1.09
1:b:116:LEU:HB3	1:b:117:PRO:HD2	1.33	1.09
1:f:381:PRO:HA	1:f:405:THR:HG22	1.10	1.09
1:f:452:ARG:HH11	1:f:452:ARG:HG3	1.04	1.09
1:L:328:GLU:HG3	1:L:329:GLN:H	1.05	1.09
1:T:459:SER:HB3	1:T:488:THR:HG22	1.34	1.09
1:B:176:LEU:HD13	1:B:209:PHE:HD1	1.11	1.09
1:C:287:PRO:HA	1:C:314:GLU:OE2	1.53	1.09
1:C:328:GLU:HA	1:C:328:GLU:OE1	1.52	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:J:419:LEU:HG	1:J:420:PRO:HD2	1.11	1.09
1:b:49:ARG:HH12	1:c:10:ILE:HG23	1.14	1.09
1:h:381:PRO:HA	1:h:405:THR:HG22	1.34	1.09
1:K:73:VAL:H	1:K:84:ARG:HB2	1.07	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:R:330:GLN:HG3	1:R:379:ALA:CB	1.82	1.09
1:U:1:MET:HE3	1:U:47:PRO:HB3	1.35	1.09
1:g:381:PRO:HA	1:g:405:THR:HG22	1.11	1.09
1:i:381:PRO:HA	1:i:405:THR:HG22	1.29	1.09
1:k:459:SER:HB3	1:k:488:THR:HG22	1.27	1.09
1:l:116:LEU:HB3	1:l:117:PRO:HD2	1.27	1.09
1:E:54:PRO:HB2	1:E:55:PRO:HD3	1.33	1.08
1:N:394:LYS:HG2	1:O:329:GLN:HG3	1.35	1.08
1:b:176:LEU:HD13	1:b:209:PHE:HD1	1.18	1.08
1:c:1:MET:HE3	1:c:47:PRO:HB3	1.30	1.08
1:m:18:VAL:HG13	1:m:48:VAL:HG22	1.35	1.08
1:K:164:GLN:NE2	1:K:204:TYR:HB2	1.68	1.08
1:Q:36:ILE:HD12	1:Q:98:PRO:HB3	1.12	1.08
1:V:330:GLN:HG3	1:V:379:ALA:HB3	1.09	1.08
1:Y:273:ILE:HD13	1:Y:316:LEU:HD11	1.35	1.08
1:b:18:VAL:HG13	1:b:48:VAL:HG22	1.34	1.08
1:f:653:ALA:HB1	1:g:662:ILE:HD11	1.11	1.08
1:g:18:VAL:HG13	1:g:48:VAL:HG22	1.29	1.08
1:k:419:LEU:HG	1:k:420:PRO:HD2	1.30	1.08
1:G:176:LEU:HD13	1:G:209:PHE:HD1	1.12	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:U:116:LEU:HB3	1:U:117:PRO:HD2	1.23	1.08
1:U:419:LEU:HG	1:U:420:PRO:HD2	1.31	1.08
1:c:70:GLN:HB3	1:c:104:VAL:O	1.54	1.08
1:C:54:PRO:HB2	1:C:55:PRO:HD3	1.35	1.08
1:D:653:ALA:CB	1:E:662:ILE:HD11	1.83	1.08
1:I:381:PRO:HA	1:I:405:THR:HG22	1.28	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:F:419:LEU:HG	1:F:420:PRO:HD2	1.33	1.07
1:J:459:SER:HB3	1:J:488:THR:HG22	1.31	1.07
1:h:330:GLN:HG3	1:h:379:ALA:HB3	1.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:3:THR:HG22	1:Z:50:MET:HE1	1.36	1.07
1:a:1:MET:HE3	1:a:47:PRO:HB3	1.34	1.07
1:R:77:ILE:HG13	1:R:79:GLY:H	1.09	1.07
1:i:394:LYS:HG2	1:j:329:GLN:HG3	1.28	1.07
1:j:273:ILE:HD13	1:j:316:LEU:HD11	1.36	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:G:54:PRO:HB2	1:G:55:PRO:HD3	1.36	1.07
1:k:328:GLU:HA	1:k:328:GLU:OE1	1.54	1.07
1:B:116:LEU:HB3	1:B:117:PRO:HD2	1.31	1.06
1:G:601:MET:HG2	1:G:622:ALA:HB2	1.37	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: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:H:116:LEU:HB3	1:H:117:PRO:HD2	1.37	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: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:b:459:SER:HB3	1:b:488:THR:HG22	1.32	1.06
1:d:1:MET:HE3	1:d:47:PRO:HB3	1.35	1.06
1:m:5:GLU:HG2	1:m:43:VAL:HG21	1.38	1.06
1:B:381:PRO:HA	1:B:405:THR:HG22	1.36	1.06
1:N:116:LEU:HB3	1:N:117:PRO:HD2	1.34	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
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:c:653:ALA:CB	1:d:662:ILE:HD11	1.84	1.06
1:k:381:PRO:HA	1:k:405:THR:HG22	1.31	1.06
1:E:116:LEU:HB3	1:E:117:PRO:HD2	1.35	1.06
1:L:54:PRO:HB2	1:L:55:PRO:HD3	1.20	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:i:116:LEU:HB3	1:i:117:PRO:HD2	1.36	1.06
1:M:381:PRO:HA	1:M:405:THR:HG22	1.35	1.05
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:H:1:MET:HE3	1:H:47:PRO:HB3	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:653:ALA:HB1	1:K:662:ILE:CD1	1.86	1.05
1:R:9:ARG:HH12	1:R:36:ILE:HA	1.15	1.05
1:R:36:ILE:HD13	1:R:36:ILE:O	1.55	1.05
1:h:394:LYS:HG2	1:i:329:GLN:HG3	1.36	1.05
1:M:419:LEU:HG	1:M:420:PRO:HD2	1.09	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:176:LEU:HD13	1:c:209:PHE:HD1	1.20	1.05
1:i:459:SER:HB3	1:i:488:THR:HG22	1.35	1.05
1:l:326:LEU:HD21	1:l:333:LEU:HG	1.39	1.05
1:L:653:ALA:CB	1:M:662:ILE:CD1	2.35	1.05
1:L:653:ALA:CB	1:M:662:ILE:HD11	1.85	1.05
1:M:459:SER:HB3	1:M:488:THR:HG22	1.37	1.05
1:Y:381:PRO:HA	1:Y:405:THR:HG22	1.36	1.05
1:c:653:ALA:CB	1:d:662:ILE:CD1	2.33	1.05
1:e:14:HIS:HB3	1:e:56:ARG:HB2	1.34	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: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:H:394:LYS:HG2	1:I:329:GLN:HG3	1.37	1.04
1:N:132:LYS:NZ	1:N:152:ILE:CD1	2.21	1.04
1:X:73:VAL:H	1:X:84:ARG:HB2	1.21	1.04
1:Z:116:LEU:HB3	1:Z:117:PRO:HD2	1.31	1.04
1:N:9:ARG:HH12	1:N:36:ILE:HA	1.22	1.04
1:e:653:ALA:CB	1:f:662:ILE:HD11	1.88	1.04
1:h:745:LYS:HG3	1:i:753:ILE:CD1	1.86	1.04
1:N:653:ALA:HB1	1:O:662:ILE:HD11	1.40	1.04
1:m:167:VAL:HB	1:m:201:VAL:O	1.58	1.04
1:m:328:GLU:OE1	1:m:328:GLU:HA	1.55	1.04
1:E:130:GLU:H	1:E:137:VAL:HG12	1.14	1.04
1:E:419:LEU:HG	1:E:420:PRO:HD2	1.35	1.04
1:f:328:GLU:HG3	1:f:329:GLN:H	1.23	1.04
1:l:381:PRO:HA	1:l:405:THR:HG22	1.37	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: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:S:338:GLN:HB2	1:S:339:PRO:HD3	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:54:PRO:HB2	1:a:55:PRO:HD3	1.38	1.03
1:I:1:MET:HE3	1:I:47:PRO:HB3	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:S:132:LYS:NZ	1:S:152:ILE:HD12	1.72	1.03
1:U:381:PRO:HA	1:U:405:THR:HG22	1.41	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:c:113:GLN:HG2	1:c:150:THR:HB	1.38	1.03
1:h:116:LEU:HB3	1:h:117:PRO:HD2	1.38	1.03
1:B:221:LEU:HD22	1:B:256:THR:HB	1.40	1.03
1:E:653:ALA:CB	1:F:662:ILE:HD11	1.87	1.03
1:I:330:GLN:HG3	1:I:379:ALA:HB3	1.05	1.03
1:M:1:MET:HE3	1:M:47:PRO:HB3	1.38	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:g:327:SER:HB2	1:g:331:GLY:HA3	1.37	1.03
1:K:419:LEU:HG	1:K:420:PRO:HD2	1.36	1.03
1:Y:653:ALA:CB	1:Z:662:ILE:CD1	2.35	1.03
1:d:777:LEU:HD11	1:e:783:LYS:HB2	1.37	1.03
1:e:73:VAL:H	1:e:84:ARG:HB2	1.17	1.03
1:D:1:MET:HE3	1:D:47:PRO:HB3	1.36	1.02
1:L:1:MET:HE3	1:L:47:PRO:HB3	1.36	1.02
1:S:394:LYS:HG2	1:T:329:GLN:HG3	1.34	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:327:SER:HB2	1:b:331:GLY:CA	1.88	1.02
1:g:327:SER:HB2	1:g:331:GLY:CA	1.89	1.02
1:h:54:PRO:HB2	1:h:55:PRO:HD3	1.38	1.02
1:H:381:PRO:HA	1:H:405:THR:HG22	1.40	1.02
1:Y:54:PRO:HB2	1:Y:55:PRO:CD	1.90	1.02
1:b:394:LYS:HG2	1:c:329:GLN:HG3	1.39	1.02
1:f:18:VAL:HG13	1:f:48:VAL:HG22	1.36	1.02
1:C:481:VAL:HG11	1:C:487:VAL:HG13	1.42	1.02
1:N:381:PRO:HA	1:N:405:THR:HG22	1.37	1.02
1:T:1:MET:HE3	1:T:47:PRO:HB3	1.41	1.02
1:V:116:LEU:HB3	1:V:117:PRO:HD2	1.38	1.02
1:f:459:SER:HB3	1:f:488:THR:HG22	1.37	1.02
1:P:73:VAL:H	1:P:84:ARG:HB2	1.24	1.02
1:P:381:PRO:CA	1:P:405:THR:HG22	1.90	1.02
1:Q:164:GLN:CD	1:Q:204:TYR:HB3	1.83	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:132:LYS:HZ1	1:d:152:ILE:HD12	1.24	1.02
1:h:745:LYS:HG3	1:i:753:ILE:HD11	1.34	1.02
1:B:653:ALA:HB1	1:C:662:ILE:HD11	1.05	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:P:283:VAL:HG22	1:P:301:VAL:HG12	1.40	1.02
1:R:36:ILE:HD12	1:R:98:PRO:HB3	1.03	1.02
1:d:132:LYS:NZ	1:d:152:ILE:HD12	1.75	1.02
1:E:109:ILE:HD12	1:E:153:PRO:HB2	1.41	1.01
1:F:601:MET:HG2	1:F:622:ALA:HB2	1.42	1.01
1:Q:36:ILE:O	1:Q:36:ILE:HD13	1.58	1.01
1:U:54:PRO:HB2	1:U:55:PRO:HD3	1.40	1.01
1:X:1:MET:HE3	1:X:47:PRO:HB3	1.39	1.01
1:Z:54:PRO:HB2	1:Z:55:PRO:HD3	1.41	1.01
1:i:330:GLN:HG3	1:i:379:ALA:CB	1.89	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: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:S:18:VAL:HG13	1:S:48:VAL:HG22	1.43	1.01
1:c:381:PRO:HA	1:c:405:THR:HG22	1.41	1.01
1:F:327:SER:HB2	1:F:331:GLY:CA	1.90	1.01
1:K:653:ALA:HB1	1:L:662:ILE:CD1	1.90	1.01
1:N:1:MET:HE3	1:N:47:PRO:HB3	1.39	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:h:130:GLU:H	1:h:137:VAL:HG12	1.23	1.01
1:A:328:GLU:OE1	1:A:362:PRO:HA	1.60	1.01
1:U:9:ARG:HH12	1:U:36:ILE:HA	1.24	1.01
1:V:54:PRO:HB2	1:V:55:PRO:HD3	1.38	1.01
1:b:1:MET:HE3	1:b:47:PRO:HB3	1.42	1.01
1:g:73:VAL:H	1:g:84:ARG:HB2	1.25	1.01
1:g:579:VAL:HG13	1:g:599:ILE:HD12	1.43	1.01
1:B:167:VAL:HB	1:B:201:VAL:O	1.61	1.01
1:D:327:SER:HB2	1:D:331:GLY:CA	1.90	1.01
1:P:328:GLU:HA	1:P:328:GLU:OE1	1.60	1.01
1:i:771:ILE:HD13	1:i:774:ARG:HH12	1.23	1.01
1:m:273:ILE:HD13	1:m:316:LEU:HD21	1.36	1.01
1:B:1:MET:HE3	1:B:47:PRO:HB3	1.36	1.00
1:I:327:SER:HB2	1:I:331:GLY:CA	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:16:ILE:HD12	1:Q:53:VAL:HG21	1.39	1.00
1:a:18:VAL:HG13	1:a:48:VAL:HG22	1.42	1.00
1:h:653:ALA:HB1	1:i:662:ILE:HD11	1.43	1.00
1:I:3:THR:HG22	1:I:50:MET:HE1	1.43	1.00
1:Q:18:VAL:HG13	1:Q:48:VAL:HG22	1.41	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:V:394:LYS:HG2	1:W:329:GLN:HG3	1.44	1.00
1:M:327:SER:HB2	1:M:331:GLY:CA	1.90	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
1:Z:326:LEU:HD21	1:Z:333:LEU:HG	1.42	1.00
1:g:1:MET:HE3	1:g:47:PRO:HB3	1.42	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:f:766:ARG:HD3	1:g:772:TYR:HB2	1.44	1.00
1:R:109:ILE:HD12	1:R:153:PRO:CG	1.91	1.00
1:j:326:LEU:HD21	1:j:333:LEU:HG	1.43	1.00
1:G:18:VAL:HG13	1:G:48:VAL:HG22	1.43	1.00
1:S:132:LYS:NZ	1:S:152:ILE:CD1	2.25	1.00
1:Q:332:LEU:HD21	1:Q:407:MET:HB2	1.44	1.00
1:f:109:ILE:HD12	1:f:153:PRO:HG2	1.42	1.00
1:k:18:VAL:HG13	1:k:48:VAL:HG22	1.44	1.00
1:l:36:ILE:HD12	1:l:98:PRO:HB3	1.41	1.00
1:R:109:ILE:CD1	1:R:153:PRO:HG2	1.92	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:h:328:GLU:OE1	1:h:362:PRO:HA	1.61	0.99
1:i:18:VAL:HG13	1:i:48:VAL:HG22	1.42	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:f:653:ALA:CB	1:g:662:ILE:CD1	2.40	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	1.28	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	1.26	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:381:PRO:HA	1:f:405:THR:CG2	1.92	0.99
1:j:311:GLN:HB3	1:j:312:PRO:HD2	1.41	0.99
1:L:115:VAL:O	1:L:118:ASN:HB3	1.62	0.99
1:M:328:GLU:OE1	1:M:362:PRO:HA	1.62	0.99
1:f:381:PRO:CA	1:f:405:THR:HG22	1.92	0.99
1:m:481:VAL:HG11	1:m:487:VAL:HG13	1.44	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:X:273:ILE:HD13	1:X:316:LEU:HD11	1.45	0.98
1:l:167:VAL:HB	1:l:201:VAL:O	1.64	0.98
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:I:18:VAL:HG13	1:I:48:VAL:HG22	1.44	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:72:SER:HB3	1:a:84:ARG:HH21	1.28	0.98
1:d:380:ILE:HD12	1:d:388:ILE:HD13	1.42	0.98
1:B:394:LYS:HG2	1:C:329:GLN:HG3	1.40	0.98
1:f:116:LEU:HB3	1:f:117:PRO:HD2	1.42	0.98
1:B:459:SER:HB3	1:B:488:THR:HG22	1.45	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:N:338:GLN:HB2	1:N:339:PRO:HD3	1.45	0.98
1:m:54:PRO:HB2	1:m:55: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:M:408:LEU:HD21	1:M:414:LEU:HD12	1.46	0.98
1:e:419:LEU:HG	1:e:420:PRO:CD	1.93	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: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:d:394:LYS:HG2	1:e:329:GLN:HG3	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:120:ALA:HB2	1:a:164:GLN:HE22	1.26	0.97
1:f:1:MET:HE3	1:f:47:PRO:HB3	1.45	0.97
1:C:527:ILE:HD11	1:C:539:LEU:HG	1.43	0.97
1:W:327:SER:HB2	1:W:331:GLY:CA	1.94	0.97
1:g:459:SER:HB3	1:g:488:THR:HG22	1.46	0.97
1:h:176:LEU:HD13	1:h:209:PHE:HD1	1.23	0.97
1:k:175:ARG:HE	1:k:263:VAL:HG22	1.28	0.97
1:X:327:SER:HB2	1:X:331:GLY:HA3	1.46	0.97
1:d:9:ARG:HH12	1:d:36:ILE:HA	1.29	0.97
1:e:380:ILE:HD12	1:e:388:ILE:HD13	1.45	0.97
1:A:653:ALA:HB3	1:B:662:ILE:HD11	1.42	0.97
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:F:18:VAL:HG13	1:F:48:VAL:HG22	1.44	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:H:653:ALA:CB	1:I:662:ILE:HD11	1.94	0.97
1:Y:653:ALA:HB1	1:Z:662:ILE:HD11	1.44	0.97
1:g:394:LYS:HG2	1:h:329:GLN:HG3	1.42	0.97
1:k:273:ILE:HD13	1:k:316:LEU:HD11	1.46	0.97
1:E:109:ILE:HD12	1:E:153:PRO:CB	1.94	0.97
1:M:653:ALA:HB1	1:N:662:ILE:HD11	1.41	0.97
1:l:109:ILE:HD12	1:l:153:PRO:CB	1.95	0.97
1:m:381:PRO:HA	1:m:405:THR:HG22	1.45	0.97
1:L:338:GLN:HB2	1:L:339:PRO:HD3	1.45	0.97
1:Z:1:MET:HE3	1:Z:47:PRO:HB3	1.45	0.97
1:i:653:ALA:HB1	1:j:662:ILE:HD11	0.97	0.97
1:j:332:LEU:HB2	1:j:377:ARG:HB3	1.47	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:9:ARG:HH12	1:L:36:ILE:HA	1.30	0.97
1:L:543:TYR:CE2	1:L:575:ILE:HG21	2.00	0.97
1:G:327:SER:HB2	1:G:331:GLY:HA3	1.45	0.97
1:M:474:ARG:HG3	1:M:492:GLU:HB2	1.47	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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	1.43	0.96
1:j:260:VAL:HB	1:j:263:VAL:HA	1.45	0.96
1:j:587:THR:HG23	1:j:590:ASP:HB3	1.46	0.96
1:I:116:LEU:HB3	1:I:117:PRO:HD2	1.46	0.96
1:b:476:LYS:HE2	1:c:485:GLU:HG3	1.45	0.96
1:f:394:LYS:HG2	1:g:329:GLN:HG3	1.46	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:E:653:ALA:HB1	1:F:662:ILE:HD11	1.48	0.96
1:Z:176:LEU:HB2	1:Z:196:TRP:HB2	1.47	0.96
1:h:1:MET:HE3	1:h:47:PRO:HB3	1.44	0.96
1:k:326:LEU:HD21	1:k:333:LEU:HG	1.47	0.96
1:B:18:VAL:HG13	1:B:48:VAL:HG22	1.46	0.96
1:C:14:HIS:HB3	1:C:56:ARG:HB2	1.44	0.96
1:M:18:VAL:HG13	1:M:48:VAL:HG22	1.44	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:b:287:PRO:HA	1:b:314:GLU:OE2	1.66	0.96
1:f:182:CYS:O	1:f:190:ARG:HB2	1.64	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:O:653:ALA:CB	1:P:662:ILE:HD11	1.95	0.96
1:P:185:ARG:HH22	1:P:207:ALA:HB3	1.27	0.96
1:R:1:MET:HE3	1:R:47:PRO:HB3	1.48	0.96
1:W:653:ALA:CB	1:X:662:ILE:CD1	2.43	0.96
1:e:1:MET:HE3	1:e:47:PRO:HB3	1.44	0.96
1:B:653:ALA:HB1	1:C:662:ILE:CD1	1.93	0.96
1:V:419:LEU:HG	1:V:420:PRO:HD2	1.46	0.96
1:e:54:PRO:HB2	1:e:55:PRO:HD3	1.47	0.96
1:l:176:LEU:HD13	1:l:209:PHE:HD1	1.27	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:i:419:LEU:HG	1:i:420:PRO:HD2	1.46	0.96
1:A:132:LYS:HZ1	1:A:152:ILE:HD12	1.29	0.96
1:H:109:ILE:HD12	1:H:153:PRO:HB2	1.48	0.96
1:g:115:VAL:H	1:g:118:ASN:HD22	1.03	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:220:ILE:HD11	1:Y:257:GLU:H	1.28	0.95
1:g:777:LEU:HD11	1:h:783:LYS:HB2	1.48	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: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:H:745:LYS:HG3	1:I:753:ILE:CD1	1.96	0.95
1:I:36:ILE:HD13	1:I:36:ILE:O	1.66	0.95
1:Q:9:ARG:HH12	1:Q:36:ILE:HA	1.29	0.95
1:W:1:MET:HE3	1:W:47:PRO:HB3	1.47	0.95
1:g:109:ILE:HD12	1:g:153:PRO:CB	1.96	0.95
1:i:132:LYS:HZ1	1:i:152:ILE:HD12	1.17	0.95
1:m:419:LEU:HG	1:m:420:PRO:CD	1.96	0.95
1:D:328:GLU:HA	1:D:328:GLU:OE1	1.63	0.95
1:W:116:LEU:HB3	1:W:117:PRO:HD2	1.48	0.95
1:d:653:ALA:CB	1:e:662:ILE:CD1	2.44	0.95
1:h:18:VAL:HG13	1:h:48:VAL:HG22	1.45	0.95
1:B:120:ALA:HB3	1:B:162:ILE:HG13	1.47	0.95
1:D:129:PHE:O	1:D:137:VAL:HB	1.65	0.95
1:b:326:LEU:HD21	1:b:333:LEU:HG	1.47	0.95
1:j:394:LYS:HG2	1:k:329:GLN:HG3	1.46	0.95
1:l:9:ARG:HH12	1:l:36:ILE:HA	1.29	0.95
1:F:1:MET:HE3	1:F:47:PRO:HB3	1.48	0.95
1:I:459:SER:HB3	1:I:488:THR:HG22	1.48	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:j:132:LYS:HZ2	1:j:152:ILE:HD12	1.32	0.95
1:D:77:ILE:HG13	1:D:80:GLN:N	1.81	0.95
1:J:381:PRO:HA	1:J:405:THR:HG22	1.47	0.95
1:Z:601:MET:HG2	1:Z:622:ALA:HB2	1.47	0.95
1:i:1:MET:HE3	1:i:47:PRO:HB3	1.47	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:c:18:VAL:HG13	1:c:48:VAL:HG22	1.45	0.95
1:d:419:LEU:HG	1:d:420:PRO:HD2	1.46	0.95
1:g:381:PRO:HA	1:g:405:THR:CG2	1.97	0.95
1:j:745:LYS:HG3	1:k:753:ILE:HD13	1.47	0.95
1:N:287:PRO:HA	1:N:314:GLU:OE2	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:f:653:ALA:HB1	1:g:662:ILE:CD1	1.96	0.95
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:b:176:LEU:HD13	1:b:209:PHE:CD1	2.02	0.94
1:c:653:ALA:HB1	1:d:662:ILE:HD11	0.95	0.94
1:V:123:LEU:HG	1:V:143:TRP:HB2	1.49	0.94
1:a:337:LEU:HD22	1:a:357:TRP:HZ3	1.29	0.94
1:C:330:GLN:HB3	1:C:379:ALA:HB3	1.47	0.94
1:S:14:HIS:HB3	1:S:56:ARG:HB2	1.45	0.94
1:a:328:GLU:OE1	1:a:362:PRO:HA	1.66	0.94
1:c:580:ARG:HH22	1:d:595:SER:HB2	1.31	0.94
1:d:221:LEU:HD22	1:d:256:THR:HG21	1.49	0.94
1:g:18:VAL:H	1:g:48:VAL:HG13	1.32	0.94
1:g:67:ARG:HH21	1:g:107:LYS:HA	1.32	0.94
1:A:18:VAL:HG13	1:A:48:VAL:HG22	1.49	0.94
1:M:419:LEU:HG	1:M:420:PRO:CD	1.97	0.94
1:X:116:LEU:HB3	1:X:117:PRO:HD2	1.47	0.94
1:i:771:ILE:HD13	1:i:774:ARG:NH1	1.80	0.94
1:A:9:ARG:HH12	1:A:36:ILE:HA	1.31	0.94
1:K:116:LEU:HB3	1:K:117:PRO:HD2	1.48	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:l:1:MET:CE	1:l:47:PRO:HB3	1.97	0.94
1:l:175:ARG:HE	1:l:263:VAL:HG22	1.33	0.94
1:l:287:PRO:HA	1:l:314:GLU:OE2	1.66	0.94
1:m:116:LEU:HB3	1:m:117:PRO:CD	1.96	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:D:70:GLN:HB3	1:D:104:VAL:O	1.67	0.94
1:F:116:LEU:HB3	1:F:117:PRO:HD2	1.47	0.94
1:F:182:CYS:O	1:F:190:ARG:HB2	1.68	0.94
1:I:227:LEU:HB2	1:I:251:VAL:HG12	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:c:1:MET:CE	1:c:47:PRO:HB3	1.96	0.94
1:j:328:GLU:OE1	1:j:362:PRO:HA	1.66	0.94
1:L:18:VAL:HG13	1:L:48:VAL:HG22	1.46	0.94
1:O:130:GLU:HA	1:O:137:VAL:H	1.31	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
1:f:332:LEU:HD21	1:f:407:MET:CB	1.96	0.94
1:i:14:HIS:NE2	1:i:16:ILE:HD11	1.82	0.94
1:k:54:PRO:HB2	1:k:55:PRO:HD3	1.50	0.94
1:l:332:LEU:HD21	1:l:407:MET:HB2	1.49	0.94
1:B:176:LEU:HD13	1:B:209:PHE:CD1	2.01	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:I:176:LEU:HD13	1:I:209:PHE:HD1	1.32	0.94
1:L:109:ILE:HD12	1:L:153:PRO:CB	1.97	0.94
1:S:151:TYR:CD2	1:S:152:ILE:HD13	2.02	0.94
1:j:1:MET:HE3	1:j:47:PRO:HB3	1.50	0.94
1:Q:381:PRO:CA	1:Q:405:THR:HG22	1.97	0.94
1:d:381:PRO:HA	1:d:405:THR:HG22	1.48	0.94
1:h:408:LEU:HD21	1:h:414:LEU:HD12	1.49	0.94
1:i:54:PRO:HB2	1:i:55:PRO:HD3	1.49	0.94
1:i:115:VAL:H	1:i:118:ASN:HD22	0.94	0.94
1:C:459:SER:HB3	1:C:488:THR:HG22	1.46	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:h:115:VAL:H	1:h:118:ASN:HD22	1.02	0.93
1:C:9:ARG:HH12	1:C:36:ILE:HA	1.31	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:745:LYS:HG3	1:f:753:ILE:HD11	1.46	0.93
1:j:745:LYS:HG3	1:k:753:ILE:HD11	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:653:ALA:CB	1:V:662:ILE:CD1	2.46	0.93
1:e:394:LYS:HG2	1:f:329:GLN:HG3	1.48	0.93
1:C:273:ILE:HD13	1:C:316:LEU:HD11	1.49	0.93
1:H:174:LEU:HB2	1:H:198:VAL:HB	1.48	0.93
1:K:1:MET:HE3	1:K:47:PRO:HB3	1.49	0.93
1:T:755:THR:HG21	1:U:761:ARG:HG2	1.47	0.93
1:d:18:VAL:HG13	1:d:48:VAL:HG22	1.48	0.93
1:C:18:VAL:HG13	1:C:48:VAL:HG22	1.48	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:h:273:ILE:HG13	1:h:308:PHE:HB3	1.51	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:73:VAL:H	1:a:84:ARG:HB2	1.32	0.93
1:b:653:ALA:HB1	1:c:662:ILE:HD11	0.96	0.93
1:A:132:LYS:NZ	1:A:152:ILE:HD12	1.83	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
1:e:115:VAL:O	1:e:118:ASN:HB3	1.68	0.93
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:B:653:ALA:CB	1:C:662:ILE:CD1	2.46	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:85:HIS:NE2	1:c:102:GLY:HA3	1.83	0.93
1:e:260:VAL:HA	1:e:264:TYR:H	1.33	0.93
1:h:109:ILE:HD12	1:h:153:PRO:CB	1.99	0.93
1:C:708:GLU:HG2	1:D:716:VAL:HG11	1.49	0.92
1:H:9:ARG:HH12	1:H:36:ILE:HA	1.32	0.92
1:L:287:PRO:HA	1:L:314:GLU:OE2	1.67	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:e:176:LEU:HD13	1:e:209:PHE:CD1	2.05	0.92
1:G:653:ALA:HB1	1:H:662:ILE:HD11	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:481:VAL:HG11	1:T:487:VAL:HG13	1.51	0.92
1:g:19:LEU:HD23	1:g:32:PRO:HB2	1.49	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:g:332:LEU:HD21	1:g:407:MET:CB	1.98	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:a:1:MET:CE	1:a:47:PRO:HB3	1.99	0.92
1:l:332:LEU:HD21	1:l:407:MET:CB	2.00	0.92
1:E:227:LEU:HB2	1:E:251:VAL:HG12	1.48	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:l:115:VAL:H	1:l:118:ASN:HD22	0.97	0.92
1:m:472:ASP:HA	1:m:493:GLU:HB3	1.51	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:180:LYS:C	1:a:182:CYS:H	1.75	0.92
1:A:18:VAL:H	1:A:48:VAL:HG13	1.34	0.92
1:F:54:PRO:HB2	1:F:55:PRO:CD	1.99	0.92
1:J:18:VAL:HG13	1:J:48:VAL:HG22	1.48	0.92
1:J:130:GLU:HB2	1:J:136:LYS:HA	1.52	0.92
1:U:1:MET:CE	1:U:47:PRO:HB3	1.99	0.92
1:Y:796:LYS:HA	1:Y:799:THR:HG22	1.49	0.92
1:c:394:LYS:HG2	1:d:329:GLN:HG3	1.50	0.92
1:h:281:TYR:CE1	1:h:321:GLN:HB2	2.04	0.92
1:Q:287:PRO:HA	1:Q:314:GLU:OE2	1.70	0.92
1:d:109:ILE:HD12	1:d:153:PRO:HG2	1.51	0.92
1:f:338:GLN:HB2	1:f:339:PRO:HD3	1.52	0.92
1:E:176:LEU:HD13	1:E:209:PHE:HD1	1.32	0.92
1:V:527:ILE:H	1:V:527:ILE:HD13	1.34	0.92
1:b:327:SER:CB	1:b:331:GLY:HA3	1.99	0.92
1:g:381:PRO:CA	1:g:405:THR:HG22	1.98	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:60:ILE:HD13	1:a:93:ALA:HA	1.52	0.92
1:c:116:LEU:HB3	1:c:117:PRO:CD	2.00	0.92
1:E:771:ILE:HD13	1:E:774:ARG:HH11	1.32	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:Z:394:LYS:HG2	1:a:329:GLN:HG3	1.52	0.91
1:d:539:LEU:HD22	1:d:643:VAL:HG22	1.52	0.91
1:f:785:GLN:HA	1:g:790:VAL:HG21	1.49	0.91
1:C:419:LEU:HG	1:C:420:PRO:HD2	1.50	0.91
1:E:1:MET:HE3	1:E:47:PRO:HB3	1.50	0.91
1:W:182:CYS:O	1:W:190:ARG:HB2	1.70	0.91
1:h:481:VAL:HG11	1:h:487:VAL:HG13	1.51	0.91
1:j:338:GLN:HB2	1:j:339:PRO:HD3	1.51	0.91
1:l:121:LEU:HB2	1:l:145:PHE:HB3	1.52	0.91
1:m:90:ILE:HD13	1:m:90:ILE:N	1.84	0.91
1:B:332:LEU:HD21	1:B:407:MET:HB2	1.51	0.91
1:E:70:GLN:HB3	1:E:104:VAL:H	1.33	0.91
1:E:115:VAL:H	1:E:118:ASN:HD22	1.18	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:f:332:LEU:HD21	1:f:407:MET:HB2	1.51	0.91
1:k:116:LEU:HB3	1:k:117:PRO:CD	2.00	0.91
1:M:653:ALA:CB	1:N:662:ILE:HD11	1.99	0.91
1:Q:1:MET:HE3	1:Q:47:PRO:HB3	1.52	0.91
1:Q:387:GLY:HA3	1:Q:402:ILE:HG22	1.52	0.91
1:b:73:VAL:H	1:b:84:ARG:HB2	1.34	0.91
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:a:419:LEU:HD23	1:a:421:SER:H	1.35	0.91
1:b:54:PRO:HB2	1:b:55:PRO:HD3	1.50	0.91
1:m:287:PRO:HA	1:m:314:GLU:OE2	1.69	0.91
1:D:18:VAL:HG13	1:D:48:VAL:HG22	1.51	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:19:LEU:HD23	1:K:32:PRO:HB2	1.51	0.91
1:K:109:ILE:CD1	1:K:153:PRO:HB2	2.01	0.91
1:N:130:GLU:HB2	1:N:136:LYS:HA	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:m:330:GLN:HB3	1:m:379:ALA:HB3	1.53	0.91
1:B:24:ASN:HD22	1:B:30:VAL:HB	1.34	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:e:77:ILE:HG13	1:e:79:GLY:H	1.36	0.91
1:h:327:SER:HB2	1:h:331:GLY:HA3	1.50	0.91
1:B:11:PRO:HA	1:B:38:GLN:HA	1.52	0.91
1:Y:419:LEU:HG	1:Y:420:PRO:HD2	1.52	0.91
1:f:77:ILE:HG13	1:f:79:GLY:H	1.34	0.91
1:h:653:ALA:CB	1:i:662:ILE:HD11	2.00	0.91
1:l:260:VAL:HB	1:l:263:VAL:HA	1.51	0.91
1:A:239:ARG:HH21	1:A:257:GLU:HG2	1.36	0.91
1:C:381:PRO:HA	1:C:405:THR:CG2	2.01	0.91
1:G:19:LEU:HD23	1:G:32:PRO:HB2	1.52	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:b:771:ILE:HD13	1:b:774:ARG:NH1	1.85	0.91
1:f:176:LEU:HD13	1:f:209:PHE:CD1	2.06	0.91
1:D:355:ASP:HA	1:E:328:GLU:HB2	1.52	0.91
1:F:381:PRO:HA	1:F:405:THR:HG22	1.53	0.91
1:e:539:LEU:HD22	1:e:643:VAL:HG22	1.51	0.91
1:h:18:VAL:H	1:h:48:VAL:HG13	1.34	0.91
1:l:109:ILE:HD12	1:l:153:PRO:HB2	1.50	0.91
1:B:332:LEU:HD21	1:B:407:MET:CB	2.01	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:NE2	1:L:384:GLN:H	1.69	0.90
1:a:653:ALA:CB	1:b:662:ILE:HD11	2.01	0.90
1:d:330:GLN:HB3	1:d:379:ALA:HB3	1.52	0.90
1:A:116:LEU:HB3	1:A:117:PRO:CD	2.02	0.90
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:260:VAL:HA	1:Y:264:TYR:H	1.35	0.90
1:m:116:LEU:HB3	1:m:117:PRO:HD2	1.52	0.90
1:D:601:MET:HG2	1:D:622:ALA:HB2	1.52	0.90
1:I:36:ILE:CD1	1:I:98:PRO:HB3	2.02	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:g:132:LYS:HZ2	1:g:152:ILE:HD11	1.36	0.90
1:g:328:GLU:HA	1:g:328:GLU:OE1	1.70	0.90
1:m:18:VAL:H	1:m:48:VAL:HG13	1.35	0.90
1:A:1:MET:HE3	1:A:47:PRO:HB3	1.53	0.90
1:F:176:LEU:HD13	1:F:209:PHE:HD1	1.34	0.90
1:M:54:PRO:HB2	1:M:55:PRO:HD3	1.53	0.90
1:M:311:GLN:HB3	1:M:312:PRO:HD2	1.54	0.90
1:G:327:SER:HB2	1:G:331:GLY:CA	2.02	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:g:116:LEU:HB3	1:g:117:PRO:CD	2.00	0.90
1:j:175:ARG:HE	1:j:263:VAL:HG22	1.36	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:P:1:MET:HE3	1:P:47:PRO:HB3	1.53	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:a:459:SER:HB3	1:a:488:THR:HG22	1.51	0.90
1:I:771:ILE:HD13	1:I:774:ARG:NH1	1.85	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:c:5:GLU:HG2	1:c:43:VAL:HG21	1.53	0.90
1:h:815:PRO:C	1:h:816:GLU:CA	2.45	0.90
1:A:332:LEU:HD21	1:A:407:MET:HB2	1.54	0.90
1:R:511:ARG:HH22	1:R:517:LEU:HD11	1.35	0.90
1:S:653:ALA:CB	1:T:662:ILE:CD1	2.45	0.90
1:T:116:LEU:HB3	1:T:117:PRO:CD	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:132:LYS:NZ	1:g:152:ILE:HD12	1.85	0.90
1:J:1:MET:HE3	1:J:47:PRO:HB3	1.52	0.90
1:V:815:PRO:C	1:V:816:GLU:CA	2.45	0.90
1:X:1:MET:CE	1:X:47:PRO:HB3	2.02	0.90
1:a:176:LEU:HD13	1:a:209:PHE:CD1	2.07	0.90
1:a:260:VAL:HB	1:a:263:VAL:HA	1.52	0.90
1:a:327:SER:HB2	1:a:331:GLY:HA3	1.53	0.90
1:f:54:PRO:HB2	1:f:55:PRO:CD	2.02	0.90
1:j:132:LYS:HZ1	1:j:152:ILE:HD12	1.08	0.90
1:k:1:MET:HE3	1:k:47:PRO:HB3	1.53	0.90
1:k:10:ILE:H	1:k:10:ILE:HD12	1.36	0.90
1:I:653:ALA:CB	1:J:662:ILE:CD1	2.49	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:b:601:MET:HG2	1:b:622:ALA:HB2	1.54	0.90
1:c:9:ARG:HH12	1:c:36:ILE:HA	1.37	0.90
1:h:9:ARG:HH12	1:h:36:ILE:HA	1.37	0.90
1:j:116:LEU:HB3	1:j:117:PRO:CD	2.01	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:C:176:LEU:HD13	1:C:209:PHE:HD1	1.36	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:k:394:LYS:HG2	1:l:329:GLN:HG3	1.53	0.89
1:l:330:GLN:HB3	1:l:379:ALA:HB3	1.54	0.89
1:D:527:ILE:HD13	1:D:529:ILE:HG23	1.53	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:g:1:MET:CE	1:g:47:PRO:HB3	2.01	0.89
1:i:204:TYR:O	1:i:206:PRO:HD3	1.70	0.89
1:j:18:VAL:HG13	1:j:48:VAL:HG22	1.55	0.89
1:m:221:LEU:HD21	1:m:256:THR:HG21	1.54	0.89
1:E:109:ILE:CD1	1:E:153:PRO:HB2	2.02	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:a:327:SER:HB2	1:a:331:GLY:CA	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:785:GLN:HA	1:j:790:VAL:HG21	1.52	0.89
1:k:221:LEU:HD22	1:k:256:THR:HB	1.52	0.89
1:l:815:PRO:C	1:l:816:GLU:CA	2.45	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:Q:653:ALA:CB	1:R:662:ILE:HD11	2.01	0.89
1:R:284:ILE:HD13	1:R:284:ILE:H	1.36	0.89
1:I:543:TYR:CE2	1:I:575:ILE:HG21	2.07	0.89
1:K:9:ARG:HH12	1:K:36:ILE:HA	1.35	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:e:176:LEU:HD13	1:e:209:PHE:HD1	1.34	0.89
1:h:335:LYS:HD3	1:h:359:ILE:HD11	1.54	0.89
1:m:815:PRO:C	1:m:816:GLU:CA	2.46	0.89
1:G:116:LEU:HB3	1:G:117:PRO:HD2	1.53	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:c:84:ARG:HH22	1:c:101:PRO:HD2	1.37	0.89
1:c:332:LEU:HD21	1:c:407:MET:CB	2.03	0.89
1:c:785:GLN:HA	1:d:790:VAL:HG21	1.53	0.89
1:e:14:HIS:HB3	1:e:56:ARG:CB	2.02	0.89
1:f:18:VAL:H	1:f:48:VAL:HG13	1.38	0.89
1:g:332:LEU:HD21	1:g:407:MET:HB2	1.52	0.89
1:g:332:LEU:HB2	1:g:377:ARG:HB3	1.53	0.89
1:i:176:LEU:HD13	1:i:209:PHE:CD1	2.05	0.89
1:C:115:VAL:H	1:C:118:ASN:ND2	1.71	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:b:523:PHE:CE1	1:b:568:VAL:HG12	2.07	0.89
1:e:381:PRO:HA	1:e:405:THR:CG2	2.03	0.89
1:f:185:ARG:HG3	1:f:206:PRO:HB3	1.53	0.89
1:F:459:SER:HB3	1:F:488:THR:HG22	1.54	0.89
1:K:815:PRO:C	1:K:816:GLU:CA	2.46	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:Y:815:PRO:C	1:Y:816:GLU:CA	2.46	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:287:PRO:HA	1:f:314:GLU:OE2	1.73	0.89
1:F:815:PRO:C	1:F:816:GLU:CA	2.46	0.89
1:G:116:LEU:HB3	1:G:117:PRO:CD	2.02	0.89
1:J:815:PRO:C	1:J:816:GLU:CA	2.46	0.89
1:N:815:PRO:C	1:N:816:GLU:CA	2.46	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:W:815:PRO:C	1:W:816:GLU:CA	2.46	0.89
1:i:332:LEU:HD21	1:i:407:MET:CB	2.02	0.89
1:G:653:ALA:CB	1:H:662:ILE:HD11	2.03	0.88
1:H:815:PRO:C	1:H:816:GLU:CA	2.46	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:N:18:VAL:H	1:N:48:VAL:HG13	1.38	0.88
1:N:152:ILE:H	1:N:152:ILE:HD13	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:k:327:SER:HB2	1:k:331:GLY:CA	2.02	0.88
1:l:10:ILE:H	1:l:10:ILE:HD12	1.38	0.88
1:G:474:ARG:HG3	1:G:492:GLU:HB2	1.55	0.88
1:I:815:PRO:C	1:I:816:GLU:CA	2.46	0.88
1:V:116:LEU:HB3	1:V:117:PRO:CD	2.04	0.88
1:a:311:GLN:HB3	1:a:312:PRO:HD2	1.55	0.88
1:b:90:ILE:HD13	1:b:90:ILE:N	1.88	0.88
1:j:419:LEU:HG	1:j:420:PRO:HD2	1.55	0.88
1:k:132:LYS:NZ	1:k:152:ILE:CD1	2.35	0.88
1:k:815:PRO:C	1:k:816:GLU:CA	2.46	0.88
1:l:394:LYS:HG2	1:m:329:GLN:HG3	1.53	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:F:332:LEU:HD21	1:F:407:MET:CB	2.03	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
1:T:815:PRO:C	1:T:816:GLU:CA	2.46	0.88
1:g:760:GLU:HA	1:g:760:GLU:OE1	1.73	0.88
1:j:5:GLU:HG2	1:j:43:VAL:HG21	1.55	0.88
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:J:311:GLN:HB3	1:J:312:PRO:HD2	1.55	0.88
1:L:771:ILE:HD13	1:L:774:ARG:NH1	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:221:LEU:HD22	1:N:256:THR:CG2	2.03	0.88
1:P:815:PRO:C	1:P:816:GLU:CA	2.46	0.88
1:Q:54:PRO:HB2	1:Q:55:PRO:HD3	1.56	0.88
1:Q:511:ARG:HH22	1:Q:517:LEU:HD11	1.38	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:X:815:PRO:C	1:X:816:GLU:CA	2.47	0.88
1:b:815:PRO:C	1:b:816:GLU:CA	2.47	0.88
1:i:9:ARG:HH12	1:i:36:ILE:HA	1.37	0.88
1:k:113:GLN:OE1	1:k:149:GLY:HA2	1.73	0.88
1:l:54:PRO:HB2	1:l:55:PRO:CD	2.03	0.88
1:B:815:PRO:C	1:B:816:GLU:CA	2.47	0.88
1:X:381:PRO:HA	1:X:405:THR:HG22	1.55	0.88
1:b:653:ALA:HB3	1:c:662:ILE:HD13	1.53	0.88
1:l:130:GLU:HB2	1:l:136:LYS:HA	1.52	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:U:815:PRO:C	1:U:816:GLU:CA	2.47	0.88
1:X:176:LEU:HB2	1:X:196:TRP:HB2	1.56	0.88
1:Z:785:GLN:HA	1:a:790:VAL:HG21	1.55	0.88
1:a:18:VAL:H	1:a:48:VAL:HG13	1.37	0.88
1:i:19:LEU:HD23	1:i:32:PRO:HB2	1.55	0.88
1:k:19:LEU:HD23	1:k:32:PRO:HB2	1.53	0.88
1:A:273:ILE:HG21	1:A:316:LEU:HD11	1.56	0.88
1:A:815:PRO:C	1:A:816:GLU:CA	2.46	0.88
1:B:1:MET:CE	1:B:47:PRO:HB3	2.04	0.88
1:B:54:PRO:HB2	1:B:55:PRO:CD	2.04	0.88
1:I:199:ARG:HH21	1:I:258:ALA:HB3	1.39	0.88
1:J:288:MET:HE2	1:J:294:ASN:ND2	1.88	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:N:180:LYS:C	1:N:182:CYS:H	1.80	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:481:VAL:HG11	1:b:487:VAL:CG1	2.04	0.88
1:d:815:PRO:C	1:d:816:GLU:CA	2.47	0.88
1:g:115:VAL:N	1:g:118:ASN:HD22	1.71	0.88
1:h:327:SER:HB2	1:h:331:GLY:CA	2.04	0.88
1:h:459:SER:HB3	1:h:488:THR:HG22	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:745:LYS:HG3	1:j:753:ILE:HD13	1.55	0.88
1:i:815:PRO:C	1:i:816:GLU:CA	2.46	0.88
1:j:252:THR:H	1:j:254:GLN:HE21	1.22	0.88
1:C:121:LEU:HB2	1:C:145:PHE:HB3	1.53	0.88
1:D:815:PRO:C	1:D:816:GLU:CA	2.47	0.88
1:H:1:MET:CE	1:H:47:PRO:HB3	2.03	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
1:Q:653:ALA:CB	1:R:662:ILE:CD1	2.50	0.88
1:b:20:ASP:CB	1:b:49:ARG:HG3	2.04	0.88
1:d:14:HIS:HB3	1:d:56:ARG:HB2	1.56	0.88
1:f:517:LEU:HD12	1:f:517:LEU:H	1.36	0.88
1:f:815:PRO:C	1:f:816:GLU:CA	2.46	0.88
1:i:70:GLN:HB3	1:i:104:VAL:O	1.74	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:O:815:PRO:C	1:O:816:GLU:CA	2.47	0.88
1:R:459:SER:CB	1:R:488:THR:HG22	2.03	0.88
1:a:815:PRO:C	1:a:816:GLU:CA	2.47	0.88
1:c:24:ASN:HD22	1:c:30:VAL:HB	1.39	0.88
1:g:132:LYS:HZ2	1:g:152:ILE:CD1	1.86	0.88
1:D:18:VAL:H	1:D:48:VAL:HG13	1.36	0.88
1:J:121:LEU:HB2	1:J:145:PHE:HB3	1.55	0.88
1:J:130:GLU:H	1:J:137:VAL:CG1	1.87	0.88
1:K:543:TYR:CE2	1:K:575:ILE:HG21	2.08	0.88
1:L:326:LEU:HD21	1:L:333:LEU:HG	1.56	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:S:815:PRO:C	1:S:816:GLU:CA	2.47	0.88
1:b:419:LEU:HG	1:b:420:PRO:HD2	1.52	0.88
1:j:815:PRO:C	1:j:816:GLU:CA	2.47	0.88
1:A:419:LEU:HD23	1:A:421:SER:H	1.39	0.87
1:F:287:PRO:HA	1:F:314:GLU:OE2	1.74	0.87
1:H:745:LYS:HG3	1:I:753:ILE:HD11	1.54	0.87
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:175:ARG:HE	1:V:263:VAL:HG22	1.37	0.87
1:l:328:GLU:HA	1:l:328:GLU:OE1	1.71	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:G:815:PRO:C	1:G:816:GLU:CA	2.47	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:C:815:PRO:C	1:C:816:GLU:CA	2.47	0.87
1:G:176:LEU:HD13	1:G:209:PHE:CD1	2.05	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:d:73:VAL:H	1:d:84:ARG:HB2	1.40	0.87
1:d:338:GLN:HB2	1:d:339:PRO:HD3	1.53	0.87
1:e:182:CYS:O	1:e:190:ARG:HB2	1.74	0.87
1:i:286:ASP:HB3	1:i:296:LEU:HA	1.56	0.87
1:S:227:LEU:HB2	1:S:251:VAL:HG12	1.56	0.87
1:Z:328:GLU:HG3	1:Z:329:GLN:N	1.90	0.87
1:a:262:ASP:HB3	1:a:264:TYR:CE1	2.10	0.87
1:d:1:MET:CE	1:d:47:PRO:HB3	2.04	0.87
1:m:326:LEU:HD21	1:m:333:LEU:HG	1.54	0.87
1:B:777:LEU:HD11	1:C:783:LYS:HB2	1.54	0.87
1:E:815:PRO:C	1:E:816:GLU:CA	2.47	0.87
1:O:180:LYS:C	1:O:182:CYS:H	1.81	0.87
1:S:19:LEU:HD23	1:S:32:PRO:HB2	1.54	0.87
1:V:1:MET:HE3	1:V:47:PRO:HB3	1.55	0.87
1:W:653:ALA:HB3	1:X:662:ILE:CD1	2.05	0.87
1:d:476:LYS:HE2	1:e:485:GLU:HG3	1.57	0.87
1:A:329:GLN:HG3	1:m:394:LYS:HG2	1.54	0.87
1:F:338:GLN:HB2	1:F:339:PRO:HD3	1.53	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:b:653:ALA:CB	1:c:662:ILE:HD13	2.03	0.87
1:h:176:LEU:HD13	1:h:209:PHE:CD1	2.09	0.87
1:C:381:PRO:CA	1:C:405:THR:HG22	2.04	0.87
1:D:1:MET:CE	1:D:47:PRO:HB3	2.03	0.87
1:D:745:LYS:HG3	1:E:753:ILE:HD11	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:527:ILE:H	1:G:527:ILE:HD13	1.38	0.87
1:H:54:PRO:HB2	1:H:55:PRO:HD3	1.56	0.87
1:J:332:LEU:HD21	1:J:407:MET:CB	2.05	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:c:815:PRO:C	1:c:816:GLU:CA	2.47	0.87
1:d:260:VAL:HB	1:d:263:VAL:HA	1.57	0.87
1:i:18:VAL:H	1:i:48:VAL:HG13	1.38	0.87
1:k:14:HIS:CB	1:k:56:ARG:HB2	2.05	0.87
1:m:9:ARG:HH12	1:m:36:ILE:HA	1.36	0.87
1:m:85:HIS:NE2	1:m:102:GLY:HA3	1.90	0.87
1:F:18:VAL:H	1:F:48:VAL:HG13	1.39	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:j:8:ILE:H	1:j:8:ILE:HD13	1.40	0.87
1:l:539:LEU:HD22	1:l:643:VAL:HG22	1.54	0.87
1:L:1:MET:CE	1:L:47:PRO:HB3	2.05	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:d:771:ILE:HD13	1:d:774:ARG:NH1	1.88	0.87
1:g:408:LEU:HD21	1:g:414:LEU:HD12	1.55	0.87
1:h:109:ILE:HD12	1:h:153:PRO:HB2	1.56	0.87
1:j:73:VAL:H	1:j:84:ARG:HB2	1.38	0.87
1:k:28:VAL:HG12	1:k:30:VAL:HG23	1.56	0.87
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:b:571:ALA:O	1:b:575:ILE:HG12	1.75	0.86
1:e:815:PRO:C	1:e:816:GLU:CA	2.48	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:Y:184:ASP:HB2	1:Y:189:GLY:O	1.75	0.86
1:Z:476:LYS:HE2	1:a:485:GLU:HG3	1.53	0.86
1:e:109:ILE:HD12	1:e:153:PRO:CB	2.05	0.86
1:f:28:VAL:HG12	1:f:30:VAL:HG23	1.57	0.86
1:H:18:VAL:HG13	1:H:48:VAL:HG22	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:d:184:ASP:HB3	1:d:187:GLY:O	1.74	0.86
1:f:19:LEU:HA	1:f:32:PRO:HB3	1.54	0.86
1:f:653:ALA:HB3	1:g:662:ILE:CD1	2.05	0.86
1:C:73:VAL:H	1:C:84:ARG:HB2	1.40	0.86
1:L:381:PRO:HA	1:L:405:THR:CG2	2.04	0.86
1:M:815:PRO:C	1:M:816:GLU:CA	2.47	0.86
1:P:332:LEU:HB2	1:P:377:ARG:HB3	1.56	0.86
1:Q:815:PRO:C	1:Q:816:GLU:CA	2.48	0.86
1:T:543:TYR:CE2	1:T:575:ILE:HG21	2.10	0.86
1:a:260:VAL:HA	1:a:264:TYR:H	1.40	0.86
1:j:777:LEU:HD11	1:k:783:LYS:HB2	1.56	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: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:b:481:VAL:HG11	1:b:487:VAL:HG13	1.54	0.86
1:g:9:ARG:HH12	1:g:36:ILE:HA	1.39	0.86
1:h:109:ILE:CD1	1:h:153:PRO:HB2	2.06	0.86
1:m:70:GLN:HB3	1:m:104:VAL:H	1.40	0.86
1:A:287:PRO:HA	1:A:314:GLU:OE2	1.75	0.86
1:I:469:GLN:HB3	1:I:496:THR:HG21	1.56	0.86
1:K:653:ALA:CB	1:L:662:ILE:HD12	2.03	0.86
1:L:605:GLY:O	1:L:623:ARG:HB2	1.74	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:b:18:VAL:H	1:b:48:VAL:HG13	1.39	0.86
1:l:18:VAL:H	1:l:48:VAL:HG13	1.38	0.86
1:D:338:GLN:HB2	1:D:339:PRO:HD3	1.55	0.86
1:H:328:GLU:HG3	1:H:329:GLN:H	1.36	0.86
1:O:1:MET:HE3	1:O:47:PRO:HB3	1.57	0.86
1:R:815:PRO:C	1:R:816:GLU:CA	2.49	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:d:260:VAL:HA	1:d:264:TYR:H	1.41	0.86
1:d:384:GLN:HE21	1:d:384:GLN:H	1.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:601:MET:HG2	1:f:622:ALA:HB2	1.55	0.86
1:B:221:LEU:HD21	1:B:256:THR:CG2	2.05	0.86
1:G:11:PRO:HA	1:G:38:GLN:HA	1.55	0.86
1:J:54:PRO:HB2	1:J:55:PRO:HD3	1.56	0.86
1:L:601:MET:HE3	1:L:606:PHE:HB3	1.58	0.86
1:L:815:PRO:C	1:L:816:GLU:CA	2.49	0.86
1:P:49:ARG:HH22	1:Q:8:ILE:HD12	1.37	0.86
1:S:9:ARG:HH12	1:S:36:ILE:HA	1.39	0.86
1:S:268:LEU:HD13	1:S:269:GLY:H	1.40	0.86
1:X:14:HIS:HB3	1:X:56:ARG:HB2	1.58	0.86
1:a:49:ARG:NH2	1:b:8:ILE:CD1	2.39	0.86
1:a:571:ALA:O	1:a:575:ILE:HG12	1.74	0.86
1:d:337:LEU:HD22	1:d:357:TRP:HZ3	1.38	0.86
1:e:381:PRO:CA	1:e:405:THR:HG22	2.04	0.86
1:h:762:VAL:O	1:h:766:ARG:HB2	1.76	0.86
1:j:287:PRO:HA	1:j:314:GLU:OE2	1.74	0.86
1:A:387:GLY:HA3	1:A:402:ILE:HG22	1.58	0.86
1:K:469:GLN:HB3	1:K:496:THR:HG21	1.58	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:c:469:GLN:HB3	1:c:496:THR:HG21	1.55	0.86
1:h:1:MET:CE	1:h:47:PRO:HB3	2.06	0.86
1:k:221:LEU:HD21	1:k:256:THR:HG21	1.57	0.86
1:m:184:ASP:HB2	1:m:189:GLY:O	1.75	0.86
1:A:73:VAL:H	1:A:84:ARG:HB2	1.41	0.86
1:D:191:VAL:HG12	1:D:194:GLU:HB2	1.57	0.86
1:R:330:GLN:HG3	1:R:379:ALA:HB2	1.57	0.86
1:S:1:MET:HE3	1:S:47:PRO:HB3	1.57	0.86
1:Y:176:LEU:HD13	1:Y:209:PHE:CD1	2.11	0.86
1:d:54:PRO:HB2	1:d:55:PRO:HD3	1.55	0.86
1:f:217:ASP:HB2	1:f:258:ALA:HA	1.55	0.86
1:g:24:ASN:HD22	1:g:30:VAL:HB	1.41	0.86
1:i:116:LEU:HB3	1:i:117:PRO:CD	2.05	0.86
1:i:260:VAL:HA	1:i:264:TYR:H	1.40	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:H:501:SER:HB3	1:H:507:ARG:O	1.74	0.85
1:I:381:PRO:CA	1:I:405:THR:HG22	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:54:PRO:HB2	1:g:55:PRO:CD	2.05	0.85
1:g:132:LYS:HZ1	1:g:152:ILE:HD12	1.38	0.85
1:h:771:ILE:HD13	1:h:774:ARG:NH1	1.90	0.85
1:l:116:LEU:HB3	1:l:117:PRO:CD	2.05	0.85
1:A:176:LEU:HD13	1:A:209:PHE:HD1	1.40	0.85
1:C:182:CYS:SG	1:C:208:VAL:CG2	2.63	0.85
1:H:77:ILE:HG13	1:H:80:GLN:H	1.39	0.85
1:a:116:LEU:HB3	1:a:117:PRO:CD	2.04	0.85
1:a:175:ARG:HE	1:a:263:VAL:HG22	1.41	0.85
1:b:20:ASP:HB2	1:b:49:ARG:CD	2.05	0.85
1:e:14:HIS:CB	1:e:56:ARG:HB2	2.06	0.85
1:e:601:MET:HG2	1:e:622:ALA:HB2	1.57	0.85
1:g:815:PRO:C	1:g:816:GLU:CA	2.49	0.85
1:k:18:VAL:H	1:k:48:VAL:HG13	1.38	0.85
1:k:67:ARG:HG2	1:k:108:ASP:HB3	1.56	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: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:f:36:ILE:HG21	1:f:99:LEU:HD13	1.58	0.85
1:h:287:PRO:HA	1:h:314:GLU:OE2	1.77	0.85
1:i:115:VAL:H	1:i:118:ASN:ND2	1.74	0.85
1:A:332:LEU:HB2	1:A:377:ARG:HB3	1.58	0.85
1:B:326:LEU:HD21	1:B:333:LEU:HG	1.58	0.85
1:X:327:SER:HB2	1:X:331:GLY:CA	2.07	0.85
1:e:332:LEU:HD21	1:e:407:MET:CB	2.07	0.85
1:g:273:ILE:HG13	1:g:308:PHE:HB3	1.57	0.85
1:h:28:VAL:HG12	1:h:30:VAL:HG23	1.58	0.85
1:j:332:LEU:HD21	1:j:407:MET:HB2	1.58	0.85
1:e:326:LEU:HD21	1:e:333:LEU:HG	1.58	0.85
1:h:90:ILE:N	1:h:90:ILE:HD13	1.92	0.85
1:F:527:ILE:HD11	1:F:539:LEU:HB2	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:g:132:LYS:NZ	1:g:152:ILE:CD1	2.40	0.85
1:g:419:LEU:HD12	1:g:494:GLN:HE21	1.40	0.85
1:E:18:VAL:H	1:E:48:VAL:HG13	1.42	0.85
1:F:394:LYS:HG2	1:G:329:GLN:HG3	1.59	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: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:a:689:GLU:O	1:a:693:ILE:HD13	1.76	0.85
1:b:268:LEU:HD13	1:b:269:GLY:H	1.42	0.85
1:H:18:VAL:H	1:H:48:VAL:HG13	1.40	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:K:381:PRO:HA	1:K:405:THR:HG22	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:Z:815:PRO:C	1:Z:816:GLU:CA	2.48	0.85
1:d:332:LEU:HD21	1:d:407:MET:HB3	1.58	0.85
1:e:328:GLU:OE1	1:e:362:PRO:HA	1.77	0.85
1:i:132:LYS:HZ2	1:i:152:ILE:HD12	1.37	0.85
1:m:1:MET:HE3	1:m:47:PRO:HB3	1.57	0.85
1:H:328:GLU:HG3	1:H:329:GLN:N	1.88	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:b:180:LYS:C	1:b:182:CYS:H	1.85	0.85
1:l:654:LEU:CD1	1:m:662:ILE:HD13	2.06	0.85
1:F:9:ARG:HH12	1:F:36:ILE:HA	1.42	0.84
1:J:474:ARG:HG3	1:J:492:GLU:HB2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:239:ARG:HH21	1:a:257:GLU:HG2	1.41	0.84
1:i:73:VAL:H	1:i:84:ARG:HB2	1.39	0.84
1:i:260:VAL:HB	1:i:263:VAL:HA	1.59	0.84
1:E:230:ARG:HG2	1:E:248:GLU:HG2	1.59	0.84
1:G:328:GLU:HA	1:G:328:GLU:OE1	1.76	0.84
1:J:18:VAL:H	1:J:48:VAL:HG13	1.41	0.84
1:K:394:LYS:HG2	1:L:329:GLN:HG3	1.59	0.84
1:Q:653:ALA:HB3	1:R:662:ILE:CD1	2.07	0.84
1:e:224:LYS:HA	1:e:272:PRO:HG3	1.59	0.84
1:e:649:ARG:HH21	1:f:655:GLN:HG2	1.42	0.84
1:B:18:VAL:H	1:B:48:VAL:HG13	1.42	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:M:180:LYS:C	1:M:182:CYS:H	1.80	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:b:284:ILE:HD13	1:b:284:ILE:H	1.42	0.84
1:f:260:VAL:HA	1:f:264:TYR:H	1.38	0.84
1:f:337:LEU:HD22	1:f:357:TRP:HZ3	1.43	0.84
1:i:338:GLN:HB3	1:i:339:PRO:HD3	1.58	0.84
1:J:70:GLN:HB3	1:J:104:VAL:H	1.42	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: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:f:5:GLU:HG2	1:f:43:VAL:HG21	1.59	0.84
1:f:24:ASN:HD22	1:f:30:VAL:HB	1.40	0.84
1:f:408:LEU:HD21	1:f:414:LEU:HD12	1.56	0.84
1:i:227:LEU:HB2	1:i:251:VAL:HG12	1.58	0.84
1:H:183:PHE:HA	1:H:190:ARG:HD3	1.60	0.84
1:L:182:CYS:SG	1:L:208:VAL:HB	2.17	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:a:419:LEU:HG	1:a:420:PRO:HD2	1.57	0.84
1:k:340:LEU:HG	1:k:353:ALA:H	1.42	0.84
1:k:755:THR:HG21	1:l:761:ARG:HG2	1.59	0.84
1:B:154:GLN:HG3	1:B:155:LYS:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:543:TYR:CE2	1:M:575:ILE:HG21	2.13	0.84
1:b:129:PHE:O	1:b:137:VAL:HB	1.78	0.84
1:c:11:PRO:HA	1:c:38:GLN:HA	1.59	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:328:GLU:HG2	1:B:329:GLN:N	1.90	0.84
1:Q:328:GLU:OE1	1:Q:362:PRO:HA	1.74	0.84
1:X:770:LEU:HD13	1:X:774:ARG:NH2	1.91	0.84
1:b:260:VAL:HB	1:b:263:VAL:HA	1.58	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:K:287:PRO:HA	1:K:314:GLU:OE2	1.78	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:f:1:MET:CE	1:f:47:PRO:HB3	2.06	0.84
1:g:152:ILE:CD1	1:g:152:ILE:H	1.90	0.84
1:A:459:SER:HB3	1:A:488:THR:HG22	1.60	0.84
1:B:14:HIS:HB3	1:B:56:ARG:HB2	1.59	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:X:184:ASP:HB2	1:X:189:GLY:O	1.78	0.84
1:j:381:PRO:HA	1:j:405:THR:CG2	2.08	0.84
1:l:260:VAL:HA	1:l:264:TYR:H	1.43	0.84
1:B:221:LEU:HD21	1:B:256:THR:HG21	1.59	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:L:10:ILE:H	1:L:10:ILE:HD12	1.43	0.84
1:Q:14:HIS:CB	1:Q:56:ARG:HB2	2.08	0.84
1:S:54:PRO:HB2	1:S:55:PRO:CD	2.07	0.84
1:S:260:VAL:HA	1:S:264:TYR:H	1.42	0.84
1:W:529:ILE:HD12	1:W:583:VAL:HG11	1.59	0.84
1:b:337:LEU:HD22	1:b:357:TRP:HZ3	1.42	0.84
1:D:332:LEU:HD21	1:D:407:MET:CB	2.08	0.83
1:F:326:LEU:HD21	1:F:333:LEU:HG	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:70:GLN:HB3	1:b:104:VAL:O	1.76	0.83
1:d:176:LEU:HD13	1:d:209:PHE:HD1	1.42	0.83
1:h:227:LEU:HB2	1:h:251:VAL:HG12	1.59	0.83
1:i:381:PRO:HA	1:i:405:THR:CG2	2.06	0.83
1:A:662:ILE:HD11	1:m:653:ALA:HB1	1.60	0.83
1:D:459:SER:HB3	1:D:488:THR:HG22	1.59	0.83
1:L:543:TYR:HE2	1:L:575:ILE:HG21	1.40	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:Y:251:VAL:HG21	1:Y:257:GLU:HG2	1.58	0.83
1:a:337:LEU:HD22	1:a:357:TRP:CZ3	2.13	0.83
1:g:419:LEU:HG	1:g:420:PRO:HD2	1.60	0.83
1:k:224:LYS:HA	1:k:272:PRO:HG3	1.58	0.83
1:F:199:ARG:HH21	1:F:258:ALA:HB3	1.43	0.83
1:R:28:VAL:HG12	1:R:30:VAL:HG23	1.58	0.83
1:R:217:ASP:HB2	1:R:258:ALA:HA	1.60	0.83
1:R:227:LEU:HB2	1:R:251:VAL:HG12	1.59	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:Y:328:GLU:HG3	1:Y:329:GLN:N	1.89	0.83
1:b:182:CYS:O	1:b:190:ARG:HB2	1.77	0.83
1:b:381:PRO:HA	1:b:405:THR:CG2	2.08	0.83
1:d:132:LYS:NZ	1:d:152:ILE:CD1	2.42	0.83
1:i:10:ILE:HD12	1:i:10:ILE:H	1.41	0.83
1:l:523:PHE:CE1	1:l:568:VAL:HG12	2.14	0.83
1:B:176:LEU:HB2	1:B:196:TRP:HB2	1.60	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:M:116:LEU:HB3	1:M:117:PRO:CD	2.09	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:e:327:SER:HB2	1:e:331:GLY:CA	2.07	0.83
1:h:419:LEU:HG	1:h:420:PRO:HD2	1.59	0.83
1:i:287:PRO:HA	1:i:314:GLU:OE2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:704:LYS:HD2	1:j:712:MET:HB3	1.60	0.83
1:j:221:LEU:HD22	1:j:256:THR:HB	1.59	0.83
1:B:221:LEU:HD22	1:B:256:THR:CB	2.08	0.83
1:L:653:ALA:HB3	1:M:662:ILE:CD1	2.08	0.83
1:N:327:SER:HB2	1:N:331:GLY:HA3	1.58	0.83
1:X:281:TYR:CE1	1:X:321:GLN:HB2	2.12	0.83
1:X:653:ALA:HB3	1:Y:662:ILE:HD11	1.58	0.83
1:Y:168:ILE:HD13	1:Y:172:GLN:OE1	1.77	0.83
1:d:176:LEU:HB2	1:d:196:TRP:HB2	1.59	0.83
1:H:116:LEU:HB3	1:H:117:PRO:CD	2.08	0.83
1:I:287:PRO:HA	1:I:314:GLU:OE2	1.79	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:d:10:ILE:H	1:d:10:ILE:HD12	1.42	0.83
1:i:381:PRO:CA	1:i:405:THR:HG22	2.08	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: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:OE1	1:R:328:GLU:HA	1.78	0.83
1:W:1:MET:CE	1:W:47:PRO:HB3	2.08	0.83
1:c:419:LEU:HG	1:c:420:PRO:HD2	1.61	0.83
1:d:517:LEU:H	1:d:517:LEU:HD12	1.42	0.83
1:g:287:PRO:HA	1:g:314:GLU:OE2	1.79	0.83
1:j:9:ARG:HH12	1:j:36:ILE:HA	1.41	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: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:Y:771:ILE:HD13	1:Y:774:ARG:HH12	1.43	0.83
1:b:115:VAL:H	1:b:118:ASN:HD22	1.25	0.83
1:g:109:ILE:HD12	1:g:153:PRO:HB2	1.61	0.83
1:j:252:THR:H	1:j:254:GLN:NE2	1.76	0.83
1:m:273:ILE:HG21	1:m:316:LEU:HD11	1.60	0.83
1:G:10:ILE:H	1:G:10:ILE:HD12	1.42	0.83
1:K:14:HIS:HB3	1:K:56:ARG:HB2	1.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:k:260:VAL:HB	1:k:263:VAL:HA	1.59	0.83
1:I:9:ARG:HH12	1:I:36:ILE:HA	1.43	0.83
1:I:120:ALA:HB2	1:I:164:GLN:HE22	1.43	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:e:24:ASN:HD22	1:e:30:VAL:HB	1.42	0.83
1:e:205:LEU:HD22	1:e:211:GLU:HB2	1.60	0.83
1:f:67:ARG:HH21	1:f:107:LYS:HA	1.44	0.83
1:j:163:ILE:H	1:j:163:ILE:HD12	1.41	0.83
1:k:16:ILE:HA	1:k:34:THR:OG1	1.77	0.83
1:k:154:GLN:HG3	1:k:155:LYS:HG3	1.59	0.83
1:l:176:LEU:HB2	1:l:196:TRP:HB2	1.61	0.83
1:l:459:SER:HB3	1:l:488:THR:HG22	1.61	0.83
1:l:654:LEU:CD1	1:m:662:ILE:CD1	2.57	0.83
1:m:61:VAL:HG13	1:m:65:VAL:HG23	1.61	0.83
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:K:18:VAL:HG13	1:K:48:VAL:HG22	1.61	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:d:28:VAL:HG12	1:d:30:VAL:HG23	1.59	0.82
1:i:130:GLU:H	1:i:137:VAL:HG13	1.43	0.82
1:l:109:ILE:CD1	1:l:153:PRO:HB2	2.08	0.82
1:B:459:SER:CB	1:B:488:THR:HG22	2.09	0.82
1:S:490:ASP:CG	1:S:491:PRO:HD2	2.04	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:c:18:VAL:H	1:c:48:VAL:HG13	1.42	0.82
1:d:9:ARG:NH1	1:d:36:ILE:HA	1.94	0.82
1:d:100:TYR:HB3	1:d:101:PRO:CD	2.09	0.82
1:B:10:ILE:HD12	1:B:10:ILE:H	1.45	0.82
1:I:326:LEU:HD21	1:I:333:LEU:HG	1.61	0.82
1:O:490:ASP:CG	1:O:491:PRO:HD2	2.02	0.82
1:S:176:LEU:HD13	1:S:209:PHE:HD1	1.43	0.82
1:W:18:VAL:H	1:W:48:VAL:HG13	1.42	0.82
1:W:459:SER:HB3	1:W:488:THR:HG22	1.62	0.82
1:X:18:VAL:H	1:X:48:VAL:HG13	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:332:LEU:HD21	1:Z:407:MET:CB	2.09	0.82
1:a:328:GLU:OE1	1:a:328:GLU:HA	1.78	0.82
1:c:176:LEU:HD13	1:c:209:PHE:CD1	2.11	0.82
1:c:262:ASP:HB3	1:c:264:TYR:CE1	2.15	0.82
1:e:419:LEU:CG	1:e:420:PRO:HD2	2.06	0.82
1:i:327:SER:HB2	1:i:331:GLY:CA	2.08	0.82
1:i:408:LEU:HD21	1:i:414:LEU:HD12	1.60	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: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:a:11:PRO:HA	1:a:38:GLN:HA	1.62	0.82
1:j:60:ILE:HD13	1:j:93:ALA:HA	1.59	0.82
1:A:327:SER:HB2	1:A:331:GLY:CA	2.08	0.82
1:E:653:ALA:CB	1:F:662:ILE:CD1	2.56	0.82
1:F:10:ILE:HD12	1:F:10:ILE:H	1.42	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
1:V:24:ASN:HD22	1:V:30:VAL:HB	1.44	0.82
1:e:1:MET:CE	1:e:47:PRO:HB3	2.10	0.82
1:e:176:LEU:HB2	1:e:196:TRP:HB2	1.61	0.82
1:e:745:LYS:HG3	1:f:753:ILE:HD13	1.60	0.82
1:g:19:LEU:HA	1:g:32:PRO:HB3	1.61	0.82
1:g:273:ILE:HG23	1:g:310:LEU:HD11	1.61	0.82
1:h:785:GLN:HA	1:i:790:VAL:HG21	1.60	0.82
1:m:176:LEU:HD13	1:m:209:PHE:HD1	1.42	0.82
1:C:1:MET:HE3	1:C:47:PRO:HB3	1.59	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:J:490:ASP:CG	1:J:491:PRO:HD2	2.03	0.82
1:L:5:GLU:HG2	1:L:43:VAL:HG21	1.61	0.82
1:L:337:LEU:HD22	1:L:357:TRP:CZ3	2.14	0.82
1:R:332:LEU:HD21	1:R:407:MET:CB	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:54:PRO:HB2	1:K:55:PRO:HD3	1.62	0.82
1:K:481:VAL:HG11	1:K:487:VAL:HG13	1.59	0.82
1:N:64:PRO:HA	1:N:111:PRO:HD2	1.60	0.82
1:N:227:LEU:HB2	1:N:251:VAL:CG1	2.08	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:d:116:LEU:HB3	1:d:117:PRO:HD2	1.60	0.82
1:f:332:LEU:HB2	1:f:377:ARG:HB3	1.59	0.82
1:k:19:LEU:HA	1:k:32:PRO:CB	2.10	0.82
1:k:654:LEU:HD12	1:l:662:ILE:HG21	1.59	0.82
1:E:771:ILE:HD13	1:E:774:ARG:HD2	1.61	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:b:338:GLN:HB2	1:b:339:PRO:HD3	1.60	0.82
1:d:653:ALA:HB3	1:e:662:ILE:CD1	2.09	0.82
1:f:109:ILE:HD12	1:f:153:PRO:CG	2.10	0.82
1:f:419:LEU:HG	1:f:420:PRO:CD	2.08	0.82
1:l:381:PRO:HA	1:l:405:THR:CG2	2.10	0.82
1:D:11:PRO:HA	1:D:38:GLN:HA	1.59	0.82
1:E:116:LEU:HB3	1:E:117:PRO:CD	2.07	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:d:221:LEU:HD22	1:d:256:THR:CG2	2.09	0.82
1:f:176:LEU:HB2	1:f:196:TRP:HB2	1.61	0.82
1:h:113:GLN:HG2	1:h:150:THR:HB	1.62	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:I:54:PRO:HB2	1:I:55:PRO:HD3	1.60	0.82
1:I:176:LEU:HB2	1:I:196:TRP:HB2	1.62	0.82
1:L:60:ILE:HD13	1:L:93:ALA:HA	1.60	0.82
1:M:452:ARG:HG3	1:M:452:ARG:HH11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:397:LYS:HA	1:c:384:GLN:OE1	1.80	0.82
1:c:571:ALA:O	1:c:575:ILE:HG12	1.80	0.82
1:h:224:LYS:HA	1:h:272:PRO:HG3	1.60	0.82
1:i:332:LEU:HD21	1:i:407:MET:HB2	1.61	0.82
1:B:252:THR:H	1:B:254:GLN:NE2	1.77	0.81
1:C:116:LEU:HB3	1:C:117:PRO:HD2	1.60	0.81
1:H:469:GLN:HB3	1:H:496:THR:HG21	1.62	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:e:115:VAL:HB	1:e:148:PRO:HA	1.62	0.81
1:i:340:LEU:HG	1:i:353:ALA:H	1.44	0.81
1:m:5:GLU:CG	1:m:43:VAL:HG21	2.09	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: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:OE1	1:Q:328:GLU:HA	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:e:109:ILE:HD12	1:e:153:PRO:HB2	1.59	0.81
1:e:459:SER:HB3	1:e:488:THR:HG22	1.61	0.81
1:j:5:GLU:HA	1:j:7:ILE:HD11	1.62	0.81
1:D:10:ILE:H	1:D:10:ILE:HD12	1.42	0.81
1:D:182:CYS:SG	1:D:208:VAL:HG21	2.21	0.81
1:I:224:LYS:O	1:I:272:PRO:HD3	1.81	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
1:R:381:PRO:CA	1:R:405:THR:HG22	2.11	0.81
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:U:273:ILE:HD13	1:U:316:LEU:HD21	1.61	0.81
1:V:1:MET:CE	1:V:47:PRO:HB3	2.10	0.81
1:a:511:ARG:HH22	1:a:517:LEU:HD11	1.45	0.81
1:a:653:ALA:HB1	1:b:662:ILE:HD11	1.61	0.81
1:b:11:PRO:HA	1:b:38:GLN:HA	1.62	0.81
1:e:8:ILE:HG22	1:e:40:ASN:ND2	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:387:GLY:HA3	1:f:402:ILE:HG22	1.60	0.81
1:g:176:LEU:HB2	1:g:196:TRP:HB2	1.61	0.81
1:j:408:LEU:HD21	1:j:414:LEU:HD12	1.63	0.81
1:k:5:GLU:OE1	1:k:43:VAL:HG11	1.79	0.81
1:l:8:ILE:HD13	1:l:8:ILE:H	1.43	0.81
1:m:523:PHE:CE1	1:m:568:VAL:HG12	2.15	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: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:b:1:MET:CE	1:b:47:PRO:HB3	2.09	0.81
1:b:221:LEU:HD22	1:b:256:THR:HB	1.61	0.81
1:A:134:GLY:O	1:A:135:ASP:HB2	1.79	0.81
1:G:332:LEU:HD21	1:G:407:MET:CB	2.11	0.81
1:K:1:MET:CE	1:K:47:PRO:HB3	2.10	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:HE21	1:Y:384:GLN:H	1.29	0.81
1:h:4:GLU:OE2	1:h:6:ALA:HB2	1.80	0.81
1:i:182:CYS:O	1:i:190:ARG:HB2	1.81	0.81
1:k:67:ARG:HH21	1:k:107:LYS:HA	1.45	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: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:Z:653:ALA:HB3	1:a:662:ILE:CD1	2.11	0.81
1:j:10:ILE:H	1:j:10:ILE:HD12	1.44	0.81
1:A:14:HIS:NE2	1:A:16:ILE:HD11	1.95	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	Interatomic distance (Å)	Clash overlap (Å)
1:Z:221:LEU:HD22	1:Z:256:THR:HG21	1.62	0.81
1:d:171:ASN:O	1:d:216:VAL:HG12	1.81	0.81
1:d:653:ALA:HB1	1:e:662:ILE:CD1	2.01	0.81
1:e:221:LEU:CD2	1:e:256:THR:HG21	2.10	0.81
1:f:328:GLU:HG3	1:f:329:GLN:N	1.93	0.81
1:h:5:GLU:HG2	1:h:43:VAL:HG21	1.61	0.81
1:k:767:GLU:O	1:k:771:ILE:HG12	1.81	0.81
1:m:459:SER:HB3	1:m:488:THR:HG22	1.61	0.81
1:H:281:TYR:HE1	1:H:321:GLN:HB2	1.45	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:f:154:GLN:HG3	1:f:155:LYS:HG3	1.63	0.81
1:i:227:LEU:HB2	1:i:251:VAL:CG1	2.10	0.81
1:j:766:ARG:HD3	1:k:772:TYR:HB2	1.63	0.81
1:B:130:GLU:HB2	1:B:136:LYS:HA	1.61	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:a:273:ILE:HD13	1:a:316:LEU:HD11	1.61	0.81
1:d:384:GLN:H	1:d:384:GLN:NE2	1.78	0.81
1:i:115:VAL:N	1:i:118:ASN:HD22	1.77	0.81
1:j:132:LYS:NZ	1:j:152:ILE:CD1	2.38	0.81
1:j:381:PRO:CA	1:j:405:THR:HG22	2.08	0.81
1:j:687:ARG:HG2	1:j:691:GLN:HE21	1.46	0.81
1:m:327:SER:HB2	1:m:331:GLY:CA	2.11	0.81
1:D:802:LEU:HD12	1:D:806:THR:HG22	1.62	0.81
1:M:18:VAL:H	1:M:48:VAL:HG13	1.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:332:LEU:HD21	1:a:407:MET:CB	2.11	0.81
1:d:755:THR:HG21	1:e:761:ARG:HG2	1.60	0.81
1:e:284:ILE:HD13	1:e:284:ILE:H	1.46	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:73:VAL:H	1:S:84:ARG:HB2	1.45	0.80
1:S:381:PRO:HA	1:S:405:THR:CG2	2.11	0.80
1:T:517:LEU:H	1:T:517:LEU:HD12	1.46	0.80
1:U:121:LEU:HB2	1:U:145:PHE:CB	2.10	0.80
1:i:1:MET:CE	1:i:47:PRO:HB3	2.11	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: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:1:MET:CE	1:J:47:PRO:HB3	2.11	0.80
1:L:184:ASP:HB2	1:L:189:GLY:O	1.80	0.80
1:O:49:ARG:HH22	1:P:8:ILE:HD12	1.46	0.80
1:P:332:LEU:HD21	1:P:407:MET:CB	2.11	0.80
1:c:745:LYS:HG3	1:d:753:ILE:HD11	1.62	0.80
1:j:227:LEU:HB2	1:j:251:VAL:CG1	2.11	0.80
1:J:221:LEU:HD22	1:J:256:THR:CG2	2.11	0.80
1:Q:539:LEU:HD22	1:Q:643:VAL:HG22	1.63	0.80
1:Y:1:MET:HE3	1:Y:47:PRO:HB3	1.60	0.80
1:Z:649:ARG:HH21	1:a:655:GLN:HG2	1.46	0.80
1:d:19:LEU:HA	1:d:32:PRO:HB2	1.63	0.80
1:k:327:SER:HB2	1:k:331:GLY:HA3	1.62	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:F:1:MET:CE	1:F:47:PRO:HB3	2.10	0.80
1:J:294:ASN:HD21	1:J:313:GLY:HA3	1.47	0.80
1:K:459:SER:HB3	1:K:488:THR:HG22	1.63	0.80
1:K:807:ILE:HD12	1:L:806:THR:HG21	1.63	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:a:734:ARG:HH21	1:a:735:ILE:HD13	1.46	0.80
1:c:601:MET:HG3	1:c:622:ALA:HB2	1.63	0.80
1:h:11:PRO:HA	1:h:38:GLN:HA	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:474:ARG:HG3	1:h:492:GLU:HB2	1.64	0.80
1:i:273:ILE:HD13	1:i:316:LEU:HD11	1.64	0.80
1:l:115:VAL:N	1:l:118:ASN:HD22	1.79	0.80
1:l:654:LEU:HD12	1:m:662:ILE:HD12	1.62	0.80
1:O:11:PRO:HA	1:O:38:GLN:HA	1.63	0.80
1:O:194:GLU:HG2	1:O:195:GLU:H	1.45	0.80
1:S:65:VAL:HG12	1:S:110:THR:HG22	1.63	0.80
1:S:517:LEU:HD12	1:S:517:LEU:H	1.44	0.80
1:W:70:GLN:HB3	1:W:104:VAL:O	1.82	0.80
1:d:340:LEU:HD23	1:d:352:GLN:HA	1.63	0.80
1:e:387:GLY:HA3	1:e:402:ILE:HG22	1.63	0.80
1:g:182:CYS:O	1:g:190:ARG:HB2	1.81	0.80
1:A:654:LEU:HD12	1:B:662:ILE:HD12	1.64	0.80
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:a:109:ILE:HD12	1:a:153:PRO:HG2	1.61	0.80
1:e:8:ILE:HG22	1:e:40:ASN:HD21	1.46	0.80
1:g:771:ILE:HD13	1:g:774:ARG:NH1	1.95	0.80
1:E:14:HIS:HB3	1:E:56:ARG:HB2	1.64	0.80
1:E:653:ALA:HB3	1:F:662:ILE:HD11	1.62	0.80
1:I:653:ALA:HB3	1:J:662:ILE:HD11	1.64	0.80
1:K:176:LEU:HB2	1:K:196:TRP:HB2	1.64	0.80
1:P:87:ASP:CG	1:P:88:GLN:H	1.90	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:b:176:LEU:HB2	1:b:196:TRP:HB2	1.63	0.80
1:h:163:ILE:HD12	1:h:163:ILE:H	1.47	0.80
1:A:151:TYR:CD2	1:A:152:ILE:HD13	2.17	0.80
1:C:654:LEU:HD12	1:D:662:ILE:HD12	1.61	0.80
1:D:224:LYS:O	1:D:272:PRO:HD3	1.82	0.80
1:E:332:LEU:HB2	1:E:377:ARG:HB3	1.63	0.80
1:G:474:ARG:CG	1:G:492:GLU:HB2	2.12	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: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:Q:490:ASP:CG	1:Q:491:PRO:HD2	2.05	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:485:GLU:HG2	1:a:486:LEU:N	1.96	0.80
1:a:771:ILE:HD13	1:a:774:ARG:NH1	1.97	0.80
1:e:529:ILE:HD12	1:e:583:VAL:HG11	1.62	0.80
1:l:75:PHE:CZ	1:l:77:ILE:HG23	2.17	0.80
1:A:1:MET:CE	1:A:47:PRO:HB3	2.11	0.80
1:H:381:PRO:HA	1:H:405:THR:CG2	2.12	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:HD13	1:S:284:ILE:H	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
1:X:243:HIS:HE2	1:X:249:TRP:CG	2.00	0.80
1:b:120:ALA:HB2	1:b:164:GLN:HE22	1.47	0.80
1:h:539:LEU:HD22	1:h:643:VAL:HG22	1.62	0.80
1:j:11:PRO:HA	1:j:38:GLN:HA	1.64	0.80
1:k:381:PRO:CA	1:k:405:THR:HG22	2.12	0.80
1:A:10:ILE:H	1:A:10:ILE:HD12	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:N:130:GLU:H	1:N:137:VAL:HG12	1.45	0.80
1:O:394:LYS:HZ3	1:P:329:GLN:HB2	1.46	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:B:338:GLN:HB2	1:B:339:PRO:HD3	1.63	0.79
1:O:284:ILE:HD13	1:O:284:ILE:H	1.46	0.79
1:R:527:ILE:H	1:R:527:ILE:HD13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:785:GLN:HA	1:Z:790:VAL:HG21	1.63	0.79
1:d:689:GLU:O	1:d:693:ILE:HD13	1.82	0.79
1:i:224:LYS:HA	1:i:272:PRO:HG3	1.63	0.79
1:k:9:ARG:NH1	1:k:36:ILE:HA	1.96	0.79
1:k:221:LEU:HD22	1:k:256:THR:CB	2.11	0.79
1:m:221:LEU:HD22	1:m:256:THR:HB	1.62	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:e:36:ILE:HG21	1:e:99:LEU:HD13	1.63	0.79
1:g:180:LYS:C	1:g:182:CYS:H	1.88	0.79
1:h:495:PHE:HB3	1:h:514:LEU:HD11	1.63	0.79
1:j:469:GLN:HB3	1:j:496:THR:HG21	1.64	0.79
1:k:180:LYS:C	1:k:182:CYS:H	1.90	0.79
1:E:77:ILE:HG13	1:E:80:GLN:H	1.46	0.79
1:H:771:ILE:HD13	1:H:774:ARG:NH1	1.97	0.79
1:K:10:ILE:H	1:K:10:ILE:HD12	1.47	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:b:381:PRO:CA	1:b:405:THR:HG22	2.10	0.79
1:e:771:ILE:HD13	1:e:774:ARG:HH12	1.47	0.79
1:l:11:PRO:HA	1:l:38:GLN:HA	1.64	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
1:G:332:LEU:HD21	1:G:407:MET:HB3	1.65	0.79
1:L:384:GLN:N	1:L:384:GLN:HE21	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:221:LEU:HD22	1:b:256:THR:CB	2.12	0.79
1:e:260:VAL:HB	1:e:263:VAL:HA	1.65	0.79
1:i:311:GLN:HB3	1:i:312:PRO:HD2	1.63	0.79
1:j:472:ASP:HA	1:j:493:GLU:HB3	1.63	0.79
1:C:459:SER:CB	1:C:488:THR:HG22	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:360:ARG:HG3	1:b:361:GLY:N	1.98	0.79
1:d:18:VAL:H	1:d:48:VAL:HG13	1.47	0.79
1:h:115:VAL:N	1:h:118:ASN:HD22	1.81	0.79
1:F:19:LEU:HA	1:F:32:PRO:CB	2.13	0.79
1:F:268:LEU:HD13	1:F:269:GLY:H	1.47	0.79
1:I:116:LEU:HB3	1:I:117:PRO:CD	2.13	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:i:19:LEU:HA	1:i:32:PRO:HB3	1.63	0.79
1:k:459:SER:CB	1:k:488:THR:HG22	2.11	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:H:459:SER:HB3	1:H:488:THR:HG22	1.64	0.79
1:I:653:ALA:HB1	1:J:662:ILE:CD1	2.09	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:70:GLN:HB3	1:a:104:VAL:H	1.47	0.79
1:b:273:ILE:HG13	1:b:308:PHE:HB3	1.65	0.79
1:j:587:THR:HG23	1:j:590:ASP:CB	2.12	0.79
1:k:338:GLN:HB3	1:k:339:PRO:HD3	1.65	0.79
1:l:472:ASP:HA	1:l:493:GLU:HB3	1.64	0.79
1:l:785:GLN:HA	1:m:790:VAL:HG21	1.64	0.79
1:m:332:LEU:HD21	1:m:407:MET:CB	2.13	0.79
1:F:341:GLU:HG2	1:F:370:LYS:HD3	1.64	0.79
1:J:10:ILE:HD12	1:J:10:ILE:H	1.48	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:a:115:VAL:H	1:a:118:ASN:HD22	1.29	0.79
1:a:394:LYS:HG2	1:b:329:GLN:HG3	1.65	0.79
1:a:785:GLN:HA	1:b:790:VAL:HG21	1.63	0.79
1:h:579:VAL:HG13	1:h:599:ILE:HD12	1.64	0.79
1:k:338:GLN:CB	1:k:339:PRO:HD3	2.12	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	Interatomic distance (Å)	Clash overlap (Å)
1:I:381:PRO:HA	1:I:405:THR:CG2	2.10	0.79
1:I:813:ALA:O	1:I:815:PRO:HD3	1.83	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:Z:3:THR:CG2	1:Z:50:MET:HE1	2.13	0.79
1:c:14:HIS:HD1	1:c:36:ILE:HG22	1.46	0.79
1:g:286:ASP:HB3	1:g:296:LEU:HA	1.65	0.79
1:k:381:PRO:HA	1:k:405:THR:CG2	2.13	0.79
1:m:1:MET:CE	1:m:47:PRO:HB3	2.13	0.79
1:C:18:VAL:H	1:C:48:VAL:HG13	1.47	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:K:164:GLN:CD	1:K:204:TYR:HB2	2.08	0.79
1:L:18:VAL:H	1:L:48:VAL:HG13	1.47	0.79
1:L:327:SER:HB2	1:L:331:GLY:HA3	1.64	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:g:587:THR:HG23	1:g:590:ASP:HB3	1.63	0.79
1:l:73:VAL:H	1:l:84:ARG:HB2	1.48	0.79
1:l:176:LEU:HD13	1:l:209:PHE:CD1	2.15	0.79
1:m:176:LEU:HD13	1:m:209:PHE:CD1	2.17	0.79
1:B:381:PRO:HA	1:B:405:THR:CG2	2.13	0.78
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:8:ILE:HG22	1:J:40:ASN:ND2	1.99	0.78
1:J:36:ILE:CD1	1:J:58:TYR:HE1	1.96	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:H	1:B:384:GLN:NE2	1.79	0.78
1:D:9:ARG:HH12	1:D:36:ILE:HA	1.48	0.78
1:E:30:VAL:HG13	1:E:74:LEU:HD11	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:164:GLN:CD	1:L:204:TYR:HB3	2.08	0.78
1:L:384:GLN:H	1:L:384:GLN:HE21	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
1:X:328:GLU:HA	1:X:328:GLU:OE1	1.83	0.78
1:X:653:ALA:HB3	1:Y:662:ILE:CD1	2.10	0.78
1:c:120:ALA:HB2	1:c:164:GLN:HE22	1.48	0.78
1:f:452:ARG:HH11	1:f:452:ARG:CG	1.92	0.78
1:g:109:ILE:CD1	1:g:153:PRO:HB2	2.13	0.78
1:h:205:LEU:HD22	1:h:211:GLU:HB2	1.64	0.78
1:A:662:ILE:HD11	1:m:653:ALA:CB	2.13	0.78
1:B:338:GLN:CB	1:B:339:PRO:HD3	2.13	0.78
1:H:228:HIS:NE2	1:H:312:PRO:HB3	1.98	0.78
1:J:288:MET:HE2	1:J:294:ASN:HD22	1.47	0.78
1:O:24:ASN:HD22	1:O:30:VAL:HB	1.48	0.78
1:O:116:LEU:HB3	1:O:117:PRO:CD	2.11	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:S:180:LYS:C	1:S:182:CYS:H	1.87	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:a:113:GLN:HG2	1:a:150:THR:HB	1.63	0.78
1:b:777:LEU:HD11	1:c:783:LYS:HB2	1.64	0.78
1:e:785:GLN:HA	1:f:790:VAL:HG21	1.65	0.78
1:j:1:MET:CE	1:j:47:PRO:HB3	2.12	0.78
1:j:176:LEU:HD13	1:j:209:PHE:HD1	1.48	0.78
1:m:121:LEU:HD12	1:m:145:PHE:HD2	1.49	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: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:b:328:GLU:OE1	1:b:328:GLU:CA	2.29	0.78
1:c:332:LEU:HD21	1:c:407:MET:HB2	1.65	0.78
1:e:653:ALA:CB	1:f:662:ILE:CD1	2.62	0.78
1:m:65:VAL:HG12	1:m:110:THR:HG22	1.66	0.78
1:C:221:LEU:CD2	1:C:256:THR:HG21	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:VAL:HA	1:E:264:TYR:H	1.49	0.78
1:F:319:GLY:C	1:F:320:ILE:HD13	2.09	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:R:164:GLN:CD	1:R:204:TYR:HB3	2.09	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:b:116:LEU:HB3	1:b:117:PRO:CD	2.12	0.78
1:i:601:MET:HG2	1:i:622:ALA:HB2	1.64	0.78
1:l:327:SER:HB2	1:l:331:GLY:CA	2.13	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:G:328:GLU:OE1	1:G:362:PRO:HA	1.82	0.78
1:I:227:LEU:HB2	1:I:251:VAL:CG1	2.13	0.78
1:J:332:LEU:HD21	1:J:407:MET:HB2	1.66	0.78
1:P:49:ARG:HH22	1:Q:8:ILE:CD1	1.96	0.78
1:P:284:ILE:H	1:P:284:ILE:HD13	1.49	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
1:Z:653:ALA:CB	1:a:662:ILE:HD11	2.13	0.78
1:a:49:ARG:NH2	1:b:8:ILE:HD12	1.98	0.78
1:c:167:VAL:HG22	1:c:201:VAL:HA	1.66	0.78
1:d:24:ASN:HD22	1:d:30:VAL:HB	1.48	0.78
1:e:762:VAL:O	1:e:766:ARG:HB2	1.84	0.78
1:f:70:GLN:HB3	1:f:104:VAL:H	1.48	0.78
1:g:762:VAL:HG12	1:h:768:MET:HE2	1.64	0.78
1:F:115:VAL:H	1:F:118:ASN:HD22	1.32	0.78
1:G:9:ARG:HH12	1:G:36:ILE:HA	1.48	0.78
1:H:527:ILE:HD13	1:H:527:ILE:H	1.47	0.78
1:K:543:TYR:HE2	1:K:575:ILE:HG21	1.46	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:164:GLN:HB3	1:a:204:TYR:HA	1.65	0.78
1:d:601:MET:HG3	1:d:622:ALA:HB2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:332:LEU:HD21	1:j:407:MET:CB	2.13	0.78
1:k:5:GLU:HG2	1:k:43:VAL:HG21	1.66	0.78
1:k:332:LEU:HD21	1:k:407:MET:HB2	1.63	0.78
1:m:511:ARG:HH22	1:m:517:LEU:HD11	1.49	0.78
1:D:419:LEU:HG	1:D:420:PRO:CD	2.06	0.78
1:I:5:GLU:HG2	1:I:43:VAL:HG21	1.64	0.78
1:J:260:VAL:HB	1:J:263:VAL:HA	1.65	0.78
1:J:381:PRO:HA	1:J:405:THR:CG2	2.14	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:N:180:LYS:C	1:N:182:CYS:N	2.41	0.78
1:Q:481:VAL:HG11	1:Q:487:VAL:CG1	2.13	0.78
1:a:284:ILE:HD13	1:a:284:ILE:H	1.46	0.78
1:e:601:MET:HG2	1:e:622:ALA:CB	2.14	0.78
1:f:73:VAL:H	1:f:84:ARG:HB2	1.47	0.78
1:g:469:GLN:HB3	1:g:496:THR:HG21	1.65	0.78
1:i:338:GLN:CB	1:i:339:PRO:HD3	2.13	0.78
1:A:286:ASP:HB3	1:A:296:LEU:HA	1.66	0.78
1:F:332:LEU:HD21	1:F:407:MET:HB2	1.65	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: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:H	1:Z:384:GLN:NE2	1.82	0.78
1:c:14:HIS:HB3	1:c:56:ARG:HG3	1.66	0.78
1:f:606:PHE:HA	1:f:622:ALA:HA	1.66	0.78
1:j:260:VAL:HA	1:j:264:TYR:H	1.49	0.78
1:j:286:ASP:HB3	1:j:296:LEU:HA	1.64	0.78
1:l:729:ARG:NH1	1:l:729:ARG:HB2	1.99	0.78
1:B:182:CYS:O	1:B:190:ARG:HB2	1.84	0.78
1:F:182:CYS:SG	1:F:208:VAL:HB	2.24	0.78
1:G:115:VAL:H	1:G:118:ASN:HD22	1.30	0.78
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:N:220:ILE:C	1:N:222:THR:H	1.92	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:HA	1:U:328:GLU:OE1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:30:VAL:HG22	1:Y:74:LEU:HG	1.65	0.78
1:g:653:ALA:CB	1:h:662:ILE:CD1	2.60	0.78
1:j:227:LEU:HB2	1:j:251:VAL:HG12	1.65	0.78
1:k:14:HIS:HB2	1:k:56:ARG:HB2	1.64	0.78
1:D:60:ILE:HD12	1:D:60:ILE:H	1.47	0.77
1:D:476:LYS:HE2	1:E:485:GLU:HG3	1.66	0.77
1:G:227:LEU:HB2	1:G:251:VAL:CG1	2.13	0.77
1:H:239:ARG:HH21	1:H:257:GLU:HG2	1.49	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:h:115:VAL:O	1:h:118:ASN:HB3	1.84	0.77
1:j:116:LEU:HB3	1:j:117:PRO:HD2	1.65	0.77
1:j:224:LYS:HA	1:j:272:PRO:HG3	1.66	0.77
1:G:601:MET:HG2	1:G:622:ALA:CB	2.13	0.77
1:Q:1:MET:CE	1:Q:47:PRO:HB3	2.15	0.77
1:R:87:ASP:CG	1:R:88:GLN:H	1.91	0.77
1:b:9:ARG:HH12	1:b:36:ILE:HA	1.49	0.77
1:e:3:THR:HG22	1:e:50:MET:CE	2.14	0.77
1:e:623:ARG:HG3	1:e:624:ASP:H	1.49	0.77
1:i:419:LEU:HD23	1:i:421:SER:H	1.49	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	1.50	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: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:61:VAL:HG13	1:Z:65:VAL:HG23	1.65	0.77
1:Z:174:LEU:HB2	1:Z:198:VAL:HB	1.64	0.77
1:c:130:GLU:HB2	1:c:136:LYS:HA	1.65	0.77
1:c:653:ALA:HB3	1:d:662:ILE:HD13	1.64	0.77
1:d:77:ILE:HG13	1:d:79:GLY:H	1.49	0.77
1:m:481:VAL:HG11	1:m:487:VAL:CG1	2.13	0.77
1:A:419:LEU:HG	1:A:420:PRO:HD2	1.66	0.77
1:C:517:LEU:H	1:C:517:LEU:HD12	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:TYR:HE1	1:D:321:GLN:HB2	1.49	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:653:ALA:CB	1:b:662:ILE:CD1	2.62	0.77
1:d:77:ILE:CG1	1:d:80:GLN:H	1.97	0.77
1:d:469:GLN:HB3	1:d:496:THR:HG21	1.65	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:H:601:MET:CG	1:H:622:ALA:HB2	2.14	0.77
1:O:338:GLN:HB3	1:O:339:PRO:HD3	1.67	0.77
1:T:284:ILE:H	1:T:284:ILE:HD13	1.50	0.77
1:Y:45:PHE:HB3	1:Y:47:PRO:HD2	1.65	0.77
1:d:221:LEU:CD2	1:d:256:THR:HG21	2.14	0.77
1:k:204:TYR:O	1:k:206:PRO:HD3	1.83	0.77
1:l:755:THR:HG21	1:m:761:ARG:HG2	1.66	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: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:W:522:PHE:HD2	1:W:522:PHE:C	1.93	0.77
1:a:340:LEU:HD23	1:a:352:GLN:HA	1.65	0.77
1:a:523:PHE:CE1	1:a:568:VAL:HG12	2.20	0.77
1:d:381:PRO:HA	1:d:405:THR:CG2	2.15	0.77
1:f:5:GLU:OE1	1:f:43:VAL:HG11	1.83	0.77
1:k:481:VAL:HG11	1:k:487:VAL:HG13	1.67	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:C:338:GLN:HB2	1:C:339:PRO:HD3	1.67	0.77
1:H:495:PHE:HB3	1:H:514:LEU:HD11	1.67	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:b:262:ASP:HB3	1:b:264:TYR:CE1	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:182:CYS:O	1:d:190:ARG:HB2	1.83	0.77
1:e:9:ARG:HH12	1:e:36:ILE:HA	1.50	0.77
1:i:653:ALA:HB3	1:j:662:ILE:CD1	2.15	0.77
1:j:382:LEU:HB2	1:j:404:SER:O	1.85	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:B:70:GLN:HB3	1:B:104:VAL:O	1.85	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
1:E:1:MET:CE	1:E:47:PRO:HB3	2.14	0.77
1:L:252:THR:H	1:L:254:GLN:HE21	1.30	0.77
1:L:729:ARG:NH1	1:L:729:ARG:HB2	2.00	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:Z:653:ALA:CB	1:a:662:ILE:CD1	2.63	0.77
1:e:11:PRO:HA	1:e:38:GLN:HA	1.67	0.77
1:e:273:ILE:HD11	1:e:308:PHE:HD2	1.49	0.77
1:f:24:ASN:ND2	1:f:30:VAL:HB	1.99	0.77
1:k:330:GLN:HB3	1:k:379:ALA:HB3	1.67	0.77
1:C:84:ARG:HH22	1:C:101:PRO:HD2	1.49	0.77
1:G:332:LEU:HB2	1:G:377:ARG:HB3	1.67	0.77
1:L:19:LEU:HD23	1:L:32:PRO:HB2	1.67	0.77
1:M:284:ILE:H	1:M:284:ILE:HD13	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:c:164:GLN:HB3	1:c:204:TYR:HA	1.65	0.77
1:c:745:LYS:HG3	1:d:753:ILE:CD1	2.13	0.77
1:i:459:SER:CB	1:i:488:THR:HG22	2.14	0.77
1:l:19:LEU:HD23	1:l:32:PRO:HB2	1.67	0.77
1:A:120:ALA:HB3	1:A:162:ILE:HG13	1.67	0.77
1:F:605:GLY:O	1:F:623:ARG:HB2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:332:LEU:HB2	1:X:377:ARG:HB3	1.66	0.77
1:a:5:GLU:HG2	1:a:43:VAL:HG21	1.65	0.77
1:d:109:ILE:HD12	1:d:153:PRO:CG	2.15	0.77
1:e:332:LEU:HD21	1:e:407:MET:HB2	1.66	0.77
1:f:164:GLN:CD	1:f:204:TYR:HB3	2.10	0.77
1:f:185:ARG:HG3	1:f:206:PRO:CB	2.14	0.77
1:C:319:GLY:C	1:C:320:ILE:HD13	2.10	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: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:5:GLU:CG	1:Q:43:VAL:HG21	2.14	0.76
1:Q:245:THR:HG22	1:R:219:VAL:CG1	2.14	0.76
1:R:65:VAL:HA	1:R:110:THR:CA	2.15	0.76
1:R:176:LEU:HD13	1:R:209:PHE:HD1	1.48	0.76
1:Z:495:PHE:HB3	1:Z:514:LEU:HD11	1.65	0.76
1:b:766:ARG:HD3	1:c:772:TYR:HB2	1.67	0.76
1:c:338:GLN:CB	1:c:339:PRO:HD3	2.15	0.76
1:h:338:GLN:CB	1:h:339:PRO:HD3	2.15	0.76
1:j:18:VAL:H	1:j:48:VAL:HG13	1.49	0.76
1:A:476:LYS:HE2	1:B:485:GLU:HG3	1.67	0.76
1:B:452:ARG:HG3	1:B:452:ARG:HH11	1.48	0.76
1:C:601:MET:HG2	1:C:622:ALA:HB2	1.66	0.76
1:F:390:VAL:HG12	1:F:408:LEU:HD23	1.65	0.76
1:G:807:ILE:HD12	1:G:808:ARG:N	2.01	0.76
1:M:176:LEU:HD13	1:M:209:PHE:CD1	2.17	0.76
1:M:260:VAL:HB	1:M:263:VAL:HA	1.67	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:d:273:ILE:HD11	1:d:308:PHE:HD2	1.51	0.76
1:e:564:VAL:HG22	1:e:631:ASN:HD22	1.49	0.76
1:g:14:HIS:HB3	1:g:56:ARG:HB2	1.67	0.76
1:j:330:GLN:HB3	1:j:379:ALA:HB3	1.66	0.76
1:m:600:ARG:NH1	1:m:622:ALA:HB3	1.99	0.76
1:E:796:LYS:HA	1:E:799:THR:HG22	1.65	0.76
1:F:36:ILE:HD13	1:F:36:ILE:O	1.86	0.76
1:F:332:LEU:HB2	1:F:377:ARG:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:c:220:ILE:HD12	1:c:251:VAL:O	1.84	0.76
1:h:116:LEU:HB3	1:h:117:PRO:CD	2.15	0.76
1:k:281:TYR:CE1	1:k:321:GLN:HB2	2.20	0.76
1:k:419:LEU:HD23	1:k:421:SER:H	1.50	0.76
1:B:28:VAL:HG12	1:B:30:VAL:HG23	1.67	0.76
1:C:766:ARG:HD2	1:D:768:MET:HE1	1.67	0.76
1:F:176:LEU:HD13	1:F:209:PHE:CD1	2.17	0.76
1:F:767:GLU:O	1:F:771:ILE:HD13	1.86	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
1:e:523:PHE:CE1	1:e:568:VAL:HG12	2.21	0.76
1:g:766:ARG:HD2	1:h:768:MET:HE1	1.67	0.76
1:j:16:ILE:HA	1:j:34:THR:OG1	1.84	0.76
1:m:381:PRO:HA	1:m:405:THR:CG2	2.14	0.76
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:K:9:ARG:NH1	1:K:36:ILE:HA	2.01	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:Z:49:ARG:NH2	1:a:8:ILE:HD12	2.01	0.76
1:d:474:ARG:HG3	1:d:492:GLU:HB2	1.66	0.76
1:i:490:ASP:CG	1:i:491:PRO:HD2	2.11	0.76
1:i:799:THR:HG21	1:j:801:ALA:HB1	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:90:ILE:HD13	1:m:90:ILE:H	1.48	0.76
1:D:14:HIS:HB3	1:D:56:ARG:HB2	1.68	0.76
1:E:19:LEU:HA	1:E:32:PRO:HB3	1.67	0.76
1:H:19:LEU:HD23	1:H:32:PRO:HB2	1.66	0.76
1:K:260:VAL:HA	1:K:264:TYR:H	1.47	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:a:419:LEU:HD12	1:a:494:GLN:HE21	1.49	0.76
1:e:262:ASP:HB3	1:e:264:TYR:CE1	2.21	0.76
1:f:407:MET:SD	1:f:407:MET:N	2.59	0.76
1:g:338:GLN:CB	1:g:339:PRO:HD3	2.16	0.76
1:h:45:PHE:HB3	1:h:47:PRO:HD2	1.67	0.76
1:k:813:ALA:O	1:k:815:PRO:HD3	1.84	0.76
1:F:381:PRO:HA	1:F:405:THR:CG2	2.16	0.76
1:H:11:PRO:HA	1:H:38:GLN:HA	1.65	0.76
1:I:234:ASN:O	1:I:235:PHE:HB3	1.86	0.76
1:K:167:VAL:HG22	1:K:201:VAL:HA	1.66	0.76
1:L:332:LEU:HD21	1:L:407:MET:CB	2.16	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:d:19:LEU:HA	1:d:32:PRO:CB	2.14	0.76
1:d:176:LEU:HD13	1:d:209:PHE:CD1	2.19	0.76
1:k:115:VAL:O	1:k:118:ASN:HB3	1.86	0.76
1:l:130:GLU:H	1:l:137:VAL:HG13	1.50	0.76
1:l:382:LEU:HD13	1:l:387:GLY:HA2	1.67	0.76
1:C:11:PRO:HA	1:C:38:GLN:HA	1.66	0.76
1:E:495:PHE:HB3	1:E:514:LEU:HD11	1.66	0.76
1:G:459:SER:HB3	1:G:488:THR:HG22	1.65	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:419:LEU:HD22	1:a:422:GLY:H	1.49	0.76
1:b:90:ILE:HD12	1:b:154:GLN:HG2	1.66	0.76
1:c:125:ALA:HB3	1:c:140:GLY:HA2	1.66	0.76
1:e:18:VAL:H	1:e:48:VAL:HG13	1.51	0.76
1:f:221:LEU:HD22	1:f:256:THR:HG21	1.66	0.76
1:k:14:HIS:HB3	1:k:56:ARG:HG3	1.66	0.76
1:k:132:LYS:HZ2	1:k:152:ILE:CD1	1.99	0.76
1:B:381:PRO:CA	1:B:405:THR:HG22	2.14	0.76
1:E:205:LEU:HD22	1:E:211:GLU:HB2	1.68	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:HD13	1:J:284:ILE:H	1.51	0.76
1:J:332:LEU:HB2	1:J:377:ARG:HB3	1.67	0.76
1:J:575:ILE:HD12	1:J:603:VAL:HG13	1.68	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:5:GLU:HG2	1:b:43:VAL:HG21	1.65	0.76
1:b:459:SER:CB	1:b:488:THR:HG22	2.16	0.76
1:d:785:GLN:HA	1:e:790:VAL:HG21	1.67	0.76
1:f:176:LEU:HD13	1:f:209:PHE:HD1	1.49	0.76
1:i:281:TYR:CE1	1:i:321:GLN:HB2	2.21	0.76
1:k:1:MET:CE	1:k:47:PRO:HB3	2.15	0.76
1:k:8:ILE:HD13	1:k:8:ILE:H	1.50	0.76
1:k:600:ARG:NH1	1:k:622:ALA:HB3	2.01	0.76
1:B:304:GLY:H	1:B:306:LYS:NZ	1.84	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: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:b:49:ARG:NH1	1:c:10:ILE:HG23	1.97	0.76
1:i:154:GLN:HG3	1:i:155:LYS:HG3	1.68	0.76
1:m:180:LYS:C	1:m:182:CYS:H	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1:MET:HE3	1:G:47:PRO:HB3	1.68	0.75
1:H:481:VAL:HG11	1:H:487:VAL:CG1	2.15	0.75
1:I:745:LYS:HG3	1:J:753:ILE:CD1	2.16	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
1:g:18:VAL:CG1	1:g:48:VAL:HG22	2.15	0.75
1:A:729:ARG:HH11	1:A:729:ARG:HB2	1.51	0.75
1:C:1:MET:CE	1:C:47:PRO:HB3	2.16	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: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:J:759:LEU:HD21	1:K:765:VAL:HG22	1.68	0.75
1:K:123:LEU:HD11	1:K:143:TRP:CD1	2.22	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:c:239:ARG:NH2	1:c:257:GLU:HG2	2.01	0.75
1:f:182:CYS:SG	1:f:208:VAL:HG21	2.26	0.75
1:j:130:GLU:H	1:j:137:VAL:HG13	1.49	0.75
1:m:19:LEU:HA	1:m:32:PRO:HB3	1.66	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:C:283:VAL:HG22	1:C:301:VAL:HG12	1.68	0.75
1:E:394:LYS:HG2	1:F:329:GLN:HG3	1.69	0.75
1:I:176:LEU:HD13	1:I:209:PHE:CD1	2.20	0.75
1:J:332:LEU:HD21	1:J:407:MET:HB3	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:334:LEU:HD12	1:b:377:ARG:NH2	2.00	0.75
1:d:121:LEU:HB2	1:d:145:PHE:HB3	1.66	0.75
1:d:332:LEU:HB2	1:d:377:ARG:HB3	1.67	0.75
1:d:529:ILE:C	1:d:529:ILE:HD12	2.12	0.75
1:f:459:SER:HB3	1:f:488:THR:CG2	2.16	0.75
1:k:221:LEU:HD21	1:k:256:THR:CG2	2.14	0.75
1:k:260:VAL:HA	1:k:264:TYR:H	1.51	0.75
1:l:70:GLN:HB3	1:l:104:VAL:O	1.86	0.75
1:l:115:VAL:H	1:l:118:ASN:ND2	1.80	0.75
1:C:45:PHE:HB3	1:C:47:PRO:HD2	1.68	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: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:c:239:ARG:HH21	1:c:257:GLU:HG2	1.51	0.75
1:c:326:LEU:HD21	1:c:333:LEU:HG	1.66	0.75
1:g:327:SER:CB	1:g:331:GLY:HA3	2.14	0.75
1:k:729:ARG:HH11	1:k:729:ARG:HB2	1.52	0.75
1:E:273:ILE:HD13	1:E:316:LEU:HD11	1.68	0.75
1:E:387:GLY:HA3	1:E:402:ILE:HG22	1.67	0.75
1:F:335:LYS:HD3	1:F:359:ILE:HD11	1.68	0.75
1:F:653:ALA:CB	1:G:662:ILE:HD11	2.17	0.75
1:J:281:TYR:CE1	1:J:321:GLN:HB2	2.22	0.75
1:N:284:ILE:HD13	1:N:284:ILE:H	1.52	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:e:9:ARG:NH1	1:e:36:ILE:HA	2.02	0.75
1:i:151:TYR:CD2	1:i:152:ILE:HD13	2.22	0.75
1:j:19:LEU:HD23	1:j:32:PRO:HB2	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:K:19:LEU:HA	1:K:32:PRO:CB	2.17	0.75
1:M:130:GLU:HA	1:M:137:VAL:HG13	1.68	0.75
1:O:154:GLN:HG3	1:O:155:LYS:HG3	1.68	0.75
1:O:180:LYS:C	1:O:182:CYS:N	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:i:332:LEU:HD21	1:i:407:MET:HB3	1.66	0.75
1:j:7:ILE:HD13	1:j:41:GLU:OE1	1.86	0.75
1:m:5:GLU:HG2	1:m:43:VAL:CG2	2.15	0.75
1:A:171:ASN:O	1:A:216:VAL:HA	1.85	0.75
1:E:176:LEU:HD13	1:E:209:PHE:CD1	2.20	0.75
1:F:284:ILE:HD13	1:F:284:ILE:H	1.47	0.75
1:J:73:VAL:H	1:J:84:ARG:HB2	1.51	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: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:HD13	1:W:284:ILE:H	1.50	0.75
1:W:417:LYS:O	1:W:418:GLU:HB2	1.85	0.75
1:X:337:LEU:HD22	1:X:357:TRP:CZ3	2.19	0.75
1:a:452:ARG:HG3	1:a:452:ARG:HH11	1.50	0.75
1:f:288:MET:HE1	1:f:312:PRO:HG2	1.67	0.75
1:m:10:ILE:HD12	1:m:10:ILE:H	1.51	0.75
1:A:790:VAL:HG21	1:m:785:GLN:HA	1.67	0.75
1:H:284:ILE:HD13	1:H:284:ILE:H	1.51	0.75
1:J:221:LEU:CD2	1:J:256:THR:CG2	2.64	0.75
1:J:252:THR:H	1:J:254:GLN:NE2	1.85	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:b:380:ILE:HD12	1:b:388:ILE:HD13	1.67	0.75
1:d:262:ASP:HB3	1:d:264:TYR:CE1	2.21	0.75
1:e:67:ARG:HH21	1:e:107:LYS:HA	1.52	0.75
1:f:45:PHE:HB3	1:f:47:PRO:HD2	1.68	0.75
1:h:85:HIS:NE2	1:h:102:GLY:HA3	2.02	0.75
1:i:332:LEU:HB2	1:i:377:ARG:HB3	1.68	0.75
1:k:11:PRO:HA	1:k:38:GLN:HA	1.69	0.75
1:k:230:ARG:HH11	1:k:230:ARG:HB3	1.51	0.75
1:D:653:ALA:CB	1:E:662:ILE:CD1	2.62	0.75
1:F:221:LEU:HD22	1:F:256:THR:HG21	1.66	0.75
1:H:417:LYS:O	1:H:418:GLU:HB2	1.85	0.75
1:J:36:ILE:HD11	1:J:58:TYR:HE1	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:14:HIS:HB3	1:K:56:ARG:HG3	1.67	0.75
1:L:154:GLN:HG3	1:L:155:LYS:HE3	1.68	0.75
1:M:180:LYS:C	1:M:182:CYS:N	2.42	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:H	1:S:60:ILE:HD12	1.51	0.75
1:c:332:LEU:HD21	1:c:407:MET:HB3	1.68	0.75
1:c:600:ARG:NH1	1:c:622:ALA:HB3	2.02	0.75
1:m:113:GLN:HG2	1:m:150:THR:HB	1.69	0.75
1:A:54:PRO:HB2	1:A:55:PRO:HD3	1.67	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:K:330:GLN:HB3	1:K:379:ALA:HB3	1.68	0.74
1:N:481:VAL:HG11	1:N:487:VAL:HG13	1.68	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:338:GLN:HB3	1:a:339:PRO:HD3	1.69	0.74
1:a:340:LEU:HG	1:a:353:ALA:H	1.51	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:P:260:VAL:HB	1:P:263:VAL:HA	1.68	0.74
1:S:529:ILE:C	1:S:529:ILE:HD12	2.12	0.74
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:Z:704:LYS:HD2	1:a:712:MET:HB3	1.70	0.74
1:a:60:ILE:HG12	1:a:92:LEU:O	1.87	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	1.85	0.74
1:E:185:ARG:HG3	1:E:206:PRO:HB3	1.69	0.74
1:F:19:LEU:HA	1:F:32:PRO:HB3	1.70	0.74
1:G:14:HIS:HB3	1:G:56:ARG:HB2	1.70	0.74
1:G:36:ILE:O	1:G:36:ILE:CD1	2.32	0.74
1:G:771:ILE:HD13	1:G:774:ARG:NH1	2.01	0.74
1:M:14:HIS:HB3	1:M:56:ARG:CB	2.17	0.74
1:M:529:ILE:HD12	1:M:583:VAL:HG11	1.70	0.74
1:P:19:LEU:HA	1:P:32:PRO:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:9:ARG:HH12	1:W:36:ILE:HA	1.52	0.74
1:W:328:GLU:HA	1:W:328:GLU:OE1	1.85	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:a:106:GLU:O	1:a:107:LYS:HD2	1.87	0.74
1:c:260:VAL:HA	1:c:264:TYR:H	1.50	0.74
1:j:338:GLN:CB	1:j:339:PRO:HD3	2.16	0.74
1:k:167:VAL:HG22	1:k:201:VAL:HA	1.68	0.74
1:k:224:LYS:O	1:k:272:PRO:HD3	1.87	0.74
1:H:28:VAL:HG12	1:H:30:VAL:HG23	1.68	0.74
1:J:251:VAL:HA	1:J:254:GLN:HE22	1.52	0.74
1:J:326:LEU:HD21	1:J:333:LEU:HG	1.70	0.74
1:K:536:ARG:HB2	1:K:646:VAL:HB	1.67	0.74
1:O:109:ILE:HD12	1:O:153:PRO:HB2	1.68	0.74
1:P:1:MET:CE	1:P:47:PRO:HB3	2.17	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:d:132:LYS:HZ2	1:d:152:ILE:CD1	2.00	0.74
1:f:452:ARG:HG3	1:f:452:ARG:NH1	1.83	0.74
1:f:601:MET:CG	1:f:622:ALA:HB2	2.16	0.74
1:j:384:GLN:H	1:j:384:GLN:NE2	1.86	0.74
1:k:337:LEU:HD22	1:k:357:TRP:HZ3	1.52	0.74
1:m:251:VAL:HG23	1:m:254:GLN:NE2	2.02	0.74
1:A:337:LEU:HD22	1:A:357:TRP:HZ3	1.52	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:415:TRP:CZ3	1:F:417:LYS:HB3	2.23	0.74
1:I:332:LEU:HB2	1:I:377:ARG:HB3	1.69	0.74
1:L:45:PHE:HB3	1:L:47:PRO:HD2	1.69	0.74
1:S:785:GLN:HA	1:T:790:VAL:HG21	1.69	0.74
1:T:382:LEU:N	1:T:405:THR:HG22	2.03	0.74
1:Z:180:LYS:C	1:Z:182:CYS:H	1.96	0.74
1:d:459:SER:HB3	1:d:488:THR:HG22	1.69	0.74
1:f:8:ILE:HG22	1:f:40:ASN:ND2	2.02	0.74
1:k:654:LEU:CD1	1:l:662:ILE:CD1	2.40	0.74
1:l:227:LEU:HB3	1:l:251:VAL:HG12	1.69	0.74
1:m:382:LEU:H	1:m:405:THR:HG22	1.52	0.74
1:K:529:ILE:HD13	1:K:583:VAL:HG11	1.68	0.74
1:M:394:LYS:HZ3	1:N:329:GLN:HB2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:338:GLN:CB	1:b:339:PRO:HD3	2.18	0.74
1:c:759:LEU:HD21	1:d:765:VAL:HG22	1.69	0.74
1:d:77:ILE:HG13	1:d:80:GLN:H	1.52	0.74
1:k:523:PHE:CE1	1:k:568:VAL:HG12	2.23	0.74
1:A:511:ARG:HH22	1:A:517:LEU:HD11	1.51	0.74
1:A:580:ARG:HH22	1:B:595:SER:HB2	1.51	0.74
1:E:381:PRO:HA	1:E:405:THR:HG22	1.69	0.74
1:F:24:ASN:HD22	1:F:30:VAL:HB	1.52	0.74
1:H:221:LEU:HD22	1:H:256:THR:HG21	1.68	0.74
1:M:65:VAL:HG12	1:M:110:THR:HG22	1.70	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: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:f:766:ARG:O	1:f:770:LEU:HB2	1.88	0.74
1:g:759:LEU:HD11	1:h:764:LYS:HB3	1.69	0.74
1:h:330:GLN:CG	1:h:379:ALA:HB3	2.10	0.74
1:l:481:VAL:HG11	1:l:487:VAL:HG13	1.70	0.74
1:A:174:LEU:HB2	1:A:198:VAL:HB	1.70	0.74
1:C:106:GLU:O	1:C:107:LYS:HD2	1.86	0.74
1:C:785:GLN:HA	1:D:790:VAL:HG21	1.68	0.74
1:D:382:LEU:HB2	1:D:404:SER:O	1.87	0.74
1:E:36:ILE:HD13	1:E:36:ILE:O	1.87	0.74
1:E:176:LEU:CD1	1:E:209:PHE:HD1	2.00	0.74
1:G:113:GLN:HG2	1:G:150:THR:HB	1.68	0.74
1:K:121:LEU:HB2	1:K:145:PHE:HB3	1.67	0.74
1:K:227:LEU:HB2	1:K:251:VAL:CG1	2.18	0.74
1:T:115:VAL:O	1:T:118:ASN:HB3	1.86	0.74
1:U:284:ILE:H	1:U:284:ILE:HD13	1.52	0.74
1:U:490:ASP:CG	1:U:491:PRO:HD2	2.12	0.74
1:b:57:HIS:HB2	1:b:59:CYS:SG	2.28	0.74
1:d:19:LEU:HD23	1:d:32:PRO:HB2	1.70	0.74
1:d:60:ILE:HD11	1:d:95:ASP:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:687:ARG:HG2	1:h:691:GLN:HE21	1.51	0.74
1:i:587:THR:HG23	1:i:590:ASP:HB3	1.70	0.74
1:k:287:PRO:HA	1:k:314:GLU:OE2	1.87	0.74
1:l:109:ILE:HD12	1:l:153:PRO:CG	2.17	0.74
1:D:419:LEU:CG	1:D:420:PRO:HD2	2.09	0.74
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:K:11:PRO:HA	1:K:38:GLN:HA	1.67	0.74
1:K:18:VAL:H	1:K:48:VAL:HG13	1.53	0.74
1:K:184:ASP:HB3	1:K:187:GLY:O	1.87	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:b:134:GLY:O	1:b:135:ASP:HB2	1.88	0.74
1:e:327:SER:HB2	1:e:331:GLY:HA2	1.68	0.74
1:f:182:CYS:SG	1:f:208:VAL:CG2	2.76	0.74
1:h:794:LYS:O	1:h:798:MET:HG2	1.88	0.74
1:k:19:LEU:HA	1:k:32:PRO:HB3	1.69	0.74
1:l:130:GLU:CB	1:l:136:LYS:HA	2.18	0.74
1:C:600:ARG:NH1	1:C:622:ALA:HB3	2.02	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: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:332:LEU:HD21	1:a:407:MET:HB2	1.69	0.74
1:c:697:SER:HA	1:d:706:LEU:HD23	1.68	0.74
1:g:72:SER:HB3	1:g:84:ARG:HH21	1.53	0.74
1:h:19:LEU:HD23	1:h:32:PRO:HB2	1.70	0.74
1:i:394:LYS:HA	1:j:329:GLN:NE2	2.02	0.74
1:j:5:GLU:HG2	1:j:43:VAL:CG2	2.18	0.74
1:l:419:LEU:HG	1:l:420:PRO:HD2	1.67	0.74
1:l:564:VAL:HG21	1:l:631:ASN:ND2	2.03	0.74
1:m:601:MET:HG2	1:m:622:ALA:HB2	1.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:14:HIS:CB	1:M:56:ARG:HB2	2.18	0.73
1:O:281:TYR:HE1	1:O:321:GLN:HB2	1.53	0.73
1:U:452:ARG:HG3	1:U:452:ARG:HH11	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:f:90:ILE:HD13	1:f:90:ILE:N	2.03	0.73
1:i:326:LEU:HD21	1:i:333:LEU:HG	1.69	0.73
1:m:8:ILE:H	1:m:8:ILE:HD13	1.53	0.73
1:m:419:LEU:CG	1:m:420:PRO:HD2	2.10	0.73
1:A:152:ILE:HD12	1:A:152:ILE:H	1.51	0.73
1:D:330:GLN:HB3	1:D:379:ALA:HB3	1.69	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
1:J:381:PRO:CA	1:J:405:THR:HG22	2.18	0.73
1:L:70:GLN:HB3	1:L:104:VAL:H	1.53	0.73
1:V:287:PRO:HA	1:V:314:GLU:OE2	1.88	0.73
1:a:180:LYS:C	1:a:182:CYS:N	2.46	0.73
1:h:469:GLN:HB3	1:h:496:THR:HG21	1.70	0.73
1:i:45:PHE:HB3	1:i:47:PRO:HD2	1.70	0.73
1:k:115:VAL:HA	1:k:147:GLY:O	1.88	0.73
1:E:120:ALA:HB3	1:E:162:ILE:HG13	1.69	0.73
1:I:3:THR:CG2	1:I:50:MET:HE1	2.19	0.73
1:I:649:ARG:HH21	1:J:655:GLN:HG2	1.54	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:199:ARG:NH2	1:c:258:ALA:HB3	2.03	0.73
1:g:326:LEU:HD21	1:g:333:LEU:HG	1.69	0.73
1:j:70:GLN:HB3	1:j:104:VAL:O	1.88	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:G:543:TYR:HE2	1:G:575:ILE:HG21	1.50	0.73
1:H:394:LYS:HG2	1:I:329:GLN:CG	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:f:261:PRO:HD2	1:f:264:TYR:HB2	1.69	0.73
1:h:326:LEU:HD21	1:h:333:LEU:HG	1.71	0.73
1:i:387:GLY:HA3	1:i:402:ILE:HG22	1.70	0.73
1:l:182:CYS:O	1:l:190:ARG:HB2	1.88	0.73
1:A:11:PRO:HA	1:A:38:GLN:HA	1.67	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:L:260:VAL:HA	1:L:264:TYR:H	1.53	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:k:77:ILE:HG13	1:k:79:GLY:H	1.53	0.73
1:m:217:ASP:HB2	1:m:258:ALA:HA	1.70	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: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:16:ILE:HA	1:R:34:THR:OG1	1.88	0.73
1:R:19:LEU:HA	1:R:32:PRO:HB3	1.69	0.73
1:R:511:ARG:NH2	1:R:517:LEU:HD11	2.03	0.73
1:S:154:GLN:HG3	1:S:155:LYS:HZ2	1.53	0.73
1:X:67:ARG:HH21	1:X:107:LYS:HA	1.53	0.73
1:k:7:ILE:HD13	1:k:41:GLU:OE1	1.88	0.73
1:l:654:LEU:HD13	1:m:662:ILE:HD13	1.69	0.73
1:B:185:ARG:HH22	1:B:207:ALA:HB3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:332:LEU:HD21	1:H:407:MET:HB2	1.68	0.73
1:I:154:GLN:HG3	1:I:155:LYS:HG3	1.69	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:W:522:PHE:C	1:W:522:PHE:CD2	2.67	0.73
1:X:130:GLU:HB2	1:X:136:LYS:HA	1.70	0.73
1:g:587:THR:HG23	1:g:590:ASP:CB	2.19	0.73
1:B:327:SER:CB	1:B:331:GLY:HA3	2.18	0.73
1:C:14:HIS:CB	1:C:56:ARG:HB2	2.16	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:K:729:ARG:HB2	1:K:729:ARG:NH1	2.04	0.73
1:M:45:PHE:HB3	1:M:47:PRO:HD2	1.70	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:481:VAL:HG11	1:a:487:VAL:HG13	1.70	0.73
1:c:337:LEU:HD22	1:c:357:TRP:HZ3	1.53	0.73
1:g:5:GLU:HG2	1:g:43:VAL:HG21	1.71	0.73
1:g:65:VAL:HA	1:g:110:THR:HG22	1.70	0.73
1:g:73:VAL:N	1:g:84:ARG:HB2	2.01	0.73
1:i:132:LYS:NZ	1:i:152:ILE:CD1	2.43	0.73
1:j:5:GLU:CG	1:j:43:VAL:HG21	2.19	0.73
1:m:338:GLN:HB3	1:m:339:PRO:HD3	1.70	0.73
1:B:794:LYS:O	1:B:798:MET:HG2	1.88	0.73
1:J:180:LYS:C	1:J:182:CYS:H	1.96	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:S:425:GLU:CD	1:S:425:GLU:H	1.96	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:221:LEU:CD2	1:a:256:THR:HG21	2.19	0.73
1:b:785:GLN:HA	1:c:790:VAL:HG21	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:476:LYS:CE	1:e:485:GLU:HG3	2.18	0.73
1:e:109:ILE:HD12	1:e:153:PRO:HG2	1.70	0.73
1:f:65:VAL:HA	1:f:110:THR:HG22	1.69	0.73
1:f:311:GLN:HB3	1:f:312:PRO:HD2	1.68	0.73
1:h:70:GLN:HB3	1:h:104:VAL:H	1.54	0.73
1:h:381:PRO:CA	1:h:405:THR:HG22	2.15	0.73
1:j:19:LEU:HA	1:j:32:PRO:HB2	1.71	0.73
1:k:262:ASP:HB3	1:k:264:TYR:CE1	2.23	0.73
1:E:115:VAL:H	1:E:118:ASN:ND2	1.86	0.73
1:I:109:ILE:HD12	1:I:153:PRO:HB2	1.69	0.73
1:L:419:LEU:HG	1:L:420:PRO:HD2	1.69	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:a:100:TYR:HB3	1:a:101:PRO:CD	2.18	0.73
1:c:469:GLN:HB3	1:c:496:THR:CG2	2.18	0.73
1:e:221:LEU:CD2	1:e:256:THR:CG2	2.66	0.73
1:f:284:ILE:HD13	1:f:284:ILE:H	1.53	0.73
1:g:472:ASP:HA	1:g:493:GLU:HB3	1.69	0.73
1:h:130:GLU:HB2	1:h:136:LYS:HA	1.69	0.73
1:l:75:PHE:CE2	1:l:77:ILE:HG23	2.23	0.73
1:m:155:LYS:HZ2	1:m:155:LYS:HB2	1.53	0.73
1:B:490:ASP:CG	1:B:491:PRO:HD2	2.14	0.72
1:B:595:SER:O	1:B:599:ILE:CD1	2.30	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
1:I:771:ILE:HD13	1:I:774:ARG:HH12	1.54	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:e:9:ARG:CZ	1:e:15:TYR:HB3	2.19	0.72
1:g:419:LEU:HD12	1:g:494:GLN:NE2	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:653:ALA:HB3	1:j:662:ILE:HD13	1.71	0.72
1:j:14:HIS:HB3	1:j:56:ARG:HB2	1.69	0.72
1:j:327:SER:HB2	1:j:331:GLY:HA3	1.71	0.72
1:k:501:SER:HB3	1:k:507:ARG:O	1.88	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:284:ILE:H	1:E:284:ILE:HD13	1.53	0.72
1:G:28:VAL:HG12	1:G:30:VAL:HG23	1.70	0.72
1:J:11:PRO:HA	1:J:38:GLN:HA	1.69	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:P:180:LYS:C	1:P:182:CYS:H	1.96	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:e:571:ALA:O	1:e:575:ILE:HG12	1.90	0.72
1:f:8:ILE:HG22	1:f:40:ASN:HD21	1.54	0.72
1:h:227:LEU:HB2	1:h:251:VAL:CG1	2.18	0.72
1:j:115:VAL:H	1:j:118:ASN:HD22	1.34	0.72
1:j:154:GLN:HG3	1:j:155:LYS:HZ2	1.55	0.72
1:A:221:LEU:HD22	1:A:256:THR:HB	1.71	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:H:338:GLN:CB	1:H:339:PRO:HD3	2.18	0.72
1:H:745:LYS:HG3	1:I:753:ILE:HD13	1.69	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:M:19:LEU:HA	1:M:32:PRO:CB	2.19	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:S:115:VAL:N	1:S:118:ASN:HD22	1.86	0.72
1:S:601:MET:HG2	1:S:622:ALA:HB2	1.71	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:f:22:ASN:ND2	1:g:39:ASP:HB3	2.04	0.72
1:g:45:PHE:HB3	1:g:47:PRO:HD2	1.70	0.72
1:j:151:TYR:CD2	1:j:152:ILE:HD13	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:4:GLU:OE2	1:m:6:ALA:HB2	1.88	0.72
1:m:19:LEU:HA	1:m:32:PRO:CB	2.18	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:G:327:SER:CB	1:G:331:GLY:HA3	2.18	0.72
1:J:45:PHE:HB3	1:J:47:PRO:HD2	1.69	0.72
1:J:109:ILE:HD12	1:J:153:PRO:CB	2.19	0.72
1:K:653:ALA:HB1	1:L:662:ILE:HD12	1.67	0.72
1:K:767:GLU:O	1:K:771:ILE:HD13	1.89	0.72
1:M:9:ARG:NH1	1:M:36:ILE:HA	2.03	0.72
1:M:184:ASP:HB2	1:M:189:GLY:O	1.88	0.72
1:N:337:LEU:HG	1:N:353:ALA:O	1.90	0.72
1:P:28:VAL:HG12	1:P:30:VAL:HG23	1.69	0.72
1:P:252:THR:HG23	1:P:252:THR:O	1.88	0.72
1:R:196:TRP:CE3	1:R:196:TRP:HA	2.24	0.72
1:U:690:ARG:NH2	1:V:698:GLU:HG3	2.04	0.72
1:X:183:PHE:HE2	1:X:188:LYS:HA	1.54	0.72
1:b:220:ILE:HD12	1:b:252:THR:HA	1.71	0.72
1:h:481:VAL:HG11	1:h:487:VAL:CG1	2.18	0.72
1:k:239:ARG:HH21	1:k:257:GLU:HG2	1.52	0.72
1:l:28:VAL:HG12	1:l:30:VAL:HG23	1.71	0.72
1:A:221:LEU:HD21	1:A:256:THR:CG2	2.19	0.72
1:B:175:ARG:HE	1:B:263:VAL:HG22	1.55	0.72
1:B:523:PHE:CE1	1:B:568:VAL:HG12	2.25	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:77:ILE:CG1	1:D:80:GLN:O	2.32	0.72
1:D:154:GLN:HG3	1:D:155:LYS:HG3	1.69	0.72
1:L:419:LEU:HD23	1:L:421:SER:H	1.53	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:36:ILE:HG21	1:Q:99:LEU:HD13	1.72	0.72
1:Q:184:ASP:HB3	1:Q:187:GLY:O	1.90	0.72
1:T:796:LYS:HA	1:T:799:THR:HG22	1.71	0.72
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:485:GLU:HG2	1:a:486:LEU:H	1.52	0.72
1:d:115:VAL:H	1:d:118:ASN:HD22	1.38	0.72
1:e:28:VAL:HG12	1:e:30:VAL:HG23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:469:GLN:HB3	1:e:496:THR:HG21	1.72	0.72
1:g:579:VAL:HG13	1:g:599:ILE:CD1	2.19	0.72
1:k:121:LEU:HB2	1:k:145:PHE:HB3	1.72	0.72
1:m:182:CYS:O	1:m:190:ARG:HB2	1.90	0.72
1:B:472:ASP:HA	1:B:493:GLU:HB3	1.72	0.72
1:C:338:GLN:CB	1:C:339:PRO:HD3	2.19	0.72
1:F:419:LEU:HD23	1:F:421:SER:H	1.55	0.72
1:I:116:LEU:CB	1:I:117:PRO:HD2	2.20	0.72
1:K:14:HIS:HB2	1:K:56:ARG:HB2	1.69	0.72
1:L:14:HIS:HB3	1:L:56:ARG:CG	2.20	0.72
1:L:109:ILE:CD1	1:L:153:PRO:CG	2.67	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:a:19:LEU:HD23	1:a:32:PRO:HB2	1.70	0.72
1:a:472:ASP:HA	1:a:493:GLU:HB3	1.71	0.72
1:f:109:ILE:CD1	1:f:153:PRO:HG2	2.17	0.72
1:h:239:ARG:HH21	1:h:257:GLU:HG2	1.52	0.72
1:h:380:ILE:H	1:h:380:ILE:HD12	1.55	0.72
1:j:654:LEU:HD12	1:k:662:ILE:HG21	1.71	0.72
1:k:543:TYR:CE2	1:k:575:ILE:HG21	2.25	0.72
1:m:332:LEU:HD21	1:m:407:MET:HB2	1.71	0.72
1:B:236:ARG:HB3	1:B:236:ARG:NH1	2.04	0.72
1:C:109:ILE:CD1	1:C:153:PRO:HG2	2.20	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:J:130:GLU:CB	1:J:136:LYS:HA	2.19	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:M:338:GLN:HB3	1:M:339:PRO:HD3	1.71	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:c:67:ARG:HH21	1:c:107:LYS:HA	1.53	0.72
1:c:221:LEU:HD22	1:c:256:THR:HG21	1.70	0.72
1:d:109:ILE:CD1	1:d:153:PRO:HG2	2.19	0.72
1:h:332:LEU:HB2	1:h:377:ARG:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:115:VAL:O	1:i:118:ASN:HB3	1.89	0.72
1:j:28:VAL:HG12	1:j:30:VAL:HG23	1.71	0.72
1:k:176:LEU:HD13	1:k:209:PHE:HD1	1.54	0.72
1:k:654:LEU:HD11	1:l:662:ILE:HD13	0.74	0.72
1:l:4:GLU:OE2	1:l:6:ALA:HB2	1.88	0.72
1:l:3:THR:HG22	1:l:50:MET:CE	2.19	0.72
1:l:327:SER:CB	1:l:331:GLY:HA3	2.18	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:166:THR:HA	1:a:202:GLY:HA2	1.71	0.72
1:a:330:GLN:HB3	1:a:379:ALA:HB3	1.72	0.72
1:d:268:LEU:HD13	1:d:269:GLY:H	1.54	0.72
1:d:337:LEU:HD22	1:d:357:TRP:CZ3	2.23	0.72
1:f:230:ARG:HH11	1:f:230:ARG:HB3	1.55	0.72
1:g:273:ILE:HG21	1:g:316:LEU:HD11	1.70	0.72
1:h:273:ILE:HG21	1:h:316:LEU:HD11	1.72	0.72
1:h:381:PRO:HA	1:h:405:THR:CG2	2.16	0.72
1:k:221:LEU:CD2	1:k:256:THR:HG21	2.20	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:H:653:ALA:HB1	1:I:662:ILE:HD11	1.72	0.72
1:L:176:LEU:HB2	1:L:196:TRP:HB2	1.72	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:HD13	1:T:527:ILE:H	1.55	0.72
1:U:132:LYS:HZ2	1:U:152:ILE:HD12	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:j:384:GLN:H	1:j:384:GLN:HE21	1.36	0.72
1:l:36:ILE:HD13	1:l:36:ILE:O	1.89	0.72
1:m:221:LEU:HD21	1:m:256:THR:CG2	2.20	0.72
1:A:601:MET:HG2	1:A:622:ALA:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:130:GLU:H	1:B:137:VAL:HG22	1.55	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:M:331:GLY:O	1:M:360:ARG:HB2	1.89	0.72
1:O:654:LEU:HD12	1:P:662:ILE:HD12	1.72	0.72
1:P:523:PHE:CE1	1:P:568:VAL:HG12	2.25	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:e:116:LEU:HB3	1:e:117:PRO:HD2	1.72	0.72
1:e:120:ALA:O	1:e:161:GLU:HA	1.90	0.72
1:e:332:LEU:HD21	1:e:407:MET:HB3	1.70	0.72
1:f:185:ARG:HH22	1:f:207:ALA:HB3	1.55	0.72
1:g:785:GLN:HA	1:h:790:VAL:HG21	1.71	0.72
1:h:67:ARG:HH21	1:h:107:LYS:HA	1.55	0.72
1:h:359:ILE:HD13	1:h:359:ILE:H	1.55	0.72
1:k:332:LEU:HD21	1:k:407:MET:CB	2.20	0.72
1:A:394:LYS:HA	1:B:329:GLN:NE2	2.05	0.71
1:B:328:GLU:HG2	1:B:329:GLN:H	1.51	0.71
1:C:328:GLU:OE1	1:C:328:GLU:CA	2.33	0.71
1:C:527:ILE:HD13	1:C:529:ILE:CG2	2.20	0.71
1:H:19:LEU:HA	1:H:32:PRO:HB3	1.71	0.71
1:H:481:VAL:HG11	1:H:487:VAL:HG13	1.71	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:HG3	1:Q:452:ARG:HH11	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:b:217:ASP:HB2	1:b:258:ALA:HA	1.70	0.71
1:c:380:ILE:HD12	1:c:406:TYR:O	1.90	0.71
1:d:5:GLU:HG2	1:d:43:VAL:HG21	1.71	0.71
1:f:332:LEU:HD21	1:f:407:MET:HB3	1.71	0.71
1:j:130:GLU:N	1:j:137:VAL:HG13	2.05	0.71
1:j:221:LEU:HD22	1:j:256:THR:CB	2.19	0.71
1:l:16:ILE:HA	1:l:34:THR:OG1	1.89	0.71
1:A:4:GLU:OE2	1:A:6:ALA:HB2	1.91	0.71
1:E:14:HIS:CB	1:E:56:ARG:HB2	2.20	0.71
1:E:337:LEU:HD22	1:E:357:TRP:HZ3	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:196:TRP:HA	1:H:196:TRP:CE3	2.24	0.71
1:K:5:GLU:OE1	1:K:43:VAL:HG11	1.90	0.71
1:K:381:PRO:HA	1:K:405:THR:CG2	2.19	0.71
1:L:14:HIS:CB	1:L:56:ARG:HB2	2.20	0.71
1:L:24:ASN:ND2	1:L:30:VAL:HB	2.05	0.71
1:L:167:VAL:HG22	1:L:201:VAL:HA	1.71	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:176:LEU:HD13	1:P:209:PHE:HD1	1.53	0.71
1:P:185:ARG:NH2	1:P:207:ALA:HB3	2.04	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:H	1:W:384:GLN:NE2	1.88	0.71
1:Z:381:PRO:CA	1:Z:405:THR:HG22	2.20	0.71
1:b:252:THR:O	1:b:254:GLN:N	2.23	0.71
1:e:182:CYS:SG	1:e:208:VAL:CG2	2.78	0.71
1:e:327:SER:HB2	1:e:331:GLY:HA3	1.72	0.71
1:h:19:LEU:HA	1:h:32:PRO:HB3	1.71	0.71
1:h:125:ALA:HB1	1:h:128:ASP:HB3	1.71	0.71
1:h:128:ASP:OD1	1:h:131:ASP:HB3	1.89	0.71
1:m:115:VAL:H	1:m:118:ASN:HD22	1.36	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:H:337:LEU:HD22	1:H:357:TRP:CZ3	2.24	0.71
1:K:205:LEU:HD22	1:K:211:GLU:HB2	1.71	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:5:GLU:CG	1:R:43:VAL:HG21	2.19	0.71
1:R:273:ILE:HG21	1:R:316:LEU:HD11	1.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:481:VAL:HG11	1:Y:487:VAL:HG13	1.72	0.71
1:b:332:LEU:HB2	1:b:377:ARG:HB3	1.70	0.71
1:g:14:HIS:HB3	1:g:56:ARG:CB	2.21	0.71
1:i:587:THR:HG23	1:i:590:ASP:CB	2.19	0.71
1:j:182:CYS:O	1:j:190:ARG:HB2	1.90	0.71
1:j:481:VAL:HG11	1:j:487:VAL:HG13	1.73	0.71
1:j:490:ASP:CG	1:j:491:PRO:HD2	2.15	0.71
1:l:109:ILE:HD12	1:l:153:PRO:HG2	1.72	0.71
1:A:73:VAL:N	1:A:84:ARG:HB2	2.05	0.71
1:A:551:ASN:HB2	1:A:557:GLU:OE2	1.91	0.71
1:C:227:LEU:HB2	1:C:251:VAL:CG1	2.20	0.71
1:H:338:GLN:HB2	1:H:339:PRO:HD3	1.71	0.71
1:M:182:CYS:SG	1:M:208:VAL:HG21	2.30	0.71
1:M:384:GLN:H	1:M:384:GLN:HE21	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:f:9:ARG:HH12	1:f:36:ILE:HA	1.54	0.71
1:f:11:PRO:HA	1:f:38:GLN:HA	1.71	0.71
1:h:260:VAL:HA	1:h:264:TYR:H	1.56	0.71
1:j:4:GLU:OE2	1:j:6:ALA:HB2	1.90	0.71
1:l:338:GLN:CB	1:l:339:PRO:HD3	2.20	0.71
1:l:495:PHE:HB3	1:l:514:LEU:HD11	1.71	0.71
1:C:176:LEU:HB2	1:C:196:TRP:HB2	1.73	0.71
1:E:781:VAL:HG21	1:F:786:GLN:OE1	1.90	0.71
1:G:182:CYS:O	1:G:190:ARG:HB2	1.91	0.71
1:L:205:LEU:HD22	1:L:211:GLU:HB2	1.72	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:204:TYR:O	1:b:206:PRO:HD3	1.88	0.71
1:d:230:ARG:HH11	1:d:230:ARG:HB3	1.56	0.71
1:e:115:VAL:HA	1:e:147:GLY:O	1.90	0.71
1:j:14:HIS:NE2	1:j:16:ILE:HD11	2.05	0.71
1:m:11:PRO:HA	1:m:38:GLN:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:338:GLN:CB	1:m:339:PRO:HD3	2.20	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: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:O:485:GLU:HG2	1:O:486:LEU:N	2.02	0.71
1:Q:220:ILE:C	1:Q:222:THR:H	1.99	0.71
1:V:84:ARG:HH22	1:V:101:PRO:HD2	1.55	0.71
1:a:9:ARG:HH12	1:a:36:ILE:HA	1.55	0.71
1:d:328:GLU:HG3	1:d:329:GLN:H	1.54	0.71
1:h:419:LEU:HD23	1:h:421:SER:H	1.56	0.71
1:A:382:LEU:HD13	1:A:387:GLY:HA2	1.73	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:19:LEU:HA	1:E:32:PRO:CB	2.20	0.71
1:E:113:GLN:HG2	1:E:150:THR:HB	1.72	0.71
1:I:67:ARG:HH21	1:I:107:LYS:HA	1.55	0.71
1:J:398:VAL:N	1:K:384:GLN:OE1	2.22	0.71
1:K:221:LEU:CD2	1:K:256:THR:HG21	2.20	0.71
1:K:224:LYS:HA	1:K:272:PRO:HG3	1.72	0.71
1:L:5:GLU:HG2	1:L:43:VAL:CG2	2.20	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:M:419:LEU:CG	1:M:420:PRO:HD2	2.05	0.71
1:Q:9:ARG:NH1	1:Q:36:ILE:HA	2.03	0.71
1:Q:332:LEU:HD23	1:Q:358:LEU:HD11	1.73	0.71
1:R:319:GLY:C	1:R:320:ILE:HD13	2.14	0.71
1:U:653:ALA:HB3	1:V:662:ILE:CD1	2.21	0.71
1:V:654:LEU:HD12	1:W: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:a:623:ARG:HG3	1:a:624:ASP:H	1.55	0.71
1:a:653:ALA:HB3	1:b:662:ILE:CD1	2.20	0.71
1:e:109:ILE:HD12	1:e:153:PRO:CG	2.21	0.71
1:j:19:LEU:HA	1:j:32:PRO:CB	2.19	0.71
1:j:328:GLU:OE1	1:j:328:GLU:HA	1.90	0.71
1:l:381:PRO:CA	1:l:405:THR:HG22	2.16	0.71
1:B:184:ASP:HB2	1:B:189:GLY:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:ARG:NH2	1:B:257:GLU:HG2	2.05	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:b:395:THR:HG21	1:b:397:LYS:HE2	1.72	0.71
1:c:73:VAL:H	1:c:84:ARG:HB2	1.56	0.71
1:c:381:PRO:HA	1:c:405:THR:CG2	2.18	0.71
1:e:597:ARG:HG3	1:e:600:ARG:HH21	1.55	0.71
1:h:180:LYS:HD2	1:h:208:VAL:HG12	1.72	0.71
1:h:601:MET:HG2	1:h:622:ALA:HB2	1.73	0.71
1:m:130:GLU:HB2	1:m:136:LYS:HA	1.70	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:5:GLU:HG2	1:S:43:VAL:HG21	1.72	0.71
1:S:28:VAL:HG12	1:S:30:VAL:HG23	1.73	0.71
1:U:273:ILE:CD1	1:U:316:LEU:HD21	2.20	0.71
1:a:227:LEU:O	1:a:250:LEU:HA	1.90	0.71
1:d:100:TYR:HB3	1:d:101:PRO:HD2	1.73	0.71
1:i:474:ARG:HG3	1:i:492:GLU:HB2	1.72	0.71
1:k:182:CYS:O	1:k:190:ARG:HB2	1.91	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:727:GLU:HG3	1:F:735:ILE:HD13	1.73	0.71
1:F:359:ILE:HD13	1:F:359:ILE:N	2.06	0.71
1:K:234:ASN:N	1:K:234:ASN:HD22	1.88	0.71
1:L:330:GLN:HB3	1:L:379:ALA:HB3	1.72	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:77:ILE:HG13	1:T:79:GLY:H	1.55	0.71
1:T:239:ARG:NH2	1:T:257:GLU:HG2	2.05	0.71
1:Y:571:ALA:O	1:Y:575:ILE:HG12	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:332:LEU:HB2	1:Z:377:ARG:HB3	1.73	0.71
1:a:174:LEU:HB2	1:a:198:VAL:HB	1.73	0.71
1:d:36:ILE:HD12	1:d:37:ARG:N	2.05	0.71
1:e:472:ASP:HA	1:e:493:GLU:HB3	1.72	0.71
1:g:529:ILE:HD13	1:g:583:VAL:HG11	1.72	0.71
1:l:566:ASP:OD2	1:l:569:GLY:HA3	1.90	0.71
1:A:692:LYS:HG2	1:A:696:GLN:HE21	1.55	0.70
1:C:221:LEU:HD21	1:C:256:THR:HG21	1.69	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:N:73:VAL:H	1:N:84:ARG:HB2	1.56	0.70
1:N:268:LEU:HD13	1:N:269:GLY:H	1.55	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:481:VAL:O	1:S:481:VAL:HG13	1.91	0.70
1:T:243:HIS:HE2	1:T:249:TRP:CG	2.09	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:167:VAL:HG22	1:a:201:VAL:HA	1.73	0.70
1:c:273:ILE:HD13	1:c:316:LEU:HD11	1.73	0.70
1:j:152:ILE:CD1	1:j:152:ILE:H	2.04	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:L:495:PHE:HB3	1:L:514:LEU:HD11	1.73	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:d:481:VAL:HG11	1:d:487:VAL:CG1	2.20	0.70
1:e:332:LEU:HB2	1:e:377:ARG:HB3	1.71	0.70
1:g:284:ILE:H	1:g:284:ILE:HD13	1.55	0.70
1:i:19:LEU:HA	1:i:32:PRO:CB	2.20	0.70
1:l:224:LYS:HA	1:l:272:PRO:HG3	1.71	0.70
1:m:260:VAL:HA	1:m:264:TYR:H	1.53	0.70
1:A:61:VAL:HG13	1:A:65:VAL:HG23	1.73	0.70
1:A:383:ASP:HB2	1:A:386:GLU:HG2	1.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:337:LEU:HG	1:C:354:GLY:H	1.56	0.70
1:E:9:ARG:NH1	1:E:36:ILE:HA	2.05	0.70
1:G:129:PHE:O	1:G:137:VAL:HB	1.91	0.70
1:G:807:ILE:HD13	1:H:806:THR:HG21	1.74	0.70
1:J:36:ILE:HD13	1:J:36:ILE:C	2.16	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:M:490:ASP:CG	1:M:491:PRO:HD2	2.16	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
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:d:281:TYR:CE1	1:d:321:GLN:HB2	2.27	0.70
1:g:474:ARG:HG3	1:g:492:GLU:HB2	1.72	0.70
1:h:579:VAL:HG13	1:h:599:ILE:CD1	2.21	0.70
1:h:745:LYS:HG3	1:i:753:ILE:HD13	1.72	0.70
1:j:221:LEU:HD21	1:j:256:THR:CG2	2.21	0.70
1:k:234:ASN:ND2	1:k:245:THR:H	1.89	0.70
1:k:649:ARG:HH21	1:l:655:GLN:HG2	1.56	0.70
1:G:14:HIS:HB3	1:G:56:ARG:CB	2.21	0.70
1:G:338:GLN:HB2	1:G:339:PRO:CD	2.18	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:P:490:ASP:CG	1:P:491:PRO:HD2	2.15	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:a:221:LEU:HD22	1:a:256:THR:HB	1.72	0.70
1:b:19:LEU:HA	1:b:32:PRO:CB	2.21	0.70
1:k:5:GLU:HG2	1:k:43:VAL:CG2	2.20	0.70
1:B:5:GLU:HG2	1:B:43:VAL:HG21	1.72	0.70
1:B:60:ILE:H	1:B:60:ILE:HD12	1.55	0.70
1:D:227:LEU:HB2	1:D:251:VAL:CG1	2.22	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:K:65:VAL:HA	1:K:110:THR:HB	1.73	0.70
1:K:511:ARG:HH22	1:K:517:LEU:HD11	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:481:VAL:HG11	1:L:487:VAL:HG13	1.73	0.70
1:L:755:THR:HG21	1:M:761:ARG:HG2	1.74	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:18:VAL:CG1	1:V:48:VAL:HG22	2.18	0.70
1:V:332:LEU:HB2	1:V:377:ARG:HB3	1.72	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:d:115:VAL:O	1:d:118:ASN:HB3	1.90	0.70
1:d:205:LEU:HD22	1:d:211:GLU:HB2	1.74	0.70
1:f:511:ARG:HH22	1:f:517:LEU:HD11	1.56	0.70
1:g:11:PRO:HA	1:g:38:GLN:HA	1.71	0.70
1:i:73:VAL:N	1:i:84:ARG:HB2	2.04	0.70
1:i:221:LEU:CD2	1:i:256:THR:HG21	2.21	0.70
1:k:251:VAL:HG23	1:k:254:GLN:NE2	2.06	0.70
1:l:30:VAL:HG22	1:l:74:LEU:HD11	1.72	0.70
1:l:221:LEU:CD2	1:l:256:THR:HG21	2.21	0.70
1:E:469:GLN:HB3	1:E:496:THR:HG21	1.74	0.70
1:J:221:LEU:HD22	1:J:256:THR:CB	2.21	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:Y:4:GLU:OE2	1:Y:6:ALA:HB2	1.92	0.70
1:a:49:ARG:HH22	1:b:8:ILE:CD1	2.02	0.70
1:b:284:ILE:HD11	1:b:300:ARG:HB3	1.71	0.70
1:i:759:LEU:HD11	1:j:764:LYS:HB3	1.74	0.70
1:m:469:GLN:HB3	1:m:496:THR:HG21	1.72	0.70
1:C:19:LEU:HA	1:C:32:PRO:CB	2.22	0.70
1:E:390:VAL:HG12	1:E:408:LEU:HD23	1.74	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:217:ASP:HB2	1:a:258:ALA:HA	1.74	0.70
1:c:476:LYS:HE2	1:d:485:GLU:HG3	1.72	0.70
1:e:73:VAL:N	1:e:84:ARG:HB2	2.02	0.70
1:e:109:ILE:CD1	1:e:153:PRO:HG2	2.22	0.70
1:k:14:HIS:HB3	1:k:56:ARG:HB2	1.72	0.70
1:l:327:SER:HB2	1:l:331:GLY:HA3	1.72	0.70
1:l:340:LEU:HG	1:l:353:ALA:HB2	1.73	0.70
1:m:204:TYR:O	1:m:206:PRO:HD3	1.91	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:J:176:LEU:HB2	1:J:196:TRP:HB2	1.74	0.70
1:J:180:LYS:C	1:J:182:CYS:N	2.49	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: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:V:527:ILE:HD11	1:V:539:LEU:HB2	1.74	0.70
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:382:LEU:HD13	1:a:387:GLY:HA2	1.72	0.70
1:c:10:ILE:H	1:c:10:ILE:HD12	1.57	0.70
1:h:54:PRO:HB2	1:h:55:PRO:CD	2.15	0.70
1:h:359:ILE:HD13	1:h:359:ILE:N	2.05	0.70
1:i:517:LEU:H	1:i:517:LEU:HD12	1.57	0.70
1:m:116:LEU:CB	1:m:117:PRO:HD2	2.22	0.70
1:A:180:LYS:C	1:A:182:CYS:H	1.98	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:E:244:ARG:HD3	1:F:221:LEU:HD21	1.74	0.70
1:F:14:HIS:CB	1:F:56:ARG:HB2	2.22	0.70
1:F:30:VAL:HG22	1:F:74:LEU:HG	1.74	0.70
1:F:381:PRO:CA	1:F:405:THR:HG22	2.20	0.70
1:J:60:ILE:H	1:J:60:ILE:HD12	1.56	0.70
1:K:260:VAL:HB	1:K:263:VAL:HA	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:c:330:GLN:HB3	1:c:379:ALA:HB3	1.72	0.70
1:c:338:GLN:HB3	1:c:339:PRO:HD3	1.74	0.70
1:e:182:CYS:SG	1:e:208:VAL:HG21	2.32	0.70
1:f:90:ILE:HD12	1:f:154:GLN:HB2	1.73	0.70
1:j:14:HIS:HD1	1:j:36:ILE:HG22	1.55	0.70
1:H:61:VAL:HG13	1:H:65:VAL:HG23	1.74	0.70
1:Q:70:GLN:HG2	1:Q:104:VAL:HG12	1.74	0.70
1:Q:164:GLN:NE2	1:Q:204:TYR:HB3	2.07	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:V:755:THR:HG21	1:W:761:ARG:HG2	1.72	0.70
1:W:571:ALA:O	1:W:575:ILE:HD13	1.92	0.70
1:a:653:ALA:HB1	1:b:662:ILE:CD1	2.22	0.70
1:c:182:CYS:O	1:c:190:ARG:HB2	1.91	0.70
1:c:260:VAL:HB	1:c:263:VAL:HA	1.74	0.70
1:c:529:ILE:HG22	1:c:580:ARG:HB2	1.74	0.70
1:c:653:ALA:CB	1:d:662:ILE:HD13	2.14	0.70
1:e:45:PHE:HB3	1:e:47:PRO:HD2	1.74	0.70
1:g:221:LEU:CD2	1:g:256:THR:HG21	2.21	0.70
1:g:328:GLU:OE1	1:g:362:PRO:HA	1.92	0.70
1:i:284:ILE:HD13	1:i:284:ILE:H	1.54	0.70
1:j:285:LEU:CD1	1:j:315:ARG:HH11	2.05	0.70
1:k:394:LYS:HA	1:l:329:GLN:NE2	2.07	0.70
1:m:262:ASP:HB3	1:m:264:TYR:CE1	2.25	0.70
1:C:73:VAL:N	1:C:84:ARG:HB2	2.06	0.69
1:C:472:ASP:HA	1:C:493:GLU:CB	2.21	0.69
1:F:701:LYS:HG3	1:G:709:LEU:HD13	1.74	0.69
1:H:164:GLN:NE2	1:H:204:TYR:HB2	2.06	0.69
1:J:204:TYR:O	1:J:206:PRO:HD3	1.92	0.69
1:J:245:THR:HG22	1:K:219:VAL:HG11	1.74	0.69
1:J:813:ALA:O	1:J:815:PRO:HD3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:V:653:ALA:HB3	1:W:662:ILE:HD11	1.74	0.69
1:W:481:VAL:HG11	1:W:487:VAL:HG11	1.74	0.69
1:Z:284:ILE:HD13	1:Z:284:ILE:H	1.57	0.69
1:b:19:LEU:HA	1:b:32:PRO:HB3	1.74	0.69
1:c:14:HIS:NE2	1:c:16:ILE:HD11	2.07	0.69
1:h:154:GLN:HG3	1:h:155:LYS:HG3	1.73	0.69
1:i:331:GLY:O	1:i:360:ARG:HB2	1.92	0.69
1:j:132:LYS:HZ2	1:j:152:ILE:CD1	2.00	0.69
1:j:485:GLU:HG2	1:j:486:LEU:N	2.06	0.69
1:j:564:VAL:HG21	1:j:631:ASN:ND2	2.06	0.69
1:l:653:ALA:HB3	1:m:662:ILE:HD11	1.74	0.69
1:m:327:SER:HB2	1:m:331:GLY:HA3	1.72	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:I:73:VAL:N	1:I:84:ARG:HB2	2.07	0.69
1:J:273:ILE:HG21	1:J:316:LEU:HD11	1.73	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:W:176:LEU:HD13	1:W:209:PHE:CD1	2.27	0.69
1:Z:399:ARG:HH11	1:Z:399:ARG:HG2	1.55	0.69
1:a:120:ALA:HB2	1:a:164:GLN:NE2	2.05	0.69
1:j:221:LEU:HD21	1:j:256:THR:HG21	1.72	0.69
1:j:354:GLY:C	1:k:328:GLU:HG3	2.17	0.69
1:m:662:ILE:O	1:m:666:THR:HB	1.91	0.69
1:A:60:ILE:H	1:A:60:ILE:HD12	1.56	0.69
1:A:260:VAL:HA	1:A:264:TYR:H	1.57	0.69
1:A:338:GLN:CB	1:A:339:PRO:HD3	2.21	0.69
1:C:184:ASP:HB2	1:C:189:GLY:O	1.91	0.69
1:D:384:GLN:HE21	1:D:384:GLN:H	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:221:LEU:HD22	1:I:256:THR:HG21	1.72	0.69
1:J:536:ARG:HB2	1:J:646:VAL:HB	1.73	0.69
1:M:124:LYS:O	1:M:156:GLU:HB3	1.92	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:19:LEU:HA	1:a:32:PRO:CB	2.22	0.69
1:a:19:LEU:HA	1:a:32:PRO:HB3	1.74	0.69
1:a:54:PRO:HB2	1:a:55:PRO:CD	2.16	0.69
1:a:123:LEU:HG	1:a:143:TRP:HB2	1.74	0.69
1:a:196:TRP:HA	1:a:196:TRP:CE3	2.27	0.69
1:b:20:ASP:HB2	1:b:49:ARG:HD2	1.73	0.69
1:b:340:LEU:HD23	1:b:352:GLN:HA	1.74	0.69
1:c:166:THR:HA	1:c:202:GLY:HA2	1.73	0.69
1:f:130:GLU:H	1:f:137:VAL:HG13	1.57	0.69
1:h:654:LEU:HD12	1:i:662:ILE:HD12	1.74	0.69
1:i:179:ARG:NH2	1:i:209:PHE:O	2.26	0.69
1:j:327:SER:HB2	1:j:331:GLY:CA	2.21	0.69
1:k:771:ILE:HD13	1:k:774:ARG:NH1	2.06	0.69
1:l:14:HIS:CB	1:l:56:ARG:HB2	2.21	0.69
1:l:332:LEU:HB2	1:l:377:ARG:HB3	1.74	0.69
1:m:175:ARG:HG3	1:m:215:LEU:HD23	1.74	0.69
1:A:260:VAL:HB	1:A:263:VAL:HA	1.74	0.69
1:A:394:LYS:HG2	1:B:329:GLN:HG3	1.74	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:P:244:ARG:NH1	1:Q:221:LEU:HD11	2.08	0.69
1:Q:164:GLN:HB3	1:Q:204:TYR:HA	1.73	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:501:SER:HB3	1:a:507:ARG:O	1.92	0.69
1:g:67:ARG:HG2	1:g:108:ASP:HA	1.71	0.69
1:m:807:ILE:HD12	1:m:808:ARG:N	2.07	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:G:14:HIS:NE2	1:G:16:ILE:HD11	2.07	0.69
1:K:221:LEU:HD22	1:K:256:THR:HG21	1.74	0.69
1:O:130:GLU:HB2	1:O:136:LYS:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:U:281:TYR:CE1	1:U:321:GLN:HB2	2.26	0.69
1:U:580:ARG:HH22	1:V:595:SER:HB2	1.58	0.69
1:U:771:ILE:HD13	1:U:774:ARG:HD2	1.74	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:c:9:ARG:NH1	1:c:36:ILE:HA	2.07	0.69
1:e:3:THR:HG22	1:e:50:MET:HE1	1.73	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	2.22	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	1.74	0.69
1:k:90:ILE:HD12	1:k:154:GLN:HB2	1.73	0.69
1:k:332:LEU:HD23	1:k:358:LEU:HD11	1.74	0.69
1:l:529:ILE:HG22	1:l:580:ARG:HB2	1.74	0.69
1:m:221:LEU:HD22	1:m:256:THR:CB	2.22	0.69
1:B:14:HIS:CB	1:B:56:ARG:HB2	2.21	0.69
1:E:533:ASP:OD1	1:E:588:PHE:N	2.23	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:182:CYS:O	1:I:190:ARG:HB2	1.92	0.69
1:I:310:LEU:H	1:I:310:LEU:HD12	1.56	0.69
1:J:485:GLU:HG2	1:J:486:LEU:N	2.05	0.69
1:K:4:GLU:OE2	1:K:6:ALA:HB2	1.92	0.69
1:K:472:ASP:HA	1:K:493:GLU:HB3	1.74	0.69
1:N:708:GLU:HG3	1:O:716:VAL:HG11	1.73	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: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:d:11:PRO:HA	1:d:38:GLN:HA	1.75	0.69
1:d:276:LEU:HB2	1:d:280:HIS:ND1	2.07	0.69
1:g:19:LEU:HA	1:g:32:PRO:CB	2.21	0.69
1:k:15:TYR:HA	1:k:53:VAL:HB	1.73	0.69
1:k:60:ILE:HD13	1:k:93:ALA:HA	1.74	0.69
1:l:569:GLY:O	1:l:573:LYS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:727:GLU:HG3	1:C:735:ILE:HD13	1.75	0.69
1:C:19:LEU:HA	1:C:32:PRO:HB3	1.74	0.69
1:D:260:VAL:HB	1:D:263:VAL:HA	1.75	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
1:J:227:LEU:HB2	1:J:251:VAL:CG1	2.22	0.69
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:T:58:TYR:HD1	1:T:99:LEU:HD12	1.57	0.69
1:T:221:LEU:HD22	1:T:256:THR:CB	2.22	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:19:LEU:HA	1:Y:32:PRO:HB3	1.73	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:b:182:CYS:SG	1:b:208:VAL:HG23	2.33	0.69
1:b:260:VAL:HA	1:b:264:TYR:H	1.56	0.69
1:c:28:VAL:HG12	1:c:30:VAL:HG23	1.74	0.69
1:f:5:GLU:HG2	1:f:43:VAL:CG2	2.22	0.69
1:g:517:LEU:H	1:g:517:LEU:HD12	1.57	0.69
1:i:327:SER:HB2	1:i:331:GLY:HA3	1.73	0.69
1:k:785:GLN:HA	1:l:790:VAL:HG21	1.75	0.69
1:B:330:GLN:CB	1:B:379:ALA:HB3	2.16	0.69
1:C:389:TYR:CE1	1:C:457:VAL:HA	2.27	0.69
1:D:332:LEU:HB2	1:D:377:ARG:HB3	1.73	0.69
1:D:771:ILE:HD13	1:D:774:ARG:NH1	2.08	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:F:252:THR:H	1:F:254:GLN:NE2	1.91	0.69
1:G:115:VAL:O	1:G:118:ASN:HB3	1.92	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:284:ILE:H	1:I:284:ILE:HD13	1.58	0.69
1:I:332:LEU:HD21	1:I:407:MET:HB2	1.73	0.69
1:K:579:VAL:HG13	1:K:599:ILE:CD1	2.23	0.69
1:L:180:LYS:C	1:L:182:CYS:H	1.99	0.69
1:L:243:HIS:HE2	1:L:249:TRP:CG	2.11	0.69
1:M:527:ILE:HD13	1:M:527:ILE:H	1.58	0.69
1:N:279:ARG:HG3	1:N:280:HIS:CD2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:354:GLY:C	1:O:328:GLU:HG3	2.17	0.69
1:P:176:LEU:HD13	1:P:209:PHE:CD1	2.28	0.69
1:P:227:LEU:HB2	1:P:251:VAL:CG1	2.23	0.69
1:P:388:ILE:H	1:P:388:ILE:HD13	1.58	0.69
1:Q:14:HIS:HB2	1:Q:56:ARG:HB2	1.74	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:Y:338:GLN:HB3	1:Y:339:PRO:HD3	1.75	0.69
1:Z:121:LEU:HB2	1:Z:145:PHE:HB3	1.75	0.69
1:a:10:ILE:HD12	1:a:10:ILE:H	1.56	0.69
1:a:175:ARG:HH21	1:a:263:VAL:HG13	1.56	0.69
1:b:549:LEU:HD12	1:b:552:ARG:HA	1.74	0.69
1:d:36:ILE:HD12	1:d:36:ILE:C	2.18	0.69
1:d:704:LYS:HD2	1:e:712:MET:HB3	1.74	0.69
1:d:794:LYS:O	1:d:798:MET:HG2	1.92	0.69
1:g:14:HIS:CB	1:g:56:ARG:HB2	2.22	0.69
1:g:221:LEU:HD22	1:g:256:THR:HB	1.75	0.69
1:i:14:HIS:NE2	1:i:16:ILE:CD1	2.56	0.69
1:i:220:ILE:HD13	1:i:251:VAL:HG13	1.74	0.69
1:i:807:ILE:HD12	1:j:806:THR:HG21	1.75	0.69
1:j:180:LYS:C	1:j:182:CYS:H	1.99	0.69
1:j:227:LEU:O	1:j:250:LEU:HA	1.93	0.69
1:k:4:GLU:OE2	1:k:6:ALA:HB2	1.93	0.69
1:k:19:LEU:HA	1:k:32:PRO:HB2	1.73	0.69
1:k:723:LYS:HG3	1:l:735:ILE:HD11	1.75	0.69
1:m:45:PHE:HB3	1:m:47:PRO:HD2	1.74	0.69
1:E:481:VAL:HG11	1:E:487:VAL:CG1	2.23	0.69
1:F:171:ASN:O	1:F:216:VAL:HA	1.92	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:b:335:LYS:HE2	1:b:371:VAL:HG11	1.74	0.69
1:c:183:PHE:HE2	1:c:188:LYS:HA	1.57	0.69
1:f:115:VAL:N	1:f:118:ASN:HD22	1.89	0.69
1:h:90:ILE:HD13	1:h:90:ILE:H	1.58	0.69
1:h:382:LEU:HD13	1:h:387:GLY:HA2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:PHE:HB3	1:A:514:LEU:HD11	1.75	0.69
1:E:281:TYR:CE1	1:E:321:GLN:HB2	2.28	0.69
1:G:338:GLN:OE1	1:H:278:PRO:HB2	1.92	0.69
1:H:221:LEU:HA	1:H:253:VAL:HG13	1.75	0.69
1:I:260:VAL:HA	1:I:264:TYR:H	1.58	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:M:167:VAL:HG22	1:M:201:VAL:HA	1.75	0.69
1:N:337:LEU:N	1:N:337:LEU:HD23	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:a:587:THR:HG23	1:a:590:ASP:HB3	1.73	0.69
1:g:154:GLN:HG3	1:g:155:LYS:HG3	1.73	0.69
1:k:587:THR:HG23	1:k:590:ASP:HB3	1.75	0.69
1:A:766:ARG:HD2	1:B:768:MET:HE1	1.73	0.68
1:C:330:GLN:CB	1:C:379:ALA:HB3	2.22	0.68
1:E:494:GLN:HA	1:E:494:GLN:NE2	2.08	0.68
1:G:260:VAL:HA	1:G:264:TYR:H	1.58	0.68
1:H:533:ASP:OD1	1:H:587:THR:HA	1.93	0.68
1:I:332:LEU:HD21	1:I:407:MET:CB	2.23	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:M:174:LEU:HB2	1:M:198:VAL:HB	1.74	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:67:ARG:NE	1:Q:108:ASP:HB3	2.08	0.68
1:Q:70:GLN:HB3	1:Q:104:VAL:O	1.93	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:b:387:GLY:HA3	1:b:402:ILE:HG22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:10:ILE:H	1:f:10:ILE:HD12	1.58	0.68
1:h:281:TYR:HE1	1:h:321:GLN:HB2	1.57	0.68
1:k:45:PHE:HB3	1:k:47:PRO:HD2	1.75	0.68
1:l:419:LEU:HD23	1:l:421:SER:H	1.59	0.68
1:l:804:PRO:O	1:l:807:ILE:HD11	1.93	0.68
1:m:227:LEU:O	1:m:250:LEU:HA	1.93	0.68
1:A:523:PHE:CE1	1:A:568:VAL:HG12	2.28	0.68
1:A:804:PRO:O	1:A:807:ILE:HD11	1.92	0.68
1:B:697:SER:HA	1:C:706:LEU:HD23	1.74	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:O:123:LEU:HD11	1:O:143:TRP:HD1	1.57	0.68
1:R:60:ILE:H	1:R:60:ILE:HD12	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:S:182:CYS:SG	1:S:208:VAL:HG21	2.33	0.68
1:U:9:ARG:NH1	1:U:36:ILE:HA	2.05	0.68
1:U:116:LEU:CB	1:U:117:PRO:HD2	2.14	0.68
1:U:384:GLN:HE21	1:U:384:GLN:H	1.41	0.68
1:Y:490:ASP:CG	1:Y:491:PRO:HD2	2.19	0.68
1:a:130:GLU:H	1:a:137:VAL:HG13	1.56	0.68
1:b:14:HIS:HD1	1:b:36:ILE:HG22	1.58	0.68
1:b:45:PHE:HB3	1:b:47:PRO:HD2	1.75	0.68
1:d:14:HIS:HE2	1:d:16:ILE:HD11	1.55	0.68
1:d:452:ARG:HH12	1:d:454:LYS:HA	1.58	0.68
1:e:653:ALA:HB1	1:f:662:ILE:CD1	2.11	0.68
1:f:221:LEU:CD2	1:f:256:THR:HG21	2.23	0.68
1:g:311:GLN:HB3	1:g:312:PRO:HD2	1.74	0.68
1:h:10:ILE:H	1:h:10:ILE:HD12	1.57	0.68
1:i:469:GLN:HB3	1:i:496:THR:HG21	1.76	0.68
1:i:600:ARG:NH1	1:i:622:ALA:HB3	2.09	0.68
1:k:90:ILE:N	1:k:90:ILE:HD13	2.08	0.68
1:l:490:ASP:CG	1:l:491:PRO:HD2	2.17	0.68
1:A:9:ARG:NH1	1:A:36:ILE:HA	2.08	0.68
1:E:273:ILE:HG23	1:E:310:LEU:HD11	1.74	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:281:TYR:CE1	1:H:321:GLN:HB2	2.27	0.68
1:H:729:ARG:HH11	1:H:729:ARG:HB2	1.58	0.68
1:J:382:LEU:HB2	1:J:404:SER:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:481:VAL:HG11	1:M:487:VAL:HG13	1.74	0.68
1:N:221:LEU:HD13	1:N:256:THR:HB	1.74	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:227:LEU:O	1:b:250:LEU:HA	1.93	0.68
1:e:623:ARG:CG	1:e:624:ASP:H	2.06	0.68
1:f:14:HIS:HB3	1:f:56:ARG:HB2	1.73	0.68
1:f:547:PHE:CD2	1:f:561:LEU:HD23	2.28	0.68
1:i:132:LYS:HZ2	1:i:152:ILE:CD1	2.03	0.68
1:j:588:PHE:CD2	1:k:662:ILE:HD11	2.28	0.68
1:l:469:GLN:HB3	1:l:496:THR:HG21	1.75	0.68
1:B:221:LEU:CD2	1:B:256:THR:CB	2.70	0.68
1:C:239:ARG:HH21	1:C:257:GLU:HG2	1.57	0.68
1:C:729:ARG:HB2	1:C:729:ARG:NH1	2.08	0.68
1:D:727:GLU:HG3	1:E:735:ILE:HD13	1.74	0.68
1:E:4:GLU:OE2	1:E:6:ALA:HB2	1.92	0.68
1:F:281:TYR:HE1	1:F:321:GLN:HB2	1.55	0.68
1:H:19:LEU:HA	1:H:32:PRO:CB	2.23	0.68
1:I:169:LYS:HE3	1:I:201:VAL:HG11	1.75	0.68
1:L:311:GLN:HB3	1:L:312:PRO:HD2	1.75	0.68
1:L:564:VAL:HG21	1:L:631:ASN:ND2	2.08	0.68
1:N:760:GLU:O	1:N:764:LYS:HG2	1.92	0.68
1:O:36:ILE:C	1:O:36:ILE:HD13	2.19	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:167:VAL:HG13	1:W:202:GLY:H	1.58	0.68
1:W:182:CYS:SG	1:W:208:VAL:HG21	2.34	0.68
1:X:45:PHE:HB3	1:X:47:PRO:HD2	1.75	0.68
1:X:387:GLY:HA3	1:X:402:ILE:HG22	1.74	0.68
1:d:224:LYS:HA	1:d:272:PRO:HG3	1.74	0.68
1:e:73:VAL:HG11	1:e:82:ARG:HB2	1.75	0.68
1:e:120:ALA:HB3	1:e:162:ILE:HG13	1.74	0.68
1:e:221:LEU:HD21	1:e:256:THR:CG2	2.24	0.68
1:e:330:GLN:HA	1:e:330:GLN:OE1	1.91	0.68
1:g:152:ILE:CD1	1:g:152:ILE:N	2.55	0.68
1:h:221:LEU:HD22	1:h:256:THR:HG21	1.75	0.68
1:h:327:SER:CB	1:h:331:GLY:HA3	2.24	0.68
1:B:394:LYS:HG2	1:C:329:GLN:CG	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:452:ARG:HG3	1:E:452:ARG:HH11	1.59	0.68
1:H:326:LEU:HD21	1:H:333:LEU:HG	1.76	0.68
1:L:534:HIS:CD2	1:M:654:LEU:HG	2.28	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:a:221:LEU:HD22	1:a:256:THR:CB	2.22	0.68
1:a:338:GLN:CB	1:a:339:PRO:HD3	2.23	0.68
1:e:175:ARG:NE	1:e:263:VAL:HG22	2.08	0.68
1:e:601:MET:HE3	1:e:606:PHE:HB3	1.76	0.68
1:g:18:VAL:N	1:g:48:VAL:HG13	2.06	0.68
1:D:785:GLN:HA	1:E:790:VAL:HG21	1.76	0.68
1:E:125:ALA:HB3	1:E:140:GLY:HA2	1.75	0.68
1:F:9:ARG:NH1	1:F:36:ILE:HA	2.08	0.68
1:G:529:ILE:HD11	1:G:537:LEU:HB2	1.74	0.68
1:H:794:LYS:O	1:H:798:MET:HG2	1.94	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:227:LEU:HD13	1:b:229:LEU:HD21	1.75	0.68
1:e:19:LEU:HA	1:e:32:PRO:CB	2.24	0.68
1:h:5:GLU:HG2	1:h:43:VAL:CG2	2.23	0.68
1:k:14:HIS:ND1	1:k:36:ILE:HG22	2.09	0.68
1:F:224:LYS:O	1:F:272:PRO:HD3	1.94	0.68
1:F:337:LEU:HD22	1:F:357:TRP:HZ3	1.57	0.68
1:G:384:GLN:H	1:G:384:GLN:HE21	1.42	0.68
1:J:126:LEU:HB2	1:J:157:VAL:HG23	1.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:V:785:GLN:HA	1:W:790:VAL:HG21	1.75	0.68
1:c:60:ILE:HD11	1:c:95:ASP:O	1.93	0.68
1:d:381:PRO:CA	1:d:405:THR:HG22	2.21	0.68
1:f:54:PRO:CB	1:f:55:PRO:HD3	2.10	0.68
1:f:653:ALA:HB3	1:g:662:ILE:HD13	1.74	0.68
1:g:28:VAL:HG12	1:g:30:VAL:HG23	1.74	0.68
1:i:377:ARG:NH1	1:i:408:LEU:O	2.26	0.68
1:l:100:TYR:HB3	1:l:101:PRO:CD	2.24	0.68
1:m:9:ARG:NH1	1:m:36:ILE:HA	2.08	0.68
1:m:134:GLY:O	1:m:135:ASP:HB2	1.93	0.68
1:D:601:MET:HG2	1:D:622:ALA:CB	2.24	0.68
1:H:67:ARG:HH21	1:H:107:LYS:HA	1.58	0.68
1:J:287:PRO:HA	1:J:314:GLU:OE2	1.94	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:N:328:GLU:OE1	1:N:328:GLU:HA	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:R:220:ILE:C	1:R:222:THR:H	2.00	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:b:175:ARG:HE	1:b:263:VAL:HG22	1.58	0.68
1:c:601:MET:CG	1:c:622:ALA:HB2	2.23	0.68
1:d:601:MET:CG	1:d:622:ALA:HB2	2.23	0.68
1:j:175:ARG:NE	1:j:263:VAL:HG22	2.08	0.68
1:l:273:ILE:HG23	1:l:310:LEU:HD11	1.76	0.68
1:l:654:LEU:HD12	1:m:662:ILE:CD1	2.23	0.68
1:C:182:CYS:O	1:C:190:ARG:HB2	1.94	0.68
1:G:19:LEU:HA	1:G:32:PRO:HB3	1.76	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:c:204:TYR:O	1:c:206:PRO:HD3	1.94	0.68
1:e:16:ILE:HA	1:e:34:THR:OG1	1.93	0.68
1:h:182:CYS:O	1:h:190:ARG:HB2	1.94	0.68
1:k:215:LEU:HD12	1:k:259:HIS:HE2	1.59	0.68
1:m:501:SER:HB3	1:m:507:ARG:O	1.94	0.68
1:B:54:PRO:CB	1:B:55:PRO:HD3	2.13	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:HG3	1:B:452:ARG:NH1	2.08	0.68
1:C:419:LEU:HD23	1:C:421:SER:H	1.59	0.68
1:E:332:LEU:HD21	1:E:407:MET:CB	2.24	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:199:ARG:NH2	1:F:258:ALA:HB3	2.09	0.68
1:I:355:ASP:HA	1:J:328:GLU:CG	2.23	0.68
1:J:766:ARG:HD2	1:K:768:MET:HE1	1.76	0.68
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:f:5:GLU:CG	1:f:43:VAL:HG21	2.24	0.68
1:f:251:VAL:HG23	1:f:254:GLN:NE2	2.09	0.68
1:g:176:LEU:HD13	1:g:209:PHE:CD1	2.29	0.68
1:A:182:CYS:SG	1:A:208:VAL:HG21	2.34	0.67
1:B:415:TRP:CZ3	1:B:417:LYS:HB3	2.29	0.67
1:C:19:LEU:HD23	1:C:32:PRO:HB2	1.74	0.67
1:D:28:VAL:HG12	1:D:30:VAL:HG23	1.75	0.67
1:D:72:SER:HB3	1:D:84:ARG:HH21	1.59	0.67
1:D:328:GLU:OE1	1:D:362:PRO:HA	1.94	0.67
1:F:419:LEU:CG	1:F:420:PRO:HD2	2.20	0.67
1:F:777:LEU:HD11	1:G:783:LYS:HB2	1.76	0.67
1:G:191:VAL:HG12	1:G:194:GLU:HB2	1.75	0.67
1:H:283:VAL:HG22	1:H:301:VAL:HG12	1.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:116:LEU:HB3	1:P:117:PRO:CD	2.24	0.67
1:a:360:ARG:HG3	1:a:361:GLY:N	2.09	0.67
1:b:252:THR:H	1:b:254:GLN:NE2	1.91	0.67
1:c:130:GLU:H	1:c:137:VAL:HG22	1.59	0.67
1:d:452:ARG:HG3	1:d:452:ARG:HH11	1.59	0.67
1:e:67:ARG:HG2	1:e:108:ASP:HA	1.74	0.67
1:e:268:LEU:HD13	1:e:269:GLY:H	1.58	0.67
1:g:268:LEU:HD13	1:g:269:GLY:H	1.59	0.67
1:j:408:LEU:HD21	1:j:414:LEU:CD1	2.23	0.67
1:m:328:GLU:OE1	1:m:328:GLU:CA	2.37	0.67
1:E:697:SER:HA	1:F:706:LEU:HD23	1.76	0.67
1:F:785:GLN:HA	1:G:790:VAL:HG21	1.75	0.67
1:J:171:ASN:O	1:J:216:VAL:HA	1.93	0.67
1:M:120:ALA:HB3	1:M:162:ILE:HG13	1.77	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
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:a:115:VAL:H	1:a:118:ASN:ND2	1.92	0.67
1:b:419:LEU:HD22	1:b:422:GLY:H	1.60	0.67
1:c:64:PRO:HA	1:c:111:PRO:HD2	1.74	0.67
1:f:279:ARG:HG3	1:f:280:HIS:HD2	1.59	0.67
1:f:495:PHE:HB3	1:f:514:LEU:HD11	1.77	0.67
1:l:65:VAL:HG12	1:l:110:THR:HG22	1.76	0.67
1:l:337:LEU:HD22	1:l:357:TRP:HZ3	1.59	0.67
1:m:60:ILE:H	1:m:60:ILE:HD12	1.58	0.67
1:D:481:VAL:HG11	1:D:487:VAL:HG13	1.75	0.67
1:H:381:PRO:CA	1:H:405:THR:HG22	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:490:ASP:CG	1:c:491:PRO:HD2	2.18	0.67
1:d:29:GLU:O	1:d:84:ARG:NH1	2.22	0.67
1:d:587:THR:HG23	1:d:590:ASP:HB3	1.76	0.67
1:h:18:VAL:H	1:h:48:VAL:CG1	2.08	0.67
1:h:408:LEU:CD2	1:h:414:LEU:HD12	2.24	0.67
1:i:60:ILE:HG13	1:i:92:LEU:O	1.94	0.67
1:j:511:ARG:HH22	1:j:517:LEU:HD11	1.59	0.67
1:C:123:LEU:HA	1:C:158:GLU:HA	1.77	0.67
1:D:332:LEU:HD21	1:D:407:MET:HB3	1.74	0.67
1:D:384:GLN:H	1:D:384:GLN:NE2	1.92	0.67
1:D:569:GLY:O	1:D:573:LYS:HB2	1.94	0.67
1:F:529:ILE:HD13	1:F:583:VAL:HG11	1.76	0.67
1:F:580:ARG:HH22	1:G:595:SER:CB	2.07	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:L:165:ALA:CB	1:L:174:LEU:HD11	2.24	0.67
1:M:273:ILE:HG21	1:M:316:LEU:HD11	1.77	0.67
1:P:580:ARG:HH22	1:Q:595:SER:HB2	1.59	0.67
1:P:767:GLU:O	1:P:771:ILE:HD13	1.94	0.67
1:R:109:ILE:CD1	1:R:153:PRO:HB2	2.24	0.67
1:R:291:ASP:C	1:R:293:LYS:H	2.03	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:W:653:ALA:CB	1:X:662:ILE:HD12	2.23	0.67
1:X:273:ILE:HG23	1:X:310:LEU:HD11	1.77	0.67
1:Z:64:PRO:HA	1:Z:111:PRO:HD2	1.75	0.67
1:a:327:SER:CB	1:a:331:GLY:HA3	2.23	0.67
1:f:330:GLN:HB3	1:f:379:ALA:HB3	1.76	0.67
1:g:18:VAL:H	1:g:48:VAL:CG1	2.07	0.67
1:j:151:TYR:HD2	1:j:152:ILE:HD13	1.58	0.67
1:j:564:VAL:CG2	1:j:631:ASN:ND2	2.58	0.67
1:k:221:LEU:CD2	1:k:256:THR:HB	2.23	0.67
1:m:184:ASP:HB3	1:m:187:GLY:O	1.95	0.67
1:A:132:LYS:NZ	1:A:152:ILE:CD1	2.57	0.67
1:A:176:LEU:HD13	1:A:209:PHE:CD1	2.27	0.67
1:B:260:VAL:HB	1:B:263:VAL:HA	1.76	0.67
1:C:176:LEU:HD13	1:C:209:PHE:CD1	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:517:LEU:HD12	1:K:517:LEU:H	1.60	0.67
1:L:327:SER:HB2	1:L:331:GLY:CA	2.24	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:HD13	1:S:152:ILE:N	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:a:45:PHE:HB3	1:a:47:PRO:HD2	1.77	0.67
1:d:68:ASP:HA	1:d:90:ILE:HA	1.77	0.67
1:e:771:ILE:HD13	1:e:774:ARG:NH1	2.09	0.67
1:g:180:LYS:C	1:g:182:CYS:N	2.50	0.67
1:g:766:ARG:HD3	1:h:772:TYR:HB2	1.76	0.67
1:h:332:LEU:HD21	1:h:407:MET:CB	2.24	0.67
1:i:28:VAL:HG12	1:i:30:VAL:HG23	1.77	0.67
1:k:745:LYS:HG3	1:l:753:ILE:CD1	2.24	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:F:340:LEU:HD23	1:F:352:GLN:HA	1.76	0.67
1:G:176:LEU:CD1	1:G:209:PHE:HD1	2.01	0.67
1:I:115:VAL:H	1:I:118:ASN:HD22	1.42	0.67
1:J:116:LEU:HB3	1:J:117:PRO:CD	2.22	0.67
1:K:29:GLU:O	1:K:84:ARG:NH1	2.26	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:73:VAL:N	1:R:84:ARG:HG3	2.08	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: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
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:e:14:HIS:CB	1:e:56:ARG:CB	2.70	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:109:ILE:CD1	1:e:153:PRO:HB2	2.24	0.67
1:f:60:ILE:HB	1:f:93:ALA:HA	1.76	0.67
1:k:180:LYS:C	1:k:182:CYS:N	2.52	0.67
1:l:332:LEU:HD23	1:l:358:LEU:HD11	1.76	0.67
1:l:729:ARG:HB2	1:l:729:ARG:HH11	1.60	0.67
1:m:751:LEU:O	1:m:755:THR:HB	1.95	0.67
1:B:517:LEU:H	1:B:517:LEU:HD12	1.59	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:472:ASP:HA	1:E:493:GLU:HB3	1.76	0.67
1:G:402:ILE:H	1:G:402:ILE:HD13	1.60	0.67
1:J:4:GLU:OE2	1:J:6:ALA:HB2	1.94	0.67
1:J:8:ILE:HG22	1:J:40:ASN:HD21	1.59	0.67
1:K:68:ASP:HB2	1:K:90:ILE:HG22	1.76	0.67
1:K:116:LEU:HB3	1:K:117:PRO:CD	2.25	0.67
1:K:130:GLU:HB2	1:K:136:LYS:HA	1.76	0.67
1:K:540:GLN:O	1:K:641:GLN:HG2	1.95	0.67
1:L:19:LEU:HA	1:L:32:PRO:HB3	1.76	0.67
1:L:180:LYS:C	1:L:182:CYS:N	2.51	0.67
1:L:224:LYS:HA	1:L:272:PRO:HG3	1.76	0.67
1:L:597:ARG:HG3	1:L:600:ARG:HH21	1.59	0.67
1:N:36:ILE:HD13	1:N:36:ILE:C	2.20	0.67
1:O:421:SER:O	1:O:423:VAL:N	2.28	0.67
1:P:60:ILE:HD13	1:P:93:ALA:HA	1.75	0.67
1:P:70:GLN:HB3	1:P:104:VAL:H	1.58	0.67
1:Q:30:VAL:HG22	1:Q:74:LEU:HG	1.75	0.67
1:U:54:PRO:HB2	1:U:55:PRO:CD	2.20	0.67
1:U:505:PRO:O	1:U:506:LYS:HB2	1.93	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:339:PRO:HG3	1:Z:278:PRO:HA	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:c:284:ILE:HD13	1:c:284:ILE:H	1.57	0.67
1:c:332:LEU:HD23	1:c:358:LEU:HD11	1.77	0.67
1:c:381:PRO:CA	1:c:405:THR:HG22	2.21	0.67
1:e:564:VAL:CG2	1:e:631:ASN:HD22	2.08	0.67
1:g:332:LEU:HD21	1:g:407:MET:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:130:GLU:H	1:k:137:VAL:HG12	1.59	0.67
1:l:5:GLU:HG2	1:l:43:VAL:HG21	1.77	0.67
1:m:24:ASN:HD22	1:m:30:VAL:HB	1.60	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:452:ARG:HH11	1:D:452:ARG:HG3	1.58	0.67
1:G:19:LEU:HA	1:G:32:PRO:CB	2.24	0.67
1:G:194:GLU:HG2	1:G:195:GLU:H	1.59	0.67
1:H:176:LEU:HD13	1:H:209:PHE:HD1	1.59	0.67
1:H:279:ARG:HA	1:H:323:VAL:HG22	1.77	0.67
1:J:24:ASN:HD22	1:J:30:VAL:HB	1.60	0.67
1:J:167:VAL:HG22	1:J:201:VAL:HA	1.77	0.67
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:M:600:ARG:NH1	1:M:622:ALA:HB3	2.10	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:T:354:GLY:HA3	1:U:328:GLU:HG3	1.76	0.67
1:U:176:LEU:HD13	1:U:209:PHE:CD1	2.30	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:d:252:THR:H	1:d:254:GLN:HE21	1.42	0.67
1:g:125:ALA:HB3	1:g:140:GLY:HA2	1.77	0.67
1:g:221:LEU:HD22	1:g:256:THR:CB	2.24	0.67
1:h:115:VAL:H	1:h:118:ASN:ND2	1.85	0.67
1:i:523:PHE:CE1	1:i:568:VAL:HG12	2.30	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:I:19:LEU:HA	1:I:32:PRO:CB	2.24	0.67
1:I:45:PHE:HB3	1:I:47:PRO:HD2	1.77	0.67
1:I:224:LYS:HA	1:I:272:PRO:HG3	1.76	0.67
1:J:472:ASP:HA	1:J:493:GLU:HB3	1.77	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:N:425:GLU:CD	1:N:425:GLU:H	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:19:LEU:HA	1:Y:32:PRO:CB	2.25	0.67
1:Y:221:LEU:HD22	1:Y:256:THR:CG2	2.24	0.67
1:Z:587:THR:HG23	1:Z:590:ASP:HB3	1.76	0.67
1:a:185:ARG:NH2	1:a:208:VAL:HG22	2.10	0.67
1:d:338:GLN:CB	1:d:339:PRO:HD3	2.24	0.67
1:h:252:THR:H	1:h:254:GLN:NE2	1.92	0.67
1:i:529:ILE:CD1	1:i:537:LEU:HB2	2.25	0.67
1:j:311:GLN:HB3	1:j:312:PRO:CD	2.23	0.67
1:j:799:THR:HG21	1:k:801:ALA:HB1	1.77	0.67
1:D:19:LEU:HA	1:D:32:PRO:CB	2.25	0.67
1:D:325:VAL:HA	1:D:364:GLU:HA	1.77	0.67
1:H:224:LYS:HA	1:H:272:PRO:HG3	1.76	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:419:LEU:HD12	1:L:494:GLN:NE2	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:HD13	1:R:284:ILE:N	2.09	0.67
1:T:18:VAL:N	1:T:48:VAL:HG13	2.08	0.67
1:T:130:GLU:HA	1:T:137:VAL:HG13	1.76	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:Z:243:HIS:HE2	1:Z:249:TRP:CG	2.13	0.67
1:b:529:ILE:HD12	1:b:583:VAL:HG11	1.76	0.67
1:h:284:ILE:H	1:h:284:ILE:HD13	1.60	0.67
1:l:474:ARG:HG3	1:l:492:GLU:HB2	1.77	0.67
1:l:662:ILE:O	1:l:666:THR:HB	1.95	0.67
1:A:128:ASP:OD1	1:A:131:ASP:HB3	1.94	0.66
1:B:693:ILE:HD13	1:B:696:GLN:NE2	2.10	0.66
1:D:5:GLU:HG2	1:D:43:VAL:HG21	1.76	0.66
1:E:5:GLU:HG2	1:E:43:VAL:HG21	1.77	0.66
1:E:122:HIS:O	1:E:159:VAL:N	2.23	0.66
1:F:120:ALA:HB3	1:F:162:ILE:HG13	1.76	0.66
1:F:697:SER:HA	1:G:706:LEU:HD23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1:MET:CE	1:G:47:PRO:HB3	2.25	0.66
1:G:283:VAL:HG22	1:G:301:VAL:HG12	1.77	0.66
1:G:284:ILE:HD13	1:G:284:ILE:H	1.59	0.66
1:K:338:GLN:CB	1:K:339:PRO:HD3	2.24	0.66
1:L:100:TYR:HB3	1:L:101:PRO:HD2	1.77	0.66
1:L:452:ARG:NH2	1:L:458:VAL:HG22	2.09	0.66
1:M:130:GLU:HB2	1:M:136:LYS:HA	1.77	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:H	1:O:527:ILE:HD13	1.60	0.66
1:P:796:LYS:HA	1:P:799:THR:HG22	1.77	0.66
1:Q:284:ILE:H	1:Q:284:ILE:HD13	1.60	0.66
1:R:3:THR:H	1:R:50:MET:HE1	1.60	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:19:LEU:HA	1:Z:32:PRO:HB3	1.77	0.66
1:Z:310:LEU:HD21	1:Z:316:LEU:HG	1.75	0.66
1:a:5:GLU:HG2	1:a:43:VAL:CG2	2.24	0.66
1:e:19:LEU:HD23	1:e:32:PRO:HB2	1.75	0.66
1:e:185:ARG:HH22	1:e:207:ALA:HB3	1.60	0.66
1:f:124:LYS:HG2	1:f:157:VAL:O	1.95	0.66
1:f:523:PHE:CE1	1:f:568:VAL:HG12	2.31	0.66
1:h:395:THR:HB	1:h:397:LYS:H	1.60	0.66
1:h:472:ASP:HA	1:h:493:GLU:HB3	1.76	0.66
1:i:120:ALA:O	1:i:161:GLU:HA	1.96	0.66
1:j:130:GLU:HB2	1:j:136:LYS:HA	1.74	0.66
1:j:287:PRO:O	1:j:295:GLN:HB2	1.95	0.66
1:j:766:ARG:HD2	1:k:768:MET:HE1	1.77	0.66
1:k:332:LEU:HB2	1:k:377:ARG:HB3	1.75	0.66
1:l:19:LEU:HA	1:l:32:PRO:HB3	1.77	0.66
1:l:262:ASP:HB3	1:l:264:TYR:CE1	2.30	0.66
1:C:221:LEU:HD21	1:C:256:THR:CG2	2.26	0.66
1:D:302:VAL:HG21	1:D:308:PHE:HE2	1.58	0.66
1:D:527:ILE:C	1:D:527:ILE:HD12	2.20	0.66
1:E:419:LEU:CG	1:E:420:PRO:HD2	2.20	0.66
1:F:36:ILE:HG21	1:F:99:LEU:HD13	1.76	0.66
1:F:338:GLN:CB	1:F:339:PRO:HD3	2.24	0.66
1:G:109:ILE:HD12	1:G:153:PRO:CB	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:490:ASP:CG	1:H:491:PRO:HD2	2.20	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: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:a:294:ASN:ND2	1:a:313:GLY:HA3	2.11	0.66
1:d:152:ILE:HD12	1:d:152:ILE:H	1.60	0.66
1:e:115:VAL:N	1:e:118:ASN:HD22	1.93	0.66
1:h:122:HIS:O	1:h:159:VAL:N	2.27	0.66
1:h:654:LEU:HD12	1:i:662:ILE:CD1	2.24	0.66
1:j:221:LEU:CD2	1:j:256:THR:HB	2.24	0.66
1:D:771:ILE:HD13	1:D:774:ARG:HH11	1.61	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:I:338:GLN:CB	1:I:339:PRO:HD3	2.26	0.66
1:J:729:ARG:HB2	1:J:729:ARG:NH1	2.10	0.66
1:K:653:ALA:HB3	1:L:662:ILE:HD12	1.69	0.66
1:U:36:ILE:HD12	1:U:98:PRO:HB3	1.76	0.66
1:U:229:LEU:HD23	1:U:266:GLU:HA	1.77	0.66
1:W:191:VAL:HG12	1:W:194:GLU:HB2	1.77	0.66
1:c:465:ASN:ND2	1:c:520:PRO:HD2	2.10	0.66
1:c:729:ARG:NH1	1:c:729:ARG:HB2	2.10	0.66
1:e:474:ARG:HG3	1:e:492:GLU:HB2	1.76	0.66
1:g:281:TYR:CE1	1:g:321:GLN:HB2	2.30	0.66
1:k:67:ARG:CG	1:k:108:ASP:HB3	2.25	0.66
1:l:564:VAL:CG2	1:l:631:ASN:ND2	2.58	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:377:ARG:NH1	1:E:408:LEU:O	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:597:ARG:O	1:K:601:MET:HB2	1.95	0.66
1:L:36:ILE:O	1:L:37:ARG:HG3	1.95	0.66
1:L:261:PRO:HD2	1:L:264:TYR:HB2	1.77	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:9:ARG:NH1	1:S:36:ILE:HA	2.08	0.66
1:S:327:SER:CB	1:S:331:GLY:HA3	2.24	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:e:56:ARG:HH11	1:e:99:LEU:HD23	1.60	0.66
1:e:221:LEU:HD22	1:e:256:THR:CG2	2.25	0.66
1:e:734:ARG:HH21	1:e:735:ILE:HD13	1.60	0.66
1:l:506:LYS:HE2	1:l:524:THR:O	1.94	0.66
1:l:759:LEU:HD22	1:m:768:MET:HG3	1.77	0.66
1:l:766:ARG:HD2	1:m:768:MET:HE1	1.78	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:F:45:PHE:HB3	1:F:47:PRO:HD2	1.77	0.66
1:G:8:ILE:HG22	1:G:40:ASN:ND2	2.10	0.66
1:G:469:GLN:HB3	1:G:496:THR:CG2	2.25	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:J:340:LEU:HD23	1:J:352:GLN:HA	1.75	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:5:GLU:CG	1:V:43:VAL:HG21	2.25	0.66
1:V:116:LEU:CB	1:V:117:PRO:HD2	2.22	0.66
1:Y:230:ARG:HG2	1:Y:248:GLU:HG2	1.78	0.66
1:b:384:GLN:H	1:b:384:GLN:HE21	1.43	0.66
1:c:539:LEU:HD22	1:c:643:VAL:HG22	1.78	0.66
1:d:771:ILE:HA	1:d:774:ARG:HH11	1.61	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	2.11	0.66
1:g:227:LEU:HB2	1:g:251:VAL:CG1	2.24	0.66
1:h:380:ILE:HD12	1:h:406:TYR:O	1.96	0.66
1:i:382:LEU:HD13	1:i:387:GLY:HA2	1.76	0.66
1:l:511:ARG:HH22	1:l:517:LEU:HD11	1.59	0.66
1:A:151:TYR:HD2	1:A:152:ILE:CD1	2.08	0.66
1:C:85:HIS:NE2	1:C:102:GLY:HA3	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:224:LYS:HA	1:F:272:PRO:HG3	1.78	0.66
1:G:60:ILE:H	1:G:60:ILE:HD12	1.61	0.66
1:I:785:GLN:HA	1:J:790:VAL:HG21	1.78	0.66
1:K:459:SER:CB	1:K:488:THR:HG22	2.26	0.66
1:M:19:LEU:HA	1:M:32:PRO:HB3	1.76	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
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:S:164:GLN:CD	1:S:204:TYR:HB3	2.20	0.66
1:V:36:ILE:CD1	1:V:98:PRO:HB3	2.26	0.66
1:V:337:LEU:HD22	1:V:357:TRP:HZ3	1.59	0.66
1:Y:328:GLU:HA	1:Y:362:PRO:HA	1.78	0.66
1:d:113:GLN:OE1	1:d:149:GLY:HA2	1.95	0.66
1:g:653:ALA:HB3	1:h:662:ILE:CD1	2.25	0.66
1:h:729:ARG:NH1	1:h:729:ARG:HB2	2.11	0.66
1:k:382:LEU:HD13	1:k:387:GLY:HA2	1.76	0.66
1:k:407:MET:SD	1:k:407:MET:N	2.67	0.66
1:A:14:HIS:HD1	1:A:36:ILE:HG22	1.60	0.66
1:A:174:LEU:O	1:A:197:LEU:HA	1.96	0.66
1:A:662:ILE:CD1	1:m:653:ALA:CB	2.74	0.66
1:A:759:LEU:HD11	1:B:764:LYS:HB3	1.78	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:481:VAL:HG11	1:B:487:VAL:CG1	2.25	0.66
1:B:508:PRO:O	1:B:509:HIS:HD2	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:527:ILE:HD11	1:C:539:LEU:CG	2.23	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:G:381:PRO:HA	1:G:405:THR:HG22	1.78	0.66
1:G:785:GLN:HA	1:H:790:VAL:HG21	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:c:252:THR:O	1:c:254:GLN:N	2.29	0.66
1:c:623:ARG:HG3	1:c:624:ASP:H	1.61	0.66
1:d:109:ILE:HD12	1:d:153:PRO:CB	2.26	0.66
1:e:221:LEU:HD22	1:e:256:THR:HG21	1.78	0.66
1:i:77:ILE:HG13	1:i:79:GLY:H	1.61	0.66
1:i:221:LEU:HD21	1:i:256:THR:HG21	1.78	0.66
1:A:328:GLU:OE1	1:A:328:GLU:HA	1.93	0.66
1:E:501:SER:HB3	1:E:507:ARG:O	1.96	0.66
1:F:402:ILE:H	1:F:402:ILE:HD13	1.61	0.66
1:J:273:ILE:CD1	1:J:316:LEU:HD21	2.26	0.66
1:J:310:LEU:H	1:J:310:LEU:HD12	1.61	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:b:662:ILE:O	1:b:666:THR:HB	1.96	0.66
1:c:340:LEU:HD23	1:c:352:GLN:HA	1.77	0.66
1:g:115:VAL:H	1:g:118:ASN:ND2	1.86	0.66
1:h:284:ILE:HD13	1:h:300:ARG:O	1.96	0.66
1:h:338:GLN:HB3	1:h:339:PRO:HD3	1.76	0.66
1:i:8:ILE:HD12	1:i:8:ILE:O	1.95	0.66
1:j:5:GLU:HA	1:j:7:ILE:CD1	2.26	0.66
1:k:190:ARG:O	1:k:191:VAL:HG23	1.94	0.66
1:l:399:ARG:HH11	1:l:399:ARG:HG2	1.60	0.66
1:A:8:ILE:O	1:A:8:ILE:HD12	1.96	0.66
1:C:122:HIS:O	1:C:159:VAL:N	2.26	0.66
1:E:115:VAL:O	1:E:118:ASN:HB3	1.96	0.66
1:E:459:SER:CB	1:E:488:THR:HG22	2.23	0.66
1:G:54:PRO:HB2	1:G:55:PRO:CD	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:154:GLN:HG3	1:H:155:LYS:HG3	1.78	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:M:60:ILE:H	1:M:60:ILE:HD12	1.61	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:N:384:GLN:H	1:N:384:GLN:NE2	1.93	0.66
1:R:45:PHE:HB3	1:R:47:PRO:HD2	1.76	0.66
1:R:100:TYR:HB3	1:R:101:PRO:HD2	1.78	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:495:PHE:HB3	1:X:514:LEU:HD11	1.77	0.66
1:X:501:SER:HB3	1:X:507:ARG:O	1.96	0.66
1:Y:653:ALA:HB1	1:Z:662:ILE:HD12	1.76	0.66
1:Z:18:VAL:N	1:Z:48:VAL:HG13	2.08	0.66
1:b:60:ILE:HD13	1:b:60:ILE:H	1.61	0.66
1:k:474:ARG:HG3	1:k:492:GLU:HB2	1.77	0.66
1:l:221:LEU:HD22	1:l:256:THR:HB	1.77	0.66
1:D:175:ARG:HB2	1:D:213:LEU:O	1.96	0.66
1:F:28:VAL:HG12	1:F:30:VAL:HG23	1.77	0.66
1:F:230:ARG:HH11	1:F:230:ARG:HB3	1.61	0.66
1:F:387:GLY:HA3	1:F:402:ILE:HG22	1.78	0.66
1:F:389:TYR:CE1	1:F:457:VAL:HA	2.30	0.66
1:F:490:ASP:CG	1:F:491:PRO:HD2	2.21	0.66
1:F:529:ILE:HD12	1:F:537:LEU:HB2	1.78	0.66
1:L:109:ILE:HD12	1:L:153:PRO:CG	2.26	0.66
1:M:326:LEU:HD21	1:M:333:LEU:HG	1.78	0.66
1:N:719:THR:HG22	1:O:728:SER:HA	1.77	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:230:ARG:HH11	1:b:230:ARG:HB3	1.61	0.66
1:b:330:GLN:HB3	1:b:379:ALA:HB3	1.78	0.66
1:e:121:LEU:HB2	1:e:145:PHE:HB3	1.76	0.66
1:g:331:GLY:O	1:g:360:ARG:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:130:GLU:HB2	1:i:136:LYS:HA	1.75	0.66
1:k:394:LYS:HG2	1:l:329:GLN:CG	2.24	0.66
1:m:311:GLN:HB3	1:m:312:PRO:HD2	1.76	0.66
1:m:802:LEU:HD12	1:m:806:THR:HG22	1.77	0.66
1:B:662:ILE:O	1:B:666:THR:HB	1.95	0.65
1:C:36:ILE:HD13	1:C:36:ILE:C	2.21	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: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:K:452:ARG:HH11	1:K:452:ARG:HG3	1.61	0.65
1:L:154:GLN:CG	1:L:155:LYS:HE3	2.26	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:H	1:T:90:ILE:HD13	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:394:LYS:HG2	1:c:329:GLN:CG	2.24	0.65
1:b:398:VAL:N	1:c:384:GLN:OE1	2.28	0.65
1:d:526:VAL:HG22	1:d:540:GLN:HG2	1.78	0.65
1:f:116:LEU:HB3	1:f:117:PRO:CD	2.18	0.65
1:f:236:ARG:HH11	1:f:236:ARG:HB3	1.59	0.65
1:i:227:LEU:O	1:i:250:LEU:HA	1.96	0.65
1:k:176:LEU:HB2	1:k:196:TRP:HB2	1.77	0.65
1:l:224:LYS:O	1:l:272:PRO:HD3	1.96	0.65
1:l:252:THR:H	1:l:254:GLN:HE22	1.43	0.65
1:B:65:VAL:HG12	1:B:110:THR:HG22	1.78	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:813:ALA:O	1:B:815:PRO:HD3	1.96	0.65
1:D:260:VAL:HA	1:D:264:TYR:H	1.61	0.65
1:D:539:LEU:HD22	1:D:643:VAL:HG22	1.78	0.65
1:H:16:ILE:HB	1:H:51:VAL:HB	1.78	0.65
1:H:224:LYS:O	1:H:272:PRO:HD3	1.97	0.65
1:I:14:HIS:O	1:I:53:VAL:HB	1.96	0.65
1:I:64:PRO:HA	1:I:111:PRO:HD2	1.79	0.65
1:J:113:GLN:HG2	1:J:150:THR:HB	1.76	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:L:469:GLN:HB3	1:L:496:THR:HG21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:P:180:LYS:C	1:P:182:CYS:N	2.53	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:600:ARG:NH1	1:X:622:ALA:HB3	2.11	0.65
1:c:221:LEU:HD22	1:c:256:THR:CG2	2.26	0.65
1:e:600:ARG:NH1	1:e:622:ALA:HB3	2.11	0.65
1:j:73:VAL:N	1:j:84:ARG:HB2	2.10	0.65
1:l:459:SER:CB	1:l:488:THR:HG22	2.27	0.65
1:B:130:GLU:CB	1:B:136:LYS:HA	2.26	0.65
1:C:469:GLN:HB3	1:C:496:THR:HG21	1.77	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:F:221:LEU:HD22	1:F:256:THR:CG2	2.26	0.65
1:H:164:GLN:HE21	1:H:204:TYR:HB2	1.62	0.65
1:L:123:LEU:HG	1:L:143:TRP:HB2	1.77	0.65
1:L:175:ARG:HE	1:L:263:VAL:HG22	1.61	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:54:PRO:HB2	1:Z:55:PRO:CD	2.19	0.65
1:Z:224:LYS:HA	1:Z:272:PRO:HG3	1.78	0.65
1:a:154:GLN:HG3	1:a:155:LYS:HG3	1.78	0.65
1:a:204:TYR:O	1:a:206:PRO:HD3	1.96	0.65
1:b:100:TYR:HB3	1:b:101:PRO:CD	2.26	0.65
1:b:221:LEU:CD2	1:b:256:THR:HB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:106:GLU:O	1:c:107:LYS:HD2	1.96	0.65
1:h:221:LEU:HD22	1:h:256:THR:CG2	2.26	0.65
1:i:54:PRO:HB2	1:i:55:PRO:CD	2.25	0.65
1:k:354:GLY:HA3	1:l:328:GLU:HG3	1.79	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
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:I:70:GLN:HB3	1:I:104:VAL:H	1.61	0.65
1:I:523:PHE:CE1	1:I:568:VAL:HG12	2.31	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:3:THR:HG22	1:T:50:MET:HE1	1.76	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:407:MET:SD	1:a:407:MET:N	2.68	0.65
1:e:338:GLN:CB	1:e:339:PRO:HD3	2.26	0.65
1:h:415:TRP:CZ3	1:h:417:LYS:HB3	2.32	0.65
1:i:481:VAL:HG11	1:i:487:VAL:CG1	2.26	0.65
1:j:5:GLU:HB2	1:j:7:ILE:HD13	1.79	0.65
1:l:3:THR:HG22	1:l:50:MET:HE1	1.78	0.65
1:A:83:LEU:HD12	1:A:86:ALA:HB3	1.79	0.65
1:A:268:LEU:HD13	1:A:269:GLY:H	1.61	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:E:19:LEU:HD23	1:E:32:PRO:HB2	1.77	0.65
1:H:32:PRO:HG2	1:I:11:PRO:HG3	1.78	0.65
1:H:123:LEU:HA	1:H:158:GLU:HA	1.79	0.65
1:I:327:SER:HB2	1:I:331:GLY:HA2	1.75	0.65
1:I:804:PRO:O	1:I:807:ILE:HD11	1.95	0.65
1:L:113:GLN:O	1:L:114:VAL:HG13	1.96	0.65
1:O:319:GLY:C	1:O:320:ILE:HD13	2.22	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:180:LYS:C	1:R:182:CYS:H	2.02	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Y:522:PHE:CD2	1:Y:522:PHE:C	2.74	0.65
1:Z:490:ASP:CG	1:Z:491:PRO:HD2	2.22	0.65
1:a:395:THR:HG21	1:a:397:LYS:HE2	1.78	0.65
1:c:587:THR:HG23	1:c:590:ASP:CB	2.27	0.65
1:g:180:LYS:HD2	1:g:208:VAL:HG12	1.79	0.65
1:h:276:LEU:HD13	1:h:278:PRO:HD2	1.77	0.65
1:i:529:ILE:HD11	1:i:537:LEU:HB2	1.77	0.65
1:j:16:ILE:CD1	1:j:34:THR:HG21	2.27	0.65
1:l:494:GLN:HA	1:l:494:GLN:NE2	2.11	0.65
1:A:85:HIS:NE2	1:A:102:GLY:HA3	2.12	0.65
1:C:255:ASP:OD2	1:C:257:GLU:HB3	1.97	0.65
1:D:476:LYS:CE	1:E:485:GLU:HG3	2.27	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:380:ILE:CD1	1:G:388:ILE:HG12	2.26	0.65
1:I:452:ARG:HG3	1:I:452:ARG:HH11	1.59	0.65
1:I:568:VAL:HG23	1:I:569:GLY:H	1.62	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:L:536:ARG:HB2	1:L:646:VAL:HB	1.77	0.65
1:L:571:ALA:O	1:L:575:ILE:HG12	1.95	0.65
1:M:511:ARG:HH22	1:M:517:LEU:HD11	1.61	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:a:28:VAL:HG12	1:a:30:VAL:HG23	1.78	0.65
1:b:597:ARG:HG3	1:b:600:ARG:HH21	1.62	0.65
1:d:154:GLN:HG3	1:d:155:LYS:HG3	1.79	0.65
1:g:152:ILE:N	1:g:152:ILE:HD13	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:485:GLU:HG2	1:i:486:LEU:H	1.61	0.65
1:i:745:LYS:CG	1:j:753:ILE:CD1	2.64	0.65
1:j:224:LYS:O	1:j:272:PRO:HD3	1.95	0.65
1:k:58:TYR:CD1	1:k:98:PRO:HA	2.31	0.65
1:k:61:VAL:HG13	1:k:65:VAL:HG23	1.76	0.65
1:l:19:LEU:HA	1:l:32:PRO:CB	2.26	0.65
1:l:130:GLU:HA	1:l:137:VAL:H	1.61	0.65
1:l:175:ARG:NE	1:l:263:VAL:HG22	2.08	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:H:327:SER:HB2	1:H:331:GLY:CA	2.26	0.65
1:I:8:ILE:O	1:I:8:ILE:HD12	1.96	0.65
1:I:90:ILE:HD12	1:I:90:ILE:O	1.96	0.65
1:J:19:LEU:HA	1:J:32:PRO:HB3	1.78	0.65
1:L:65:VAL:HA	1:L:110:THR:HA	1.78	0.65
1:L:279:ARG:O	1:L:323:VAL:N	2.23	0.65
1:M:182:CYS:O	1:M:190:ARG:HB2	1.96	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
1:T:653:ALA:HB3	1:U:662:ILE:CD1	2.27	0.65
1:U:452:ARG:HH12	1:U:454:LYS:HA	1.62	0.65
1:Y:123:LEU:HG	1:Y:143:TRP:HB2	1.77	0.65
1:b:418:GLU:OE2	1:b:452:ARG:NH1	2.30	0.65
1:c:14:HIS:HD1	1:c:36:ILE:CG2	2.09	0.65
1:e:332:LEU:HD23	1:e:358:LEU:HD11	1.79	0.65
1:h:517:LEU:H	1:h:517:LEU:HD12	1.62	0.65
1:i:72:SER:HB3	1:i:84:ARG:HH21	1.61	0.65
1:m:526:VAL:HG22	1:m:540:GLN:HG2	1.78	0.65
1:B:164:GLN:HB3	1:B:204:TYR:HA	1.79	0.65
1:D:109:ILE:CD1	1:D:153:PRO:HB2	2.27	0.65
1:E:28:VAL:HG12	1:E:30:VAL:HG23	1.79	0.65
1:E:54:PRO:HB2	1:E:55:PRO:CD	2.14	0.65
1:E:381:PRO:HA	1:E:405:THR:CG2	2.26	0.65
1:G:65:VAL:CG1	1:G:110:THR:HG22	2.27	0.65
1:J:184:ASP:HB3	1:J:187:GLY:O	1.97	0.65
1:K:16:ILE:HA	1:K:34:THR:OG1	1.97	0.65
1:K:807:ILE:CD1	1:L:806:THR:HG21	2.27	0.65
1:L:29:GLU:O	1:L:84:ARG:HD3	1.97	0.65
1:L:227:LEU:O	1:L:250:LEU:HA	1.96	0.65
1:L:262:ASP:HB3	1:L:264:TYR:CE1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:ASP:HA	1:L:493:GLU:HB3	1.78	0.65
1:P:575:ILE:HD11	1:P:628:PHE:HZ	1.62	0.65
1:Q:164:GLN:CD	1:Q:204:TYR:CB	2.65	0.65
1:S:46:ALA:N	1:S:47:PRO:CD	2.60	0.65
1:T:18:VAL:H	1:T:48:VAL:CG1	2.08	0.65
1:T:152:ILE:HD11	1:T:156:GLU:OE2	1.96	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:Y:522:PHE:C	1:Y:522:PHE:HD2	2.05	0.65
1:Z:542:ALA:HB3	1:Z:639:ASP:HB2	1.79	0.65
1:c:60:ILE:N	1:c:60:ILE:HD13	2.11	0.65
1:e:221:LEU:HD21	1:e:256:THR:HG21	1.77	0.65
1:h:332:LEU:HD21	1:h:407:MET:HB3	1.77	0.65
1:h:533:ASP:OD1	1:h:587:THR:HA	1.96	0.65
1:i:660:LEU:HA	1:i:663:GLU:HB3	1.79	0.65
1:A:662:ILE:CD1	1:m:653:ALA:HB1	2.26	0.65
1:C:60:ILE:H	1:C:60:ILE:HD12	1.59	0.65
1:C:360:ARG:CD	1:C:407:MET:HG2	2.27	0.65
1:D:16:ILE:HA	1:D:34:THR:OG1	1.96	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: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:I:28:VAL:HG12	1:I:30:VAL:HG23	1.78	0.65
1:I:55:PRO:O	1:I:56:ARG:HG2	1.96	0.65
1:J:221:LEU:HD21	1:J:256:THR:HG21	1.78	0.65
1:J:273:ILE:HD13	1:J:316:LEU:HD11	1.79	0.65
1:J:338:GLN:CB	1:J:339:PRO:HD3	2.27	0.65
1:K:13:TYR:HB3	1:K:54:PRO:O	1.97	0.65
1:K:100:TYR:HB3	1:K:101:PRO:CD	2.26	0.65
1:K:281:TYR:CE1	1:K:321:GLN:HB2	2.32	0.65
1:M:115:VAL:H	1:M:118:ASN:HD22	1.45	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:5:GLU:HG2	1:V:43:VAL:CG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:123:LEU:HD11	1:V:143:TRP:HD1	1.61	0.65
1:W:337:LEU:HG	1:W:354:GLY:H	1.60	0.65
1:X:57:HIS:O	1:X:99:LEU:HD11	1.97	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:d:384:GLN:HE21	1:d:384:GLN:N	1.95	0.65
1:d:580:ARG:HH22	1:e:595:SER:HB2	1.62	0.65
1:g:185:ARG:HH22	1:g:207:ALA:HB3	1.62	0.65
1:h:227:LEU:CB	1:h:251:VAL:HG12	2.27	0.65
1:h:340:LEU:HD23	1:h:352:GLN:HA	1.78	0.65
1:j:113:GLN:OE1	1:j:149:GLY:HA2	1.96	0.65
1:k:151:TYR:CD2	1:k:152:ILE:HD13	2.31	0.65
1:A:654:LEU:CD1	1:B:662:ILE:CD1	2.74	0.65
1:C:167:VAL:H	1:C:202:GLY:HA2	1.61	0.65
1:F:5:GLU:CG	1:F:43:VAL:HG21	2.25	0.65
1:F:239:ARG:HH21	1:F:257:GLU:HG2	1.62	0.65
1:G:122:HIS:HB3	1:G:159:VAL:HB	1.79	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: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:W:152:ILE:CD1	1:W:152:ILE:H	2.10	0.65
1:b:9:ARG:NH1	1:b:36:ILE:HA	2.12	0.65
1:c:184:ASP:HB2	1:c:189:GLY:O	1.97	0.65
1:d:469:GLN:HB3	1:d:496:THR:CG2	2.27	0.65
1:g:130:GLU:HA	1:g:137:VAL:H	1.61	0.65
1:g:507:ARG:HB2	1:g:510:ALA:HB2	1.79	0.65
1:k:729:ARG:HB2	1:k:729:ARG:NH1	2.12	0.65
1:A:501:SER:HB3	1:A:507:ARG:O	1.97	0.64
1:A:785:GLN:HA	1:B:790:VAL:HG21	1.79	0.64
1:B:419:LEU:HG	1:B:420:PRO:HD2	1.79	0.64
1:C:53:VAL:CG1	1:C:56:ARG:HG3	2.28	0.64
1:J:28:VAL:HG12	1:J:30:VAL:HG23	1.78	0.64
1:J:251:VAL:HA	1:J:254:GLN:NE2	2.11	0.64
1:K:14:HIS:HB3	1:K:56:ARG:CB	2.25	0.64
1:K:194:GLU:HG2	1:K:195:GLU:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O:326:LEU:CD2	1:O:333:LEU:HG	2.26	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:X:180:LYS:C	1:X:182:CYS:H	2.03	0.64
1:Z:120:ALA:CB	1:Z:164:GLN:HE22	2.10	0.64
1:d:523:PHE:CE1	1:d:568:VAL:HG12	2.32	0.64
1:e:123:LEU:HG	1:e:143:TRP:HB2	1.79	0.64
1:e:130:GLU:H	1:e:137:VAL:HG13	1.62	0.64
1:f:14:HIS:ND1	1:f:36:ILE:HG22	2.12	0.64
1:g:9:ARG:NH1	1:g:36:ILE:HA	2.11	0.64
1:h:167:VAL:HG22	1:h:201:VAL:HA	1.78	0.64
1:i:90:ILE:O	1:i:90:ILE:HD12	1.97	0.64
1:k:597:ARG:HG3	1:k:600:ARG:NH2	2.11	0.64
1:l:109:ILE:CD1	1:l:153:PRO:HG2	2.27	0.64
1:B:327:SER:HB2	1:B:331:GLY:N	2.12	0.64
1:D:571:ALA:O	1:D:575:ILE:HG13	1.96	0.64
1:E:249:TRP:H	1:E:249:TRP:CD1	2.14	0.64
1:L:606:PHE:HA	1:L:622:ALA:HA	1.79	0.64
1:M:46:ALA:N	1:M:47:PRO:CD	2.60	0.64
1:M:762:VAL:HG12	1:N:768:MET:HE2	1.78	0.64
1:O:4:GLU:OE2	1:O:6:ALA:HB2	1.97	0.64
1:O:19:LEU:HD23	1:O:32:PRO:HB2	1.79	0.64
1:P:19:LEU:HA	1:P:32:PRO:CB	2.26	0.64
1:R:196:TRP:HA	1:R:196:TRP:HE3	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:507:ARG:HB2	1:b:510:ALA:HB2	1.77	0.64
1:c:19:LEU:HA	1:c:32:PRO:CB	2.28	0.64
1:c:73:VAL:N	1:c:84:ARG:HB2	2.11	0.64
1:d:481:VAL:HG11	1:d:487:VAL:HG11	1.79	0.64
1:f:260:VAL:HB	1:f:263:VAL:HA	1.78	0.64
1:h:273:ILE:HG23	1:h:310:LEU:HD11	1.80	0.64
1:i:526:VAL:HG22	1:i:540:GLN:HG2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:58:TYR:CG	1:k:98:PRO:HA	2.31	0.64
1:m:90:ILE:N	1:m:90:ILE:CD1	2.51	0.64
1:m:221:LEU:CD2	1:m:256:THR:HB	2.27	0.64
1:B:260:VAL:HA	1:B:264:TYR:H	1.62	0.64
1:B:777:LEU:HD11	1:C:783:LYS:CB	2.25	0.64
1:C:36:ILE:HD13	1:C:36:ILE:O	1.97	0.64
1:J:245:THR:OG1	1:K:170:GLN:NE2	2.31	0.64
1:L:729:ARG:HB2	1:L:729:ARG:HH11	1.61	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:N:490:ASP:CG	1:N:491:PRO:HD2	2.22	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:R:494:GLN:NE2	1:R:494:GLN:HA	2.08	0.64
1:S:194:GLU:HG2	1:S:195:GLU:H	1.62	0.64
1:T:332:LEU:HD23	1:T:358:LEU:HD11	1.79	0.64
1:T:337:LEU:HD22	1:T:357:TRP:CZ3	2.32	0.64
1:U:196:TRP:HA	1:U:196:TRP:CE3	2.32	0.64
1:U:384:GLN:H	1:U:384:GLN:NE2	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:b:85:HIS:NE2	1:b:102:GLY:HA3	2.13	0.64
1:b:573:LYS:HE3	1:c:522:PHE:CZ	2.32	0.64
1:c:172:GLN:HG2	1:c:216:VAL:HG12	1.80	0.64
1:d:474:ARG:CG	1:d:492:GLU:HB2	2.28	0.64
1:g:10:ILE:H	1:g:10:ILE:HD12	1.62	0.64
1:g:155:LYS:HB2	1:g:155:LYS:HZ2	1.62	0.64
1:g:235:PHE:CZ	1:g:264:TYR:CE1	2.85	0.64
1:h:260:VAL:HB	1:h:263:VAL:HA	1.79	0.64
1:i:175:ARG:HE	1:i:263:VAL:HG22	1.63	0.64
1:j:506:LYS:HE2	1:j:524:THR:O	1.96	0.64
1:l:18:VAL:N	1:l:48:VAL:HG13	2.11	0.64
1:l:130:GLU:N	1:l:137:VAL:HG13	2.11	0.64
1:m:319:GLY:C	1:m:320:ILE:HD13	2.22	0.64
1:A:68:ASP:O	1:A:106:GLU:HB2	1.97	0.64
1:A:340:LEU:HG	1:A:353:ALA:HB2	1.80	0.64
1:B:8:ILE:HD12	1:B:8:ILE:O	1.96	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:C:337:LEU:HD22	1:C:357:TRP:HZ3	1.61	0.64
1:F:16:ILE:HA	1:F:34:THR:OG1	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:ASP:HA	1:G:493:GLU:HB3	1.80	0.64
1:H:260:VAL:HA	1:H:264:TYR:H	1.62	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:J:330:GLN:HB3	1:J:379:ALA:HB3	1.79	0.64
1:K:623:ARG:CG	1:K:624:ASP:H	2.10	0.64
1:L:77:ILE:CG2	1:L:78:THR:N	2.60	0.64
1:L:252:THR:O	1:L:254:GLN:N	2.30	0.64
1:M:587:THR:HG23	1:M:590:ASP:CB	2.27	0.64
1:M:802:LEU:HD12	1:M:806:THR:HG22	1.80	0.64
1:N:36:ILE:O	1:N:36:ILE:HD13	1.96	0.64
1:N:337:LEU:HD22	1:N:357:TRP:CZ3	2.29	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:Q:87:ASP:CG	1:Q:88:GLN:H	2.04	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:5:GLU:HG2	1:X:43:VAL:HG21	1.78	0.64
1:X:115:VAL:N	1:X:118:ASN:HD22	1.90	0.64
1:Y:65:VAL:HG12	1:Y:110:THR:HG22	1.79	0.64
1:Y:70:GLN:HB3	1:Y:104:VAL:N	2.11	0.64
1:Y:332:LEU:HD23	1:Y:358:LEU:HD11	1.79	0.64
1:b:3:THR:HG23	1:b:50:MET:HE1	1.79	0.64
1:c:676:GLU:OE1	1:c:676:GLU:HA	1.97	0.64
1:g:235:PHE:CE1	1:g:264:TYR:CE1	2.85	0.64
1:h:771:ILE:HD13	1:h:774:ARG:HH11	1.61	0.64
1:l:14:HIS:HB3	1:l:56:ARG:HB2	1.80	0.64
1:m:115:VAL:O	1:m:118:ASN:HB3	1.96	0.64
1:m:332:LEU:HB2	1:m:377:ARG:HB3	1.80	0.64
1:A:384:GLN:HE21	1:A:384:GLN:H	1.45	0.64
1:D:109:ILE:HD12	1:D:153:PRO:CB	2.28	0.64
1:E:8:ILE:HD13	1:E:8:ILE:H	1.62	0.64
1:F:653:ALA:HB1	1:G:662:ILE:HD11	1.78	0.64
1:G:481:VAL:HG11	1:G:487:VAL:CG1	2.27	0.64
1:H:73:VAL:H	1:H:84:ARG:HB2	1.63	0.64
1:H:522:PHE:C	1:H:522:PHE:CD2	2.75	0.64
1:I:14:HIS:HB3	1:I:56:ARG:CG	2.23	0.64
1:K:227:LEU:HD13	1:K:229:LEU:HD21	1.80	0.64
1:K:599:ILE:C	1:K:601:MET:H	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:164:GLN:CD	1:a:204:TYR:HB3	2.23	0.64
1:a:381:PRO:HA	1:a:405:THR:HG22	1.78	0.64
1:c:5:GLU:CG	1:c:43:VAL:HG21	2.25	0.64
1:c:176:LEU:HB2	1:c:196:TRP:HB2	1.77	0.64
1:d:45:PHE:HB3	1:d:47:PRO:HD2	1.78	0.64
1:d:551:ASN:HB3	1:d:554:ASP:CB	2.28	0.64
1:g:273:ILE:HD13	1:g:316:LEU:HD21	1.79	0.64
1:h:18:VAL:N	1:h:48:VAL:HG13	2.09	0.64
1:i:8:ILE:HG22	1:i:40:ASN:ND2	2.13	0.64
1:i:43:VAL:HG12	1:i:45:PHE:O	1.98	0.64
1:i:284:ILE:HD13	1:i:284:ILE:N	2.12	0.64
1:i:476:LYS:CE	1:j:485:GLU:HG3	2.28	0.64
1:i:796:LYS:HA	1:i:799:THR:HG22	1.79	0.64
1:l:45:PHE:HB3	1:l:47:PRO:HD2	1.79	0.64
1:l:168:ILE:HD12	1:l:172:GLN:OE1	1.97	0.64
1:m:527:ILE:HD11	1:m:539:LEU:HG	1.78	0.64
1:A:174:LEU:CB	1:A:198:VAL:HB	2.27	0.64
1:E:185:ARG:HG3	1:E:206:PRO:CB	2.26	0.64
1:E:327:SER:O	1:E:328:GLU:HB3	1.96	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:I:239:ARG:NH2	1:I:257:GLU:HG2	2.13	0.64
1:I:490:ASP:CG	1:I:491:PRO:HD2	2.23	0.64
1:I:587:THR:HG23	1:I:590:ASP:CB	2.26	0.64
1:K:46:ALA:N	1:K:47:PRO:CD	2.60	0.64
1:M:113:GLN:OE1	1:M:149:GLY:HA2	1.98	0.64
1:M:138:MET:HE1	1:N:148:PRO:CB	2.27	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:Q:180:LYS:C	1:Q:182:CYS:H	2.05	0.64
1:Q:653:ALA:HB1	1:R:662:ILE:HD12	1.80	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: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:338:GLN:NE2	1:b:279:ARG:HD3	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:8:ILE:HG22	1:c:40:ASN:ND2	2.13	0.64
1:e:802:LEU:HD12	1:e:806:THR:HG22	1.77	0.64
1:f:19:LEU:HA	1:f:32:PRO:CB	2.24	0.64
1:f:474:ARG:HG3	1:f:492:GLU:HB2	1.79	0.64
1:g:152:ILE:HD12	1:g:152:ILE:H	1.63	0.64
1:g:380:ILE:HD12	1:g:406:TYR:O	1.97	0.64
1:i:11:PRO:HA	1:i:38:GLN:HA	1.80	0.64
1:i:14:HIS:HB3	1:i:56:ARG:HB2	1.79	0.64
1:i:328:GLU:OE1	1:i:328:GLU:HA	1.97	0.64
1:i:762:VAL:O	1:i:766:ARG:HB2	1.97	0.64
1:j:176:LEU:HD13	1:j:209:PHE:CD1	2.31	0.64
1:m:16:ILE:HB	1:m:51:VAL:HB	1.79	0.64
1:C:8:ILE:HD12	1:C:8:ILE:O	1.98	0.64
1:C:9:ARG:NH1	1:C:36:ILE:HA	2.09	0.64
1:C:24:ASN:HD22	1:C:30:VAL:HB	1.63	0.64
1:C:601:MET:HE3	1:C:606:PHE:HB3	1.79	0.64
1:D:120:ALA:HB3	1:D:162:ILE:HG13	1.80	0.64
1:D:469:GLN:HB3	1:D:496:THR:HG21	1.78	0.64
1:F:19:LEU:HA	1:F:32:PRO:HB2	1.80	0.64
1:F:335:LYS:HB2	1:F:335:LYS:NZ	2.13	0.64
1:J:15:TYR:CE2	1:J:17:HIS:HB3	2.33	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:245:THR:HG22	1:L:219:VAL:HG11	1.79	0.64
1:K:419:LEU:HD23	1:K:421:SER:H	1.62	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: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:777:LEU:HD11	1:b:783:LYS:HB2	1.79	0.64
1:e:54:PRO:HB2	1:e:55:PRO:CD	2.25	0.64
1:f:36:ILE:HG21	1:f:99:LEU:CD1	2.28	0.64
1:f:649:ARG:HH21	1:g:655:GLN:HG2	1.63	0.64
1:g:120:ALA:HB3	1:g:162:ILE:HG13	1.80	0.64
1:h:16:ILE:HA	1:h:34:THR:OG1	1.98	0.64
1:i:230:ARG:HH11	1:i:230:ARG:HB3	1.62	0.64
1:j:123:LEU:HD21	1:j:143:TRP:HB2	1.80	0.64
1:j:341:GLU:HG2	1:j:370:LYS:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:469:GLN:HB3	1:j:496:THR:CG2	2.28	0.64
1:k:182:CYS:SG	1:k:208:VAL:CG2	2.86	0.64
1:k:543:TYR:CD2	1:k:575:ILE:HD13	2.33	0.64
1:l:221:LEU:HD22	1:l:256:THR:CB	2.27	0.64
1:l:273:ILE:HG13	1:l:308:PHE:HB3	1.80	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: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:36:ILE:O	1:L:36:ILE:HD13	1.97	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:116:LEU:HB3	1:L:117:PRO:HD2	1.79	0.64
1:L:529:ILE:HG22	1:L:580:ARG:HB2	1.79	0.64
1:L:734:ARG:HH21	1:L:735:ILE:HD13	1.61	0.64
1:N:384:GLN:H	1:N:384:GLN:HE21	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:H	1:Z:384:GLN:HE21	1.44	0.64
1:a:18:VAL:CG1	1:a:48:VAL:HG22	2.24	0.64
1:a:109:ILE:HD12	1:a:153:PRO:CG	2.28	0.64
1:a:109:ILE:CD1	1:a:153:PRO:HG2	2.28	0.64
1:a:469:GLN:HB3	1:a:496:THR:HG21	1.79	0.64
1:b:334:LEU:HD12	1:b:377:ARG:HH21	1.62	0.64
1:c:227:LEU:O	1:c:250:LEU:HA	1.98	0.64
1:c:261:PRO:HD2	1:c:264:TYR:HB2	1.80	0.64
1:e:517:LEU:H	1:e:517:LEU:HD12	1.61	0.64
1:e:580:ARG:HH22	1:f:595:SER:HB2	1.62	0.64
1:h:9:ARG:NH1	1:h:36:ILE:HA	2.10	0.64
1:l:230:ARG:HH11	1:l:230:ARG:HB3	1.62	0.64
1:l:335:LYS:HE2	1:l:371:VAL:HG11	1.79	0.64
1:m:30:VAL:HG22	1:m:74:LEU:HG	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:129:PHE:HA	1:m:137:VAL:HG22	1.80	0.64
1:m:676:GLU:HA	1:m:676:GLU:OE1	1.98	0.64
1:A:43:VAL:HG12	1:A:45:PHE:O	1.98	0.64
1:B:19:LEU:HA	1:B:32:PRO:CB	2.28	0.64
1:C:164:GLN:HB3	1:C:204:TYR:HA	1.80	0.64
1:F:481:VAL:HG11	1:F:487:VAL:HG13	1.80	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:J:759:LEU:HD22	1:K:768:MET:HG3	1.80	0.64
1:K:109:ILE:HD12	1:K:153:PRO:CG	2.28	0.64
1:L:77:ILE:HG22	1:L:78:THR:H	1.59	0.64
1:L:77:ILE:CG2	1:L:78:THR:H	2.10	0.64
1:L:182:CYS:SG	1:L:208:VAL:CB	2.86	0.64
1:L:332:LEU:HD21	1:L:407:MET:HB2	1.77	0.64
1:L:408:LEU:H	1:L:408:LEU:HD12	1.62	0.64
1:M:8:ILE:HG22	1:M:40:ASN:ND2	2.13	0.64
1:M:230:ARG:HB2	1:M:265:GLU:HB3	1.80	0.64
1:M:766:ARG:HD2	1:N:768:MET:HE1	1.79	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: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:155:LYS:H	1:Y:155:LYS:HZ2	1.46	0.64
1:Y:481:VAL:HG11	1:Y:487:VAL:HG11	1.80	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:d:252:THR:H	1:d:254:GLN:NE2	1.95	0.64
1:f:152:ILE:HD11	1:f:156:GLU:OE2	1.98	0.64
1:g:46:ALA:N	1:g:47:PRO:CD	2.61	0.64
1:g:332:LEU:HD11	1:g:379:ALA:HB2	1.77	0.64
1:h:654:LEU:CD1	1:i:662:ILE:HD13	2.27	0.64
1:j:676:GLU:HA	1:j:676:GLU:OE1	1.98	0.64
1:k:221:LEU:CD2	1:k:256:THR:CG2	2.74	0.64
1:l:90:ILE:HD12	1:l:90:ILE:O	1.98	0.64
1:D:113:GLN:O	1:D:114:VAL:HG13	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:GLY:C	1:G:320:ILE:HD13	2.23	0.64
1:H:472:ASP:HA	1:H:493:GLU:CB	2.27	0.64
1:J:337:LEU:HD22	1:J:357:TRP:HZ3	1.63	0.64
1:K:115:VAL:O	1:K:118:ASN:HB3	1.98	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: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:36:ILE:O	1:Q:36:ILE:CD1	2.43	0.64
1:Q:128:ASP:HB2	1:Q:155:LYS:HB3	1.79	0.64
1:Q:384:GLN:H	1:Q:384:GLN:NE2	1.96	0.64
1:R:109:ILE:CD1	1:R:153:PRO:CG	2.65	0.64
1:R:146:GLU:HA	1:R:146:GLU:OE1	1.98	0.64
1:S:49:ARG:NH2	1:T:8:ILE:HD12	2.13	0.64
1:S:184:ASP:HB2	1:S:189:GLY:O	1.97	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:X:522:PHE:C	1:X:522:PHE:CD2	2.75	0.64
1:Y:8:ILE:HG22	1:Y:40:ASN:ND2	2.13	0.64
1:a:73:VAL:N	1:a:84:ARG:HB2	2.10	0.64
1:a:794:LYS:O	1:a:798:MET:HG2	1.98	0.64
1:b:601:MET:HG2	1:b:622:ALA:CB	2.27	0.64
1:c:221:LEU:HA	1:c:253:VAL:HG13	1.78	0.64
1:f:8:ILE:HD12	1:f:8:ILE:O	1.96	0.64
1:f:109:ILE:HD12	1:f:153:PRO:CB	2.27	0.64
1:f:204:TYR:O	1:f:206:PRO:HD3	1.98	0.64
1:g:115:VAL:O	1:g:118:ASN:HB3	1.97	0.64
1:i:227:LEU:CB	1:i:251:VAL:HG12	2.25	0.64
1:k:529:ILE:CD1	1:k:537:LEU:HB2	2.28	0.64
1:l:654:LEU:HD11	1:m:662:ILE:HG21	1.80	0.64
1:m:180:LYS:C	1:m:182:CYS:N	2.55	0.64
1:A:45:PHE:HB3	1:A:47:PRO:HD2	1.78	0.63
1:G:206:PRO:HB2	1:G:209:PHE:CD2	2.33	0.63
1:K:517:LEU:O	1:K:545:TRP:HH2	1.82	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:Q:354:GLY:C	1:R:328:GLU:HG3	2.24	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:60:ILE:HD13	1:S:93:ALA:HA	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:227:LEU:HB2	1:S:251:VAL:CG1	2.27	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:b:221:LEU:CD2	1:b:256:THR:HG21	2.28	0.63
1:b:380:ILE:CD1	1:b:388:ILE:HD13	2.28	0.63
1:c:326:LEU:HD11	1:c:359:ILE:HD12	1.79	0.63
1:d:284:ILE:H	1:d:284:ILE:HD13	1.63	0.63
1:e:3:THR:HG22	1:e:50:MET:HE2	1.81	0.63
1:e:605:GLY:O	1:e:623:ARG:HB2	1.97	0.63
1:f:337:LEU:HD23	1:f:337:LEU:N	2.13	0.63
1:j:523:PHE:CD1	1:j:545:TRP:NE1	2.66	0.63
1:m:116:LEU:CB	1:m:117:PRO:CD	2.74	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:E:189:GLY:O	1:E:196:TRP:HZ2	1.80	0.63
1:K:220:ILE:CD1	1:K:256:THR:HA	2.28	0.63
1:L:115:VAL:N	1:L:118:ASN:HD22	1.96	0.63
1:L:771:ILE:HD13	1:L:774:ARG:HH11	1.62	0.63
1:O:176:LEU:HB2	1:O:196:TRP:HB2	1.79	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:b:154:GLN:HG3	1:b:155:LYS:HG3	1.80	0.63
1:b:452:ARG:HH11	1:b:452:ARG:HG3	1.62	0.63
1:c:273:ILE:HG23	1:c:310:LEU:HD11	1.80	0.63
1:d:495:PHE:HB3	1:d:514:LEU:HD11	1.79	0.63
1:e:382:LEU:HB2	1:e:404:SER:O	1.98	0.63
1:f:16:ILE:HA	1:f:34:THR:OG1	1.98	0.63
1:g:543:TYR:CE2	1:g:575:ILE:HG21	2.32	0.63
1:j:8:ILE:H	1:j:8:ILE:CD1	2.11	0.63
1:k:115:VAL:HB	1:k:148:PRO:HA	1.78	0.63
1:k:176:LEU:HD13	1:k:209:PHE:CD1	2.34	0.63
1:l:332:LEU:CD2	1:l:407:MET:HB2	2.26	0.63
1:m:389:TYR:CE1	1:m:457:VAL:HA	2.34	0.63
1:A:18:VAL:CG1	1:A:48:VAL:HG22	2.25	0.63
1:C:46:ALA:N	1:C:47:PRO:CD	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:116:LEU:HB3	1:C:117:PRO:CD	2.29	0.63
1:D:85:HIS:NE2	1:D:102:GLY:HA3	2.13	0.63
1:D:251:VAL:HG23	1:D:254:GLN:NE2	2.14	0.63
1:F:328:GLU:OE1	1:F:328:GLU:HA	1.97	0.63
1:I:227:LEU:CB	1:I:251:VAL:HG12	2.26	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:L:474:ARG:HG3	1:L:492:GLU:HB2	1.79	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:46:ALA:N	1:R:47:PRO:HD3	2.13	0.63
1:R:115:VAL:H	1:R:118:ASN:HD22	1.44	0.63
1:R:359:ILE:HD12	1:R:359:ILE:O	1.98	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:X:180:LYS:C	1:X:182:CYS:N	2.56	0.63
1:Z:14:HIS:ND1	1:Z:36:ILE:HG22	2.13	0.63
1:a:771:ILE:HA	1:a:774:ARG:NH1	2.14	0.63
1:b:164:GLN:HB3	1:b:204:TYR:HA	1.80	0.63
1:b:326:LEU:CD2	1:b:333:LEU:HG	2.24	0.63
1:c:90:ILE:HD12	1:c:90:ILE:O	1.98	0.63
1:d:54:PRO:HB2	1:d:55:PRO:CD	2.28	0.63
1:d:230:ARG:HG2	1:d:248:GLU:HG2	1.78	0.63
1:f:252:THR:O	1:f:254:GLN:N	2.31	0.63
1:h:221:LEU:HA	1:h:253:VAL:HG13	1.81	0.63
1:l:252:THR:O	1:l:254:GLN:N	2.31	0.63
1:C:224:LYS:O	1:C:272:PRO:HD3	1.97	0.63
1:C:224:LYS:HA	1:C:272:PRO:HG3	1.80	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:E:60:ILE:H	1:E:60:ILE:HD12	1.63	0.63
1:E:326:LEU:HD13	1:E:360:ARG:HA	1.80	0.63
1:F:60:ILE:H	1:F:60:ILE:HD12	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:517:LEU:H	1:F:517:LEU:HD12	1.63	0.63
1:G:221:LEU:HD22	1:G:256:THR:HG21	1.78	0.63
1:I:123:LEU:HG	1:I:143:TRP:HB2	1.81	0.63
1:K:164:GLN:CD	1:K:204:TYR:CB	2.70	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:T:490:ASP:CG	1:T:491:PRO:HD2	2.23	0.63
1:U:73:VAL:N	1:U:84:ARG:HB2	2.06	0.63
1:W:16:ILE:HA	1:W:34:THR:OG1	1.98	0.63
1:W:30:VAL:HG13	1:W:74:LEU:HD11	1.80	0.63
1:W:73:VAL:HG11	1:W:82:ARG:HB2	1.80	0.63
1:W:175:ARG:NE	1:W:263:VAL:HG22	2.14	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:b:3:THR:CG2	1:b:50:MET:HE1	2.28	0.63
1:b:417:LYS:O	1:b:418:GLU:HB2	1.97	0.63
1:d:18:VAL:CG1	1:d:48:VAL:HG22	2.25	0.63
1:d:164:GLN:CD	1:d:204:TYR:HB3	2.24	0.63
1:e:57:HIS:O	1:e:99:LEU:HD11	1.98	0.63
1:f:115:VAL:O	1:f:118:ASN:HB3	1.99	0.63
1:f:175:ARG:HA	1:f:196:TRP:O	1.98	0.63
1:g:4:GLU:OE2	1:g:6:ALA:HB2	1.98	0.63
1:g:123:LEU:HA	1:g:158:GLU:HA	1.80	0.63
1:g:182:CYS:SG	1:g:208:VAL:HG21	2.38	0.63
1:h:5:GLU:OE1	1:h:43:VAL:HG11	1.97	0.63
1:h:77:ILE:HG13	1:h:79:GLY:H	1.62	0.63
1:k:130:GLU:HA	1:k:137:VAL:H	1.63	0.63
1:l:564:VAL:CG2	1:l:631:ASN:HD22	2.10	0.63
1:A:330:GLN:HA	1:A:330:GLN:OE1	1.99	0.63
1:D:125:ALA:HB3	1:D:140:GLY:HA2	1.79	0.63
1:D:653:ALA:HB3	1:E:662:ILE:HD11	1.78	0.63
1:F:796:LYS:HA	1:F:799:THR:HG22	1.80	0.63
1:G:77:ILE:HG13	1:G:79:GLY:H	1.64	0.63
1:G:384:GLN:H	1:G:384:GLN:NE2	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:77:ILE:HG13	1:J:79:GLY:H	1.64	0.63
1:K:298:GLN:HG3	1:L:305:GLU:CD	2.23	0.63
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:61:VAL:HG13	1:S:65:VAL:HG23	1.81	0.63
1:S:526:VAL:HG22	1:S:540:GLN:HG2	1.81	0.63
1:T:176:LEU:HD13	1:T:209:PHE:CD1	2.27	0.63
1:U:4:GLU:OE2	1:U:6:ALA:HB2	1.98	0.63
1:U:221:LEU:HD22	1:U:256:THR:CG2	2.28	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:287:PRO:HA	1:a:314:GLU:OE2	1.99	0.63
1:b:185:ARG:HH22	1:b:207:ALA:HB3	1.64	0.63
1:c:452:ARG:HH11	1:c:452:ARG:HG3	1.64	0.63
1:d:414:LEU:HD23	1:d:455:THR:HB	1.79	0.63
1:f:58:TYR:HD1	1:f:99:LEU:HD12	1.63	0.63
1:g:16:ILE:HA	1:g:34:THR:OG1	1.99	0.63
1:g:766:ARG:O	1:g:770:LEU:HB2	1.99	0.63
1:i:745:LYS:CG	1:j:753:ILE:HD13	2.28	0.63
1:i:755:THR:HG21	1:j:761:ARG:HG2	1.80	0.63
1:j:121:LEU:HB2	1:j:145:PHE:HB3	1.81	0.63
1:k:8:ILE:HA	1:k:40:ASN:HD22	1.63	0.63
1:k:90:ILE:HD13	1:k:90:ILE:H	1.62	0.63
1:k:485:GLU:HG2	1:k:486:LEU:N	2.13	0.63
1:l:5:GLU:HG2	1:l:43:VAL:CG2	2.29	0.63
1:m:495:PHE:HB3	1:m:514:LEU:HD11	1.79	0.63
1:A:18:VAL:H	1:A:48:VAL:CG1	2.10	0.63
1:A:806:THR:HG21	1:m:807:ILE:HD13	1.81	0.63
1:B:687:ARG:HG2	1:B:691:GLN:HE21	1.61	0.63
1:E:771:ILE:CD1	1:E:774:ARG:HH11	2.09	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:H:227:LEU:O	1:H:250:LEU:HA	1.99	0.63
1:H:284:ILE:HD13	1:H:300:ARG:O	1.99	0.63
1:N:363:LEU:HD13	1:N:364:GLU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Y:116:LEU:C	1:Y:118:ASN:H	2.06	0.63
1:a:354:GLY:O	1:b:328:GLU:HG3	1.98	0.63
1:b:224:LYS:HA	1:b:272:PRO:HG3	1.81	0.63
1:c:273:ILE:CD1	1:c:316:LEU:HD21	2.29	0.63
1:d:152:ILE:HD13	1:d:152:ILE:O	1.99	0.63
1:d:653:ALA:HB3	1:e:662:ILE:HD13	1.81	0.63
1:e:175:ARG:HE	1:e:263:VAL:HG22	1.64	0.63
1:f:46:ALA:N	1:f:47:PRO:HD3	2.14	0.63
1:g:8:ILE:HG22	1:g:40:ASN:HD21	1.61	0.63
1:h:268:LEU:HD13	1:h:269:GLY:H	1.63	0.63
1:k:87:ASP:CG	1:k:88:GLN:H	2.05	0.63
1:m:224:LYS:HA	1:m:272:PRO:HG3	1.79	0.63
1:m:381:PRO:CA	1:m:405:THR:HG22	2.23	0.63
1:A:339:PRO:HD2	1:A:370:LYS:HB3	1.79	0.63
1:D:175:ARG:HG3	1:D:215:LEU:HD23	1.80	0.63
1:E:418:GLU:OE2	1:E:452:ARG:NH1	2.32	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:G:490:ASP:CG	1:G:491:PRO:HD2	2.24	0.63
1:I:340:LEU:HD23	1:I:353:ALA:H	1.64	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: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:b:384:GLN:H	1:b:384:GLN:NE2	1.96	0.63
1:d:46:ALA:N	1:d:47:PRO:HD3	2.14	0.63
1:d:115:VAL:N	1:d:118:ASN:HD22	1.96	0.63
1:d:217:ASP:HB2	1:d:258:ALA:HA	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:46:ALA:N	1:e:47:PRO:CD	2.62	0.63
1:e:360:ARG:HG3	1:e:361:GLY:N	2.13	0.63
1:f:175:ARG:NE	1:f:263:VAL:HG22	2.13	0.63
1:g:260:VAL:HB	1:g:263:VAL:HA	1.80	0.63
1:h:311:GLN:HB3	1:h:312:PRO:HD2	1.80	0.63
1:i:382:LEU:H	1:i:405:THR:HG22	1.63	0.63
1:j:459:SER:CB	1:j:488:THR:HG22	2.18	0.63
1:m:494:GLN:NE2	1:m:494:GLN:HA	2.13	0.63
1:A:84:ARG:HH22	1:A:101:PRO:HD2	1.64	0.63
1:A:227:LEU:HB2	1:A:251:VAL:CG1	2.27	0.63
1:B:73:VAL:H	1:B:84:ARG:HB2	1.62	0.63
1:B:221:LEU:CD2	1:B:256:THR:HG21	2.28	0.63
1:B:273:ILE:HG13	1:B:308:PHE:HB3	1.80	0.63
1:C:260:VAL:HA	1:C:264:TYR:H	1.63	0.63
1:D:8:ILE:HA	1:D:40:ASN:HD22	1.64	0.63
1:D:46:ALA:N	1:D:47:PRO:CD	2.62	0.63
1:D:167:VAL:O	1:D:201:VAL:HA	1.99	0.63
1:E:171:ASN:O	1:E:216:VAL:HA	1.99	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: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:L:807:ILE:HD12	1:M:806:THR:HG21	1.81	0.63
1:M:185:ARG:HH22	1:M:207:ALA:HB3	1.63	0.63
1:M:326:LEU:HD13	1:M:360:ARG:HA	1.79	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:11:PRO:HB2	1:R:12:PRO:HD3	1.80	0.63
1:R:115:VAL:O	1:R:118:ASN:HB3	1.98	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:267:VAL:O	1:a:268:LEU:HB2	1.99	0.63
1:b:64:PRO:HA	1:b:111:PRO:HD2	1.80	0.63
1:b:796:LYS:HA	1:b:799:THR:HG22	1.81	0.63
1:c:472:ASP:HA	1:c:493:GLU:HB3	1.80	0.63
1:d:8:ILE:O	1:d:8:ILE:HD12	1.98	0.63
1:e:36:ILE:HD13	1:e:36:ILE:O	1.99	0.63
1:e:579:VAL:HG13	1:e:599:ILE:HD12	1.81	0.63
1:f:11:PRO:HB2	1:f:12:PRO:HD3	1.79	0.63
1:f:180:LYS:C	1:f:182:CYS:H	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:8:ILE:O	1:g:8:ILE:HD12	1.98	0.63
1:g:327:SER:HB2	1:g:331:GLY:HA2	1.80	0.63
1:h:490:ASP:CG	1:h:491:PRO:HD2	2.24	0.63
1:A:18:VAL:N	1:A:48:VAL:HG13	2.10	0.63
1:A:221:LEU:CD2	1:A:256:THR:HG21	2.28	0.63
1:B:36:ILE:HD11	1:B:58:TYR:HE1	1.63	0.63
1:B:45:PHE:HB3	1:B:47:PRO:HD2	1.79	0.63
1:D:121:LEU:HB2	1:D:145:PHE:HB3	1.81	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:G:90:ILE:O	1:G:90:ILE:HD12	1.99	0.63
1:G:120:ALA:HB3	1:G:162:ILE:HG13	1.79	0.63
1:K:67:ARG:HG2	1:K:108:ASP:HB3	1.81	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:Z:49:ARG:CZ	1:a:8:ILE:HD12	2.28	0.63
1:a:221:LEU:CD2	1:a:256:THR:CG2	2.77	0.63
1:a:419:LEU:CD2	1:a:422:GLY:H	2.12	0.63
1:a:653:ALA:HB3	1:b:662:ILE:HD11	1.74	0.63
1:b:360:ARG:HG3	1:b:361:GLY:H	1.60	0.63
1:d:5:GLU:HG2	1:d:43:VAL:CG2	2.28	0.63
1:d:419:LEU:HD23	1:d:421:SER:H	1.64	0.63
1:e:77:ILE:HG13	1:e:79:GLY:N	2.10	0.63
1:e:175:ARG:HB2	1:e:213:LEU:O	1.99	0.63
1:f:73:VAL:N	1:f:84:ARG:HB2	2.12	0.63
1:i:36:ILE:O	1:i:36:ILE:HG13	1.99	0.63
1:j:407:MET:SD	1:j:407:MET:N	2.70	0.63
1:k:542:ALA:HB3	1:k:639:ASP:HB2	1.79	0.63
1:l:228:HIS:HB3	1:l:267:VAL:HB	1.80	0.63
1:l:526:VAL:HG22	1:l:540:GLN:HG2	1.81	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:485:GLU:HG2	1:B:486:LEU:N	2.14	0.62
1:D:8:ILE:O	1:D:8:ILE:HD12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:16:ILE:HA	1:E:34:THR:OG1	1.99	0.62
1:E:273:ILE:CD1	1:E:316:LEU:HD21	2.29	0.62
1:F:22:ASN:ND2	1:G:39:ASP:HB3	2.14	0.62
1:F:337:LEU:HD22	1:F:357:TRP:CZ3	2.34	0.62
1:F:523:PHE:CE1	1:F:568:VAL:HG12	2.34	0.62
1:G:529:ILE:CD1	1:G:537:LEU:HB2	2.28	0.62
1:J:120:ALA:O	1:J:161:GLU:HA	1.96	0.62
1:K:154:GLN:HG3	1:K:155:LYS:NZ	2.14	0.62
1:L:319:GLY:C	1:L:320:ILE:HD13	2.22	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:332:LEU:HB2	1:a:377:ARG:HB3	1.80	0.62
1:b:60:ILE:HD13	1:b:60:ILE:N	2.14	0.62
1:b:337:LEU:HD22	1:b:357:TRP:CZ3	2.31	0.62
1:d:587:THR:HG23	1:d:590:ASP:CB	2.29	0.62
1:f:22:ASN:HD21	1:g:39:ASP:HB3	1.64	0.62
1:f:77:ILE:HG13	1:f:79:GLY:N	2.11	0.62
1:f:224:LYS:O	1:f:272:PRO:HD3	1.99	0.62
1:g:766:ARG:HD2	1:h:768:MET:CE	2.28	0.62
1:g:802:LEU:HD12	1:g:806:THR:HG22	1.81	0.62
1:h:43:VAL:HG12	1:h:45:PHE:O	1.99	0.62
1:h:123:LEU:HD21	1:h:143:TRP:HB2	1.81	0.62
1:i:184:ASP:HB2	1:i:189:GLY:O	1.98	0.62
1:j:130:GLU:HA	1:j:137:VAL:H	1.64	0.62
1:j:227:LEU:CB	1:j:251:VAL:HG12	2.29	0.62
1:j:239:ARG:HH21	1:j:257:GLU:HG2	1.64	0.62
1:A:125:ALA:HB3	1:A:140:GLY:HA2	1.81	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:I:10:ILE:HG23	1:I:11:PRO:HD2	1.80	0.62
1:K:154:GLN:CG	1:K:155:LYS:HE3	2.29	0.62
1:K:251:VAL:HG23	1:K:254:GLN:NE2	2.14	0.62
1:N:152:ILE:HD13	1:N:152:ILE:N	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:U:5:GLU:HG2	1:U:43:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:c:382:LEU:H	1:c:405:THR:HG22	1.65	0.62
1:c:389:TYR:CE1	1:c:457:VAL:HA	2.32	0.62
1:c:511:ARG:HH22	1:c:517:LEU:HD11	1.63	0.62
1:d:676:GLU:HA	1:d:676:GLU:OE1	1.98	0.62
1:e:4:GLU:OE2	1:e:6:ALA:HB2	1.99	0.62
1:h:310:LEU:H	1:h:310:LEU:HD12	1.63	0.62
1:j:14:HIS:HB3	1:j:56:ARG:CB	2.29	0.62
1:j:14:HIS:CB	1:j:56:ARG:HB2	2.29	0.62
1:k:8:ILE:HG22	1:k:40:ASN:ND2	2.14	0.62
1:B:281:TYR:CE1	1:B:321:GLN:HB2	2.35	0.62
1:C:65:VAL:HG12	1:C:110:THR:HG22	1.81	0.62
1:C:474:ARG:HG3	1:C:492:GLU:HB2	1.81	0.62
1:E:226:ALA:HB3	1:E:270:VAL:HG13	1.81	0.62
1:E:452:ARG:HH12	1:E:454:LYS:HA	1.64	0.62
1:H:8:ILE:O	1:H:8:ILE:HD12	1.99	0.62
1:H:109:ILE:HD11	1:H:153:PRO:HB2	1.78	0.62
1:J:452:ARG:NH2	1:J:458:VAL:HG22	2.13	0.62
1:K:381:PRO:CA	1:K:405:THR:HG22	2.28	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:W:654:LEU:HD11	1:X:662:ILE:HG21	1.80	0.62
1:X:472:ASP:HA	1:X:493:GLU:HB3	1.81	0.62
1:X:573:LYS:HE3	1:Y:522:PHE:CZ	2.34	0.62
1:X:580:ARG:HH22	1:Y:595:SER:HB2	1.64	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:b:221:LEU:HD21	1:b:256:THR:HG21	1.81	0.62
1:d:69:THR:HA	1:d:106:GLU:HB3	1.81	0.62
1:e:276:LEU:HB2	1:e:280:HIS:ND1	2.15	0.62
1:f:727:GLU:HG3	1:g:735:ILE:HD13	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:109:ILE:CD1	1:g:153:PRO:HG2	2.29	0.62
1:j:281:TYR:CE1	1:j:321:GLN:HB2	2.33	0.62
1:C:279:ARG:HG3	1:C:280:HIS:HD2	1.63	0.62
1:H:45:PHE:HB3	1:H:47:PRO:HD2	1.82	0.62
1:I:85:HIS:NE2	1:I:102:GLY:HA3	2.14	0.62
1:K:311:GLN:HB3	1:K:312:PRO:HD2	1.81	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
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:O	1:Y:359:ILE:HD12	2.00	0.62
1:Z:54:PRO:CB	1:Z:55:PRO:HD3	2.23	0.62
1:Z:185:ARG:HG3	1:Z:206:PRO:HB3	1.80	0.62
1:a:377:ARG:NH1	1:a:408:LEU:O	2.32	0.62
1:b:539:LEU:HD22	1:b:643:VAL:HG22	1.82	0.62
1:c:191:VAL:HG12	1:c:194:GLU:HB2	1.81	0.62
1:e:130:GLU:H	1:e:137:VAL:CG1	2.12	0.62
1:f:340:LEU:HD23	1:f:352:GLN:HA	1.82	0.62
1:g:185:ARG:HG3	1:g:206:PRO:HB3	1.81	0.62
1:i:113:GLN:OE1	1:i:149:GLY:HA2	1.99	0.62
1:k:54:PRO:HB2	1:k:55:PRO:CD	2.25	0.62
1:l:182:CYS:SG	1:l:208:VAL:CG2	2.87	0.62
1:l:338:GLN:HB3	1:l:339:PRO:HD3	1.81	0.62
1:A:19:LEU:HA	1:A:32:PRO:CB	2.30	0.62
1:A:221:LEU:HD22	1:A:256:THR:CB	2.29	0.62
1:B:304:GLY:H	1:B:306:LYS:HZ1	1.47	0.62
1:B:771:ILE:HD13	1:B:774:ARG:NH1	2.15	0.62
1:D:326:LEU:HD21	1:D:333:LEU:HG	1.82	0.62
1:K:9:ARG:CZ	1:K:15:TYR:HB3	2.30	0.62
1:L:517:LEU:O	1:L:545:TRP:HH2	1.83	0.62
1:M:469:GLN:HB3	1:M:496:THR:HG21	1.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:b:90:ILE:HD13	1:b:90:ILE:H	1.64	0.62
1:e:252:THR:H	1:e:254:GLN:HE21	1.47	0.62
1:i:221:LEU:HD13	1:i:256:THR:HB	1.81	0.62
1:j:419:LEU:HD23	1:j:421:SER:H	1.64	0.62
1:k:6:ALA:N	1:k:7:ILE:HD12	2.13	0.62
1:l:8:ILE:H	1:l:8:ILE:CD1	2.11	0.62
1:l:58:TYR:CD1	1:l:98:PRO:HA	2.35	0.62
1:m:596:ALA:O	1:m:600:ARG:HB2	1.99	0.62
1:A:123:LEU:HD11	1:A:143:TRP:CD1	2.33	0.62
1:A:600:ARG:NH1	1:A:622:ALA:HB3	2.15	0.62
1:B:115:VAL:H	1:B:118:ASN:HD22	1.48	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:I:4:GLU:OE2	1:I:6:ALA:HB2	2.00	0.62
1:I:159:VAL:HG12	1:I:160:VAL:HG22	1.81	0.62
1:I:745:LYS:HG3	1:J:753:ILE:HD13	1.80	0.62
1:J:234:ASN:HA	1:J:243:HIS:O	2.00	0.62
1:L:5:GLU:CG	1:L:43:VAL:HG21	2.27	0.62
1:M:182:CYS:SG	1:M:208:VAL:CB	2.87	0.62
1:M:472:ASP:HA	1:M:493:GLU:HB3	1.82	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:54:PRO:CB	1:T:55:PRO:HD3	2.26	0.62
1:T:220:ILE:CD1	1:T:251:VAL:HG13	2.29	0.62
1:U:18:VAL:CG1	1:U:48:VAL:HG22	2.21	0.62
1:U:387:GLY:HA3	1:U:402:ILE:HG22	1.82	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:36:ILE:O	1:a:36:ILE:HG13	1.99	0.62
1:b:180:LYS:C	1:b:182:CYS:N	2.51	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:587:THR:HG23	1:c:590:ASP:HB2	1.81	0.62
1:f:472:ASP:HA	1:f:493:GLU:HB3	1.80	0.62
1:g:67:ARG:NH2	1:g:107:LYS:HA	2.09	0.62
1:h:8:ILE:O	1:h:8:ILE:HD12	1.98	0.62
1:i:123:LEU:HD11	1:i:143:TRP:HD1	1.65	0.62
1:k:5:GLU:CG	1:k:43:VAL:HG21	2.30	0.62
1:k:326:LEU:CD2	1:k:333:LEU:HG	2.25	0.62
1:l:67:ARG:HH21	1:l:107:LYS:HA	1.64	0.62
1:l:169:LYS:HG3	1:l:170:GLN:H	1.62	0.62
1:l:560:LYS:HD2	1:l:630:GLN:O	1.98	0.62
1:l:571:ALA:O	1:l:575:ILE:HG13	2.00	0.62
1:l:653:ALA:CB	1:m:662:ILE:CD1	2.70	0.62
1:m:384:GLN:H	1:m:384:GLN:HE21	1.47	0.62
1:A:14:HIS:NE2	1:A:16:ILE:CD1	2.62	0.62
1:C:43:VAL:HG12	1:C:45:PHE:O	2.00	0.62
1:C:242:LEU:HD23	1:C:242:LEU:H	1.64	0.62
1:C:415:TRP:CZ3	1:C:417:LYS:HB3	2.34	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:F:46:ALA:N	1:F:47:PRO:CD	2.62	0.62
1:F:152:ILE:HD12	1:F:152:ILE:O	1.99	0.62
1:G:649:ARG:HH21	1:H:655:GLN:HG2	1.64	0.62
1:H:587:THR:HG23	1:H:590:ASP:CB	2.29	0.62
1:I:10:ILE:H	1:I:10:ILE:HD12	1.64	0.62
1:J:230:ARG:HH11	1:J:230:ARG:HB3	1.65	0.62
1:J:517:LEU:H	1:J:517:LEU:HD12	1.64	0.62
1:K:382:LEU:HD13	1:K:387:GLY:HA2	1.81	0.62
1:M:15:TYR:HA	1:M:53:VAL:HB	1.80	0.62
1:M:676:GLU:HA	1:M:676:GLU:OE1	1.97	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:56:ARG:HH11	1:Q:99:LEU:HD23	1.64	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:S:394:LYS:CG	1:T:329:GLN:HG3	2.21	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: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:8:ILE:HG22	1:X:40:ASN:ND2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:24:ASN:HD22	1:X:30:VAL:HB	1.64	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:807:ILE:HD12	1:b:806:THR:HG21	1.82	0.62
1:c:180:LYS:C	1:c:182:CYS:N	2.55	0.62
1:c:377:ARG:NH1	1:c:408:LEU:O	2.33	0.62
1:e:221:LEU:HD22	1:e:256:THR:HB	1.81	0.62
1:f:60:ILE:HD12	1:f:92:LEU:O	2.00	0.62
1:g:221:LEU:CD2	1:g:256:THR:CG2	2.78	0.62
1:h:46:ALA:N	1:h:47:PRO:HD3	2.13	0.62
1:h:220:ILE:CD1	1:h:251:VAL:HG13	2.29	0.62
1:h:287:PRO:O	1:h:295:GLN:HB2	2.00	0.62
1:j:382:LEU:HD13	1:j:387:GLY:HA2	1.80	0.62
1:k:115:VAL:N	1:k:118:ASN:ND2	2.47	0.62
1:m:67:ARG:HH21	1:m:107:LYS:HA	1.65	0.62
1:m:130:GLU:CB	1:m:136:LYS:HA	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: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:D:165:ALA:CB	1:D:174:LEU:HD11	2.29	0.62
1:F:8:ILE:HD12	1:F:8:ILE:O	1.98	0.62
1:F:14:HIS:HB3	1:F:56:ARG:HB2	1.80	0.62
1:G:10:ILE:HD13	1:G:13:TYR:CE2	2.35	0.62
1:G:281:TYR:CE1	1:G:321:GLN:HB2	2.34	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:K:115:VAL:HA	1:K:147:GLY:O	2.00	0.62
1:K:128:ASP:HB2	1:K:155:LYS:HB3	1.82	0.62
1:K:204:TYR:O	1:K:206:PRO:HD3	1.99	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:L:794:LYS:O	1:L:798:MET:HG2	2.00	0.62
1:O:49:ARG:NH2	1:P:8:ILE:CD1	2.57	0.62
1:P:734:ARG:HH21	1:P:735:ILE:CD1	2.13	0.62
1:Q:159:VAL:HG12	1:Q:160:VAL:HG22	1.82	0.62
1:R:36:ILE:O	1:R:37:ARG:HG3	1.98	0.62
1:R:333:LEU:HB2	1:R:359:ILE:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O	1:U:359:ILE:HD12	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:b:28:VAL:HG12	1:b:30:VAL:HG23	1.80	0.62
1:b:377:ARG:NH1	1:b:408:LEU:O	2.33	0.62
1:c:16:ILE:HB	1:c:51:VAL:HB	1.82	0.62
1:d:326:LEU:HD21	1:d:333:LEU:HG	1.80	0.62
1:e:227:LEU:O	1:e:250:LEU:HA	1.99	0.62
1:f:227:LEU:HB2	1:f:251:VAL:CG1	2.30	0.62
1:j:6:ALA:N	1:j:7:ILE:HD12	2.14	0.62
1:k:419:LEU:CG	1:k:420:PRO:HD2	2.20	0.62
1:k:771:ILE:HD13	1:k:774:ARG:HH12	1.65	0.62
1:A:196:TRP:HA	1:A:196:TRP:CE3	2.35	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:C:5:GLU:HG2	1:C:43:VAL:HG21	1.82	0.62
1:D:14:HIS:CB	1:D:56:ARG:HB2	2.29	0.62
1:E:36:ILE:O	1:E:37:ARG:HG3	1.99	0.62
1:E:175:ARG:HB2	1:E:213:LEU:O	1.99	0.62
1:F:54:PRO:CB	1:F:55:PRO:HD3	2.13	0.62
1:G:54:PRO:CB	1:G:55:PRO:HD3	2.24	0.62
1:G:154:GLN:HG3	1:G:155:LYS:HG3	1.81	0.62
1:G:175:ARG:HG3	1:G:215:LEU:HD23	1.81	0.62
1:J:262:ASP:HB3	1:J:264:TYR:CE1	2.34	0.62
1:K:755:THR:HG21	1:L:761:ARG:HG2	1.82	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: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:10:ILE:HD13	1:a:13:TYR:CE2	2.35	0.62
1:a:221:LEU:HD22	1:a:256:THR:CG2	2.30	0.62
1:b:120:ALA:HB3	1:b:162:ILE:HG13	1.82	0.62
1:b:165:ALA:CB	1:b:174:LEU:HD11	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:332:LEU:HD23	1:b:358:LEU:HD11	1.82	0.62
1:d:394:LYS:HA	1:e:329:GLN:NE2	2.15	0.62
1:e:180:LYS:C	1:e:182:CYS:H	2.07	0.62
1:f:284:ILE:HD13	1:f:300:ARG:O	2.00	0.62
1:k:43:VAL:HG12	1:k:45:PHE:O	2.00	0.62
1:k:327:SER:HB2	1:k:331:GLY:HA2	1.82	0.62
1:l:15:TYR:HA	1:l:53:VAL:HB	1.81	0.62
1:l:164:GLN:NE2	1:l:204:TYR:HB3	2.15	0.62
1:l:328:GLU:OE1	1:l:328:GLU:CA	2.47	0.62
1:m:65:VAL:HG12	1:m:110:THR:CG2	2.30	0.62
1:A:120:ALA:HB2	1:A:164:GLN:HE22	1.63	0.62
1:A:755:THR:HG21	1:B:761:ARG:HG2	1.81	0.62
1:C:382:LEU:H	1:C:405:THR:HG22	1.65	0.62
1:G:332:LEU:HD21	1:G:407:MET:HB2	1.82	0.62
1:G:571:ALA:O	1:G:575:ILE:HG12	1.99	0.62
1:I:227:LEU:O	1:I:250:LEU:HA	2.00	0.62
1:J:43:VAL:HG12	1:J:45:PHE:O	2.00	0.62
1:J:73:VAL:N	1:J:84:ARG:HB2	2.14	0.62
1:J:185:ARG:NH1	1:J:206:PRO:HB3	2.15	0.62
1:K:67:ARG:CD	1:K:108:ASP:HB3	2.30	0.62
1:L:762:VAL:O	1:L:766:ARG:HB2	1.99	0.62
1:N:175:ARG:NE	1:N:263:VAL:HG22	2.14	0.62
1:S:36:ILE:C	1:S:36:ILE:HD13	2.25	0.62
1:S:73:VAL:N	1:S:84:ARG:HB2	2.14	0.62
1:S:511:ARG:NH2	1:S:517:LEU:HD11	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:164:GLN:NE2	1:X:204:TYR:HB2	2.13	0.62
1:X:185:ARG:HH22	1:X:207:ALA:HB3	1.65	0.62
1:Y:36:ILE:O	1:Y:36:ILE:HG13	1.99	0.62
1:Z:180:LYS:C	1:Z:182:CYS:N	2.56	0.62
1:Z:230:ARG:HG2	1:Z:248:GLU:HG2	1.80	0.62
1:a:5:GLU:CG	1:a:43:VAL:HG21	2.28	0.62
1:a:116:LEU:CB	1:a:117:PRO:HD2	2.19	0.62
1:a:221:LEU:HD21	1:a:256:THR:HG21	1.82	0.62
1:a:284:ILE:HD11	1:a:300:ARG:HB3	1.81	0.62
1:c:794:LYS:O	1:c:798:MET:HG2	1.99	0.62
1:d:8:ILE:HG22	1:d:40:ASN:ND2	2.14	0.62
1:d:152:ILE:HD11	1:d:156:GLU:OE2	2.00	0.62
1:g:30:VAL:HG22	1:g:74:LEU:HG	1.81	0.62
1:g:182:CYS:SG	1:g:208:VAL:CG2	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:337:LEU:HD22	1:g:357:TRP:CZ3	2.35	0.62
1:i:261:PRO:HD2	1:i:264:TYR:HB2	1.82	0.62
1:i:580:ARG:HH22	1:j:595:SER:HB2	1.62	0.62
1:j:221:LEU:HA	1:j:253:VAL:HG13	1.82	0.62
1:l:394:LYS:HG2	1:m:329:GLN:CG	2.27	0.62
1:m:100:TYR:HB3	1:m:101:PRO:HD2	1.80	0.62
1:m:472:ASP:HA	1:m:493:GLU:CB	2.28	0.62
1:B:601:MET:HG3	1:B:622:ALA:HB2	1.82	0.61
1:H:229:LEU:O	1:H:248:GLU:HA	2.00	0.61
1:H:330:GLN:OE1	1:H:330:GLN:HA	1.99	0.61
1:I:221:LEU:HD13	1:I:256:THR:HB	1.82	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: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
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:R:522:PHE:CD2	1:R:522:PHE:C	2.77	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:T:354:GLY:C	1:U:328:GLU:HG3	2.25	0.61
1:U:221:LEU:HD22	1:U:256:THR:CB	2.29	0.61
1:U:252:THR:H	1:U:254:GLN:NE2	1.98	0.61
1:V:14:HIS:HB3	1:V:56:ARG:HB2	1.81	0.61
1:V:16:ILE:HB	1:V:51:VAL:HB	1.80	0.61
1:X:762:VAL:O	1:X:766:ARG:HB2	2.00	0.61
1:a:176:LEU:HB2	1:a:196:TRP:HB2	1.81	0.61
1:a:533:ASP:OD1	1:a:587:THR:HA	2.00	0.61
1:b:182:CYS:SG	1:b:208:VAL:CG2	2.88	0.61
1:c:464:HIS:CD2	1:c:484:PRO:HB3	2.35	0.61
1:d:261:PRO:HD2	1:d:264:TYR:HB2	1.81	0.61
1:g:221:LEU:HD21	1:g:256:THR:HG21	1.82	0.61
1:h:123:LEU:HA	1:h:158:GLU:HA	1.82	0.61
1:h:252:THR:O	1:h:254:GLN:N	2.33	0.61
1:i:358:LEU:HD13	1:i:377:ARG:NH1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:745:LYS:CG	1:j:753:ILE:HD11	2.19	0.61
1:m:286:ASP:HB3	1:m:296:LEU:HA	1.82	0.61
1:A:394:LYS:HG2	1:B:329:GLN:CG	2.30	0.61
1:B:377:ARG:NH1	1:B:408:LEU:O	2.32	0.61
1:C:408:LEU:HD12	1:C:408:LEU:H	1.64	0.61
1:D:45:PHE:HB3	1:D:47:PRO:HD2	1.81	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: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:R:490:ASP:CG	1:R:491:PRO:HD2	2.24	0.61
1:T:14:HIS:HB3	1:T:56:ARG:HB2	1.80	0.61
1:T:284:ILE:HD13	1:T:300:ARG:O	1.99	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:185:ARG:NH1	1:a:206:PRO:HB3	2.16	0.61
1:b:587:THR:HG23	1:b:590:ASP:HB3	1.80	0.61
1:c:113:GLN:O	1:c:114:VAL:HG13	2.00	0.61
1:c:284:ILE:HD13	1:c:300:ARG:O	1.99	0.61
1:d:418:GLU:OE2	1:d:452:ARG:NH1	2.33	0.61
1:e:729:ARG:HB2	1:e:729:ARG:NH1	2.16	0.61
1:g:18:VAL:HG13	1:g:48:VAL:CG2	2.19	0.61
1:i:262:ASP:HB3	1:i:264:TYR:CE1	2.35	0.61
1:m:507:ARG:HB2	1:m:510:ALA:HB2	1.81	0.61
1:A:384:GLN:H	1:A:384:GLN:NE2	1.97	0.61
1:E:785:GLN:HA	1:F:790:VAL:HG21	1.81	0.61
1:H:196:TRP:HA	1:H:196:TRP:HE3	1.63	0.61
1:I:600:ARG:NH1	1:I:622:ALA:HB3	2.15	0.61
1:J:288:MET:HE1	1:J:313:GLY:H	1.65	0.61
1:K:527:ILE:HD13	1:K:539:LEU:O	1.98	0.61
1:L:4:GLU:OE2	1:L:6:ALA:HB2	1.99	0.61
1:L:244:ARG:HB3	1:M:221:LEU:CD2	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:563:SER:HB3	1:b:520:PRO:HG3	1.80	0.61
1:b:20:ASP:N	1:b:49:ARG:HD3	2.15	0.61
1:b:124:LYS:HG2	1:b:157:VAL:O	2.01	0.61
1:b:469:GLN:HB3	1:b:496:THR:HG21	1.80	0.61
1:d:60:ILE:N	1:d:60:ILE:HD13	2.15	0.61
1:d:152:ILE:CD1	1:d:152:ILE:H	2.12	0.61
1:e:284:ILE:HD11	1:e:300:ARG:HB3	1.82	0.61
1:f:46:ALA:N	1:f:47:PRO:CD	2.64	0.61
1:f:273:ILE:HG23	1:f:310:LEU:HD11	1.81	0.61
1:h:5:GLU:CG	1:h:43:VAL:HG21	2.29	0.61
1:k:46:ALA:N	1:k:47:PRO:CD	2.64	0.61
1:k:228:HIS:NE2	1:k:312:PRO:HB3	2.15	0.61
1:k:476:LYS:HE2	1:l:485:GLU:HG3	1.83	0.61
1:l:796:LYS:HA	1:l:799:THR:HG22	1.81	0.61
1:m:387:GLY:HA3	1:m:402:ILE:HG22	1.82	0.61
1:A:402:ILE:HD13	1:A:402:ILE:H	1.65	0.61
1:D:245:THR:O	1:E:221:LEU:HD23	2.00	0.61
1:G:394:LYS:HG2	1:H:329:GLN:HG3	1.81	0.61
1:H:273:ILE:HD12	1:H:316:LEU:HD21	1.82	0.61
1:I:204:TYR:O	1:I:206:PRO:HD3	1.99	0.61
1:J:46:ALA:N	1:J:47:PRO:CD	2.63	0.61
1:J:199:ARG:HH21	1:J:258:ALA:HB3	1.64	0.61
1:K:262:ASP:HB3	1:K:264:TYR:CE1	2.35	0.61
1:L:653:ALA:CB	1:M:662:ILE:HD12	2.29	0.61
1:M:5:GLU:HG2	1:M:43:VAL:HG21	1.82	0.61
1:M:481:VAL:HG11	1:M:487:VAL:CG1	2.30	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
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:H	1:R:408:LEU:HD12	1.65	0.61
1:R:564:VAL:CG2	1:R:631:ASN:HD22	2.14	0.61
1:T:152:ILE:O	1:T:152:ILE:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:419:LEU:HG	1:U:420:PRO:CD	2.19	0.61
1:W:243:HIS:HE2	1:W:249:TRP:CG	2.18	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:Z:745:LYS:HG3	1:a:753:ILE:CD1	2.29	0.61
1:a:182:CYS:SG	1:a:208:VAL:CG2	2.88	0.61
1:b:183:PHE:HE2	1:b:188:LYS:HA	1.65	0.61
1:b:419:LEU:HD12	1:b:494:GLN:HE21	1.65	0.61
1:d:132:LYS:HZ2	1:d:152:ILE:HD11	1.65	0.61
1:d:185:ARG:HH22	1:d:207:ALA:HB3	1.65	0.61
1:e:221:LEU:HA	1:e:253:VAL:HG13	1.83	0.61
1:f:382:LEU:HD13	1:f:387:GLY:HA2	1.82	0.61
1:g:60:ILE:HG13	1:g:92:LEU:O	2.01	0.61
1:h:46:ALA:N	1:h:47:PRO:CD	2.63	0.61
1:h:90:ILE:N	1:h:90:ILE:CD1	2.60	0.61
1:h:176:LEU:HB2	1:h:196:TRP:HB2	1.83	0.61
1:i:208:VAL:HG23	1:i:209:PHE:HD2	1.66	0.61
1:k:109:ILE:HD12	1:k:153:PRO:CB	2.30	0.61
1:k:180:LYS:HD2	1:k:208:VAL:HG12	1.81	0.61
1:k:704:LYS:HD2	1:l:712:MET:HB3	1.81	0.61
1:l:54:PRO:CB	1:l:55:PRO:HD3	2.14	0.61
1:l:771:ILE:HD13	1:l:774:ARG:NH1	2.15	0.61
1:m:30:VAL:HG13	1:m:74:LEU:HD11	1.83	0.61
1:A:180:LYS:C	1:A:182:CYS:N	2.57	0.61
1:A:654:LEU:CD1	1:B:662:ILE:HD13	2.31	0.61
1:D:4:GLU:OE2	1:D:6:ALA:HB2	1.99	0.61
1:D:77:ILE:HG12	1:D:80:GLN:C	2.23	0.61
1:E:249:TRP:CD1	1:E:249:TRP:N	2.68	0.61
1:H:10:ILE:H	1:H:10:ILE:HD12	1.64	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: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:155:LYS:HZ2	1:M:155:LYS:H	1.47	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	Interatomic distance (Å)	Clash overlap (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:HD13	1:S:402:ILE:H	1.66	0.61
1:X:221:LEU:CD2	1:X:256:THR:HG21	2.28	0.61
1:Y:332:LEU:HD21	1:Y:407:MET:HB3	1.81	0.61
1:Y:395:THR:HG21	1:Y:397:LYS:HE2	1.83	0.61
1:b:601:MET:HE3	1:b:606:PHE:HB3	1.82	0.61
1:c:45:PHE:HB3	1:c:47:PRO:HD2	1.83	0.61
1:c:803:GLY:HA3	1:c:806:THR:HB	1.81	0.61
1:e:70:GLN:HG2	1:e:104:VAL:HG12	1.83	0.61
1:e:579:VAL:HG13	1:e:599:ILE:CD1	2.30	0.61
1:f:36:ILE:O	1:f:37:ARG:HG3	2.00	0.61
1:f:296:LEU:HD22	1:f:296:LEU:H	1.66	0.61
1:h:529:ILE:HD13	1:h:583:VAL:HG11	1.82	0.61
1:i:676:GLU:HA	1:i:676:GLU:OE1	2.01	0.61
1:j:7:ILE:HD12	1:j:7:ILE:N	2.15	0.61
1:j:90:ILE:O	1:j:90:ILE:HD12	1.99	0.61
1:k:408:LEU:H	1:k:408:LEU:HD12	1.66	0.61
1:k:600:ARG:O	1:k:604:PHE:HD1	1.82	0.61
1:k:662:ILE:O	1:k:666:THR:HB	1.99	0.61
1:m:115:VAL:H	1:m:118:ASN:ND2	1.99	0.61
1:m:123:LEU:HA	1:m:158:GLU:HA	1.82	0.61
1:B:595:SER:C	1:B:599:ILE:HD13	2.23	0.61
1:C:507:ARG:HB2	1:C:510:ALA:HB2	1.82	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:F:354:GLY:C	1:G:328:GLU:HG3	2.25	0.61
1:G:281:TYR:CD2	1:G:366:VAL:HG13	2.35	0.61
1:I:273:ILE:HD13	1:I:316:LEU:HD11	1.82	0.61
1:I:472:ASP:HA	1:I:493:GLU:HB3	1.81	0.61
1:J:5:GLU:HG2	1:J:43:VAL:CG2	2.31	0.61
1:J:281:TYR:HE1	1:J:321:GLN:HB2	1.63	0.61
1:J:469:GLN:HB3	1:J:496:THR:CG2	2.28	0.61
1:K:55:PRO:O	1:K:56:ARG:HG2	2.00	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:182:CYS:SG	1:Q:208:VAL:CG2	2.88	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:HD13	1:S:152:ILE:H	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:c:73:VAL:HG11	1:c:82:ARG:HB2	1.81	0.61
1:d:116:LEU:HB3	1:d:117:PRO:CD	2.30	0.61
1:e:217:ASP:OD1	1:e:218:ALA:N	2.34	0.61
1:f:795:PHE:O	1:f:799:THR:HG22	2.00	0.61
1:g:70:GLN:HB3	1:g:104:VAL:H	1.66	0.61
1:g:109:ILE:HD12	1:g:153:PRO:HG2	1.82	0.61
1:g:151:TYR:CD2	1:g:152:ILE:HD13	2.35	0.61
1:g:338:GLN:HB2	1:g:339:PRO:HD3	1.81	0.61
1:j:60:ILE:H	1:j:60:ILE:HD12	1.65	0.61
1:j:745:LYS:CG	1:k:753:ILE:HD13	2.26	0.61
1:A:802:LEU:HD12	1:A:806:THR:HG22	1.83	0.61
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:D:19:LEU:HD23	1:D:32:PRO:HB2	1.82	0.61
1:E:144:LEU:HD12	1:E:144:LEU:H	1.66	0.61
1:G:281:TYR:HE1	1:G:321:GLN:HB2	1.66	0.61
1:G:596:ALA:O	1:G:600:ARG:HB2	2.00	0.61
1:G:766:ARG:O	1:G:770:LEU:HB2	2.01	0.61
1:H:284:ILE:HD11	1:H:300:ARG:HB3	1.83	0.61
1:J:734:ARG:HH21	1:J:735:ILE:HD13	1.63	0.61
1:M:338:GLN:NE2	1:N:279:ARG:HD3	2.15	0.61
1:M:601:MET:HG2	1:M:622:ALA:HB2	1.82	0.61
1:N:262:ASP:HB3	1:N:264:TYR:CE1	2.35	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:HD12	1:X:320:ILE:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:18:VAL:H	1:Y:48:VAL:CG1	2.13	0.61
1:a:175:ARG:NE	1:a:263:VAL:HG22	2.14	0.61
1:a:294:ASN:HD21	1:a:313:GLY:HA3	1.65	0.61
1:a:419:LEU:HD12	1:a:494:GLN:NE2	2.14	0.61
1:a:587:THR:HG23	1:a:590:ASP:CB	2.30	0.61
1:b:340:LEU:HG	1:b:353:ALA:HB2	1.82	0.61
1:e:18:VAL:HG13	1:e:48:VAL:HG22	1.81	0.61
1:e:334:LEU:HD12	1:e:377:ARG:NH2	2.16	0.61
1:e:452:ARG:HH12	1:e:454:LYS:HA	1.65	0.61
1:f:175:ARG:HE	1:f:263:VAL:HG22	1.66	0.61
1:f:279:ARG:HG3	1:f:280:HIS:CD2	2.36	0.61
1:g:338:GLN:HB3	1:g:339:PRO:HD3	1.83	0.61
1:g:745:LYS:HG3	1:h:753:ILE:HD13	1.83	0.61
1:i:184:ASP:HB3	1:i:187:GLY:O	2.00	0.61
1:j:109:ILE:HD12	1:j:153:PRO:HB2	1.82	0.61
1:k:132:LYS:HZ2	1:k:152:ILE:HD12	1.50	0.61
1:l:120:ALA:HB3	1:l:162:ILE:HG13	1.81	0.61
1:A:32:PRO:HG2	1:B:11:PRO:HG3	1.83	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:338:GLN:OE1	1:E:278:PRO:HB2	2.00	0.61
1:E:227:LEU:O	1:E:250:LEU:HA	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:G:8:ILE:HD12	1:G:8:ILE:O	2.00	0.61
1:H:327:SER:O	1:H:328:GLU:HG2	2.00	0.61
1:H:785:GLN:HA	1:I:790:VAL:HG21	1.82	0.61
1:J:109:ILE:CD1	1:J:153:PRO:HB2	2.30	0.61
1:K:113:GLN:O	1:K:114:VAL:HG13	2.01	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: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:CG2	1:W:496:THR:O	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:8:ILE:HG22	1:a:40:ASN:ND2	2.15	0.61
1:a:481:VAL:HG11	1:a:487:VAL:CG1	2.30	0.61
1:d:10:ILE:HD13	1:d:13:TYR:CD2	2.36	0.61
1:f:30:VAL:HG22	1:f:74:LEU:HG	1.82	0.61
1:h:90:ILE:HD12	1:h:154:GLN:HB2	1.81	0.61
1:h:122:HIS:HB3	1:h:159:VAL:HB	1.81	0.61
1:h:452:ARG:HG3	1:h:452:ARG:HH11	1.66	0.61
1:i:106:GLU:O	1:i:107:LYS:HD2	2.00	0.61
1:i:167:VAL:HG22	1:i:201:VAL:HA	1.83	0.61
1:j:16:ILE:HD13	1:j:34:THR:HG21	1.82	0.61
1:j:180:LYS:C	1:j:182:CYS:N	2.52	0.61
1:j:452:ARG:HH11	1:j:452:ARG:HG3	1.65	0.61
1:k:14:HIS:HB3	1:k:56:ARG:CG	2.30	0.61
1:k:273:ILE:HG23	1:k:310:LEU:HD11	1.81	0.61
1:m:174:LEU:HB2	1:m:198:VAL:HB	1.82	0.61
1:A:115:VAL:O	1:A:118:ASN:HB3	1.99	0.61
1:A:120:ALA:HB2	1:A:164:GLN:NE2	2.16	0.61
1:B:9:ARG:NH1	1:B:36:ILE:HA	2.16	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:C:124:LYS:HG2	1:C:157:VAL:O	2.00	0.61
1:D:67:ARG:HG2	1:D:108:ASP:HB3	1.83	0.61
1:F:273:ILE:HG21	1:F:316:LEU:HD11	1.83	0.61
1:H:43:VAL:HG12	1:H:45:PHE:O	2.01	0.61
1:H:342:GLU:O	1:H:350:SER:HA	2.00	0.61
1:K:291:ASP:C	1:K:293:LYS:H	2.09	0.61
1:L:51:VAL:O	1:L:53:VAL:HG23	2.01	0.61
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:P:522:PHE:C	1:P:522:PHE:CD2	2.79	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:4:GLU:OE2	1:V:6:ALA:HB2	2.01	0.61
1:V:65:VAL:HG12	1:V:110:THR:CG2	2.30	0.61
1:V:296:LEU:N	1:V:296:LEU:HD22	2.16	0.61
1:W:465:ASN:HB3	1:W:519:GLY:HA3	1.83	0.61
1:Z:49:ARG:NH2	1:a:8:ILE:CD1	2.63	0.61
1:a:251:VAL:HG23	1:a:254:GLN:NE2	2.14	0.61
1:b:605:GLY:O	1:b:623:ARG:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:175:ARG:HE	1:c:263:VAL:HG22	1.66	0.61
1:c:276:LEU:O	1:c:277:GLY:C	2.43	0.61
1:d:77:ILE:HG13	1:d:79:GLY:N	2.16	0.61
1:d:354:GLY:O	1:e:328:GLU:HG3	2.01	0.61
1:e:192:THR:HG23	1:f:202:GLY:HA3	1.82	0.61
1:e:252:THR:H	1:e:254:GLN:NE2	1.99	0.61
1:f:575:ILE:HD12	1:f:603:VAL:HG13	1.82	0.61
1:h:227:LEU:O	1:h:250:LEU:HA	2.01	0.61
1:h:408:LEU:HD21	1:h:414:LEU:CD1	2.28	0.61
1:i:16:ILE:HA	1:i:34:THR:OG1	1.99	0.61
1:j:390:VAL:HG12	1:j:408:LEU:HD23	1.83	0.61
1:j:526:VAL:HG22	1:j:540:GLN:HG2	1.82	0.61
1:k:130:GLU:N	1:k:137:VAL:HG12	2.15	0.61
1:k:311:GLN:HB3	1:k:312:PRO:HD2	1.82	0.61
1:l:452:ARG:HG3	1:l:452:ARG:HH11	1.66	0.61
1:A:5:GLU:HG2	1:A:43:VAL:CG2	2.30	0.61
1:A:595:SER:CB	1:m:580:ARG:HH22	2.13	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:C:522:PHE:CD2	1:C:522:PHE:C	2.78	0.61
1:E:106:GLU:O	1:E:107:LYS:HD2	2.00	0.61
1:E:182:CYS:O	1:E:190:ARG:HB2	2.00	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:J:382:LEU:N	1:J:405:THR:HG22	2.15	0.61
1:K:490:ASP:CG	1:K:491:PRO:HD2	2.26	0.61
1:L:3:THR:HG22	1:L:50:MET:CE	2.31	0.61
1:L:580:ARG:HH22	1:M:595:SER:HB2	1.65	0.61
1:O:70:GLN:HB3	1:O:104:VAL:H	1.66	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:P:220:ILE:C	1:P:222:THR:H	2.08	0.61
1:P:601:MET:CG	1:P:622:ALA:HB2	2.31	0.61
1:Q:60:ILE:H	1:Q:60:ILE:HD12	1.64	0.61
1:Q:113:GLN:HG2	1:Q:150:THR:HB	1.83	0.61
1:Q:389:TYR:CZ	1:Q:457:VAL:HA	2.36	0.61
1:Q:419:LEU:CG	1:Q:420:PRO:HD2	2.21	0.61
1:R:533:ASP:OD1	1:R:587:THR:HA	2.00	0.61
1:R:708:GLU:HG3	1:S:716:VAL:HG11	1.83	0.61
1:T:494:GLN:HA	1:T:494:GLN:NE2	2.14	0.61
1:U:533:ASP:OD1	1:U:587:THR:HA	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:a:560:LYS:HD2	1:a:630:GLN:O	2.01	0.61
1:e:51:VAL:O	1:e:53:VAL:HG23	2.01	0.61
1:f:164:GLN:HB3	1:f:204:TYR:HA	1.81	0.61
1:f:243:HIS:HE2	1:f:249:TRP:CG	2.17	0.61
1:h:485:GLU:HG2	1:h:486:LEU:H	1.66	0.61
1:i:10:ILE:HD13	1:i:13:TYR:CE2	2.36	0.61
1:i:476:LYS:HE2	1:j:485:GLU:HG3	1.83	0.61
1:j:234:ASN:ND2	1:j:245:THR:H	1.97	0.61
1:j:408:LEU:HD12	1:j:408:LEU:H	1.64	0.61
1:k:529:ILE:HD12	1:k:537:LEU:HB2	1.83	0.61
1:m:539:LEU:HD22	1:m:643:VAL:HG22	1.83	0.61
1:A:691:GLN:HE22	1:m:679:ARG:HG3	1.66	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: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:224:LYS:HA	1:E:272:PRO:HG3	1.83	0.60
1:E:506:LYS:HE2	1:E:524:THR:O	2.01	0.60
1:E:802:LEU:HD12	1:E:806:THR:HG22	1.83	0.60
1:F:5:GLU:HG2	1:F:43:VAL:CG2	2.28	0.60
1:F:220:ILE:C	1:F:222:THR:H	2.09	0.60
1:F:332:LEU:HD21	1:F:407:MET:HB3	1.80	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: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:I:183:PHE:HE2	1:I:188:LYS:HA	1.66	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:14:HIS:HB3	1:M:56:ARG:CG	2.31	0.60
1:M:288:MET:HE1	1:M:312:PRO:HG2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:485:GLU:HG2	1:Z:486:LEU:N	2.16	0.60
1:b:30:VAL:HG13	1:b:74:LEU:HD11	1.83	0.60
1:c:58:TYR:HD1	1:c:99:LEU:HD12	1.63	0.60
1:c:419:LEU:HD23	1:c:421:SER:H	1.66	0.60
1:i:18:VAL:H	1:i:48:VAL:CG1	2.11	0.60
1:j:262:ASP:HB3	1:j:264:TYR:CE1	2.36	0.60
1:k:36:ILE:O	1:k:37:ARG:HG3	2.00	0.60
1:l:481:VAL:HG11	1:l:487:VAL:CG1	2.31	0.60
1:m:194:GLU:HG2	1:m:195:GLU:H	1.66	0.60
1:A:69:THR:HA	1:A:106:GLU:HB3	1.83	0.60
1:C:109:ILE:HD12	1:C:153:PRO:HG2	1.83	0.60
1:C:676:GLU:HA	1:C:676:GLU:OE1	2.01	0.60
1:D:418:GLU:OE2	1:D:452:ARG:NH1	2.34	0.60
1:E:560:LYS:HD2	1:E:630:GLN:O	2.00	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:J:14:HIS:HB3	1:J:56:ARG:HG3	1.82	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:M:220:ILE:C	1:M:222:THR:H	2.10	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:b:20:ASP:CB	1:b:49:ARG:HD2	2.31	0.60
1:c:180:LYS:C	1:c:182:CYS:H	2.08	0.60
1:e:19:LEU:HA	1:e:32:PRO:HB2	1.83	0.60
1:e:252:THR:O	1:e:254:GLN:N	2.33	0.60
1:f:802:LEU:HD12	1:f:806:THR:HG22	1.82	0.60
1:g:114:VAL:HA	1:g:118:ASN:ND2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:334:LEU:HD12	1:g:377:ARG:NH2	2.15	0.60
1:g:601:MET:HG3	1:g:622:ALA:HB2	1.82	0.60
1:h:358:LEU:HD13	1:h:377:ARG:NH1	2.16	0.60
1:i:4:GLU:OE2	1:i:6:ALA:HB2	2.00	0.60
1:j:72:SER:HB3	1:j:84:ARG:HH21	1.65	0.60
1:A:221:LEU:HA	1:A:253:VAL:HG13	1.83	0.60
1:A:252:THR:H	1:A:254:GLN:NE2	1.99	0.60
1:C:196:TRP:CE3	1:C:196:TRP:HA	2.36	0.60
1:E:327:SER:OG	1:E:331:GLY:HA3	2.01	0.60
1:E:328:GLU:HG3	1:E:329:GLN:N	2.17	0.60
1:E:529:ILE:CD1	1:E:537:LEU:HB2	2.30	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:I:337:LEU:HD22	1:I:357:TRP:CZ3	2.36	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:L:336:ALA:HA	1:L:356:CYS:CB	2.31	0.60
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:336:ALA:H	1:O:374:VAL:HG23	1.67	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:b:205:LEU:HD22	1:b:211:GLU:HB2	1.82	0.60
1:c:19:LEU:HA	1:c:32:PRO:HB3	1.83	0.60
1:c:130:GLU:HA	1:c:137:VAL:HG13	1.83	0.60
1:c:384:GLN:NE2	1:c:384:GLN:H	1.99	0.60
1:f:106:GLU:O	1:f:107:LYS:HD2	2.00	0.60
1:f:526:VAL:HG22	1:f:540:GLN:HG2	1.83	0.60
1:g:60:ILE:HG22	1:g:66:SER:HA	1.84	0.60
1:g:330:GLN:HB3	1:g:379:ALA:HB3	1.82	0.60
1:h:326:LEU:O	1:h:328:GLU:HG2	2.01	0.60
1:h:701:LYS:HG3	1:i:709:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:221:LEU:CD2	1:j:256:THR:HG21	2.31	0.60
1:j:279:ARG:O	1:j:323:VAL:N	2.27	0.60
1:k:92:LEU:HB2	1:k:94:GLN:HG2	1.82	0.60
1:k:490:ASP:CG	1:k:491:PRO:HD2	2.26	0.60
1:l:122:HIS:O	1:l:159:VAL:N	2.30	0.60
1:C:130:GLU:HB2	1:C:136:LYS:HA	1.82	0.60
1:D:130:GLU:CB	1:D:136:LYS:HA	2.31	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:N	1:I:234:ASN:HD22	1.98	0.60
1:K:36:ILE:HG21	1:K:99:LEU:HD13	1.82	0.60
1:K:221:LEU:HD13	1:K:255:ASP:O	2.02	0.60
1:L:30:VAL:HG22	1:L:74:LEU:HG	1.83	0.60
1:L:128:ASP:HB2	1:L:155:LYS:HB3	1.82	0.60
1:O:67:ARG:O	1:O:91:ARG:HB2	2.01	0.60
1:O:419:LEU:HG	1:O:420:PRO:HD2	1.83	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:61:VAL:HG13	1:R:65:VAL:HG23	1.83	0.60
1:R:382:LEU:N	1:R:405:THR:HG22	2.15	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
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:332:LEU:HD21	1:Y:407:MET:HB2	1.82	0.60
1:Y:396:GLY:CA	1:Z:405:THR:HG23	2.32	0.60
1:b:326:LEU:HD11	1:b:359:ILE:CD1	2.30	0.60
1:b:419:LEU:CD2	1:b:422:GLY:H	2.14	0.60
1:d:46:ALA:N	1:d:47:PRO:CD	2.64	0.60
1:e:46:ALA:N	1:e:47:PRO:HD3	2.16	0.60
1:i:46:ALA:N	1:i:47:PRO:CD	2.64	0.60
1:j:340:LEU:HG	1:j:353:ALA:HB2	1.84	0.60
1:l:320:ILE:N	1:l:320:ILE:HD13	2.17	0.60
1:m:527:ILE:HD13	1:m:529:ILE:HG23	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:A:654:LEU:HD12	1:B:662:ILE:CD1	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:327:SER:HB2	1:C:331:GLY:HA2	1.78	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:G:14:HIS:HD1	1:G:36:ILE:HG22	1.66	0.60
1:G:268:LEU:HD13	1:G:269:GLY:H	1.66	0.60
1:H:46:ALA:N	1:H:47:PRO:CD	2.64	0.60
1:J:109:ILE:HD12	1:J:153:PRO:HB2	1.83	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: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:46:ALA:N	1:T:47:PRO:CD	2.64	0.60
1:T:120:ALA:HB2	1:T:164:GLN:HE22	1.65	0.60
1:V:115:VAL:HA	1:V:147:GLY:O	2.02	0.60
1:V:298:GLN:HG3	1:W:305:GLU:CD	2.27	0.60
1:Z:14:HIS:CB	1:Z:56:ARG:HB2	2.32	0.60
1:c:14:HIS:ND1	1:c:36:ILE:HG22	2.16	0.60
1:c:337:LEU:HD22	1:c:357:TRP:CZ3	2.34	0.60
1:c:474:ARG:CG	1:c:492:GLU:HB2	2.32	0.60
1:d:766:ARG:O	1:d:770:LEU:HB2	2.01	0.60
1:f:539:LEU:HD22	1:f:643:VAL:HG22	1.83	0.60
1:g:24:ASN:ND2	1:g:30:VAL:HB	2.15	0.60
1:i:183:PHE:HE2	1:i:188:LYS:HA	1.67	0.60
1:i:273:ILE:CD1	1:i:316:LEU:HD21	2.31	0.60
1:i:337:LEU:HD22	1:i:357:TRP:HZ3	1.66	0.60
1:k:533:ASP:OD1	1:k:587:THR:HA	2.01	0.60
1:m:472:ASP:CA	1:m:493:GLU:HB3	2.28	0.60
1:m:603:VAL:HG21	1:m:638:VAL:HG21	1.84	0.60
1:A:452:ARG:HG3	1:A:452:ARG:HH11	1.67	0.60
1:B:18:VAL:H	1:B:48:VAL:CG1	2.12	0.60
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:452:ARG:HH12	1:D:454:LYS:HA	1.66	0.60
1:F:653:ALA:HB3	1:G:662:ILE:HD11	1.84	0.60
1:F:654:LEU:HD12	1:G:662:ILE:HD12	1.84	0.60
1:G:311:GLN:HB2	1:G:314:GLU:CG	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:239:ARG:NH2	1:J:257:GLU:HG2	2.16	0.60
1:J:279:ARG:O	1:J:323:VAL:N	2.31	0.60
1:L:67:ARG:NE	1:L:108:ASP:HB3	2.16	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: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:a:163:ILE:HD12	1:a:163:ILE:O	2.01	0.60
1:a:394:LYS:CG	1:b:329:GLN:HG3	2.32	0.60
1:b:60:ILE:HG13	1:b:92:LEU:O	2.02	0.60
1:b:335:LYS:HZ3	1:b:335:LYS:HB2	1.65	0.60
1:d:330:GLN:CB	1:d:379:ALA:HB3	2.29	0.60
1:g:273:ILE:CG2	1:g:310:LEU:HD11	2.31	0.60
1:i:281:TYR:CD2	1:i:366:VAL:HG13	2.36	0.60
1:l:65:VAL:HG12	1:l:110:THR:CG2	2.32	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:580:ARG:HH22	1:E:595:SER:CB	2.15	0.60
1:E:123:LEU:HG	1:E:143:TRP:HB2	1.83	0.60
1:E:597:ARG:HG3	1:E:600:ARG:HH21	1.67	0.60
1:J:19:LEU:HA	1:J:32:PRO:CB	2.31	0.60
1:K:8:ILE:HG22	1:K:40:ASN:ND2	2.17	0.60
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:14:HIS:HB3	1:P:56:ARG:HG3	1.82	0.60
1:P:46:ALA:N	1:P:47:PRO:CD	2.65	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: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:Z:653:ALA:HB3	1:a:662:ILE:HD11	1.80	0.60
1:b:359:ILE:HD12	1:b:359:ILE:O	2.01	0.60
1:d:115:VAL:H	1:d:118:ASN:ND2	1.99	0.60
1:e:180:LYS:C	1:e:182:CYS:N	2.58	0.60
1:e:239:ARG:HH21	1:e:257:GLU:HG2	1.65	0.60
1:f:58:TYR:HD1	1:f:99:LEU:CD1	2.15	0.60
1:f:394:LYS:HG2	1:g:329:GLN:CG	2.27	0.60
1:f:587:THR:HG23	1:f:590:ASP:CB	2.32	0.60
1:g:213:LEU:HD13	1:g:214:ASP:H	1.66	0.60
1:j:176:LEU:HB2	1:j:196:TRP:HB2	1.84	0.60
1:j:285:LEU:HD12	1:j:315:ARG:HH11	1.64	0.60
1:j:336:ALA:H	1:j:374:VAL:HG23	1.67	0.60
1:k:60:ILE:CD1	1:k:93:ALA:HA	2.31	0.60
1:m:382:LEU:N	1:m:405:THR:HG22	2.16	0.60
1:A:228:HIS:NE2	1:A:312:PRO:HB3	2.17	0.60
1:E:46:ALA:N	1:E:47:PRO:CD	2.64	0.60
1:E:759:LEU:HD22	1:F:768:MET:HG3	1.84	0.60
1:H:601:MET:HG2	1:H:622:ALA:CB	2.32	0.60
1:K:175:ARG:HE	1:K:263:VAL:CG2	2.08	0.60
1:L:100:TYR:HB3	1:L:101:PRO:CD	2.31	0.60
1:M:122:HIS:HB3	1:M:160:VAL:H	1.67	0.60
1:N:155:LYS:H	1:N:155:LYS:HZ2	1.49	0.60
1:O:13:TYR:O	1:O:36:ILE:HG12	2.00	0.60
1:O:122:HIS:O	1:O:159:VAL:N	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:R:69:THR:HA	1:R:106:GLU:HB3	1.82	0.60
1:R:354:GLY:C	1:S:328:GLU:HG3	2.27	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:Z:120:ALA:HB3	1:Z:162:ILE:HG13	1.84	0.60
1:b:296:LEU:HD22	1:b:296:LEU:N	2.16	0.60
1:c:120:ALA:HB3	1:c:162:ILE:HG13	1.83	0.60
1:e:221:LEU:HD22	1:e:256:THR:CB	2.31	0.60
1:e:704:LYS:HD2	1:f:712:MET:HB3	1.84	0.60
1:h:129:PHE:O	1:h:130:GLU:HG2	2.01	0.60
1:i:697:SER:HA	1:j:706:LEU:HD23	1.82	0.60
1:j:10:ILE:HD13	1:j:13:TYR:CE2	2.36	0.60
1:m:384:GLN:H	1:m:384:GLN:NE2	2.00	0.60
1:A:90:ILE:HD12	1:A:90:ILE:O	2.01	0.60
1:A:772:TYR:HB2	1:m:766:ARG:HD3	1.82	0.60
1:B:171:ASN:O	1:B:216:VAL:HA	2.01	0.60
1:B:190:ARG:O	1:B:191:VAL:HG23	2.02	0.60
1:B:278:PRO:O	1:B:279:ARG:HB3	2.01	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:384:GLN:H	1:E:384:GLN:NE2	1.99	0.60
1:E:481:VAL:HG11	1:E:487:VAL:HG13	1.82	0.60
1:E:653:ALA:HB1	1:F:662:ILE:CD1	2.23	0.60
1:F:333:LEU:O	1:F:359:ILE:HD13	2.02	0.60
1:G:45:PHE:HB3	1:G:47:PRO:HD2	1.82	0.60
1:G:527:ILE:H	1:G:527:ILE:CD1	2.12	0.60
1:H:115:VAL:H	1:H:118:ASN:HD22	1.48	0.60
1:I:529:ILE:CD1	1:I:537:LEU:HB2	2.31	0.60
1:I:759:LEU:HD21	1:J:765:VAL:HG22	1.83	0.60
1:J:175:ARG:HE	1:J:263:VAL:HG22	1.66	0.60
1:J:472:ASP:HA	1:J:493:GLU:CB	2.31	0.60
1:M:54:PRO:HB2	1:M:55:PRO:CD	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:227:LEU:HB2	1:Q:251:VAL:CG1	2.32	0.60
1:R:70:GLN:HB3	1:R:104:VAL:H	1.67	0.60
1:R:496:THR:CG2	1:R:496:THR:O	2.50	0.60
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:a:16:ILE:HA	1:a:34:THR:OG1	2.02	0.60
1:a:189:GLY:O	1:a:196:TRP:HZ2	1.85	0.60
1:c:55:PRO:O	1:c:56:ARG:HG2	2.00	0.60
1:e:239:ARG:NH2	1:e:257:GLU:HG2	2.17	0.60
1:e:474:ARG:CG	1:e:492:GLU:HB2	2.32	0.60
1:f:758:GLU:O	1:f:762:VAL:HG23	2.01	0.60
1:g:337:LEU:HD23	1:g:337:LEU:H	1.65	0.60
1:h:529:ILE:CD1	1:h:537:LEU:HB2	2.32	0.60
1:j:417:LYS:O	1:j:418:GLU:HB2	2.00	0.60
1:j:762:VAL:O	1:j:766:ARG:HB2	2.02	0.60
1:k:745:LYS:HG3	1:l:753:ILE:HD11	1.84	0.60
1:l:221:LEU:CD2	1:l:256:THR:CG2	2.80	0.60
1:m:100:TYR:HB3	1:m:101:PRO:CD	2.30	0.60
1:m:787:LEU:HA	1:m:790:VAL:HG12	1.83	0.60
1:C:227:LEU:HB2	1:C:251:VAL:HG12	1.84	0.60
1:D:474:ARG:CG	1:D:492:GLU:HB2	2.32	0.60
1:E:490:ASP:CG	1:E:491:PRO:HD2	2.27	0.60
1:F:8:ILE:HA	1:F:40:ASN:HD22	1.66	0.60
1:G:9:ARG:NH1	1:G:36:ILE:HA	2.16	0.60
1:G:381:PRO:HA	1:G:405:THR:CG2	2.32	0.60
1:J:533:ASP:CG	1:J:588:PHE:H	2.10	0.60
1:K:284:ILE:HD13	1:K:284:ILE:N	2.16	0.60
1:K:533:ASP:OD1	1:K:587:THR:HA	2.02	0.60
1:M:169:LYS:H	1:M:201:VAL:HG12	1.66	0.60
1:R:384:GLN:H	1:R:384:GLN:NE2	2.00	0.60
1:T:4:GLU:OE2	1:T:6:ALA:HB2	2.02	0.60
1:T:174:LEU:HB2	1:T:198:VAL:HB	1.83	0.60
1:U:19:LEU:HA	1:U:32:PRO:HB3	1.84	0.60
1:a:120:ALA:O	1:a:161:GLU:HA	2.02	0.60
1:e:377:ARG:NH1	1:e:408:LEU:O	2.34	0.60
1:f:100:TYR:HB3	1:f:101:PRO:CD	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:130:GLU:CB	1:j:136:LYS:HA	2.32	0.60
1:k:10:ILE:HD13	1:k:13:TYR:CD2	2.36	0.60
1:l:183:PHE:HA	1:l:190:ARG:HD3	1.82	0.60
1:l:408:LEU:H	1:l:408:LEU:HD12	1.67	0.60
1:B:327:SER:HB2	1:B:331:GLY:CA	2.32	0.59
1:C:382:LEU:HD13	1:C:387:GLY:HA2	1.83	0.59
1:D:73:VAL:H	1:D:84:ARG:HB2	1.67	0.59
1:E:67:ARG:HH21	1:E:107:LYS:HA	1.67	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:G:399:ARG:HA	1:G:491:PRO:HG3	1.83	0.59
1:J:394:LYS:HG2	1:K:329:GLN:HG3	1.84	0.59
1:K:196:TRP:CE3	1:K:196:TRP:HA	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:511:ARG:HH22	1:L:517:LEU:HD11	1.66	0.59
1:N:330:GLN:HA	1:N:330:GLN:OE1	2.02	0.59
1:P:4:GLU:OE2	1:P:6:ALA:HB2	2.02	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
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:a:54:PRO:CB	1:a:55:PRO:HD3	2.24	0.59
1:c:14:HIS:CB	1:c:56:ARG:HB2	2.32	0.59
1:d:4:GLU:OE2	1:d:6:ALA:HB2	2.01	0.59
1:e:16:ILE:HD13	1:e:34:THR:HG21	1.84	0.59
1:e:310:LEU:HD21	1:e:316:LEU:HG	1.83	0.59
1:e:526:VAL:HG22	1:e:540:GLN:HG2	1.84	0.59
1:f:89:GLU:C	1:f:90:ILE:HD13	2.26	0.59
1:f:130:GLU:N	1:f:137:VAL:HG13	2.17	0.59
1:h:402:ILE:HD12	1:h:402:ILE:O	2.02	0.59
1:h:587:THR:HG23	1:h:590:ASP:CB	2.32	0.59
1:j:252:THR:O	1:j:254:GLN:N	2.35	0.59
1:j:796:LYS:HA	1:j:799:THR:HG22	1.83	0.59
1:k:472:ASP:HA	1:k:493:GLU:HB3	1.84	0.59
1:l:417:LYS:O	1:l:418:GLU:HB2	2.02	0.59
1:C:394:LYS:HG2	1:D:329:GLN:HG3	1.83	0.59
1:D:653:ALA:HB3	1:E:662:ILE:CD1	2.30	0.59
1:E:2:ALA:HB3	1:E:46:ALA:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:109:ILE:CD1	1:G:153:PRO:HB2	2.33	0.59
1:H:155:LYS:HB2	1:H:155:LYS:HZ2	1.68	0.59
1:I:184:ASP:HB2	1:I:189:GLY:O	2.02	0.59
1:J:279:ARG:HG3	1:J:280:HIS:HD2	1.67	0.59
1:J:355:ASP:HA	1:K:328:GLU:CB	2.31	0.59
1:K:14:HIS:ND1	1:K:36:ILE:CG2	2.64	0.59
1:K:43:VAL:HG12	1:K:45:PHE:O	2.01	0.59
1:K:46:ALA:N	1:K:47:PRO:HD3	2.17	0.59
1:K:469:GLN:HB3	1:K:496:THR:CG2	2.31	0.59
1:K:529:ILE:HG22	1:K:580:ARG:HB2	1.85	0.59
1:L:3:THR:HG22	1:L:50:MET:HE1	1.84	0.59
1:M:465:ASN:O	1:M:518:LEU:HD12	2.02	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:O	1:R:90:ILE:HD12	2.01	0.59
1:S:522:PHE:CD2	1:S:522:PHE:C	2.80	0.59
1:W:229:LEU:O	1:W:248:GLU:HA	2.02	0.59
1:Y:90:ILE:HD12	1:Y:90:ILE:O	2.01	0.59
1:Y:302:VAL:HG21	1:Y:308:PHE:CE2	2.38	0.59
1:b:10:ILE:H	1:b:10:ILE:HD12	1.67	0.59
1:c:506:LYS:HE2	1:c:524:THR:O	2.02	0.59
1:d:120:ALA:HB3	1:d:162:ILE:HG13	1.83	0.59
1:e:394:LYS:HA	1:f:329:GLN:NE2	2.17	0.59
1:i:235:PHE:CE1	1:i:264:TYR:CE1	2.91	0.59
1:l:3:THR:HG22	1:l:50:MET:CE	2.32	0.59
1:m:36:ILE:HG21	1:m:99:LEU:H	1.67	0.59
1:A:771:ILE:HD13	1:A:774:ARG:NH1	2.17	0.59
1:B:511:ARG:NH2	1:B:517:LEU:HD11	2.17	0.59
1:C:71:SER:OG	1:C:87:ASP:HB3	2.03	0.59
1:E:500:LEU:HA	1:E:566:ASP:OD1	2.01	0.59
1:H:402:ILE:O	1:H:402:ILE:HD12	2.02	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:K:24:ASN:ND2	1:K:30:VAL:HB	2.16	0.59
1:N:252:THR:O	1:N:254:GLN:N	2.35	0.59
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:18:VAL:H	1:a:48:VAL:CG1	2.13	0.59
1:a:523:PHE:HE1	1:a:568:VAL:HG12	1.66	0.59
1:c:340:LEU:HG	1:c:353:ALA:HB2	1.84	0.59
1:c:729:ARG:HB2	1:c:729:ARG:HH11	1.67	0.59
1:d:273:ILE:HG23	1:d:310:LEU:HD11	1.84	0.59
1:e:276:LEU:N	1:e:280:HIS:HB2	2.16	0.59
1:e:337:LEU:HD22	1:e:357:TRP:HZ3	1.67	0.59
1:i:120:ALA:HB3	1:i:162:ILE:HG13	1.84	0.59
1:i:328:GLU:OE1	1:i:362:PRO:HA	2.03	0.59
1:j:649:ARG:NH2	1:k:655:GLN:HG2	2.16	0.59
1:k:676:GLU:OE1	1:k:676:GLU:HA	2.02	0.59
1:B:100:TYR:HB3	1:B:101:PRO:CD	2.32	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:D:77:ILE:CG1	1:D:80:GLN:N	2.60	0.59
1:F:65:VAL:HG12	1:F:110:THR:HG22	1.85	0.59
1:G:125:ALA:HB3	1:G:140:GLY:HA2	1.83	0.59
1:H:64:PRO:HA	1:H:111:PRO:HD2	1.83	0.59
1:H:452:ARG:HH11	1:H:452:ARG:HG3	1.67	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: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:N:215:LEU:HD12	1:N:259:HIS:HE2	1.68	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:462:VAL:HG22	1:Q:468:VAL:CG2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:327:SER:HB2	1:a:331:GLY:HA2	1.82	0.59
1:b:771:ILE:HA	1:b:774:ARG:HH11	1.66	0.59
1:c:130:GLU:HA	1:c:137:VAL:H	1.67	0.59
1:c:152:ILE:O	1:c:152:ILE:HD12	2.01	0.59
1:c:328:GLU:CG	1:c:329:GLN:N	2.65	0.59
1:c:394:LYS:HA	1:d:329:GLN:NE2	2.17	0.59
1:d:10:ILE:HD13	1:d:13:TYR:CE2	2.37	0.59
1:d:194:GLU:HG2	1:d:195:GLU:N	2.18	0.59
1:e:123:LEU:HD11	1:e:143:TRP:HD1	1.68	0.59
1:f:90:ILE:HD12	1:f:154:GLN:CB	2.32	0.59
1:g:5:GLU:HG2	1:g:43:VAL:CG2	2.32	0.59
1:h:606:PHE:HB2	1:h:622:ALA:HA	1.84	0.59
1:k:10:ILE:HD13	1:k:13:TYR:CE2	2.37	0.59
1:k:67:ARG:HG2	1:k:108:ASP:CB	2.32	0.59
1:k:337:LEU:HD22	1:k:357:TRP:CZ3	2.35	0.59
1:A:580:ARG:HH22	1:B:595:SER:CB	2.15	0.59
1:C:100:TYR:HB3	1:C:101:PRO:CD	2.33	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:F:284:ILE:HD13	1:F:284:ILE:N	2.18	0.59
1:G:580:ARG:HH22	1:H:595:SER:HB2	1.66	0.59
1:H:291:ASP:C	1:H:293:LYS:H	2.11	0.59
1:H:600:ARG:NH1	1:H:622:ALA:HB3	2.18	0.59
1:J:5:GLU:HG2	1:J:43:VAL:HG21	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:87:ASP:CG	1:R:88:GLN:N	2.61	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:18:VAL:CG1	1:X:48:VAL:HG22	2.31	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
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:398:VAL:H	1:b:384:GLN:CD	2.09	0.59
1:a:517:LEU:H	1:a:517:LEU:HD12	1.67	0.59
1:d:221:LEU:CD2	1:d:256:THR:CG2	2.76	0.59
1:e:273:ILE:HD11	1:e:308:PHE:CD2	2.35	0.59
1:f:18:VAL:N	1:f:48:VAL:HG13	2.14	0.59
1:f:43:VAL:HG12	1:f:45:PHE:O	2.02	0.59
1:g:339:PRO:HD2	1:g:370:LYS:HB3	1.83	0.59
1:h:580:ARG:HH22	1:i:595:SER:HB2	1.67	0.59
1:i:337:LEU:HD21	1:i:352:GLN:O	2.02	0.59
1:A:354:GLY:O	1:A:356:CYS:N	2.36	0.59
1:B:332:LEU:HD21	1:B:407:MET:HB3	1.84	0.59
1:B:522:PHE:CD2	1:B:522:PHE:C	2.81	0.59
1:D:24:ASN:HD22	1:D:30:VAL:HB	1.68	0.59
1:D:394:LYS:HG2	1:E:329:GLN:HG3	1.85	0.59
1:F:182:CYS:SG	1:F:208:VAL:CG2	2.90	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:K:60:ILE:H	1:K:60:ILE:HD12	1.67	0.59
1:M:121:LEU:HD12	1:M:145:PHE:HD2	1.67	0.59
1:M:244:ARG:HB3	1:N:221:LEU:HD23	1.85	0.59
1:M:284:ILE:HD13	1:M:300:ARG:O	2.03	0.59
1:M:294:ASN:ND2	1:M:313:GLY:HA3	2.17	0.59
1:O:501:SER:HB3	1:O:508:PRO:HA	1.85	0.59
1:Q:77:ILE:HG13	1:Q:79:GLY:H	1.68	0.59
1:Q:180:LYS:C	1:Q:182:CYS:N	2.57	0.59
1:Q:260:VAL:O	1:Q:262:ASP:N	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:623:ARG:HG3	1:a:624:ASP:N	2.16	0.59
1:c:72:SER:HB3	1:c:84:ARG:HH21	1.68	0.59
1:c:284:ILE:HD11	1:c:300:ARG:HB3	1.85	0.59
1:d:60:ILE:HG22	1:d:66:SER:HA	1.84	0.59
1:d:120:ALA:O	1:d:161:GLU:HA	2.01	0.59
1:e:327:SER:CA	1:e:331:GLY:HA3	2.33	0.59
1:e:360:ARG:HG3	1:e:361:GLY:H	1.66	0.59
1:g:281:TYR:HE1	1:g:321:GLN:HB2	1.67	0.59
1:g:326:LEU:CD2	1:g:333:LEU:HG	2.33	0.59
1:g:472:ASP:HA	1:g:493:GLU:CB	2.32	0.59
1:h:182:CYS:SG	1:h:208:VAL:HB	2.42	0.59
1:i:18:VAL:CG1	1:i:48:VAL:HG22	2.27	0.59
1:i:623:ARG:HG2	1:i:624:ASP:H	1.67	0.59
1:j:15:TYR:CE2	1:j:17:HIS:HB3	2.37	0.59
1:j:54:PRO:HB2	1:j:55:PRO:HD3	1.84	0.59
1:j:115:VAL:H	1:j:118:ASN:ND2	2.01	0.59
1:j:182:CYS:SG	1:j:208:VAL:CG2	2.90	0.59
1:k:408:LEU:HD21	1:k:414:LEU:HD12	1.83	0.59
1:l:217:ASP:OD1	1:l:257:GLU:O	2.20	0.59
1:l:273:ILE:HG21	1:l:316:LEU:HD11	1.85	0.59
1:m:533:ASP:OD1	1:m:587:THR:HA	2.02	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:70:GLN:HB3	1:C:104:VAL:O	2.02	0.59
1:C:109:ILE:HD12	1:C:153:PRO:CG	2.32	0.59
1:C:654:LEU:CD1	1:D:662:ILE:HD13	2.33	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:E:204:TYR:O	1:E:206:PRO:HD3	2.02	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:I:755:THR:HG21	1:J:761:ARG:HG2	1.85	0.59
1:L:501:SER:HA	1:L:507:ARG:O	2.03	0.59
1:M:176:LEU:HB2	1:M:196:TRP:HB2	1.85	0.59
1:N:587:THR:HG23	1:N:590:ASP:HB3	1.84	0.59
1:O:224:LYS:HA	1:O:272:PRO:HG3	1.83	0.59
1:O:227:LEU:HB2	1:O:251:VAL:HG12	1.85	0.59
1:Q:4:GLU:OE2	1:Q:6:ALA:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:29:GLU:O	1:W:84:ARG:HD3	2.01	0.59
1:W:382:LEU:H	1:W:405:THR:HG22	1.67	0.59
1:Y:425:GLU:CD	1:Y:425:GLU:H	2.10	0.59
1:e:601:MET:CG	1:e:622:ALA:HB2	2.31	0.59
1:f:19:LEU:HD23	1:f:32:PRO:HB2	1.84	0.59
1:f:180:LYS:C	1:f:182:CYS:N	2.60	0.59
1:g:227:LEU:HB2	1:g:251:VAL:HG12	1.84	0.59
1:h:14:HIS:HB3	1:h:56:ARG:CB	2.32	0.59
1:h:564:VAL:HG21	1:h:631:ASN:ND2	2.17	0.59
1:h:802:LEU:HD12	1:h:806:THR:HG22	1.84	0.59
1:j:46:ALA:N	1:j:47:PRO:CD	2.66	0.59
1:l:113:GLN:OE1	1:l:149:GLY:HA2	2.02	0.59
1:l:221:LEU:HD22	1:l:256:THR:CG2	2.33	0.59
1:l:660:LEU:HA	1:l:663:GLU:HB3	1.83	0.59
1:m:185:ARG:HG3	1:m:206:PRO:CB	2.33	0.59
1:m:382:LEU:HD13	1:m:387:GLY:HA2	1.85	0.59
1:B:221:LEU:HA	1:B:253:VAL:HG13	1.83	0.59
1:B:327:SER:HB2	1:B:331:GLY:HA3	1.83	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:F:529:ILE:CD1	1:F:537:LEU:HB2	2.33	0.59
1:G:273:ILE:HG21	1:G:316:LEU:HD11	1.84	0.59
1:L:14:HIS:CB	1:L:56:ARG:CB	2.79	0.59
1:M:19:LEU:HA	1:M:32:PRO:HB2	1.84	0.59
1:M:115:VAL:N	1:M:118:ASN:HD22	2.01	0.59
1:M:227:LEU:CB	1:M:251:VAL:HG12	2.31	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:64:PRO:O	1:P:110:THR:HB	2.03	0.59
1:P:474:ARG:HG3	1:P:492:GLU:HB2	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:a:230:ARG:HH11	1:a:230:ARG:HB3	1.68	0.59
1:b:65:VAL:HG13	1:b:110:THR:HG22	1.85	0.59
1:b:221:LEU:HD21	1:b:256:THR:CG2	2.33	0.59
1:b:267:VAL:O	1:b:268:LEU:HB2	2.01	0.59
1:b:335:LYS:HZ3	1:b:335:LYS:CB	2.15	0.59
1:d:14:HIS:CB	1:d:56:ARG:HB2	2.29	0.59
1:d:194:GLU:HG2	1:d:195:GLU:H	1.67	0.59
1:d:327:SER:HB2	1:d:331:GLY:N	2.18	0.59
1:f:236:ARG:HB3	1:f:236:ARG:NH1	2.17	0.59
1:g:54:PRO:CB	1:g:55:PRO:HD3	2.14	0.59
1:g:579:VAL:HG22	1:g:599:ILE:HG23	1.84	0.59
1:g:811:ALA:C	1:g:813:ALA:H	2.11	0.59
1:h:165:ALA:CB	1:h:174:LEU:HD11	2.33	0.59
1:k:61:VAL:HG13	1:k:65:VAL:CG2	2.32	0.59
1:k:649:ARG:HH21	1:l:655:GLN:CG	2.16	0.59
1:l:5:GLU:CG	1:l:43:VAL:HG21	2.31	0.59
1:l:333:LEU:O	1:l:359:ILE:HD13	2.02	0.59
1:m:229:LEU:HD23	1:m:266:GLU:HA	1.84	0.59
1:A:19:LEU:HA	1:A:32:PRO:HB3	1.85	0.59
1:B:36:ILE:HG21	1:B:99:LEU:H	1.68	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:E:174:LEU:HB2	1:E:198:VAL:HB	1.84	0.59
1:E:284:ILE:HD13	1:E:284:ILE:N	2.17	0.59
1:F:68:ASP:O	1:F:106:GLU:HB2	2.02	0.59
1:I:284:ILE:HD13	1:I:284:ILE:N	2.16	0.59
1:K:245:THR:O	1:L:221:LEU:HD23	2.03	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
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:Y:220:ILE:C	1:Y:222:THR:H	2.11	0.59
1:Z:796:LYS:HA	1:Z:799:THR:HG22	1.85	0.59
1:a:3:THR:CG2	1:a:50:MET:HE1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:14:HIS:HB3	1:c:56:ARG:CG	2.32	0.59
1:c:84:ARG:NH2	1:c:101:PRO:HD2	2.15	0.59
1:c:273:ILE:HD13	1:c:310:LEU:HD21	1.85	0.59
1:d:505:PRO:HG2	1:d:507:ARG:HH12	1.67	0.59
1:e:5:GLU:HG2	1:e:43:VAL:HG21	1.85	0.59
1:e:564:VAL:CG2	1:e:631:ASN:ND2	2.66	0.59
1:f:587:THR:HG23	1:f:590:ASP:HB3	1.83	0.59
1:g:120:ALA:HB2	1:g:164:GLN:NE2	2.17	0.59
1:m:523:PHE:CD1	1:m:568:VAL:HG12	2.37	0.59
1:A:154:GLN:HG3	1:A:155:LYS:HG3	1.85	0.59
1:B:176:LEU:HB2	1:B:196:TRP:CB	2.32	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:G:311:GLN:HB2	1:G:314:GLU:HG3	1.84	0.59
1:I:402:ILE:HD12	1:I:402:ILE:O	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:O:68:ASP:HA	1:O:90:ILE:HA	1.85	0.59
1:P:54:PRO:HB2	1:P:55:PRO:CD	2.31	0.59
1:P:130:GLU:HB2	1:P:136:LYS:CA	2.32	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:R:580:ARG:HH22	1:S:595:SER:HB2	1.68	0.59
1:S:501:SER:HB3	1:S:508:PRO:HA	1.85	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:8:ILE:HA	1:W:40:ASN:HD22	1.68	0.59
1:W:262:ASP:HB3	1:W:264:TYR:CE1	2.37	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
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:Z:653:ALA:HB1	1:a:662:ILE:CD1	2.32	0.59
1:b:18:VAL:N	1:b:48:VAL:HG13	2.14	0.59
1:b:185:ARG:HG3	1:b:206:PRO:HB3	1.84	0.59
1:c:5:GLU:HG2	1:c:43:VAL:CG2	2.32	0.59
1:c:220:ILE:O	1:c:253:VAL:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:327:SER:HB2	1:c:331:GLY:N	2.18	0.59
1:d:417:LYS:O	1:d:418:GLU:HB2	2.02	0.59
1:e:5:GLU:HG2	1:e:43:VAL:CG2	2.33	0.59
1:e:755:THR:HG21	1:f:761:ARG:HG2	1.84	0.59
1:f:551:ASN:HB3	1:f:554:ASP:HB3	1.84	0.59
1:g:152:ILE:H	1:g:152:ILE:HD13	1.67	0.59
1:j:3:THR:H	1:j:50:MET:HE1	1.67	0.59
1:k:14:HIS:CB	1:k:56:ARG:CB	2.78	0.59
1:m:296:LEU:H	1:m:296:LEU:HD13	1.68	0.59
1:m:332:LEU:HD23	1:m:358:LEU:HD11	1.85	0.59
1:A:14:HIS:HD1	1:A:36:ILE:CG2	2.16	0.58
1:A:221:LEU:CD2	1:A:256:THR:HB	2.33	0.58
1:B:18:VAL:N	1:B:48:VAL:HG13	2.14	0.58
1:B:217:ASP:HB2	1:B:258:ALA:HA	1.84	0.58
1:B:745:LYS:HG3	1:C:753:ILE:HD13	1.84	0.58
1:C:165:ALA:HB1	1:C:174:LEU:HD11	1.83	0.58
1:F:14:HIS:HB2	1:F:56:ARG:HB2	1.83	0.58
1:F:807:ILE:HD12	1:F:808:ARG:N	2.18	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:K:402:ILE:O	1:K:402:ILE:HD12	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:W:490:ASP:CG	1:W:491:PRO:HD2	2.28	0.58
1:X:496:THR:O	1:X:496:THR:HG23	2.03	0.58
1:a:190:ARG:O	1:a:191:VAL:HG23	2.03	0.58
1:a:795:PHE:HZ	1:b:802:LEU:HD22	1.68	0.58
1:b:391:GLN:HB2	1:b:398:VAL:HG22	1.84	0.58
1:c:60:ILE:HD13	1:c:60:ILE:H	1.66	0.58
1:e:36:ILE:HG21	1:e:99:LEU:CD1	2.33	0.58
1:e:330:GLN:CG	1:e:379:ALA:HB3	2.33	0.58
1:e:338:GLN:HB2	1:e:339:PRO:HD3	1.85	0.58
1:f:30:VAL:HG13	1:f:74:LEU:HD11	1.83	0.58
1:f:777:LEU:HD11	1:g:783:LYS:HB2	1.84	0.58
1:g:122:HIS:O	1:g:159:VAL:N	2.30	0.58
1:g:204:TYR:O	1:g:206:PRO:HD3	2.02	0.58
1:h:459:SER:HB3	1:h:488:THR:CG2	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:109:ILE:HD12	1:i:153:PRO:CB	2.33	0.58
1:i:332:LEU:HD11	1:i:379:ALA:HB2	1.85	0.58
1:k:14:HIS:HB3	1:k:56:ARG:CB	2.33	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	2.19	0.58
1:B:759:LEU:HD22	1:C:768:MET:HG3	1.84	0.58
1:C:36:ILE:O	1:C:37:ARG:HG3	2.04	0.58
1:D:128:ASP:HB2	1:D:155:LYS:HB3	1.84	0.58
1:D:182:CYS:O	1:D:190:ARG:HB2	2.04	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:F:230:ARG:HG2	1:F:248:GLU:HG2	1.85	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:I:337:LEU:HD22	1:I:357:TRP:HZ3	1.68	0.58
1:L:284:ILE:H	1:L:284:ILE:HD13	1.68	0.58
1:L:338:GLN:CB	1:L:339:PRO:HD3	2.27	0.58
1:Q:90:ILE:HD12	1:Q:90:ILE:O	2.02	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: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:T:49:ARG:CZ	1:U:8:ILE:HG21	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: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:V:708:GLU:HG3	1:W:716:VAL:HG11	1.85	0.58
1:W:542:ALA:HB3	1:W:639:ASP:HB2	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:Z:473:TYR:HD2	1:a:486:LEU:HB3	1.68	0.58
1:b:54:PRO:HB2	1:b:55:PRO:CD	2.26	0.58
1:b:273:ILE:HD13	1:b:316:LEU:HD11	1.84	0.58
1:d:243:HIS:HE2	1:d:249:TRP:CG	2.21	0.58
1:e:68:ASP:HA	1:e:90:ILE:HA	1.85	0.58
1:e:90:ILE:HD13	1:e:90:ILE:H	1.67	0.58
1:g:185:ARG:HG3	1:g:206:PRO:CB	2.34	0.58
1:h:408:LEU:H	1:h:408:LEU:HD12	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:65:VAL:CG1	1:j:110:THR:HG22	2.32	0.58
1:A:399:ARG:NH2	1:A:412:GLU:OE2	2.31	0.58
1:D:465:ASN:ND2	1:D:520:PRO:HD2	2.17	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: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:109:ILE:HD12	1:I:153:PRO:CG	2.32	0.58
1:I:243:HIS:HE2	1:I:249:TRP:CG	2.21	0.58
1:L:175:ARG:NE	1:L:263:VAL:HG22	2.18	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:354:GLY:C	1:N:328:GLU:HG3	2.28	0.58
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:P:649:ARG:HH21	1:Q:655:GLN:HG2	1.68	0.58
1:Q:14:HIS:ND1	1:Q:36:ILE:HG22	2.18	0.58
1:Q:64:PRO:HA	1:Q:111:PRO:HD2	1.86	0.58
1:Q:333:LEU:HB2	1:Q:359:ILE:CD1	2.33	0.58
1:R:56:ARG:HH11	1:R:99:LEU:HD23	1.67	0.58
1:U:522:PHE:CD2	1:U:522:PHE:C	2.81	0.58
1:V:72:SER:HA	1:V:84:ARG:HG3	1.85	0.58
1:V:221:LEU:HD22	1:V:256:THR:HG21	1.84	0.58
1:X:796:LYS:HA	1:X:799:THR:HG22	1.85	0.58
1:Z:7:ILE:O	1:Z:41:GLU:HG3	2.03	0.58
1:Z:130:GLU:H	1:Z:137:VAL:HG12	1.68	0.58
1:b:14:HIS:HD1	1:b:36:ILE:CG2	2.16	0.58
1:b:221:LEU:CD2	1:b:256:THR:CG2	2.81	0.58
1:c:18:VAL:O	1:c:32:PRO:HB3	2.03	0.58
1:d:273:ILE:HD11	1:d:308:PHE:CD2	2.35	0.58
1:d:623:ARG:CG	1:d:624:ASP:H	2.17	0.58
1:d:709:LEU:HD23	1:d:712:MET:CE	2.34	0.58
1:e:11:PRO:HB2	1:e:12:PRO:HD3	1.85	0.58
1:e:469:GLN:HB3	1:e:496:THR:CG2	2.34	0.58
1:f:71:SER:OG	1:f:73:VAL:HG23	2.04	0.58
1:h:3:THR:H	1:h:50:MET:HE1	1.68	0.58
1:i:100:TYR:HB3	1:i:101:PRO:HD2	1.85	0.58
1:i:281:TYR:HE1	1:i:321:GLN:HB2	1.68	0.58
1:j:221:LEU:CD2	1:j:256:THR:CG2	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:9:ARG:NH1	1:l:36:ILE:HA	2.10	0.58
1:m:3:THR:HG22	1:m:50:MET:CE	2.33	0.58
1:A:764:LYS:HB3	1:m:759:LEU:HD11	1.85	0.58
1:D:46:ALA:N	1:D:47:PRO:HD3	2.18	0.58
1:F:62:ALA:O	1:F:93:ALA:HB2	2.04	0.58
1:H:227:LEU:HB2	1:H:251:VAL:CG1	2.34	0.58
1:H:729:ARG:HB2	1:H:729:ARG:NH1	2.18	0.58
1:I:175:ARG:HE	1:I:263:VAL:HG22	1.67	0.58
1:I:352:GLN:O	1:I:355:ASP:HB3	2.03	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: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:54:PRO:CB	1:L:55:PRO:HD3	2.13	0.58
1:L:61:VAL:HG22	1:L:65:VAL:CG2	2.33	0.58
1:L:336:ALA:HA	1:L:356:CYS:HB2	1.84	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:P:220:ILE:CD1	1:P:251:VAL:HG13	2.33	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:5:GLU:OE1	1:R:43:VAL:HG11	2.03	0.58
1:R:109:ILE:CD1	1:R:153:PRO:CB	2.76	0.58
1:S:18:VAL:N	1:S:48:VAL:HG13	2.16	0.58
1:S:43:VAL:HG12	1:S:45:PHE:O	2.03	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:71:SER:HB3	1:T:84:ARG:O	2.03	0.58
1:T:221:LEU:CD2	1:T:256:THR:HB	2.31	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
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:542:ALA:HB3	1:Y:639:ASP:HB2	1.85	0.58
1:Z:36:ILE:HD12	1:Z:36:ILE:C	2.28	0.58
1:c:18:VAL:N	1:c:48:VAL:HG13	2.17	0.58
1:c:255:ASP:CG	1:c:256:THR:H	2.11	0.58
1:e:19:LEU:HA	1:e:32:PRO:HB3	1.84	0.58
1:i:130:GLU:N	1:i:137:VAL:HG13	2.18	0.58
1:j:10:ILE:HD13	1:j:13:TYR:CD2	2.37	0.58
1:j:529:ILE:HD12	1:j:537:LEU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:56:ARG:HH11	1:l:99:LEU:HD23	1.68	0.58
1:l:399:ARG:HG2	1:l:399:ARG:NH1	2.18	0.58
1:D:252:THR:O	1:D:254:GLN:N	2.35	0.58
1:F:597:ARG:HG3	1:F:600:ARG:HH21	1.68	0.58
1:G:481:VAL:HG11	1:G:487:VAL:HG11	1.85	0.58
1:H:287:PRO:HA	1:H:314:GLU:OE2	2.03	0.58
1:H:495:PHE:HB3	1:H:514:LEU:CD1	2.34	0.58
1:J:767:GLU:O	1:J:771:ILE:HD13	2.03	0.58
1:K:221:LEU:CD2	1:K:256:THR:CG2	2.82	0.58
1:L:115:VAL:N	1:L:118:ASN:ND2	2.51	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: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:18:VAL:N	1:a:48:VAL:HG13	2.14	0.58
1:a:196:TRP:HA	1:a:196:TRP:HE3	1.68	0.58
1:a:332:LEU:HD21	1:a:407:MET:HB3	1.86	0.58
1:a:490:ASP:CG	1:a:491:PRO:HD2	2.28	0.58
1:c:2:ALA:HB3	1:c:46:ALA:O	2.03	0.58
1:c:781:VAL:HG21	1:d:786:GLN:OE1	2.04	0.58
1:e:180:LYS:HD2	1:e:208:VAL:HG12	1.84	0.58
1:e:220:ILE:O	1:e:253:VAL:HG22	2.03	0.58
1:e:391:GLN:HB2	1:e:398:VAL:HG22	1.84	0.58
1:e:551:ASN:HB3	1:e:554:ASP:HB3	1.85	0.58
1:e:781:VAL:HG21	1:f:786:GLN:OE1	2.02	0.58
1:g:175:ARG:NE	1:g:263:VAL:HG22	2.18	0.58
1:g:236:ARG:HB3	1:g:236:ARG:NH1	2.18	0.58
1:j:332:LEU:HD23	1:j:358:LEU:HD11	1.86	0.58
1:k:60:ILE:CG1	1:k:93:ALA:HA	2.34	0.58
1:k:252:THR:H	1:k:254:GLN:NE2	2.01	0.58
1:k:320:ILE:HD13	1:k:320:ILE:N	2.18	0.58
1:l:46:ALA:N	1:l:47:PRO:CD	2.67	0.58
1:l:419:LEU:HD22	1:l:422:GLY:H	1.69	0.58
1:l:476:LYS:HE2	1:m:485:GLU:HG3	1.85	0.58
1:l:573:LYS:HE3	1:m:522:PHE:CZ	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:506:LYS:HE2	1:B:524:THR:O	2.03	0.58
1:C:697:SER:HA	1:D:706:LEU:HD23	1.85	0.58
1:D:175:ARG:HE	1:D:263:VAL:HG22	1.68	0.58
1:D:729:ARG:NH1	1:D:729:ARG:HB2	2.18	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:H:176:LEU:HD13	1:H:209:PHE:CD1	2.39	0.58
1:I:472:ASP:HA	1:I:493:GLU:CB	2.34	0.58
1:L:16:ILE:HA	1:L:34:THR:OG1	2.03	0.58
1:L:137:VAL:HG23	1:L:138:MET:H	1.67	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:b:90:ILE:N	1:b:90:ILE:CD1	2.56	0.58
1:b:284:ILE:CD1	1:b:300:ARG:HB3	2.34	0.58
1:c:14:HIS:HB3	1:c:56:ARG:HB2	1.85	0.58
1:c:154:GLN:HG3	1:c:155:LYS:N	2.18	0.58
1:c:332:LEU:HB2	1:c:377:ARG:HB3	1.86	0.58
1:d:72:SER:HB3	1:d:84:ARG:HH21	1.68	0.58
1:d:227:LEU:O	1:d:250:LEU:HA	2.02	0.58
1:d:762:VAL:O	1:d:766:ARG:HB2	2.04	0.58
1:f:529:ILE:HD12	1:f:537:LEU:HB2	1.84	0.58
1:l:377:ARG:NH1	1:l:408:LEU:O	2.36	0.58
1:m:250:LEU:HD23	1:m:250:LEU:O	2.03	0.58
1:m:279:ARG:O	1:m:323:VAL:N	2.36	0.58
1:A:5:GLU:CG	1:A:43:VAL:HG21	2.33	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: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:E:332:LEU:HD21	1:E:407:MET:HB2	1.85	0.58
1:F:36:ILE:HG21	1:F:99:LEU:CD1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:36:ILE:O	1:K:37:ARG:HG3	2.04	0.58
1:K:623:ARG:HG2	1:K:624:ASP:H	1.68	0.58
1:L:58:TYR:HD1	1:L:99:LEU:CD1	2.17	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: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:O	1:O:402:ILE:HD12	2.04	0.58
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:HD13	1:P:388:ILE:N	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:b:676:GLU:HA	1:b:676:GLU:OE1	2.02	0.58
1:c:196:TRP:HA	1:c:196:TRP:CE3	2.39	0.58
1:c:255:ASP:CG	1:c:256:THR:N	2.62	0.58
1:c:391:GLN:HB2	1:c:398:VAL:HG22	1.86	0.58
1:f:18:VAL:CG1	1:f:48:VAL:HG22	2.24	0.58
1:h:67:ARG:NH2	1:h:107:LYS:HA	2.18	0.58
1:h:120:ALA:O	1:h:161:GLU:HA	2.03	0.58
1:j:14:HIS:HD1	1:j:36:ILE:CG2	2.16	0.58
1:j:220:ILE:HD12	1:j:220:ILE:O	2.04	0.58
1:l:337:LEU:HD22	1:l:357:TRP:CZ3	2.39	0.58
1:m:469:GLN:HB3	1:m:496:THR:CG2	2.33	0.58
1:B:63:ASN:N	1:B:64:PRO:HD2	2.18	0.58
1:B:230:ARG:HH11	1:B:230:ARG:HB3	1.69	0.58
1:B:417:LYS:O	1:B:418:GLU:HB2	2.03	0.58
1:B:600:ARG:NH1	1:B:622:ALA:HB3	2.19	0.58
1:F:469:GLN:HB3	1:F:496:THR:HG21	1.86	0.58
1:F:804:PRO:O	1:F:807:ILE:HD11	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:527:ILE:HD11	1:G:539:LEU:HB2	1.86	0.58
1:I:30:VAL:HG13	1:I:74:LEU:HD11	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:J:61:VAL:HG13	1:J:65:VAL:HG23	1.86	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: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:K:522:PHE:CD2	1:K:522:PHE:C	2.81	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:46:ALA:N	1:N:47:PRO:CD	2.67	0.58
1:N:174:LEU:HB2	1:N:198:VAL:HB	1.86	0.58
1:P:109:ILE:HD12	1:P:153:PRO:HG2	1.84	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:84:ARG:HH22	1:U:101:PRO:HD2	1.69	0.58
1:U:452:ARG:HG3	1:U:452:ARG:NH1	2.16	0.58
1:W:9:ARG:NH1	1:W:36:ILE:HA	2.18	0.58
1:X:5:GLU:HG2	1:X:43:VAL:CG2	2.33	0.58
1:X:368:SER:HB3	1:X:371:VAL:HG23	1.85	0.58
1:a:85:HIS:NE2	1:a:102:GLY:HA3	2.19	0.58
1:a:180:LYS:O	1:a:182:CYS:N	2.36	0.58
1:b:151:TYR:HD2	1:b:152:ILE:HD13	1.69	0.58
1:b:660:LEU:HD13	1:b:663:GLU:HG2	1.86	0.58
1:d:190:ARG:O	1:d:191:VAL:HG23	2.04	0.58
1:e:152:ILE:HD11	1:e:155:LYS:NZ	2.19	0.58
1:f:58:TYR:CD1	1:f:99:LEU:HD12	2.37	0.58
1:f:332:LEU:CD2	1:f:407:MET:HB2	2.30	0.58
1:f:605:GLY:O	1:f:623:ARG:HB2	2.02	0.58
1:g:8:ILE:HG22	1:g:40:ASN:ND2	2.18	0.58
1:g:382:LEU:HB2	1:g:404:SER:O	2.04	0.58
1:h:194:GLU:HG2	1:h:195:GLU:H	1.69	0.58
1:h:704:LYS:HD2	1:i:712:MET:HB3	1.85	0.58
1:i:384:GLN:H	1:i:384:GLN:NE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:481:VAL:HG11	1:k:487:VAL:CG1	2.33	0.58
1:m:221:LEU:CD2	1:m:256:THR:HG21	2.31	0.58
1:A:100:TYR:HB3	1:A:101:PRO:CD	2.34	0.58
1:A:152:ILE:CD1	1:A:152:ILE:N	2.65	0.58
1:B:338:GLN:OE1	1:C:278:PRO:HB2	2.04	0.58
1:D:19:LEU:HA	1:D:32:PRO:HB2	1.86	0.58
1:D:169:LYS:HG3	1:D:170:GLN:H	1.67	0.58
1:D:481:VAL:HG11	1:D:487:VAL:HG11	1.86	0.58
1:D:580:ARG:HH22	1:E:595:SER:HB2	1.68	0.58
1:E:176:LEU:HB2	1:E:196:TRP:HB2	1.85	0.58
1:F:46:ALA:N	1:F:47:PRO:HD3	2.19	0.58
1:F:227:LEU:HB2	1:F:251:VAL:HG12	1.86	0.58
1:F:540:GLN:O	1:F:641:GLN:HG2	2.03	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: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:V:354:GLY:C	1:W:328:GLU:HG3	2.29	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:c:472:ASP:HA	1:c:493:GLU:CB	2.34	0.58
1:f:339:PRO:HD2	1:f:370:LYS:HB3	1.86	0.58
1:h:70:GLN:HB3	1:h:104:VAL:O	2.04	0.58
1:k:217:ASP:OD1	1:k:257:GLU:O	2.21	0.58
1:l:115:VAL:O	1:l:118:ASN:HB2	2.02	0.58
1:l:354:GLY:O	1:l:356:CYS:N	2.36	0.58
1:m:54:PRO:CB	1:m:55:PRO:HD3	2.27	0.58
1:m:169:LYS:HG3	1:m:170:GLN:H	1.68	0.58
1:m:291:ASP:C	1:m:293:LYS:H	2.12	0.58
1:D:19:LEU:HA	1:D:32:PRO:HB3	1.85	0.58
1:F:596:ALA:O	1:F:600:ARG:HB2	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:174:LEU:CB	1:M:198:VAL:HB	2.34	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:18:VAL:N	1:V:48:VAL:HG13	2.18	0.58
1:V:191:VAL:HG12	1:V:194:GLU:HB2	1.85	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:185:ARG:NH2	1:b:208:VAL:HG22	2.19	0.58
1:b:481:VAL:HG11	1:b:487:VAL:HG11	1.83	0.58
1:b:752:ALA:O	1:b:756:GLU:HB2	2.02	0.58
1:c:221:LEU:HD13	1:c:256:THR:HB	1.86	0.58
1:c:459:SER:CB	1:c:488:THR:HG22	2.33	0.58
1:e:60:ILE:N	1:e:60:ILE:HD13	2.19	0.58
1:f:73:VAL:HG11	1:f:82:ARG:HB2	1.86	0.58
1:g:90:ILE:H	1:g:90:ILE:HD13	1.69	0.58
1:h:84:ARG:HH22	1:h:101:PRO:HD2	1.69	0.58
1:j:384:GLN:HE21	1:j:384:GLN:N	2.01	0.58
1:k:46:ALA:N	1:k:47:PRO:HD3	2.18	0.58
1:l:580:ARG:NH2	1:m:595:SER:HB2	2.08	0.58
1:C:542:ALA:HB3	1:C:639:ASP:HB2	1.85	0.57
1:D:16:ILE:HB	1:D:51:VAL:HB	1.86	0.57
1:D:261:PRO:HD2	1:D:264:TYR:HB2	1.86	0.57
1:D:302:VAL:HG21	1:D:308:PHE:CE2	2.38	0.57
1:D:543:TYR:CE2	1:D:575:ILE:HG21	2.39	0.57
1:F:273:ILE:CD1	1:F:316:LEU:HD21	2.33	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:L:402:ILE:O	1:L:402:ILE:HD12	2.03	0.57
1:N:14:HIS:HB2	1:N:56:ARG:HB2	1.86	0.57
1:N:481:VAL:O	1:N:481:VAL:HG13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:36:ILE:O	1:X:37:ARG:HG3	2.04	0.57
1:X:109:ILE:HD12	1:X:153:PRO:CG	2.34	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:b:6:ALA:HA	1:b:41:GLU:O	2.04	0.57
1:c:230:ARG:HH11	1:c:230:ARG:HB3	1.67	0.57
1:e:64:PRO:HA	1:e:111:PRO:HD2	1.86	0.57
1:e:215:LEU:HD12	1:e:259:HIS:HE2	1.69	0.57
1:f:239:ARG:NH2	1:f:257:GLU:HG2	2.19	0.57
1:g:419:LEU:HD22	1:g:422:GLY:H	1.68	0.57
1:i:571:ALA:O	1:i:575:ILE:HG13	2.03	0.57
1:l:476:LYS:CE	1:m:485:GLU:HG3	2.34	0.57
1:m:185:ARG:HH22	1:m:207:ALA:HB3	1.69	0.57
1:m:272:PRO:HB3	1:m:309:PHE:CE2	2.39	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: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:H:121:LEU:HB2	1:H:145:PHE:HB3	1.86	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:O:127:LEU:HD12	1:P:64:PRO:HG3	1.84	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:Q:199:ARG:NH2	1:Q:258:ALA:HB3	2.19	0.57
1:S:36:ILE:HD13	1:S:36:ILE:O	2.03	0.57
1:S:402:ILE:HD13	1:S:402:ILE:N	2.19	0.57
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:9:ARG:NH1	1:V:36:ILE:HA	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:332:LEU:HD23	1:V:358:LEU:HD12	1.86	0.57
1:W:46:ALA:N	1:W:47:PRO:CD	2.66	0.57
1:W:182:CYS:SG	1:W:208:VAL:CG2	2.91	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:243:HIS:HE2	1:a:249:TRP:CG	2.22	0.57
1:d:7:ILE:O	1:d:41:GLU:HG3	2.03	0.57
1:e:152:ILE:CD1	1:e:155:LYS:HZ3	2.17	0.57
1:e:164:GLN:CD	1:e:204:TYR:HB3	2.29	0.57
1:g:227:LEU:O	1:g:250:LEU:HA	2.04	0.57
1:g:324:TYR:O	1:g:365:TYR:N	2.32	0.57
1:h:14:HIS:NE2	1:h:16:ILE:HD11	2.19	0.57
1:h:745:LYS:CG	1:i:753:ILE:CD1	2.75	0.57
1:j:771:ILE:HD13	1:j:774:ARG:NH1	2.18	0.57
1:k:106:GLU:O	1:k:107:LYS:HD2	2.03	0.57
1:l:20:ASP:HB2	1:l:49:ARG:HD3	1.85	0.57
1:l:221:LEU:HD22	1:l:256:THR:HG21	1.85	0.57
1:m:106:GLU:O	1:m:107:LYS:HD2	2.04	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:563:SER:HB3	1:E:520:PRO:HG3	1.85	0.57
1:E:382:LEU:HB2	1:E:404:SER:O	2.04	0.57
1:E:474:ARG:CG	1:E:492:GLU:HB2	2.34	0.57
1:G:185:ARG:HG3	1:G:206:PRO:HB3	1.85	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: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:L:121:LEU:HB2	1:L:145:PHE:HB3	1.86	0.57
1:L:354:GLY:C	1:M:328:GLU:HG3	2.29	0.57
1:M:244:ARG:HB3	1:N:221:LEU:CD2	2.34	0.57
1:M:262:ASP:HB3	1:M:264:TYR:CE1	2.38	0.57
1:M:476:LYS:HE2	1:N:485:GLU:HG3	1.86	0.57
1:O:135:ASP:C	1:O:136:LYS:HG3	2.30	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:46:ALA:N	1:U:47:PRO:CD	2.67	0.57
1:U:252:THR:O	1:U:254:GLN:N	2.37	0.57
1:V:8:ILE:HG22	1:V:40:ASN:ND2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:766:ARG:HD3	1:W:772:TYR:HB2	1.85	0.57
1:X:70:GLN:HB3	1:X:104:VAL:O	2.03	0.57
1:X:359:ILE:O	1:X:359:ILE:HD12	2.04	0.57
1:Z:281:TYR:CE1	1:Z:321:GLN:HB2	2.39	0.57
1:Z:580:ARG:HH22	1:a:595:SER:HB2	1.68	0.57
1:b:580:ARG:HH22	1:c:595:SER:HB2	1.69	0.57
1:c:396:GLY:CA	1:d:405:THR:HG23	2.34	0.57
1:d:296:LEU:N	1:d:296:LEU:HD22	2.19	0.57
1:e:341:GLU:HG2	1:e:370:LYS:HD3	1.87	0.57
1:f:560:LYS:HD2	1:f:630:GLN:O	2.03	0.57
1:g:123:LEU:HG	1:g:143:TRP:HB2	1.86	0.57
1:g:476:LYS:HE2	1:h:485:GLU:HG3	1.85	0.57
1:j:320:ILE:N	1:j:320:ILE:HD13	2.19	0.57
1:j:402:ILE:O	1:j:402:ILE:HD12	2.04	0.57
1:k:36:ILE:HG21	1:k:99:LEU:HD13	1.86	0.57
1:k:452:ARG:HH11	1:k:452:ARG:HG3	1.68	0.57
1:l:402:ILE:HD12	1:l:402:ILE:O	2.04	0.57
1:A:273:ILE:HD11	1:A:308:PHE:HD2	1.70	0.57
1:A:332:LEU:HD21	1:A:407:MET:HB3	1.85	0.57
1:A:573:LYS:HE3	1:B:522:PHE:CZ	2.39	0.57
1:B:337:LEU:HD22	1:B:357:TRP:CZ3	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:J:221:LEU:HD22	1:J:256:THR:HB	1.85	0.57
1:K:704:LYS:HD2	1:L:712:MET:HB3	1.87	0.57
1:M:123:LEU:HG	1:M:143:TRP:HB2	1.85	0.57
1:N:176:LEU:HD13	1:N:209:PHE:CD1	2.34	0.57
1:O:90:ILE:O	1:O:90:ILE:HD12	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:220:ILE:O	1:R:253:VAL:HG22	2.04	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: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:14:HIS:CB	1:V:56:ARG:HB2	2.34	0.57
1:V:522:PHE:CD2	1:V:522:PHE:C	2.82	0.57
1:V:540:GLN:HB2	1:V:642:SER:HB3	1.86	0.57
1:W:151:TYR:CD2	1:W:152:ILE:HD13	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z:653:ALA:HB1	1:a:662:ILE:HD11	1.83	0.57
1:a:589:ASP:HB2	1:b:665:THR:HG21	1.86	0.57
1:b:336:ALA:HA	1:b:356:CYS:CB	2.35	0.57
1:g:522:PHE:C	1:g:522:PHE:CD2	2.82	0.57
1:h:115:VAL:HB	1:h:148:PRO:HA	1.85	0.57
1:i:589:ASP:HB2	1:j:665:THR:HG21	1.87	0.57
1:j:217:ASP:OD1	1:j:257:GLU:O	2.22	0.57
1:k:17:HIS:CD2	1:k:18:VAL:HG22	2.39	0.57
1:m:90:ILE:CD1	1:m:154:GLN:HG2	2.34	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: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:381:PRO:CA	1:E:405:THR:HG22	2.35	0.57
1:G:10:ILE:HD13	1:G:13:TYR:CD2	2.38	0.57
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:J:5:GLU:CG	1:J:43:VAL:HG21	2.35	0.57
1:K:58:TYR:CD1	1:K:98:PRO:HA	2.39	0.57
1:K:224:LYS:O	1:K:272:PRO:HD3	2.05	0.57
1:L:128:ASP:OD1	1:L:131:ASP:HB3	2.04	0.57
1:L:382:LEU:HD13	1:L:387:GLY:HA2	1.85	0.57
1:M:19:LEU:HD23	1:M:32:PRO:HB2	1.86	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:M:605:GLY:O	1:M:623:ARG:HB2	2.05	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: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:472:ASP:HA	1:a:493:GLU:CB	2.34	0.57
1:a:766:ARG:HG3	1:b:772:TYR:CD1	2.39	0.57
1:b:452:ARG:NH2	1:b:458:VAL:HG22	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:459:SER:HB3	1:c:488:THR:HG22	1.86	0.57
1:e:490:ASP:CG	1:e:491:PRO:HD2	2.28	0.57
1:g:184:ASP:HB2	1:g:189:GLY:O	2.05	0.57
1:i:701:LYS:HG3	1:j:709:LEU:HD13	1.86	0.57
1:j:319:GLY:C	1:j:320:ILE:HD13	2.29	0.57
1:m:354:GLY:O	1:m:356:CYS:N	2.37	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:HD13	1:D:152:ILE:H	1.69	0.57
1:F:164:GLN:NE2	1:F:204:TYR:HB2	2.19	0.57
1:G:174:LEU:HB2	1:G:198:VAL:HB	1.87	0.57
1:H:85:HIS:NE2	1:H:102:GLY:HA3	2.20	0.57
1:I:408:LEU:H	1:I:408:LEU:HD12	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: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:O:291:ASP:C	1:O:293:LYS:H	2.12	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:15:TYR:CE2	1:S:17:HIS:HB3	2.40	0.57
1:S:121:LEU:HD12	1:S:145:PHE:HD2	1.69	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:46:ALA:N	1:V:47:PRO:CD	2.68	0.57
1:V:262:ASP:HB3	1:V:264:TYR:CE1	2.40	0.57
1:V:551:ASN:HB2	1:V:557:GLU:OE2	2.04	0.57
1:X:163:ILE:O	1:X:163:ILE:HD12	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:16:ILE:HB	1:a:51:VAL:HB	1.86	0.57
1:a:115:VAL:O	1:a:118:ASN:HB3	2.04	0.57
1:e:689:GLU:O	1:e:693:ILE:HD13	2.05	0.57
1:f:72:SER:HB3	1:f:84:ARG:HH21	1.68	0.57
1:f:276:LEU:O	1:f:277:GLY:C	2.47	0.57
1:g:8:ILE:HA	1:g:40:ASN:HD22	1.69	0.57
1:h:183:PHE:HE2	1:h:188:LYS:HA	1.68	0.57
1:i:121:LEU:HB2	1:i:145:PHE:HB3	1.86	0.57
1:l:125:ALA:HB3	1:l:140:GLY:HA2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:399:ARG:HA	1:l:491:PRO:HG3	1.87	0.57
1:l:759:LEU:HD21	1:m:765:VAL:HG22	1.86	0.57
1:A:14:HIS:HB3	1:A:56:ARG:HB2	1.86	0.57
1:A:46:ALA:N	1:A:47:PRO:CD	2.67	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:E:8:ILE:HG22	1:E:40:ASN:ND2	2.20	0.57
1:F:229:LEU:HD23	1:F:266:GLU:HA	1.86	0.57
1:G:46:ALA:N	1:G:47:PRO:CD	2.66	0.57
1:G:653:ALA:HB3	1:H:662:ILE:HD11	1.84	0.57
1:H:704:LYS:HD2	1:I:712:MET:HB3	1.87	0.57
1:J:330:GLN:O	1:J:378:GLN:NE2	2.38	0.57
1:L:523:PHE:CE1	1:L:568:VAL:HG12	2.38	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:73:VAL:N	1:P:84:ARG:HB2	2.08	0.57
1:P:296:LEU:N	1:P:296:LEU:HD22	2.20	0.57
1:R:67:ARG:NE	1:R:108:ASP:HB3	2.18	0.57
1:R:155:LYS:H	1:R:155:LYS:HZ2	1.51	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:43:VAL:HG12	1:T:45:PHE:O	2.04	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: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:123:LEU:CG	1:a:143:TRP:HB2	2.33	0.57
1:a:221:LEU:HA	1:a:253:VAL:HG13	1.86	0.57
1:a:368:SER:HB3	1:a:371:VAL:HG23	1.87	0.57
1:b:506:LYS:HE2	1:b:524:THR:O	2.04	0.57
1:c:70:GLN:CB	1:c:104:VAL:O	2.42	0.57
1:d:108:ASP:OD1	1:d:108:ASP:N	2.36	0.57
1:d:360:ARG:HG3	1:d:361:GLY:N	2.20	0.57
1:d:759:LEU:HD21	1:e:765:VAL:HG22	1.86	0.57
1:d:777:LEU:HD11	1:e:783:LYS:CB	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:221:LEU:HD21	1:g:256:THR:CG2	2.34	0.57
1:g:470:VAL:HB	1:g:479:ARG:HD2	1.87	0.57
1:i:18:VAL:N	1:i:48:VAL:HG13	2.14	0.57
1:j:239:ARG:NH2	1:j:257:GLU:HG2	2.19	0.57
1:k:73:VAL:H	1:k:84:ARG:HG3	1.68	0.57
1:k:221:LEU:CD2	1:k:256:THR:CB	2.81	0.57
1:k:511:ARG:HH22	1:k:517:LEU:HD11	1.69	0.57
1:l:252:THR:H	1:l:254:GLN:NE2	2.02	0.57
1:l:337:LEU:HG	1:l:354:GLY:H	1.69	0.57
1:m:176:LEU:HD22	1:m:209:PHE:HB3	1.86	0.57
1:A:586:VAL:HG12	1:A:587:THR:O	2.05	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:E:123:LEU:HA	1:E:158:GLU:HA	1.84	0.57
1:F:472:ASP:HA	1:F:493:GLU:CB	2.35	0.57
1:G:501:SER:HB3	1:G:508:PRO:HA	1.87	0.57
1:J:36:ILE:O	1:J:36:ILE:CD1	2.48	0.57
1:J:208:VAL:HG23	1:J:209:PHE:HD2	1.70	0.57
1:J:294:ASN:HD21	1:J:313:GLY:CA	2.18	0.57
1:J:529:ILE:CD1	1:J:537:LEU:HB2	2.34	0.57
1:J:601:MET:CG	1:J:622:ALA:HB2	2.33	0.57
1:K:77:ILE:HG13	1:K:79:GLY:H	1.70	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:3:THR:HG22	1:R:50:MET:HE2	1.87	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:T:573:LYS:HE3	1:U:522:PHE:CZ	2.39	0.57
1:U:5:GLU:O	1:U:41:GLU:O	2.22	0.57
1:U:54:PRO:CB	1:U:55:PRO:HD3	2.25	0.57
1:U:469:GLN:O	1:U:496:THR:HB	2.04	0.57
1:V:174:LEU:H	1:V:198:VAL:HB	1.70	0.57
1:W:36:ILE:O	1:W:36:ILE:HG13	2.04	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:X:30:VAL:HG13	1:X:74:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:291:ASP:C	1:X:293:LYS:H	2.11	0.57
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:b:115:VAL:N	1:b:118:ASN:HD22	2.00	0.57
1:c:580:ARG:HH22	1:d:595:SER:CB	2.13	0.57
1:d:10:ILE:HD12	1:d:10:ILE:N	2.17	0.57
1:d:758:GLU:O	1:d:762:VAL:HG23	2.05	0.57
1:e:152:ILE:CD1	1:e:155:LYS:NZ	2.67	0.57
1:e:276:LEU:O	1:e:277:GLY:C	2.48	0.57
1:g:14:HIS:HB3	1:g:56:ARG:CG	2.34	0.57
1:g:689:GLU:O	1:g:693:ILE:HD13	2.04	0.57
1:i:180:LYS:C	1:i:182:CYS:N	2.61	0.57
1:j:5:GLU:CA	1:j:7:ILE:CD1	2.82	0.57
1:j:268:LEU:HD13	1:j:269:GLY:H	1.68	0.57
1:k:70:GLN:HB3	1:k:104:VAL:H	1.69	0.57
1:k:146:GLU:OE1	1:k:146:GLU:HA	2.03	0.57
1:l:14:HIS:HB2	1:l:56:ARG:HB2	1.85	0.57
1:l:408:LEU:HD21	1:l:414:LEU:HD12	1.85	0.57
1:l:600:ARG:NH1	1:l:622:ALA:HB3	2.20	0.57
1:A:129:PHE:O	1:A:137:VAL:O	2.22	0.57
1:A:164:GLN:HB3	1:A:204:TYR:HA	1.86	0.57
1:A:319:GLY:C	1:A:320:ILE:HD13	2.30	0.57
1:B:384:GLN:HE21	1:B:384:GLN:N	1.93	0.57
1:B:715:ALA:HA	1:C:724:ALA:HB1	1.87	0.57
1:D:9:ARG:NH1	1:D:36:ILE:HA	2.18	0.57
1:D:363:LEU:HD13	1:D:364:GLU:H	1.69	0.57
1:E:334:LEU:HD12	1:E:377:ARG:NH2	2.18	0.57
1:E:380:ILE:HD13	1:E:388:ILE:HD13	1.86	0.57
1:E:745:LYS:HG3	1:F:753:ILE:HD11	1.86	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:K:30:VAL:HG22	1:K:74:LEU:HG	1.86	0.57
1:K:109:ILE:CD1	1:K:153:PRO:HG2	2.35	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:N:296:LEU:N	1:N:296:LEU:HD22	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:379:ALA:HB2	1:Q:407:MET:HB3	1.87	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
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:HD13	1:W:284:ILE:N	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:Y:580:ARG:HD2	1:Z:640:VAL:O	2.05	0.57
1:Z:228:HIS:NE2	1:Z:312:PRO:HB3	2.19	0.57
1:Z:394:LYS:HA	1:a:329:GLN:NE2	2.20	0.57
1:a:175:ARG:HB3	1:a:212:VAL:HB	1.87	0.57
1:a:227:LEU:HB2	1:a:251:VAL:CG1	2.34	0.57
1:b:90:ILE:HD12	1:b:154:GLN:CG	2.34	0.57
1:b:120:ALA:O	1:b:161:GLU:HA	2.05	0.57
1:b:217:ASP:OD2	1:b:257:GLU:O	2.22	0.57
1:b:472:ASP:HA	1:b:493:GLU:HB3	1.86	0.57
1:c:155:LYS:HB2	1:c:155:LYS:HZ2	1.69	0.57
1:d:391:GLN:HB2	1:d:398:VAL:HG22	1.87	0.57
1:e:14:HIS:NE2	1:e:16:ILE:HD11	2.20	0.57
1:e:130:GLU:HA	1:e:136:LYS:HA	1.86	0.57
1:f:184:ASP:HB3	1:f:187:GLY:O	2.05	0.57
1:g:490:ASP:CG	1:g:491:PRO:HD2	2.30	0.57
1:h:354:GLY:HA3	1:i:328:GLU:HG3	1.87	0.57
1:h:663:GLU:O	1:h:666:THR:HG22	2.05	0.57
1:j:190:ARG:O	1:j:191:VAL:HG23	2.04	0.57
1:j:777:LEU:HD11	1:k:783:LYS:CB	2.31	0.57
1:k:7:ILE:O	1:k:41:GLU:HG2	2.04	0.57
1:l:227:LEU:O	1:l:250:LEU:HA	2.05	0.57
1:m:8:ILE:H	1:m:8:ILE:CD1	2.17	0.57
1:m:46:ALA:N	1:m:47:PRO:CD	2.67	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:C:518:LEU:HA	1:C:547:PHE:HD1	1.69	0.57
1:D:727:GLU:HG3	1:E:735:ILE:CD1	2.34	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:I:46:ALA:N	1:I:47:PRO:CD	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:474:ARG:CG	1:I:492:GLU:HB2	2.34	0.57
1:J:73:VAL:HG11	1:J:82:ARG:HB2	1.86	0.57
1:K:60:ILE:HD13	1:K:93:ALA:HA	1.87	0.57
1:K:180:LYS:HB3	1:L:116:LEU:HD13	1.86	0.57
1:K:332:LEU:HB2	1:K:377:ARG:HB3	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: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:T:522:PHE:C	1:T:522:PHE:CD2	2.82	0.57
1:T:719:THR:HG22	1:U:728:SER:HA	1.87	0.57
1:U:494:GLN:HA	1:U:494:GLN:NE2	2.19	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
1:Y:77:ILE:HG13	1:Y:80:GLN:N	2.13	0.57
1:Y:601:MET:HG2	1:Y:622:ALA:CB	2.34	0.57
1:Z:72:SER:HA	1:Z:84:ARG:HG3	1.85	0.57
1:a:284:ILE:HD13	1:a:300:ARG:O	2.05	0.57
1:a:381:PRO:HA	1:a:405:THR:CG2	2.35	0.57
1:a:452:ARG:HG3	1:a:452:ARG:NH1	2.17	0.57
1:c:16:ILE:HA	1:c:34:THR:OG1	2.03	0.57
1:c:213:LEU:HD13	1:c:214:ASP:H	1.68	0.57
1:c:502:ALA:HB3	1:c:510:ALA:HB3	1.87	0.57
1:d:43:VAL:HG12	1:d:45:PHE:O	2.04	0.57
1:d:227:LEU:HD13	1:d:229:LEU:HD21	1.87	0.57
1:e:693:ILE:HD12	1:e:696:GLN:NE2	2.19	0.57
1:h:70:GLN:HE21	1:h:104:VAL:HG12	1.69	0.57
1:i:220:ILE:CD1	1:i:251:VAL:HG13	2.34	0.57
1:i:284:ILE:CD1	1:i:302:VAL:HG22	2.35	0.57
1:j:127:LEU:HD12	1:k:64:PRO:HD3	1.87	0.57
1:j:204:TYR:O	1:j:206:PRO:HD3	2.04	0.57
1:j:481:VAL:O	1:j:481:VAL:HG13	2.04	0.57
1:k:239:ARG:NH2	1:k:257:GLU:HG2	2.20	0.57
1:k:252:THR:O	1:k:254:GLN:N	2.37	0.57
1:k:400:ALA:HB2	1:k:491:PRO:HD3	1.86	0.57
1:m:517:LEU:H	1:m:517:LEU:HD12	1.69	0.57
1:D:60:ILE:HD11	1:D:95:ASP:C	2.29	0.56
1:D:276:LEU:N	1:D:280:HIS:HB2	2.20	0.56
1:E:45:PHE:HB3	1:E:47:PRO:HD2	1.85	0.56
1:K:123:LEU:HG	1:K:143:TRP:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:67:ARG:HH21	1:M:107:LYS:HA	1.69	0.56
1:M:121:LEU:HB2	1:M:145:PHE:HB3	1.86	0.56
1:O:425:GLU:CD	1:O:425:GLU:H	2.12	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:18:VAL:CG1	1:W:48:VAL:HG22	2.26	0.56
1:W:338:GLN:NE2	1:X:279:ARG:HD3	2.20	0.56
1:W:597:ARG:HG3	1:W:600:ARG:NH2	2.20	0.56
1:X:46:ALA:N	1:X:47:PRO:HD3	2.20	0.56
1:X:182:CYS:SG	1:X:208:VAL:HG23	2.45	0.56
1:X:496:THR:O	1:X:496:THR:CG2	2.53	0.56
1:Y:387:GLY:HA3	1:Y:402:ILE:HG22	1.87	0.56
1:Y:755:THR:HG21	1:Z:761:ARG:HG2	1.86	0.56
1:Z:544:ASN:HB2	1:Z:637:SER:OG	2.05	0.56
1:a:542:ALA:HB3	1:a:639:ASP:HB2	1.87	0.56
1:a:771:ILE:HA	1:a:774:ARG:HH11	1.70	0.56
1:b:332:LEU:CD2	1:b:358:LEU:HD11	2.35	0.56
1:b:759:LEU:HD11	1:c:764:LYS:HB3	1.87	0.56
1:c:199:ARG:HH21	1:c:258:ALA:HB3	1.69	0.56
1:c:505:PRO:HD2	1:c:507:ARG:HH12	1.70	0.56
1:c:687:ARG:HG2	1:c:691:GLN:HE21	1.70	0.56
1:c:697:SER:HB3	1:d:706:LEU:HB2	1.87	0.56
1:d:327:SER:HB2	1:d:331:GLY:CA	2.35	0.56
1:g:43:VAL:HG12	1:g:45:PHE:O	2.05	0.56
1:i:337:LEU:HD22	1:i:357:TRP:CZ3	2.39	0.56
1:i:485:GLU:HG2	1:i:486:LEU:N	2.19	0.56
1:j:128:ASP:HB2	1:j:155:LYS:HB3	1.87	0.56
1:k:229:LEU:HD23	1:k:266:GLU:HA	1.87	0.56
1:k:328:GLU:OE1	1:k:328:GLU:CA	2.41	0.56
1:l:18:VAL:HG21	1:l:33:LYS:HE3	1.86	0.56
1:l:72:SER:HB3	1:l:84:ARG:HH21	1.69	0.56
1:l:387:GLY:HA3	1:l:402:ILE:HG22	1.87	0.56
1:A:338:GLN:HB3	1:A:339:PRO:HD3	1.87	0.56
1:A:759:LEU:HD22	1:B:768:MET:HG3	1.87	0.56
1:B:83:LEU:HD23	1:B:83:LEU:H	1.70	0.56
1:B:151:TYR:HD2	1:B:152:ILE:HD13	1.70	0.56
1:B:320:ILE:HD12	1:B:320:ILE:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:LEU:HD13	1:C:364:GLU:H	1.70	0.56
1:D:90:ILE:HD13	1:D:90:ILE:H	1.70	0.56
1:D:120:ALA:O	1:D:161:GLU:HA	2.04	0.56
1:D:221:LEU:CD2	1:D:256:THR:HB	2.31	0.56
1:D:452:ARG:HG3	1:D:452:ARG:NH1	2.19	0.56
1:D:469:GLN:HB3	1:D:496:THR:CG2	2.35	0.56
1:D:802:LEU:HD12	1:D:806:THR:CG2	2.34	0.56
1:G:221:LEU:HD22	1:G:256:THR:CG2	2.35	0.56
1:G:236:ARG:HB3	1:G:236:ARG:NH1	2.19	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:I:106:GLU:O	1:I:107:LYS:HD2	2.05	0.56
1:I:419:LEU:HD12	1:I:494:GLN:HE21	1.70	0.56
1:I:766:ARG:HG2	1:J:772:TYR:CD1	2.40	0.56
1:J:734:ARG:HH21	1:J:735:ILE:CD1	2.18	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:299:LYS:NZ	1:M:317:GLU:OE2	2.38	0.56
1:N:84:ARG:HH22	1:N:101:PRO:HD2	1.69	0.56
1:O:697:SER:HB3	1:P:706:LEU:HB2	1.87	0.56
1:P:130:GLU:HA	1:P:137:VAL:HG13	1.87	0.56
1:Q:152:ILE:HD11	1:Q:156:GLU:OE2	2.06	0.56
1:R:51:VAL:O	1:R:53:VAL:HG23	2.05	0.56
1:R:526:VAL:HG22	1:R:540:GLN:HG2	1.87	0.56
1:S:354:GLY:C	1:T:328:GLU:HG3	2.30	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:a:182:CYS:HB2	1:a:208:VAL:HB	1.87	0.56
1:b:46:ALA:N	1:b:47:PRO:CD	2.67	0.56
1:d:152:ILE:CD1	1:d:152:ILE:N	2.67	0.56
1:e:154:GLN:HG3	1:e:155:LYS:HG3	1.86	0.56
1:e:564:VAL:HG22	1:e:631:ASN:ND2	2.19	0.56
1:h:60:ILE:CG1	1:h:93:ALA:HA	2.35	0.56
1:h:236:ARG:NH1	1:h:236:ARG:HB3	2.20	0.56
1:i:123:LEU:HD11	1:i:143:TRP:CD1	2.40	0.56
1:l:106:GLU:O	1:l:107:LYS:HD2	2.05	0.56
1:m:65:VAL:HA	1:m:110:THR:HA	1.87	0.56
1:m:122:HIS:O	1:m:159:VAL:N	2.33	0.56
1:A:459:SER:CB	1:A:488:THR:HG22	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:654:LEU:HD13	1:B:662:ILE:HD13	1.87	0.56
1:D:243:HIS:HE2	1:D:249:TRP:CG	2.22	0.56
1:D:523:PHE:CE1	1:D:568:VAL:HG12	2.41	0.56
1:E:10:ILE:HG22	1:E:12:PRO:HD2	1.87	0.56
1:E:109:ILE:HD12	1:E:153:PRO:CG	2.34	0.56
1:E:332:LEU:HD21	1:E:407:MET:HB3	1.87	0.56
1:F:215:LEU:HB3	1:F:259:HIS:NE2	2.20	0.56
1:F:474:ARG:HG3	1:F:492:GLU:HB2	1.87	0.56
1:F:697:SER:HB3	1:G:706:LEU:HB2	1.87	0.56
1:G:755:THR:HG21	1:H:761:ARG:HG2	1.88	0.56
1:H:159:VAL:HG12	1:H:160:VAL:HG22	1.86	0.56
1:H:533:ASP:CG	1:H:588:PHE:H	2.13	0.56
1:H:605:GLY:O	1:H:623:ARG:HB2	2.05	0.56
1:J:183:PHE:CA	1:J:190:ARG:HD3	2.33	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:68:ASP:CB	1:K:90:ILE:HG22	2.34	0.56
1:K:564:VAL:HG21	1:K:631:ASN:ND2	2.20	0.56
1:K:587:THR:HG23	1:K:590:ASP:CB	2.34	0.56
1:L:452:ARG:HH22	1:L:458:VAL:HG22	1.71	0.56
1:L:564:VAL:CG2	1:L:631:ASN:ND2	2.67	0.56
1:M:14:HIS:CB	1:M:56:ARG:CB	2.79	0.56
1:M:73:VAL:N	1:M:84:ARG:HB2	2.20	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:N	1:N:337:LEU:CD2	2.68	0.56
1:O:67:ARG:HH21	1:O:107:LYS:HA	1.70	0.56
1:O:125:ALA:HB1	1:O:128:ASP:HB3	1.85	0.56
1:P:36:ILE:O	1:P:37:ARG:HG3	2.06	0.56
1:P:196:TRP:HA	1:P:196:TRP:CE3	2.40	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: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:S:220:ILE:CD1	1:S:251:VAL:HG13	2.35	0.56
1:T:182:CYS:O	1:T:190:ARG:HB2	2.05	0.56
1:V:176:LEU:HD13	1:V:209:PHE:CD1	2.36	0.56
1:V:205:LEU:HD22	1:V:211:GLU:HB2	1.87	0.56
1:W:4:GLU:OE2	1:W:6:ALA:HB2	2.04	0.56
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:759:LEU:HD21	1:a:765:VAL:HG22	1.87	0.56
1:a:36:ILE:HG21	1:a:99:LEU:H	1.70	0.56
1:b:113:GLN:O	1:b:114:VAL:HG13	2.06	0.56
1:b:394:LYS:HA	1:c:329:GLN:CD	2.30	0.56
1:b:794:LYS:O	1:b:798:MET:HG2	2.05	0.56
1:c:129:PHE:O	1:c:130:GLU:HG2	2.04	0.56
1:d:68:ASP:O	1:d:106:GLU:HB2	2.05	0.56
1:d:284:ILE:HD13	1:d:284:ILE:N	2.20	0.56
1:e:243:HIS:HE2	1:e:249:TRP:CG	2.22	0.56
1:e:340:LEU:HG	1:e:353:ALA:HB2	1.86	0.56
1:e:523:PHE:CD1	1:e:568:VAL:HG12	2.39	0.56
1:e:653:ALA:HB3	1:f:662:ILE:CD1	2.33	0.56
1:f:529:ILE:HD13	1:f:583:VAL:HG11	1.86	0.56
1:g:337:LEU:HD22	1:g:357:TRP:HZ3	1.69	0.56
1:h:354:GLY:C	1:i:328:GLU:HG3	2.31	0.56
1:h:543:TYR:CE2	1:h:575:ILE:HG21	2.40	0.56
1:h:564:VAL:CG2	1:h:631:ASN:ND2	2.68	0.56
1:j:100:TYR:HB3	1:j:101:PRO:CD	2.34	0.56
1:k:7:ILE:HD12	1:k:7:ILE:N	2.20	0.56
1:k:60:ILE:HG12	1:k:92:LEU:O	2.04	0.56
1:l:549:LEU:HD12	1:l:552:ARG:HA	1.87	0.56
1:m:529:ILE:HD12	1:m:537:LEU:HB2	1.87	0.56
1:B:3:THR:H	1:B:50:MET:HE1	1.69	0.56
1:B:115:VAL:HB	1:B:148:PRO:O	2.05	0.56
1:B:155:LYS:H	1:B:155:LYS:HZ2	1.54	0.56
1:B:227:LEU:HB2	1:B:251:VAL:HG12	1.88	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:E:180:LYS:HD2	1:E:208:VAL:HG12	1.88	0.56
1:F:36:ILE:O	1:F:37:ARG:HG3	2.04	0.56
1:G:109:ILE:HD11	1:G:153:PRO:HB2	1.87	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:I:452:ARG:HG3	1:I:452:ARG:NH1	2.21	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:Q:234:ASN:N	1:Q:234:ASN:HD22	2.01	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:65:VAL:HA	1:S:110:THR:HA	1.87	0.56
1:S:469:GLN:HB3	1:S:496:THR:CG2	2.31	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:54:PRO:CB	1:X:55:PRO:HD3	2.31	0.56
1:X:109:ILE:CD1	1:X:153:PRO:HG2	2.34	0.56
1:Y:256:THR:HG23	1:Y:256:THR:O	2.05	0.56
1:Z:36:ILE:HG21	1:Z:99:LEU:HD13	1.86	0.56
1:Z:339:PRO:HD2	1:Z:370:LYS:HB3	1.88	0.56
1:a:100:TYR:HB3	1:a:101:PRO:HD2	1.88	0.56
1:a:122:HIS:CG	1:a:159:VAL:HB	2.41	0.56
1:b:330:GLN:HA	1:b:330:GLN:OE1	2.04	0.56
1:e:697:SER:HA	1:f:706:LEU:HD23	1.86	0.56
1:g:14:HIS:CB	1:g:56:ARG:CB	2.83	0.56
1:g:573:LYS:HE3	1:h:522:PHE:CZ	2.41	0.56
1:h:171:ASN:O	1:h:216:VAL:HA	2.06	0.56
1:i:8:ILE:HA	1:i:40:ASN:HD22	1.71	0.56
1:i:151:TYR:HD2	1:i:152:ILE:HD13	1.69	0.56
1:i:418:GLU:OE2	1:i:452:ARG:NH1	2.38	0.56
1:j:3:THR:HG22	1:j:50:MET:HE2	1.87	0.56
1:l:327:SER:H	1:l:331:GLY:HA3	1.70	0.56
1:A:501:SER:HB3	1:A:508:PRO:HA	1.88	0.56
1:A:640:VAL:O	1:m:580:ARG:HD2	2.06	0.56
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:485:GLU:HG2	1:C:486:LEU:N	2.20	0.56
1:E:183:PHE:HE2	1:E:188:LYS:O	1.87	0.56
1:F:327:SER:CA	1:F:331:GLY:HA3	2.35	0.56
1:F:606:PHE:HA	1:F:622:ALA:HA	1.87	0.56
1:G:14:HIS:HD1	1:G:36:ILE:CG2	2.18	0.56
1:G:36:ILE:HD13	1:G:36:ILE:C	2.28	0.56
1:G:40:ASN:HB3	1:G:42:ARG:HH11	1.70	0.56
1:G:573:LYS:HE3	1:H:522:PHE:CZ	2.40	0.56
1:H:654:LEU:HD13	1:I:662:ILE:HD13	1.88	0.56
1:I:601:MET:HG3	1:I:622:ALA:HB2	1.88	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Q:72:SER:HA	1:Q:84:ARG:HG3	1.87	0.56
1:Q:462:VAL:HG22	1:Q:468:VAL:HG23	1.88	0.56
1:R:337:LEU:HD11	1:R:351:HIS:CB	2.34	0.56
1:U:19:LEU:HA	1:U:32:PRO:CB	2.36	0.56
1:U:174:LEU:HB2	1:U:198:VAL:HB	1.86	0.56
1:U:396:GLY:CA	1:V:405:THR:HG23	2.36	0.56
1:U:527:ILE:H	1:U:527:ILE:CD1	2.13	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:121:LEU:HB2	1:a:145:PHE:HB3	1.88	0.56
1:a:221:LEU:HD22	1:a:256:THR:HG21	1.85	0.56
1:a:288:MET:HE1	1:a:312:PRO:HG2	1.87	0.56
1:a:517:LEU:O	1:a:545:TRP:HH2	1.89	0.56
1:d:5:GLU:OE1	1:d:43:VAL:HG11	2.05	0.56
1:d:472:ASP:HA	1:d:493:GLU:CB	2.36	0.56
1:e:171:ASN:O	1:e:216:VAL:HG12	2.04	0.56
1:e:175:ARG:HG3	1:e:215:LEU:HD23	1.88	0.56
1:f:192:THR:HG23	1:g:202:GLY:HA3	1.86	0.56
1:g:221:LEU:HA	1:g:253:VAL:HG13	1.88	0.56
1:g:387:GLY:HA3	1:g:402:ILE:HG22	1.87	0.56
1:h:54:PRO:CB	1:h:55:PRO:HD3	2.23	0.56
1:h:100:TYR:HB3	1:h:101:PRO:CD	2.35	0.56
1:h:159:VAL:HG12	1:h:160:VAL:HG22	1.86	0.56
1:h:165:ALA:HB3	1:h:174:LEU:HD11	1.88	0.56
1:h:658:VAL:O	1:h:662:ILE:HG23	2.05	0.56
1:h:745:LYS:HE2	1:i:753:ILE:HD12	1.88	0.56
1:k:30:VAL:HG22	1:k:74:LEU:HD11	1.88	0.56
1:k:65:VAL:HG12	1:k:110:THR:HG22	1.86	0.56
1:k:284:ILE:HD12	1:k:287:PRO:HB3	1.87	0.56
1:k:398:VAL:N	1:l:384:GLN:OE1	2.35	0.56
1:A:123:LEU:HG	1:A:143:TRP:HB2	1.87	0.56
1:D:719:THR:HG22	1:E:728:SER:HA	1.88	0.56
1:G:63:ASN:N	1:G:64:PRO:HD2	2.21	0.56
1:G:123:LEU:HD11	1:G:143:TRP:HB2	1.88	0.56
1:I:122:HIS:CG	1:I:159:VAL:HB	2.41	0.56
1:I:415:TRP:CZ3	1:I:417:LYS:HB3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:568:VAL:HG23	1:I:569:GLY:N	2.20	0.56
1:J:526:VAL:HG22	1:J:540:GLN:HG2	1.87	0.56
1:K:70:GLN:CB	1:K:104:VAL:HG12	2.35	0.56
1:K:121:LEU:O	1:K:144:LEU:HA	2.06	0.56
1:M:330:GLN:HB3	1:M:379:ALA:HB3	1.87	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:5:GLU:OE1	1:Q:43:VAL:HG11	2.06	0.56
1:Q:224:LYS:O	1:Q:272:PRO:HD3	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:HH11	1:U:399:ARG:HG2	1.70	0.56
1:V:115:VAL:O	1:V:118:ASN:HB3	2.04	0.56
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:W:426:LEU:C	1:W:428:ASN:H	2.14	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:182:CYS:O	1:a:190:ARG:HB2	2.06	0.56
1:b:18:VAL:CG1	1:b:48:VAL:HG22	2.22	0.56
1:b:30:VAL:HG22	1:b:74:LEU:HG	1.88	0.56
1:c:36:ILE:O	1:c:36:ILE:HG13	2.04	0.56
1:d:22:ASN:ND2	1:e:39:ASP:HB3	2.21	0.56
1:d:571:ALA:O	1:d:575:ILE:HG12	2.04	0.56
1:g:165:ALA:HB1	1:g:174:LEU:HD11	1.87	0.56
1:g:171:ASN:O	1:g:216:VAL:HA	2.04	0.56
1:h:18:VAL:CG1	1:h:48:VAL:HG22	2.26	0.56
1:i:311:GLN:N	1:i:314:GLU:HG3	2.21	0.56
1:k:501:SER:CB	1:k:507:ARG:O	2.53	0.56
1:k:744:ALA:HA	1:k:747:LYS:HB2	1.88	0.56
1:l:171:ASN:O	1:l:216:VAL:HA	2.05	0.56
1:l:623:ARG:CG	1:l:624:ASP:H	2.19	0.56
1:m:395:THR:HG21	1:m:397:LYS:HE2	1.86	0.56
1:m:606:PHE:HB2	1:m:622:ALA:HA	1.88	0.56
1:A:36:ILE:O	1:A:37:ARG:HG3	2.04	0.56
1:A:338:GLN:HB2	1:A:339:PRO:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:ARG:NH1	1:A:408:LEU:O	2.38	0.56
1:C:227:LEU:CB	1:C:251:VAL:HG12	2.35	0.56
1:C:729:ARG:HB2	1:C:729:ARG:CZ	2.36	0.56
1:D:115:VAL:N	1:D:118:ASN:HD22	2.03	0.56
1:E:283:VAL:HG22	1:E:301:VAL:HG12	1.87	0.56
1:E:587:THR:HG23	1:E:590:ASP:CB	2.36	0.56
1:F:2:ALA:HB3	1:F:46:ALA:O	2.06	0.56
1:F:286:ASP:N	1:F:287:PRO:HD3	2.21	0.56
1:H:77:ILE:HG13	1:H:80:GLN:N	2.15	0.56
1:H:330:GLN:CG	1:H:379:ALA:HB3	2.36	0.56
1:J:217:ASP:HB2	1:J:258:ALA:HA	1.88	0.56
1:K:760:GLU:HA	1:K:760:GLU:OE1	2.05	0.56
1:L:221:LEU:HD22	1:L:256:THR:CB	2.35	0.56
1:M:138:MET:HE1	1:N:148:PRO:HB3	1.86	0.56
1:M:408:LEU:H	1:M:408:LEU:HD12	1.71	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:U:517:LEU:H	1:U:517:LEU:HD12	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:474:ARG:HG3	1:a:492:GLU:HB2	1.88	0.56
1:b:2:ALA:HB3	1:b:46:ALA:O	2.05	0.56
1:b:67:ARG:NE	1:b:108:ASP:HB3	2.19	0.56
1:b:452:ARG:NH1	1:b:452:ARG:HG3	2.21	0.56
1:b:587:THR:HG23	1:b:590:ASP:CB	2.36	0.56
1:c:220:ILE:CD1	1:c:251:VAL:HG13	2.36	0.56
1:e:281:TYR:CE1	1:e:321:GLN:HB2	2.40	0.56
1:e:543:TYR:CE2	1:e:575:ILE:HG21	2.41	0.56
1:f:276:LEU:HD13	1:f:278:PRO:HD2	1.87	0.56
1:f:402:ILE:O	1:f:402:ILE:HD12	2.06	0.56
1:f:505:PRO:O	1:f:506:LYS:HB2	2.06	0.56
1:h:235:PHE:CZ	1:h:264:TYR:CE1	2.94	0.56
1:j:124:LYS:HG2	1:j:157:VAL:O	2.06	0.56
1:j:481:VAL:HG11	1:j:487:VAL:CG1	2.36	0.56
1:j:796:LYS:O	1:j:799:THR:HG22	2.04	0.56
1:k:3:THR:HG22	1:k:50:MET:CE	2.36	0.56
1:k:109:ILE:HD12	1:k:153:PRO:HB2	1.86	0.56
1:k:799:THR:HG21	1:l:801:ALA:HB1	1.88	0.56
1:m:8:ILE:HA	1:m:40:ASN:HD22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:TYR:CZ	1:A:457:VAL:HA	2.41	0.56
1:C:261:PRO:HD2	1:C:264:TYR:HB2	1.88	0.56
1:D:2:ALA:HB3	1:D:46:ALA:O	2.06	0.56
1:E:354:GLY:C	1:F:328:GLU:HG3	2.31	0.56
1:E:398:VAL:HB	1:F:384:GLN:HE22	1.70	0.56
1:F:36:ILE:HD12	1:F:98:PRO:HB3	1.88	0.56
1:H:67:ARG:HG2	1:H:108:ASP:HB3	1.86	0.56
1:H:228:HIS:HB3	1:H:267:VAL:HB	1.88	0.56
1:I:165:ALA:HB3	1:I:174:LEU:HD11	1.87	0.56
1:J:194:GLU:HG2	1:J:195:GLU:H	1.71	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:332:LEU:HD23	1:L:358:LEU:HD11	1.88	0.56
1:L:481:VAL:O	1:L:481:VAL:HG13	2.05	0.56
1:N:382:LEU:HB2	1:N:404:SER:O	2.05	0.56
1:O:60:ILE:HD13	1:O:93:ALA:HA	1.87	0.56
1:O:337:LEU:HD22	1:O:357:TRP:HZ3	1.67	0.56
1:P:228:HIS:HE2	1:P:312:PRO:HB3	1.71	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:90:ILE:O	1:S:90:ILE:HD12	2.05	0.56
1:S:795:PHE:O	1:S:799:THR:HG22	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:NH1	1:U:236:ARG:HB3	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:70:GLN:HA	1:V:88:GLN:HG3	1.87	0.56
1:V:180:LYS:C	1:V:182:CYS:N	2.63	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
1:c:24:ASN:ND2	1:c:30:VAL:HB	2.15	0.56
1:c:533:ASP:OD1	1:c:587:THR:HA	2.06	0.56
1:c:623:ARG:CG	1:c:624:ASP:H	2.18	0.56
1:d:551:ASN:HB3	1:d:554:ASP:HB3	1.88	0.56
1:e:327:SER:CB	1:e:331:GLY:HA3	2.34	0.56
1:e:337:LEU:HD22	1:e:357:TRP:CZ3	2.40	0.56
1:e:799:THR:HG21	1:f:801:ALA:HB1	1.87	0.56
1:g:243:HIS:HE2	1:g:249:TRP:CG	2.24	0.56
1:g:252:THR:O	1:g:254:GLN:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:296:LEU:N	1:g:296:LEU:HD22	2.21	0.56
1:g:591:PHE:O	1:g:595:SER:N	2.39	0.56
1:i:311:GLN:HB3	1:i:312:PRO:CD	2.35	0.56
1:i:327:SER:H	1:i:331:GLY:HA3	1.70	0.56
1:i:697:SER:HB3	1:j:706:LEU:HB2	1.88	0.56
1:l:65:VAL:HA	1:l:110:THR:HA	1.87	0.56
1:l:663:GLU:O	1:l:666:THR:HG22	2.06	0.56
1:m:511:ARG:NH2	1:m:517:LEU:HD11	2.19	0.56
1:m:650:THR:O	1:m:654:LEU:HD13	2.06	0.56
1:C:239:ARG:NH2	1:C:257:GLU:HG2	2.20	0.56
1:E:273:ILE:HD13	1:E:310:LEU:HD21	1.87	0.56
1:F:8:ILE:HG22	1:F:40:ASN:ND2	2.20	0.56
1:F:204:TYR:CE2	1:F:206:PRO:HG3	2.41	0.56
1:H:268:LEU:HD13	1:H:269:GLY:H	1.71	0.56
1:H:697:SER:HB3	1:I:706:LEU:HB2	1.88	0.56
1:K:243:HIS:HE2	1:K:249:TRP:CG	2.23	0.56
1:K:363:LEU:HD13	1:K:364:GLU:H	1.69	0.56
1:K:697:SER:HA	1:L:706:LEU:HD23	1.88	0.56
1:L:337:LEU:HD23	1:L:337:LEU:N	2.21	0.56
1:M:18:VAL:N	1:M:48:VAL:HG13	2.18	0.56
1:N:394:LYS:CG	1:O:329:GLN:HG3	2.23	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:P:745:LYS:HG3	1:Q:753:ILE:HD13	1.86	0.56
1:Q:320:ILE:N	1:Q:320:ILE:HD13	2.21	0.56
1:R:251:VAL:HG22	1:R:254:GLN:NE2	2.21	0.56
1:T:176:LEU:HB2	1:T:196:TRP:HB2	1.88	0.56
1:T:182:CYS:SG	1:T:208:VAL:HG21	2.46	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
1:Z:167:VAL:HG22	1:Z:201:VAL:HA	1.86	0.56
1:a:320:ILE:HD12	1:a:320:ILE:O	2.06	0.56
1:b:244:ARG:O	1:b:247:GLU:HB2	2.06	0.56
1:b:327:SER:CA	1:b:331:GLY:HA3	2.35	0.56
1:d:14:HIS:HB3	1:d:56:ARG:CB	2.32	0.56
1:d:236:ARG:NH1	1:d:236:ARG:HB3	2.20	0.56
1:d:471:TYR:HD1	1:d:478:ALA:HB2	1.70	0.56
1:e:24:ASN:ND2	1:e:30:VAL:HB	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:114:VAL:HG12	1:e:118:ASN:HD21	1.71	0.56
1:e:340:LEU:HD23	1:e:353:ALA:H	1.71	0.56
1:e:518:LEU:HA	1:e:547:PHE:HD1	1.71	0.56
1:f:230:ARG:HG2	1:f:248:GLU:HG2	1.87	0.56
1:f:296:LEU:HD22	1:f:296:LEU:N	2.21	0.56
1:g:261:PRO:HD2	1:g:264:TYR:HB2	1.88	0.56
1:h:144:LEU:HD12	1:h:144:LEU:H	1.70	0.56
1:h:469:GLN:HB3	1:h:496:THR:CG2	2.36	0.56
1:i:221:LEU:CD2	1:i:256:THR:CG2	2.83	0.56
1:i:382:LEU:N	1:i:405:THR:HG22	2.20	0.56
1:k:159:VAL:HG12	1:k:160:VAL:HG22	1.87	0.56
1:k:327:SER:N	1:k:331:GLY:HA3	2.21	0.56
1:k:495:PHE:CG	1:k:514:LEU:HD11	2.40	0.56
1:l:654:LEU:HD13	1:m:662:ILE:CD1	2.32	0.56
1:m:16:ILE:HA	1:m:34:THR:OG1	2.04	0.56
1:m:18:VAL:H	1:m:48:VAL:CG1	2.13	0.56
1:m:452:ARG:HG3	1:m:452:ARG:HH11	1.70	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:230:ARG:HG2	1:D:248:GLU:HG2	1.88	0.56
1:E:120:ALA:O	1:E:161:GLU:HA	2.05	0.56
1:H:54:PRO:HB2	1:H:55:PRO:CD	2.31	0.56
1:I:326:LEU:HD13	1:I:360:ARG:HA	1.87	0.56
1:J:408:LEU:H	1:J:408:LEU:HD12	1.70	0.56
1:L:184:ASP:HB3	1:L:187:GLY:O	2.05	0.56
1:L:759:LEU:HD22	1:M:768:MET:HG3	1.88	0.56
1:M:51:VAL:O	1:M:53:VAL:HG23	2.06	0.56
1:M:180:LYS:O	1:M:182:CYS:N	2.39	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:P:573:LYS:HE3	1:Q:522:PHE:CZ	2.41	0.56
1:Q:14:HIS:CB	1:Q:56:ARG:CB	2.83	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:398:VAL:HB	1:V:384:GLN:HE22	1.71	0.56
1:U:470:VAL:HB	1:U:479:ARG:HD2	1.88	0.56
1:X:522:PHE:C	1:X:522:PHE:HD2	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:4:GLU:OE2	1:a:6:ALA:HB2	2.05	0.56
1:a:10:ILE:HD12	1:a:10:ILE:N	2.21	0.56
1:b:5:GLU:HG2	1:b:43:VAL:CG2	2.36	0.56
1:c:327:SER:HB2	1:c:331:GLY:CA	2.36	0.56
1:d:235:PHE:CZ	1:d:264:TYR:CE1	2.94	0.56
1:e:106:GLU:O	1:e:107:LYS:HD2	2.06	0.56
1:e:206:PRO:HB2	1:e:209:PHE:CD2	2.41	0.56
1:h:113:GLN:OE1	1:h:149:GLY:HA2	2.05	0.56
1:h:662:ILE:O	1:h:666:THR:HB	2.06	0.56
1:i:46:ALA:N	1:i:47:PRO:HD3	2.21	0.56
1:i:152:ILE:CD1	1:i:152:ILE:H	2.19	0.56
1:k:122:HIS:O	1:k:159:VAL:N	2.33	0.56
1:k:402:ILE:HD13	1:k:402:ILE:H	1.70	0.56
1:k:421:SER:O	1:k:423:VAL:N	2.39	0.56
1:m:54:PRO:HB2	1:m:55:PRO:CD	2.23	0.56
1:m:234:ASN:ND2	1:m:245:THR:H	2.04	0.56
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:D:194:GLU:HG2	1:D:195:GLU:H	1.70	0.55
1:D:221:LEU:HD13	1:D:255:ASP:O	2.06	0.55
1:E:220:ILE:HD12	1:E:220:ILE:O	2.06	0.55
1:F:5:GLU:O	1:F:41:GLU:O	2.24	0.55
1:F:123:LEU:HD11	1:F:143:TRP:HB2	1.88	0.55
1:G:10:ILE:HD12	1:G:10:ILE:N	2.17	0.55
1:G:14:HIS:NE2	1:G:16:ILE:CD1	2.69	0.55
1:G:459:SER:CB	1:G:488:THR:HG22	2.34	0.55
1:H:330:GLN:HG3	1:H:379:ALA:HB3	1.87	0.55
1:I:229:LEU:HD23	1:I:266:GLU:HA	1.88	0.55
1:I:235:PHE:CE1	1:I:264:TYR:CE1	2.95	0.55
1:J:42:ARG:CA	1:J:42:ARG:HE	2.19	0.55
1:J:224:LYS:HA	1:J:272:PRO:HG3	1.87	0.55
1:K:8:ILE:HA	1:K:40:ASN:HD22	1.71	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:29:GLU:O	1:R:84:ARG:NH1	2.36	0.55
1:R:43:VAL:HG12	1:R:45:PHE:O	2.06	0.55
1:R:60:ILE:H	1:R:60:ILE:CD1	2.18	0.55
1:R:60:ILE:HB	1:R:93:ALA:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:100:TYR:HB3	1:S:101:PRO:HD2	1.88	0.55
1:S:175:ARG:HH21	1:S:263:VAL:HG13	1.71	0.55
1:S:251:VAL:HG23	1:S:254:GLN:HE21	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: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:398:VAL:HG11	1:a:415:TRP:CD2	2.40	0.55
1:c:481:VAL:HG11	1:c:487:VAL:HG13	1.87	0.55
1:c:600:ARG:O	1:c:604:PHE:HD1	1.89	0.55
1:c:655:GLN:O	1:c:658:VAL:HG12	2.06	0.55
1:d:19:LEU:HA	1:d:32:PRO:HB3	1.88	0.55
1:d:221:LEU:HD22	1:d:256:THR:CB	2.36	0.55
1:d:529:ILE:HD11	1:d:583:VAL:HG11	1.88	0.55
1:d:760:GLU:O	1:d:764:LYS:HG2	2.07	0.55
1:e:3:THR:CG2	1:e:50:MET:CE	2.83	0.55
1:e:244:ARG:O	1:e:247:GLU:HB2	2.05	0.55
1:g:2:ALA:HB3	1:g:46:ALA:O	2.06	0.55
1:g:40:ASN:HB3	1:g:42:ARG:HH11	1.71	0.55
1:g:90:ILE:HD12	1:g:154:GLN:HB2	1.88	0.55
1:g:273:ILE:HD11	1:g:308:PHE:HD2	1.71	0.55
1:h:587:THR:HG23	1:h:590:ASP:HB3	1.87	0.55
1:i:221:LEU:HD21	1:i:256:THR:CG2	2.36	0.55
1:j:283:VAL:HG22	1:j:301:VAL:HG12	1.88	0.55
1:k:338:GLN:HB3	1:k:339:PRO:CD	2.34	0.55
1:l:56:ARG:HD2	1:l:99:LEU:CD2	2.36	0.55
1:l:408:LEU:HD21	1:l:414:LEU:CD1	2.37	0.55
1:m:18:VAL:N	1:m:48:VAL:HG13	2.12	0.55
1:A:194:GLU:HG2	1:A:195:GLU:N	2.21	0.55
1:A:251:VAL:HG23	1:A:254:GLN:NE2	2.22	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:D:697:SER:HA	1:E:706:LEU:HD23	1.88	0.55
1:E:472:ASP:HA	1:E:493:GLU:CB	2.36	0.55
1:G:500:LEU:HA	1:G:566:ASP:OD1	2.07	0.55
1:G:522:PHE:CD2	1:G:522:PHE:C	2.83	0.55
1:G:551:ASN:HB3	1:G:554:ASP:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:221:LEU:HD21	1:J:256:THR:CG2	2.34	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:M:130:GLU:H	1:M:137:VAL:HG22	1.71	0.55
1:M:734:ARG:HH21	1:M:735:ILE:CD1	2.19	0.55
1:N:291:ASP:C	1:N:293:LYS:H	2.14	0.55
1:O:340:LEU:HD23	1:O:352:GLN:HA	1.88	0.55
1:Q:19:LEU:HA	1:Q:32:PRO:HB2	1.86	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:S:5:GLU:HG2	1:S:43:VAL:CG2	2.37	0.55
1:S:382:LEU:H	1:S:405:THR:HG22	1.69	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:c:10:ILE:HD12	1:c:10:ILE:N	2.21	0.55
1:d:204:TYR:O	1:d:206:PRO:HD3	2.06	0.55
1:d:529:ILE:C	1:d:529:ILE:CD1	2.79	0.55
1:e:60:ILE:HG13	1:e:92:LEU:O	2.06	0.55
1:e:184:ASP:HB3	1:e:187:GLY:O	2.05	0.55
1:f:474:ARG:NH1	1:g:384:GLN:HG2	2.22	0.55
1:j:116:LEU:HB3	1:j:117:PRO:HD3	1.87	0.55
1:l:61:VAL:HG13	1:l:65:VAL:HG23	1.88	0.55
1:m:260:VAL:O	1:m:262:ASP:N	2.40	0.55
1:A:19:LEU:HD23	1:A:32:PRO:HB2	1.89	0.55
1:E:418:GLU:HG2	1:E:423:VAL:HG22	1.88	0.55
1:F:18:VAL:H	1:F:48:VAL:CG1	2.16	0.55
1:F:164:GLN:HB3	1:F:204:TYR:HA	1.88	0.55
1:G:566:ASP:OD2	1:G:569:GLY:HA3	2.05	0.55
1:H:242:LEU:HD23	1:H:242:LEU:H	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:H:687:ARG:HG2	1:H:691:GLN:HE21	1.71	0.55
1:I:459:SER:CB	1:I:488:THR:HG22	2.31	0.55
1:I:600:ARG:O	1:I:604:PHE:HD1	1.90	0.55
1:I:660:LEU:HA	1:I:663:GLU:HB3	1.89	0.55
1:J:268:LEU:HD13	1:J:269:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:217:ASP:OD1	1:K:257:GLU:O	2.25	0.55
1:K:398:VAL:N	1:L:384:GLN:OE1	2.36	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:46:ALA:N	1:W:47:PRO:HD3	2.21	0.55
1:W:226:ALA:HB3	1:W:270:VAL:HG13	1.86	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:109:ILE:HD12	1:a:153:PRO:CB	2.37	0.55
1:a:243:HIS:NE2	1:a:249:TRP:CD2	2.75	0.55
1:b:14:HIS:O	1:b:53:VAL:HB	2.07	0.55
1:b:476:LYS:HE2	1:c:485:GLU:CG	2.28	0.55
1:c:762:VAL:O	1:c:766:ARG:HB2	2.07	0.55
1:d:174:LEU:HB2	1:d:198:VAL:HB	1.88	0.55
1:e:7:ILE:O	1:e:41:GLU:HG3	2.06	0.55
1:e:335:LYS:HG2	1:e:373:VAL:HG13	1.88	0.55
1:i:177:ARG:HB2	1:i:177:ARG:HH11	1.71	0.55
1:i:320:ILE:N	1:i:320:ILE:HD13	2.21	0.55
1:j:755:THR:HG21	1:k:761:ARG:HG2	1.89	0.55
1:l:206:PRO:HB2	1:l:209:PHE:CD2	2.41	0.55
1:m:490:ASP:CG	1:m:491:PRO:HD2	2.31	0.55
1:B:61:VAL:HG13	1:B:65:VAL:HG23	1.89	0.55
1:B:599:ILE:CD1	1:B:599:ILE:H	2.19	0.55
1:C:18:VAL:N	1:C:48:VAL:HG13	2.20	0.55
1:C:337:LEU:HD22	1:C:357:TRP:CZ3	2.39	0.55
1:D:384:GLN:HE21	1:D:384:GLN:N	2.02	0.55
1:F:425:GLU:CD	1:F:425:GLU:H	2.14	0.55
1:H:10:ILE:HD12	1:H:10:ILE:N	2.22	0.55
1:H:18:VAL:H	1:H:48:VAL:CG1	2.18	0.55
1:I:144:LEU:HG	1:I:145:PHE:H	1.71	0.55
1:K:113:GLN:OE1	1:K:150:THR:N	2.40	0.55
1:K:115:VAL:N	1:K:118:ASN:HD22	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:647:ASP:HB3	1:K:650:THR:OG1	2.07	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:16:ILE:HA	1:O:34:THR:OG1	2.06	0.55
1:O:128:ASP:OD1	1:O:131:ASP:HB3	2.06	0.55
1:R:120:ALA:HB2	1:R:164:GLN:HE22	1.71	0.55
1:T:73:VAL:N	1:T:84:ARG:HB2	2.20	0.55
1:T:242:LEU:HD23	1:T:242:LEU:H	1.71	0.55
1:T:421:SER:O	1:T:423:VAL:N	2.39	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:HH11	1:Z:230:ARG:HB3	1.72	0.55
1:Z:276:LEU:O	1:Z:277:GLY:C	2.49	0.55
1:a:90:ILE:N	1:a:90:ILE:HD13	2.21	0.55
1:b:123:LEU:HD11	1:b:143:TRP:HB2	1.88	0.55
1:b:311:GLN:N	1:b:314:GLU:HG3	2.21	0.55
1:d:16:ILE:HA	1:d:34:THR:OG1	2.05	0.55
1:d:64:PRO:HA	1:d:111:PRO:HD2	1.87	0.55
1:e:5:GLU:HA	1:e:7:ILE:HD11	1.87	0.55
1:f:5:GLU:O	1:f:41:GLU:O	2.25	0.55
1:g:394:LYS:HG2	1:h:329:GLN:CG	2.27	0.55
1:g:452:ARG:HH11	1:g:452:ARG:HG3	1.71	0.55
1:h:19:LEU:HA	1:h:32:PRO:CB	2.37	0.55
1:i:354:GLY:O	1:i:356:CYS:N	2.40	0.55
1:k:601:MET:CG	1:k:622:ALA:HB2	2.35	0.55
1:k:697:SER:HA	1:l:706:LEU:HD23	1.89	0.55
1:l:10:ILE:H	1:l:10:ILE:CD1	2.14	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:B:119:THR:HG23	1:B:163:ILE:HG23	1.87	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:90:ILE:HD13	1:C:90:ILE:H	1.71	0.55
1:C:221:LEU:HD22	1:C:256:THR:CG2	2.35	0.55
1:C:230:ARG:HH11	1:C:230:ARG:HB3	1.71	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:D:526:VAL:HG22	1:D:540:GLN:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:8:ILE:HA	1:E:40:ASN:HD22	1.72	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: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:176:LEU:HB2	1:G:196:TRP:HB2	1.89	0.55
1:G:227:LEU:CB	1:G:251:VAL:HG12	2.37	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:L:408:LEU:HD21	1:L:414:LEU:CD1	2.37	0.55
1:M:6:ALA:O	1:M:7:ILE:HD13	2.07	0.55
1:M:36:ILE:HD13	1:M:36:ILE:C	2.31	0.55
1:M:115:VAL:O	1:M:118:ASN:HB3	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:46:ALA:N	1:Q:47:PRO:HD3	2.22	0.55
1:Q:128:ASP:OD1	1:Q:131:ASP:HB3	2.06	0.55
1:Q:758:GLU:O	1:Q:762:VAL:HG23	2.07	0.55
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:239:ARG:NH2	1:a:257:GLU:HG2	2.15	0.55
1:a:398:VAL:HG11	1:a:415:TRP:CE3	2.40	0.55
1:a:795:PHE:O	1:a:799:THR:HG22	2.06	0.55
1:b:115:VAL:O	1:b:118:ASN:HB3	2.07	0.55
1:b:228:HIS:NE2	1:b:312:PRO:HB3	2.22	0.55
1:c:46:ALA:N	1:c:47:PRO:CD	2.70	0.55
1:c:500:LEU:HA	1:c:566:ASP:OD1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:116:LEU:CB	1:d:117:PRO:HD2	2.34	0.55
1:f:183:PHE:HA	1:f:190:ARG:HD3	1.87	0.55
1:h:330:GLN:OE1	1:h:360:ARG:HD3	2.06	0.55
1:h:338:GLN:HB2	1:h:339:PRO:HD3	1.86	0.55
1:j:363:LEU:HD13	1:j:364:GLU:H	1.71	0.55
1:m:90:ILE:HD12	1:m:154:GLN:HG2	1.88	0.55
1:m:255:ASP:CG	1:m:256:THR:H	2.15	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: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:E:64:PRO:HA	1:E:111:PRO:HD2	1.89	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:H:273:ILE:HG21	1:H:316:LEU:HD11	1.87	0.55
1:I:311:GLN:HB3	1:I:312:PRO:CD	2.34	0.55
1:I:573:LYS:HE3	1:J:522:PHE:CZ	2.41	0.55
1:J:529:ILE:HD12	1:J:537:LEU:HB2	1.89	0.55
1:J:533:ASP:OD1	1:J:587:THR:HA	2.06	0.55
1:K:3:THR:HG22	1:K:50:MET:HE2	1.89	0.55
1:K:182:CYS:SG	1:K:208:VAL:HB	2.47	0.55
1:L:152:ILE:HD11	1:L:156:GLU:OE2	2.06	0.55
1:L:294:ASN:HD21	1:L:313:GLY:CA	2.19	0.55
1:M:755:THR:HG21	1:N:761:ARG:HG2	1.88	0.55
1:M:811:ALA:C	1:M:813:ALA:H	2.15	0.55
1:N:115:VAL:HA	1:N:147:GLY:O	2.07	0.55
1:O:164:GLN:CD	1:O:204:TYR:HB3	2.32	0.55
1:O:354:GLY:C	1:P:328:GLU:HG3	2.31	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:HD13	1:R:527:ILE:N	2.19	0.55
1:T:67:ARG:HH21	1:T:107:LYS:CA	2.18	0.55
1:T:391:GLN:HB2	1:T:398:VAL:HG22	1.88	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:Z:398:VAL:N	1:a:384:GLN:OE1	2.37	0.55
1:b:63:ASN:N	1:b:64:PRO:HD2	2.21	0.55
1:c:18:VAL:H	1:c:48:VAL:CG1	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:16:ILE:HB	1:d:51:VAL:HB	1.89	0.55
1:d:175:ARG:HE	1:d:263:VAL:HG22	1.71	0.55
1:d:396:GLY:CA	1:e:405:THR:HG23	2.35	0.55
1:e:3:THR:H	1:e:50:MET:HE1	1.71	0.55
1:e:92:LEU:HB2	1:e:94:GLN:HG2	1.87	0.55
1:f:249:TRP:CD1	1:f:249:TRP:N	2.73	0.55
1:f:294:ASN:HD21	1:f:313:GLY:CA	2.20	0.55
1:g:398:VAL:HG11	1:g:415:TRP:CE3	2.42	0.55
1:h:243:HIS:HE2	1:h:249:TRP:CG	2.25	0.55
1:j:15:TYR:HA	1:j:53:VAL:HB	1.88	0.55
1:k:7:ILE:H	1:k:41:GLU:HG3	1.71	0.55
1:l:239:ARG:HH21	1:l:257:GLU:HG2	1.71	0.55
1:A:623:ARG:CG	1:A:624:ASP:H	2.19	0.55
1:B:251:VAL:HG23	1:B:254:GLN:NE2	2.22	0.55
1:B:599:ILE:H	1:B:599:ILE:HD12	1.72	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:302:VAL:HG21	1:E:308:PHE:CE2	2.41	0.55
1:F:60:ILE:HD11	1:F:95:ASP:O	2.07	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:L:69:THR:HA	1:L:106:GLU:HB3	1.89	0.55
1:M:327:SER:HB2	1:M:331:GLY:HA2	1.85	0.55
1:M:382:LEU:HD13	1:M:387:GLY:HA2	1.88	0.55
1:O:587:THR:HG23	1:O:590:ASP:CB	2.35	0.55
1:P:146:GLU:OE1	1:P:146:GLU:HA	2.05	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
1:S:533:ASP:OD1	1:S:587:THR:HA	2.07	0.55
1:T:2:ALA:HB3	1:T:46:ALA:O	2.07	0.55
1:T:16:ILE:HA	1:T:34:THR:OG1	2.06	0.55
1:T:18:VAL:CG1	1:T:48:VAL:HG22	2.24	0.55
1:T:330:GLN:HG3	1:T:379:ALA:HB3	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:469:GLN:HG3	1:U:480:VAL:HG22	1.88	0.55
1:W:132:LYS:HZ1	1:W:152:ILE:HD12	1.70	0.55
1:X:328:GLU:OE1	1:X:361:GLY:O	2.25	0.55
1:X:803:GLY:C	1:X:805:GLY:H	2.13	0.55
1:Y:579:VAL:CG2	1:Y:599:ILE:HG23	2.37	0.55
1:a:294:ASN:HD21	1:a:313:GLY:CA	2.20	0.55
1:b:243:HIS:NE2	1:b:249:TRP:CE2	2.74	0.55
1:c:221:LEU:HD12	1:c:253:VAL:HG13	1.89	0.55
1:c:328:GLU:HG2	1:c:329:GLN:H	1.71	0.55
1:d:332:LEU:HD21	1:d:407:MET:CB	2.33	0.55
1:e:291:ASP:C	1:e:293:LYS:H	2.15	0.55
1:g:10:ILE:HD12	1:g:10:ILE:N	2.21	0.55
1:g:67:ARG:HH21	1:g:107:LYS:CA	2.12	0.55
1:g:167:VAL:HG22	1:g:201:VAL:HA	1.89	0.55
1:h:3:THR:HG22	1:h:50:MET:HE2	1.87	0.55
1:h:10:ILE:HD12	1:h:10:ILE:N	2.22	0.55
1:i:464:HIS:CD2	1:i:484:PRO:HB3	2.41	0.55
1:i:533:ASP:OD1	1:i:587:THR:HA	2.06	0.55
1:i:660:LEU:HD13	1:i:663:GLU:HG2	1.87	0.55
1:j:10:ILE:HD12	1:j:10:ILE:N	2.17	0.55
1:k:8:ILE:H	1:k:8:ILE:CD1	2.16	0.55
1:l:8:ILE:HD13	1:l:8:ILE:N	2.19	0.55
1:l:221:LEU:HD21	1:l:256:THR:HG21	1.88	0.55
1:m:276:LEU:O	1:m:277:GLY:C	2.50	0.55
1:m:540:GLN:HB2	1:m:642:SER:HB3	1.89	0.55
1:A:122:HIS:HB3	1:A:159:VAL:HB	1.88	0.55
1:A:196:TRP:HA	1:A:196:TRP:HE3	1.71	0.55
1:A:409:THR:O	1:A:410:GLN:C	2.49	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: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:698:GLU:OE2	1:B:698:GLU:HA	2.06	0.55
1:C:46:ALA:N	1:C:47:PRO:HD3	2.22	0.55
1:C:175:ARG:HA	1:C:196:TRP:O	2.07	0.55
1:C:465:ASN:ND2	1:C:520:PRO:HD2	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:G:273:ILE:HG23	1:G:310:LEU:HD11	1.88	0.55
1:I:199:ARG:NH2	1:I:258:ALA:HB3	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:251:VAL:HG23	1:J:254:GLN:HE21	1.71	0.55
1:J:689:GLU:O	1:J:689:GLU:HG2	2.07	0.55
1:L:65:VAL:HA	1:L:110:THR:CA	2.35	0.55
1:L:109:ILE:HD11	1:L:153:PRO:CB	2.36	0.55
1:M:6:ALA:HA	1:M:41:GLU:O	2.06	0.55
1:M:175:ARG:HG3	1:M:215:LEU:HD23	1.88	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:N:377:ARG:NH1	1:N:408:LEU:O	2.40	0.55
1:O:811:ALA:C	1:O:813:ALA:H	2.15	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:V:243:HIS:HE2	1:V:249:TRP:CG	2.24	0.55
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:220:ILE:C	1:Y:222:THR:N	2.64	0.55
1:b:291:ASP:C	1:b:293:LYS:H	2.14	0.55
1:b:310:LEU:HB3	1:b:314:GLU:HB2	1.89	0.55
1:b:360:ARG:CG	1:b:361:GLY:N	2.67	0.55
1:c:46:ALA:N	1:c:47:PRO:HD3	2.21	0.55
1:e:766:ARG:HD3	1:f:772:TYR:HB2	1.87	0.55
1:g:523:PHE:CE1	1:g:568:VAL:HG12	2.41	0.55
1:h:220:ILE:HD11	1:h:251:VAL:HG13	1.88	0.55
1:h:600:ARG:NH1	1:h:622:ALA:HB3	2.21	0.55
1:j:36:ILE:O	1:j:36:ILE:HG13	2.07	0.55
1:j:398:VAL:HG11	1:j:415:TRP:CD2	2.42	0.55
1:k:653:ALA:HA	1:k:656:ARG:NH2	2.22	0.55
1:l:332:LEU:HD21	1:l:407:MET:HB3	1.88	0.55
1:l:359:ILE:HD13	1:l:359:ILE:H	1.71	0.55
1:m:328:GLU:O	1:m:329:GLN:C	2.50	0.55
1:A:654:LEU:CD1	1:B:662:ILE:HD12	2.34	0.55
1:B:252:THR:H	1:B:254:GLN:HE22	1.55	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: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:H:70:GLN:O	1:H:70:GLN:HG3	2.06	0.55
1:H:327:SER:CB	1:H:331:GLY:HA3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:522:PHE:CD2	1:J:522:PHE:C	2.84	0.55
1:J:600:ARG:NH1	1:J:622:ALA:HB3	2.22	0.55
1:L:182:CYS:SG	1:L:208:VAL:HG21	2.47	0.55
1:L:284:ILE:HD13	1:L:284:ILE:N	2.22	0.55
1:M:61:VAL:HG13	1:M:65:VAL:HG23	1.89	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:67:ARG:HE	1:S:107:LYS:C	2.15	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:9:ARG:NH1	1:Y:36:ILE:HA	2.15	0.55
1:Y:65:VAL:HG12	1:Y:110:THR:CG2	2.36	0.55
1:Y:766:ARG:HD3	1:Z:772:TYR:HB2	1.88	0.55
1:Z:338:GLN:NE2	1:a:279:ARG:HD3	2.20	0.55
1:a:14:HIS:HB3	1:a:56:ARG:HB2	1.89	0.55
1:a:394:LYS:HA	1:b:329:GLN:CD	2.32	0.55
1:b:600:ARG:NH1	1:b:622:ALA:HB3	2.22	0.55
1:c:803:GLY:CA	1:c:806:THR:HB	2.37	0.55
1:d:164:GLN:HB3	1:d:204:TYR:HA	1.87	0.55
1:f:14:HIS:CB	1:f:56:ARG:HB2	2.37	0.55
1:g:36:ILE:O	1:g:37:ARG:HG3	2.07	0.55
1:g:221:LEU:HD22	1:g:256:THR:CG2	2.37	0.55
1:g:459:SER:CB	1:g:488:THR:HG22	2.26	0.55
1:h:132:LYS:HZ2	1:h:152:ILE:HD12	1.72	0.55
1:i:408:LEU:H	1:i:408:LEU:HD12	1.72	0.55
1:i:536:ARG:HB2	1:i:646:VAL:HB	1.88	0.55
1:j:785:GLN:HA	1:k:790:VAL:HG21	1.88	0.55
1:k:579:VAL:HG22	1:k:599:ILE:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:587:THR:HG23	1:k:590:ASP:CB	2.35	0.55
1:l:46:ALA:N	1:l:47:PRO:HD3	2.22	0.55
1:A:389:TYR:CE1	1:A:457:VAL:HA	2.42	0.55
1:C:580:ARG:HH22	1:D:595:SER:CB	2.19	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: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:E:543:TYR:CE2	1:E:575:ILE:HG21	2.42	0.55
1:F:61:VAL:HG13	1:F:65:VAL:HG23	1.88	0.55
1:F:176:LEU:CD1	1:F:209:PHE:CD1	2.84	0.55
1:H:518:LEU:HA	1:H:547:PHE:HD1	1.72	0.55
1:K:122:HIS:HB3	1:K:160:VAL:H	1.71	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:5:GLU:CG	1:P:43:VAL:HG21	2.36	0.55
1:P:267:VAL:O	1:P:268:LEU:HB2	2.06	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:30:VAL:HG22	1:V:74:LEU:HD11	1.89	0.55
1:V:116:LEU:CB	1:V:117:PRO:CD	2.82	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:b:18:VAL:H	1:b:48:VAL:CG1	2.15	0.55
1:b:89:GLU:C	1:b:90:ILE:HD13	2.32	0.55
1:d:70:GLN:HB3	1:d:104:VAL:O	2.07	0.55
1:d:135:ASP:C	1:d:136:LYS:HG3	2.32	0.55
1:d:154:GLN:HG3	1:d:155:LYS:N	2.22	0.55
1:d:276:LEU:O	1:d:277:GLY:C	2.50	0.55
1:d:771:ILE:HA	1:d:774:ARG:NH1	2.22	0.55
1:f:93:ALA:C	1:f:95:ASP:H	2.12	0.55
1:f:268:LEU:HD13	1:f:269:GLY:H	1.72	0.55
1:g:176:LEU:HD13	1:g:209:PHE:HD1	1.72	0.55
1:h:330:GLN:O	1:h:378:GLN:NE2	2.40	0.55
1:j:9:ARG:CZ	1:j:15:TYR:HB3	2.37	0.55
1:j:14:HIS:NE2	1:j:16:ILE:CD1	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:109:ILE:HD12	1:j:153:PRO:CB	2.36	0.55
1:k:354:GLY:C	1:l:328:GLU:HG3	2.31	0.55
1:l:282:CYS:SG	1:l:302:VAL:HG23	2.47	0.55
1:A:11:PRO:HG3	1:m:32:PRO:HG2	1.87	0.54
1:A:623:ARG:HG2	1:A:624:ASP:H	1.72	0.54
1:B:115:VAL:O	1:B:118:ASN:HB3	2.06	0.54
1:C:109:ILE:HD11	1:C:153:PRO:HG2	1.88	0.54
1:C:527:ILE:C	1:C:527:ILE:HD12	2.31	0.54
1:C:687:ARG:HG2	1:C:691:GLN:HE21	1.72	0.54
1:D:250:LEU:HD22	1:D:312:PRO:HD3	1.89	0.54
1:E:185:ARG:HH22	1:E:207:ALA:HB3	1.72	0.54
1:F:205:LEU:HD22	1:F:211:GLU:HB2	1.88	0.54
1:G:138:MET:HE1	1:H:148:PRO:HG3	1.89	0.54
1:G:517:LEU:O	1:G:545:TRP:CH2	2.60	0.54
1:G:601:MET:HE3	1:G:606:PHE:HB3	1.89	0.54
1:H:623:ARG:HG3	1:H:624:ASP:H	1.73	0.54
1:K:529:ILE:HD13	1:K:583:VAL:CG1	2.36	0.54
1:M:220:ILE:C	1:M:222:THR:N	2.65	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:283:VAL:HG22	1:O:301:VAL:CG1	2.36	0.54
1:O:284:ILE:HD11	1:O:300:ARG:HB3	1.87	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:54:PRO:HB2	1:Q:55:PRO:CD	2.31	0.54
1:Q:421:SER:O	1:Q:423:VAL:N	2.40	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:HD12	1:S:408:LEU:H	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:46:ALA:N	1:a:47:PRO:CD	2.70	0.54
1:a:121:LEU:HD12	1:a:145:PHE:HD2	1.73	0.54
1:a:165:ALA:HB3	1:a:174:LEU:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:8:ILE:HA	1:c:40:ASN:HD22	1.72	0.54
1:d:472:ASP:HA	1:d:493:GLU:HB3	1.88	0.54
1:e:29:GLU:O	1:e:84:ARG:NH1	2.29	0.54
1:e:115:VAL:H	1:e:118:ASN:ND2	2.05	0.54
1:f:17:HIS:CD2	1:f:18:VAL:HG22	2.42	0.54
1:f:262:ASP:HB3	1:f:264:TYR:CE1	2.42	0.54
1:f:395:THR:C	1:f:397:LYS:H	2.15	0.54
1:g:328:GLU:OE1	1:g:361:GLY:O	2.25	0.54
1:h:234:ASN:N	1:h:234:ASN:HD22	2.04	0.54
1:i:151:TYR:HD2	1:i:152:ILE:CD1	2.20	0.54
1:j:279:ARG:HG3	1:j:280:HIS:HD2	1.72	0.54
1:k:249:TRP:N	1:k:249:TRP:CD1	2.75	0.54
1:m:182:CYS:SG	1:m:208:VAL:CG2	2.96	0.54
1:m:330:GLN:CB	1:m:379:ALA:HB3	2.33	0.54
1:A:221:LEU:CD2	1:A:256:THR:CG2	2.85	0.54
1:A:310:LEU:H	1:A:310:LEU:HD12	1.72	0.54
1:B:67:ARG:HE	1:B:107:LYS:C	2.15	0.54
1:B:287:PRO:HA	1:B:314:GLU:OE2	2.07	0.54
1:D:70:GLN:CB	1:D:104:VAL:O	2.51	0.54
1:D:176:LEU:HD13	1:D:209:PHE:HD1	1.72	0.54
1:E:481:VAL:HG11	1:E:487:VAL:HG11	1.88	0.54
1:F:85:HIS:NE2	1:F:102:GLY:HA3	2.23	0.54
1:H:54:PRO:CB	1:H:55:PRO:HD3	2.34	0.54
1:H:419:LEU:HD23	1:H:421:SER:H	1.72	0.54
1:I:220:ILE:O	1:I:253:VAL:HG22	2.06	0.54
1:I:481:VAL:HG11	1:I:487:VAL:HG11	1.89	0.54
1:I:533:ASP:CG	1:I:588:PHE:H	2.15	0.54
1:J:130:GLU:N	1:J:137:VAL:HG13	2.17	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:HD12	1:K:10:ILE:N	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:M:60:ILE:HG22	1:M:66:SER:HA	1.89	0.54
1:M:252:THR:H	1:M:254:GLN:NE2	2.05	0.54
1:N:220:ILE:C	1:N:222:THR:N	2.59	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:HH11	1:P:230:ARG:HB3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:3:THR:HG22	1:a:50:MET:HE1	1.89	0.54
1:a:398:VAL:N	1:b:384:GLN:OE1	2.30	0.54
1:b:419:LEU:HD23	1:b:421:SER:H	1.72	0.54
1:c:8:ILE:HG22	1:c:40:ASN:HD21	1.72	0.54
1:c:154:GLN:HG3	1:c:155:LYS:HG3	1.88	0.54
1:c:273:ILE:HG13	1:c:308:PHE:HB3	1.89	0.54
1:c:419:LEU:HD22	1:c:422:GLY:H	1.72	0.54
1:c:627:VAL:HG22	1:c:634:VAL:HG22	1.87	0.54
1:d:311:GLN:HB3	1:d:312:PRO:HD2	1.89	0.54
1:e:146:GLU:HA	1:e:146:GLU:OE1	2.07	0.54
1:e:175:ARG:HH21	1:e:263:VAL:HG13	1.72	0.54
1:e:417:LYS:O	1:e:418:GLU:HB2	2.07	0.54
1:e:511:ARG:HH22	1:e:517:LEU:HD11	1.72	0.54
1:e:807:ILE:HD12	1:f:806:THR:HG21	1.89	0.54
1:f:165:ALA:CB	1:f:174:LEU:HD11	2.38	0.54
1:h:36:ILE:O	1:h:37:ARG:HG3	2.07	0.54
1:i:335:LYS:HB3	1:i:372:GLU:O	2.08	0.54
1:i:481:VAL:HG11	1:i:487:VAL:HG13	1.87	0.54
1:j:474:ARG:HG3	1:j:492:GLU:HB2	1.88	0.54
1:k:5:GLU:HA	1:k:7:ILE:HD11	1.88	0.54
1:k:408:LEU:HD21	1:k:414:LEU:CD1	2.37	0.54
1:l:229:LEU:HD23	1:l:266:GLU:HA	1.88	0.54
1:l:777:LEU:CD1	1:m:783:LYS:HB2	2.38	0.54
1:A:65:VAL:HG12	1:A:110:THR:HG22	1.90	0.54
1:A:262:ASP:HB3	1:A:264:TYR:CE1	2.42	0.54
1:C:10:ILE:HD12	1:C:10:ILE:N	2.22	0.54
1:C:387:GLY:HA3	1:C:402:ILE:HG22	1.88	0.54
1:D:77:ILE:CG1	1:D:80:GLN:CA	2.85	0.54
1:D:380:ILE:HD12	1:D:406:TYR:O	2.07	0.54
1:E:5:GLU:HG2	1:E:43:VAL:CG2	2.36	0.54
1:F:377:ARG:NH1	1:F:408:LEU:O	2.40	0.54
1:G:90:ILE:CG2	1:G:154:GLN:HB2	2.38	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:10:ILE:HD13	1:J:13:TYR:CD2	2.43	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:L:279:ARG:HG3	1:L:280:HIS:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:318:ARG:HB2	1:N:321:GLN:CD	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: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:S:799:THR:HG21	1:T:801:ALA:HB1	1.90	0.54
1:T:517:LEU:O	1:T:545:TRP:CH2	2.61	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:d:341:GLU:HG2	1:d:370:LYS:HD3	1.89	0.54
1:d:382:LEU:N	1:d:405:THR:HG22	2.23	0.54
1:e:13:TYR:O	1:e:36:ILE:HG12	2.08	0.54
1:e:67:ARG:NH2	1:e:107:LYS:HA	2.20	0.54
1:f:693:ILE:HD13	1:f:696:GLN:NE2	2.22	0.54
1:g:20:ASP:HB2	1:g:49:ARG:HD3	1.88	0.54
1:i:327:SER:CB	1:i:331:GLY:HA3	2.38	0.54
1:k:56:ARG:HD2	1:k:99:LEU:CD2	2.37	0.54
1:l:540:GLN:O	1:l:641:GLN:HG2	2.06	0.54
1:m:175:ARG:NE	1:m:263:VAL:HG22	2.22	0.54
1:B:40:ASN:HB3	1:B:42:ARG:HH11	1.72	0.54
1:B:522:PHE:C	1:B:522:PHE:HD2	2.16	0.54
1:C:30:VAL:HG13	1:C:74:LEU:HD11	1.89	0.54
1:C:109:ILE:CD1	1:C:153:PRO:CB	2.84	0.54
1:C:243:HIS:HE2	1:C:249:TRP:CG	2.25	0.54
1:D:771:ILE:HA	1:D:774:ARG:HH11	1.72	0.54
1:F:472:ASP:HA	1:F:493:GLU:HB3	1.89	0.54
1:G:90:ILE:HG23	1:G:154:GLN:HB2	1.90	0.54
1:H:182:CYS:SG	1:H:208:VAL:HB	2.48	0.54
1:H:327:SER:HB2	1:H:331:GLY:HA3	1.88	0.54
1:H:587:THR:HG23	1:H:590:ASP:HB3	1.88	0.54
1:I:5:GLU:CG	1:I:43:VAL:HG21	2.36	0.54
1:I:155:LYS:HZ3	1:I:155:LYS:HB2	1.73	0.54
1:I:692:LYS:HG2	1:I:696:GLN:HE21	1.71	0.54
1:J:18:VAL:N	1:J:48:VAL:HG13	2.18	0.54
1:J:229:LEU:HD23	1:J:266:GLU:HA	1.89	0.54
1:J:511:ARG:HH22	1:J:517:LEU:HD11	1.72	0.54
1:K:319:GLY:C	1:K:320:ILE:HD13	2.32	0.54
1:L:119:THR:HG23	1:L:163:ILE:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:Q:252:THR:O	1:Q:253:VAL:C	2.50	0.54
1:Q:472:ASP:HA	1:Q:493:GLU:CB	2.37	0.54
1:Q:522:PHE:CD2	1:Q:522:PHE:C	2.86	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:3:THR:CG2	1:T:50:MET:HE1	2.37	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:Z:398:VAL:HB	1:a:384:GLN:HE22	1.73	0.54
1:a:73:VAL:H	1:a:84:ARG:CB	2.14	0.54
1:a:126:LEU:HB2	1:a:157:VAL:HG23	1.90	0.54
1:b:276:LEU:N	1:b:280:HIS:HB2	2.23	0.54
1:e:119:THR:HG23	1:e:163:ILE:HG23	1.89	0.54
1:e:387:GLY:CA	1:e:402:ILE:HG22	2.36	0.54
1:e:462:VAL:HB	1:e:485:GLU:O	2.07	0.54
1:f:229:LEU:HD23	1:f:266:GLU:HA	1.89	0.54
1:f:704:LYS:HD2	1:g:712:MET:HB3	1.90	0.54
1:g:564:VAL:CG2	1:g:631:ASN:ND2	2.70	0.54
1:h:654:LEU:CD1	1:i:662:ILE:CD1	2.85	0.54
1:m:327:SER:H	1:m:331:GLY:HA3	1.72	0.54
1:m:327:SER:N	1:m:331:GLY:HA3	2.22	0.54
1:A:1:MET:O	1:A:2:ALA:HB2	2.08	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:D:425:GLU:CD	1:D:425:GLU:H	2.13	0.54
1:H:382:LEU:H	1:H:405:THR:HG22	1.73	0.54
1:H:796:LYS:HA	1:H:799:THR:HG22	1.90	0.54
1:I:54:PRO:HB2	1:I:55:PRO:CD	2.33	0.54
1:J:481:VAL:O	1:J:481:VAL:HG13	2.07	0.54
1:K:394:LYS:HA	1:L:329:GLN:NE2	2.23	0.54
1:L:294:ASN:HD21	1:L:313:GLY:HA3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:573:LYS:HD2	1:M:542:ALA:CB	2.38	0.54
1:L:662:ILE:O	1:L:666:THR:HB	2.07	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:Q:352:GLN:O	1:Q:353:ALA:C	2.50	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:239:ARG:HH21	1:X:257:GLU:HG2	1.72	0.54
1:X:251:VAL:CG2	1:X:254:GLN:NE2	2.70	0.54
1:Y:124:LYS:HG2	1:Y:157:VAL:O	2.07	0.54
1:Y:168:ILE:HD12	1:Y:168:ILE:N	2.21	0.54
1:Z:2:ALA:HB3	1:Z:46:ALA:O	2.08	0.54
1:Z:452:ARG:HH11	1:Z:452:ARG:HG3	1.72	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	1.89	0.54
1:c:717:GLU:O	1:c:721:ASN:HB2	2.07	0.54
1:d:113:GLN:HG2	1:d:150:THR:HB	1.89	0.54
1:d:418:GLU:HG2	1:d:423:VAL:HG22	1.88	0.54
1:g:174:LEU:HG	1:g:214:ASP:OD1	2.08	0.54
1:g:469:GLN:HB3	1:g:496:THR:CG2	2.35	0.54
1:h:131:ASP:CB	1:h:155:LYS:HD2	2.38	0.54
1:h:523:PHE:CE1	1:h:568:VAL:HG12	2.43	0.54
1:i:123:LEU:HG	1:i:143:TRP:HB2	1.90	0.54
1:j:100:TYR:HB3	1:j:101:PRO:HD2	1.90	0.54
1:k:485:GLU:HG2	1:k:486:LEU:H	1.71	0.54
1:m:804:PRO:O	1:m:807:ILE:HD11	2.07	0.54
1:A:121:LEU:HD12	1:A:145:PHE:HD2	1.71	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:46:ALA:N	1:B:47:PRO:HD3	2.22	0.54
1:B:297:GLY:O	1:C:276:LEU:HD22	2.08	0.54
1:C:19:LEU:HA	1:C:32:PRO:HB2	1.90	0.54
1:C:165:ALA:O	1:C:203:ALA:O	2.26	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:G:67:ARG:HH21	1:G:107:LYS:HA	1.72	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:I:58:TYR:HD1	1:I:99:LEU:HD12	1.73	0.54
1:I:100:TYR:HB3	1:I:101:PRO:CD	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:128:ASP:HB2	1:I:155:LYS:HB3	1.89	0.54
1:I:221:LEU:HD22	1:I:256:THR:CG2	2.36	0.54
1:I:244:ARG:N	1:I:247:GLU:OE1	2.40	0.54
1:J:155:LYS:HB2	1:J:155:LYS:NZ	2.22	0.54
1:J:285:LEU:HD12	1:J:315:ARG:HD2	1.89	0.54
1:L:419:LEU:CD2	1:L:422:GLY:H	2.19	0.54
1:M:339:PRO:HD2	1:M:370:LYS:HB3	1.90	0.54
1:M:594:ASN:O	1:M:595:SER:C	2.51	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:243:HIS:HE2	1:P:249:TRP:CG	2.25	0.54
1:P:354:GLY:C	1:Q:328:GLU:HG3	2.32	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:8:ILE:HA	1:X:40:ASN:HD22	1.72	0.54
1:X:123:LEU:CG	1:X:143:TRP:HB2	2.38	0.54
1:X:221:LEU:HD22	1:X:256:THR:HB	1.88	0.54
1:X:794:LYS:HE3	1:X:798:MET:HE2	1.89	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:b:1:MET:O	1:b:2:ALA:HB2	2.07	0.54
1:b:185:ARG:HG3	1:b:206:PRO:CB	2.37	0.54
1:e:10:ILE:N	1:e:10:ILE:HD12	2.22	0.54
1:e:113:GLN:OE1	1:e:150:THR:N	2.41	0.54
1:f:501:SER:HB3	1:f:507:ARG:O	2.06	0.54
1:f:687:ARG:HG2	1:f:691:GLN:HE21	1.72	0.54
1:g:332:LEU:HG	1:g:360:ARG:HD3	1.89	0.54
1:g:771:ILE:HD13	1:g:774:ARG:HH12	1.68	0.54
1:h:175:ARG:HG3	1:h:215:LEU:HD23	1.90	0.54
1:h:261:PRO:HD2	1:h:264:TYR:HD1	1.73	0.54
1:i:70:GLN:HE21	1:i:104:VAL:HG12	1.70	0.54
1:j:228:HIS:NE2	1:j:248:GLU:OE1	2.40	0.54
1:j:529:ILE:CD1	1:j:537:LEU:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:63:ASN:N	1:m:64:PRO:HD2	2.22	0.54
1:m:176:LEU:HB2	1:m:196:TRP:HB2	1.90	0.54
1:m:332:LEU:HD11	1:m:379:ALA:HB2	1.90	0.54
1:A:53:VAL:HG11	1:A:56:ARG:HE	1.73	0.54
1:A:230:ARG:HH11	1:A:230:ARG:HB3	1.73	0.54
1:B:14:HIS:HD1	1:B:36:ILE:CG2	2.20	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:235:PHE:CE1	1:E:264:TYR:CE1	2.95	0.54
1:E:571:ALA:O	1:E:575:ILE:HG13	2.08	0.54
1:F:67:ARG:HH21	1:F:107:LYS:HA	1.72	0.54
1:G:4:GLU:OE2	1:G:6:ALA:HB2	2.08	0.54
1:H:18:VAL:N	1:H:48:VAL:HG13	2.18	0.54
1:I:425:GLU:CD	1:I:425:GLU:H	2.14	0.54
1:K:100:TYR:H	1:K:103:GLU:CD	2.16	0.54
1:L:67:ARG:HH21	1:L:107:LYS:HA	1.72	0.54
1:L:229:LEU:HD23	1:L:266:GLU:HA	1.89	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:HD13	1:U:388:ILE:N	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:b:421:SER:O	1:b:422:GLY:C	2.51	0.54
1:e:15:TYR:CE2	1:e:17:HIS:HB3	2.43	0.54
1:e:43:VAL:HG12	1:e:45:PHE:O	2.08	0.54
1:f:662:ILE:O	1:f:666:THR:HB	2.07	0.54
1:f:766:ARG:HD3	1:g:772:TYR:CB	2.29	0.54
1:g:58:TYR:CD1	1:g:98:PRO:HA	2.43	0.54
1:g:725:GLU:O	1:g:728:SER:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:8:ILE:HG22	1:i:40:ASN:HD21	1.72	0.54
1:j:221:LEU:CD2	1:j:256:THR:CB	2.86	0.54
1:k:109:ILE:CD1	1:k:153:PRO:HB2	2.36	0.54
1:k:273:ILE:HG21	1:k:316:LEU:HD11	1.89	0.54
1:k:771:ILE:HA	1:k:774:ARG:HH11	1.73	0.54
1:l:330:GLN:OE1	1:l:407:MET:HG3	2.08	0.54
1:A:363:LEU:HD13	1:A:364:GLU:H	1.73	0.54
1:B:470:VAL:HB	1:B:479:ARG:HD2	1.89	0.54
1:C:340:LEU:HD23	1:C:352:GLN:HA	1.89	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:421:SER:HB3	1:D:512:ARG:HH21	1.73	0.54
1:E:18:VAL:N	1:E:48:VAL:HG13	2.18	0.54
1:F:18:VAL:N	1:F:48:VAL:HG13	2.16	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: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:K:19:LEU:HA	1:K:32:PRO:HB2	1.90	0.54
1:K:529:ILE:C	1:K:529:ILE:HD12	2.33	0.54
1:M:8:ILE:HG22	1:M:40:ASN:HD21	1.72	0.54
1:M:283:VAL:HG22	1:M:301:VAL:CG1	2.36	0.54
1:M:795:PHE:O	1:M:799:THR:HG22	2.07	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:P:319:GLY:C	1:P:320:ILE:HD13	2.33	0.54
1:Q:319:GLY:C	1:Q:320:ILE:HD13	2.33	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: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:O	1:X:402:ILE:HD12	2.08	0.54
1:Z:501:SER:HB3	1:Z:507:ARG:O	2.07	0.54
1:a:146:GLU:HA	1:a:146:GLU:OE1	2.08	0.54
1:b:284:ILE:HD13	1:b:300:ARG:O	2.08	0.54
1:b:296:LEU:HG	1:c:307:SER:HB3	1.90	0.54
1:c:340:LEU:HG	1:c:353:ALA:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:182:CYS:SG	1:d:208:VAL:CG2	2.95	0.54
1:d:395:THR:HB	1:d:397:LYS:HB3	1.89	0.54
1:d:532:ALA:HB1	1:e:593:LYS:HE2	1.90	0.54
1:e:328:GLU:OE1	1:e:328:GLU:HA	2.07	0.54
1:i:276:LEU:N	1:i:280:HIS:HB2	2.22	0.54
1:l:766:ARG:HG3	1:m:772:TYR:CD1	2.42	0.54
1:m:227:LEU:HB2	1:m:251:VAL:CG1	2.38	0.54
1:m:230:ARG:HB3	1:m:230:ARG:HH11	1.73	0.54
1:m:527:ILE:HD11	1:m:539:LEU:CG	2.37	0.54
1:B:228:HIS:NE2	1:B:312:PRO:HB3	2.23	0.54
1:B:354:GLY:C	1:C:328:GLU:HG3	2.33	0.54
1:B:398:VAL:HB	1:C:384:GLN:HE22	1.72	0.54
1:C:291:ASP:C	1:C:293:LYS:H	2.16	0.54
1:C:508:PRO:O	1:C:509:HIS:HD2	1.90	0.54
1:D:71:SER:HB3	1:D:89:GLU:HG3	1.88	0.54
1:D:762:VAL:O	1:D:766:ARG:HB2	2.08	0.54
1:E:340:LEU:HD23	1:E:352:GLN:HA	1.88	0.54
1:E:419:LEU:HG	1:E:420:PRO:CD	2.25	0.54
1:F:249:TRP:N	1:F:249:TRP:CD1	2.76	0.54
1:G:255:ASP:OD2	1:G:257:GLU:HB3	2.08	0.54
1:H:600:ARG:CZ	1:H:622:ALA:HB3	2.38	0.54
1:I:664:ILE:O	1:I:668:SER:HB2	2.08	0.54
1:I:697:SER:HB3	1:J:706:LEU:HB2	1.89	0.54
1:J:120:ALA:HB3	1:J:162:ILE:HG13	1.89	0.54
1:J:708:GLU:HG3	1:K:716:VAL:HG11	1.90	0.54
1:K:54:PRO:HB2	1:K:55:PRO:CD	2.37	0.54
1:L:243:HIS:NE2	1:L:249:TRP:CD2	2.75	0.54
1:N:5:GLU:OE1	1:N:43:VAL:HG11	2.07	0.54
1:N:220:ILE:O	1:N:253:VAL:HG22	2.07	0.54
1:O:594:ASN:HB2	1:O:598:ILE:CD1	2.38	0.54
1:P:90:ILE:HD12	1:P:90:ILE:O	2.08	0.54
1:P:298:GLN:HG3	1:Q:305:GLU:CD	2.33	0.54
1:R:311:GLN:HB3	1:R:312:PRO:CD	2.33	0.54
1:R:452:ARG:HH11	1:R:452:ARG:HG3	1.73	0.54
1:R:811:ALA:C	1:R:813:ALA:H	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:46:ALA:N	1:Y:47:PRO:HD3	2.21	0.54
1:Y:327:SER:CB	1:Y:331:GLY:HA3	2.37	0.54
1:a:327:SER:CA	1:a:331:GLY:HA3	2.38	0.54
1:b:121:LEU:HD12	1:b:145:PHE:HD2	1.73	0.54
1:b:332:LEU:HD21	1:b:407:MET:CB	2.38	0.54
1:b:511:ARG:HH22	1:b:517:LEU:HD11	1.73	0.54
1:d:795:PHE:O	1:d:799:THR:HG22	2.08	0.54
1:e:407:MET:SD	1:e:407:MET:N	2.66	0.54
1:f:130:GLU:HA	1:f:136:LYS:HA	1.89	0.54
1:g:100:TYR:HB3	1:g:101:PRO:CD	2.38	0.54
1:h:335:LYS:HB2	1:h:335:LYS:NZ	2.22	0.54
1:h:654:LEU:HD11	1:i:662:ILE:HG21	1.89	0.54
1:h:769:GLU:HG2	1:h:769:GLU:O	2.08	0.54
1:j:215:LEU:HD12	1:j:259:HIS:NE2	2.22	0.54
1:j:340:LEU:HD23	1:j:352:GLN:HA	1.89	0.54
1:l:182:CYS:SG	1:l:208:VAL:HG23	2.48	0.54
1:l:568:VAL:HG23	1:l:569:GLY:N	2.22	0.54
1:m:28:VAL:HG12	1:m:30:VAL:HG23	1.90	0.54
1:m:252:THR:H	1:m:254:GLN:NE2	2.05	0.54
1:A:329:GLN:NE2	1:A:330:GLN:HG2	2.22	0.54
1:A:481:VAL:HG11	1:A:487:VAL:CG1	2.38	0.54
1:B:337:LEU:HD22	1:B:357:TRP:HZ3	1.71	0.54
1:B:701:LYS:HG3	1:C:709:LEU:HD13	1.90	0.54
1:D:20:ASP:HB2	1:D:49:ARG:HD3	1.90	0.54
1:E:70:GLN:HB3	1:E:104:VAL:N	2.15	0.54
1:G:327:SER:HB2	1:G:331:GLY:HA2	1.86	0.54
1:G:660:LEU:HA	1:G:663:GLU:HB3	1.90	0.54
1:H:606:PHE:HB2	1:H:622:ALA:HA	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:I:260:VAL:HB	1:I:263:VAL:HA	1.89	0.54
1:J:182:CYS:SG	1:J:208:VAL:HB	2.48	0.54
1:J:605:GLY:HA3	1:J:623:ARG:HH21	1.73	0.54
1:K:116:LEU:O	1:K:117:PRO:C	2.51	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:384:GLN:HE21	1:M:384:GLN:N	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:523:PHE:CE1	1:N:568:VAL:HG12	2.43	0.54
1:N:558:ALA:O	1:N:561:LEU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:476:LYS:HE2	1:a:485:GLU:CG	2.32	0.54
1:a:9:ARG:NH1	1:a:36:ILE:HA	2.21	0.54
1:b:243:HIS:NE2	1:b:249:TRP:CD2	2.75	0.54
1:b:384:GLN:HE21	1:b:384:GLN:N	2.06	0.54
1:b:633:LEU:HD23	1:b:634:VAL:N	2.23	0.54
1:d:337:LEU:N	1:d:337:LEU:HD23	2.22	0.54
1:g:284:ILE:HD13	1:g:284:ILE:N	2.20	0.54
1:i:5:GLU:HG2	1:i:43:VAL:HG21	1.89	0.54
1:i:100:TYR:HB3	1:i:101:PRO:CD	2.36	0.54
1:j:43:VAL:CG1	1:j:45:PHE:O	2.56	0.54
1:j:152:ILE:CD1	1:j:152:ILE:N	2.71	0.54
1:k:76:ASP:CG	1:k:81:VAL:HA	2.33	0.54
1:m:273:ILE:HG12	1:m:310:LEU:HD11	1.89	0.54
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:426:LEU:C	1:C:428:ASN:H	2.16	0.53
1:D:154:GLN:HG3	1:D:155:LYS:N	2.23	0.53
1:D:224:LYS:CA	1:D:272:PRO:HG3	2.29	0.53
1:E:771:ILE:HD13	1:E:774:ARG:NH1	2.14	0.53
1:F:43:VAL:HG12	1:F:45:PHE:O	2.08	0.53
1:F:471:TYR:CE1	1:G:484:PRO:HG2	2.44	0.53
1:H:77:ILE:HD11	1:H:80:GLN:HG3	1.90	0.53
1:H:723:LYS:HG3	1:I:735:ILE:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:16:ILE:HB	1:I:51:VAL:HB	1.89	0.53
1:I:418:GLU:HG2	1:I:423:VAL:HG22	1.90	0.53
1:I:533:ASP:OD1	1:I:587:THR:HA	2.08	0.53
1:J:9:ARG:HH12	1:J:36:ILE:CA	2.12	0.53
1:J:251:VAL:CG2	1:J:254:GLN:HE21	2.20	0.53
1:J:594:ASN:O	1:J:595:SER:C	2.52	0.53
1:K:273:ILE:HG23	1:K:310:LEU:HD11	1.90	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:N:60:ILE:H	1:N:60:ILE:HD12	1.73	0.53
1:N:275:THR:HG22	1:N:320:ILE:HG22	1.90	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:18:VAL:CG1	1:Q:48:VAL:HG22	2.27	0.53
1:Q:43:VAL:HG12	1:Q:45:PHE:O	2.07	0.53
1:R:127:LEU:HB3	1:S:64:PRO:HD3	1.89	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:T:74:LEU:HD22	1:T:100:TYR:HE2	1.73	0.53
1:T:196:TRP:HA	1:T:196:TRP:HE3	1.73	0.53
1:T:469:GLN:HB3	1:T:496:THR:CG2	2.35	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:Z:745:LYS:HG3	1:a:753:ILE:HD13	1.90	0.53
1:a:336:ALA:HA	1:a:356:CYS:HB3	1.89	0.53
1:b:471:TYR:CE1	1:c:484:PRO:HG2	2.42	0.53
1:c:260:VAL:O	1:c:262:ASP:N	2.42	0.53
1:e:36:ILE:O	1:e:37:ARG:HG3	2.07	0.53
1:h:472:ASP:HA	1:h:493:GLU:CB	2.37	0.53
1:i:239:ARG:NH2	1:i:257:GLU:OE2	2.41	0.53
1:j:70:GLN:HB3	1:j:104:VAL:H	1.73	0.53
1:j:252:THR:N	1:j:254:GLN:HE21	1.99	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:523:PHE:CE1	1:j:568:VAL:HG12	2.43	0.53
1:k:654:LEU:CD1	1:l:662:ILE:HG21	2.36	0.53
1:l:152:ILE:HD11	1:l:156:GLU:OE2	2.08	0.53
1:m:327:SER:CB	1:m:331:GLY:HA3	2.37	0.53
1:m:532:ALA:HB2	1:m:584:ALA:O	2.08	0.53
1:m:807:ILE:HD12	1:m:808:ARG:H	1.72	0.53
1:A:182:CYS:O	1:A:190:ARG:HB2	2.09	0.53
1:B:415:TRP:CH2	1:B:417:LYS:HB3	2.43	0.53
1:C:221:LEU:CD2	1:C:256:THR:HB	2.36	0.53
1:C:243:HIS:NE2	1:C:249:TRP:CE2	2.75	0.53
1:C:345:SER:C	1:C:347:GLU:H	2.17	0.53
1:D:64:PRO:HA	1:D:111:PRO:HD2	1.89	0.53
1:D:273:ILE:HD13	1:D:316:LEU:HD11	1.91	0.53
1:E:297:GLY:O	1:F:276:LEU:HD22	2.07	0.53
1:E:676:GLU:HA	1:E:676:GLU:OE1	2.06	0.53
1:F:261:PRO:HD2	1:F:264:TYR:HB2	1.89	0.53
1:G:284:ILE:HD13	1:G:284:ILE:N	2.24	0.53
1:H:3:THR:CG2	1:H:50:MET:HE1	2.39	0.53
1:H:5:GLU:O	1:H:41:GLU:O	2.27	0.53
1:K:135:ASP:C	1:K:136:LYS:HG3	2.33	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: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:O:476:LYS:HE3	1:P:485:GLU:HG3	1.90	0.53
1:P:14:HIS:HB3	1:P:56:ARG:HB2	1.89	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:S:758:GLU:O	1:S:762:VAL:HG23	2.08	0.53
1:T:60:ILE:HG22	1:T:66:SER:HA	1.90	0.53
1:T:175:ARG:HE	1:T:263:VAL:HG22	1.72	0.53
1:T:221:LEU:CD2	1:T:256:THR:HG21	2.38	0.53
1:T:330:GLN:HB3	1:T:379:ALA:HB3	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:O	1:Y:481:VAL:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Z:708:GLU:HG3	1:a:716:VAL:HG11	1.89	0.53
1:b:46:ALA:N	1:b:47:PRO:HD3	2.22	0.53
1:c:398:VAL:N	1:d:384:GLN:OE1	2.41	0.53
1:d:62:ALA:O	1:d:93:ALA:HB2	2.08	0.53
1:f:10:ILE:HD12	1:f:10:ILE:N	2.21	0.53
1:f:227:LEU:O	1:f:250:LEU:HA	2.08	0.53
1:f:419:LEU:CG	1:f:420:PRO:HD2	2.16	0.53
1:f:529:ILE:CD1	1:f:537:LEU:HB2	2.38	0.53
1:f:719:THR:HG22	1:g:728:SER:HA	1.89	0.53
1:g:180:LYS:O	1:g:182:CYS:N	2.40	0.53
1:g:273:ILE:CD1	1:g:316:LEU:HD21	2.37	0.53
1:l:221:LEU:HA	1:l:253:VAL:HG13	1.88	0.53
1:A:469:GLN:HB3	1:A:496:THR:HG21	1.90	0.53
1:B:16:ILE:HA	1:B:34:THR:OG1	2.08	0.53
1:B:204:TYR:O	1:B:206:PRO:HD3	2.09	0.53
1:D:18:VAL:H	1:D:48:VAL:CG1	2.16	0.53
1:E:113:GLN:OE1	1:E:149:GLY:HA2	2.08	0.53
1:E:130:GLU:HB2	1:E:136:LYS:CB	2.38	0.53
1:E:474:ARG:HG3	1:E:492:GLU:HB2	1.90	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:8:ILE:HA	1:R:40:ASN:HD22	1.72	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:S:426:LEU:C	1:S:428:ASN:H	2.16	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:HA	1:U:196:TRP:HE3	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:Z:425:GLU:CD	1:Z:425:GLU:H	2.17	0.53
1:Z:762:VAL:O	1:Z:766:ARG:HB2	2.08	0.53
1:e:311:GLN:HB3	1:e:312:PRO:HD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:284:ILE:HD11	1:f:300:ARG:HB3	1.90	0.53
1:f:697:SER:HA	1:g:706:LEU:HD23	1.90	0.53
1:g:174:LEU:H	1:g:198:VAL:HB	1.73	0.53
1:g:762:VAL:CG1	1:h:768:MET:HE2	2.37	0.53
1:h:8:ILE:HG22	1:h:40:ASN:ND2	2.24	0.53
1:h:17:HIS:CD2	1:h:18:VAL:HG22	2.44	0.53
1:h:224:LYS:O	1:h:272:PRO:HD3	2.07	0.53
1:i:176:LEU:O	1:i:196:TRP:HB2	2.08	0.53
1:i:330:GLN:CG	1:i:379:ALA:HB3	2.13	0.53
1:j:154:GLN:HG3	1:j:155:LYS:NZ	2.21	0.53
1:k:171:ASN:O	1:k:216:VAL:HA	2.08	0.53
1:k:388:ILE:HD12	1:k:388:ILE:O	2.08	0.53
1:m:418:GLU:OE2	1:m:452:ARG:NH1	2.41	0.53
1:A:327:SER:CA	1:A:331:GLY:HA3	2.38	0.53
1:C:175:ARG:HE	1:C:263:VAL:HG22	1.73	0.53
1:C:229:LEU:HD23	1:C:266:GLU:HA	1.90	0.53
1:E:337:LEU:HG	1:E:354:GLY:H	1.73	0.53
1:H:100:TYR:HB3	1:H:101:PRO:CD	2.39	0.53
1:I:16:ILE:HA	1:I:34:THR:OG1	2.09	0.53
1:I:113:GLN:O	1:I:114:VAL:HG13	2.08	0.53
1:I:398:VAL:N	1:J:384:GLN:OE1	2.41	0.53
1:J:330:GLN:HE22	1:J:360:ARG:HD2	1.73	0.53
1:K:206:PRO:HB2	1:K:209:PHE:CD2	2.43	0.53
1:K:734:ARG:HH21	1:K:735:ILE:CD1	2.20	0.53
1:L:14:HIS:CG	1:L:99:LEU:HD22	2.44	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:M:16:ILE:HB	1:M:51:VAL:HB	1.90	0.53
1:N:287:PRO:O	1:N:295:GLN:HB2	2.08	0.53
1:O:30:VAL:HG22	1:O:74:LEU:HD11	1.91	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: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:77:ILE:HG13	1:Y:79:GLY:N	2.23	0.53
1:Y:227:LEU:HB2	1:Y:251:VAL:HG13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:469:GLN:HB3	1:Y:496:THR:CG2	2.37	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:244:ARG:O	1:a:247:GLU:HB2	2.09	0.53
1:a:474:ARG:CG	1:a:492:GLU:HB2	2.38	0.53
1:b:5:GLU:CG	1:b:43:VAL:HG21	2.37	0.53
1:c:70:GLN:HA	1:c:88:GLN:HG3	1.90	0.53
1:c:399:ARG:HH11	1:c:399:ARG:HG2	1.73	0.53
1:c:507:ARG:HB2	1:c:510:ALA:HB2	1.89	0.53
1:g:56:ARG:HH11	1:g:99:LEU:CD2	2.22	0.53
1:g:100:TYR:HB3	1:g:101:PRO:HD2	1.90	0.53
1:g:291:ASP:C	1:g:293:LYS:H	2.17	0.53
1:g:777:LEU:HD11	1:h:783:LYS:CB	2.32	0.53
1:h:120:ALA:HB3	1:h:162:ILE:HG13	1.91	0.53
1:i:221:LEU:HD22	1:i:256:THR:CB	2.39	0.53
1:i:474:ARG:CG	1:i:492:GLU:HB2	2.39	0.53
1:i:719:THR:HG22	1:j:728:SER:HA	1.90	0.53
1:j:116:LEU:CB	1:j:117:PRO:CD	2.80	0.53
1:j:324:TYR:HE1	1:j:373:VAL:HG21	1.73	0.53
1:k:354:GLY:O	1:k:356:CYS:N	2.41	0.53
1:l:113:GLN:HG2	1:l:150:THR:HB	1.90	0.53
1:m:24:ASN:ND2	1:m:30:VAL:HB	2.23	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:B:539:LEU:HD22	1:B:643:VAL:HG22	1.90	0.53
1:D:176:LEU:HB2	1:D:196:TRP:HB2	1.91	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:G:182:CYS:SG	1:G:208:VAL:CG2	2.97	0.53
1:G:472:ASP:HA	1:G:493:GLU:CB	2.39	0.53
1:H:36:ILE:HG21	1:H:99:LEU:HD13	1.91	0.53
1:H:485:GLU:HG2	1:H:486:LEU:N	2.24	0.53
1:I:24:ASN:HD22	1:I:30:VAL:HB	1.73	0.53
1:I:60:ILE:HB	1:I:93:ALA:HA	1.90	0.53
1:I:529:ILE:HD13	1:I:583:VAL:HG11	1.90	0.53
1:K:332:LEU:HG	1:K:360:ARG:HB2	1.91	0.53
1:K:408:LEU:HD12	1:K:408:LEU:H	1.73	0.53
1:L:36:ILE:HD12	1:L:98:PRO:HB3	1.91	0.53
1:L:61:VAL:HG22	1:L:65:VAL:HG23	1.91	0.53
1:L:137:VAL:HG23	1:L:138:MET:N	2.24	0.53
1:L:234:ASN:N	1:L:234:ASN:HD22	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:522:PHE:CD2	1:N:522:PHE:C	2.87	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:68:ASP:HA	1:R:90:ILE:HA	1.90	0.53
1:R:121:LEU:HB2	1:R:145:PHE:HB3	1.90	0.53
1:R:180:LYS:C	1:R:182:CYS:N	2.61	0.53
1:S:113:GLN:O	1:S:114:VAL:HG13	2.08	0.53
1:S:766:ARG:HG3	1:T:772:TYR:CD1	2.43	0.53
1:T:288:MET:HE1	1:T:294:ASN:ND2	2.23	0.53
1:T:526:VAL:HG22	1:T:540:GLN:HG2	1.90	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:V:654:LEU:CD1	1:W:662:ILE:CD1	2.85	0.53
1:W:11:PRO:CA	1:W:38:GLN:HA	2.37	0.53
1:W:14:HIS:HB3	1:W:56:ARG:HB2	1.91	0.53
1:Y:489:LEU:HD11	1:Y:495:PHE:CD1	2.43	0.53
1:Z:90:ILE:HD13	1:Z:90:ILE:N	2.23	0.53
1:a:332:LEU:CD2	1:a:407:MET:HB2	2.38	0.53
1:c:234:ASN:N	1:c:234:ASN:HD22	2.06	0.53
1:d:328:GLU:HG3	1:d:329:GLN:N	2.23	0.53
1:d:459:SER:CB	1:d:488:THR:HG22	2.37	0.53
1:e:339:PRO:HD2	1:e:370:LYS:HB3	1.91	0.53
1:f:8:ILE:HA	1:f:40:ASN:HD22	1.73	0.53
1:g:17:HIS:CD2	1:g:18:VAL:HG22	2.44	0.53
1:g:61:VAL:HG13	1:g:65:VAL:HB	1.90	0.53
1:i:750:ALA:C	1:i:752:ALA:H	2.16	0.53
1:j:36:ILE:O	1:j:37:ARG:HG3	2.08	0.53
1:j:51:VAL:O	1:j:53:VAL:HG23	2.07	0.53
1:k:75:PHE:CZ	1:k:77:ILE:HG23	2.44	0.53
1:l:115:VAL:O	1:l:118:ASN:CB	2.56	0.53
1:m:8:ILE:HD13	1:m:8:ILE:N	2.22	0.53
1:m:190:ARG:O	1:m:191:VAL:HG23	2.08	0.53
1:m:221:LEU:CD2	1:m:256:THR:CB	2.85	0.53
1:A:276:LEU:O	1:A:277:GLY:C	2.50	0.53
1:A:328:GLU:O	1:A:329:GLN:C	2.52	0.53
1:A:485:GLU:HG2	1:A:486:LEU:H	1.73	0.53
1:A:533:ASP:OD1	1:A:588:PHE:N	2.42	0.53
1:B:120:ALA:O	1:B:161:GLU:HA	2.09	0.53
1:B:236:ARG:HB3	1:B:236:ARG:CZ	2.38	0.53
1:B:623:ARG:HG2	1:B:624:ASP:H	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:ILE:HD11	1:C:56:ARG:HH22	1.73	0.53
1:C:522:PHE:C	1:C:522:PHE:HD2	2.17	0.53
1:D:283:VAL:HG22	1:D:301:VAL:HG12	1.90	0.53
1:D:337:LEU:HD22	1:D:357:TRP:HZ3	1.74	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:F:394:LYS:HZ3	1:G:329:GLN:HB2	1.73	0.53
1:G:230:ARG:HB2	1:G:265:GLU:HB3	1.88	0.53
1:G:698:GLU:OE2	1:G:698:GLU:HA	2.09	0.53
1:H:221:LEU:HD13	1:H:256:THR:HB	1.90	0.53
1:I:9:ARG:NH1	1:I:36:ILE:HA	2.17	0.53
1:I:230:ARG:HB2	1:I:265:GLU:HB3	1.91	0.53
1:I:299:LYS:HE3	1:J:276:LEU:HD11	1.89	0.53
1:J:284:ILE:HD13	1:J:300:ARG:O	2.09	0.53
1:J:291:ASP:C	1:J:293:LYS:H	2.15	0.53
1:L:426:LEU:HD21	1:L:495:PHE:CE1	2.43	0.53
1:M:243:HIS:HE2	1:M:249:TRP:CG	2.27	0.53
1:M:291:ASP:C	1:M:293:LYS:H	2.15	0.53
1:M:517:LEU:H	1:M:517:LEU:HD12	1.72	0.53
1:O:327:SER:CA	1:O:331:GLY:HA3	2.38	0.53
1:P:13:TYR:HB3	1:P:54:PRO:O	2.09	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: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:HD23	1:V:242:LEU:H	1.73	0.53
1:W:390:VAL:HG12	1:W:408:LEU:HD23	1.90	0.53
1:W:476:LYS:CG	1:X:485:GLU:HG3	2.38	0.53
1:X:194:GLU:HG2	1:X:195:GLU:H	1.73	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:394:LYS:HA	1:c:329:GLN:NE2	2.23	0.53
1:e:239:ARG:HH21	1:e:257:GLU:CG	2.22	0.53
1:e:311:GLN:N	1:e:314:GLU:HG3	2.24	0.53
1:f:221:LEU:CD2	1:f:256:THR:CG2	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:335:LYS:HE2	1:f:371:VAL:HG11	1.90	0.53
1:g:164:GLN:HB3	1:g:204:TYR:HA	1.90	0.53
1:h:29:GLU:O	1:h:84:ARG:NH1	2.38	0.53
1:i:268:LEU:HD13	1:i:269:GLY:H	1.74	0.53
1:i:328:GLU:OE1	1:i:361:GLY:O	2.27	0.53
1:j:2:ALA:HB3	1:j:46:ALA:O	2.08	0.53
1:j:663:GLU:O	1:j:666:THR:HG22	2.09	0.53
1:j:807:ILE:HD12	1:k:806:THR:HG21	1.90	0.53
1:k:5:GLU:O	1:k:41:GLU:O	2.26	0.53
1:l:291:ASP:C	1:l:293:LYS:H	2.17	0.53
1:l:417:LYS:HE3	1:l:491:PRO:O	2.07	0.53
1:m:19:LEU:HD23	1:m:32:PRO:HB2	1.89	0.53
1:A:485:GLU:HG2	1:A:486:LEU:N	2.23	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: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:10:ILE:HD12	1:E:10:ILE:N	2.20	0.53
1:E:74:LEU:HD22	1:E:100:TYR:CE2	2.44	0.53
1:E:90:ILE:H	1:E:90:ILE:HD13	1.74	0.53
1:E:279:ARG:O	1:E:323:VAL:N	2.40	0.53
1:F:251:VAL:HG21	1:F:257:GLU:HG2	1.90	0.53
1:H:260:VAL:C	1:H:262:ASP:H	2.14	0.53
1:H:332:LEU:HG	1:H:360:ARG:HB2	1.91	0.53
1:I:180:LYS:C	1:I:182:CYS:N	2.63	0.53
1:J:806:THR:O	1:J:810:LEU:HB2	2.09	0.53
1:L:8:ILE:HG22	1:L:40:ASN:ND2	2.24	0.53
1:L:288:MET:HE1	1:L:312:PRO:HG2	1.91	0.53
1:L:811:ALA:C	1:L:813:ALA:H	2.17	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:77:ILE:CG1	1:N:80:GLN:H	2.19	0.53
1:N:537:LEU:HD21	1:N:588:PHE:HE1	1.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:750:ALA:C	1:T:752:ALA:H	2.17	0.53
1:U:328:GLU:OE1	1:U:328:GLU:CA	2.56	0.53
1:V:490:ASP:CG	1:V:491:PRO:HD2	2.34	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:138:MET:HE1	1:b:148:PRO:HG3	1.91	0.53
1:b:89:GLU:HA	1:b:90:ILE:HD13	1.90	0.53
1:c:60:ILE:HG22	1:c:66:SER:HA	1.91	0.53
1:c:120:ALA:O	1:c:161:GLU:HA	2.08	0.53
1:g:600:ARG:NH1	1:g:622:ALA:HB3	2.23	0.53
1:g:755:THR:HG21	1:h:761:ARG:HG2	1.89	0.53
1:i:2:ALA:HB3	1:i:46:ALA:O	2.09	0.53
1:i:566:ASP:OD2	1:i:569:GLY:HA3	2.08	0.53
1:j:152:ILE:HD13	1:j:152:ILE:H	1.74	0.53
1:k:384:GLN:NE2	1:k:384:GLN:H	2.07	0.53
1:k:605:GLY:O	1:k:623:ARG:HB2	2.09	0.53
1:l:61:VAL:HG13	1:l:65:VAL:CG2	2.39	0.53
1:l:155:LYS:HZ2	1:l:155:LYS:HB2	1.72	0.53
1:B:5:GLU:CG	1:B:43:VAL:HG21	2.39	0.53
1:B:481:VAL:HG11	1:B:487:VAL:HG13	1.90	0.53
1:D:729:ARG:HB2	1:D:729:ARG:HH11	1.74	0.53
1:F:359:ILE:N	1:F:359:ILE:CD1	2.72	0.53
1:G:63:ASN:O	1:G:111:PRO:HG3	2.09	0.53
1:G:73:VAL:H	1:G:84:ARG:HB2	1.74	0.53
1:H:229:LEU:HD23	1:H:266:GLU:HA	1.89	0.53
1:H:260:VAL:HB	1:H:263:VAL:CA	2.37	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: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
1:K:526:VAL:HG22	1:K:540:GLN:HG2	1.89	0.53
1:L:311:GLN:HB2	1:L:314:GLU:CG	2.39	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:R:522:PHE:C	1:R:522:PHE:HD2	2.17	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:U:273:ILE:HG13	1:U:308:PHE:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:16:ILE:HA	1:Y:34:THR:OG1	2.08	0.53
1:Y:221:LEU:HD22	1:Y:256:THR:HG21	1.90	0.53
1:a:171:ASN:O	1:a:216:VAL:HG12	2.09	0.53
1:b:243:HIS:HE2	1:b:249:TRP:CG	2.26	0.53
1:c:130:GLU:CB	1:c:136:LYS:HA	2.38	0.53
1:d:382:LEU:H	1:d:405:THR:HG22	1.74	0.53
1:e:190:ARG:O	1:e:191:VAL:HG23	2.09	0.53
1:e:752:ALA:HA	1:e:755:THR:HG22	1.91	0.53
1:f:337:LEU:HG	1:f:353:ALA:O	2.09	0.53
1:g:249:TRP:CD1	1:g:249:TRP:H	2.27	0.53
1:h:20:ASP:HB2	1:h:49:ARG:HD3	1.90	0.53
1:h:745:LYS:HE2	1:i:753:ILE:CD1	2.38	0.53
1:i:481:VAL:HG21	1:i:487:VAL:HG13	1.91	0.53
1:k:327:SER:CB	1:k:331:GLY:HA3	2.34	0.53
1:l:174:LEU:CB	1:l:198:VAL:HB	2.39	0.53
1:l:335:LYS:HB2	1:l:335:LYS:NZ	2.24	0.53
1:A:523:PHE:CD1	1:A:568:VAL:HG12	2.44	0.53
1:B:18:VAL:CG1	1:B:48:VAL:HG22	2.29	0.53
1:B:276:LEU:N	1:B:280:HIS:HB2	2.24	0.53
1:C:199:ARG:NH2	1:C:258:ALA:HB3	2.23	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:G:8:ILE:HG22	1:G:40:ASN:HD21	1.72	0.53
1:I:208:VAL:HG23	1:I:209:PHE:HD2	1.72	0.53
1:I:481:VAL:HG11	1:I:487:VAL:CG1	2.37	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:L:766:ARG:HD2	1:M:768:MET:HE1	1.91	0.53
1:L:796:LYS:HA	1:L:799:THR:HG22	1.90	0.53
1:M:535:ALA:HA	1:N:658:VAL:HG21	1.91	0.53
1:O:298:GLN:HG3	1:P:305:GLU:CD	2.33	0.53
1:P:506:LYS:HE2	1:P:524:THR:O	2.09	0.53
1:P:508:PRO:O	1:P:509:HIS:CD2	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:517:LEU:O	1:Q:545:TRP:HH2	1.92	0.53
1:T:90:ILE:HD12	1:T:154:GLN:HB3	1.91	0.53
1:T:115:VAL:HA	1:T:147:GLY:O	2.09	0.53
1:V:159:VAL:HG12	1:V:160:VAL:HG22	1.91	0.53
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:HD2	1:W:522:PHE:O	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:b:90:ILE:HD12	1:b:154:GLN:CB	2.38	0.53
1:d:196:TRP:HA	1:d:196:TRP:CE3	2.43	0.53
1:d:394:LYS:HG2	1:e:329:GLN:CG	2.30	0.53
1:d:419:LEU:CG	1:d:420:PRO:HD2	2.30	0.53
1:d:551:ASN:HB3	1:d:554:ASP:HB2	1.90	0.53
1:f:75:PHE:CZ	1:f:77:ILE:HG23	2.44	0.53
1:g:419:LEU:HD23	1:g:421:SER:H	1.73	0.53
1:g:511:ARG:HH22	1:g:517:LEU:HD11	1.74	0.53
1:g:522:PHE:C	1:g:522:PHE:HD2	2.17	0.53
1:i:279:ARG:O	1:i:323:VAL:N	2.37	0.53
1:m:803:GLY:CA	1:m:806:THR:HB	2.39	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:C:64:PRO:HA	1:C:111:PRO:HD2	1.91	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: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:H:396:GLY:CA	1:I:405:THR:HG23	2.39	0.53
1:H:587:THR:HG23	1:H:590:ASP:HB2	1.89	0.53
1:J:332:LEU:HD23	1:J:358:LEU:HD11	1.90	0.53
1:L:18:VAL:H	1:L:48:VAL:CG1	2.20	0.53
1:L:65:VAL:HG12	1:L:110:THR:HG22	1.91	0.53
1:M:239:ARG:NH2	1:M:257:GLU:HG2	2.24	0.53
1:N:5:GLU:HG2	1:N:43:VAL:CG2	2.39	0.53
1:N:279:ARG:O	1:N:323:VAL:N	2.38	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:Q:338:GLN:OE1	1:R:278:PRO:HB3	2.08	0.53
1:R:115:VAL:N	1:R:118:ASN:ND2	2.55	0.53
1:S:146:GLU:HA	1:S:146:GLU:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:529:ILE:C	1:S:529:ILE:CD1	2.79	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
1:U:223:GLU:HA	1:U:223:GLU:OE2	2.08	0.53
1:V:564:VAL:HG22	1:V:631:ASN:HB3	1.91	0.53
1:W:3:THR:HG22	1:W:50:MET:HE1	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:W:704:LYS:CD	1:X:712:MET:HB3	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:Y:15:TYR:CE2	1:Y:17:HIS:HB3	2.44	0.53
1:Z:18:VAL:CG1	1:Z:48:VAL:HG22	2.29	0.53
1:Z:120:ALA:O	1:Z:161:GLU:HA	2.09	0.53
1:Z:474:ARG:HA	1:a:385:ASN:OD1	2.09	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:228:HIS:NE2	1:a:248:GLU:OE1	2.41	0.53
1:a:354:GLY:C	1:b:328:GLU:HG3	2.33	0.53
1:a:394:LYS:HA	1:b:329:GLN:NE2	2.24	0.53
1:c:532:ALA:HB1	1:d:593:LYS:HE2	1.90	0.53
1:d:476:LYS:HE2	1:e:485:GLU:CG	2.34	0.53
1:e:284:ILE:HD13	1:e:300:ARG:O	2.09	0.53
1:e:285:LEU:HB2	1:e:315:ARG:HG2	1.91	0.53
1:e:382:LEU:HD11	1:e:388:ILE:HG12	1.90	0.53
1:f:337:LEU:HD23	1:f:337:LEU:H	1.72	0.53
1:g:580:ARG:HH22	1:h:595:SER:HB2	1.73	0.53
1:h:60:ILE:CD1	1:h:60:ILE:O	2.57	0.53
1:h:175:ARG:NE	1:h:263:VAL:HG22	2.23	0.53
1:h:284:ILE:HD11	1:h:300:ARG:HB3	1.91	0.53
1:h:388:ILE:HD12	1:h:388:ILE:O	2.09	0.53
1:h:579:VAL:CG1	1:h:599:ILE:HD12	2.36	0.53
1:i:1:MET:O	1:i:2:ALA:HB2	2.09	0.53
1:i:24:ASN:HD22	1:i:30:VAL:HB	1.74	0.53
1:j:184:ASP:HB3	1:j:187:GLY:O	2.09	0.53
1:j:698:GLU:OE2	1:j:698:GLU:HA	2.09	0.53
1:k:273:ILE:HD13	1:k:316:LEU:CD1	2.31	0.53
1:l:3:THR:CG2	1:l:50:MET:HE1	2.38	0.53
1:A:534:HIS:CD2	1:B:654:LEU:HG	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:10:ILE:HD12	1:C:10:ILE:H	1.73	0.52
1:C:249:TRP:N	1:C:249:TRP:CD1	2.77	0.52
1:D:522:PHE:C	1:D:522:PHE:CD2	2.88	0.52
1:E:65:VAL:HG12	1:E:110:THR:HG22	1.91	0.52
1:E:569:GLY:O	1:E:573:LYS:HB2	2.10	0.52
1:F:600:ARG:CZ	1:F:622:ALA:HB3	2.38	0.52
1:G:3:THR:CG2	1:G:50:MET:HE1	2.39	0.52
1:H:90:ILE:HD12	1:H:90:ILE:O	2.09	0.52
1:H:192:THR:HG23	1:I:202:GLY:HA3	1.89	0.52
1:I:558:ALA:O	1:I:561:LEU:HB2	2.09	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: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
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:R:426:LEU:C	1:R:428:ASN:H	2.18	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:V:398:VAL:HB	1:W:384:GLN:HE22	1.75	0.52
1:W:320:ILE:O	1:W:320:ILE:HD12	2.09	0.52
1:X:356:CYS:N	1:Y:328:GLU:OE2	2.42	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: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:660:LEU:HA	1:a:663:GLU:HB3	1.91	0.52
1:b:339:PRO:HD2	1:b:370:LYS:HB3	1.91	0.52
1:c:419:LEU:CD2	1:c:422:GLY:H	2.21	0.52
1:e:224:LYS:O	1:e:272:PRO:HD3	2.09	0.52
1:e:745:LYS:CG	1:f:753:ILE:HD11	2.30	0.52
1:f:234:ASN:N	1:f:234:ASN:HD22	2.06	0.52
1:g:60:ILE:HD11	1:g:95:ASP:O	2.08	0.52
1:g:476:LYS:HE2	1:h:485:GLU:CG	2.39	0.52
1:h:2:ALA:HB3	1:h:46:ALA:O	2.09	0.52
1:i:119:THR:HG23	1:i:163:ILE:HG23	1.90	0.52
1:i:239:ARG:HH21	1:i:257:GLU:HG2	1.75	0.52
1:i:354:GLY:C	1:j:328:GLU:HG3	2.34	0.52
1:k:330:GLN:OE1	1:k:330:GLN:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:379:ALA:HB2	1:k:407:MET:HB3	1.91	0.52
1:A:183:PHE:HE2	1:A:188:LYS:HA	1.75	0.52
1:C:100:TYR:HD2	1:C:101:PRO:HD3	1.73	0.52
1:C:354:GLY:C	1:D:328:GLU:HG3	2.34	0.52
1:D:43:VAL:HG12	1:D:45:PHE:O	2.09	0.52
1:E:20:ASP:HB2	1:E:49:ARG:HD3	1.92	0.52
1:E:243:HIS:HE2	1:E:249:TRP:CG	2.27	0.52
1:E:497:VAL:HG12	1:E:498:LEU:H	1.73	0.52
1:F:22:ASN:HD21	1:G:39:ASP:HB3	1.74	0.52
1:F:382:LEU:HD13	1:F:387:GLY:HA2	1.91	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:HG2	1.91	0.52
1:G:653:ALA:CB	1:H:662:ILE:CD1	2.83	0.52
1:I:182:CYS:SG	1:I:208:VAL:CG2	2.97	0.52
1:J:398:VAL:HG11	1:J:415:TRP:CD2	2.44	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:L:517:LEU:H	1:L:517:LEU:HD12	1.74	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
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:522:PHE:C	1:S:522:PHE:HD2	2.17	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:77:ILE:HG13	1:V:80:GLN:H	1.74	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: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:46:ALA:N	1:Z:47:PRO:HD3	2.23	0.52
1:Z:213:LEU:CD1	1:Z:214:ASP:H	2.22	0.52
1:Z:284:ILE:HD13	1:Z:284:ILE:N	2.24	0.52
1:a:180:LYS:HD2	1:a:208:VAL:HG12	1.90	0.52
1:b:8:ILE:HG22	1:b:40:ASN:ND2	2.23	0.52
1:b:20:ASP:CB	1:b:49:ARG:CD	2.84	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:185:ARG:HH22	1:c:207:ALA:HB3	1.74	0.52
1:c:465:ASN:HD22	1:c:520:PRO:HD2	1.75	0.52
1:c:681:GLU:HG3	1:c:685:ARG:HH21	1.73	0.52
1:d:481:VAL:HG11	1:d:487:VAL:HG13	1.91	0.52
1:e:261:PRO:HD2	1:e:264:TYR:HB2	1.90	0.52
1:e:383:ASP:OD1	1:e:383:ASP:N	2.41	0.52
1:e:532:ALA:HB1	1:f:593:LYS:HE2	1.90	0.52
1:f:468:VAL:HG12	1:f:469:GLN:N	2.24	0.52
1:g:32:PRO:HG2	1:h:11:PRO:HG3	1.92	0.52
1:g:337:LEU:HG	1:g:353:ALA:O	2.09	0.52
1:h:1:MET:O	1:h:2:ALA:HB2	2.09	0.52
1:h:333:LEU:O	1:h:359:ILE:HD13	2.09	0.52
1:h:511:ARG:HH22	1:h:517:LEU:HD11	1.75	0.52
1:i:310:LEU:H	1:i:310:LEU:HD12	1.74	0.52
1:j:120:ALA:O	1:j:161:GLU:HA	2.09	0.52
1:k:175:ARG:HA	1:k:196:TRP:O	2.10	0.52
1:k:273:ILE:HG13	1:k:308:PHE:HB3	1.91	0.52
1:k:273:ILE:CD1	1:k:316:LEU:HD21	2.39	0.52
1:A:64:PRO:HA	1:A:111:PRO:HD2	1.91	0.52
1:A:381:PRO:CA	1:A:405:THR:HG22	2.30	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:D:164:GLN:CD	1:D:204:TYR:HB2	2.34	0.52
1:F:123:LEU:HA	1:F:158:GLU:HA	1.91	0.52
1:G:15:TYR:CE2	1:G:17:HIS:HB3	2.45	0.52
1:G:276:LEU:N	1:G:280:HIS:HB2	2.24	0.52
1:G:279:ARG:HA	1:G:323:VAL:HG22	1.91	0.52
1:G:495:PHE:HB3	1:G:514:LEU:HD11	1.91	0.52
1:I:591:PHE:HZ	1:I:599:ILE:HD11	1.74	0.52
1:K:70:GLN:HB3	1:K:104:VAL:H	1.73	0.52
1:L:415:TRP:CH2	1:L:417:LYS:HB3	2.45	0.52
1:M:560:LYS:HD2	1:M:630:GLN:O	2.09	0.52
1:M:601:MET:HG2	1:M:622:ALA:CB	2.39	0.52
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:U:71:SER:OG	1:U:84:ARG:O	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:19:LEU:HA	1:V:32:PRO:CB	2.39	0.52
1:V:24:ASN:ND2	1:V:30:VAL:HB	2.19	0.52
1:W:151:TYR:HD2	1:W:152:ILE:HD13	1.73	0.52
1:Y:18:VAL:CG1	1:Y:48:VAL:HG22	2.33	0.52
1:Y:30:VAL:HG13	1:Y:74:LEU:HD11	1.92	0.52
1:Y:766:ARG:HG3	1:Z:772:TYR:CD1	2.44	0.52
1:Z:90:ILE:HD13	1:Z:90:ILE:H	1.73	0.52
1:Z:766:ARG:O	1:Z:770:LEU:HB2	2.09	0.52
1:c:245:THR:O	1:d:221:LEU:HD23	2.09	0.52
1:d:564:VAL:HG22	1:d:631:ASN:ND2	2.25	0.52
1:d:600:ARG:O	1:d:604:PHE:HD1	1.91	0.52
1:e:182:CYS:SG	1:e:208:VAL:HB	2.49	0.52
1:f:129:PHE:CE2	1:f:139:ALA:HA	2.44	0.52
1:g:276:LEU:O	1:g:277:GLY:C	2.52	0.52
1:g:394:LYS:CG	1:h:329:GLN:HG3	2.30	0.52
1:i:551:ASN:HB3	1:i:554:ASP:CB	2.40	0.52
1:j:252:THR:O	1:j:253:VAL:C	2.53	0.52
1:j:395:THR:HB	1:j:397:LYS:H	1.75	0.52
1:k:108:ASP:OD1	1:k:108:ASP:N	2.41	0.52
1:k:175:ARG:HE	1:k:263:VAL:CG2	2.10	0.52
1:k:417:LYS:O	1:k:418:GLU:HB2	2.08	0.52
1:l:191:VAL:HG12	1:l:194:GLU:HB2	1.92	0.52
1:l:327:SER:N	1:l:331:GLY:HA3	2.24	0.52
1:l:342:GLU:HA	1:l:350:SER:HA	1.91	0.52
1:A:252:THR:O	1:A:253:VAL:C	2.52	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:C:529:ILE:CD1	1:C:537:LEU:HB2	2.39	0.52
1:G:151:TYR:CD2	1:G:152:ILE:HD13	2.43	0.52
1:G:600:ARG:NH1	1:G:622:ALA:HB3	2.24	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:662:ILE:O	1:J:666:THR:HB	2.09	0.52
1:J:796:LYS:HA	1:J:799:THR:HG22	1.91	0.52
1:L:389:TYR:CE1	1:L:457:VAL:HA	2.45	0.52
1:L:572:CYS:O	1:L:573:LYS:C	2.53	0.52
1:L:752:ALA:O	1:L:756:GLU:HB2	2.09	0.52
1:O:30:VAL:HG13	1:O:74:LEU:HD11	1.90	0.52
1:O:251:VAL:HG23	1:O:254:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:70:GLN:HE21	1:P:104:VAL:HG12	1.73	0.52
1:P:183:PHE:HA	1:P:190:ARG:HD3	1.91	0.52
1:R:77:ILE:HG13	1:R:79:GLY:HA3	1.88	0.52
1:R:338:GLN:CB	1:R:339:PRO:HD3	2.40	0.52
1:T:58:TYR:CD1	1:T:99:LEU:HD12	2.43	0.52
1:U:5:GLU:HG2	1:U:43:VAL:CG2	2.39	0.52
1:U:526:VAL:HG22	1:U:540:GLN:HG2	1.92	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:65:VAL:CG1	1:a:110:THR:HG22	2.39	0.52
1:a:120:ALA:HB3	1:a:162:ILE:HG13	1.92	0.52
1:b:354:GLY:O	1:c:328:GLU:HB3	2.09	0.52
1:c:14:HIS:HB3	1:c:56:ARG:CB	2.40	0.52
1:c:330:GLN:OE1	1:c:330:GLN:HA	2.08	0.52
1:c:360:ARG:HG3	1:c:361:GLY:N	2.24	0.52
1:c:526:VAL:HG22	1:c:540:GLN:HG2	1.91	0.52
1:d:398:VAL:HG11	1:d:415:TRP:CD2	2.44	0.52
1:d:692:LYS:HG2	1:d:696:GLN:HE21	1.74	0.52
1:e:60:ILE:HG22	1:e:66:SER:HA	1.89	0.52
1:e:113:GLN:O	1:e:114:VAL:HG13	2.09	0.52
1:e:115:VAL:N	1:e:118:ASN:ND2	2.57	0.52
1:e:296:LEU:N	1:e:296:LEU:HD22	2.24	0.52
1:f:176:LEU:HB2	1:f:196:TRP:CB	2.36	0.52
1:f:291:ASP:C	1:f:293:LYS:H	2.16	0.52
1:f:327:SER:HB2	1:f:331:GLY:N	2.24	0.52
1:h:90:ILE:HD12	1:h:154:GLN:CB	2.39	0.52
1:j:230:ARG:HH11	1:j:230:ARG:HB3	1.74	0.52
1:j:284:ILE:HD12	1:j:287:PRO:HB3	1.90	0.52
1:k:54:PRO:CB	1:k:55:PRO:HD3	2.31	0.52
1:l:5:GLU:OE1	1:l:43:VAL:HG11	2.10	0.52
1:l:176:LEU:HB2	1:l:196:TRP:CB	2.36	0.52
1:B:36:ILE:O	1:B:36:ILE:HG13	2.10	0.52
1:B:340:LEU:HD23	1:B:353:ALA:H	1.75	0.52
1:B:469:GLN:HB3	1:B:496:THR:HG21	1.91	0.52
1:C:5:GLU:CG	1:C:43:VAL:HG21	2.39	0.52
1:E:417:LYS:O	1:E:418:GLU:HB2	2.09	0.52
1:F:591:PHE:CZ	1:F:599:ILE:HD11	2.45	0.52
1:G:310:LEU:HD12	1:G:310:LEU:H	1.73	0.52
1:H:3:THR:HG23	1:H:50:MET:HE1	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:J:338:GLN:HB2	1:J:339:PRO:HD3	1.92	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:K:146:GLU:HA	1:K:146:GLU:OE1	2.09	0.52
1:L:490:ASP:CG	1:L:491:PRO:HD2	2.33	0.52
1:M:92:LEU:HB2	1:M:94:GLN:HG2	1.92	0.52
1:M:766:ARG:HD2	1:N:768:MET:CE	2.39	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:Q:594:ASN:O	1:Q:595:SER:C	2.53	0.52
1:R:506:LYS:HE2	1:R:524:THR:O	2.10	0.52
1:X:59:CYS:C	1:X:60:ILE:HD13	2.34	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:128:ASP:C	1:a:129:PHE:HD1	2.18	0.52
1:b:215:LEU:HD12	1:b:259:HIS:NE2	2.25	0.52
1:b:234:ASN:HD22	1:b:234:ASN:N	2.08	0.52
1:c:70:GLN:HE21	1:c:104:VAL:HG12	1.74	0.52
1:c:121:LEU:HD12	1:c:145:PHE:HD2	1.73	0.52
1:c:122:HIS:CE1	1:c:207:ALA:HB1	2.44	0.52
1:c:175:ARG:HG3	1:c:215:LEU:HD23	1.90	0.52
1:d:243:HIS:NE2	1:d:249:TRP:CD2	2.76	0.52
1:f:580:ARG:HD2	1:g:640:VAL:O	2.08	0.52
1:h:387:GLY:HA3	1:h:402:ILE:HG22	1.90	0.52
1:h:522:PHE:CD2	1:h:522:PHE:C	2.88	0.52
1:i:653:ALA:HA	1:i:656:ARG:NH2	2.24	0.52
1:k:13:TYR:O	1:k:36:ILE:HD13	2.10	0.52
1:k:120:ALA:O	1:k:161:GLU:HA	2.09	0.52
1:k:419:LEU:HG	1:k:420:PRO:CD	2.21	0.52
1:l:15:TYR:CE2	1:l:17:HIS:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:123:LEU:HA	1:l:158:GLU:HA	1.92	0.52
1:l:243:HIS:NE2	1:l:249:TRP:CE2	2.77	0.52
1:l:380:ILE:HD12	1:l:406:TYR:O	2.10	0.52
1:l:398:VAL:HG12	1:l:491:PRO:HB3	1.92	0.52
1:m:10:ILE:CG2	1:m:11:PRO:HD2	2.40	0.52
1:B:481:VAL:HG11	1:B:487:VAL:HG11	1.91	0.52
1:C:334:LEU:C	1:C:335:LYS:HG3	2.35	0.52
1:D:342:GLU:HA	1:D:350:SER:HA	1.90	0.52
1:D:587:THR:HG23	1:D:590:ASP:CB	2.39	0.52
1:D:600:ARG:NH1	1:D:622:ALA:HB3	2.25	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:558:ALA:O	1:H:561:LEU:HB2	2.08	0.52
1:H:714:MET:HA	1:H:714:MET:HE3	1.92	0.52
1:I:185:ARG:HH22	1:I:207:ALA:HB3	1.74	0.52
1:I:549:LEU:HD12	1:I:552:ARG:HA	1.92	0.52
1:J:494:GLN:HA	1:J:494:GLN:NE2	2.24	0.52
1:K:417:LYS:O	1:K:418:GLU:HB2	2.09	0.52
1:M:8:ILE:HA	1:M:40:ASN:HD22	1.74	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:30:VAL:HG22	1:R:74:LEU:HD11	1.91	0.52
1:R:419:LEU:HD23	1:R:422:GLY:H	1.74	0.52
1:R:766:ARG:O	1:R:770:LEU:HB2	2.09	0.52
1:S:4:GLU:OE2	1:S:6:ALA:HB2	2.10	0.52
1:S:221:LEU:HD22	1:S:256:THR:HB	1.92	0.52
1:T:3:THR:CG2	1:T:50:MET:CE	2.86	0.52
1:T:9:ARG:NH1	1:T:36:ILE:HA	2.19	0.52
1:T:32:PRO:HG2	1:U:11:PRO:HG3	1.91	0.52
1:T:155:LYS:HZ3	1:T:155:LYS:HB2	1.74	0.52
1:U:19:LEU:HD23	1:U:32:PRO:HB2	1.92	0.52
1:U:184:ASP:OD2	1:U:209:PHE:HZ	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:SD	1:V:407:MET:N	2.77	0.52
1:V:527:ILE:CD1	1:V:539:LEU:HB2	2.40	0.52
1:Y:36:ILE:HG21	1:Y:99:LEU:HB2	1.90	0.52
1:Y:122:HIS:O	1:Y:159:VAL:N	2.36	0.52
1:Y:168:ILE:HD13	1:Y:172:GLN:CD	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:648:GLN:HE21	1:Z:648:GLN:CA	2.22	0.52
1:a:70:GLN:HB3	1:a:104:VAL:O	2.09	0.52
1:a:224:LYS:HA	1:a:272:PRO:HG3	1.91	0.52
1:b:7:ILE:O	1:b:41:GLU:HG3	2.09	0.52
1:b:18:VAL:O	1:b:32:PRO:HB3	2.10	0.52
1:b:256:THR:O	1:b:256:THR:HG23	2.09	0.52
1:c:396:GLY:HA3	1:d:405:THR:HG23	1.92	0.52
1:d:1:MET:O	1:d:2:ALA:HB2	2.09	0.52
1:d:177:ARG:HD3	1:d:195:GLU:OE2	2.10	0.52
1:e:472:ASP:HA	1:e:493:GLU:CB	2.37	0.52
1:e:687:ARG:O	1:e:691:GLN:HG3	2.10	0.52
1:f:563:SER:HB3	1:g:520:PRO:HG2	1.92	0.52
1:g:245:THR:O	1:h:221:LEU:HD23	2.08	0.52
1:h:123:LEU:CD2	1:h:143:TRP:HB2	2.40	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	2.43	0.52
1:i:276:LEU:O	1:i:277:GLY:C	2.52	0.52
1:j:14:HIS:ND1	1:j:36:ILE:HG22	2.24	0.52
1:j:115:VAL:O	1:j:118:ASN:HB3	2.09	0.52
1:k:1:MET:O	1:k:2:ALA:HB2	2.09	0.52
1:k:330:GLN:CB	1:k:379:ALA:HB3	2.38	0.52
1:k:395:THR:HB	1:k:397:LYS:H	1.75	0.52
1:k:715:ALA:HA	1:l:724:ALA:HB1	1.92	0.52
1:l:244:ARG:O	1:l:247:GLU:HB2	2.10	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:262:ASP:HB3	1:B:264:TYR:CE1	2.45	0.52
1:B:419:LEU:HD22	1:B:422:GLY:H	1.74	0.52
1:B:589:ASP:HB2	1:C:665:THR:HG21	1.92	0.52
1:B:719:THR:HG22	1:C:728:SER:HA	1.91	0.52
1:C:310:LEU:HD21	1:C:316:LEU:HG	1.92	0.52
1:C:327:SER:CA	1:C:331:GLY:HA3	2.40	0.52
1:C:796:LYS:HA	1:C:799:THR:CG2	2.39	0.52
1:E:302:VAL:HG21	1:E:308:PHE:HE2	1.75	0.52
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:J:65:VAL:HG12	1:J:110:THR:CG2	2.40	0.52
1:J:65:VAL:HG12	1:J:110:THR:HG22	1.91	0.52
1:J:196:TRP:HA	1:J:196:TRP:CE3	2.44	0.52
1:K:745:LYS:HG3	1:L:753:ILE:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:167:VAL:HG13	1:L:202:GLY:H	1.74	0.52
1:L:260:VAL:HB	1:L:263:VAL:HA	1.91	0.52
1:L:594:ASN:CB	1:L:598:ILE:HD13	2.40	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: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:182:CYS:SG	1:a:208:VAL:HG23	2.49	0.52
1:a:600:ARG:NH1	1:a:622:ALA:HB3	2.24	0.52
1:b:343:GLY:HA2	1:b:348:LYS:HA	1.92	0.52
1:c:14:HIS:NE2	1:c:16:ILE:CD1	2.72	0.52
1:c:18:VAL:CG1	1:c:48:VAL:HG22	2.31	0.52
1:c:326:LEU:CD1	1:c:359:ILE:HD12	2.40	0.52
1:c:523:PHE:CE1	1:c:568:VAL:HG12	2.44	0.52
1:c:696:GLN:O	1:c:699:ALA:HB3	2.09	0.52
1:c:712:MET:O	1:c:716:VAL:HG23	2.09	0.52
1:d:13:TYR:O	1:d:36:ILE:CD1	2.32	0.52
1:d:128:ASP:HB2	1:d:155:LYS:HB3	1.92	0.52
1:e:243:HIS:NE2	1:e:249:TRP:CD2	2.77	0.52
1:e:360:ARG:CG	1:e:361:GLY:N	2.72	0.52
1:f:109:ILE:HD12	1:f:153:PRO:HB2	1.90	0.52
1:g:408:LEU:H	1:g:408:LEU:HD12	1.74	0.52
1:g:485:GLU:HG2	1:g:486:LEU:N	2.24	0.52
1:g:532:ALA:HB2	1:g:584:ALA:O	2.09	0.52
1:g:551:ASN:HB3	1:g:554:ASP:HB3	1.92	0.52
1:h:115:VAL:HA	1:h:147:GLY:O	2.09	0.52
1:i:15:TYR:CE2	1:i:17:HIS:HB3	2.45	0.52
1:i:298:GLN:HG3	1:j:305:GLU:CD	2.34	0.52
1:j:152:ILE:HD13	1:j:152:ILE:N	2.24	0.52
1:j:589:ASP:HB2	1:k:665:THR:HG21	1.92	0.52
1:k:708:GLU:HG3	1:l:716:VAL:HG11	1.91	0.52
1:l:64:PRO:HA	1:l:111:PRO:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:175:ARG:HH21	1:l:263:VAL:HG13	1.74	0.52
1:l:286:ASP:HB3	1:l:296:LEU:HA	1.91	0.52
1:l:745:LYS:HG3	1:m:753:ILE:HD13	1.92	0.52
1:m:194:GLU:HG2	1:m:195:GLU:N	2.24	0.52
1:m:221:LEU:CD2	1:m:256:THR:CG2	2.86	0.52
1:m:273:ILE:HG12	1:m:310:LEU:CD1	2.40	0.52
1:A:795:PHE:O	1:A:799:THR:HG22	2.10	0.52
1:C:196:TRP:HA	1:C:196:TRP:HE3	1.75	0.52
1:F:276:LEU:O	1:F:277:GLY:C	2.53	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:176:LEU:HB2	1:H:196:TRP:HB2	1.92	0.52
1:H:230:ARG:HH11	1:H:230:ARG:HB3	1.75	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:98:PRO:C	1:L:99:LEU:HD12	2.34	0.52
1:M:227:LEU:O	1:M:250:LEU:HA	2.09	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:O:734:ARG:HG2	1:P:742:LEU:HD12	1.92	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:P:759:LEU:HD13	1:Q:768:MET:HG3	1.90	0.52
1:Q:17:HIS:CD2	1:Q:18:VAL:HG22	2.45	0.52
1:Q:68:ASP:O	1:Q:106:GLU:HB2	2.08	0.52
1:Q:341:GLU:OE1	1:Q:341:GLU:O	2.27	0.52
1:S:154:GLN:HG3	1:S:155:LYS:NZ	2.22	0.52
1:T:90:ILE:HD13	1:T:90:ILE:N	2.23	0.52
1:T:338:GLN:HB2	1:T:339:PRO:HD3	1.92	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:19:LEU:HA	1:a:32:PRO:HB2	1.91	0.52
1:b:771:ILE:HA	1:b:774:ARG:NH1	2.25	0.52
1:e:5:GLU:OE1	1:e:43:VAL:HG11	2.08	0.52
1:e:165:ALA:CB	1:e:174:LEU:HD11	2.39	0.52
1:e:174:LEU:HB2	1:e:198:VAL:HB	1.92	0.52
1:e:566:ASP:OD2	1:e:569:GLY:HA3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:223:GLU:OE2	1:f:223:GLU:HA	2.10	0.52
1:f:383:ASP:N	1:f:383:ASP:OD1	2.42	0.52
1:g:183:PHE:HA	1:g:190:ARG:HD3	1.90	0.52
1:g:191:VAL:HG13	1:g:192:THR:H	1.75	0.52
1:i:221:LEU:HD22	1:i:256:THR:HG21	1.91	0.52
1:i:327:SER:HB2	1:i:331:GLY:HA2	1.91	0.52
1:i:523:PHE:CD1	1:i:545:TRP:NE1	2.78	0.52
1:i:587:THR:HG23	1:i:590:ASP:HB2	1.90	0.52
1:j:9:ARG:NH1	1:j:36:ILE:HA	2.17	0.52
1:j:45:PHE:HB2	1:j:48:VAL:HG23	1.91	0.52
1:j:139:ALA:HB3	1:k:148:PRO:HB2	1.92	0.52
1:j:387:GLY:HA3	1:j:402:ILE:HG22	1.91	0.52
1:k:167:VAL:N	1:k:201:VAL:O	2.39	0.52
1:l:578:ARG:HB3	1:l:602:ALA:O	2.10	0.52
1:m:10:ILE:HG23	1:m:11:PRO:HD2	1.92	0.52
1:m:46:ALA:N	1:m:47:PRO:HD3	2.25	0.52
1:m:327:SER:HB2	1:m:331:GLY:HA2	1.90	0.52
1:A:67:ARG:HG2	1:A:108:ASP:HA	1.91	0.52
1:A:662:ILE:CD1	1:m:653:ALA:HB3	2.38	0.52
1:B:310:LEU:HD21	1:B:316:LEU:HG	1.91	0.52
1:C:2:ALA:HB3	1:C:46:ALA:O	2.10	0.52
1:D:8:ILE:HG22	1:D:40:ASN:ND2	2.25	0.52
1:D:185:ARG:HH22	1:D:207:ALA:HB3	1.75	0.52
1:D:326:LEU:HD13	1:D:360:ARG:HA	1.92	0.52
1:D:601:MET:HE3	1:D:606:PHE:HB3	1.91	0.52
1:E:587:THR:HG23	1:E:590:ASP:HB2	1.91	0.52
1:E:794:LYS:O	1:E:798:MET:HG2	2.09	0.52
1:E:796:LYS:O	1:E:799:THR:HG22	2.09	0.52
1:F:165:ALA:CB	1:F:174:LEU:HD11	2.40	0.52
1:G:360:ARG:HG3	1:G:361:GLY:N	2.25	0.52
1:I:415:TRP:CH2	1:I:417:LYS:HB3	2.45	0.52
1:J:54:PRO:HB2	1:J:55:PRO:CD	2.34	0.52
1:K:165:ALA:HB2	1:K:211:GLU:CD	2.35	0.52
1:L:426:LEU:HD21	1:L:495:PHE:HE1	1.75	0.52
1:M:18:VAL:H	1:M:48:VAL:CG1	2.20	0.52
1:M:243:HIS:NE2	1:M:249:TRP:CD2	2.74	0.52
1:M:288:MET:HE2	1:M:294:ASN:ND2	2.25	0.52
1:N:495:PHE:CB	1:N:514:LEU:HD11	2.37	0.52
1:O:653:ALA:HB3	1:P:662:ILE:HD11	1.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:573:LYS:HE3	1:R:522:PHE:CZ	2.45	0.52
1:R:137:VAL:CG2	1:R:138:MET:N	2.72	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
1:a:130:GLU:N	1:a:137:VAL:HG13	2.23	0.52
1:a:199:ARG:HH21	1:a:258:ALA:HB3	1.75	0.52
1:a:568:VAL:HG23	1:a:569:GLY:N	2.25	0.52
1:b:184:ASP:OD2	1:b:209:PHE:HZ	1.93	0.52
1:c:71:SER:H	1:c:88:GLN:HA	1.75	0.52
1:e:29:GLU:O	1:e:84:ARG:HD3	2.10	0.52
1:e:70:GLN:HB3	1:e:104:VAL:O	2.09	0.52
1:e:336:ALA:HA	1:e:356:CYS:CB	2.40	0.52
1:e:591:PHE:O	1:e:595:SER:N	2.43	0.52
1:f:245:THR:O	1:g:221:LEU:HD23	2.09	0.52
1:g:682:GLN:O	1:g:683:GLU:C	2.53	0.52
1:h:123:LEU:CG	1:h:143:TRP:HB2	2.40	0.52
1:h:334:LEU:HD23	1:h:357:TRP:O	2.09	0.52
1:i:662:ILE:O	1:i:666:THR:HB	2.10	0.52
1:k:14:HIS:HB2	1:k:56:ARG:CB	2.36	0.52
1:k:63:ASN:N	1:k:64:PRO:HD2	2.24	0.52
1:m:294:ASN:HD21	1:m:313:GLY:CA	2.23	0.52
1:m:326:LEU:CD2	1:m:333:LEU:HG	2.34	0.52
1:m:332:LEU:HD21	1:m:407:MET:HB3	1.88	0.52
1:m:698:GLU:OE2	1:m:698:GLU:HA	2.10	0.52
1:A:46:ALA:N	1:A:47:PRO:HD3	2.25	0.52
1:A:194:GLU:HG2	1:A:195:GLU:H	1.74	0.52
1:B:1:MET:O	1:B:2:ALA:HB2	2.10	0.52
1:B:185:ARG:HG3	1:B:206:PRO:HB3	1.90	0.52
1:C:326:LEU:HD13	1:C:360:ARG:HA	1.92	0.52
1:D:734:ARG:HH21	1:D:735:ILE:HD13	1.75	0.52
1:F:542:ALA:HB3	1:F:639:ASP:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:580:ARG:HH22	1:G:595:SER:HB2	1.75	0.52
1:G:18:VAL:N	1:G:48:VAL:HG13	2.13	0.52
1:G:108:ASP:OD1	1:G:108:ASP:N	2.42	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:183:PHE:HE2	1:K:188:LYS:HA	1.74	0.52
1:K:332:LEU:HD21	1:K:407:MET:HB2	1.89	0.52
1:L:176:LEU:HD23	1:L:211:GLU:HA	1.92	0.52
1:M:249:TRP:N	1:M:249:TRP:CD1	2.78	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:P:328:GLU:O	1:P:329:GLN:C	2.53	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:Y:273:ILE:HG23	1:Y:310:LEU:HD11	1.92	0.52
1:Y:518:LEU:HA	1:Y:547:PHE:HD1	1.75	0.52
1:Y:539:LEU:HD22	1:Y:643:VAL:HG22	1.92	0.52
1:Z:252:THR:O	1:Z:254:GLN:N	2.43	0.52
1:Z:545:TRP:HB2	1:Z:633:LEU:HD21	1.91	0.52
1:a:65:VAL:HG13	1:a:110:THR:HG22	1.92	0.52
1:c:182:CYS:SG	1:c:208:VAL:CG2	2.98	0.52
1:c:249:TRP:N	1:c:249:TRP:CD1	2.77	0.52
1:d:24:ASN:ND2	1:d:30:VAL:HB	2.23	0.52
1:e:473:TYR:HE1	1:e:494:GLN:HB2	1.76	0.52
1:e:811:ALA:C	1:e:813:ALA:H	2.18	0.52
1:f:239:ARG:HH21	1:f:257:GLU:HG2	1.75	0.52
1:g:221:LEU:HD22	1:g:256:THR:HG21	1.91	0.52
1:g:606:PHE:HA	1:g:622:ALA:HA	1.92	0.52
1:g:762:VAL:O	1:g:766:ARG:HB2	2.10	0.52
1:h:332:LEU:HD21	1:h:407:MET:HB2	1.91	0.52
1:h:339:PRO:HD2	1:h:370:LYS:HB3	1.92	0.52
1:h:398:VAL:HG11	1:h:415:TRP:CD2	2.45	0.52
1:h:532:ALA:HB1	1:i:593:LYS:HE2	1.92	0.52
1:i:175:ARG:HB2	1:i:213:LEU:O	2.10	0.52
1:j:108:ASP:OD1	1:j:108:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:10:ILE:CG2	1:k:11:PRO:HD2	2.40	0.52
1:l:18:VAL:H	1:l:48:VAL:CG1	2.14	0.52
1:l:159:VAL:HG12	1:l:160:VAL:HG22	1.91	0.52
1:l:654:LEU:CD1	1:m:662:ILE:HD12	2.26	0.52
1:m:542:ALA:HB3	1:m:639:ASP:HB2	1.92	0.52
1:m:729:ARG:HB2	1:m:729:ARG:NH1	2.24	0.52
1:A:706:LEU:HD23	1:m:697:SER:HA	1.93	0.51
1:A:762:VAL:O	1:A:766:ARG:HB2	2.10	0.51
1:B:14:HIS:HD1	1:B:36:ILE:HG22	1.75	0.51
1:C:109:ILE:CD1	1:C:153:PRO:CG	2.88	0.51
1:C:138:MET:HE1	1:D:148:PRO:HG3	1.92	0.51
1:D:220:ILE:HG13	1:D:256:THR:HA	1.91	0.51
1:D:759:LEU:HD21	1:E:765:VAL:HG22	1.90	0.51
1:E:490:ASP:O	1:E:492:GLU:N	2.43	0.51
1:G:61:VAL:HG13	1:G:65:VAL:HG23	1.93	0.51
1:G:100:TYR:HB3	1:G:101:PRO:CD	2.40	0.51
1:G:205:LEU:HD22	1:G:211:GLU:HB2	1.91	0.51
1:H:46:ALA:N	1:H:47:PRO:HD3	2.24	0.51
1:I:154:GLN:HG3	1:I:155:LYS:N	2.25	0.51
1:I:226:ALA:HB3	1:I:270:VAL:HG13	1.91	0.51
1:I:396:GLY:CA	1:J:405:THR:HG23	2.39	0.51
1:I:529:ILE:HD11	1:I:537:LEU:HB2	1.91	0.51
1:I:591:PHE:CZ	1:I:599:ILE:HD11	2.45	0.51
1:K:67:ARG:CG	1:K:108:ASP:HB3	2.39	0.51
1:K:262:ASP:HB3	1:K:264:TYR:CZ	2.45	0.51
1:L:342:GLU:HA	1:L:350:SER:HA	1.91	0.51
1:M:1:MET:O	1:M:2:ALA:HB2	2.11	0.51
1:M:377:ARG:NH1	1:M:408:LEU:O	2.43	0.51
1:M:387:GLY:HA3	1:M:402:ILE:HG22	1.92	0.51
1:N:2:ALA:HB3	1:N:46:ALA:O	2.09	0.51
1:N:29:GLU:O	1:N:84:ARG:NH1	2.41	0.51
1:N:224:LYS:O	1:N:272:PRO:HD3	2.10	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
1:R:116:LEU:HB3	1:R:117:PRO:CD	2.29	0.51
1:R:243:HIS:HE2	1:R:249:TRP:CG	2.26	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:9:ARG:CZ	1:W:15:TYR:HB3	2.40	0.51
1:W:221:LEU:CD2	1:W:256:THR:CB	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:529:ILE:HG22	1:W:580:ARG:HB2	1.91	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:Z:745:LYS:HG3	1:a:753:ILE:HD11	1.92	0.51
1:a:49:ARG:HH22	1:b:8:ILE:HD13	1.76	0.51
1:a:286:ASP:N	1:a:287:PRO:HD3	2.25	0.51
1:b:54:PRO:CB	1:b:55:PRO:HD3	2.33	0.51
1:b:67:ARG:CZ	1:b:108:ASP:HB3	2.40	0.51
1:b:419:LEU:HG	1:b:420:PRO:CD	2.35	0.51
1:c:60:ILE:HG22	1:c:66:SER:HB2	1.92	0.51
1:c:215:LEU:HD12	1:c:259:HIS:NE2	2.25	0.51
1:e:326:LEU:CD2	1:e:333:LEU:HG	2.37	0.51
1:e:398:VAL:N	1:f:384:GLN:OE1	2.42	0.51
1:e:623:ARG:CG	1:e:624:ASP:N	2.74	0.51
1:g:154:GLN:CG	1:g:155:LYS:HE3	2.39	0.51
1:g:213:LEU:CD1	1:g:214:ASP:H	2.23	0.51
1:g:408:LEU:HD12	1:g:408:LEU:N	2.26	0.51
1:h:130:GLU:CB	1:h:136:LYS:HA	2.39	0.51
1:h:311:GLN:N	1:h:314:GLU:HG3	2.26	0.51
1:h:338:GLN:OE1	1:i:278:PRO:HB2	2.09	0.51
1:i:17:HIS:CD2	1:i:18:VAL:HG22	2.45	0.51
1:j:327:SER:CB	1:j:331:GLY:HA3	2.39	0.51
1:j:476:LYS:HE2	1:k:485:GLU:HG3	1.92	0.51
1:k:326:LEU:HD13	1:k:360:ARG:HA	1.92	0.51
1:m:278:PRO:O	1:m:279:ARG:HB3	2.10	0.51
1:m:347:GLU:O	1:m:349:VAL:HG23	2.09	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:224:LYS:HA	1:B:272:PRO:HG3	1.91	0.51
1:C:28:VAL:HG12	1:C:30:VAL:HG23	1.92	0.51
1:E:230:ARG:HD3	1:E:246:GLY:O	2.10	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:175:ARG:NH2	1:H:263:VAL:HG13	2.25	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:J:3:THR:HG22	1:J:50:MET:HE2	1.91	0.51
1:J:227:LEU:HB2	1:J:251:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:235:PHE:CE1	1:K:237:ASP:HA	2.45	0.51
1:K:601:MET:HE3	1:K:606:PHE:HB3	1.91	0.51
1:L:18:VAL:N	1:L:48:VAL:HG13	2.21	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:P:682:GLN:NE2	1:Q:695:ASP:OD2	2.36	0.51
1:Q:506:LYS:HE2	1:Q:524:THR:O	2.09	0.51
1:R:334:LEU:HD12	1:R:377:ARG:NH2	2.25	0.51
1:S:729:ARG:HB2	1:S:729:ARG:HH11	1.75	0.51
1:T:72:SER:HB3	1:T:84:ARG:HH21	1.75	0.51
1:T:327:SER:N	1:T:331:GLY:HA3	2.24	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:Z:396:GLY:CA	1:a:405:THR:HG23	2.40	0.51
1:a:381:PRO:CA	1:a:405:THR:HG22	2.40	0.51
1:b:734:ARG:HH21	1:b:735:ILE:HD13	1.75	0.51
1:c:175:ARG:NE	1:c:263:VAL:HG22	2.25	0.51
1:d:180:LYS:C	1:d:182:CYS:N	2.68	0.51
1:d:255:ASP:OD2	1:d:257:GLU:HB3	2.10	0.51
1:d:311:GLN:N	1:d:314:GLU:HG3	2.25	0.51
1:d:697:SER:HA	1:e:706:LEU:HD23	1.92	0.51
1:e:10:ILE:HD12	1:e:10:ILE:H	1.76	0.51
1:e:230:ARG:HH11	1:e:230:ARG:HB3	1.75	0.51
1:e:481:VAL:HG11	1:e:487:VAL:CG1	2.40	0.51
1:f:4:GLU:OE2	1:f:6:ALA:HB2	2.10	0.51
1:f:36:ILE:O	1:f:36:ILE:HG13	2.10	0.51
1:f:194:GLU:HG2	1:f:195:GLU:H	1.74	0.51
1:f:465:ASN:HB3	1:f:519:GLY:HA3	1.91	0.51
1:h:130:GLU:HA	1:h:137:VAL:H	1.76	0.51
1:h:660:LEU:HA	1:h:663:GLU:HB2	1.91	0.51
1:h:745:LYS:CE	1:i:753:ILE:CD1	2.88	0.51
1:i:54:PRO:CB	1:i:55:PRO:HD3	2.33	0.51
1:i:85:HIS:NE2	1:i:102:GLY:HA3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:251:VAL:HG21	1:i:257:GLU:HG2	1.92	0.51
1:i:794:LYS:O	1:i:798:MET:HG2	2.09	0.51
1:m:130:GLU:HA	1:m:137:VAL:HG13	1.92	0.51
1:A:177:ARG:HB2	1:A:177:ARG:HH11	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:C:653:ALA:HB1	1:D:662:ILE:HD11	1.92	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:573:LYS:HE3	1:E:522:PHE:CZ	2.46	0.51
1:E:251:VAL:HG21	1:E:257:GLU:HG2	1.93	0.51
1:E:380:ILE:HD12	1:E:380:ILE:H	1.75	0.51
1:E:522:PHE:CD2	1:E:522:PHE:C	2.88	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:239:ARG:HH21	1:I:257:GLU:HG2	1.74	0.51
1:I:571:ALA:O	1:I:575:ILE:HG12	2.10	0.51
1:J:56:ARG:HH11	1:J:99:LEU:HD23	1.76	0.51
1:J:517:LEU:O	1:J:545:TRP:CH2	2.63	0.51
1:K:155:LYS:HB2	1:K:155:LYS:HZ2	1.75	0.51
1:M:398:VAL:HG11	1:M:415:TRP:CE3	2.44	0.51
1:N:281:TYR:CE1	1:N:321:GLN:HB2	2.44	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
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:b:19:LEU:C	1:b:49:ARG:HD3	2.35	0.51
1:b:472:ASP:HA	1:b:493:GLU:CB	2.40	0.51
1:d:505:PRO:HG2	1:d:507:ARG:NH1	2.25	0.51
1:e:734:ARG:HH21	1:e:735:ILE:CD1	2.22	0.51
1:f:123:LEU:HA	1:f:158:GLU:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:255:ASP:OD1	1:f:256:THR:N	2.44	0.51
1:i:64:PRO:HA	1:i:111:PRO:HD2	1.92	0.51
1:i:807:ILE:CD1	1:j:806:THR:HG21	2.40	0.51
1:j:394:LYS:HA	1:k:329:GLN:CD	2.34	0.51
1:k:338:GLN:CB	1:k:339:PRO:CD	2.87	0.51
1:k:692:LYS:HG2	1:k:696:GLN:HE21	1.75	0.51
1:l:67:ARG:HG2	1:l:108:ASP:HB3	1.92	0.51
1:l:676:GLU:HA	1:l:676:GLU:OE1	2.09	0.51
1:m:10:ILE:HD12	1:m:10:ILE:N	2.20	0.51
1:m:36:ILE:HG23	1:m:98:PRO:HB3	1.93	0.51
1:m:339:PRO:HD2	1:m:370:LYS:HB3	1.92	0.51
1:A:398:VAL:HB	1:B:384:GLN:HE22	1.75	0.51
1:A:551:ASN:HB3	1:A:554:ASP:CB	2.40	0.51
1:C:262:ASP:HB3	1:C:264:TYR:CE1	2.44	0.51
1:C:708:GLU:HG2	1:D:716:VAL:CG1	2.33	0.51
1:D:100:TYR:HB3	1:D:101:PRO:CD	2.41	0.51
1:D:185:ARG:HG3	1:D:206:PRO:CB	2.39	0.51
1:E:745:LYS:HG3	1:F:753:ILE:CD1	2.40	0.51
1:F:4:GLU:OE2	1:F:6:ALA:HB2	2.09	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:169:LYS:HG3	1:G:170:GLN:H	1.75	0.51
1:H:70:GLN:HG2	1:H:104:VAL:N	2.25	0.51
1:H:459:SER:CB	1:H:488:THR:HG22	2.37	0.51
1:I:458:VAL:CG1	1:I:489:LEU:HD12	2.40	0.51
1:J:85:HIS:NE2	1:J:102:GLY:HA3	2.25	0.51
1:J:418:GLU:OE2	1:J:452:ARG:NH1	2.43	0.51
1:L:56:ARG:NH1	1:L:99:LEU:HD23	2.17	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:M:46:ALA:H	1:M:47:PRO:HD3	1.75	0.51
1:M:182:CYS:SG	1:M:208:VAL:HG23	2.50	0.51
1:M:426:LEU:C	1:M:428:ASN:H	2.17	0.51
1:N:490:ASP:OD2	1:N:491:PRO:HD2	2.10	0.51
1:O:3:THR:H	1:O:50:MET:HE1	1.76	0.51
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:113:GLN:O	1:R:114:VAL:HG13	2.09	0.51
1:R:291:ASP:C	1:R:293:LYS:N	2.69	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:HE21	1:T:384:GLN:H	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:X:109:ILE:HD12	1:X:153:PRO:HB2	1.93	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:591:PHE:O	1:a:595:SER:N	2.43	0.51
1:b:19:LEU:HA	1:b:32:PRO:HB2	1.90	0.51
1:b:469:GLN:HB3	1:b:496:THR:CG2	2.40	0.51
1:b:526:VAL:HG22	1:b:540:GLN:HG2	1.93	0.51
1:b:627:VAL:HG22	1:b:634:VAL:HG22	1.92	0.51
1:c:130:GLU:HB2	1:c:136:LYS:CA	2.39	0.51
1:c:523:PHE:CD1	1:c:545:TRP:NE1	2.78	0.51
1:d:490:ASP:H	1:d:493:GLU:HG2	1.76	0.51
1:e:414:LEU:HB3	1:e:455:THR:HG21	1.93	0.51
1:f:2:ALA:HB3	1:f:46:ALA:O	2.10	0.51
1:g:30:VAL:HG13	1:g:74:LEU:HD11	1.91	0.51
1:g:127:LEU:HB3	1:h:64:PRO:HD3	1.91	0.51
1:g:417:LYS:HE3	1:g:491:PRO:O	2.11	0.51
1:h:167:VAL:HG13	1:h:201:VAL:O	2.10	0.51
1:j:8:ILE:HA	1:j:40:ASN:HD22	1.74	0.51
1:j:260:VAL:O	1:j:262:ASP:N	2.43	0.51
1:j:394:LYS:HA	1:k:329:GLN:NE2	2.25	0.51
1:m:518:LEU:HA	1:m:547:PHE:HD1	1.76	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	2.23	0.51
1:B:382:LEU:N	1:B:405:THR:HG22	2.25	0.51
1:D:766:ARG:HD3	1:E:772:TYR:HB2	1.93	0.51
1:E:230:ARG:HH11	1:E:230:ARG:HB3	1.76	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:G:18:VAL:HG23	1:G:33:LYS:O	2.09	0.51
1:G:175:ARG:NE	1:G:263:VAL:HG22	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:5:GLU:HG2	1:I:43:VAL:CG2	2.37	0.51
1:I:175:ARG:HH21	1:I:263:VAL:HG13	1.73	0.51
1:I:196:TRP:HA	1:I:196:TRP:CE3	2.44	0.51
1:J:758:GLU:O	1:J:762:VAL:HG23	2.10	0.51
1:K:180:LYS:C	1:K:182:CYS:N	2.67	0.51
1:K:719:THR:HG22	1:L:728:SER:HA	1.93	0.51
1:L:382:LEU:HB2	1:L:404:SER:O	2.11	0.51
1:M:4:GLU:OE2	1:M:6:ALA:HB2	2.10	0.51
1:M:333:LEU:HB2	1:M:359:ILE:HD11	1.93	0.51
1:N:260:VAL:CB	1:N:263:VAL:HA	2.31	0.51
1:O:5:GLU:HG2	1:O:43:VAL:CG2	2.40	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:564:VAL:O	1:O:564:VAL:HG23	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:77:ILE:CD1	1:R:79:GLY:HA3	2.40	0.51
1:R:276:LEU:N	1:R:280:HIS:HB2	2.25	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:60:ILE:HB	1:T:93:ALA:HA	1.92	0.51
1:T:506:LYS:HE2	1:T:524:THR:O	2.11	0.51
1:T:560:LYS:HD2	1:T:630:GLN:O	2.10	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:b:285:LEU:HD13	1:b:315:ARG:HH11	1.76	0.51
1:e:341:GLU:O	1:e:341:GLU:OE1	2.28	0.51
1:f:18:VAL:H	1:f:48:VAL:CG1	2.15	0.51
1:f:67:ARG:HG2	1:f:108:ASP:HB3	1.91	0.51
1:f:221:LEU:HD13	1:f:256:THR:HB	1.92	0.51
1:g:262:ASP:HB3	1:g:264:TYR:CE1	2.45	0.51
1:h:8:ILE:HA	1:h:40:ASN:HD22	1.75	0.51
1:h:13:TYR:O	1:h:36:ILE:HD13	2.10	0.51
1:h:327:SER:N	1:h:331:GLY:HA3	2.25	0.51
1:h:338:GLN:CB	1:h:339:PRO:CD	2.87	0.51
1:i:389:TYR:CZ	1:i:457:VAL:HA	2.46	0.51
1:j:64:PRO:HA	1:j:111:PRO:HD2	1.92	0.51
1:j:660:LEU:HA	1:j:663:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:55:PRO:O	1:k:56:ARG:HG2	2.10	0.51
1:l:327:SER:CB	1:l:331:GLY:HA3	2.39	0.51
1:l:335:LYS:HB2	1:l:335:LYS:HZ3	1.74	0.51
1:m:340:LEU:HD23	1:m:352:GLN:HA	1.93	0.51
1:m:495:PHE:CB	1:m:514:LEU:HD11	2.40	0.51
1:A:72:SER:HB3	1:A:84:ARG:HH21	1.76	0.51
1:B:67:ARG:HH21	1:B:107:LYS:CA	2.11	0.51
1:B:553:ASN:O	1:B:555:PRO:HD3	2.11	0.51
1:B:653:ALA:HB3	1:C:662:ILE:HD13	1.89	0.51
1:C:402:ILE:HG23	1:C:457:VAL:HG21	1.93	0.51
1:D:174:LEU:O	1:D:197:LEU:HA	2.09	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:220:ILE:C	1:E:222:THR:H	2.18	0.51
1:F:543:TYR:CD2	1:F:575:ILE:HD13	2.46	0.51
1:F:807:ILE:HD13	1:G:806:THR:HG21	1.92	0.51
1:G:121:LEU:HB2	1:G:145:PHE:HB3	1.91	0.51
1:G:337:LEU:HD22	1:G:357:TRP:HZ3	1.76	0.51
1:G:421:SER:O	1:G:425:GLU:OE2	2.28	0.51
1:H:279:ARG:O	1:H:323:VAL:N	2.38	0.51
1:J:9:ARG:NH1	1:J:37:ARG:H	2.08	0.51
1:J:227:LEU:HD13	1:J:229:LEU:HD21	1.91	0.51
1:K:230:ARG:HG2	1:K:248:GLU:HG2	1.92	0.51
1:K:568:VAL:HG23	1:K:569:GLY:H	1.76	0.51
1:M:338:GLN:CD	1:N:279:ARG:HB3	2.36	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:3:THR:HG22	1:Q:50:MET:CE	2.40	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: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:T:345:SER:C	1:T:347:GLU:H	2.19	0.51
1:U:785:GLN:HA	1:V:790:VAL:HG21	1.92	0.51
1:U:811:ALA:C	1:U:813:ALA:H	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:745:LYS:O	1:V:748:ALA:HB3	2.11	0.51
1:W:132:LYS:HZ2	1:W:152:ILE:HD12	1.74	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:220:ILE:C	1:Z:222:THR:H	2.19	0.51
1:Z:249:TRP:N	1:Z:249:TRP:CD1	2.79	0.51
1:a:217:ASP:OD1	1:a:257:GLU:O	2.29	0.51
1:c:53:VAL:HG11	1:c:56:ARG:HG3	1.92	0.51
1:c:230:ARG:HB3	1:c:230:ARG:NH1	2.25	0.51
1:d:8:ILE:HA	1:d:40:ASN:HD22	1.76	0.51
1:d:120:ALA:HB2	1:d:164:GLN:HE22	1.75	0.51
1:d:285:LEU:HB2	1:d:315:ARG:HG2	1.91	0.51
1:e:687:ARG:HG2	1:e:691:GLN:HE21	1.76	0.51
1:f:217:ASP:OD2	1:f:257:GLU:O	2.29	0.51
1:g:138:MET:HE1	1:h:148:PRO:HG3	1.92	0.51
1:g:704:LYS:HD2	1:h:712:MET:HB3	1.92	0.51
1:h:235:PHE:CE1	1:h:264:TYR:CE1	2.99	0.51
1:h:358:LEU:HD13	1:h:377:ARG:HH11	1.76	0.51
1:j:175:ARG:HH11	1:j:175:ARG:HB3	1.75	0.51
1:j:588:PHE:CE2	1:k:662:ILE:HD11	2.45	0.51
1:j:758:GLU:O	1:j:762:VAL:HG23	2.10	0.51
1:k:260:VAL:O	1:k:262:ASP:N	2.43	0.51
1:k:469:GLN:HB3	1:k:496:THR:HG21	1.92	0.51
1:k:523:PHE:CD1	1:k:545:TRP:NE1	2.79	0.51
1:l:220:ILE:C	1:l:222:THR:N	2.69	0.51
1:l:276:LEU:N	1:l:280:HIS:HB2	2.25	0.51
1:l:276:LEU:O	1:l:277:GLY:C	2.53	0.51
1:l:388:ILE:HD12	1:l:401:VAL:HB	1.92	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:53:VAL:HG11	1:B:56:ARG:HG3	1.93	0.51
1:D:5:GLU:HG2	1:D:43:VAL:CG2	2.40	0.51
1:E:221:LEU:HD12	1:E:253:VAL:CG1	2.40	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:L:137:VAL:CG2	1:L:138:MET:N	2.73	0.51
1:L:387:GLY:HA3	1:L:402:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:599:ILE:C	1:M:601:MET:H	2.19	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:36:ILE:HG21	1:Q:99:LEU:CD1	2.41	0.51
1:Q:230:ARG:HH11	1:Q:230:ARG:HB3	1.75	0.51
1:Q:330:GLN:HB3	1:Q:379:ALA:CB	2.32	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:OE1	1:R:328:GLU:CA	2.56	0.51
1:R:564:VAL:CG2	1:R:631:ASN:ND2	2.72	0.51
1:R:575:ILE:N	1:R:575:ILE:CD1	2.74	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:5:GLU:CG	1:U:43:VAL:HG21	2.41	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: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:20:ASP:HB2	1:a:49:ARG:HD3	1.92	0.51
1:b:326:LEU:HD11	1:b:359:ILE:HD13	1.91	0.51
1:c:70:GLN:O	1:c:70:GLN:HG3	2.09	0.51
1:d:490:ASP:CG	1:d:491:PRO:HD2	2.36	0.51
1:e:154:GLN:HG3	1:e:155:LYS:N	2.25	0.51
1:e:342:GLU:HA	1:e:350:SER:HA	1.91	0.51
1:e:623:ARG:HG3	1:e:624:ASP:N	2.21	0.51
1:f:90:ILE:N	1:f:90:ILE:CD1	2.69	0.51
1:f:227:LEU:HB2	1:f:251:VAL:HG13	1.92	0.51
1:f:294:ASN:ND2	1:f:313:GLY:HA3	2.25	0.51
1:j:46:ALA:N	1:j:47:PRO:HD3	2.26	0.51
1:j:196:TRP:CE3	1:j:196:TRP:HA	2.44	0.51
1:l:398:VAL:HB	1:m:384:GLN:HE22	1.76	0.51
1:m:18:VAL:O	1:m:32:PRO:HB3	2.11	0.51
1:m:234:ASN:HD22	1:m:234:ASN:N	2.08	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:D:230:ARG:HH11	1:D:230:ARG:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:PHE:CG	1:D:264:TYR:OH	2.64	0.51
1:E:46:ALA:N	1:E:47:PRO:HD3	2.26	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:653:ALA:HB3	1:H:662:ILE:CD1	2.41	0.51
1:G:729:ARG:CZ	1:G:729:ARG:HB2	2.40	0.51
1:I:164:GLN:CD	1:I:204:TYR:HB2	2.36	0.51
1:J:704:LYS:HD2	1:K:712:MET:HB3	1.93	0.51
1:K:419:LEU:CG	1:K:420:PRO:HD2	2.24	0.51
1:K:560:LYS:HD2	1:K:630:GLN:O	2.10	0.51
1:K:766:ARG:HD2	1:L:768:MET:HE1	1.93	0.51
1:L:65:VAL:CA	1:L:110:THR:HA	2.39	0.51
1:L:70:GLN:HB2	1:L:104:VAL:HG12	1.93	0.51
1:L:339:PRO:HD2	1:L:370:LYS:HB3	1.92	0.51
1:M:70:GLN:HB3	1:M:104:VAL:H	1.75	0.51
1:M:472:ASP:HA	1:M:493:GLU:CB	2.40	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:352:GLN:O	1:P:353:ALA:C	2.54	0.51
1:P:408:LEU:H	1:P:408:LEU:HD12	1.75	0.51
1:R:220:ILE:C	1:R:222:THR:N	2.64	0.51
1:S:120:ALA:O	1:S:161:GLU:HA	2.10	0.51
1:S:791:GLU:OE1	1:T:794:LYS:NZ	2.40	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:U:426:LEU:C	1:U:428:ASN:H	2.18	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:X:87:ASP:CG	1:X:88:GLN:H	2.19	0.51
1:Y:73:VAL:HG21	1:Y:82:ARG:HB2	1.93	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:Z:398:VAL:H	1:a:384:GLN:CD	2.18	0.51
1:Z:402:ILE:HD12	1:Z:402:ILE:O	2.10	0.51
1:Z:589:ASP:HB2	1:a:665:THR:HG21	1.91	0.51
1:c:22:ASN:ND2	1:d:39:ASP:HB3	2.26	0.51
1:c:328:GLU:CG	1:c:329:GLN:H	2.23	0.51
1:c:511:ARG:NH2	1:c:517:LEU:HD11	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:115:VAL:O	1:f:118:ASN:CB	2.58	0.51
1:f:220:ILE:HD12	1:f:252:THR:HA	1.93	0.51
1:g:224:LYS:HA	1:g:272:PRO:HG3	1.92	0.51
1:h:262:ASP:HB3	1:h:264:TYR:CZ	2.46	0.51
1:i:224:LYS:O	1:i:272:PRO:HD3	2.11	0.51
1:j:311:GLN:N	1:j:314:GLU:HG3	2.26	0.51
1:j:588:PHE:CD2	1:k:662:ILE:CD1	2.93	0.51
1:k:70:GLN:HB3	1:k:104:VAL:O	2.11	0.51
1:m:402:ILE:H	1:m:402:ILE:HD13	1.75	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	1.92	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:C:533:ASP:OD1	1:C:587:THR:HA	2.11	0.51
1:D:90:ILE:CG2	1:D:154:GLN:HB2	2.41	0.51
1:E:551:ASN:HB3	1:E:554:ASP:HB3	1.92	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:22:ASN:ND2	1:H:39:ASP:HB3	2.26	0.51
1:G:383:ASP:N	1:G:383:ASP:OD1	2.44	0.51
1:H:226:ALA:HB3	1:H:270:VAL:CG1	2.41	0.51
1:J:226:ALA:HB3	1:J:270:VAL:HG13	1.93	0.51
1:K:3:THR:H	1:K:50:MET:HE1	1.76	0.51
1:L:123:LEU:HD11	1:L:143:TRP:HD1	1.75	0.51
1:M:61:VAL:HG13	1:M:65:VAL:CG2	2.41	0.51
1:M:161:GLU:CD	1:M:161:GLU:H	2.18	0.51
1:N:719:THR:HG22	1:O:728:SER:CA	2.41	0.51
1:O:579:VAL:HG13	1:O:599:ILE:HD12	1.93	0.51
1:P:281:TYR:C	1:P:281:TYR:CD1	2.88	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:NE2	1:S:494:GLN:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:W:252:THR:O	1:W:253:VAL:C	2.54	0.51
1:X:1:MET:O	1:X:2:ALA:HB2	2.11	0.51
1:X:60:ILE:HB	1:X:93:ALA:HA	1.93	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:Y:130:GLU:H	1:Y:137:VAL:HG12	1.75	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:Z:243:HIS:NE2	1:Z:249:TRP:CD2	2.77	0.51
1:a:17:HIS:CD2	1:a:18:VAL:HG22	2.45	0.51
1:b:268:LEU:CD1	1:b:269:GLY:H	2.21	0.51
1:b:596:ALA:O	1:b:600:ARG:HB2	2.11	0.51
1:c:382:LEU:N	1:c:405:THR:HG22	2.26	0.51
1:d:14:HIS:HE2	1:d:16:ILE:CD1	2.20	0.51
1:d:119:THR:HG23	1:d:163:ILE:HG23	1.92	0.51
1:d:159:VAL:HG12	1:d:160:VAL:HG22	1.93	0.51
1:f:100:TYR:HB3	1:f:101:PRO:HD2	1.91	0.51
1:f:221:LEU:HD22	1:f:256:THR:CB	2.41	0.51
1:f:354:GLY:HA3	1:g:328:GLU:HG3	1.91	0.51
1:f:517:LEU:H	1:f:517:LEU:CD1	2.13	0.51
1:f:535:ALA:HA	1:g:658:VAL:HG21	1.93	0.51
1:g:108:ASP:OD1	1:g:108:ASP:N	2.43	0.51
1:i:227:LEU:HD13	1:i:229:LEU:HD21	1.92	0.51
1:i:472:ASP:HA	1:i:493:GLU:HB3	1.93	0.51
1:j:244:ARG:O	1:j:247:GLU:HB2	2.10	0.51
1:j:276:LEU:O	1:j:277:GLY:C	2.54	0.51
1:j:495:PHE:HB3	1:j:514:LEU:HD11	1.92	0.51
1:k:262:ASP:OD2	1:k:262:ASP:O	2.29	0.51
1:k:319:GLY:C	1:k:320:ILE:HD13	2.35	0.51
1:m:169:LYS:CG	1:m:170:GLN:H	2.23	0.51
1:m:419:LEU:HD23	1:m:421:SER:H	1.76	0.51
1:B:159:VAL:HG12	1:B:160:VAL:HG22	1.93	0.51
1:B:523:PHE:CD1	1:B:568:VAL:HG12	2.46	0.51
1:C:77:ILE:HG13	1:C:80:GLN:H	1.76	0.51
1:D:500:LEU:HA	1:D:566:ASP:OD1	2.11	0.51
1:E:623:ARG:CG	1:E:624:ASP:H	2.24	0.51
1:E:796:LYS:HA	1:E:799:THR:CG2	2.39	0.51
1:F:185:ARG:HG3	1:F:206:PRO:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1:MET:O	1:H:2:ALA:HB2	2.10	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:8:ILE:HG22	1:I:40:ASN:ND2	2.25	0.51
1:I:332:LEU:HD21	1:I:407:MET:HB3	1.93	0.51
1:J:239:ARG:HH21	1:J:257:GLU:HG2	1.76	0.51
1:J:281:TYR:CD2	1:J:366:VAL:HG13	2.46	0.51
1:K:523:PHE:CD1	1:K:545:TRP:NE1	2.79	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:L:796:LYS:O	1:L:799:THR:HG22	2.10	0.51
1:M:382:LEU:H	1:M:405:THR:HG22	1.75	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:3:THR:HG22	1:R:50:MET:CE	2.41	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:5:GLU:CG	1:S:43:VAL:HG21	2.40	0.51
1:S:177:ARG:H	1:S:212:VAL:HG23	1.76	0.51
1:S:243:HIS:HE2	1:S:249:TRP:CG	2.29	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
1:X:384:GLN:H	1:X:384:GLN:NE2	2.09	0.51
1:Z:5:GLU:O	1:Z:41:GLU:O	2.28	0.51
1:Z:332:LEU:HD11	1:Z:379:ALA:HB2	1.93	0.51
1:a:9:ARG:CZ	1:a:15:TYR:HB3	2.41	0.51
1:a:336:ALA:H	1:a:374:VAL:HG23	1.75	0.51
1:a:417:LYS:O	1:a:418:GLU:HB2	2.10	0.51
1:a:662:ILE:O	1:a:666:THR:HB	2.10	0.51
1:b:221:LEU:HD13	1:b:256:THR:HB	1.93	0.51
1:b:501:SER:HB3	1:b:507:ARG:O	2.11	0.51
1:b:766:ARG:HG3	1:c:772:TYR:CD1	2.46	0.51
1:c:58:TYR:CD1	1:c:99:LEU:HD12	2.45	0.51
1:c:759:LEU:HD22	1:d:768:MET:HG3	1.93	0.51
1:e:93:ALA:C	1:e:95:ASP:H	2.17	0.51
1:f:215:LEU:HD12	1:f:259:HIS:CE1	2.46	0.51
1:f:580:ARG:HH22	1:g:595:SER:HB2	1.76	0.51
1:g:151:TYR:HD2	1:g:152:ILE:HD13	1.74	0.51
1:g:159:VAL:HG12	1:g:160:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:191:VAL:HG13	1:g:192:THR:N	2.26	0.51
1:i:130:GLU:CB	1:i:136:LYS:HA	2.41	0.51
1:i:260:VAL:CB	1:i:263:VAL:HA	2.37	0.51
1:i:564:VAL:CG2	1:i:631:ASN:ND2	2.74	0.51
1:k:354:GLY:CA	1:l:328:GLU:HG3	2.40	0.51
1:A:415:TRP:CH2	1:A:417:LYS:HB3	2.45	0.50
1:B:587:THR:HG23	1:B:590:ASP:HB3	1.92	0.50
1:D:481:VAL:O	1:D:481:VAL:HG13	2.10	0.50
1:E:542:ALA:HB3	1:E:639:ASP:HB2	1.92	0.50
1:F:1:MET:O	1:F:2:ALA:HB2	2.11	0.50
1:F:729:ARG:HB2	1:F:729:ARG:CZ	2.41	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:517:LEU:O	1:H:545:TRP:HH2	1.93	0.50
1:H:543:TYR:HE2	1:H:575:ILE:HG21	1.74	0.50
1:H:762:VAL:O	1:H:766:ARG:HB2	2.11	0.50
1:I:251:VAL:HG23	1:I:254:GLN:NE2	2.26	0.50
1:J:243:HIS:HE2	1:J:249:TRP:CG	2.28	0.50
1:J:527:ILE:HD11	1:J:539:LEU:HB2	1.93	0.50
1:K:221:LEU:HD21	1:K:256:THR:HG21	1.92	0.50
1:K:291:ASP:C	1:K:293:LYS:N	2.68	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:HD22	1:O:296:LEU:N	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:77:ILE:HD11	1:R:79:GLY:HA3	1.93	0.50
1:R:244:ARG:O	1:R:247:GLU:HB2	2.12	0.50
1:T:229:LEU:HD23	1:T:266:GLU:HA	1.93	0.50
1:T:328:GLU:OE1	1:T:328:GLU:CA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:245:THR:C	1:Z:247:GLU:H	2.18	0.50
1:a:43:VAL:HG12	1:a:45:PHE:O	2.10	0.50
1:c:730:ALA:O	1:c:734:ARG:HB2	2.11	0.50
1:c:733:ALA:HA	1:c:736:GLU:HB2	1.93	0.50
1:d:339:PRO:HD2	1:d:370:LYS:HB3	1.92	0.50
1:e:384:GLN:H	1:e:384:GLN:NE2	2.09	0.50
1:e:777:LEU:HD11	1:f:783:LYS:HB2	1.93	0.50
1:f:65:VAL:CG1	1:f:110:THR:HG22	2.41	0.50
1:g:176:LEU:HA	1:g:210:GLU:O	2.11	0.50
1:h:234:ASN:ND2	1:h:245:THR:H	2.08	0.50
1:h:236:ARG:HB3	1:h:236:ARG:CZ	2.41	0.50
1:i:327:SER:N	1:i:331:GLY:HA3	2.26	0.50
1:j:337:LEU:O	1:j:337:LEU:HG	2.11	0.50
1:k:296:LEU:HD13	1:k:296:LEU:H	1.76	0.50
1:l:100:TYR:HB3	1:l:101:PRO:HD2	1.91	0.50
1:l:227:LEU:CB	1:l:251:VAL:HG12	2.39	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:D:164:GLN:HB3	1:D:204:TYR:HA	1.93	0.50
1:D:334:LEU:HD12	1:D:377:ARG:NH2	2.26	0.50
1:D:692:LYS:HG2	1:D:696:GLN:HE21	1.75	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:383:ASP:HB2	1:E:386:GLU:HG2	1.91	0.50
1:F:330:GLN:HB3	1:F:379:ALA:CB	2.30	0.50
1:F:337:LEU:HD23	1:F:337:LEU:N	2.27	0.50
1:J:416:GLU:HB2	1:J:454:LYS:HB3	1.92	0.50
1:K:29:GLU:O	1:K:84:ARG:HD3	2.11	0.50
1:K:70:GLN:O	1:K:70:GLN:HG3	2.11	0.50
1:K:184:ASP:HB2	1:K:189:GLY:O	2.10	0.50
1:K:580:ARG:HH22	1:L:595:SER:CB	2.24	0.50
1:L:70:GLN:CB	1:L:104:VAL:HG12	2.40	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:60:ILE:HD13	1:W:60:ILE:N	2.26	0.50
1:W:138:MET:HE1	1:X:148:PRO:HG3	1.93	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: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:77:ILE:HG12	1:Y:80:GLN:O	2.11	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:Z:391:GLN:HB2	1:Z:398:VAL:HG22	1.94	0.50
1:a:418:GLU:OE2	1:a:452:ARG:NH1	2.44	0.50
1:b:407:MET:N	1:b:407:MET:SD	2.84	0.50
1:c:36:ILE:HG21	1:c:99:LEU:HD13	1.94	0.50
1:c:255:ASP:OD1	1:c:256:THR:N	2.39	0.50
1:d:16:ILE:CD1	1:d:34:THR:HG21	2.40	0.50
1:d:70:GLN:HG2	1:d:104:VAL:HG12	1.92	0.50
1:d:799:THR:HG21	1:e:801:ALA:HB1	1.93	0.50
1:e:30:VAL:HA	1:e:74:LEU:HD11	1.93	0.50
1:e:164:GLN:CD	1:e:204:TYR:CB	2.84	0.50
1:f:320:ILE:O	1:f:320:ILE:HD12	2.11	0.50
1:f:359:ILE:H	1:f:359:ILE:HD13	1.77	0.50
1:f:394:LYS:HA	1:g:329:GLN:NE2	2.26	0.50
1:g:5:GLU:CG	1:g:43:VAL:HG21	2.39	0.50
1:g:123:LEU:CG	1:g:143:TRP:HB2	2.41	0.50
1:g:249:TRP:CD1	1:g:249:TRP:N	2.79	0.50
1:g:332:LEU:HD23	1:g:358:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:745:LYS:HG3	1:h:753:ILE:CD1	2.41	0.50
1:h:65:VAL:HG12	1:h:110:THR:HG22	1.93	0.50
1:i:469:GLN:HB3	1:i:496:THR:CG2	2.40	0.50
1:j:144:LEU:H	1:j:144:LEU:HD12	1.76	0.50
1:j:660:LEU:HA	1:j:663:GLU:CB	2.41	0.50
1:k:18:VAL:N	1:k:48:VAL:HG13	2.17	0.50
1:k:174:LEU:O	1:k:197:LEU:HA	2.11	0.50
1:l:183:PHE:HE2	1:l:188:LYS:HA	1.76	0.50
1:m:3:THR:HG22	1:m:50:MET:HE1	1.93	0.50
1:A:70:GLN:HB3	1:A:104:VAL:H	1.76	0.50
1:A:70:GLN:HB3	1:A:105:LEU:H	1.75	0.50
1:A:116:LEU:CB	1:A:117:PRO:HD2	2.15	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:O	1:C:256:THR:HG23	2.12	0.50
1:C:771:ILE:HD13	1:C:774:ARG:HH11	1.72	0.50
1:D:794:LYS:O	1:D:798:MET:HG2	2.12	0.50
1:E:175:ARG:NE	1:E:263:VAL:HG22	2.15	0.50
1:E:228:HIS:NE2	1:E:312:PRO:HB3	2.26	0.50
1:F:557:GLU:HA	1:F:560:LYS:HB2	1.93	0.50
1:G:332:LEU:HD11	1:G:379:ALA:HB2	1.92	0.50
1:G:365:TYR:CE2	1:G:367:PRO:HA	2.47	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:1:MET:O	1:K:2:ALA:HB2	2.11	0.50
1:K:14:HIS:CB	1:K:56:ARG:CB	2.84	0.50
1:K:251:VAL:CG2	1:K:254:GLN:NE2	2.73	0.50
1:L:594:ASN:O	1:L:595:SER:C	2.54	0.50
1:M:398:VAL:HG11	1:M:415:TRP:CD2	2.46	0.50
1:N:318:ARG:O	1:N:319:GLY:C	2.54	0.50
1:P:8:ILE:HA	1:P:40:ASN:HD22	1.76	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:472:ASP:HB3	1:U:477:ARG:HB2	1.93	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:b:36:ILE:O	1:b:36:ILE:HG13	2.11	0.50
1:b:262:ASP:HB3	1:b:264:TYR:HE1	1.68	0.50
1:c:1:MET:O	1:c:2:ALA:HB2	2.11	0.50
1:c:273:ILE:HG21	1:c:316:LEU:HD11	1.93	0.50
1:c:395:THR:HB	1:c:397:LYS:HB3	1.94	0.50
1:d:490:ASP:O	1:d:491:PRO:C	2.54	0.50
1:d:501:SER:HA	1:d:507:ARG:O	2.12	0.50
1:e:737:GLY:HA3	1:f:746:LEU:HD13	1.93	0.50
1:f:549:LEU:HD12	1:f:552:ARG:HA	1.93	0.50
1:g:14:HIS:ND1	1:g:36:ILE:HG22	2.26	0.50
1:g:296:LEU:HD22	1:g:296:LEU:H	1.76	0.50
1:g:389:TYR:CZ	1:g:457:VAL:HA	2.47	0.50
1:j:19:LEU:HA	1:j:32:PRO:HB3	1.91	0.50
1:j:154:GLN:CG	1:j:155:LYS:HZ2	2.23	0.50
1:j:288:MET:HE3	1:j:294:ASN:ND2	2.26	0.50
1:l:154:GLN:HG3	1:l:155:LYS:HG3	1.93	0.50
1:l:180:LYS:C	1:l:182:CYS:N	2.69	0.50
1:l:785:GLN:HA	1:m:790:VAL:CG2	2.39	0.50
1:m:122:HIS:CE1	1:m:207:ALA:HB1	2.46	0.50
1:m:310:LEU:HD21	1:m:316:LEU:HG	1.93	0.50
1:A:7:ILE:O	1:A:41:GLU:HG3	2.11	0.50
1:A:176:LEU:HB2	1:A:196:TRP:HB2	1.93	0.50
1:C:11:PRO:HB2	1:C:12:PRO:HD3	1.93	0.50
1:C:338:GLN:OE1	1:D:278:PRO:HB2	2.11	0.50
1:C:539:LEU:HA	1:C:642:SER:O	2.12	0.50
1:E:43:VAL:HG12	1:E:45:PHE:O	2.11	0.50
1:E:276:LEU:N	1:E:280:HIS:HB2	2.26	0.50
1:F:398:VAL:HB	1:G:384:GLN:HE22	1.76	0.50
1:F:758:GLU:O	1:F:762:VAL:HG23	2.10	0.50
1:G:17:HIS:CD2	1:G:18:VAL:HG22	2.46	0.50
1:H:120:ALA:HB3	1:H:162:ILE:HG13	1.94	0.50
1:H:723:LYS:CG	1:I:735:ILE:HD11	2.42	0.50
1:I:398:VAL:HG11	1:I:415:TRP:CD2	2.47	0.50
1:J:284:ILE:HD13	1:J:284:ILE:N	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:ASP:O	1:K:106:GLU:HB2	2.10	0.50
1:K:115:VAL:O	1:K:118:ASN:CB	2.60	0.50
1:L:587:THR:HG23	1:L:590:ASP:HB3	1.92	0.50
1:N:1:MET:O	1:N:2:ALA:HB2	2.11	0.50
1:N:8:ILE:HG22	1:N:40:ASN:ND2	2.27	0.50
1:N:767:GLU:HG2	1:N:771:ILE:CD1	2.41	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:R:36:ILE:HD13	1:R:36:ILE:C	2.32	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:511:ARG:NH2	1:Z:517:LEU:HD11	2.22	0.50
1:a:221:LEU:HD21	1:a:256:THR:CG2	2.40	0.50
1:b:14:HIS:ND1	1:b:36:ILE:HG22	2.25	0.50
1:b:176:LEU:HA	1:b:210:GLU:O	2.11	0.50
1:b:276:LEU:O	1:b:277:GLY:C	2.55	0.50
1:b:452:ARG:HH22	1:b:458:VAL:HG22	1.75	0.50
1:b:517:LEU:H	1:b:517:LEU:HD12	1.75	0.50
1:c:15:TYR:CE2	1:c:17:HIS:HB3	2.47	0.50
1:c:74:LEU:HB2	1:c:100:TYR:CE2	2.47	0.50
1:c:224:LYS:HA	1:c:272:PRO:HG3	1.91	0.50
1:c:326:LEU:O	1:c:328:GLU:N	2.45	0.50
1:c:415:TRP:C	1:c:455:THR:HG22	2.37	0.50
1:c:542:ALA:HB3	1:c:639:ASP:HB2	1.94	0.50
1:d:123:LEU:HA	1:d:158:GLU:HA	1.93	0.50
1:d:184:ASP:HB2	1:d:189:GLY:O	2.11	0.50
1:d:407:MET:SD	1:d:407:MET:N	2.83	0.50
1:e:284:ILE:HD13	1:e:284:ILE:N	2.22	0.50
1:f:560:LYS:O	1:f:631:ASN:HA	2.12	0.50
1:g:46:ALA:H	1:g:47:PRO:HD3	1.75	0.50
1:g:358:LEU:HD13	1:g:377:ARG:HH11	1.77	0.50
1:g:564:VAL:HG21	1:g:631:ASN:ND2	2.26	0.50
1:j:165:ALA:HB2	1:j:211:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:184:ASP:HB2	1:k:189:GLY:O	2.12	0.50
1:k:276:LEU:O	1:k:277:GLY:C	2.53	0.50
1:k:276:LEU:N	1:k:280:HIS:HB2	2.25	0.50
1:k:522:PHE:C	1:k:522:PHE:CD2	2.88	0.50
1:k:526:VAL:HG22	1:k:540:GLN:HG2	1.93	0.50
1:l:281:TYR:CE1	1:l:321:GLN:HB2	2.46	0.50
1:l:554:ASP:C	1:l:554:ASP:OD2	2.54	0.50
1:m:121:LEU:HB2	1:m:145:PHE:HB3	1.94	0.50
1:A:24:ASN:ND2	1:A:30:VAL:HB	2.24	0.50
1:B:165:ALA:CB	1:B:174:LEU:HD11	2.41	0.50
1:C:1:MET:O	1:C:2:ALA:HB2	2.11	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
1:D:459:SER:HB3	1:D:488:THR:CG2	2.37	0.50
1:E:18:VAL:CG1	1:E:48:VAL:HG22	2.33	0.50
1:E:77:ILE:CG1	1:E:80:GLN:H	2.20	0.50
1:E:166:THR:HA	1:E:202:GLY:HA2	1.94	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:F:220:ILE:C	1:F:222:THR:N	2.67	0.50
1:F:239:ARG:NH2	1:F:257:GLU:HG2	2.26	0.50
1:F:398:VAL:N	1:G:384:GLN:OE1	2.43	0.50
1:G:326:LEU:HD21	1:G:333:LEU:HG	1.92	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:J:523:PHE:CD1	1:J:545:TRP:NE1	2.80	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:394:LYS:HG2	1:L:329:GLN:CG	2.38	0.50
1:K:504:ARG:HA	1:K:504:ARG:HH11	1.76	0.50
1:K:729:ARG:HB2	1:K:729:ARG:HH11	1.75	0.50
1:L:68:ASP:HA	1:L:90:ILE:HA	1.94	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:276:LEU:O	1:L:277:GLY:C	2.52	0.50
1:L:574:ALA:O	1:L:578:ARG:HG3	2.10	0.50
1:M:341:GLU:OE1	1:M:341:GLU:O	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:P:184:ASP:HB2	1:P:189:GLY:O	2.12	0.50
1:Q:6:ALA:HA	1:Q:41:GLU:O	2.11	0.50
1:Q:30:VAL:HG13	1:Q:74:LEU:HD11	1.92	0.50
1:Q:220:ILE:C	1:Q:222:THR:N	2.66	0.50
1:Q:766:ARG:HG2	1:R:772:TYR:CD1	2.46	0.50
1:R:587:THR:HG23	1:R:590:ASP:HB2	1.93	0.50
1:S:154:GLN:HG3	1:S:155:LYS:CE	2.41	0.50
1:V:19:LEU:HA	1:V:32:PRO:HB3	1.94	0.50
1:V:122:HIS:O	1:V:159:VAL:N	2.38	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:49:ARG:HH22	1:a:8:ILE:CD1	2.23	0.50
1:Z:387:GLY:HA3	1:Z:402:ILE:HG22	1.93	0.50
1:a:90:ILE:HD13	1:a:90:ILE:H	1.76	0.50
1:a:268:LEU:HD13	1:a:269:GLY:H	1.77	0.50
1:a:276:LEU:O	1:a:277:GLY:C	2.54	0.50
1:a:459:SER:CB	1:a:488:THR:HG22	2.30	0.50
1:b:164:GLN:CD	1:b:204:TYR:HB3	2.36	0.50
1:b:310:LEU:HD21	1:b:316:LEU:HG	1.92	0.50
1:d:380:ILE:CD1	1:d:388:ILE:HD13	2.29	0.50
1:e:165:ALA:HB3	1:e:174:LEU:HD11	1.93	0.50
1:g:358:LEU:HD13	1:g:377:ARG:NH1	2.26	0.50
1:h:36:ILE:HG21	1:h:99:LEU:H	1.77	0.50
1:h:58:TYR:CD1	1:h:98:PRO:HA	2.46	0.50
1:h:415:TRP:CH2	1:h:417:LYS:HB3	2.47	0.50
1:i:76:ASP:CG	1:i:81:VAL:HA	2.37	0.50
1:i:121:LEU:HD12	1:i:145:PHE:HD2	1.76	0.50
1:i:469:GLN:O	1:i:496:THR:HB	2.10	0.50
1:j:154:GLN:HG3	1:j:155:LYS:CE	2.42	0.50
1:j:398:VAL:HG11	1:j:415:TRP:CE3	2.46	0.50
1:k:114:VAL:CB	1:k:118:ASN:HD21	2.24	0.50
1:k:120:ALA:HB2	1:k:164:GLN:NE2	2.27	0.50
1:m:2:ALA:HB3	1:m:46:ALA:O	2.12	0.50
1:m:273:ILE:CD1	1:m:316:LEU:HD21	2.26	0.50
1:A:175:ARG:HE	1:A:263:VAL:HG22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:LYS:HD2	1:A:208:VAL:HG12	1.93	0.50
1:A:182:CYS:SG	1:A:208:VAL:HG23	2.50	0.50
1:A:279:ARG:O	1:A:323:VAL:N	2.42	0.50
1:A:543:TYR:CE2	1:A:575:ILE:HG21	2.46	0.50
1:B:16:ILE:HD13	1:B:34:THR:HG21	1.92	0.50
1:C:5:GLU:HG2	1:C:43:VAL:CG2	2.42	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: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:G:490:ASP:O	1:G:491:PRO:C	2.54	0.50
1:H:124:LYS:HG3	1:H:125:ALA:N	2.25	0.50
1:J:36:ILE:CD1	1:J:58:TYR:CE1	2.87	0.50
1:J:327:SER:HB2	1:J:331:GLY:N	2.26	0.50
1:K:285:LEU:HB2	1:K:315:ARG:HG2	1.93	0.50
1:L:249:TRP:N	1:L:249:TRP:CD1	2.80	0.50
1:L:296:LEU:N	1:L:296:LEU:HD22	2.27	0.50
1:M:234:ASN:N	1:M:234:ASN:HD22	2.09	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:M:662:ILE:O	1:M:666:THR:HB	2.12	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:377:ARG:NH1	1:S:408:LEU:O	2.45	0.50
1:T:8:ILE:HA	1:T:40:ASN:HD22	1.76	0.50
1:T:119:THR:HG23	1:T:163:ILE:HG23	1.93	0.50
1:U:419:LEU:HD23	1:U:422:GLY:H	1.75	0.50
1:U:755:THR:HG21	1:V:761:ARG:HG2	1.92	0.50
1:V:267:VAL:O	1:V:268:LEU:HB2	2.12	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:Z:296:LEU:HB2	1:a:274:THR:HG21	1.92	0.50
1:a:15:TYR:CE2	1:a:17:HIS:HB3	2.47	0.50
1:a:46:ALA:N	1:a:47:PRO:HD3	2.26	0.50
1:a:71:SER:OG	1:a:84:ARG:O	2.29	0.50
1:b:196:TRP:CE3	1:b:196:TRP:HA	2.46	0.50
1:b:426:LEU:C	1:b:428:ASN:H	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:337:LEU:HD23	1:c:337:LEU:N	2.26	0.50
1:d:60:ILE:HG13	1:d:92:LEU:O	2.12	0.50
1:d:399:ARG:HH11	1:d:399:ARG:HG2	1.76	0.50
1:d:709:LEU:HD23	1:d:712:MET:HE3	1.93	0.50
1:e:339:PRO:HG2	1:e:370:LYS:HE2	1.93	0.50
1:g:92:LEU:HD12	1:g:94:GLN:NE2	2.27	0.50
1:g:676:GLU:O	1:g:679:ARG:N	2.45	0.50
1:j:288:MET:CE	1:j:294:ASN:ND2	2.75	0.50
1:k:8:ILE:HD13	1:k:8:ILE:N	2.23	0.50
1:k:337:LEU:HD23	1:k:337:LEU:N	2.27	0.50
1:l:1:MET:O	1:l:2:ALA:HB2	2.12	0.50
1:l:73:VAL:N	1:l:84:ARG:HB2	2.22	0.50
1:l:115:VAL:HA	1:l:147:GLY:O	2.12	0.50
1:l:132:LYS:NZ	1:l:152:ILE:HD12	2.27	0.50
1:l:273:ILE:CG2	1:l:310:LEU:HD11	2.42	0.50
1:l:345:SER:C	1:l:347:GLU:H	2.20	0.50
1:l:533:ASP:OD1	1:l:588:PHE:N	2.39	0.50
1:l:653:ALA:HB3	1:m:662:ILE:CD1	2.37	0.50
1:A:58:TYR:CD1	1:A:98:PRO:HA	2.47	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:C:419:LEU:CD2	1:C:422:GLY:H	2.24	0.50
1:D:54:PRO:CB	1:D:55:PRO:HD3	2.26	0.50
1:D:135:ASP:C	1:D:136:LYS:HG3	2.36	0.50
1:D:459:SER:CB	1:D:488:THR:HG22	2.37	0.50
1:E:262:ASP:HB3	1:E:264:TYR:CE1	2.47	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:F:70:GLN:O	1:F:70:GLN:HG3	2.11	0.50
1:F:243:HIS:NE2	1:F:249:TRP:CE2	2.79	0.50
1:G:72:SER:HB3	1:G:84:ARG:HH21	1.76	0.50
1:H:472:ASP:CA	1:H:493:GLU:HB3	2.39	0.50
1:I:382:LEU:HD13	1:I:387:GLY:HA2	1.94	0.50
1:J:54:PRO:CB	1:J:55:PRO:HD3	2.36	0.50
1:J:452:ARG:HG3	1:J:452:ARG:HH11	1.75	0.50
1:K:155:LYS:HZ2	1:K:155:LYS:H	1.60	0.50
1:K:334:LEU:HD23	1:K:357:TRP:O	2.12	0.50
1:L:115:VAL:O	1:L:118:ASN:CB	2.49	0.50
1:L:194:GLU:HG2	1:L:195:GLU:H	1.76	0.50
1:M:388:ILE:H	1:M:388:ILE:HD13	1.77	0.50
1:N:769:GLU:HG2	1:N:769:GLU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:N	1:T:144:LEU:HD12	2.26	0.50
1:T:594:ASN:O	1:T:595:SER:C	2.55	0.50
1:V:709:LEU:HD23	1:V:712:MET:HE3	1.92	0.50
1:W:126:LEU:HB2	1:W:157:VAL:HG23	1.92	0.50
1:W:709:LEU:HA	1:W:712:MET:HE3	1.94	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:72:SER:HB3	1:a:84:ARG:NH2	2.12	0.50
1:a:310:LEU:HD21	1:a:316:LEU:HG	1.93	0.50
1:a:522:PHE:CD2	1:a:522:PHE:C	2.90	0.50
1:b:109:ILE:HD12	1:b:153:PRO:CB	2.41	0.50
1:b:751:LEU:O	1:b:755:THR:HB	2.12	0.50
1:c:327:SER:CB	1:c:331:GLY:HA3	2.42	0.50
1:d:30:VAL:HG13	1:d:74:LEU:HD11	1.93	0.50
1:d:104:VAL:HG22	1:d:105:LEU:H	1.75	0.50
1:d:180:LYS:HD2	1:d:208:VAL:HG12	1.93	0.50
1:d:332:LEU:HG	1:d:360:ARG:HB2	1.94	0.50
1:e:18:VAL:H	1:e:48:VAL:CG1	2.24	0.50
1:e:111:PRO:HB2	1:e:150:THR:HG21	1.92	0.50
1:e:507:ARG:HB2	1:e:510:ALA:HB2	1.92	0.50
1:f:206:PRO:HB2	1:f:209:PHE:CD2	2.47	0.50
1:f:234:ASN:ND2	1:f:245:THR:H	2.10	0.50
1:g:68:ASP:HA	1:g:90:ILE:HA	1.93	0.50
1:g:234:ASN:N	1:g:234:ASN:HD22	2.10	0.50
1:h:69:THR:HA	1:h:106:GLU:CB	2.42	0.50
1:h:426:LEU:C	1:h:428:ASN:H	2.19	0.50
1:j:285:LEU:HD13	1:j:315:ARG:HH11	1.76	0.50
1:j:294:ASN:ND2	1:j:313:GLY:HA3	2.27	0.50
1:j:311:GLN:CB	1:j:312:PRO:HD2	2.27	0.50
1:j:571:ALA:O	1:j:575:ILE:HG13	2.12	0.50
1:j:719:THR:O	1:j:723:LYS:HB2	2.11	0.50
1:k:398:VAL:HG11	1:k:415:TRP:CE3	2.46	0.50
1:l:338:GLN:HB2	1:l:339:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:770:LEU:HD21	1:m:776:GLN:HG3	1.94	0.50
1:m:803:GLY:HA3	1:m:806:THR:HB	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:543:TYR:CE2	1:C:575:ILE:HG21	2.46	0.50
1:D:415:TRP:CZ3	1:D:417:LYS:HB3	2.47	0.50
1:E:18:VAL:H	1:E:48:VAL:CG1	2.21	0.50
1:E:252:THR:O	1:E:254:GLN:N	2.45	0.50
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:G:8:ILE:HA	1:G:40:ASN:HD22	1.75	0.50
1:G:19:LEU:HA	1:G:32:PRO:HB2	1.93	0.50
1:H:251:VAL:HG23	1:H:254:GLN:NE2	2.18	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:M:389:TYR:HB2	1:M:415:TRP:O	2.12	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:Q:1:MET:O	1:Q:2:ALA:HB2	2.12	0.50
1:Q:452:ARG:HG3	1:Q:452:ARG:NH1	2.23	0.50
1:Q:714:MET:HA	1:Q:714:MET:HE3	1.92	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: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:S:327:SER:H	1:S:331:GLY:HA3	1.76	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:b:36:ILE:HG21	1:b:99:LEU:H	1.77	0.50
1:b:220:ILE:O	1:b:253:VAL:HG22	2.12	0.50
1:c:327:SER:HB2	1:c:331:GLY:HA3	1.94	0.50
1:c:336:ALA:HA	1:c:356:CYS:CB	2.41	0.50
1:d:543:TYR:CE2	1:d:575:ILE:HG21	2.46	0.50
1:e:230:ARG:HG2	1:e:248:GLU:HG2	1.93	0.50
1:e:398:VAL:HG11	1:e:415:TRP:CE3	2.47	0.50
1:f:1:MET:O	1:f:2:ALA:HB2	2.12	0.50
1:f:67:ARG:HH21	1:f:107:LYS:CA	2.21	0.50
1:f:120:ALA:O	1:f:161:GLU:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:165:ALA:HB3	1:f:174:LEU:HD11	1.93	0.50
1:f:573:LYS:HE3	1:g:522:PHE:CZ	2.47	0.50
1:g:5:GLU:HB2	1:g:41:GLU:OE1	2.12	0.50
1:g:14:HIS:HB3	1:g:56:ARG:HG3	1.93	0.50
1:g:601:MET:CG	1:g:622:ALA:HB2	2.41	0.50
1:g:794:LYS:O	1:g:798:MET:HG2	2.11	0.50
1:h:221:LEU:HD13	1:h:256:THR:HB	1.93	0.50
1:h:260:VAL:O	1:h:262:ASP:N	2.44	0.50
1:i:382:LEU:HB2	1:i:404:SER:O	2.11	0.50
1:k:56:ARG:HD2	1:k:99:LEU:HD21	1.93	0.50
1:k:326:LEU:O	1:k:328:GLU:CD	2.54	0.50
1:k:682:GLN:O	1:k:683:GLU:C	2.55	0.50
1:l:3:THR:CG2	1:l:50:MET:CE	2.90	0.50
1:l:217:ASP:OD1	1:l:218:ALA:N	2.45	0.50
1:l:354:GLY:C	1:m:328:GLU:HG3	2.37	0.50
1:l:649:ARG:HH21	1:m:655:GLN:HG2	1.77	0.50
1:m:335:LYS:HG2	1:m:373:VAL:HA	1.93	0.50
1:m:627:VAL:HG22	1:m:634:VAL:HG22	1.94	0.50
1:A:67:ARG:HE	1:A:107:LYS:C	2.20	0.50
1:A:276:LEU:N	1:A:280:HIS:HB2	2.27	0.50
1:D:799:THR:HG21	1:E:801:ALA:HB1	1.93	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
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: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:522:PHE:CD2	1:I:522:PHE:C	2.90	0.50
1:I:605:GLY:HA3	1:I:623:ARG:HH21	1.77	0.50
1:J:24:ASN:ND2	1:J:30:VAL:HB	2.27	0.50
1:J:70:GLN:HB3	1:J:104:VAL:O	2.12	0.50
1:J:185:ARG:HG3	1:J:206:PRO:CB	2.42	0.50
1:K:587:THR:HG23	1:K:590:ASP:HB2	1.94	0.50
1:K:599:ILE:C	1:K:601:MET:N	2.67	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:O:580:ARG:HH22	1:P:595:SER:HB2	1.77	0.50
1:P:30:VAL:HG13	1:P:74:LEU:HD11	1.94	0.50
1:P:533:ASP:OD1	1:P:587:THR:HA	2.12	0.50
1:P:539:LEU:HD22	1:P:643:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:60:ILE:H	1:Q:60:ILE:CD1	2.19	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:328:GLU:O	1:Q:329:GLN:C	2.55	0.50
1:Q:523:PHE:CD1	1:Q:568:VAL:HG12	2.47	0.50
1:R:654:LEU:HD11	1:S:662:ILE:HG21	1.94	0.50
1:S:230:ARG:HH11	1:S:230:ARG:HB3	1.77	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:65:VAL:HA	1:V:110:THR:HA	1.94	0.50
1:V:605:GLY:O	1:V:623:ARG:HB2	2.12	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:63:ASN:N	1:a:64:PRO:HD2	2.27	0.50
1:a:679:ARG:HH21	1:a:680:LEU:HD21	1.77	0.50
1:a:697:SER:HA	1:b:706:LEU:HD23	1.93	0.50
1:b:332:LEU:HD21	1:b:407:MET:HB3	1.93	0.50
1:b:563:SER:HB3	1:c:520:PRO:HG3	1.94	0.50
1:b:766:ARG:O	1:b:770:LEU:HB2	2.12	0.50
1:c:11:PRO:HB2	1:c:12:PRO:HD3	1.94	0.50
1:c:795:PHE:O	1:c:799:THR:HG22	2.11	0.50
1:d:208:VAL:HG23	1:d:209:PHE:HD2	1.76	0.50
1:d:414:LEU:HD23	1:d:455:THR:CB	2.41	0.50
1:e:18:VAL:CG1	1:e:48:VAL:HG22	2.42	0.50
1:e:175:ARG:NH2	1:e:263:VAL:HG13	2.26	0.50
1:f:495:PHE:CB	1:f:514:LEU:HD11	2.42	0.50
1:f:655:GLN:O	1:f:658:VAL:HG12	2.12	0.50
1:i:109:ILE:HD12	1:i:153:PRO:HG2	1.94	0.50
1:j:11:PRO:HB2	1:j:12:PRO:HD3	1.93	0.50
1:j:151:TYR:HD2	1:j:152:ILE:CD1	2.23	0.50
1:j:243:HIS:NE2	1:j:249:TRP:CE2	2.80	0.50
1:k:540:GLN:O	1:k:641:GLN:HG2	2.11	0.50
1:l:122:HIS:HB3	1:l:160:VAL:H	1.76	0.50
1:l:165:ALA:O	1:l:203:ALA:O	2.30	0.50
1:l:168:ILE:HD12	1:l:172:GLN:CD	2.37	0.50
1:l:398:VAL:H	1:m:384:GLN:CD	2.19	0.50
1:m:283:VAL:HG22	1:m:301:VAL:HG12	1.93	0.50
1:A:60:ILE:HD13	1:A:93:ALA:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:332:LEU:HD11	1:B:379:ALA:HB2	1.94	0.49
1:C:360:ARG:HD2	1:C:407:MET:HG2	1.93	0.49
1:D:113:GLN:OE1	1:D:149:GLY:HA2	2.12	0.49
1:D:220:ILE:C	1:D:222:THR:H	2.20	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: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: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:H:124:LYS:HG2	1:H:157:VAL:O	2.12	0.49
1:I:10:ILE:HD13	1:I:13:TYR:CD2	2.47	0.49
1:I:46:ALA:N	1:I:47:PRO:HD3	2.27	0.49
1:I:65:VAL:HG12	1:I:110:THR:CG2	2.38	0.49
1:I:273:ILE:CD1	1:I:316:LEU:HD11	2.42	0.49
1:I:802:LEU:HD12	1:I:806:THR:HG22	1.94	0.49
1:L:221:LEU:CD2	1:L:256:THR:CG2	2.90	0.49
1:M:472:ASP:HB3	1:M:477:ARG:HB2	1.93	0.49
1:M:533:ASP:OD1	1:M:587:THR:HA	2.12	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:1:MET:O	1:R:2:ALA:HB2	2.11	0.49
1:R:164:GLN:NE2	1:R:204:TYR:HB3	2.26	0.49
1:R:249:TRP:N	1:R:249:TRP:CD1	2.80	0.49
1:R:279:ARG:O	1:R:323:VAL:N	2.36	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:W:345:SER:C	1:W:347:GLU:H	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1:MET:O	1:a:2:ALA:HB2	2.11	0.49
1:a:109:ILE:HD12	1:a:153:PRO:HB2	1.94	0.49
1:a:766:ARG:HD3	1:b:772:TYR:HB2	1.94	0.49
1:d:452:ARG:HG3	1:d:452:ARG:NH1	2.22	0.49
1:d:533:ASP:OD1	1:d:587:THR:HA	2.12	0.49
1:d:549:LEU:HD12	1:d:552:ARG:HA	1.94	0.49
1:e:10:ILE:HG23	1:e:11:PRO:HD2	1.94	0.49
1:e:415:TRP:CH2	1:e:417:LYS:HB3	2.46	0.49
1:e:589:ASP:HB2	1:f:665:THR:HG21	1.94	0.49
1:f:58:TYR:CD1	1:f:98:PRO:HA	2.46	0.49
1:f:717:GLU:O	1:f:721:ASN:HB2	2.11	0.49
1:g:120:ALA:O	1:g:161:GLU:HA	2.12	0.49
1:g:239:ARG:HH21	1:g:257:GLU:HG2	1.76	0.49
1:g:676:GLU:OE1	1:g:676:GLU:HA	2.11	0.49
1:h:324:TYR:O	1:h:365:TYR:N	2.34	0.49
1:h:476:LYS:HE2	1:i:485:GLU:OE1	2.12	0.49
1:i:220:ILE:O	1:i:253:VAL:HG22	2.11	0.49
1:j:167:VAL:HG22	1:j:201:VAL:O	2.12	0.49
1:j:288:MET:HE1	1:j:312:PRO:HG2	1.94	0.49
1:j:697:SER:HA	1:k:706:LEU:HD23	1.95	0.49
1:l:122:HIS:CG	1:l:159:VAL:HB	2.47	0.49
1:l:750:ALA:C	1:l:752:ALA:H	2.20	0.49
1:l:759:LEU:HD11	1:m:764:LYS:HB3	1.94	0.49
1:m:165:ALA:CB	1:m:174:LEU:HD11	2.42	0.49
1:A:8:ILE:HG22	1:A:40:ASN:HD21	1.76	0.49
1:A:217:ASP:HB2	1:A:258:ALA:HA	1.93	0.49
1:A:236:ARG:HB3	1:A:236:ARG:CZ	2.41	0.49
1:B:303:LYS:H	1:B:306:LYS:HZ2	1.58	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:337:LEU:HD22	1:E:357:TRP:CZ3	2.41	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:F:522:PHE:CD2	1:F:522:PHE:C	2.89	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:765:VAL:O	1:I:768:MET:HB2	2.12	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:L:311:GLN:HB2	1:L:314:GLU:HG3	1.95	0.49
1:N:18:VAL:H	1:N:48:VAL:CG1	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:227:LEU:O	1:N:250:LEU:HA	2.13	0.49
1:O:236:ARG:HB3	1:O:236:ARG:NH1	2.27	0.49
1:P:354:GLY:HA3	1:Q:328:GLU:OE2	2.11	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
1:Q:398:VAL:HG11	1:Q:415:TRP:CE3	2.47	0.49
1:Q:704:LYS:HD2	1:R:712:MET:HB3	1.93	0.49
1:R:119:THR:HG23	1:R:163:ILE:HG23	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:221:LEU:HD21	1:U:256:THR:HG21	1.94	0.49
1:U:252:THR:H	1:U:254:GLN:HE21	1.59	0.49
1:U:623:ARG:HG3	1:U:624:ASP:H	1.75	0.49
1:V:285:LEU:C	1:V:287:PRO:HD3	2.37	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:16:ILE:HB	1:Z:51:VAL:HB	1.94	0.49
1:Z:183:PHE:HE2	1:Z:188:LYS:O	1.95	0.49
1:a:125:ALA:HB1	1:a:128:ASP:HB3	1.94	0.49
1:b:533:ASP:OD1	1:b:587:THR:HA	2.12	0.49
1:c:19:LEU:HA	1:c:32:PRO:HB2	1.94	0.49
1:c:123:LEU:HG	1:c:143:TRP:HB2	1.93	0.49
1:c:220:ILE:C	1:c:222:THR:N	2.70	0.49
1:c:339:PRO:HD2	1:c:370:LYS:HB3	1.94	0.49
1:c:551:ASN:HB2	1:c:557:GLU:OE2	2.12	0.49
1:e:332:LEU:CD2	1:e:358:LEU:HD11	2.41	0.49
1:g:7:ILE:HD12	1:g:7:ILE:N	2.28	0.49
1:g:122:HIS:HB3	1:g:160:VAL:H	1.77	0.49
1:h:115:VAL:O	1:h:118:ASN:CB	2.57	0.49
1:h:745:LYS:CG	1:i:753:ILE:HD13	2.40	0.49
1:i:329:GLN:OE1	1:i:330:GLN:HB2	2.12	0.49
1:i:332:LEU:HD22	1:i:377:ARG:HD2	1.93	0.49
1:j:337:LEU:HD21	1:j:352:GLN:O	2.12	0.49
1:k:564:VAL:CG2	1:k:631:ASN:ND2	2.76	0.49
1:l:68:ASP:HA	1:l:90:ILE:HA	1.94	0.49
1:l:128:ASP:OD1	1:l:131:ASP:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:205:LEU:HD22	1:l:211:GLU:HB2	1.94	0.49
1:l:230:ARG:HB3	1:l:230:ARG:NH1	2.27	0.49
1:l:523:PHE:CD1	1:l:568:VAL:HG12	2.48	0.49
1:l:781:VAL:HG22	1:m:787:LEU:CD2	2.42	0.49
1:A:121:LEU:HB2	1:A:145:PHE:HB3	1.93	0.49
1:A:417:LYS:O	1:A:418:GLU:HB2	2.11	0.49
1:A:564:VAL:CG2	1:A:631:ASN:ND2	2.75	0.49
1:B:90:ILE:HG21	1:B:154:GLN:HB2	1.94	0.49
1:D:9:ARG:CZ	1:D:15:TYR:HB3	2.42	0.49
1:D:30:VAL:HG22	1:D:74:LEU:HD11	1.94	0.49
1:D:589:ASP:HB2	1:E:665:THR:HG21	1.94	0.49
1:F:10:ILE:HD13	1:F:13:TYR:CD2	2.48	0.49
1:F:70:GLN:HG2	1:F:104:VAL:N	2.27	0.49
1:F:327:SER:HB2	1:F:331:GLY:HA2	1.87	0.49
1:G:164:GLN:HB3	1:G:204:TYR:HA	1.94	0.49
1:G:194:GLU:HG2	1:G:195:GLU:N	2.27	0.49
1:G:415:TRP:CH2	1:G:417:LYS:HB3	2.47	0.49
1:G:594:ASN:O	1:G:595:SER:C	2.55	0.49
1:H:65:VAL:HG12	1:H:110:THR:CG2	2.42	0.49
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:H:260:VAL:C	1:H:262:ASP:N	2.70	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:J:551:ASN:CB	1:J:554:ASP:HB3	2.41	0.49
1:K:67:ARG:HH21	1:K:107:LYS:HA	1.77	0.49
1:L:17:HIS:CD2	1:L:18:VAL:HG22	2.47	0.49
1:L:164:GLN:CD	1:L:204:TYR:CB	2.82	0.49
1:L:175:ARG:HB2	1:L:213:LEU:O	2.12	0.49
1:L:417:LYS:O	1:L:418:GLU:HB2	2.12	0.49
1:M:113:GLN:O	1:M:114:VAL:HG13	2.12	0.49
1:M:208:VAL:HG23	1:M:209:PHE:HD2	1.77	0.49
1:N:164:GLN:HB3	1:N:204:TYR:HA	1.94	0.49
1:O:1:MET:O	1:O:2:ALA:HB2	2.12	0.49
1:O:16:ILE:HB	1:O:51:VAL:HB	1.93	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:70:GLN:O	1:Q:70:GLN:HG3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:697:SER:HA	1:T:706:LEU:HD23	1.94	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:U:13:TYR:HB3	1:U:54:PRO:O	2.13	0.49
1:U:69:THR:O	1:U:89:GLU:N	2.44	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: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:X:774:ARG:HG3	1:Y:779:LEU:HD21	1.94	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
1:Y:601:MET:HG3	1:Y:622:ALA:HB2	1.93	0.49
1:Z:30:VAL:HG13	1:Z:74:LEU:HD11	1.94	0.49
1:Z:180:LYS:O	1:Z:182:CYS:N	2.44	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:a:402:ILE:HD12	1:a:402:ILE:O	2.12	0.49
1:c:174:LEU:HB2	1:c:198:VAL:HB	1.93	0.49
1:c:228:HIS:NE2	1:c:312:PRO:HB3	2.27	0.49
1:c:335:LYS:HB2	1:c:335:LYS:NZ	2.26	0.49
1:c:587:THR:HG23	1:c:590:ASP:HB3	1.93	0.49
1:d:220:ILE:O	1:d:253:VAL:HG22	2.11	0.49
1:e:7:ILE:HD12	1:e:7:ILE:N	2.27	0.49
1:e:217:ASP:HB2	1:e:258:ALA:HA	1.92	0.49
1:e:533:ASP:OD1	1:e:587:THR:HA	2.12	0.49
1:e:759:LEU:HD11	1:f:764:LYS:HB3	1.94	0.49
1:f:524:THR:HG22	1:f:542:ALA:HB2	1.94	0.49
1:f:600:ARG:NH1	1:f:622:ALA:HB3	2.26	0.49
1:g:298:GLN:HG3	1:h:305:GLU:CD	2.37	0.49
1:g:325:VAL:HA	1:g:364:GLU:HA	1.93	0.49
1:h:16:ILE:HB	1:h:51:VAL:HB	1.94	0.49
1:h:184:ASP:HB2	1:h:189:GLY:O	2.13	0.49
1:i:476:LYS:HE3	1:j:485:GLU:HG3	1.95	0.49
1:i:481:VAL:HG11	1:i:487:VAL:HG11	1.93	0.49
1:i:600:ARG:HH12	1:i:622:ALA:HB3	1.77	0.49
1:j:185:ARG:HH22	1:j:207:ALA:HB3	1.77	0.49
1:k:763:LYS:O	1:k:767:GLU:HB2	2.13	0.49
1:l:8:ILE:HA	1:l:40:ASN:HD22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:623:ARG:HG2	1:l:624:ASP:H	1.76	0.49
1:m:159:VAL:HG12	1:m:160:VAL:HG22	1.94	0.49
1:m:337:LEU:HG	1:m:354:GLY:H	1.75	0.49
1:B:17:HIS:CD2	1:B:18:VAL:HG22	2.48	0.49
1:C:13:TYR:O	1:C:36:ILE:HG12	2.12	0.49
1:C:215:LEU:HB3	1:C:259:HIS:NE2	2.27	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:1:MET:O	1:D:2:ALA:HB2	2.12	0.49
1:D:417:LYS:O	1:D:418:GLU:HB2	2.11	0.49
1:F:273:ILE:HG23	1:F:310:LEU:HD11	1.94	0.49
1:F:803:GLY:HA3	1:F:806:THR:HB	1.94	0.49
1:G:16:ILE:HD13	1:G:34:THR:HG21	1.93	0.49
1:H:2:ALA:HB3	1:H:46:ALA:O	2.13	0.49
1:H:123:LEU:CG	1:H:143:TRP:HB2	2.42	0.49
1:H:176:LEU:HA	1:H:210:GLU:O	2.12	0.49
1:I:485:GLU:HG2	1:I:486:LEU:N	2.27	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:90:ILE:O	1:K:90:ILE:HD12	2.12	0.49
1:K:318:ARG:O	1:K:319:GLY:C	2.55	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:N:243:HIS:HE2	1:N:249:TRP:CG	2.30	0.49
1:N:329:GLN:OE1	1:N:330:GLN:HG2	2.12	0.49
1:N:649:ARG:HH21	1:O:655:GLN:HG2	1.77	0.49
1:O:120:ALA:HB2	1:O:164:GLN:NE2	2.28	0.49
1:O:394:LYS:HG2	1:P:329:GLN:HG3	1.94	0.49
1:O:519:GLY:O	1:O:521:ASP:N	2.44	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: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:20:ASP:HB2	1:R:49:ARG:HD3	1.93	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:U:714:MET:HE2	1:U:718:SER:OG	2.12	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:296:LEU:HD21	1:X:307:SER:HB3	1.95	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:X:36:ILE:O	1:X:36:ILE:HG13	2.12	0.49
1:X:426:LEU:C	1:X:428:ASN:H	2.19	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:49:ARG:NH2	1:b:8:ILE:HD13	2.25	0.49
1:a:245:THR:C	1:a:247:GLU:H	2.19	0.49
1:a:354:GLY:HA3	1:b:328:GLU:OE2	2.12	0.49
1:c:129:PHE:HA	1:c:137:VAL:HG22	1.92	0.49
1:c:217:ASP:OD1	1:c:257:GLU:O	2.30	0.49
1:c:332:LEU:HD11	1:c:379:ALA:HB2	1.94	0.49
1:d:260:VAL:CB	1:d:263:VAL:HA	2.36	0.49
1:e:297:GLY:O	1:f:276:LEU:HD22	2.12	0.49
1:g:36:ILE:O	1:g:36:ILE:HG13	2.12	0.49
1:g:57:HIS:O	1:g:99:LEU:HD11	2.13	0.49
1:g:217:ASP:HB2	1:g:258:ALA:HA	1.95	0.49
1:g:340:LEU:HG	1:g:353:ALA:H	1.78	0.49
1:g:533:ASP:OD1	1:g:587:THR:HA	2.13	0.49
1:h:326:LEU:CD2	1:h:333:LEU:HG	2.41	0.49
1:h:796:LYS:HA	1:h:799:THR:HG22	1.94	0.49
1:h:799:THR:HG21	1:i:801:ALA:HB1	1.94	0.49
1:i:182:CYS:SG	1:i:208:VAL:HG21	2.52	0.49
1:i:273:ILE:HG13	1:i:308:PHE:HB3	1.94	0.49
1:i:380:ILE:HD12	1:i:406:TYR:O	2.11	0.49
1:i:517:LEU:HD12	1:i:517:LEU:N	2.24	0.49
1:j:1:MET:O	1:j:2:ALA:HB2	2.13	0.49
1:j:24:ASN:HD22	1:j:30:VAL:HB	1.77	0.49
1:j:175:ARG:HA	1:j:196:TRP:O	2.12	0.49
1:j:354:GLY:O	1:k:328:GLU:HG3	2.11	0.49
1:k:18:VAL:H	1:k:48:VAL:CG1	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:155:LYS:HZ2	1:k:155:LYS:H	1.58	0.49
1:l:117:PRO:O	1:l:118:ASN:C	2.55	0.49
1:l:294:ASN:HD21	1:l:313:GLY:HA3	1.78	0.49
1:A:220:ILE:HD12	1:A:220:ILE:O	2.12	0.49
1:A:384:GLN:CD	1:m:398:VAL:H	2.19	0.49
1:B:408:LEU:HD21	1:B:414:LEU:HD12	1.93	0.49
1:C:84:ARG:NH2	1:C:101:PRO:HD2	2.24	0.49
1:D:73:VAL:H	1:D:84:ARG:CB	2.25	0.49
1:D:252:THR:O	1:D:253:VAL:C	2.55	0.49
1:E:69:THR:HA	1:E:106:GLU:HB3	1.95	0.49
1:F:30:VAL:HG22	1:F:74:LEU:CG	2.43	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:G:249:TRP:CD1	1:G:249:TRP:N	2.80	0.49
1:H:530:GLU:HA	1:H:535:ALA:O	2.12	0.49
1:K:252:THR:O	1:K:253:VAL:C	2.54	0.49
1:L:10:ILE:H	1:L:10:ILE:CD1	2.19	0.49
1:L:758:GLU:O	1:L:762:VAL:HG23	2.13	0.49
1:M:276:LEU:O	1:M:277:GLY:C	2.55	0.49
1:M:803:GLY:HA3	1:M:806:THR:HB	1.95	0.49
1:N:14:HIS:HB3	1:N:56:ARG:HB2	1.93	0.49
1:N:164:GLN:NE2	1:N:204:TYR:CB	2.75	0.49
1:N:165:ALA:CB	1:N:174:LEU:HD11	2.42	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:36:ILE:O	1:R:36:ILE:CD1	2.44	0.49
1:R:65:VAL:N	1:R:110:THR:HA	2.27	0.49
1:R:183:PHE:HA	1:R:190:ARG:HB3	1.94	0.49
1:R:234:ASN:HD22	1:R:234:ASN:N	2.11	0.49
1:R:529:ILE:HD12	1:R:583:VAL:HG11	1.93	0.49
1:S:93:ALA:C	1:S:95:ASP:H	2.20	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:HA	1:V:621:LYS:HE3	1.93	0.49
1:W:113:GLN:NE2	1:W:150:THR:HG22	2.27	0.49
1:W:130:GLU:CA	1:W:137:VAL:H	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:14:HIS:ND1	1:a:36:ILE:HG22	2.28	0.49
1:a:506:LYS:HE2	1:a:524:THR:O	2.12	0.49
1:b:199:ARG:HH21	1:b:258:ALA:HB3	1.77	0.49
1:b:729:ARG:HB2	1:b:729:ARG:NH1	2.27	0.49
1:c:398:VAL:H	1:d:384:GLN:CD	2.21	0.49
1:d:243:HIS:NE2	1:d:249:TRP:CE2	2.81	0.49
1:d:296:LEU:HD22	1:d:296:LEU:H	1.76	0.49
1:e:1:MET:O	1:e:2:ALA:HB2	2.12	0.49
1:e:76:ASP:HB3	1:e:80:GLN:O	2.11	0.49
1:e:120:ALA:HB2	1:e:164:GLN:NE2	2.27	0.49
1:e:502:ALA:HB3	1:e:510:ALA:HB3	1.95	0.49
1:f:165:ALA:HB2	1:f:211:GLU:OE2	2.13	0.49
1:g:106:GLU:O	1:g:107:LYS:HD2	2.11	0.49
1:h:60:ILE:CD1	1:h:93:ALA:HA	2.42	0.49
1:h:67:ARG:HG2	1:h:108:ASP:HA	1.95	0.49
1:h:221:LEU:HD22	1:h:256:THR:CB	2.42	0.49
1:h:485:GLU:HG2	1:h:486:LEU:N	2.26	0.49
1:i:70:GLN:O	1:i:70:GLN:HG3	2.12	0.49
1:i:425:GLU:CD	1:i:425:GLU:H	2.16	0.49
1:j:425:GLU:CD	1:j:425:GLU:H	2.20	0.49
1:l:408:LEU:HD12	1:l:408:LEU:N	2.27	0.49
1:m:282:CYS:SG	1:m:302:VAL:HG23	2.52	0.49
1:A:179:ARG:CZ	1:A:210:GLU:HB2	2.42	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: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:90:ILE:CG2	1:C:154:GLN:HB2	2.42	0.49
1:C:162:ILE:HD12	1:C:205:LEU:CD1	2.43	0.49
1:D:65:VAL:HG12	1:D:110:THR:HG22	1.94	0.49
1:D:196:TRP:HA	1:D:196:TRP:CE3	2.47	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:E:90:ILE:HD13	1:E:90:ILE:N	2.28	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:F:30:VAL:HA	1:F:74:LEU:HD11	1.93	0.49
1:F:69:THR:HA	1:F:106:GLU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:550:LYS:HG3	1:F:551:ASN:N	2.28	0.49
1:G:14:HIS:CB	1:G:56:ARG:HB2	2.40	0.49
1:G:182:CYS:SG	1:G:208:VAL:HB	2.51	0.49
1:H:36:ILE:HD13	1:H:36:ILE:C	2.38	0.49
1:I:10:ILE:HD13	1:I:13:TYR:CE2	2.48	0.49
1:J:10:ILE:HD13	1:J:13:TYR:CE2	2.47	0.49
1:K:114:VAL:HG12	1:K:118:ASN:ND2	2.26	0.49
1:K:177:ARG:HH11	1:K:177:ARG:HB2	1.77	0.49
1:K:182:CYS:SG	1:K:208:VAL:HG21	2.53	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:M:481:VAL:O	1:M:481:VAL:HG13	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
1:P:88:GLN:HB3	1:P:154:GLN:HE22	1.77	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:R:251:VAL:HG23	1:R:254:GLN:NE2	2.28	0.49
1:R:395:THR:C	1:R:397:LYS:H	2.20	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: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:74:LEU:HB2	1:X:100:TYR:CE2	2.48	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: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:176:LEU:HD23	1:a:211:GLU:HA	1.93	0.49
1:b:167:VAL:HG22	1:b:201:VAL:HA	1.94	0.49
1:c:338:GLN:HB3	1:c:339:PRO:CD	2.41	0.49
1:d:596:ALA:O	1:d:600:ARG:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:802:LEU:HD12	1:e:806:THR:CG2	2.43	0.49
1:f:360:ARG:HG3	1:f:361:GLY:N	2.27	0.49
1:g:5:GLU:O	1:g:41:GLU:O	2.31	0.49
1:g:90:ILE:HD13	1:g:90:ILE:N	2.26	0.49
1:g:327:SER:H	1:g:331:GLY:HA3	1.78	0.49
1:h:654:LEU:O	1:h:657:SER:HB3	2.13	0.49
1:i:273:ILE:HG21	1:i:316:LEU:HD11	1.95	0.49
1:j:8:ILE:HG22	1:j:40:ASN:ND2	2.27	0.49
1:j:109:ILE:CD1	1:j:153:PRO:HB2	2.43	0.49
1:j:383:ASP:OD1	1:j:383:ASP:N	2.46	0.49
1:j:586:VAL:HG12	1:j:587:THR:O	2.12	0.49
1:k:10:ILE:HG23	1:k:11:PRO:HD2	1.93	0.49
1:k:113:GLN:O	1:k:114:VAL:HG13	2.12	0.49
1:k:578:ARG:HB3	1:k:602:ALA:O	2.12	0.49
1:l:6:ALA:N	1:l:7:ILE:HD12	2.27	0.49
1:l:7:ILE:HD12	1:l:7:ILE:N	2.27	0.49
1:l:92:LEU:HB2	1:l:94:GLN:HG2	1.93	0.49
1:l:252:THR:O	1:l:253:VAL:C	2.56	0.49
1:l:481:VAL:O	1:l:481:VAL:HG13	2.13	0.49
1:l:587:THR:HG23	1:l:590:ASP:HB3	1.95	0.49
1:m:11:PRO:HB2	1:m:12:PRO:HD3	1.93	0.49
1:m:268:LEU:HD13	1:m:269:GLY:H	1.77	0.49
1:m:311:GLN:N	1:m:314:GLU:HG3	2.28	0.49
1:m:333:LEU:HB2	1:m:359:ILE:CD1	2.43	0.49
1:A:2:ALA:HB3	1:A:46:ALA:O	2.13	0.49
1:A:10:ILE:HD12	1:A:10:ILE:N	2.20	0.49
1:A:587:THR:HG23	1:A:590:ASP:CB	2.42	0.49
1:A:700:GLU:OE1	1:A:703:ARG:NH1	2.46	0.49
1:B:5:GLU:HG2	1:B:43:VAL:CG2	2.40	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:256:THR:HG23	1:B:256:THR:O	2.12	0.49
1:B:276:LEU:O	1:B:277:GLY:C	2.55	0.49
1:C:332:LEU:CD2	1:C:407:MET:HB2	2.38	0.49
1:C:762:VAL:HG12	1:D:768:MET:HE2	1.94	0.49
1:D:164:GLN:NE2	1:D:204:TYR:HD2	2.10	0.49
1:D:284:ILE:HD13	1:D:284:ILE:N	2.26	0.49
1:D:340:LEU:HD23	1:D:352:GLN:HA	1.93	0.49
1:E:175:ARG:HH21	1:E:263:VAL:HG13	1.77	0.49
1:E:501:SER:HB3	1:E:508:PRO:HA	1.94	0.49
1:H:276:LEU:O	1:H:277:GLY:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:495:PHE:CB	1:H:514:LEU:HD11	2.39	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:596:ALA:O	1:J:600:ARG:HB2	2.13	0.49
1:J:771:ILE:HD12	1:J:774:ARG:HH12	1.77	0.49
1:K:67:ARG:HG2	1:K:108:ASP:CB	2.42	0.49
1:K:69:THR:CB	1:K:106:GLU:HB3	2.43	0.49
1:L:135:ASP:C	1:L:136:LYS:HG3	2.37	0.49
1:L:151:TYR:CD1	1:L:151:TYR:N	2.79	0.49
1:L:181:GLU:O	1:L:190:ARG:HD2	2.13	0.49
1:M:63:ASN:N	1:M:64:PRO:HD2	2.28	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:220:ILE:C	1:O:222:THR:H	2.21	0.49
1:O:234:ASN:N	1:O:234:ASN:HD22	2.09	0.49
1:O:766:ARG:O	1:O:770:LEU:HB2	2.13	0.49
1:P:318:ARG:O	1:P:319:GLY:C	2.53	0.49
1:P:533:ASP:CG	1:P:588:PHE:H	2.20	0.49
1:R:46:ALA:H	1:R:47:PRO:HD3	1.77	0.49
1:R:249:TRP:CD1	1:R:249:TRP:H	2.30	0.49
1:R:337:LEU:N	1:R:337:LEU:HD23	2.28	0.49
1:R:564:VAL:HG23	1:R:564:VAL:O	2.12	0.49
1:T:5:GLU:HG2	1:T:43:VAL:HG21	1.93	0.49
1:T:326:LEU:CD2	1:T:333:LEU:HG	2.41	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: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:Y:130:GLU:O	1:Y:130:GLU:HG3	2.12	0.49
1:Y:468:VAL:HG11	1:Y:495:PHE:HE2	1.77	0.49
1:a:220:ILE:C	1:a:222:THR:N	2.71	0.49
1:b:545:TRP:HB2	1:b:633:LEU:HD21	1.94	0.49
1:b:708:GLU:HG3	1:c:716:VAL:HG11	1.94	0.49
1:d:17:HIS:CD2	1:d:18:VAL:HG22	2.48	0.49
1:d:165:ALA:O	1:d:203:ALA:O	2.29	0.49
1:d:183:PHE:CE2	1:d:188:LYS:O	2.65	0.49
1:d:470:VAL:HB	1:d:479:ARG:HG3	1.95	0.49
1:e:5:GLU:HA	1:e:7:ILE:CD1	2.42	0.49
1:e:122:HIS:HB3	1:e:160:VAL:H	1.78	0.49
1:e:481:VAL:O	1:e:481:VAL:HG13	2.11	0.49
1:f:589:ASP:HB2	1:g:665:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:67:ARG:HE	1:g:107:LYS:C	2.21	0.49
1:g:293:LYS:HG2	1:h:223:GLU:HG3	1.94	0.49
1:h:14:HIS:HB3	1:h:56:ARG:HB2	1.93	0.49
1:h:337:LEU:HD12	1:h:339:PRO:O	2.13	0.49
1:h:798:MET:O	1:h:802:LEU:HD23	2.12	0.49
1:i:70:GLN:HB3	1:i:104:VAL:H	1.78	0.49
1:i:402:ILE:HD12	1:i:402:ILE:O	2.12	0.49
1:j:421:SER:O	1:j:423:VAL:N	2.45	0.49
1:j:623:ARG:CG	1:j:624:ASP:H	2.26	0.49
1:l:221:LEU:HD21	1:l:256:THR:CG2	2.43	0.49
1:l:384:GLN:H	1:l:384:GLN:NE2	2.10	0.49
1:m:14:HIS:NE2	1:m:16:ILE:HD11	2.28	0.49
1:A:224:LYS:O	1:A:272:PRO:HD3	2.13	0.49
1:A:311:GLN:HB3	1:A:312:PRO:HD2	1.93	0.49
1:B:354:GLY:O	1:B:356:CYS:N	2.45	0.49
1:B:708:GLU:HG2	1:C:716:VAL:HG11	1.94	0.49
1:C:16:ILE:HA	1:C:34:THR:OG1	2.12	0.49
1:C:100:TYR:CD2	1:C:101:PRO:HD3	2.48	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:C:601:MET:HE3	1:C:606:PHE:CB	2.43	0.49
1:D:221:LEU:HD21	1:D:256:THR:HG21	1.94	0.49
1:D:235:PHE:CE2	1:D:243:HIS:HB3	2.47	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:497:VAL:HG12	1:E:498:LEU:N	2.28	0.49
1:G:18:VAL:HG21	1:G:33:LYS:HE3	1.95	0.49
1:G:567:PHE:HB2	1:G:633:LEU:HD12	1.95	0.49
1:I:1:MET:O	1:I:2:ALA:HB2	2.12	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:42:ARG:HE	1:J:42:ARG:HA	1.78	0.49
1:J:335:LYS:HB2	1:J:335:LYS:NZ	2.27	0.49
1:K:729:ARG:HB2	1:K:729:ARG:CZ	2.43	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: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:87:ASP:CG	1:P:88:GLN:N	2.61	0.49
1:P:547:PHE:CD2	1:P:561:LEU:HD23	2.48	0.49
1:R:267:VAL:O	1:R:268:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:14:HIS:CB	1:S:56:ARG:CB	2.85	0.49
1:S:490:ASP:O	1:S:491:PRO:C	2.54	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:X:599:ILE:C	1:X:601:MET:H	2.20	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
1:a:152:ILE:HD11	1:a:156:GLU:OE2	2.13	0.49
1:a:414:LEU:HD23	1:a:455:THR:CB	2.43	0.49
1:a:796:LYS:HA	1:a:799:THR:HG22	1.94	0.49
1:b:347:GLU:O	1:b:349:VAL:HG23	2.13	0.49
1:d:535:ALA:HA	1:e:658:VAL:HG21	1.94	0.49
1:d:573:LYS:HE3	1:e:522:PHE:CZ	2.48	0.49
1:e:61:VAL:HG22	1:e:62:ALA:H	1.76	0.49
1:e:336:ALA:H	1:e:374:VAL:HG23	1.77	0.49
1:f:115:VAL:H	1:f:118:ASN:HD22	1.60	0.49
1:f:154:GLN:HG3	1:f:155:LYS:N	2.27	0.49
1:f:414:LEU:HB3	1:f:455:THR:HG21	1.95	0.49
1:g:407:MET:SD	1:g:407:MET:N	2.81	0.49
1:g:426:LEU:C	1:g:428:ASN:H	2.20	0.49
1:j:164:GLN:CD	1:j:204:TYR:HB2	2.38	0.49
1:j:273:ILE:HG13	1:j:308:PHE:HB3	1.94	0.49
1:k:151:TYR:CD2	1:k:152:ILE:CD1	2.96	0.49
1:k:164:GLN:HG3	1:k:204:TYR:HB3	1.94	0.49
1:k:215:LEU:HD12	1:k:259:HIS:NE2	2.26	0.49
1:k:794:LYS:O	1:k:798:MET:CG	2.60	0.49
1:l:648:GLN:HA	1:l:648:GLN:HE21	1.77	0.49
1:l:679:ARG:HG3	1:m:691:GLN:HE22	1.78	0.49
1:m:182:CYS:SG	1:m:208:VAL:HB	2.53	0.49
1:A:489:LEU:HD11	1:A:495:PHE:CD1	2.48	0.49
1:C:380:ILE:HD12	1:C:406:TYR:O	2.13	0.49
1:D:115:VAL:H	1:D:118:ASN:HD22	1.60	0.49
1:D:697:SER:HB3	1:E:706:LEU:HB2	1.95	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:F:394:LYS:HG2	1:G:329:GLN:CG	2.38	0.49
1:F:418:GLU:HG2	1:F:423:VAL:HG22	1.93	0.49
1:G:777:LEU:HD11	1:H:783:LYS:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:180:LYS:C	1:H:182:CYS:N	2.67	0.49
1:J:551:ASN:HB3	1:J:554:ASP:CB	2.43	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:K:151:TYR:N	1:K:151:TYR:CD1	2.80	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: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:N	1:L:151:TYR:HD1	2.10	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
1:T:63:ASN:N	1:T:64:PRO:HD2	2.27	0.49
1:T:296:LEU:HB2	1:U:274:THR:HG21	1.94	0.49
1:U:60:ILE:HG22	1:U:66:SER:HA	1.94	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: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:Y:276:LEU:O	1:Y:277:GLY:C	2.56	0.49
1:Z:330:GLN:HB3	1:Z:379:ALA:HB3	1.94	0.49
1:Z:354:GLY:C	1:a:328:GLU:HG3	2.38	0.49
1:a:113:GLN:O	1:a:114:VAL:HG13	2.13	0.49
1:b:14:HIS:NE2	1:b:16:ILE:HD11	2.28	0.49
1:b:387:GLY:CA	1:b:402:ILE:HG22	2.43	0.49
1:b:594:ASN:O	1:b:595:SER:C	2.56	0.49
1:c:268:LEU:HD13	1:c:269:GLY:H	1.78	0.49
1:c:335:LYS:HB2	1:c:335:LYS:HZ3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:73:VAL:N	1:d:84:ARG:HB2	2.19	0.49
1:d:252:THR:O	1:d:253:VAL:C	2.56	0.49
1:d:310:LEU:H	1:d:310:LEU:HD12	1.78	0.49
1:d:506:LYS:HE2	1:d:524:THR:O	2.12	0.49
1:e:70:GLN:O	1:e:70:GLN:HG3	2.13	0.49
1:f:60:ILE:HG22	1:f:66:SER:HA	1.94	0.49
1:g:379:ALA:HB2	1:g:407:MET:HB3	1.95	0.49
1:i:60:ILE:HG22	1:i:66:SER:HA	1.94	0.49
1:i:296:LEU:N	1:i:296:LEU:HD22	2.27	0.49
1:j:182:CYS:SG	1:j:208:VAL:HG21	2.53	0.49
1:j:334:LEU:C	1:j:335:LYS:HG3	2.37	0.49
1:j:472:ASP:HA	1:j:493:GLU:CB	2.38	0.49
1:k:100:TYR:HB3	1:k:101:PRO:CD	2.43	0.49
1:k:113:GLN:CD	1:k:150:THR:H	2.21	0.49
1:k:152:ILE:CD1	1:k:152:ILE:H	2.26	0.49
1:k:245:THR:HG22	1:l:219:VAL:HG11	1.93	0.49
1:l:330:GLN:CB	1:l:379:ALA:HB3	2.33	0.49
1:A:175:ARG:NE	1:A:263:VAL:HG22	2.28	0.49
1:A:227:LEU:O	1:A:250:LEU:HA	2.12	0.49
1:A:593:LYS:HE2	1:m:532:ALA:HB1	1.94	0.49
1:B:465:ASN:HB3	1:B:519:GLY:HA3	1.95	0.49
1:B:580:ARG:NH2	1:C:595:SER:HB2	2.16	0.49
1:C:3:THR:HG22	1:C:50:MET:HE1	1.93	0.49
1:D:517:LEU:HD12	1:D:517:LEU:H	1.77	0.49
1:D:715:ALA:HA	1:E:724:ALA:HB1	1.93	0.49
1:E:745:LYS:O	1:E:748:ALA:HB3	2.13	0.49
1:F:654:LEU:CD1	1:G:662:ILE:CD1	2.91	0.49
1:G:2:ALA:HB3	1:G:46:ALA:O	2.12	0.49
1:G:414:LEU:HB3	1:G:455:THR:HG21	1.94	0.49
1:H:124:LYS:HB2	1:H:142:GLU:HG2	1.95	0.49
1:H:338:GLN:CB	1:H:339:PRO:CD	2.89	0.49
1:J:3:THR:HG22	1:J:50:MET:CE	2.43	0.49
1:J:205:LEU:HD22	1:J:211:GLU:HB2	1.93	0.49
1:K:123:LEU:HA	1:K:158:GLU:HA	1.95	0.49
1:K:182:CYS:SG	1:K:208:VAL:CG2	3.01	0.49
1:K:229:LEU:HD23	1:K:266:GLU:HA	1.95	0.49
1:M:49:ARG:NH2	1:N:8:ILE:CD1	2.76	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:N:594:ASN:O	1:N:595:SER:C	2.54	0.49
1:O:324:TYR:HE1	1:O:373:VAL:HG21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:117:PRO:O	1:R:118:ASN:C	2.56	0.49
1:R:170:GLN:HE22	1:R:256:THR:HG23	1.78	0.49
1:R:494:GLN:NE2	1:R:494:GLN:CA	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:426:LEU:C	1:T:428:ASN:H	2.20	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:529:ILE:HD12	1:X:583:VAL:HG11	1.95	0.49
1:X:547:PHE:CD2	1:X:561:LEU:HD23	2.48	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:Z:601:MET:HE3	1:Z:606:PHE:HB3	1.95	0.49
1:a:285:LEU:HB2	1:a:315:ARG:HG2	1.94	0.49
1:a:795:PHE:CZ	1:b:802:LEU:HD22	2.48	0.49
1:b:8:ILE:HA	1:b:40:ASN:HD22	1.77	0.49
1:c:230:ARG:HG2	1:c:248:GLU:HG2	1.93	0.49
1:c:243:HIS:HE2	1:c:249:TRP:CG	2.30	0.49
1:c:268:LEU:HD12	1:c:269:GLY:O	2.12	0.49
1:d:221:LEU:HD13	1:d:256:THR:HB	1.95	0.49
1:d:524:THR:HG22	1:d:542:ALA:HB2	1.95	0.49
1:d:802:LEU:HD12	1:d:806:THR:CG2	2.42	0.49
1:e:236:ARG:HB3	1:e:236:ARG:NH1	2.28	0.49
1:f:9:ARG:CZ	1:f:15:TYR:HB3	2.42	0.49
1:f:600:ARG:O	1:f:604:PHE:HD1	1.96	0.49
1:g:766:ARG:HD3	1:h:772:TYR:CB	2.40	0.49
1:h:14:HIS:HB3	1:h:56:ARG:CG	2.42	0.49
1:h:330:GLN:HE22	1:h:360:ARG:HD2	1.77	0.49
1:i:171:ASN:O	1:i:216:VAL:HG12	2.13	0.49
1:i:287:PRO:O	1:i:295:GLN:HB2	2.13	0.49
1:j:8:ILE:HD13	1:j:8:ILE:N	2.20	0.49
1:j:183:PHE:HE2	1:j:188:LYS:HA	1.78	0.49
1:j:330:GLN:HE22	1:j:360:ARG:HD2	1.78	0.49
1:k:398:VAL:HG11	1:k:415:TRP:CD2	2.48	0.49
1:l:58:TYR:CG	1:l:98:PRO:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:273:ILE:HD13	1:l:310:LEU:HD21	1.95	0.49
1:l:333:LEU:HB2	1:l:359:ILE:HD11	1.93	0.49
1:l:522:PHE:CD2	1:l:522:PHE:C	2.91	0.49
1:m:251:VAL:HG23	1:m:254:GLN:HE21	1.75	0.49
1:m:564:VAL:CG2	1:m:631:ASN:ND2	2.75	0.49
1:A:29:GLU:O	1:A:84:ARG:HD3	2.13	0.48
1:A:54:PRO:HB2	1:A:55:PRO:CD	2.39	0.48
1:A:384:GLN:HG2	1:m:474:ARG:HH22	1.78	0.48
1:A:469:GLN:HB2	1:A:562:PHE:CE1	2.48	0.48
1:A:533:ASP:OD1	1:A:587:THR:HA	2.13	0.48
1:B:154:GLN:CG	1:B:155:LYS:HE3	2.43	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:573:LYS:HE3	1:D:522:PHE:CZ	2.48	0.48
1:C:677:ALA:HA	1:C:680:LEU:HD12	1.95	0.48
1:F:281:TYR:CD2	1:F:366:VAL:HG13	2.48	0.48
1:F:568:VAL:HG23	1:F:569:GLY:H	1.78	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: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:I:419:LEU:HD23	1:I:421:SER:H	1.77	0.48
1:J:676:GLU:HA	1:J:676:GLU:OE1	2.12	0.48
1:L:268:LEU:HD13	1:L:269:GLY:N	2.19	0.48
1:L:382:LEU:H	1:L:405:THR:HG22	1.78	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: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:192:THR:HG23	1:Q:202:GLY:HA3	1.93	0.48
1:P:398:VAL:HG11	1:P:415:TRP:CD2	2.48	0.48
1:Q:3:THR:HG22	1:Q:50:MET:HE2	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:61:VAL:HG13	1:S:65:VAL:CG2	2.41	0.48
1:S:175:ARG:HB2	1:S:213:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:352:GLN:O	1:U:353:ALA:C	2.56	0.48
1:V:182:CYS:SG	1:V:208:VAL:HG21	2.52	0.48
1:W:77:ILE:HG13	1:W:80:GLN:H	1.77	0.48
1:W:395:THR:HG21	1:W:397:LYS:HE2	1.95	0.48
1:X:84:ARG:HH22	1:X:101:PRO:HD2	1.78	0.48
1:a:60:ILE:CD1	1:a:60:ILE:O	2.60	0.48
1:a:129:PHE:O	1:a:130:GLU:HG2	2.13	0.48
1:a:159:VAL:HG12	1:a:160:VAL:HG22	1.95	0.48
1:a:230:ARG:HB3	1:a:230:ARG:NH1	2.27	0.48
1:a:399:ARG:NH1	1:a:399:ARG:HG2	2.28	0.48
1:b:191:VAL:HG12	1:b:194:GLU:HB2	1.95	0.48
1:d:125:ALA:HB1	1:d:128:ASP:HB3	1.94	0.48
1:d:387:GLY:HA3	1:d:402:ILE:HG22	1.94	0.48
1:f:217:ASP:HB2	1:f:258:ALA:CA	2.36	0.48
1:f:408:LEU:HD12	1:f:408:LEU:H	1.77	0.48
1:g:58:TYR:CG	1:g:98:PRO:HA	2.47	0.48
1:g:154:GLN:HG3	1:g:155:LYS:CE	2.43	0.48
1:g:529:ILE:CD1	1:g:537:LEU:HB2	2.43	0.48
1:k:5:GLU:HA	1:k:7:ILE:CD1	2.42	0.48
1:k:36:ILE:HG21	1:k:99:LEU:CD1	2.43	0.48
1:k:182:CYS:SG	1:k:208:VAL:HB	2.53	0.48
1:k:529:ILE:HG22	1:k:580:ARG:HB2	1.94	0.48
1:k:805:GLY:HA2	1:k:808:ARG:HB3	1.94	0.48
1:l:360:ARG:HG3	1:l:361:GLY:N	2.27	0.48
1:m:16:ILE:HD13	1:m:34:THR:HG21	1.95	0.48
1:A:54:PRO:CB	1:A:55:PRO:HD3	2.38	0.48
1:A:398:VAL:H	1:B:384:GLN:CD	2.21	0.48
1:C:701:LYS:HG3	1:D:709:LEU:HD13	1.94	0.48
1:D:63:ASN:N	1:D:64:PRO:HD2	2.27	0.48
1:D:279:ARG:HG3	1:D:280:HIS:CD2	2.48	0.48
1:D:777:LEU:HD11	1:E:783:LYS:HB2	1.95	0.48
1:D:796:LYS:HA	1:D:799:THR:CG2	2.38	0.48
1:E:16:ILE:HA	1:E:34:THR:HG1	1.77	0.48
1:E:276:LEU:O	1:E:277:GLY:C	2.55	0.48
1:E:296:LEU:HD13	1:E:296:LEU:H	1.78	0.48
1:F:221:LEU:HD12	1:F:253:VAL:HG13	1.95	0.48
1:G:352:GLN:O	1:G:355:ASP:HB3	2.13	0.48
1:I:30:VAL:HG22	1:I:74:LEU:HG	1.95	0.48
1:I:185:ARG:HG3	1:I:206:PRO:CB	2.43	0.48
1:I:328:GLU:OE1	1:I:328:GLU:HA	2.13	0.48
1:J:113:GLN:OE1	1:J:149:GLY:HA2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:766:ARG:O	1:K:770:LEU:HB2	2.14	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:N:284:ILE:HD13	1:N:284:ILE:N	2.25	0.48
1:N:291:ASP:C	1:N:293:LYS:N	2.69	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:14:HIS:HB2	1:R:56:ARG:CB	2.42	0.48
1:R:252:THR:O	1:R:254:GLN:NE2	2.46	0.48
1:S:74:LEU:HD22	1:S:100:TYR:HE2	1.77	0.48
1:S:395:THR:HG21	1:S:397:LYS:HE2	1.95	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:10:ILE:CG2	1:V:11:PRO:HD2	2.42	0.48
1:V:113:GLN:O	1:V:114:VAL:HG13	2.13	0.48
1:V:152:ILE:HD11	1:V:156:GLU:OE2	2.13	0.48
1:V:476:LYS:HE2	1:W:485:GLU:HG3	1.95	0.48
1:W:221:LEU:CD2	1:W:256:THR:HG21	2.42	0.48
1:X:92:LEU:HB2	1:X:94:GLN:HG2	1.94	0.48
1:X:560:LYS:HD2	1:X:630:GLN:O	2.14	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:36:ILE:HG21	1:Z:99:LEU:HB2	1.94	0.48
1:Z:154:GLN:HG3	1:Z:155:LYS:N	2.28	0.48
1:a:245:THR:OG1	1:b:170:GLN:OE1	2.31	0.48
1:a:719:THR:HG22	1:b:728:SER:HA	1.94	0.48
1:b:67:ARG:O	1:b:91:ARG:HB2	2.13	0.48
1:b:416:GLU:OE1	1:b:454:LYS:HD3	2.13	0.48
1:d:121:LEU:HD12	1:d:145:PHE:HD2	1.78	0.48
1:d:192:THR:HG23	1:e:202:GLY:HA3	1.94	0.48
1:d:529:ILE:CD1	1:d:583:VAL:HG11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:2:ALA:HB3	1:e:46:ALA:O	2.13	0.48
1:e:359:ILE:HD13	1:e:359:ILE:H	1.79	0.48
1:f:67:ARG:NH2	1:f:107:LYS:HA	2.23	0.48
1:g:297:GLY:O	1:h:276:LEU:HD22	2.13	0.48
1:g:382:LEU:H	1:g:405:THR:HG22	1.78	0.48
1:g:481:VAL:O	1:g:481:VAL:HG13	2.13	0.48
1:h:221:LEU:HD22	1:h:256:THR:HB	1.95	0.48
1:h:336:ALA:H	1:h:374:VAL:HG23	1.78	0.48
1:i:175:ARG:NE	1:i:263:VAL:HG22	2.27	0.48
1:i:182:CYS:SG	1:i:208:VAL:CG2	3.00	0.48
1:i:189:GLY:O	1:i:196:TRP:HZ2	1.95	0.48
1:j:62:ALA:O	1:j:93:ALA:HB2	2.13	0.48
1:j:171:ASN:O	1:j:216:VAL:HA	2.13	0.48
1:j:291:ASP:C	1:j:293:LYS:H	2.20	0.48
1:k:60:ILE:HG12	1:k:93:ALA:HA	1.94	0.48
1:k:205:LEU:HD22	1:k:211:GLU:HB2	1.95	0.48
1:m:766:ARG:O	1:m:770:LEU:HB2	2.13	0.48
1:A:19:LEU:HA	1:A:32:PRO:HB2	1.95	0.48
1:A:766:ARG:O	1:A:770:LEU:HB2	2.12	0.48
1:B:227:LEU:O	1:B:250:LEU:HA	2.13	0.48
1:B:795:PHE:O	1:B:799:THR:HG22	2.12	0.48
1:D:29:GLU:O	1:D:84:ARG:NH1	2.43	0.48
1:E:281:TYR:HE1	1:E:321:GLN:HB2	1.78	0.48
1:E:494:GLN:NE2	1:E:494:GLN:CA	2.74	0.48
1:F:155:LYS:H	1:F:155:LYS:HZ2	1.60	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:G:518:LEU:HA	1:G:547:PHE:HD1	1.78	0.48
1:H:120:ALA:O	1:H:161:GLU:HA	2.13	0.48
1:K:244:ARG:HB2	1:K:247:GLU:OE1	2.12	0.48
1:K:338:GLN:HB3	1:K:339:PRO:CD	2.38	0.48
1:K:653:ALA:HB2	1:L:659:GLN:HE22	1.77	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: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: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:P:599:ILE:C	1:P:601:MET:H	2.21	0.48
1:Q:310:LEU:H	1:Q:310:LEU:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH11	1:V:177:ARG:HB2	1.79	0.48
1:V:252:THR:H	1:V:254:GLN:HE21	1.61	0.48
1:V:343:GLY:HA2	1:V:348:LYS:C	2.38	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: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:X:291:ASP:C	1:X:293:LYS:N	2.71	0.48
1:Y:18:VAL:O	1:Y:32:PRO:HB3	2.13	0.48
1:Y:113:GLN:OE1	1:Y:149:GLY:HA2	2.14	0.48
1:Z:327:SER:O	1:Z:328:GLU:C	2.56	0.48
1:a:2:ALA:HB3	1:a:46:ALA:O	2.13	0.48
1:a:387:GLY:HA3	1:a:402:ILE:HG22	1.96	0.48
1:c:176:LEU:HA	1:c:210:GLU:O	2.12	0.48
1:c:229:LEU:HD23	1:c:266:GLU:HA	1.95	0.48
1:d:235:PHE:CE1	1:d:264:TYR:CE1	3.01	0.48
1:d:252:THR:O	1:d:254:GLN:N	2.46	0.48
1:e:338:GLN:NE2	1:f:279:ARG:HD3	2.28	0.48
1:e:481:VAL:HG11	1:e:487:VAL:HG13	1.93	0.48
1:f:224:LYS:C	1:f:272:PRO:HD3	2.39	0.48
1:f:807:ILE:CD1	1:g:806:THR:HG21	2.44	0.48
1:g:109:ILE:CD1	1:g:153:PRO:CB	2.73	0.48
1:h:14:HIS:HD1	1:h:36:ILE:CG2	2.26	0.48
1:i:14:HIS:HD1	1:i:36:ILE:HG22	1.78	0.48
1:j:704:LYS:CD	1:k:712:MET:HB3	2.43	0.48
1:k:261:PRO:HD2	1:k:264:TYR:HD1	1.78	0.48
1:k:327:SER:O	1:k:328:GLU:HB2	2.13	0.48
1:l:19:LEU:HA	1:l:32:PRO:HB2	1.94	0.48
1:m:180:LYS:HD2	1:m:208:VAL:HG12	1.96	0.48
1:m:360:ARG:HG3	1:m:361:GLY:N	2.26	0.48
1:m:472:ASP:OD1	1:m:472:ASP:C	2.56	0.48
1:m:600:ARG:HH12	1:m:622:ALA:HB3	1.77	0.48
1:A:185:ARG:HG2	1:A:209:PHE:HE2	1.78	0.48
1:A:753:ILE:CD1	1:m:745:LYS:HG3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:LYS:O	1:C:418:GLU:HB2	2.13	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:601:MET:HE3	1:D:606:PHE:CB	2.43	0.48
1:D:719:THR:HG22	1:E:728:SER:CA	2.43	0.48
1:E:687:ARG:O	1:E:691:GLN:HG3	2.13	0.48
1:F:113:GLN:O	1:F:114:VAL:HG13	2.13	0.48
1:F:495:PHE:HB3	1:F:514:LEU:HD11	1.94	0.48
1:G:220:ILE:HD12	1:G:220:ILE:O	2.13	0.48
1:G:387:GLY:HA3	1:G:402:ILE:HG22	1.94	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
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:527:ILE:HD13	1:I:527:ILE:H	1.77	0.48
1:J:18:VAL:H	1:J:48:VAL:CG1	2.18	0.48
1:J:19:LEU:HD23	1:J:32:PRO:HB2	1.94	0.48
1:J:771:ILE:HD12	1:J:774:ARG:NH1	2.28	0.48
1:K:190:ARG:O	1:K:191:VAL:HG23	2.12	0.48
1:K:234:ASN:N	1:K:234:ASN:ND2	2.55	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:288:MET:HB3	1:L:294:ASN:HA	1.94	0.48
1:L:318:ARG:O	1:L:319:GLY:C	2.56	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:R:750:ALA:C	1:R:752:ALA:H	2.21	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:U:5:GLU:OE1	1:U:43:VAL:HG11	2.12	0.48
1:U:332:LEU:HD21	1:U:407:MET:HB3	1.90	0.48
1:V:180:LYS:HD2	1:V:208:VAL:HG12	1.95	0.48
1:V:252:THR:O	1:V:253:VAL:C	2.57	0.48
1:V:387:GLY:HA3	1:V:402:ILE:HG22	1.94	0.48
1:X:276:LEU:O	1:X:277:GLY:C	2.56	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:167:VAL:H	1:a:202:GLY:H	1.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:715:ALA:HA	1:b:724:ALA:HB1	1.95	0.48
1:a:762:VAL:O	1:a:766:ARG:HB2	2.13	0.48
1:b:236:ARG:HB3	1:b:236:ARG:NH1	2.29	0.48
1:d:182:CYS:SG	1:d:208:VAL:HG21	2.54	0.48
1:d:752:ALA:O	1:d:756:GLU:HB2	2.13	0.48
1:e:6:ALA:N	1:e:7:ILE:HD12	2.27	0.48
1:f:114:VAL:HA	1:f:118:ASN:ND2	2.27	0.48
1:f:354:GLY:C	1:g:328:GLU:HG3	2.39	0.48
1:g:114:VAL:HA	1:g:118:ASN:HD21	1.79	0.48
1:g:175:ARG:HE	1:g:263:VAL:HG22	1.78	0.48
1:g:529:ILE:C	1:g:529:ILE:HD12	2.39	0.48
1:h:766:ARG:HG3	1:i:772:TYR:CD1	2.48	0.48
1:i:10:ILE:H	1:i:10:ILE:CD1	2.19	0.48
1:i:208:VAL:HG23	1:i:209:PHE:CD2	2.47	0.48
1:i:221:LEU:HD22	1:i:256:THR:HB	1.96	0.48
1:i:338:GLN:CB	1:i:339:PRO:CD	2.88	0.48
1:i:591:PHE:O	1:i:595:SER:N	2.46	0.48
1:j:5:GLU:HB2	1:j:7:ILE:CD1	2.42	0.48
1:j:151:TYR:O	1:j:153:PRO:HD3	2.14	0.48
1:j:494:GLN:HA	1:j:494:GLN:NE2	2.28	0.48
1:k:123:LEU:HA	1:k:158:GLU:HA	1.96	0.48
1:k:268:LEU:HD13	1:k:269:GLY:H	1.78	0.48
1:l:182:CYS:HB2	1:l:208:VAL:HB	1.94	0.48
1:l:336:ALA:HA	1:l:356:CYS:HB2	1.95	0.48
1:B:10:ILE:HD12	1:B:10:ILE:N	2.22	0.48
1:C:17:HIS:CD2	1:C:18:VAL:HG22	2.49	0.48
1:D:15:TYR:CE2	1:D:17:HIS:HB3	2.49	0.48
1:F:654:LEU:HD13	1:G:662:ILE:HD13	1.95	0.48
1:F:662:ILE:O	1:F:666:THR:HB	2.14	0.48
1:G:10:ILE:H	1:G:10:ILE:CD1	2.18	0.48
1:H:261:PRO:HD2	1:H:264:TYR:HD1	1.78	0.48
1:I:249:TRP:CD1	1:I:249:TRP:H	2.31	0.48
1:J:194:GLU:HG2	1:J:195:GLU:N	2.28	0.48
1:J:540:GLN:O	1:J:641:GLN:HG2	2.13	0.48
1:J:575:ILE:CD1	1:J:603:VAL:HG13	2.42	0.48
1:J:805:GLY:HA2	1:J:808:ARG:HB3	1.94	0.48
1:K:17:HIS:CD2	1:K:18:VAL:HG22	2.49	0.48
1:K:77:ILE:HG13	1:K:79:GLY:N	2.29	0.48
1:K:279:ARG:HG3	1:K:280:HIS:CD2	2.48	0.48
1:L:6:ALA:HB1	1:L:42:ARG:NH2	2.27	0.48
1:M:30:VAL:HG13	1:M:74:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:523:PHE:CD1	1:M:545:TRP:NE1	2.82	0.48
1:O:85:HIS:NE2	1:O:102:GLY:HA3	2.28	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: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:P:121:LEU:HB2	1:P:145:PHE:HB3	1.96	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:533:ASP:CG	1:R:588:PHE:H	2.21	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:345:SER:C	1:V:347:GLU:H	2.22	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
1:a:327:SER:N	1:a:331:GLY:HA3	2.28	0.48
1:a:399:ARG:HA	1:a:491:PRO:HG3	1.95	0.48
1:a:465:ASN:ND2	1:a:520:PRO:HD2	2.27	0.48
1:b:330:GLN:CB	1:b:379:ALA:HB3	2.41	0.48
1:b:476:LYS:CE	1:c:485:GLU:HG3	2.31	0.48
1:b:523:PHE:HE1	1:b:568:VAL:HG12	1.71	0.48
1:c:120:ALA:HB2	1:c:164:GLN:NE2	2.23	0.48
1:c:239:ARG:HH21	1:c:257:GLU:CG	2.25	0.48
1:c:474:ARG:HG3	1:c:492:GLU:HB2	1.95	0.48
1:c:490:ASP:O	1:c:491:PRO:C	2.56	0.48
1:c:708:GLU:HG3	1:d:716:VAL:HG11	1.95	0.48
1:d:22:ASN:HD21	1:e:39:ASP:HB3	1.78	0.48
1:d:45:PHE:HB2	1:d:48:VAL:HG23	1.96	0.48
1:d:58:TYR:HB2	1:d:97:PHE:O	2.14	0.48
1:d:217:ASP:OD1	1:d:218:ALA:N	2.46	0.48
1:e:58:TYR:CD1	1:e:98:PRO:HA	2.48	0.48
1:e:100:TYR:HB3	1:e:101:PRO:CD	2.43	0.48
1:e:167:VAL:HG22	1:e:201:VAL:HA	1.95	0.48
1:f:734:ARG:HH21	1:f:735:ILE:HD13	1.78	0.48
1:h:14:HIS:NE2	1:h:16:ILE:CD1	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:230:ARG:HG2	1:h:248:GLU:HG2	1.96	0.48
1:i:235:PHE:HE1	1:i:237:ASP:HA	1.79	0.48
1:i:408:LEU:HD21	1:i:414:LEU:CD1	2.38	0.48
1:i:541:LEU:HD12	1:i:543:TYR:OH	2.12	0.48
1:j:5:GLU:C	1:j:7:ILE:HD12	2.39	0.48
1:m:19:LEU:HA	1:m:32:PRO:HB2	1.95	0.48
1:A:396:GLY:CA	1:B:405:THR:HG23	2.44	0.48
1:B:130:GLU:HA	1:B:137:VAL:H	1.79	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:B:518:LEU:HA	1:B:547:PHE:HD1	1.78	0.48
1:C:766:ARG:HD2	1:D:768:MET:CE	2.41	0.48
1:C:766:ARG:O	1:C:770:LEU:HB2	2.13	0.48
1:D:10:ILE:HD13	1:D:13:TYR:CD2	2.48	0.48
1:D:93:ALA:C	1:D:95:ASP:H	2.21	0.48
1:E:529:ILE:HD13	1:E:583:VAL:HG11	1.95	0.48
1:E:532:ALA:HB1	1:F:593:LYS:HE2	1.96	0.48
1:E:564:VAL:HG22	1:E:631:ASN:ND2	2.29	0.48
1:E:580:ARG:HH22	1:F:595:SER:HB2	1.78	0.48
1:F:236:ARG:HB3	1:F:236:ARG:NH1	2.29	0.48
1:F:335:LYS:HB2	1:F:335:LYS:HZ3	1.78	0.48
1:G:458:VAL:CG1	1:G:489:LEU:HD12	2.43	0.48
1:H:597:ARG:HG3	1:H:600:ARG:HH21	1.79	0.48
1:I:318:ARG:O	1:I:319:GLY:C	2.56	0.48
1:I:698:GLU:HA	1:I:698:GLU:OE2	2.13	0.48
1:J:235:PHE:CZ	1:J:264:TYR:CE1	3.02	0.48
1:J:245:THR:HG22	1:J:246:GLY:N	2.27	0.48
1:J:573:LYS:HE3	1:K:522:PHE:CZ	2.49	0.48
1:L:19:LEU:HA	1:L:32:PRO:HB2	1.95	0.48
1:L:692:LYS:HG2	1:L:696:GLN:HE21	1.78	0.48
1:M:394:LYS:HZ2	1:N:329:GLN:HG3	1.78	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:O:146:GLU:HA	1:O:146:GLU:OE1	2.12	0.48
1:P:262:ASP:HB3	1:P:264:TYR:HE1	1.70	0.48
1:Q:30:VAL:HG22	1:Q:74:LEU:CG	2.42	0.48
1:S:180:LYS:C	1:S:182:CYS:N	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:W:600:ARG:NH1	1:W:622:ALA:HB3	2.28	0.48
1:Y:8:ILE:HG22	1:Y:40:ASN:HD21	1.78	0.48
1:Y:474:ARG:CG	1:Y:492:GLU:HB2	2.43	0.48
1:Y:708:GLU:HG3	1:Z:716:VAL:HG11	1.96	0.48
1:Z:273:ILE:HG21	1:Z:316:LEU:HD11	1.96	0.48
1:Z:766:ARG:HD3	1:a:772:TYR:HB2	1.95	0.48
1:a:127:LEU:HB3	1:b:64:PRO:HD3	1.94	0.48
1:a:533:ASP:CG	1:a:588:PHE:H	2.20	0.48
1:a:766:ARG:O	1:a:770:LEU:HB2	2.13	0.48
1:b:90:ILE:CD1	1:b:154:GLN:HG2	2.41	0.48
1:c:17:HIS:CD2	1:c:18:VAL:HG22	2.48	0.48
1:d:18:VAL:N	1:d:48:VAL:HG13	2.24	0.48
1:d:185:ARG:HG3	1:d:206:PRO:HB3	1.95	0.48
1:d:340:LEU:HG	1:d:353:ALA:H	1.79	0.48
1:d:415:TRP:CH2	1:d:417:LYS:HB3	2.48	0.48
1:d:766:ARG:HD3	1:e:772:TYR:HB2	1.94	0.48
1:e:122:HIS:CG	1:e:159:VAL:HB	2.49	0.48
1:e:340:LEU:HD23	1:e:352:GLN:HA	1.96	0.48
1:f:337:LEU:HD22	1:f:357:TRP:CZ3	2.34	0.48
1:g:285:LEU:CD1	1:g:315:ARG:HH11	2.26	0.48
1:g:471:TYR:HD1	1:g:478:ALA:HB2	1.79	0.48
1:i:123:LEU:CG	1:i:143:TRP:HB2	2.43	0.48
1:i:123:LEU:HA	1:i:158:GLU:HA	1.96	0.48
1:j:43:VAL:HG12	1:j:45:PHE:O	2.12	0.48
1:j:235:PHE:CE1	1:j:264:TYR:CE1	3.01	0.48
1:j:273:ILE:HG23	1:j:310:LEU:HD11	1.95	0.48
1:k:177:ARG:HB2	1:k:177:ARG:HH11	1.79	0.48
1:m:1:MET:O	1:m:2:ALA:HB2	2.14	0.48
1:m:244:ARG:O	1:m:247:GLU:HB2	2.14	0.48
1:A:17:HIS:CD2	1:A:18:VAL:HG22	2.48	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:B:338:GLN:HB3	1:B:339:PRO:HD3	1.95	0.48
1:B:729:ARG:HB2	1:B:729:ARG:NH1	2.29	0.48
1:C:279:ARG:HA	1:C:323:VAL:HG22	1.94	0.48
1:D:77:ILE:CG1	1:D:80:GLN:C	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:596:ALA:O	1:D:600:ARG:HB2	2.14	0.48
1:F:65:VAL:HG12	1:F:110:THR:CG2	2.44	0.48
1:F:382:LEU:HD11	1:F:388:ILE:HG13	1.96	0.48
1:G:242:LEU:HD23	1:G:242:LEU:H	1.79	0.48
1:G:334:LEU:HD23	1:G:334:LEU:C	2.39	0.48
1:G:382:LEU:N	1:G:405:THR:HG22	2.28	0.48
1:G:623:ARG:HG3	1:G:624:ASP:H	1.77	0.48
1:H:18:VAL:CG1	1:H:48:VAL:HG22	2.36	0.48
1:H:523:PHE:CE1	1:H:568:VAL:HG12	2.48	0.48
1:I:3:THR:CG2	1:I:50:MET:CE	2.86	0.48
1:I:226:ALA:HB3	1:I:270:VAL:CG1	2.44	0.48
1:J:227:LEU:O	1:J:250:LEU:HA	2.13	0.48
1:K:117:PRO:O	1:K:118:ASN:C	2.57	0.48
1:K:175:ARG:HB2	1:K:213:LEU:O	2.14	0.48
1:K:472:ASP:HA	1:K:493:GLU:CB	2.43	0.48
1:L:5:GLU:HB2	1:L:41:GLU:OE1	2.13	0.48
1:L:220:ILE:C	1:L:222:THR:N	2.70	0.48
1:L:249:TRP:CD1	1:L:249:TRP:H	2.32	0.48
1:L:354:GLY:O	1:M:328:GLU:HG3	2.13	0.48
1:M:230:ARG:HH11	1:M:230:ARG:HB3	1.79	0.48
1:M:288:MET:HB3	1:M:294:ASN:HA	1.96	0.48
1:N:70:GLN:HE21	1:N:104:VAL:HG12	1.79	0.48
1:O:408:LEU:HD12	1:O:408:LEU:H	1.78	0.48
1:P:599:ILE:C	1:P:601:MET:N	2.72	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:60:ILE:HG12	1:Q:92:LEU:O	2.13	0.48
1:Q:496:THR:HG22	1:Q:496:THR:O	2.13	0.48
1:T:388:ILE:H	1:T:388:ILE:HD13	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:60:ILE:HD11	1:W:95:ASP:O	2.14	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: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:Z:785:GLN:CA	1:a:790:VAL:HG21	2.36	0.48
1:c:184:ASP:HB3	1:c:187:GLY:O	2.14	0.48
1:c:226:ALA:O	1:c:269:GLY:HA2	2.13	0.48
1:c:485:GLU:HG2	1:c:486:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:808:ARG:O	1:d:811:ALA:HB3	2.14	0.48
1:e:116:LEU:O	1:e:118:ASN:N	2.47	0.48
1:e:123:LEU:HA	1:e:158:GLU:HA	1.96	0.48
1:e:154:GLN:CG	1:e:155:LYS:N	2.77	0.48
1:e:229:LEU:O	1:e:248:GLU:HA	2.13	0.48
1:e:330:GLN:HG3	1:e:379:ALA:HB3	1.94	0.48
1:e:380:ILE:CD1	1:e:388:ILE:HD13	2.32	0.48
1:e:693:ILE:HD12	1:e:696:GLN:HE22	1.78	0.48
1:f:128:ASP:OD1	1:f:131:ASP:HB3	2.13	0.48
1:f:543:TYR:CE2	1:f:575:ILE:HG21	2.48	0.48
1:g:122:HIS:HB3	1:g:159:VAL:HB	1.96	0.48
1:g:231:ALA:O	1:g:245:THR:HA	2.13	0.48
1:g:251:VAL:HG23	1:g:254:GLN:NE2	2.29	0.48
1:g:465:ASN:HB3	1:g:519:GLY:HA3	1.95	0.48
1:h:180:LYS:C	1:h:182:CYS:N	2.70	0.48
1:h:676:GLU:HA	1:h:676:GLU:OE1	2.13	0.48
1:i:108:ASP:OD1	1:i:108:ASP:N	2.45	0.48
1:i:113:GLN:HG2	1:i:150:THR:HB	1.95	0.48
1:i:132:LYS:CE	1:i:152:ILE:HD12	2.41	0.48
1:i:419:LEU:HG	1:i:420:PRO:CD	2.32	0.48
1:i:508:PRO:O	1:i:509:HIS:HD2	1.97	0.48
1:k:182:CYS:SG	1:k:208:VAL:HG23	2.53	0.48
1:k:758:GLU:O	1:k:762:VAL:HG23	2.14	0.48
1:l:60:ILE:HB	1:l:93:ALA:HA	1.96	0.48
1:l:474:ARG:CG	1:l:492:GLU:HB2	2.43	0.48
1:l:733:ALA:HA	1:l:736:GLU:HB2	1.96	0.48
1:m:340:LEU:HG	1:m:353:ALA:HB2	1.95	0.48
1:B:311:GLN:HB3	1:B:312:PRO:HD2	1.95	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:719:THR:HG22	1:D:728:SER:HA	1.94	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:262:ASP:HB3	1:D:264:TYR:CZ	2.49	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:G:124:LYS:HB2	1:G:142:GLU:HG2	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:K:587:THR:HG23	1:K:590:ASP:HB3	1.95	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:601:MET:HE2	1:Q:601:MET:HB3	1.77	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:X:394:LYS:HA	1:Y:329:GLN:NE2	2.28	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: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:281:TYR:CE1	1:a:321:GLN:HB2	2.49	0.48
1:a:284:ILE:CD1	1:a:300:ARG:HB3	2.44	0.48
1:c:563:SER:HB3	1:d:520:PRO:HG3	1.95	0.48
1:c:745:LYS:HG3	1:d:753:ILE:HD13	1.96	0.48
1:c:771:ILE:HA	1:c:774:ARG:NH1	2.29	0.48
1:d:90:ILE:C	1:d:90:ILE:HD12	2.39	0.48
1:d:113:GLN:O	1:d:114:VAL:HG13	2.14	0.48
1:d:495:PHE:CB	1:d:514:LEU:HD11	2.43	0.48
1:d:502:ALA:HB3	1:d:510:ALA:HB3	1.96	0.48
1:d:504:ARG:HA	1:d:504:ARG:HH11	1.77	0.48
1:d:511:ARG:HH22	1:d:517:LEU:HD11	1.78	0.48
1:e:284:ILE:CD1	1:e:300:ARG:HB3	2.43	0.48
1:f:89:GLU:HA	1:f:90:ILE:HD13	1.96	0.48
1:f:338:GLN:CB	1:f:339:PRO:HD3	2.36	0.48
1:f:343:GLY:HA2	1:f:348:LYS:C	2.38	0.48
1:f:389:TYR:CZ	1:f:457:VAL:HA	2.49	0.48
1:g:338:GLN:CB	1:g:339:PRO:CD	2.89	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:354:GLY:O	1:g:356:CYS:N	2.47	0.48
1:h:60:ILE:O	1:h:60:ILE:HD13	2.14	0.48
1:i:6:ALA:HB1	1:i:42:ARG:HH22	1.78	0.48
1:j:60:ILE:HG22	1:j:66:SER:HA	1.95	0.48
1:k:469:GLN:HB2	1:k:562:PHE:CE1	2.49	0.48
1:l:109:ILE:CD1	1:l:153:PRO:CG	2.89	0.48
1:l:184:ASP:HB3	1:l:187:GLY:O	2.13	0.48
1:l:311:GLN:HB3	1:l:312:PRO:HD2	1.94	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:777:LEU:HD11	1:B:783:LYS:HB2	1.96	0.48
1:A:803:GLY:HA3	1:A:806:THR:HB	1.94	0.48
1:B:236:ARG:HB3	1:B:236:ARG:HH11	1.78	0.48
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:E:268:LEU:HD13	1:E:269:GLY:O	2.14	0.48
1:F:84:ARG:NH1	1:F:85:HIS:HE1	2.12	0.48
1:F:206:PRO:HB2	1:F:209:PHE:CD2	2.49	0.48
1:F:527:ILE:H	1:F:527:ILE:CD1	2.22	0.48
1:H:330:GLN:HB3	1:H:379:ALA:HB3	1.95	0.48
1:I:807:ILE:HD13	1:J:806:THR:HG21	1.96	0.48
1:J:70:GLN:HB3	1:J:104:VAL:N	2.20	0.48
1:J:235:PHE:CE1	1:J:237:ASP:HA	2.48	0.48
1:L:526:VAL:HG22	1:L:540:GLN:HG2	1.96	0.48
1:L:747:LYS:HD3	1:L:747:LYS:HA	1.63	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: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:O:130:GLU:H	1:O:137:VAL:HG13	1.79	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:N	1:Q:151:TYR:CD1	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	Interatomic distance (Å)	Clash overlap (Å)
1:Q:494:GLN:NE2	1:Q:494:GLN:HA	2.28	0.48
1:Q:649:ARG:NH2	1:R:655:GLN:HG2	2.29	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: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:18:VAL:O	1:T:32:PRO:HB3	2.13	0.48
1:T:122:HIS:O	1:T:159:VAL:N	2.32	0.48
1:T:580:ARG:NH2	1:U:595:SER:HB2	2.16	0.48
1:U:286:ASP:N	1:U:287:PRO:HD3	2.28	0.48
1:V:221:LEU:HD21	1:V:256:THR:CG2	2.43	0.48
1:V:236:ARG:HB3	1:V:236:ARG:NH1	2.29	0.48
1:V:771:ILE:HD13	1:V:774:ARG:NH1	2.29	0.48
1:W:60:ILE:HD13	1:W:60:ILE:H	1.78	0.48
1:W:384:GLN:HE21	1:W:384:GLN:N	2.06	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:58:TYR:HD1	1:Y:99:LEU:HD12	1.79	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: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:539:LEU:HD22	1:a:643:VAL:HG22	1.96	0.48
1:a:640:VAL:HG13	1:a:640:VAL:O	2.14	0.48
1:b:183:PHE:CG	1:b:190:ARG:HD3	2.48	0.48
1:b:291:ASP:C	1:b:293:LYS:N	2.67	0.48
1:d:605:GLY:O	1:d:623:ARG:HB2	2.14	0.48
1:e:9:ARG:NH2	1:e:15:TYR:HB3	2.28	0.48
1:e:58:TYR:HD1	1:e:99:LEU:CD1	2.27	0.48
1:e:766:ARG:HG3	1:f:772:TYR:CD1	2.49	0.48
1:f:172:GLN:HG3	1:f:216:VAL:HG12	1.95	0.48
1:f:221:LEU:HA	1:f:253:VAL:HG13	1.95	0.48
1:g:1:MET:O	1:g:2:ALA:HB2	2.13	0.48
1:g:327:SER:CA	1:g:331:GLY:HA3	2.43	0.48
1:h:389:TYR:CZ	1:h:457:VAL:HA	2.48	0.48
1:h:399:ARG:HE	1:h:401:VAL:HG22	1.79	0.48
1:h:526:VAL:HG22	1:h:540:GLN:HG2	1.95	0.48
1:i:67:ARG:HH21	1:i:107:LYS:HA	1.78	0.48
1:i:230:ARG:HD3	1:i:246:GLY:O	2.14	0.48
1:i:291:ASP:C	1:i:293:LYS:H	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:770:LEU:HD23	1:j:772:TYR:HE1	1.79	0.48
1:j:132:LYS:HG3	1:j:133:ASN:H	1.77	0.48
1:j:146:GLU:HA	1:j:146:GLU:OE1	2.13	0.48
1:j:180:LYS:O	1:j:182:CYS:N	2.47	0.48
1:j:194:GLU:HG2	1:j:195:GLU:N	2.28	0.48
1:j:229:LEU:HD23	1:j:266:GLU:HA	1.95	0.48
1:j:332:LEU:HD21	1:j:407:MET:HB3	1.92	0.48
1:k:115:VAL:H	1:k:118:ASN:ND2	2.10	0.48
1:k:759:LEU:HD13	1:l:768:MET:HG3	1.95	0.48
1:k:792:ALA:HA	1:k:795:PHE:HB3	1.95	0.48
1:m:163:ILE:H	1:m:163:ILE:HD12	1.79	0.48
1:A:793:LYS:HE2	1:m:785:GLN:HE21	1.79	0.48
1:B:120:ALA:HB2	1:B:164:GLN:NE2	2.29	0.48
1:C:332:LEU:HD11	1:C:379:ALA:HB2	1.96	0.48
1:C:623:ARG:CG	1:C:624:ASP:H	2.27	0.48
1:E:15:TYR:CE2	1:E:17:HIS:HB3	2.48	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:E:523:PHE:CE1	1:E:568:VAL:HG12	2.49	0.48
1:F:32:PRO:HG2	1:G:11:PRO:HG2	1.96	0.48
1:F:166:THR:HA	1:F:202:GLY:HA2	1.96	0.48
1:G:18:VAL:H	1:G:48:VAL:CG1	2.16	0.48
1:G:465:ASN:ND2	1:G:520:PRO:HD2	2.29	0.48
1:H:115:VAL:O	1:H:118:ASN:HB3	2.13	0.48
1:H:167:VAL:HG13	1:H:202:GLY:H	1.78	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:J:16:ILE:HA	1:J:34:THR:OG1	2.14	0.48
1:J:146:GLU:HA	1:J:146:GLU:OE1	2.13	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:J:481:VAL:HG11	1:J:487:VAL:HG13	1.96	0.48
1:K:523:PHE:CE1	1:K:568:VAL:HG12	2.48	0.48
1:L:11:PRO:CA	1:L:38:GLN:HA	2.38	0.48
1:L:114:VAL:HA	1:L:118:ASN:HD21	1.78	0.48
1:L:122:HIS:HB3	1:L:160:VAL:H	1.79	0.48
1:M:394:LYS:NZ	1:N:329:GLN:HG3	2.29	0.48
1:M:717:GLU:O	1:M:721:ASN:HB2	2.13	0.48
1:N:599:ILE:C	1:N:601:MET:H	2.22	0.48
1:O:579:VAL:HG22	1:O:599:ILE:HG23	1.96	0.48
1:Q:70:GLN:CG	1:Q:104:VAL:H	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:243:HIS:HE2	1:Q:249:TRP:CG	2.32	0.48
1:Q:324:TYR:O	1:Q:365:TYR:N	2.36	0.48
1:R:7:ILE:O	1:R:41:GLU:HG3	2.13	0.48
1:S:67:ARG:HH21	1:S:107:LYS:CA	2.25	0.48
1:S:181:GLU:O	1:S:181:GLU:HG3	2.14	0.48
1:S:221:LEU:HA	1:S:253:VAL:HG13	1.94	0.48
1:S:808:ARG:O	1:S:812:VAL:HG23	2.14	0.48
1:T:402:ILE:HD12	1:T:402:ILE:C	2.39	0.48
1:U:73:VAL:HG21	1:U:82:ARG:HB2	1.95	0.48
1:V:494:GLN:NE2	1:V:494:GLN:HA	2.26	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:74:LEU:HD22	1:a:100:TYR:HE2	1.78	0.48
1:a:516:LEU:HD21	1:a:567:PHE:CE1	2.49	0.48
1:a:529:ILE:HD12	1:a:583:VAL:HG11	1.95	0.48
1:b:564:VAL:CG2	1:b:631:ASN:ND2	2.77	0.48
1:c:10:ILE:HD13	1:c:13:TYR:CE2	2.49	0.48
1:c:164:GLN:CD	1:c:204:TYR:HB3	2.38	0.48
1:c:517:LEU:H	1:c:517:LEU:HD12	1.77	0.48
1:d:327:SER:HB2	1:d:331:GLY:HA3	1.94	0.48
1:d:709:LEU:HA	1:d:712:MET:HE3	1.95	0.48
1:e:68:ASP:O	1:e:106:GLU:HB2	2.13	0.48
1:f:174:LEU:CB	1:f:198:VAL:HB	2.43	0.48
1:g:73:VAL:HG11	1:g:82:ARG:HB2	1.96	0.48
1:g:281:TYR:CD2	1:g:366:VAL:HG13	2.48	0.48
1:g:388:ILE:H	1:g:388:ILE:HD13	1.79	0.48
1:g:419:LEU:CD2	1:g:422:GLY:H	2.27	0.48
1:h:204:TYR:O	1:h:206:PRO:HD3	2.14	0.48
1:h:490:ASP:O	1:h:491:PRO:C	2.57	0.48
1:i:125:ALA:O	1:i:140:GLY:HA2	2.13	0.48
1:i:239:ARG:NH2	1:i:257:GLU:HG2	2.29	0.48
1:i:766:ARG:O	1:i:770:LEU:HB2	2.13	0.48
1:j:154:GLN:CG	1:j:155:LYS:HE3	2.44	0.48
1:j:522:PHE:CD2	1:j:522:PHE:C	2.92	0.48
1:k:3:THR:HG22	1:k:50:MET:HE2	1.96	0.48
1:k:137:VAL:HG23	1:k:143:TRP:HE1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:164:GLN:HB3	1:k:204:TYR:HA	1.95	0.48
1:m:175:ARG:HA	1:m:196:TRP:O	2.13	0.48
1:A:221:LEU:CD2	1:A:256:THR:CB	2.91	0.47
1:A:474:ARG:CG	1:A:492:GLU:HB2	2.42	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:C:803:GLY:HA3	1:C:806:THR:HB	1.96	0.47
1:D:180:LYS:C	1:D:182:CYS:N	2.71	0.47
1:D:566:ASP:OD2	1:D:569:GLY:HA3	2.14	0.47
1:E:623:ARG:HG3	1:E:624:ASP:H	1.78	0.47
1:F:490:ASP:O	1:F:491:PRO:C	2.57	0.47
1:F:549:LEU:HD12	1:F:552:ARG:HA	1.96	0.47
1:H:236:ARG:HB3	1:H:236:ARG:NH1	2.29	0.47
1:I:120:ALA:O	1:I:161:GLU:HA	2.14	0.47
1:J:414:LEU:HB3	1:J:455:THR:HG21	1.95	0.47
1:J:777:LEU:CD1	1:K:783:LYS:HB2	2.44	0.47
1:J:794:LYS:HD3	1:J:798:MET:HG3	1.96	0.47
1:K:63:ASN:N	1:K:64:PRO:HD2	2.29	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: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: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: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:N	1:M:296:LEU:HD22	2.29	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:HD12	1:Q:359:ILE:O	2.13	0.47
1:Q:725:GLU:O	1:Q:728:SER:HB3	2.13	0.47
1:R:138:MET:SD	1:S:148:PRO:HG2	2.54	0.47
1:S:115:VAL:O	1:S:118:ASN:CB	2.57	0.47
1:S:227:LEU:HD13	1:S:229:LEU:HD21	1.95	0.47
1:S:276:LEU:O	1:S:277:GLY:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:594:ASN:O	1:S:595:SER:C	2.57	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:HA	1:W:676:GLU:OE1	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:252:THR:H	1:a:254:GLN:NE2	2.12	0.47
1:a:340:LEU:HG	1:a:353:ALA:N	2.26	0.47
1:a:734:ARG:HH21	1:a:735:ILE:CD1	2.24	0.47
1:d:221:LEU:HA	1:d:253:VAL:HG13	1.96	0.47
1:e:395:THR:HB	1:e:397:LYS:H	1.79	0.47
1:f:165:ALA:O	1:f:203:ALA:O	2.32	0.47
1:g:1:MET:HE1	1:g:47:PRO:HB3	1.91	0.47
1:g:230:ARG:HG2	1:g:248:GLU:HG2	1.96	0.47
1:g:326:LEU:HD13	1:g:360:ARG:HA	1.96	0.47
1:g:333:LEU:HD23	1:g:376:GLU:HA	1.95	0.47
1:i:109:ILE:CD1	1:i:153:PRO:HG2	2.44	0.47
1:j:297:GLY:O	1:k:276:LEU:HD22	2.14	0.47
1:j:339:PRO:HD2	1:j:370:LYS:HB3	1.96	0.47
1:k:109:ILE:CD1	1:k:153:PRO:HG2	2.44	0.47
1:l:8:ILE:HG22	1:l:40:ASN:ND2	2.29	0.47
1:l:395:THR:HG21	1:l:397:LYS:HE2	1.96	0.47
1:m:796:LYS:HA	1:m:799:THR:HG22	1.96	0.47
1:B:43:VAL:HG12	1:B:45:PHE:O	2.14	0.47
1:B:164:GLN:NE2	1:B:204:TYR:CB	2.78	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:C:109:ILE:HD12	1:C:153:PRO:HB2	1.88	0.47
1:D:337:LEU:HD23	1:D:337:LEU:H	1.78	0.47
1:D:398:VAL:HG11	1:D:415:TRP:CD2	2.49	0.47
1:E:19:LEU:HA	1:E:32:PRO:HB2	1.95	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:O	1:F:486:LEU:HD23	2.13	0.47
1:G:36:ILE:HG21	1:G:99:LEU:HD13	1.95	0.47
1:G:799:THR:HG21	1:H:801:ALA:HB1	1.96	0.47
1:H:73:VAL:N	1:H:84:ARG:HB2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:HIS:HB3	1:I:160:VAL:H	1.79	0.47
1:I:560:LYS:HD2	1:I:630:GLN:O	2.13	0.47
1:I:623:ARG:CG	1:I:624:ASP:H	2.27	0.47
1:J:1:MET:O	1:J:2:ALA:HB2	2.14	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: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:L:469:GLN:HB3	1:L:496:THR:CG2	2.43	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:HG3	1:P:452:ARG:NH1	2.29	0.47
1:Q:234:ASN:ND2	1:Q:245:THR:H	2.13	0.47
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:224:LYS:C	1:R:272:PRO:HD3	2.39	0.47
1:R:276:LEU:O	1:R:277:GLY:C	2.58	0.47
1:R:654:LEU:CD1	1:S:662:ILE:HD12	2.43	0.47
1:S:60:ILE:HD13	1:S:93:ALA:O	2.14	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:750:ALA:C	1:S:752:ALA:H	2.22	0.47
1:T:84:ARG:HH22	1:T:101:PRO:HD2	1.79	0.47
1:U:3:THR:HG22	1:U:50:MET:HE1	1.97	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:58:TYR:HD1	1:a:99:LEU:HD12	1.80	0.47
1:a:130:GLU:HA	1:a:137:VAL:H	1.78	0.47
1:b:8:ILE:HG22	1:b:40:ASN:HD21	1.79	0.47
1:b:284:ILE:HG12	1:b:287:PRO:HB3	1.96	0.47
1:c:338:GLN:HB2	1:c:339:PRO:HD3	1.93	0.47
1:d:54:PRO:CB	1:d:55:PRO:HD3	2.35	0.47
1:d:687:ARG:HG2	1:d:691:GLN:HE21	1.78	0.47
1:e:123:LEU:CG	1:e:143:TRP:HB2	2.43	0.47
1:f:327:SER:O	1:f:328:GLU:C	2.57	0.47
1:g:192:THR:HG23	1:h:202:GLY:HA3	1.96	0.47
1:h:15:TYR:CE2	1:h:17:HIS:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:327:SER:CA	1:h:331:GLY:HA3	2.44	0.47
1:j:77:ILE:HG13	1:j:80:GLN:H	1.79	0.47
1:j:255:ASP:OD2	1:j:257:GLU:HB3	2.14	0.47
1:k:589:ASP:HB2	1:l:665:THR:HG21	1.95	0.47
1:l:154:GLN:HG3	1:l:155:LYS:CE	2.45	0.47
1:l:326:LEU:HD23	1:l:326:LEU:HA	1.76	0.47
1:l:339:PRO:HD2	1:l:370:LYS:HB3	1.95	0.47
1:m:23:SER:HB3	1:m:31:GLY:C	2.39	0.47
1:B:64:PRO:HA	1:B:111:PRO:HD2	1.95	0.47
1:C:771:ILE:HA	1:C:774:ARG:NH1	2.29	0.47
1:D:36:ILE:O	1:D:37:ARG:HG3	2.13	0.47
1:D:74:LEU:HD22	1:D:100:TYR:HE2	1.79	0.47
1:D:402:ILE:O	1:D:402:ILE:HD12	2.15	0.47
1:F:527:ILE:CD1	1:F:539:LEU:HB2	2.35	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: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:K:697:SER:HB3	1:L:706:LEU:HB2	1.96	0.47
1:L:14:HIS:HA	1:L:36:ILE:HB	1.96	0.47
1:M:1:MET:HE1	1:M:47:PRO:HB3	1.93	0.47
1:M:16:ILE:HA	1:M:34:THR:OG1	2.13	0.47
1:M:24:ASN:ND2	1:M:30:VAL:HB	2.27	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
1:O:18:VAL:N	1:O:48:VAL:HG13	2.18	0.47
1:O:173:ALA:HB1	1:O:198:VAL:O	2.14	0.47
1:P:326:LEU:HD23	1:P:326:LEU:HA	1.69	0.47
1:P:533:ASP:OD1	1:P:533:ASP:N	2.46	0.47
1:Q:93:ALA:C	1:Q:95:ASP:H	2.23	0.47
1:Q:244:ARG:HB3	1:R:221:LEU:CD2	2.44	0.47
1:Q:276:LEU:O	1:Q:277:GLY:C	2.57	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Y:394:LYS:HZ3	1:Z:329:GLN:HB2	1.78	0.47
1:Z:220:ILE:C	1:Z:222:THR:N	2.71	0.47
1:a:128:ASP:C	1:a:129:PHE:CD1	2.92	0.47
1:b:273:ILE:HG21	1:b:316:LEU:HD11	1.96	0.47
1:c:58:TYR:CD1	1:c:98:PRO:HA	2.48	0.47
1:e:30:VAL:HG22	1:e:74:LEU:HG	1.96	0.47
1:e:337:LEU:HD12	1:e:339:PRO:O	2.14	0.47
1:e:501:SER:HA	1:e:507:ARG:O	2.14	0.47
1:f:551:ASN:HB3	1:f:554:ASP:CB	2.44	0.47
1:g:60:ILE:N	1:g:60:ILE:HD13	2.30	0.47
1:g:154:GLN:HG3	1:g:155:LYS:HE3	1.96	0.47
1:g:318:ARG:O	1:g:319:GLY:C	2.58	0.47
1:g:327:SER:N	1:g:331:GLY:HA3	2.29	0.47
1:g:653:ALA:HB3	1:h:662:ILE:HD13	1.96	0.47
1:i:236:ARG:HB3	1:i:236:ARG:NH1	2.29	0.47
1:j:60:ILE:HG12	1:j:92:LEU:O	2.14	0.47
1:j:65:VAL:HA	1:j:110:THR:HG22	1.95	0.47
1:j:600:ARG:NH1	1:j:622:ALA:HB3	2.29	0.47
1:k:67:ARG:HH21	1:k:107:LYS:CA	2.23	0.47
1:k:409:THR:O	1:k:410:GLN:C	2.58	0.47
1:l:523:PHE:CD1	1:l:545:TRP:NE1	2.83	0.47
1:l:531:THR:HG21	1:l:588:PHE:HA	1.95	0.47
1:l:587:THR:HG23	1:l:590:ASP:CB	2.44	0.47
1:m:389:TYR:CZ	1:m:457:VAL:HA	2.49	0.47
1:m:660:LEU:HA	1:m:663:GLU:HB3	1.96	0.47
1:m:811:ALA:C	1:m:813:ALA:H	2.22	0.47
1:A:697:SER:CA	1:B:706:LEU:HD23	2.44	0.47
1:C:529:ILE:C	1:C:529:ILE:HD12	2.39	0.47
1:C:595:SER:O	1:C:599:ILE:HG12	2.15	0.47
1:E:24:ASN:HD22	1:E:30:VAL:HB	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:GLY:CA	1:H:405:THR:HG23	2.44	0.47
1:H:251:VAL:CG2	1:H:254:GLN:HE21	2.19	0.47
1:H:571:ALA:O	1:H:575:ILE:HG12	2.14	0.47
1:I:36:ILE:O	1:I:37:ARG:HG3	2.14	0.47
1:J:64:PRO:HA	1:J:111:PRO:HD2	1.96	0.47
1:J:597:ARG:O	1:J:601:MET:HB2	2.15	0.47
1:L:523:PHE:CD1	1:L:568:VAL:HG12	2.50	0.47
1:M:229:LEU:HD23	1:M:266:GLU:HA	1.97	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: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:243:HIS:HE2	1:Y:249:TRP:CG	2.32	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:332:LEU:HD23	1:a:358:LEU:HD11	1.96	0.47
1:b:20:ASP:N	1:b:49:ARG:CD	2.76	0.47
1:b:226:ALA:O	1:b:269:GLY:HA2	2.14	0.47
1:b:330:GLN:CG	1:b:379:ALA:HB3	2.45	0.47
1:c:4:GLU:OE2	1:c:6:ALA:HB2	2.15	0.47
1:c:251:VAL:HG23	1:c:254:GLN:HE21	1.79	0.47
1:d:5:GLU:CG	1:d:43:VAL:HG21	2.43	0.47
1:d:382:LEU:HB2	1:d:404:SER:O	2.14	0.47
1:d:771:ILE:HD13	1:d:774:ARG:HH11	1.75	0.47
1:g:221:LEU:CD2	1:g:256:THR:HB	2.44	0.47
1:h:63:ASN:N	1:h:64:PRO:HD2	2.28	0.47
1:h:100:TYR:HB3	1:h:101:PRO:HD2	1.96	0.47
1:h:100:TYR:HD2	1:h:101:PRO:HD3	1.80	0.47
1:h:251:VAL:HG23	1:h:254:GLN:NE2	2.29	0.47
1:h:268:LEU:HD13	1:h:269:GLY:N	2.28	0.47
1:h:649:ARG:HH21	1:i:655:GLN:HG2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:116:LEU:CB	1:j:117:PRO:HD2	2.39	0.47
1:j:296:LEU:HD22	1:j:296:LEU:N	2.28	0.47
1:j:540:GLN:O	1:j:641:GLN:HG2	2.14	0.47
1:k:339:PRO:HG2	1:k:370:LYS:HE2	1.96	0.47
1:k:472:ASP:HA	1:k:493:GLU:CB	2.44	0.47
1:k:549:LEU:HD12	1:k:552:ARG:HA	1.96	0.47
1:m:185:ARG:HG3	1:m:206:PRO:HB3	1.95	0.47
1:A:472:ASP:HA	1:A:493:GLU:CB	2.42	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:B:224:LYS:O	1:B:272:PRO:HD3	2.14	0.47
1:B:409:THR:O	1:B:410:GLN:C	2.58	0.47
1:B:682:GLN:O	1:B:683:GLU:C	2.58	0.47
1:C:243:HIS:NE2	1:C:249:TRP:CD2	2.77	0.47
1:F:69:THR:O	1:F:88:GLN:HG3	2.14	0.47
1:F:70:GLN:HG2	1:F:104:VAL:H	1.78	0.47
1:F:128:ASP:HB2	1:F:155:LYS:HB3	1.94	0.47
1:F:130:GLU:HB2	1:F:136:LYS:CA	2.45	0.47
1:F:664:ILE:O	1:F:668:SER:HB2	2.15	0.47
1:F:704:LYS:HD2	1:G:712:MET:HB3	1.95	0.47
1:G:185:ARG:HH22	1:G:207:ALA:HB3	1.79	0.47
1:G:243:HIS:HE2	1:G:249:TRP:CG	2.32	0.47
1:G:417:LYS:O	1:G:418:GLU:HB2	2.14	0.47
1:I:176:LEU:HB2	1:I:196:TRP:CB	2.39	0.47
1:J:394:LYS:HZ3	1:K:329:GLN:HB2	1.78	0.47
1:K:183:PHE:HA	1:K:190:ARG:HD3	1.96	0.47
1:K:701:LYS:HG3	1:L:709:LEU:HD13	1.96	0.47
1:M:10:ILE:CG2	1:M:11:PRO:HD2	2.44	0.47
1:M:771:ILE:HD13	1:M:774:ARG:HH11	1.75	0.47
1:N:67:ARG:HG2	1:N:108:ASP:HA	1.95	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:O:328:GLU:O	1:O:329:GLN:C	2.56	0.47
1:P:330:GLN:O	1:P:378:GLN:NE2	2.47	0.47
1:P:494:GLN:HA	1:P:494:GLN:NE2	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:63:ASN:N	1:S:64:PRO:HD2	2.29	0.47
1:S:170:GLN:HE21	1:S:256:THR:HG23	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:535:ALA:HA	1:T:658:VAL:HG21	1.95	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:HA	1:Y:676:GLU:OE1	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:HE21	1:Z:648:GLN:HA	1.79	0.47
1:Z:697:SER:HA	1:a:706:LEU:HD23	1.95	0.47
1:a:67:ARG:HH21	1:a:107:LYS:HA	1.80	0.47
1:a:122:HIS:HB3	1:a:160:VAL:H	1.79	0.47
1:b:134:GLY:O	1:b:135:ASP:CB	2.60	0.47
1:b:180:LYS:O	1:b:182:CYS:N	2.48	0.47
1:b:474:ARG:HH22	1:c:384:GLN:HG2	1.78	0.47
1:c:249:TRP:CD1	1:c:249:TRP:H	2.32	0.47
1:d:249:TRP:N	1:d:249:TRP:CD1	2.82	0.47
1:e:318:ARG:O	1:e:319:GLY:C	2.58	0.47
1:f:159:VAL:HG12	1:f:160:VAL:HG22	1.96	0.47
1:f:676:GLU:HA	1:f:676:GLU:OE1	2.14	0.47
1:f:794:LYS:O	1:f:798:MET:HG2	2.15	0.47
1:g:452:ARG:HG3	1:g:452:ARG:NH1	2.29	0.47
1:g:762:VAL:HG12	1:h:768:MET:CE	2.39	0.47
1:h:53:VAL:CG1	1:h:56:ARG:HG3	2.44	0.47
1:h:132:LYS:HZ2	1:h:152:ILE:HG23	1.80	0.47
1:i:235:PHE:CE1	1:i:237:ASP:HA	2.50	0.47
1:j:260:VAL:CB	1:j:263:VAL:HA	2.29	0.47
1:k:68:ASP:HA	1:k:90:ILE:HA	1.97	0.47
1:m:523:PHE:CD1	1:m:545:TRP:NE1	2.82	0.47
1:m:560:LYS:HD2	1:m:630:GLN:O	2.13	0.47
1:A:63:ASN:N	1:A:64:PRO:HD2	2.29	0.47
1:C:60:ILE:HG22	1:C:66:SER:HA	1.96	0.47
1:C:164:GLN:NE2	1:C:204:TYR:HB2	2.30	0.47
1:D:766:ARG:HD2	1:E:768:MET:HE1	1.96	0.47
1:E:182:CYS:HB2	1:E:208:VAL:HB	1.95	0.47
1:F:329:GLN:NE2	1:F:330:GLN:HG2	2.30	0.47
1:F:468:VAL:HG12	1:F:469:GLN:N	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:180:LYS:HD2	1:G:208:VAL:HG12	1.95	0.47
1:G:760:GLU:O	1:G:764:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:19:LEU:HA	1:H:32:PRO:HB2	1.95	0.47
1:H:276:LEU:HD13	1:H:278:PRO:HD2	1.97	0.47
1:H:277:GLY:HA2	1:H:305:GLU:N	2.29	0.47
1:I:49:ARG:HH12	1:J:8:ILE:HD13	1.79	0.47
1:I:235:PHE:HE1	1:I:237:ASP:HA	1.80	0.47
1:I:419:LEU:CD1	1:I:494:GLN:NE2	2.76	0.47
1:I:662:ILE:O	1:I:666:THR:HB	2.14	0.47
1:J:16:ILE:HD13	1:J:34:THR:HG21	1.96	0.47
1:J:235:PHE:HE1	1:J:237:ASP:HA	1.80	0.47
1:J:276:LEU:O	1:J:277:GLY:C	2.57	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: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:8:ILE:HG22	1:R:40:ASN:HD21	1.77	0.47
1:R:324:TYR:O	1:R:365:TYR:N	2.40	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:252:THR:O	1:U:253:VAL:C	2.58	0.47
1:U:802:LEU:HD12	1:U:806:THR:HG22	1.96	0.47
1:V:46:ALA:N	1:V:47:PRO:HD3	2.29	0.47
1:V:114:VAL:HA	1:V:118:ASN:ND2	2.30	0.47
1:V:734:ARG:HG2	1:W:742:LEU:HD12	1.96	0.47
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:N	1:a:13:TYR:CD1	2.83	0.47
1:a:60:ILE:CD1	1:a:93:ALA:HA	2.35	0.47
1:b:65:VAL:HA	1:b:110:THR:HG22	1.97	0.47
1:c:11:PRO:CA	1:c:38:GLN:HA	2.39	0.47
1:c:29:GLU:O	1:c:84:ARG:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:750:ALA:O	1:c:753:ILE:HG22	2.14	0.47
1:d:124:LYS:HB2	1:d:142:GLU:HG2	1.96	0.47
1:e:56:ARG:HH11	1:e:99:LEU:CD2	2.26	0.47
1:e:116:LEU:C	1:e:118:ASN:N	2.73	0.47
1:f:283:VAL:HB	1:f:317:GLU:HB3	1.96	0.47
1:g:183:PHE:HE2	1:g:188:LYS:HA	1.79	0.47
1:g:533:ASP:OD1	1:g:588:PHE:N	2.43	0.47
1:g:654:LEU:HD12	1:h:662:ILE:HD12	1.97	0.47
1:i:36:ILE:O	1:i:37:ARG:HG3	2.15	0.47
1:i:354:GLY:HA3	1:j:328:GLU:HG3	1.96	0.47
1:i:654:LEU:HD11	1:j:662:ILE:HG21	1.96	0.47
1:j:273:ILE:HG12	1:j:310:LEU:HG	1.97	0.47
1:j:327:SER:HB2	1:j:331:GLY:HA2	1.94	0.47
1:j:418:GLU:HG2	1:j:423:VAL:HG22	1.96	0.47
1:j:747:LYS:HD3	1:j:747:LYS:HA	1.62	0.47
1:k:16:ILE:HG12	1:k:34:THR:HG21	1.97	0.47
1:k:601:MET:HG2	1:k:622:ALA:HB2	1.96	0.47
1:m:220:ILE:O	1:m:253:VAL:HG22	2.15	0.47
1:A:69:THR:HA	1:A:106:GLU:CB	2.45	0.47
1:A:337:LEU:HD22	1:A:357:TRP:CZ3	2.40	0.47
1:A:601:MET:HG2	1:A:622:ALA:CB	2.41	0.47
1:B:2:ALA:HB3	1:B:46:ALA:O	2.14	0.47
1:B:60:ILE:H	1:B:60:ILE:CD1	2.19	0.47
1:B:113:GLN:O	1:B:114:VAL:HG13	2.14	0.47
1:B:529:ILE:CD1	1:B:537:LEU:HB2	2.45	0.47
1:B:587:THR:HG23	1:B:590:ASP:CB	2.44	0.47
1:C:8:ILE:HG22	1:C:40:ASN:ND2	2.30	0.47
1:C:166:THR:HA	1:C:202:GLY:HA2	1.96	0.47
1:C:273:ILE:HG21	1:C:316:LEU:HD11	1.97	0.47
1:C:281:TYR:CE1	1:C:321:GLN:HB2	2.49	0.47
1:C:781:VAL:HG21	1:D:786:GLN:OE1	2.15	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:8:ILE:H	1:E:8:ILE:CD1	2.25	0.47
1:E:36:ILE:HD11	1:E:58:TYR:CE1	2.50	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:332:LEU:CD2	1:F:407:MET:HB2	2.41	0.47
1:F:398:VAL:H	1:G:384:GLN:CD	2.21	0.47
1:G:46:ALA:N	1:G:47:PRO:HD3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:235:PHE:CE1	1:G:264:TYR:CE1	3.03	0.47
1:G:560:LYS:HD2	1:G:630:GLN:O	2.15	0.47
1:H:36:ILE:HD12	1:H:98:PRO:HB3	1.97	0.47
1:H:340:LEU:HD23	1:H:353:ALA:H	1.79	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:72:SER:HB3	1:I:84:ARG:HH21	1.78	0.47
1:I:589:ASP:HB2	1:J:665:THR:HG21	1.96	0.47
1:I:786:GLN:O	1:I:789:ASN:HB2	2.14	0.47
1:J:115:VAL:H	1:J:118:ASN:ND2	2.05	0.47
1:J:408:LEU:HD21	1:J:414:LEU:HD12	1.96	0.47
1:K:36:ILE:HG21	1:K:99:LEU:CD1	2.44	0.47
1:K:243:HIS:NE2	1:K:249:TRP:CD2	2.73	0.47
1:K:249:TRP:CD1	1:K:249:TRP:N	2.83	0.47
1:K:752:ALA:O	1:K:756:GLU:HB2	2.14	0.47
1:L:127:LEU:HB3	1:M:64:PRO:HD3	1.97	0.47
1:L:191:VAL:HG12	1:L:194:GLU:HB2	1.97	0.47
1:L:382:LEU:N	1:L:405:THR:HG22	2.29	0.47
1:L:579:VAL:HG13	1:L:599:ILE:CD1	2.45	0.47
1:L:600:ARG:NH1	1:L:622:ALA:HB3	2.30	0.47
1:L:653:ALA:HB3	1:M:662:ILE:HD13	1.93	0.47
1:L:683:GLU:CD	1:L:683:GLU:C	2.82	0.47
1:M:288:MET:CE	1:M:294:ASN:ND2	2.78	0.47
1:M:324:TYR:HB2	1:M:365:TYR:O	2.15	0.47
1:M:496:THR:CG2	1:M:496:THR:O	2.63	0.47
1:M:508:PRO:O	1:M:509:HIS:HD2	1.98	0.47
1:M:579:VAL:CG1	1:M:599:ILE:HD12	2.45	0.47
1:N:124:LYS:O	1:N:156:GLU:HB3	2.15	0.47
1:N:154:GLN:HG3	1:N:155:LYS:N	2.30	0.47
1:N:164:GLN:CD	1:N:204:TYR:CB	2.87	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:N:485:GLU:HG2	1:N:486:LEU:H	1.80	0.47
1:O:568:VAL:HG23	1:O:569:GLY:N	2.30	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:196:TRP:HA	1:Q:196:TRP:HE3	1.79	0.47
1:Q:245:THR:CG2	1:R:219:VAL:HG11	2.41	0.47
1:Q:402:ILE:HD12	1:Q:402:ILE:C	2.40	0.47
1:Q:523:PHE:CD1	1:Q:545:TRP:NE1	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:205:LEU:HD22	1:R:211:GLU:HB2	1.96	0.47
1:R:310:LEU:HD21	1:R:316:LEU:HG	1.97	0.47
1:R:336:ALA:HA	1:R:356:CYS:HB3	1.97	0.47
1:R:352:GLN:O	1:R:353:ALA:C	2.57	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:122:HIS:CG	1:S:159:VAL:HB	2.50	0.47
1:S:255:ASP:OD2	1:S:257:GLU:HB3	2.14	0.47
1:S:310:LEU:HD12	1:S:310:LEU:H	1.78	0.47
1:S:425:GLU:CD	1:S:425:GLU:N	2.70	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:60:ILE:HG13	1:T:92:LEU:O	2.14	0.47
1:T:73:VAL:HG21	1:T:82:ARG:HB2	1.97	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:T:752:ALA:HA	1:T:755:THR:HG22	1.96	0.47
1:U:69:THR:HG21	1:U:91:ARG:NH2	2.30	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: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:V:204:TYR:O	1:V:206:PRO:HD3	2.13	0.47
1:V:287:PRO:O	1:V:295:GLN:HB2	2.15	0.47
1:V:519:GLY:O	1:V:521:ASP:N	2.38	0.47
1:W:60:ILE:H	1:W:60:ILE:CD1	2.27	0.47
1:W:175:ARG:HB2	1:W:213:LEU:O	2.14	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:529:ILE:HD12	1:W:583:VAL:CG1	2.37	0.47
1:X:20:ASP:HB2	1:X:49:ARG:HD3	1.96	0.47
1:X:714:MET:HA	1:X:714:MET:HE3	1.96	0.47
1:Y:5:GLU:HG2	1:Y:43:VAL:HG21	1.97	0.47
1:Y:176:LEU:HB2	1:Y:196:TRP:CB	2.42	0.47
1:Y:181:GLU:HB3	1:Z:116:LEU:HD13	1.96	0.47
1:Y:327:SER:HB2	1:Y:330:GLN:C	2.39	0.47
1:Z:474:ARG:HH22	1:a:384:GLN:HG2	1.79	0.47
1:Z:573:LYS:HE3	1:a:522:PHE:CZ	2.50	0.47
1:Z:719:THR:HG22	1:a:728:SER:HA	1.97	0.47
1:a:13:TYR:N	1:a:13:TYR:HD1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:125:ALA:HB3	1:a:140:GLY:HA2	1.96	0.47
1:a:396:GLY:CA	1:b:405:THR:HG23	2.45	0.47
1:a:535:ALA:HA	1:b:658:VAL:HG21	1.97	0.47
1:a:654:LEU:HD11	1:b:662:ILE:HG21	1.96	0.47
1:a:660:LEU:HA	1:a:663:GLU:CB	2.44	0.47
1:b:5:GLU:O	1:b:41:GLU:O	2.33	0.47
1:b:19:LEU:HD23	1:b:32:PRO:HB2	1.96	0.47
1:b:100:TYR:HD2	1:b:101:PRO:HD3	1.80	0.47
1:b:184:ASP:HB2	1:b:189:GLY:O	2.14	0.47
1:c:154:GLN:HG3	1:c:155:LYS:HZ1	1.80	0.47
1:c:387:GLY:HA3	1:c:402:ILE:HA	1.97	0.47
1:d:15:TYR:CE2	1:d:17:HIS:HB3	2.50	0.47
1:d:70:GLN:O	1:d:70:GLN:HG3	2.13	0.47
1:d:340:LEU:HD12	1:e:364:GLU:OE1	2.14	0.47
1:e:154:GLN:HG3	1:e:155:LYS:HZ1	1.80	0.47
1:e:249:TRP:N	1:e:249:TRP:CD1	2.82	0.47
1:e:268:LEU:HD13	1:e:269:GLY:N	2.29	0.47
1:e:594:ASN:O	1:e:595:SER:C	2.58	0.47
1:e:705:GLU:O	1:e:709:LEU:HG	2.15	0.47
1:f:32:PRO:HG2	1:g:11:PRO:HG2	1.97	0.47
1:f:398:VAL:HB	1:g:384:GLN:HE22	1.79	0.47
1:f:472:ASP:HA	1:f:493:GLU:CB	2.44	0.47
1:f:586:VAL:HG12	1:f:587:THR:O	2.14	0.47
1:g:181:GLU:O	1:g:190:ARG:HD2	2.15	0.47
1:g:343:GLY:HA2	1:g:348:LYS:C	2.40	0.47
1:g:402:ILE:HD12	1:g:402:ILE:C	2.40	0.47
1:h:83:LEU:HD23	1:h:83:LEU:H	1.80	0.47
1:h:243:HIS:NE2	1:h:249:TRP:CE2	2.83	0.47
1:h:664:ILE:O	1:h:668:SER:HB2	2.15	0.47
1:h:690:ARG:NH2	1:i:698:GLU:HG3	2.29	0.47
1:i:10:ILE:HD13	1:i:13:TYR:CD2	2.49	0.47
1:i:138:MET:HE1	1:j:148:PRO:HG3	1.97	0.47
1:i:164:GLN:OE1	1:i:205:LEU:HG	2.15	0.47
1:i:338:GLN:OE1	1:j:278:PRO:HB3	2.14	0.47
1:j:30:VAL:HA	1:j:74:LEU:HD11	1.96	0.47
1:j:65:VAL:HG13	1:j:110:THR:HG22	1.95	0.47
1:j:139:ALA:CB	1:k:148:PRO:HB2	2.44	0.47
1:j:154:GLN:HG3	1:j:155:LYS:N	2.30	0.47
1:j:285:LEU:HD13	1:j:315:ARG:NH1	2.30	0.47
1:k:67:ARG:CD	1:k:108:ASP:HB3	2.45	0.47
1:k:87:ASP:CG	1:k:88:GLN:N	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:112:LEU:O	1:k:150:THR:HB	2.14	0.47
1:k:806:THR:O	1:k:810:LEU:HB2	2.15	0.47
1:l:340:LEU:HD23	1:l:353:ALA:H	1.79	0.47
1:m:14:HIS:CB	1:m:56:ARG:HB2	2.45	0.47
1:m:18:VAL:CG1	1:m:48:VAL:HG22	2.25	0.47
1:m:109:ILE:HD12	1:m:153:PRO:CB	2.44	0.47
1:m:196:TRP:CE3	1:m:196:TRP:HA	2.49	0.47
1:m:332:LEU:CD2	1:m:358:LEU:HD11	2.44	0.47
1:m:337:LEU:HD22	1:m:357:TRP:HZ3	1.79	0.47
1:A:184:ASP:HB2	1:A:189:GLY:O	2.15	0.47
1:B:661:ALA:HA	1:B:664:ILE:HG12	1.97	0.47
1:D:115:VAL:H	1:D:118:ASN:ND2	2.13	0.47
1:E:18:VAL:HG23	1:E:33:LYS:O	2.15	0.47
1:E:69:THR:O	1:E:88:GLN:HG3	2.15	0.47
1:E:236:ARG:NH1	1:E:236:ARG:HB3	2.29	0.47
1:F:18:VAL:CG1	1:F:48:VAL:HG22	2.30	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:F:601:MET:HE2	1:F:601:MET:HB3	1.69	0.47
1:G:53:VAL:CG1	1:G:56:ARG:HG3	2.45	0.47
1:I:529:ILE:HD12	1:I:537:LEU:HB2	1.96	0.47
1:I:719:THR:HG22	1:J:728:SER:HA	1.97	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:L:221:LEU:HD22	1:L:256:THR:HB	1.97	0.47
1:M:234:ASN:ND2	1:M:245:THR:H	2.13	0.47
1:N:752:ALA:HA	1:N:755:THR:HG22	1.95	0.47
1:O:750:ALA:C	1:O:752:ALA:H	2.23	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: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:R:293:LYS:HG3	1:S:223:GLU:HG3	1.97	0.47
1:S:85:HIS:NE2	1:S:102:GLY:HA3	2.29	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:60:ILE:N	1:U:60:ILE:HD13	2.30	0.47
1:U:106:GLU:O	1:U:107:LYS:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:473:TYR:CE2	1:V:461:ARG:HG2	2.49	0.47
1:U:573:LYS:HE3	1:V:522:PHE:CZ	2.49	0.47
1:U:777:LEU:HD11	1:V:783:LYS:CB	2.45	0.47
1:V:589:ASP:HB2	1:W:665:THR:HG21	1.96	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
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: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:Y:402:ILE:C	1:Y:402:ILE:HD12	2.40	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:469:GLN:HB3	1:a:496:THR:CG2	2.44	0.47
1:b:660:LEU:HA	1:b:663:GLU:HB3	1.96	0.47
1:c:281:TYR:CE1	1:c:321:GLN:HB2	2.50	0.47
1:d:176:LEU:HD23	1:d:211:GLU:HA	1.97	0.47
1:d:183:PHE:HA	1:d:190:ARG:HD3	1.96	0.47
1:e:231:ALA:O	1:e:245:THR:HA	2.15	0.47
1:g:85:HIS:NE2	1:g:102:GLY:HA3	2.30	0.47
1:g:352:GLN:O	1:g:353:ALA:C	2.58	0.47
1:h:151:TYR:O	1:h:153:PRO:HD3	2.14	0.47
1:i:328:GLU:HA	1:i:361:GLY:O	2.15	0.47
1:j:340:LEU:HD23	1:j:353:ALA:H	1.80	0.47
1:j:551:ASN:HB3	1:j:554:ASP:HB3	1.97	0.47
1:j:727:GLU:HG3	1:k:735:ILE:HD13	1.97	0.47
1:l:120:ALA:HB2	1:l:164:GLN:NE2	2.30	0.47
1:l:755:THR:OG1	1:m:761:ARG:NE	2.48	0.47
1:l:799:THR:HG21	1:m:801:ALA:HB1	1.97	0.47
1:m:221:LEU:HD13	1:m:255:ASP:O	2.15	0.47
1:m:337:LEU:HD12	1:m:339:PRO:O	2.14	0.47
1:A:5:GLU:O	1:A:41:GLU:O	2.32	0.47
1:A:119:THR:HG23	1:A:163:ILE:HG23	1.97	0.47
1:A:224:LYS:HA	1:A:272:PRO:HG3	1.96	0.47
1:A:384:GLN:OE1	1:m:398:VAL:N	2.46	0.47
1:A:735:ILE:HD13	1:m:727:GLU:HG3	1.96	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:C:679:ARG:HG3	1:D:691:GLN:HE22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:398:VAL:HG11	1:D:415:TRP:CE3	2.50	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:398:VAL:HG11	1:F:415:TRP:CD2	2.49	0.47
1:G:297:GLY:O	1:H:276:LEU:HD22	2.14	0.47
1:H:14:HIS:O	1:H:53:VAL:HB	2.14	0.47
1:H:534:HIS:CD2	1:I:654:LEU:HG	2.50	0.47
1:J:130:GLU:H	1:J:137:VAL:HG12	1.73	0.47
1:J:252:THR:O	1:J:253:VAL:C	2.57	0.47
1:J:260:VAL:O	1:J:262:ASP:N	2.47	0.47
1:K:161:GLU:CD	1:K:161:GLU:H	2.23	0.47
1:K:452:ARG:HG3	1:K:452:ARG:NH1	2.29	0.47
1:L:115:VAL:HA	1:L:147:GLY:O	2.15	0.47
1:L:273:ILE:CD1	1:L:308:PHE:HB3	2.45	0.47
1:L:384:GLN:NE2	1:L:384:GLN:N	2.44	0.47
1:L:389:TYR:OH	1:L:489:LEU:O	2.32	0.47
1:L:663:GLU:O	1:L:666:THR:HG22	2.14	0.47
1:M:762:VAL:HG12	1:N:768:MET:CE	2.43	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:H	1:O:527:ILE:CD1	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:3:THR:H	1:Q:50:MET:HE1	1.79	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:330:GLN:CD	1:R:407:MET:HG3	2.40	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:S:768:MET:C	1:S:770:LEU:H	2.23	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:N	1:W:13:TYR:CD1	2.83	0.47
1:W:60:ILE:HG22	1:W:66:SER:HA	1.96	0.47
1:W:425:GLU:CD	1:W:425:GLU:H	2.22	0.47
1:W:529:ILE:CD1	1:W:583:VAL:HG11	2.39	0.47
1:Y:183:PHE:HA	1:Y:190:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:326:LEU:HD13	1:Z:360:ARG:HA	1.96	0.47
1:Z:332:LEU:HG	1:Z:360:ARG:HB2	1.97	0.47
1:a:58:TYR:HD1	1:a:99:LEU:CD1	2.28	0.47
1:a:72:SER:OG	1:a:102:GLY:O	2.32	0.47
1:b:338:GLN:CB	1:b:339:PRO:CD	2.91	0.47
1:b:522:PHE:CD2	1:b:522:PHE:C	2.92	0.47
1:c:115:VAL:H	1:c:118:ASN:HD22	1.63	0.47
1:d:7:ILE:O	1:d:41:GLU:CG	2.62	0.47
1:d:16:ILE:HD13	1:d:34:THR:HG21	1.97	0.47
1:d:220:ILE:HD12	1:d:252:THR:HA	1.97	0.47
1:e:14:HIS:NE2	1:e:16:ILE:CD1	2.78	0.47
1:e:262:ASP:HB3	1:e:264:TYR:CZ	2.50	0.47
1:f:273:ILE:CD1	1:f:308:PHE:HB3	2.45	0.47
1:g:84:ARG:HH22	1:g:101:PRO:HD2	1.80	0.47
1:g:336:ALA:H	1:g:374:VAL:HG23	1.80	0.47
1:h:11:PRO:HB2	1:h:12:PRO:HD3	1.96	0.47
1:h:249:TRP:N	1:h:249:TRP:CD1	2.83	0.47
1:i:217:ASP:OD1	1:i:257:GLU:O	2.32	0.47
1:i:242:LEU:HD23	1:i:242:LEU:H	1.79	0.47
1:k:76:ASP:HB3	1:k:80:GLN:O	2.15	0.47
1:l:1:MET:HE1	1:l:47:PRO:HB3	1.91	0.47
1:l:115:VAL:HB	1:l:148:PRO:HA	1.96	0.47
1:l:239:ARG:NH2	1:l:257:GLU:HG2	2.30	0.47
1:l:533:ASP:O	1:l:534:HIS:HB2	2.14	0.47
1:m:120:ALA:HB3	1:m:162:ILE:HG13	1.96	0.47
1:m:180:LYS:O	1:m:182:CYS:N	2.47	0.47
1:A:14:HIS:ND1	1:A:36:ILE:HG22	2.27	0.47
1:A:84:ARG:NH2	1:A:101:PRO:HD2	2.29	0.47
1:A:529:ILE:HD13	1:A:583:VAL:HG11	1.97	0.47
1:B:32:PRO:HG2	1:C:11:PRO:HG3	1.96	0.47
1:B:208:VAL:HG23	1:B:209:PHE:HD2	1.80	0.47
1:B:340:LEU:HD12	1:C:364:GLU:OE1	2.15	0.47
1:D:745:LYS:CG	1:E:753:ILE:HD13	2.39	0.47
1:E:61:VAL:HG13	1:E:65:VAL:CG2	2.44	0.47
1:E:398:VAL:H	1:F:384:GLN:CD	2.22	0.47
1:F:384:GLN:H	1:F:384:GLN:NE2	2.13	0.47
1:F:474:ARG:CG	1:F:492:GLU:HB2	2.45	0.47
1:G:333:LEU:HD23	1:G:376:GLU:HA	1.97	0.47
1:G:381:PRO:HA	1:G:405:THR:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:14:HIS:NE2	1:H:16:ILE:HD11	2.30	0.47
1:H:69:THR:O	1:H:88:GLN:HG3	2.14	0.47
1:H:415:TRP:CH2	1:H:417:LYS:HB3	2.50	0.47
1:I:601:MET:CG	1:I:622:ALA:HB2	2.45	0.47
1:K:251:VAL:HA	1:K:254:GLN:HE22	1.80	0.47
1:K:276:LEU:O	1:K:277:GLY:C	2.57	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:O:54:PRO:CB	1:O:55:PRO:HD3	2.41	0.47
1:O:402:ILE:HG23	1:O:457:VAL:HG21	1.97	0.47
1:P:144:LEU:HD12	1:P:144:LEU:H	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:V:633:LEU:HD23	1:V:633:LEU:C	2.40	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:HG12	1:X:812:VAL:O	2.15	0.47
1:Y:116:LEU:C	1:Y:118:ASN:N	2.73	0.47
1:Z:185:ARG:HH22	1:Z:207:ALA:HB3	1.80	0.47
1:a:113:GLN:OE1	1:a:149:GLY:HA2	2.14	0.47
1:a:476:LYS:HG3	1:b:485:GLU:HG3	1.97	0.47
1:b:154:GLN:OE1	1:b:155:LYS:N	2.48	0.47
1:b:171:ASN:O	1:b:216:VAL:HA	2.15	0.47
1:b:249:TRP:CD1	1:b:249:TRP:N	2.84	0.47
1:b:419:LEU:HD23	1:b:421:SER:N	2.30	0.47
1:b:465:ASN:ND2	1:b:520:PRO:HD2	2.30	0.47
1:c:23:SER:HB3	1:c:31:GLY:C	2.40	0.47
1:c:220:ILE:C	1:c:222:THR:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:417:LYS:O	1:c:418:GLU:HB2	2.15	0.47
1:c:771:ILE:HD13	1:c:774:ARG:NH1	2.30	0.47
1:d:46:ALA:H	1:d:47:PRO:HD3	1.78	0.47
1:d:330:GLN:O	1:d:378:GLN:NE2	2.48	0.47
1:e:69:THR:HA	1:e:106:GLU:HB3	1.97	0.47
1:e:129:PHE:O	1:e:130:GLU:HG2	2.14	0.47
1:e:522:PHE:CD2	1:e:522:PHE:C	2.93	0.47
1:e:604:PHE:HD2	1:e:626:ALA:HB2	1.80	0.47
1:f:125:ALA:HB3	1:f:140:GLY:HA2	1.95	0.47
1:f:128:ASP:HB2	1:f:155:LYS:HB3	1.96	0.47
1:f:230:ARG:HB3	1:f:230:ARG:NH1	2.26	0.47
1:f:342:GLU:HA	1:f:350:SER:HA	1.97	0.47
1:f:418:GLU:HB2	1:f:454:LYS:HE3	1.97	0.47
1:h:587:THR:HG23	1:h:590:ASP:HB2	1.96	0.47
1:i:6:ALA:HB1	1:i:42:ARG:NH2	2.31	0.47
1:i:384:GLN:H	1:i:384:GLN:HE21	1.62	0.47
1:i:417:LYS:O	1:i:418:GLU:HB2	2.15	0.47
1:i:543:TYR:HD2	1:i:638:VAL:HG13	1.80	0.47
1:j:234:ASN:N	1:j:234:ASN:HD22	2.11	0.47
1:k:132:LYS:HZ2	1:k:152:ILE:HD11	1.78	0.47
1:l:18:VAL:CG1	1:l:48:VAL:HG22	2.22	0.47
1:l:69:THR:HA	1:l:106:GLU:HB3	1.96	0.47
1:l:220:ILE:C	1:l:222:THR:H	2.21	0.47
1:l:343:GLY:HA2	1:l:348:LYS:HA	1.97	0.47
1:l:352:GLN:O	1:l:353:ALA:C	2.57	0.47
1:m:501:SER:CB	1:m:507:ARG:O	2.61	0.47
1:A:522:PHE:C	1:A:522:PHE:CD2	2.92	0.46
1:D:766:ARG:O	1:D:770:LEU:HB2	2.15	0.46
1:E:60:ILE:HD11	1:E:95:ASP:O	2.15	0.46
1:E:697:SER:CA	1:F:706:LEU:HD23	2.44	0.46
1:F:36:ILE:HD13	1:F:36:ILE:C	2.39	0.46
1:F:180:LYS:O	1:F:182:CYS:N	2.47	0.46
1:F:295:GLN:HG2	1:F:298:GLN:NE2	2.31	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: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:249:TRP:N	1:H:249:TRP:CD1	2.83	0.46
1:I:490:ASP:O	1:I:491:PRO:C	2.56	0.46
1:J:182:CYS:SG	1:J:208:VAL:CG2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:340:LEU:HG	1:J:353:ALA:HB2	1.97	0.46
1:J:351:HIS:CE1	1:J:357:TRP:CE2	3.03	0.46
1:J:417:LYS:O	1:J:418:GLU:HB2	2.14	0.46
1:J:465:ASN:HB3	1:J:519:GLY:HA3	1.95	0.46
1:K:18:VAL:H	1:K:48:VAL:CG1	2.26	0.46
1:K:196:TRP:HA	1:K:196:TRP:HE3	1.78	0.46
1:K:481:VAL:O	1:K:481:VAL:HG13	2.13	0.46
1:L:3:THR:CG2	1:L:50:MET:CE	2.93	0.46
1:L:58:TYR:HD1	1:L:99:LEU:HD11	1.79	0.46
1:L:146:GLU:HG3	1:L:204:TYR:CE2	2.50	0.46
1:M:90:ILE:CG2	1:M:154:GLN:HB2	2.45	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:758:GLU:O	1:M:761:ARG:HB2	2.15	0.46
1:N:49:ARG:CZ	1:O:8:ILE:HD12	2.43	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
1:N:408:LEU:H	1:N:408:LEU:HD12	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: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:T:564:VAL:HG21	1:T:631:ASN:HD22	1.73	0.46
1:T:573:LYS:HD3	1:U:641:GLN:OE1	2.15	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:U:654:LEU:HD12	1:V:662:ILE:CD1	2.45	0.46
1:V:606:PHE:HB2	1:V:622:ALA:HA	1.97	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:697:SER:HB3	1:b:706:LEU:HB2	1.97	0.46
1:b:124:LYS:HB3	1:b:142:GLU:HG2	1.97	0.46
1:c:224:LYS:C	1:c:272:PRO:HD3	2.39	0.46
1:c:281:TYR:CD2	1:c:366:VAL:HG13	2.50	0.46
1:c:336:ALA:H	1:c:374:VAL:HG23	1.80	0.46
1:c:338:GLN:NE2	1:d:279:ARG:HD3	2.30	0.46
1:c:605:GLY:O	1:c:623:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:54:PRO:CB	1:e:55:PRO:HD3	2.32	0.46
1:e:130:GLU:HB2	1:e:136:LYS:HG2	1.97	0.46
1:e:382:LEU:HD13	1:e:387:GLY:HA2	1.95	0.46
1:e:535:ALA:HA	1:f:658:VAL:HG21	1.97	0.46
1:f:69:THR:HA	1:f:106:GLU:HB3	1.97	0.46
1:f:279:ARG:HA	1:f:323:VAL:HG22	1.97	0.46
1:h:163:ILE:H	1:h:163:ILE:CD1	2.18	0.46
1:h:325:VAL:O	1:h:325:VAL:HG13	2.14	0.46
1:h:337:LEU:HD21	1:h:352:GLN:O	2.16	0.46
1:i:10:ILE:HD12	1:i:10:ILE:N	2.20	0.46
1:i:191:VAL:HG12	1:i:194:GLU:HB2	1.96	0.46
1:j:217:ASP:OD1	1:j:218:ALA:N	2.48	0.46
1:j:756:GLU:C	1:j:758:GLU:H	2.22	0.46
1:j:794:LYS:O	1:j:798:MET:HG2	2.16	0.46
1:k:327:SER:H	1:k:331:GLY:HA3	1.78	0.46
1:l:51:VAL:O	1:l:53:VAL:HG23	2.15	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	2.45	0.46
1:m:71:SER:HB3	1:m:89:GLU:HG3	1.95	0.46
1:m:281:TYR:CE1	1:m:321:GLN:HB2	2.50	0.46
1:m:400:ALA:HB2	1:m:491:PRO:HD3	1.97	0.46
1:A:10:ILE:HG23	1:A:11:PRO:HD2	1.97	0.46
1:B:394:LYS:HA	1:C:329:GLN:NE2	2.30	0.46
1:C:252:THR:H	1:C:254:GLN:HE22	1.63	0.46
1:C:273:ILE:HG13	1:C:308:PHE:HB3	1.96	0.46
1:C:328:GLU:OE1	1:C:361:GLY:O	2.34	0.46
1:D:5:GLU:CG	1:D:43:VAL:HG21	2.43	0.46
1:E:83:LEU:H	1:E:83:LEU:HD23	1.80	0.46
1:E:123:LEU:CG	1:E:143:TRP:HB2	2.45	0.46
1:E:221:LEU:HD22	1:E:256:THR:HB	1.96	0.46
1:F:175:ARG:HB3	1:F:212:VAL:HB	1.97	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: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:I:245:THR:OG1	1:J:170:GLN:OE1	2.33	0.46
1:K:164:GLN:HB3	1:K:204:TYR:HA	1.98	0.46
1:K:517:LEU:O	1:K:545:TRP:CH2	2.66	0.46
1:L:61:VAL:CG2	1:L:62:ALA:N	2.78	0.46
1:L:116:LEU:O	1:L:118:ASN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:221:LEU:HD21	1:L:256:THR:CG2	2.35	0.46
1:L:330:GLN:O	1:L:378:GLN:NE2	2.48	0.46
1:M:5:GLU:HG2	1:M:43:VAL:CG2	2.43	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:332:LEU:HD11	1:N:379:ALA:HB2	1.97	0.46
1:N:333:LEU:HD23	1:N:376:GLU:HA	1.96	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: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:P:281:TYR:CE2	1:P:367:PRO:HD2	2.50	0.46
1:Q:71:SER:OG	1:Q:84:ARG:O	2.31	0.46
1:R:77:ILE:CG1	1:R:79:GLY:HA3	2.45	0.46
1:R:221:LEU:HD12	1:R:253:VAL:CG1	2.37	0.46
1:R:288:MET:HE1	1:R:294:ASN:ND2	2.31	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: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:HA	1:U:146:GLU:OE1	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:Z:682:GLN:NE2	1:a:695:ASP:OD2	2.34	0.46
1:a:100:TYR:CB	1:a:101:PRO:CD	2.92	0.46
1:b:279:ARG:O	1:b:323:VAL:N	2.41	0.46
1:b:332:LEU:HG	1:b:360:ARG:HB2	1.97	0.46
1:c:16:ILE:HD13	1:c:34:THR:HG21	1.98	0.46
1:d:70:GLN:HB3	1:d:104:VAL:H	1.80	0.46
1:d:165:ALA:CB	1:d:174:LEU:HD11	2.44	0.46
1:d:165:ALA:HB3	1:d:174:LEU:HD11	1.96	0.46
1:d:239:ARG:NH2	1:d:257:GLU:HG2	2.30	0.46
1:e:135:ASP:C	1:e:136:LYS:HG3	2.40	0.46
1:e:276:LEU:H	1:e:280:HIS:HB2	1.80	0.46
1:e:379:ALA:HB2	1:e:407:MET:HB3	1.97	0.46
1:f:273:ILE:HG21	1:f:316:LEU:HD11	1.96	0.46
1:f:337:LEU:N	1:f:337:LEU:CD2	2.76	0.46
1:f:382:LEU:N	1:f:405:THR:HG22	2.31	0.46
1:f:527:ILE:HD11	1:f:539:LEU:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:532:ALA:HB2	1:f:584:ALA:O	2.15	0.46
1:f:766:ARG:HD2	1:g:768:MET:HE1	1.98	0.46
1:g:234:ASN:ND2	1:g:245:THR:H	2.13	0.46
1:g:795:PHE:O	1:g:799:THR:HG22	2.14	0.46
1:h:230:ARG:HB2	1:h:265:GLU:HB3	1.95	0.46
1:i:5:GLU:HG2	1:i:43:VAL:CG2	2.44	0.46
1:i:60:ILE:N	1:i:60:ILE:HD13	2.30	0.46
1:i:586:VAL:HG12	1:i:587:THR:O	2.14	0.46
1:j:88:GLN:O	1:j:154:GLN:NE2	2.49	0.46
1:j:318:ARG:O	1:j:319:GLY:C	2.58	0.46
1:k:332:LEU:HD21	1:k:407:MET:HB3	1.97	0.46
1:k:360:ARG:HG3	1:k:361:GLY:N	2.29	0.46
1:l:325:VAL:O	1:l:325:VAL:HG13	2.15	0.46
1:l:326:LEU:O	1:l:328:GLU:CD	2.58	0.46
1:l:389:TYR:CZ	1:l:457:VAL:HA	2.50	0.46
1:m:77:ILE:HG13	1:m:79:GLY:H	1.79	0.46
1:A:452:ARG:HG3	1:A:452:ARG:NH1	2.29	0.46
1:A:595:SER:HB2	1:m:580:ARG:HH22	1.79	0.46
1:B:20:ASP:HB2	1:B:49:ARG:HD3	1.97	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:B:419:LEU:HD12	1:B:494:GLN:HE21	1.80	0.46
1:C:110:THR:O	1:C:112:LEU:N	2.49	0.46
1:C:276:LEU:O	1:C:277:GLY:C	2.57	0.46
1:D:10:ILE:H	1:D:10:ILE:CD1	2.19	0.46
1:D:73:VAL:HG11	1:D:82:ARG:HB2	1.96	0.46
1:D:280:HIS:CD2	1:D:322:ASP:HB3	2.51	0.46
1:E:311:GLN:HB3	1:E:312:PRO:HD2	1.96	0.46
1:E:311:GLN:HB2	1:E:314:GLU:HG3	1.97	0.46
1:G:14:HIS:CB	1:G:56:ARG:CB	2.93	0.46
1:G:311:GLN:HB3	1:G:312:PRO:HD2	1.96	0.46
1:G:324:TYR:HE1	1:G:373:VAL:HG21	1.80	0.46
1:H:327:SER:O	1:H:328:GLU:CG	2.63	0.46
1:H:328:GLU:O	1:H:361:GLY:C	2.58	0.46
1:I:243:HIS:NE2	1:I:249:TRP:CE2	2.83	0.46
1:J:6:ALA:HB1	1:J:42:ARG:HH11	1.80	0.46
1:J:245:THR:C	1:J:247:GLU:H	2.23	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:K:30:VAL:HG22	1:K:74:LEU:CG	2.45	0.46
1:O:235:PHE:CE1	1:O:237:ASP:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:43:VAL:CG1	1:S:45:PHE:O	2.62	0.46
1:S:249:TRP:CD1	1:S:249:TRP:N	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: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: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:90:ILE:HD12	1:X:90:ILE:O	2.15	0.46
1:X:183:PHE:CE2	1:X:188:LYS:HA	2.43	0.46
1:X:759:LEU:HD21	1:Y:765:VAL:HG22	1.96	0.46
1:X:803:GLY:C	1:X:805:GLY:N	2.72	0.46
1:Y:19:LEU:HA	1:Y:32:PRO:HB2	1.98	0.46
1:Z:124:LYS:HG2	1:Z:157:VAL:O	2.15	0.46
1:a:261:PRO:HD2	1:a:264:TYR:HB2	1.98	0.46
1:a:311:GLN:N	1:a:314:GLU:HG3	2.30	0.46
1:a:501:SER:CB	1:a:507:ARG:O	2.60	0.46
1:a:511:ARG:NH2	1:a:517:LEU:HD11	2.23	0.46
1:b:183:PHE:HD2	1:b:184:ASP:H	1.62	0.46
1:b:252:THR:H	1:b:254:GLN:HE21	1.63	0.46
1:c:154:GLN:CG	1:c:155:LYS:N	2.78	0.46
1:c:260:VAL:C	1:c:262:ASP:H	2.24	0.46
1:d:224:LYS:C	1:d:272:PRO:HD3	2.41	0.46
1:e:3:THR:CG2	1:e:50:MET:HE1	2.44	0.46
1:e:296:LEU:H	1:e:296:LEU:HD13	1.80	0.46
1:f:250:LEU:HD23	1:f:250:LEU:H	1.80	0.46
1:f:418:GLU:HG2	1:f:423:VAL:HG22	1.97	0.46
1:f:571:ALA:O	1:f:575:ILE:HG12	2.16	0.46
1:f:766:ARG:HG3	1:g:772:TYR:CD1	2.51	0.46
1:g:217:ASP:OD1	1:g:257:GLU:O	2.34	0.46
1:g:252:THR:H	1:g:254:GLN:NE2	2.14	0.46
1:h:3:THR:HG22	1:h:50:MET:CE	2.45	0.46
1:h:60:ILE:H	1:h:60:ILE:HD12	1.81	0.46
1:h:124:LYS:O	1:h:156:GLU:HA	2.14	0.46
1:h:766:ARG:O	1:h:770:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:273:ILE:HD12	1:i:316:LEU:HD21	1.98	0.46
1:j:14:HIS:CB	1:j:56:ARG:CB	2.92	0.46
1:j:16:ILE:HD12	1:j:34:THR:HG21	1.97	0.46
1:j:224:LYS:C	1:j:272:PRO:HD3	2.40	0.46
1:k:260:VAL:C	1:k:262:ASP:H	2.23	0.46
1:k:377:ARG:NH1	1:k:408:LEU:O	2.48	0.46
1:l:591:PHE:O	1:l:595:SER:N	2.48	0.46
1:A:305:GLU:CD	1:m:298:GLN:HG3	2.40	0.46
1:A:490:ASP:O	1:A:491:PRO:C	2.58	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:18:VAL:H	1:C:48:VAL:CG1	2.23	0.46
1:D:36:ILE:HD11	1:D:58:TYR:CE1	2.51	0.46
1:E:90:ILE:CG2	1:E:154:GLN:HB2	2.45	0.46
1:E:109:ILE:CD1	1:E:153:PRO:HG2	2.45	0.46
1:E:130:GLU:HB2	1:E:136:LYS:CG	2.44	0.46
1:E:338:GLN:CB	1:E:339:PRO:CD	2.90	0.46
1:F:15:TYR:CE2	1:F:17:HIS:HB3	2.51	0.46
1:F:535:ALA:HA	1:G:658:VAL:HG21	1.97	0.46
1:G:121:LEU:HB2	1:G:145:PHE:CB	2.44	0.46
1:H:46:ALA:H	1:H:47:PRO:HD3	1.81	0.46
1:I:518:LEU:HA	1:I:547:PHE:HD1	1.81	0.46
1:J:63:ASN:O	1:J:111:PRO:HG3	2.15	0.46
1:J:505:PRO:O	1:J:506:LYS:HB2	2.15	0.46
1:J:729:ARG:HB2	1:J:729:ARG:HH11	1.79	0.46
1:K:5:GLU:HG2	1:K:43:VAL:CG2	2.46	0.46
1:K:51:VAL:O	1:K:53:VAL:HG23	2.15	0.46
1:K:152:ILE:HG12	1:K:154:GLN:HB3	1.97	0.46
1:L:14:HIS:HB2	1:L:56:ARG:HB2	1.97	0.46
1:L:252:THR:O	1:L:253:VAL:C	2.57	0.46
1:M:69:THR:HA	1:M:106:GLU:HB3	1.97	0.46
1:M:319:GLY:C	1:M:320:ILE:HD13	2.40	0.46
1:P:20:ASP:HB2	1:P:49:ARG:HD3	1.98	0.46
1:P:58:TYR:HD1	1:P:99:LEU:HD12	1.80	0.46
1:P:205:LEU:HD22	1:P:211:GLU:HB2	1.98	0.46
1:P:390:VAL:HG12	1:P:408:LEU:HD23	1.96	0.46
1:P:527:ILE:HD13	1:P:539:LEU:O	2.16	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:62:ALA:O	1:S:93:ALA:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:339:PRO:HD2	1:S:370:LYS:HB3	1.98	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:V:16:ILE:HA	1:V:34:THR:OG1	2.16	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: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:399:ARG:HA	1:W:491:PRO:HG3	1.98	0.46
1:W:472:ASP:HA	1:W:493:GLU:CB	2.42	0.46
1:X:332:LEU:HD21	1:X:407:MET:CB	2.45	0.46
1:X:334:LEU:HD23	1:X:334:LEU:C	2.41	0.46
1:Y:60:ILE:HD11	1:Y:95:ASP:O	2.15	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:589:ASP:HB2	1:Z:665:THR:HG21	1.96	0.46
1:Z:123:LEU:HG	1:Z:143:TRP:HB2	1.97	0.46
1:Z:426:LEU:C	1:Z:428:ASN:H	2.23	0.46
1:a:185:ARG:HG3	1:a:206:PRO:HB3	1.98	0.46
1:a:360:ARG:CG	1:a:361:GLY:N	2.78	0.46
1:c:402:ILE:C	1:c:402:ILE:HD12	2.41	0.46
1:d:623:ARG:HG2	1:d:624:ASP:H	1.80	0.46
1:e:60:ILE:HD11	1:e:95:ASP:O	2.15	0.46
1:e:382:LEU:H	1:e:405:THR:HA	1.79	0.46
1:e:759:LEU:HD22	1:f:768:MET:HG3	1.97	0.46
1:h:38:GLN:H	1:h:38:GLN:HG2	1.52	0.46
1:h:551:ASN:HB3	1:h:554:ASP:HB3	1.97	0.46
1:h:693:ILE:HD11	1:i:703:ARG:HH21	1.79	0.46
1:i:177:ARG:HB3	1:i:210:GLU:HB3	1.98	0.46
1:i:267:VAL:O	1:i:268:LEU:HB2	2.15	0.46
1:j:36:ILE:HG21	1:j:99:LEU:H	1.81	0.46
1:j:426:LEU:C	1:j:428:ASN:H	2.21	0.46
1:j:808:ARG:O	1:j:812:VAL:HG23	2.16	0.46
1:k:288:MET:HB3	1:k:294:ASN:HA	1.96	0.46
1:l:93:ALA:C	1:l:95:ASP:H	2.22	0.46
1:l:279:ARG:O	1:l:323:VAL:N	2.43	0.46
1:l:291:ASP:C	1:l:293:LYS:N	2.74	0.46
1:l:387:GLY:CA	1:l:402:ILE:HG22	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:485:GLU:HG2	1:l:486:LEU:N	2.30	0.46
1:m:1:MET:HE1	1:m:47:PRO:HB3	1.94	0.46
1:m:3:THR:H	1:m:50:MET:HE1	1.81	0.46
1:m:227:LEU:HB2	1:m:251:VAL:HG12	1.98	0.46
1:m:409:THR:O	1:m:410:GLN:C	2.58	0.46
1:A:134:GLY:O	1:A:135:ASP:CB	2.57	0.46
1:A:384:GLN:HE21	1:A:384:GLN:N	2.12	0.46
1:A:396:GLY:HA3	1:B:405:THR:HG23	1.96	0.46
1:A:750:ALA:C	1:A:752:ALA:H	2.23	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:D:338:GLN:NE2	1:E:279:ARG:HD3	2.31	0.46
1:D:529:ILE:HG22	1:D:580:ARG:HB2	1.97	0.46
1:E:394:LYS:HG2	1:F:329:GLN:CG	2.43	0.46
1:G:130:GLU:HB2	1:G:136:LYS:HA	1.97	0.46
1:H:4:GLU:OE2	1:H:6:ALA:HB2	2.16	0.46
1:H:10:ILE:HG22	1:H:12:PRO:HD2	1.98	0.46
1:H:165:ALA:HB3	1:H:174:LEU:HD11	1.97	0.46
1:H:230:ARG:HB2	1:H:265:GLU:HB3	1.98	0.46
1:H:234:ASN:N	1:H:234:ASN:HD22	2.12	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:O	1:H:481:VAL:HG13	2.16	0.46
1:I:759:LEU:HD13	1:J:768:MET:HG3	1.98	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:K:154:GLN:HG3	1:K:155:LYS:HG3	1.98	0.46
1:K:234:ASN:ND2	1:K:234:ASN:H	2.12	0.46
1:K:398:VAL:HG11	1:K:415:TRP:CD2	2.50	0.46
1:L:22:ASN:ND2	1:M:39:ASP:HB3	2.31	0.46
1:L:64:PRO:HA	1:L:111:PRO:HD2	1.98	0.46
1:L:389:TYR:HB2	1:L:415:TRP:O	2.15	0.46
1:L:661:ALA:O	1:L:665:THR:HG23	2.15	0.46
1:L:799:THR:HG21	1:M:801:ALA:HB1	1.97	0.46
1:M:327:SER:CA	1:M:331:GLY:HA3	2.45	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:O:522:PHE:CD2	1:O:522:PHE:C	2.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:167:VAL:HG22	1:R:201:VAL:HA	1.97	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:759:LEU:HD11	1:V:764:LYS:HB3	1.98	0.46
1:U:769:GLU:O	1:U:769:GLU:HG2	2.15	0.46
1:V:61:VAL:HG13	1:V:65:VAL:HG23	1.98	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:698:GLU:OE2	1:V:698:GLU:HA	2.15	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: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:14:HIS:CB	1:a:56:ARG:HB2	2.46	0.46
1:b:36:ILE:O	1:b:37:ARG:HG3	2.16	0.46
1:c:459:SER:HB2	1:c:488:THR:HG22	1.98	0.46
1:d:183:PHE:HE2	1:d:188:LYS:O	1.99	0.46
1:d:409:THR:O	1:d:410:GLN:C	2.59	0.46
1:e:61:VAL:HG22	1:e:62:ALA:N	2.30	0.46
1:f:398:VAL:N	1:g:384:GLN:OE1	2.41	0.46
1:g:68:ASP:O	1:g:69:THR:HB	2.15	0.46
1:g:338:GLN:OE1	1:h:278:PRO:HB2	2.15	0.46
1:g:654:LEU:O	1:g:657:SER:HB3	2.15	0.46
1:h:221:LEU:CD2	1:h:256:THR:CG2	2.93	0.46
1:h:383:ASP:C	1:h:385:ASN:N	2.73	0.46
1:h:524:THR:HG22	1:h:542:ALA:HB2	1.97	0.46
1:i:419:LEU:HD12	1:i:494:GLN:HE21	1.80	0.46
1:j:176:LEU:HD23	1:j:211:GLU:HA	1.98	0.46
1:j:501:SER:HA	1:j:507:ARG:O	2.16	0.46
1:l:164:GLN:NE2	1:l:204:TYR:CB	2.77	0.46
1:l:335:LYS:NZ	1:l:335:LYS:CB	2.78	0.46
1:l:341:GLU:OE1	1:l:341:GLU:O	2.33	0.46
1:m:529:ILE:CD1	1:m:537:LEU:HB2	2.45	0.46
1:A:537:LEU:HD21	1:A:588:PHE:HE1	1.80	0.46
1:A:811:ALA:C	1:A:813:ALA:H	2.24	0.46
1:B:70:GLN:HB3	1:B:104:VAL:H	1.79	0.46
1:B:165:ALA:O	1:B:203:ALA:O	2.33	0.46
1:C:217:ASP:OD1	1:C:257:GLU:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:ARG:HB2	1:C:247:GLU:OE1	2.15	0.46
1:C:326:LEU:HD21	1:C:333:LEU:HG	1.97	0.46
1:C:693:ILE:HD11	1:D:703:ARG:NH2	2.30	0.46
1:D:22:ASN:ND2	1:E:39:ASP:HB3	2.31	0.46
1:D:182:CYS:SG	1:D:208:VAL:HB	2.56	0.46
1:E:517:LEU:O	1:E:545:TRP:HH2	1.99	0.46
1:F:174:LEU:HB2	1:F:198:VAL:HB	1.96	0.46
1:F:291:ASP:C	1:F:293:LYS:H	2.23	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:298:GLN:HG3	1:H:305:GLU:CD	2.41	0.46
1:H:501:SER:HB3	1:H:508:PRO:HA	1.97	0.46
1:I:396:GLY:HA3	1:J:405:THR:HG23	1.98	0.46
1:J:176:LEU:HD23	1:J:211:GLU:HA	1.97	0.46
1:J:270:VAL:O	1:J:309:PHE:HE2	1.99	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: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:36:ILE:CD1	1:M:58:TYR:HE1	2.28	0.46
1:M:176:LEU:O	1:M:196:TRP:HB2	2.15	0.46
1:M:526:VAL:HG22	1:M:540:GLN:HG2	1.97	0.46
1:N:67:ARG:HE	1:N:107:LYS:C	2.23	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
1:O:733:ALA:HA	1:O:736:GLU:HB2	1.98	0.46
1:P:36:ILE:HG21	1:P:99:LEU:HB2	1.96	0.46
1:P:273:ILE:CD1	1:P:308:PHE:HB3	2.46	0.46
1:P:366:VAL:O	1:P:367:PRO:C	2.58	0.46
1:Q:175:ARG:HA	1:Q:196:TRP:O	2.15	0.46
1:R:245:THR:OG1	1:S:170:GLN:OE1	2.34	0.46
1:S:115:VAL:HB	1:S:148:PRO:CA	2.35	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:N	1:W:13:TYR:HD1	2.13	0.46
1:X:67:ARG:NH2	1:X:107:LYS:HA	2.27	0.46
1:X:262:ASP:HB3	1:X:264:TYR:CE1	2.50	0.46
1:X:745:LYS:HG3	1:Y:753:ILE:HD13	1.97	0.46
1:Y:179:ARG:NH2	1:Y:209:PHE:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:288:MET:HB3	1:Y:294:ASN:HA	1.98	0.46
1:Y:802:LEU:HD12	1:Y:806:THR:HG22	1.97	0.46
1:Z:22:ASN:ND2	1:a:39:ASP:HB3	2.30	0.46
1:Z:469:GLN:HB3	1:Z:496:THR:HG21	1.97	0.46
1:Z:580:ARG:HH22	1:a:595:SER:CB	2.28	0.46
1:a:734:ARG:HG2	1:b:742:LEU:HD12	1.96	0.46
1:b:123:LEU:HA	1:b:158:GLU:HA	1.97	0.46
1:c:121:LEU:HB2	1:c:145:PHE:HB3	1.97	0.46
1:c:766:ARG:O	1:c:770:LEU:HB2	2.15	0.46
1:d:523:PHE:CD1	1:d:568:VAL:HG12	2.50	0.46
1:d:580:ARG:HH22	1:e:595:SER:CB	2.27	0.46
1:f:116:LEU:CB	1:f:117:PRO:HD2	2.30	0.46
1:f:283:VAL:HG22	1:f:301:VAL:HG12	1.98	0.46
1:f:298:GLN:HG3	1:g:305:GLU:CD	2.41	0.46
1:f:419:LEU:HD23	1:f:421:SER:H	1.80	0.46
1:g:267:VAL:O	1:g:268:LEU:HB2	2.15	0.46
1:g:416:GLU:HB2	1:g:454:LYS:HB3	1.97	0.46
1:h:527:ILE:HD11	1:h:539:LEU:HG	1.96	0.46
1:i:252:THR:H	1:i:254:GLN:NE2	2.13	0.46
1:i:481:VAL:O	1:i:481:VAL:HG13	2.16	0.46
1:k:119:THR:HG23	1:k:163:ILE:HG23	1.97	0.46
1:k:539:LEU:HD22	1:k:643:VAL:HG22	1.96	0.46
1:k:762:VAL:O	1:k:766:ARG:HB2	2.15	0.46
1:l:262:ASP:HB3	1:l:264:TYR:CZ	2.50	0.46
1:l:296:LEU:HD13	1:l:296:LEU:H	1.81	0.46
1:A:175:ARG:HG3	1:A:215:LEU:CD2	2.44	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: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: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:G:244:ARG:HD3	1:H:221:LEU:HD21	1.98	0.46
1:G:285:LEU:HB2	1:G:315:ARG:HG2	1.98	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:H:662:ILE:O	1:H:666:THR:HB	2.16	0.46
1:I:287:PRO:O	1:I:295:GLN:HB2	2.15	0.46
1:J:1:MET:HE1	1:J:47:PRO:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:294:ASN:ND2	1:J:313:GLY:CA	2.69	0.46
1:J:473:TYR:HD2	1:K:486:LEU:HB3	1.80	0.46
1:K:36:ILE:O	1:K:36:ILE:HG13	2.15	0.46
1:K:261:PRO:HD2	1:K:264:TYR:HD1	1.80	0.46
1:K:533:ASP:OD1	1:K:588:PHE:N	2.49	0.46
1:L:49:ARG:NH2	1:M:8:ILE:CD1	2.79	0.46
1:L:769:GLU:O	1:L:769:GLU:HG2	2.16	0.46
1:N:196:TRP:CE3	1:N:196:TRP:HA	2.50	0.46
1:O:13:TYR:N	1:O:13:TYR:CD1	2.82	0.46
1:O:63:ASN:N	1:O:64:PRO:HD2	2.31	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:P:16:ILE:HB	1:P:51:VAL:HB	1.97	0.46
1:P:63:ASN:N	1:P:64:PRO:CD	2.76	0.46
1:P:141:ASP:C	1:P:142:GLU:HG2	2.39	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: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:CG2	1:T:496:THR:O	2.63	0.46
1:U:603:VAL:HG21	1:U:638:VAL:HG21	1.98	0.46
1:W:150:THR:HG23	1:W:151:TYR:N	2.31	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:1:MET:HE1	1:Z:47:PRO:HB3	1.95	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:580:ARG:HH22	1:b:595:SER:HB2	1.80	0.46
1:a:647:ASP:HB3	1:a:650:THR:OG1	2.15	0.46
1:a:717:GLU:O	1:a:721:ASN:HB2	2.16	0.46
1:b:122:HIS:HB3	1:b:160:VAL:H	1.81	0.46
1:b:415:TRP:CH2	1:b:417:LYS:HB3	2.51	0.46
1:c:68:ASP:O	1:c:69:THR:HB	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:452:ARG:HG3	1:c:452:ARG:NH1	2.28	0.46
1:c:596:ALA:O	1:c:600:ARG:HB2	2.15	0.46
1:d:750:ALA:C	1:d:752:ALA:H	2.24	0.46
1:f:380:ILE:HD12	1:f:406:TYR:O	2.15	0.46
1:f:692:LYS:O	1:f:696:GLN:HG3	2.16	0.46
1:g:332:LEU:CD2	1:g:407:MET:HB2	2.36	0.46
1:h:221:LEU:CD2	1:h:256:THR:HG21	2.43	0.46
1:h:273:ILE:CD1	1:h:316:LEU:HD21	2.46	0.46
1:h:286:ASP:N	1:h:287:PRO:HD3	2.31	0.46
1:i:239:ARG:HH21	1:i:257:GLU:CG	2.29	0.46
1:j:10:ILE:H	1:j:10:ILE:CD1	2.19	0.46
1:j:120:ALA:HB2	1:j:164:GLN:HE21	1.80	0.46
1:j:164:GLN:NE2	1:j:204:TYR:HB2	2.31	0.46
1:j:276:LEU:N	1:j:280:HIS:HB2	2.29	0.46
1:j:324:TYR:CE1	1:j:373:VAL:HG21	2.49	0.46
1:j:472:ASP:CA	1:j:493:GLU:HB3	2.41	0.46
1:j:473:TYR:HD2	1:k:486:LEU:HB3	1.81	0.46
1:j:476:LYS:HE2	1:k:485:GLU:OE1	2.15	0.46
1:l:175:ARG:HA	1:l:196:TRP:O	2.16	0.46
1:m:61:VAL:HG13	1:m:65:VAL:CG2	2.40	0.46
1:m:120:ALA:O	1:m:161:GLU:HA	2.16	0.46
1:m:221:LEU:HA	1:m:253:VAL:HG13	1.98	0.46
1:m:337:LEU:HD22	1:m:357:TRP:CZ3	2.51	0.46
1:C:712:MET:O	1:C:716:VAL:HG23	2.15	0.46
1:D:36:ILE:HD13	1:D:36:ILE:C	2.40	0.46
1:D:311:GLN:HB3	1:D:312:PRO:HD2	1.98	0.46
1:D:394:LYS:HA	1:E:329:GLN:NE2	2.30	0.46
1:D:462:VAL:HB	1:D:485:GLU:O	2.16	0.46
1:F:93:ALA:C	1:F:95:ASP:H	2.24	0.46
1:F:113:GLN:OE1	1:F:149:GLY:HA2	2.16	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:381:PRO:CA	1:G:405:THR:HG22	2.44	0.46
1:H:597:ARG:NH1	1:H:597:ARG:HB3	2.30	0.46
1:I:276:LEU:N	1:I:280:HIS:HB2	2.31	0.46
1:J:260:VAL:C	1:J:262:ASP:N	2.74	0.46
1:J:600:ARG:HE	1:J:600:ARG:HB3	1.64	0.46
1:K:6:ALA:O	1:K:7:ILE:HD13	2.16	0.46
1:L:123:LEU:CG	1:L:143:TRP:HB2	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:485:GLU:HG2	1:M:486:LEU:N	2.30	0.46
1:M:752:ALA:O	1:M:756:GLU:HB2	2.16	0.46
1:N:6:ALA:O	1:N:7:ILE:HD13	2.16	0.46
1:N:70:GLN:O	1:N:70:GLN:HG3	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:8:ILE:HG22	1:Q:40:ASN:ND2	2.31	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:S:766:ARG:HD2	1:T:768:MET:HE1	1.97	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:43:VAL:HG12	1:V:45:PHE:O	2.15	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:507:ARG:HB3	1:V:510:ALA:HB2	1.98	0.46
1:W:60:ILE:HG13	1:W:92:LEU:O	2.15	0.46
1:W:235:PHE:CE2	1:W:243:HIS:HB3	2.51	0.46
1:W:490:ASP:O	1:W:491:PRO:C	2.58	0.46
1:X:54:PRO:HB2	1:X:55:PRO:CD	2.28	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:a:227:LEU:HB2	1:a:251:VAL:HG13	1.96	0.46
1:a:249:TRP:N	1:a:249:TRP:CD1	2.84	0.46
1:a:777:LEU:HD11	1:b:783:LYS:CB	2.45	0.46
1:b:260:VAL:CB	1:b:263:VAL:HA	2.38	0.46
1:c:3:THR:HG22	1:c:50:MET:CE	2.46	0.46
1:c:10:ILE:HG23	1:c:11:PRO:HD2	1.98	0.46
1:d:333:LEU:HB2	1:d:359:ILE:CD1	2.45	0.46
1:f:64:PRO:HA	1:f:111:PRO:HD2	1.97	0.46
1:f:213:LEU:HD13	1:f:214:ASP:H	1.80	0.46
1:f:402:ILE:HD12	1:f:402:ILE:C	2.41	0.46
1:f:476:LYS:HE2	1:g:485:GLU:HG3	1.98	0.46
1:g:5:GLU:HA	1:g:7:ILE:HD11	1.98	0.46
1:g:208:VAL:HG23	1:g:209:PHE:HD2	1.81	0.46
1:g:415:TRP:CH2	1:g:417:LYS:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:163:ILE:HD12	1:h:163:ILE:N	2.24	0.46
1:h:623:ARG:CG	1:h:624:ASP:H	2.29	0.46
1:h:692:LYS:HG2	1:h:696:GLN:HE21	1.80	0.46
1:j:20:ASP:HB2	1:j:49:ARG:HD3	1.98	0.46
1:j:226:ALA:O	1:j:270:VAL:N	2.41	0.46
1:j:327:SER:N	1:j:331:GLY:HA3	2.31	0.46
1:k:73:VAL:O	1:k:84:ARG:HD2	2.15	0.46
1:k:123:LEU:HD21	1:k:143:TRP:HB2	1.97	0.46
1:k:336:ALA:O	1:k:371:VAL:HG13	2.15	0.46
1:k:536:ARG:HB2	1:k:646:VAL:HB	1.98	0.46
1:k:688:LEU:HA	1:k:691:GLN:CD	2.40	0.46
1:l:17:HIS:CD2	1:l:18:VAL:HG22	2.51	0.46
1:l:69:THR:O	1:l:89:GLU:N	2.35	0.46
1:l:500:LEU:HA	1:l:566:ASP:OD1	2.15	0.46
1:l:701:LYS:HG3	1:m:709:LEU:HD13	1.98	0.46
1:m:336:ALA:H	1:m:374:VAL:HG23	1.80	0.46
1:m:540:GLN:O	1:m:641:GLN:HG2	2.15	0.46
1:m:747:LYS:HD3	1:m:747:LYS:HA	1.58	0.46
1:A:132:LYS:HZ2	1:A:152:ILE:CD1	2.27	0.46
1:A:232:LEU:H	1:A:264:TYR:HD2	1.63	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:D:77:ILE:HG13	1:D:80:GLN:CA	2.45	0.46
1:D:755:THR:HG21	1:E:761:ARG:HG2	1.98	0.46
1:E:109:ILE:HD12	1:E:153:PRO:HG2	1.97	0.46
1:F:71:SER:OG	1:F:87:ASP:HB3	2.16	0.46
1:F:283:VAL:HG22	1:F:301:VAL:HG12	1.98	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: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:394:LYS:HZ2	1:J:329:GLN:HG3	1.81	0.46
1:J:165:ALA:HB3	1:J:174:LEU:HD11	1.98	0.46
1:J:387:GLY:HA3	1:J:402:ILE:HG22	1.98	0.46
1:K:64:PRO:HA	1:K:111:PRO:HD2	1.98	0.46
1:K:330:GLN:O	1:K:378:GLN:NE2	2.48	0.46
1:L:3:THR:H	1:L:50:MET:HE1	1.81	0.46
1:M:167:VAL:CG2	1:M:200:SER:O	2.64	0.46
1:M:327:SER:H	1:M:331:GLY:HA3	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:36:ILE:O	1:P:37:ARG:CG	2.64	0.46
1:P:45:PHE:HB2	1:P:48:VAL:HG23	1.96	0.46
1:P:417:LYS:HE3	1:P:491:PRO:O	2.15	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:58:TYR:HD1	1:S:99:LEU:HD12	1.81	0.46
1:S:221:LEU:HD13	1:S:255:ASP:O	2.15	0.46
1:S:252:THR:O	1:S:253:VAL:C	2.58	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:205:LEU:HD22	1:a:211:GLU:HB2	1.98	0.46
1:a:229:LEU:O	1:a:248:GLU:HA	2.15	0.46
1:a:421:SER:O	1:a:423:VAL:N	2.49	0.46
1:b:4:GLU:OE2	1:b:6:ALA:HB2	2.16	0.46
1:b:121:LEU:HB2	1:b:145:PHE:HB3	1.98	0.46
1:b:206:PRO:HB2	1:b:209:PHE:CD2	2.50	0.46
1:b:408:LEU:HD21	1:b:414:LEU:HD12	1.97	0.46
1:b:550:LYS:HG3	1:b:551:ASN:N	2.30	0.46
1:c:551:ASN:HB3	1:c:554:ASP:HB3	1.98	0.46
1:d:6:ALA:HA	1:d:41:GLU:O	2.16	0.46
1:d:564:VAL:CG2	1:d:631:ASN:ND2	2.79	0.46
1:e:5:GLU:CG	1:e:43:VAL:HG21	2.45	0.46
1:f:116:LEU:O	1:f:118:ASN:N	2.48	0.46
1:f:127:LEU:HB3	1:g:64:PRO:HD3	1.98	0.46
1:f:389:TYR:CE1	1:f:457:VAL:HA	2.51	0.46
1:g:63:ASN:N	1:g:64:PRO:HD2	2.31	0.46
1:g:354:GLY:C	1:h:328:GLU:HG3	2.41	0.46
1:g:394:LYS:HA	1:h:329:GLN:NE2	2.31	0.46
1:g:709:LEU:HA	1:g:712:MET:HE3	1.97	0.46
1:h:239:ARG:NH2	1:h:257:GLU:HG2	2.27	0.46
1:h:540:GLN:O	1:h:641:GLN:HG2	2.15	0.46
1:i:176:LEU:HA	1:i:210:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:235:PHE:CZ	1:i:264:TYR:CE1	3.03	0.46
1:i:547:PHE:CD2	1:i:561:LEU:HD23	2.50	0.46
1:j:123:LEU:CD2	1:j:143:TRP:HB2	2.46	0.46
1:k:465:ASN:HB3	1:k:519:GLY:HA3	1.97	0.46
1:l:568:VAL:HG23	1:l:569:GLY:H	1.80	0.46
1:m:3:THR:HG22	1:m:50:MET:HE2	1.97	0.46
1:m:235:PHE:CE1	1:m:264:TYR:CE1	3.04	0.46
1:m:338:GLN:CB	1:m:339:PRO:CD	2.92	0.46
1:A:798:MET:O	1:A:802:LEU:HD23	2.16	0.46
1:D:179:ARG:CZ	1:D:210:GLU:HB2	2.45	0.46
1:D:812:VAL:O	1:D:812:VAL:HG12	2.16	0.46
1:E:177:ARG:HB2	1:E:177:ARG:HH11	1.81	0.46
1:E:381:PRO:HA	1:E:405:THR:HB	1.98	0.46
1:E:601:MET:CG	1:E:622:ALA:HB2	2.46	0.46
1:F:54:PRO:CB	1:F:55:PRO:CD	2.83	0.46
1:F:394:LYS:CG	1:G:329:GLN:HG3	2.37	0.46
1:F:564:VAL:HG22	1:F:631:ASN:ND2	2.30	0.46
1:F:594:ASN:O	1:F:595:SER:C	2.58	0.46
1:G:340:LEU:HD23	1:G:352:GLN:HA	1.98	0.46
1:G:345:SER:C	1:G:347:GLU:H	2.23	0.46
1:H:332:LEU:HD11	1:H:379:ALA:HB2	1.97	0.46
1:I:599:ILE:O	1:I:603:VAL:HG23	2.16	0.46
1:J:535:ALA:HA	1:K:658:VAL:HG21	1.98	0.46
1:J:587:THR:HG23	1:J:590:ASP:HB3	1.98	0.46
1:K:15:TYR:O	1:K:34:THR:OG1	2.34	0.46
1:K:628:PHE:HD1	1:K:633:LEU:HB3	1.80	0.46
1:L:30:VAL:HG22	1:L:74:LEU:CG	2.45	0.46
1:L:67:ARG:CD	1:L:108:ASP:HB3	2.46	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:527:ILE:CD1	1:M:541:LEU:HG	2.27	0.46
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: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:H	1:S:296:LEU:HD13	1.81	0.46
1:S:472:ASP:HA	1:S:493:GLU:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:3:THR:HG22	1:T:50:MET:HE2	1.97	0.46
1:T:36:ILE:HG21	1:T:99:LEU:HB2	1.97	0.46
1:T:281:TYR:CD2	1:T:366:VAL:HG13	2.51	0.46
1:U:180:LYS:C	1:U:182:CYS:N	2.70	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:CA	1:X:331:GLY:HA3	2.45	0.46
1:X:327:SER:H	1:X:331:GLY:HA3	1.80	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:Z:697:SER:HB3	1:a:706:LEU:HB2	1.97	0.46
1:a:49:ARG:CZ	1:b:8:ILE:HD12	2.46	0.46
1:a:185:ARG:HH21	1:a:208:VAL:HG22	1.79	0.46
1:b:16:ILE:HA	1:b:34:THR:OG1	2.16	0.46
1:b:236:ARG:HB3	1:b:236:ARG:HH11	1.81	0.46
1:c:335:LYS:HD2	1:c:365:TYR:CE2	2.52	0.46
1:d:120:ALA:HB2	1:d:164:GLN:NE2	2.31	0.46
1:d:150:THR:HG23	1:d:151:TYR:H	1.80	0.46
1:d:182:CYS:SG	1:d:208:VAL:HB	2.55	0.46
1:d:217:ASP:OD1	1:d:218:ALA:O	2.33	0.46
1:e:60:ILE:HD13	1:e:60:ILE:H	1.81	0.46
1:e:65:VAL:CG1	1:e:110:THR:HG22	2.46	0.46
1:e:389:TYR:CZ	1:e:457:VAL:HA	2.51	0.46
1:f:15:TYR:CE2	1:f:17:HIS:HB3	2.51	0.46
1:f:243:HIS:NE2	1:f:249:TRP:CE2	2.84	0.46
1:f:252:THR:O	1:f:254:GLN:NE2	2.49	0.46
1:f:522:PHE:CD2	1:f:522:PHE:C	2.95	0.46
1:g:7:ILE:HD13	1:g:41:GLU:OE1	2.16	0.46
1:g:70:GLN:HB3	1:g:104:VAL:O	2.15	0.46
1:h:69:THR:HA	1:h:106:GLU:HB3	1.98	0.46
1:h:113:GLN:O	1:h:114:VAL:HG13	2.16	0.46
1:h:186:GLU:OE2	1:h:204:TYR:HE1	1.99	0.46
1:h:298:GLN:HG3	1:i:305:GLU:CD	2.41	0.46
1:h:465:ASN:HB3	1:h:519:GLY:HA3	1.96	0.46
1:i:325:VAL:O	1:i:325:VAL:HG13	2.16	0.46
1:j:243:HIS:HE2	1:j:249:TRP:CG	2.34	0.46
1:j:398:VAL:N	1:k:384:GLN:OE1	2.40	0.46
1:j:551:ASN:HB2	1:j:557:GLU:OE2	2.16	0.46
1:k:10:ILE:HD12	1:k:10:ILE:N	2.18	0.46
1:k:328:GLU:OE1	1:k:361:GLY:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:496:THR:O	1:k:496:THR:CG2	2.64	0.46
1:l:2:ALA:HB3	1:l:46:ALA:O	2.16	0.46
1:l:7:ILE:O	1:l:41:GLU:HG3	2.16	0.46
1:l:11:PRO:HB2	1:l:12:PRO:HD3	1.99	0.46
1:l:273:ILE:HD13	1:l:316:LEU:HD11	1.98	0.46
1:m:251:VAL:CG2	1:m:254:GLN:HE21	2.29	0.46
1:m:595:SER:O	1:m:599:ILE:HG12	2.16	0.46
1:A:18:VAL:HG13	1:A:48:VAL:CG2	2.35	0.45
1:B:419:LEU:HD12	1:B:494:GLN:NE2	2.30	0.45
1:C:154:GLN:CG	1:C:155:LYS:N	2.75	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:D:67:ARG:HH21	1:D:107:LYS:CA	2.22	0.45
1:D:70:GLN:HB3	1:D:104:VAL:H	1.81	0.45
1:D:327:SER:H	1:D:331:GLY:HA3	1.81	0.45
1:D:701:LYS:HG3	1:E:709:LEU:HD13	1.97	0.45
1:E:180:LYS:C	1:E:182:CYS:N	2.73	0.45
1:F:90:ILE:HD13	1:F:90:ILE:N	2.30	0.45
1:F:654:LEU:CD1	1:G:662:ILE:HD13	2.47	0.45
1:G:16:ILE:CD1	1:G:34:THR:HG21	2.45	0.45
1:G:338:GLN:CB	1:G:339:PRO:CD	2.85	0.45
1:G:527:ILE:CD1	1:G:541:LEU:HG	2.45	0.45
1:I:11:PRO:HB2	1:I:12:PRO:HD3	1.97	0.45
1:J:16:ILE:CD1	1:J:34:THR:HG21	2.45	0.45
1:K:115:VAL:N	1:K:118:ASN:ND2	2.63	0.45
1:K:220:ILE:C	1:K:222:THR:H	2.23	0.45
1:K:533:ASP:CG	1:K:588:PHE:H	2.24	0.45
1:M:88:GLN:HB3	1:M:154:GLN:HE22	1.80	0.45
1:M:164:GLN:HB3	1:M:204:TYR:HA	1.98	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:244:ARG:HH11	1:R:221:LEU:HD11	1.81	0.45
1:Q:252:THR:H	1:Q:254:GLN:HE21	1.64	0.45
1:Q:381:PRO:C	1:Q:405:THR:HG22	2.39	0.45
1:R:114:VAL:HG12	1:R:118:ASN:HD21	1.80	0.45
1:R:396:GLY:CA	1:S:405:THR:HG23	2.46	0.45
1:S:49:ARG:NH2	1:T:8:ILE:CD1	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:70:GLN:O	1:S:70:GLN:HG3	2.16	0.45
1:S:339:PRO:HG3	1:T:278:PRO:HA	1.98	0.45
1:S:495:PHE:HB3	1:S:514:LEU:HD11	1.98	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:T:768:MET:HE3	1:T:768:MET:HB3	1.83	0.45
1:U:24:ASN:ND2	1:U:30:VAL:HB	2.26	0.45
1:U:129:PHE:O	1:U:130:GLU:HG2	2.16	0.45
1:U:425:GLU:CD	1:U:425:GLU:H	2.24	0.45
1:U:535:ALA:HA	1:V:658:VAL:HG21	1.98	0.45
1:V:511:ARG:HH22	1:V:517:LEU:CD1	2.15	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:HG3	1:X:452:ARG:NH1	2.31	0.45
1:Y:244:ARG:HB3	1:Z:221:LEU:HD23	1.98	0.45
1:Y:281:TYR:CD2	1:Y:366:VAL:HG13	2.51	0.45
1:a:601:MET:HG3	1:a:622:ALA:HB2	1.97	0.45
1:b:159:VAL:HG12	1:b:160:VAL:HG22	1.98	0.45
1:d:234:ASN:N	1:d:234:ASN:HD22	2.13	0.45
1:d:245:THR:O	1:e:221:LEU:HD23	2.16	0.45
1:d:517:LEU:H	1:d:517:LEU:CD1	2.20	0.45
1:d:569:GLY:O	1:d:573:LYS:HB2	2.16	0.45
1:f:725:GLU:O	1:f:728:SER:HB3	2.16	0.45
1:g:311:GLN:N	1:g:314:GLU:HG3	2.31	0.45
1:h:51:VAL:O	1:h:53:VAL:HG23	2.17	0.45
1:h:597:ARG:O	1:h:601:MET:HB2	2.16	0.45
1:i:14:HIS:HD1	1:i:36:ILE:CG2	2.29	0.45
1:i:65:VAL:HG12	1:i:110:THR:HG22	1.98	0.45
1:i:402:ILE:HD12	1:i:402:ILE:C	2.41	0.45
1:i:490:ASP:O	1:i:491:PRO:C	2.58	0.45
1:j:298:GLN:HG3	1:k:305:GLU:CD	2.40	0.45
1:j:708:GLU:HG3	1:k:716:VAL:HG11	1.98	0.45
1:k:122:HIS:HB3	1:k:159:VAL:HB	1.97	0.45
1:k:550:LYS:HG3	1:k:551:ASN:ND2	2.31	0.45
1:l:333:LEU:HB2	1:l:359:ILE:CD1	2.46	0.45
1:m:14:HIS:HB3	1:m:56:ARG:HB2	1.99	0.45
1:m:122:HIS:HB3	1:m:159:VAL:HB	1.98	0.45
1:A:490:ASP:CG	1:A:491:PRO:HD2	2.41	0.45
1:B:326:LEU:HD13	1:B:360:ARG:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:571:ALA:O	1:B:575:ILE:HG13	2.16	0.45
1:C:61:VAL:HG13	1:C:65:VAL:HG23	1.98	0.45
1:C:560:LYS:HD2	1:C:630:GLN:O	2.15	0.45
1:D:5:GLU:O	1:D:41:GLU:O	2.34	0.45
1:D:123:LEU:HD11	1:D:143:TRP:HB2	1.98	0.45
1:D:474:ARG:HA	1:E:385:ASN:OD1	2.16	0.45
1:E:5:GLU:O	1:E:41:GLU:O	2.34	0.45
1:E:415:TRP:CH2	1:E:417:LYS:HB3	2.52	0.45
1:F:185:ARG:HG3	1:F:206:PRO:HB3	1.97	0.45
1:G:70:GLN:O	1:G:70:GLN:HG3	2.15	0.45
1:H:526:VAL:HG22	1:H:540:GLN:HG2	1.98	0.45
1:H:594:ASN:O	1:H:595:SER:C	2.59	0.45
1:I:175:ARG:NE	1:I:263:VAL:HG22	2.29	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:K:234:ASN:HD22	1:K:234:ASN:H	1.59	0.45
1:K:245:THR:C	1:K:247:GLU:H	2.23	0.45
1:K:421:SER:O	1:K:423:VAL:N	2.49	0.45
1:L:235:PHE:CE1	1:L:264:TYR:CE1	3.04	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:M:129:PHE:O	1:M:130:GLU:HG2	2.16	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:164:GLN:CD	1:P:204:TYR:HB2	2.41	0.45
1:P:250:LEU:O	1:P:250:LEU:HD23	2.16	0.45
1:P:342:GLU:HA	1:P:350:SER:HA	1.98	0.45
1:Q:54:PRO:CB	1:Q:55:PRO:HD3	2.38	0.45
1:Q:123:LEU:CG	1:Q:143:TRP:HB2	2.45	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: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:1:MET:HE1	1:V:47:PRO:HB3	1.93	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:49:ARG:NH2	1:W:8:ILE:HD12	2.31	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: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: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:Y:382:LEU:N	1:Y:405:THR:HG22	2.31	0.45
1:Z:13:TYR:CD1	1:Z:13:TYR:N	2.84	0.45
1:Z:70:GLN:HE21	1:Z:104:VAL:HG12	1.80	0.45
1:Z:382:LEU:HD13	1:Z:387:GLY:HA2	1.97	0.45
1:a:660:LEU:HD13	1:a:663:GLU:HG2	1.98	0.45
1:b:184:ASP:C	1:b:186:GLU:H	2.23	0.45
1:b:245:THR:HG22	1:c:219:VAL:HG11	1.98	0.45
1:b:501:SER:CB	1:b:507:ARG:O	2.65	0.45
1:b:534:HIS:CD2	1:c:654:LEU:HG	2.51	0.45
1:b:550:LYS:HG3	1:b:551:ASN:H	1.81	0.45
1:c:623:ARG:CG	1:c:624:ASP:N	2.78	0.45
1:c:807:ILE:HD11	1:d:806:THR:HG21	1.99	0.45
1:d:21:GLN:NE2	1:d:47:PRO:O	2.49	0.45
1:d:36:ILE:O	1:d:37:ARG:HG3	2.16	0.45
1:d:173:ALA:HB1	1:d:198:VAL:O	2.16	0.45
1:e:506:LYS:HE2	1:e:524:THR:O	2.17	0.45
1:f:56:ARG:HH11	1:f:99:LEU:HD23	1.82	0.45
1:f:330:GLN:CB	1:f:379:ALA:HB3	2.44	0.45
1:f:532:ALA:HB1	1:g:593:LYS:HE2	1.98	0.45
1:h:176:LEU:HD23	1:h:211:GLU:HA	1.97	0.45
1:h:185:ARG:HG3	1:h:206:PRO:HB3	1.98	0.45
1:h:354:GLY:CA	1:i:328:GLU:HG3	2.47	0.45
1:h:653:ALA:HA	1:h:656:ARG:NH2	2.32	0.45
1:i:359:ILE:HD13	1:i:359:ILE:H	1.81	0.45
1:j:56:ARG:HH11	1:j:99:LEU:CD2	2.28	0.45
1:j:330:GLN:CD	1:j:407:MET:HG3	2.41	0.45
1:j:697:SER:HB3	1:k:706:LEU:HB2	1.98	0.45
1:k:64:PRO:HA	1:k:111:PRO:HD2	1.98	0.45
1:k:130:GLU:HA	1:k:136:LYS:HA	1.97	0.45
1:l:75:PHE:CE2	1:l:77:ILE:CG2	2.98	0.45
1:l:221:LEU:HD12	1:l:253:VAL:HG13	1.98	0.45
1:l:409:THR:O	1:l:410:GLN:C	2.57	0.45
1:l:421:SER:O	1:l:422:GLY:C	2.59	0.45
1:l:536:ARG:HB3	1:l:536:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:683:GLU:CD	1:l:683:GLU:C	2.84	0.45
1:m:419:LEU:HD23	1:m:422:GLY:H	1.81	0.45
1:m:813:ALA:O	1:m:815:PRO:HD3	2.16	0.45
1:B:30:VAL:HG22	1:B:74:LEU:HD11	1.97	0.45
1:B:334:LEU:HD12	1:B:377:ARG:NH2	2.30	0.45
1:B:360:ARG:CD	1:B:407:MET:HG2	2.46	0.45
1:C:24:ASN:ND2	1:C:30:VAL:HB	2.29	0.45
1:C:398:VAL:H	1:D:384:GLN:CD	2.24	0.45
1:C:532:ALA:HB1	1:D:593:LYS:HE2	1.97	0.45
1:D:10:ILE:HD12	1:D:10:ILE:N	2.21	0.45
1:D:11:PRO:CA	1:D:38:GLN:HA	2.37	0.45
1:D:489:LEU:HD11	1:D:495:PHE:CE1	2.52	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:65:VAL:HA	1:F:110:THR:HG22	1.97	0.45
1:F:533:ASP:OD2	1:G:661:ALA:HB1	2.17	0.45
1:G:11:PRO:CA	1:G:38:GLN:HA	2.36	0.45
1:G:177:ARG:HB3	1:G:210:GLU:OE2	2.17	0.45
1:G:729:ARG:HB2	1:G:729:ARG:NH1	2.31	0.45
1:I:281:TYR:HE1	1:I:321:GLN:HB2	1.74	0.45
1:J:132:LYS:HZ1	1:J:152:ILE:HG23	1.81	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:L:471:TYR:CE1	1:M:484:PRO:HG2	2.50	0.45
1:L:564:VAL:O	1:L:564:VAL:HG23	2.16	0.45
1:L:569:GLY:O	1:L:573:LYS:HB2	2.15	0.45
1:M:2:ALA:HB3	1:M:46:ALA:O	2.17	0.45
1:M:175:ARG:NE	1:M:263:VAL:HG22	2.32	0.45
1:M:330:GLN:O	1:M:378:GLN:NE2	2.49	0.45
1:M:601:MET:HE2	1:M:601:MET:HB3	1.84	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:77:ILE:HG13	1:O:80:GLN:H	1.80	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:P:473:TYR:HD2	1:Q:486:LEU:HB3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:220:ILE:HD12	1:Q:252:THR:HA	1.98	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:180:LYS:C	1:V:182:CYS:H	2.22	0.45
1:V:394:LYS:HA	1:W:329:GLN:NE2	2.31	0.45
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:291:ASP:C	1:Y:293:LYS:H	2.25	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:339:PRO:HG3	1:a:278:PRO:HA	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:685:ARG:O	1:a:689:GLU:HB2	2.16	0.45
1:b:516:LEU:HD21	1:b:567:PHE:CE1	2.51	0.45
1:c:167:VAL:H	1:c:202:GLY:H	1.64	0.45
1:c:296:LEU:HD13	1:c:296:LEU:H	1.81	0.45
1:c:338:GLN:CB	1:c:339:PRO:CD	2.90	0.45
1:d:529:ILE:HD12	1:d:529:ILE:O	2.16	0.45
1:e:14:HIS:ND1	1:e:99:LEU:HD22	2.32	0.45
1:e:18:VAL:N	1:e:48:VAL:HG13	2.26	0.45
1:f:167:VAL:HG22	1:f:201:VAL:HA	1.99	0.45
1:g:254:GLN:O	1:g:255:ASP:HB2	2.16	0.45
1:h:523:PHE:CD1	1:h:568:VAL:HG12	2.51	0.45
1:h:601:MET:HG2	1:h:622:ALA:CB	2.43	0.45
1:i:338:GLN:HB3	1:i:339:PRO:CD	2.36	0.45
1:i:621:LYS:HE3	1:i:621:LYS:O	2.17	0.45
1:j:60:ILE:HD13	1:j:93:ALA:CA	2.39	0.45
1:j:245:THR:O	1:k:221:LEU:HD23	2.16	0.45
1:j:324:TYR:O	1:j:365:TYR:N	2.34	0.45
1:j:476:LYS:HE2	1:k:485:GLU:CG	2.45	0.45
1:j:540:GLN:HB2	1:j:642:SER:HB3	1.98	0.45
1:j:729:ARG:HB2	1:j:729:ARG:NH1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:36:ILE:O	1:k:37:ARG:CG	2.64	0.45
1:k:69:THR:HA	1:k:106:GLU:HB3	1.98	0.45
1:k:335:LYS:HE2	1:k:371:VAL:HG11	1.98	0.45
1:k:426:LEU:C	1:k:428:ASN:H	2.24	0.45
1:k:474:ARG:CG	1:k:492:GLU:HB2	2.43	0.45
1:l:777:LEU:HD13	1:m:783:LYS:HB2	1.97	0.45
1:m:527:ILE:HD13	1:m:529:ILE:CG2	2.44	0.45
1:A:115:VAL:H	1:A:118:ASN:ND2	2.06	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:D:73:VAL:N	1:D:84:ARG:HB2	2.30	0.45
1:D:169:LYS:CG	1:D:170:GLN:H	2.30	0.45
1:D:244:ARG:HH11	1:E:221:LEU:HD11	1.82	0.45
1:D:518:LEU:HA	1:D:547:PHE:CD1	2.49	0.45
1:E:766:ARG:HD3	1:F:772:TYR:HB2	1.98	0.45
1:F:334:LEU:HD22	1:F:374:VAL:HB	1.99	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:527:ILE:H	1:H:527:ILE:CD1	2.24	0.45
1:H:807:ILE:HD12	1:H:808:ARG:H	1.82	0.45
1:I:236:ARG:NH1	1:I:236:ARG:HB3	2.30	0.45
1:J:396:GLY:CA	1:K:405:THR:HG23	2.46	0.45
1:K:76:ASP:HB3	1:K:80:GLN:O	2.17	0.45
1:K:109:ILE:CD1	1:K:153:PRO:CG	2.93	0.45
1:L:90:ILE:HD12	1:L:90:ILE:O	2.16	0.45
1:L:774:ARG:HA	1:M:779:LEU:HD21	1.99	0.45
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:719:THR:HG22	1:N:728:SER:HA	1.98	0.45
1:N:329:GLN:NE2	1:N:330:GLN:HE21	2.15	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:117:PRO:O	1:S:118:ASN:C	2.60	0.45
1:S:119:THR:HG23	1:S:163:ILE:HG23	1.97	0.45
1:S:154:GLN:CG	1:S:155:LYS:HZ2	2.27	0.45
1:S:408:LEU:HD12	1:S:408:LEU:N	2.32	0.45
1:S:703:ARG:CZ	1:S:703:ARG:HB2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:16:ILE:HA	1:W:34:THR:HG1	1.81	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:90:ILE:HG23	1:X:154:GLN:HB2	1.98	0.45
1:X:129:PHE:N	1:X:129:PHE:CD1	2.84	0.45
1:X:174:LEU:CB	1:X:198:VAL:HB	2.44	0.45
1:X:281:TYR:CD1	1:X:281:TYR:C	2.95	0.45
1:X:647:ASP:HB3	1:X:650:THR:OG1	2.16	0.45
1:Y:230:ARG:HH11	1:Y:230:ARG:HB3	1.80	0.45
1:Y:251:VAL:CG2	1:Y:254:GLN:NE2	2.73	0.45
1:Z:13:TYR:N	1:Z:13:TYR:HD1	2.14	0.45
1:Z:209:PHE:N	1:Z:209:PHE:HD2	2.14	0.45
1:a:235:PHE:HE1	1:a:237:ASP:HA	1.81	0.45
1:a:414:LEU:HD23	1:a:455:THR:OG1	2.15	0.45
1:a:489:LEU:HD11	1:a:495:PHE:CE1	2.51	0.45
1:b:255:ASP:CG	1:b:256:THR:N	2.75	0.45
1:b:766:ARG:HD2	1:c:768:MET:CE	2.47	0.45
1:c:72:SER:OG	1:c:102:GLY:O	2.34	0.45
1:c:465:ASN:HB3	1:c:519:GLY:HA3	1.98	0.45
1:c:481:VAL:O	1:c:481:VAL:HG13	2.14	0.45
1:d:119:THR:HG22	1:d:120:ALA:H	1.80	0.45
1:d:230:ARG:HB3	1:d:230:ARG:NH1	2.27	0.45
1:d:363:LEU:HD13	1:d:364:GLU:H	1.82	0.45
1:d:540:GLN:HB2	1:d:642:SER:HB3	1.97	0.45
1:e:3:THR:CG2	1:e:50:MET:HE2	2.44	0.45
1:e:183:PHE:HE2	1:e:188:LYS:O	1.99	0.45
1:e:286:ASP:N	1:e:287:PRO:HD3	2.31	0.45
1:f:472:ASP:OD1	1:f:472:ASP:C	2.59	0.45
1:f:534:HIS:CD2	1:g:654:LEU:HG	2.52	0.45
1:f:544:ASN:HB2	1:f:637:SER:OG	2.16	0.45
1:g:285:LEU:HB2	1:g:315:ARG:HG2	1.99	0.45
1:g:324:TYR:HE1	1:g:373:VAL:HG21	1.81	0.45
1:g:425:GLU:CD	1:g:425:GLU:H	2.25	0.45
1:g:518:LEU:HA	1:g:547:PHE:HD1	1.81	0.45
1:h:267:VAL:O	1:h:268:LEU:HB2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:276:LEU:N	1:h:280:HIS:HB2	2.31	0.45
1:h:335:LYS:HB2	1:h:335:LYS:HZ3	1.79	0.45
1:h:340:LEU:HG	1:h:353:ALA:H	1.82	0.45
1:i:221:LEU:HD22	1:i:256:THR:CG2	2.46	0.45
1:j:261:PRO:HD2	1:j:264:TYR:HD1	1.81	0.45
1:j:380:ILE:HD12	1:j:406:TYR:O	2.16	0.45
1:k:332:LEU:HD22	1:k:377:ARG:HD2	1.98	0.45
1:k:771:ILE:HA	1:k:774:ARG:NH1	2.31	0.45
1:l:174:LEU:HB2	1:l:198:VAL:HB	1.98	0.45
1:l:580:ARG:HD2	1:m:640:VAL:O	2.17	0.45
1:m:296:LEU:N	1:m:296:LEU:HD22	2.30	0.45
1:m:504:ARG:HD3	1:m:504:ARG:HA	1.80	0.45
1:A:283:VAL:HB	1:A:317:GLU:HB3	1.98	0.45
1:B:327:SER:CB	1:B:331:GLY:CA	2.90	0.45
1:B:777:LEU:CD1	1:C:783:LYS:HB2	2.37	0.45
1:C:239:ARG:HH21	1:C:257:GLU:CG	2.25	0.45
1:C:288:MET:HE2	1:C:288:MET:HB3	1.89	0.45
1:C:452:ARG:NH1	1:C:452:ARG:HG3	2.31	0.45
1:C:468:VAL:HG22	1:C:515:CYS:HA	1.98	0.45
1:C:745:LYS:O	1:C:748:ALA:HB3	2.17	0.45
1:D:777:LEU:HD11	1:E:783:LYS:CB	2.47	0.45
1:E:154:GLN:CG	1:E:155:LYS:HG3	2.34	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:601:MET:HE3	1:E:606:PHE:HB3	1.97	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:560:LYS:O	1:F:631:ASN:HA	2.16	0.45
1:F:771:ILE:N	1:F:771:ILE:CD1	2.79	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:H:121:LEU:HB2	1:H:145:PHE:CB	2.47	0.45
1:H:715:ALA:O	1:H:716:VAL:C	2.59	0.45
1:I:67:ARG:O	1:I:91:ARG:N	2.42	0.45
1:I:182:CYS:SG	1:I:208:VAL:CB	2.99	0.45
1:J:273:ILE:HD13	1:J:316:LEU:HD21	1.98	0.45
1:J:419:LEU:HD23	1:J:421:SER:H	1.81	0.45
1:K:623:ARG:CG	1:K:624:ASP:N	2.78	0.45
1:L:70:GLN:HB3	1:L:104:VAL:N	2.26	0.45
1:L:539:LEU:HD22	1:L:643:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:60:ILE:H	1:M:60:ILE:CD1	2.21	0.45
1:M:252:THR:O	1:M:253:VAL:C	2.59	0.45
1:M:599:ILE:C	1:M:601:MET:N	2.72	0.45
1:N:30:VAL:HG22	1:N:74:LEU:HD11	1.97	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: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:O	1:P:325:VAL:HG13	2.17	0.45
1:Q:151:TYR:N	1:Q:151:TYR:HD1	2.15	0.45
1:Q:325:VAL:O	1:Q:325:VAL:HG13	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
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:U:138:MET:HE1	1:V:148:PRO:HG3	1.99	0.45
1:U:714:MET:HA	1:U:714:MET:HE3	1.98	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:83:LEU:HD13	1:X:86:ALA:HB3	1.97	0.45
1:X:236:ARG:HA	1:X:241:VAL:O	2.17	0.45
1:Y:2:ALA:HB3	1:Y:46:ALA:O	2.17	0.45
1:Z:135:ASP:C	1:Z:136:LYS:HG3	2.41	0.45
1:Z:384:GLN:HE21	1:Z:384:GLN:N	2.13	0.45
1:b:379:ALA:HB1	1:b:406:TYR:O	2.16	0.45
1:c:501:SER:HA	1:c:507:ARG:O	2.15	0.45
1:e:123:LEU:HD11	1:e:143:TRP:CD1	2.48	0.45
1:g:104:VAL:HG22	1:g:105:LEU:H	1.82	0.45
1:g:539:LEU:HD22	1:g:643:VAL:HG22	1.98	0.45
1:h:252:THR:O	1:h:253:VAL:C	2.58	0.45
1:i:122:HIS:O	1:i:159:VAL:N	2.36	0.45
1:i:419:LEU:HD12	1:i:494:GLN:NE2	2.32	0.45
1:j:121:LEU:HD12	1:j:145:PHE:HD2	1.82	0.45
1:k:268:LEU:HD12	1:k:269:GLY:O	2.17	0.45
1:k:332:LEU:HD11	1:k:407:MET:HB3	1.98	0.45
1:k:342:GLU:HB2	1:k:350:SER:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:382:LEU:HB2	1:k:404:SER:O	2.17	0.45
1:k:529:ILE:HD11	1:k:537:LEU:HB2	1.98	0.45
1:l:68:ASP:O	1:l:69:THR:HB	2.17	0.45
1:l:125:ALA:HB1	1:l:128:ASP:HB3	1.99	0.45
1:l:234:ASN:HA	1:l:243:HIS:O	2.16	0.45
1:l:472:ASP:HA	1:l:493:GLU:CB	2.41	0.45
1:m:71:SER:OG	1:m:84:ARG:O	2.31	0.45
1:m:320:ILE:HD13	1:m:320:ILE:N	2.30	0.45
1:m:384:GLN:HE21	1:m:384:GLN:N	2.12	0.45
1:A:122:HIS:CG	1:A:159:VAL:HB	2.52	0.45
1:A:360:ARG:HG3	1:A:361:GLY:N	2.31	0.45
1:A:379:ALA:HB2	1:A:407:MET:HB3	1.99	0.45
1:A:706:LEU:HB2	1:m:697:SER:HB3	1.98	0.45
1:A:712:MET:HB3	1:m:704:LYS:HD2	1.98	0.45
1:A:807:ILE:H	1:A:807:ILE:HG13	1.57	0.45
1:B:723:LYS:HG2	1:C:735:ILE:HD11	1.99	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:D:338:GLN:HB2	1:D:339:PRO:CD	2.38	0.45
1:D:708:GLU:HG2	1:E:716:VAL:HG11	1.99	0.45
1:E:252:THR:O	1:E:253:VAL:C	2.59	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:564:VAL:CG2	1:E:631:ASN:ND2	2.80	0.45
1:F:106:GLU:O	1:F:107:LYS:HD2	2.17	0.45
1:G:360:ARG:CG	1:G:361:GLY:N	2.79	0.45
1:H:382:LEU:N	1:H:405:THR:HG22	2.31	0.45
1:H:664:ILE:O	1:H:668:SER:HB2	2.17	0.45
1:I:273:ILE:HG21	1:I:316:LEU:HD11	1.98	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:382:LEU:H	1:I:405:THR:HG22	1.81	0.45
1:I:501:SER:HB3	1:I:507:ARG:O	2.17	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:J:415:TRP:CZ3	1:J:417:LYS:HB3	2.52	0.45
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:K:29:GLU:HB3	1:K:84:ARG:HD3	1.98	0.45
1:L:36:ILE:HG21	1:L:99:LEU:CD1	2.39	0.45
1:L:244:ARG:N	1:L:247:GLU:OE1	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:715:ALA:HA	1:M:724:ALA:HB1	1.99	0.45
1:M:326:LEU:CD2	1:M:333:LEU:HG	2.44	0.45
1:M:768:MET:HE3	1:M:768:MET:HB3	1.81	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:N:599:ILE:C	1:N:601:MET:N	2.74	0.45
1:O:7:ILE:H	1:O:41:GLU:HG3	1.81	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:Q:408:LEU:HD12	1:Q:408:LEU:N	2.24	0.45
1:R:25:VAL:O	1:R:26:SER:HB2	2.16	0.45
1:R:67:ARG:NH2	1:R:108:ASP:OD1	2.50	0.45
1:R:601:MET:HB3	1:R:601:MET:HE2	1.64	0.45
1:T:452:ARG:HH11	1:T:452:ARG:HG3	1.81	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:CD1	1:W:249:TRP:N	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:W:533:ASP:CG	1:W:588:PHE:H	2.23	0.45
1:X:180:LYS:O	1:X:182:CYS:N	2.49	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:340:LEU:HG	1:Y:353:ALA:HB2	1.99	0.45
1:Y:352:GLN:O	1:Y:355:ASP:CB	2.64	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:167:VAL:HA	1:a:172:GLN:OE1	2.16	0.45
1:a:179:ARG:CZ	1:a:210:GLU:HB2	2.46	0.45
1:b:9:ARG:CZ	1:b:15:TYR:HB3	2.46	0.45
1:b:84:ARG:HH22	1:b:101:PRO:HD2	1.81	0.45
1:b:291:ASP:HB3	1:b:293:LYS:HB2	1.99	0.45
1:b:490:ASP:N	1:b:493:GLU:HG2	2.32	0.45
1:c:260:VAL:CA	1:c:264:TYR:H	2.25	0.45
1:d:471:TYR:CD1	1:d:478:ALA:HB2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:501:SER:HB3	1:d:507:ARG:O	2.17	0.45
1:e:130:GLU:HA	1:e:137:VAL:H	1.81	0.45
1:e:795:PHE:O	1:e:799:THR:HG22	2.15	0.45
1:g:808:ARG:O	1:g:812:VAL:HG23	2.16	0.45
1:h:36:ILE:HG21	1:h:99:LEU:CD1	2.47	0.45
1:h:380:ILE:HG21	1:h:456:ARG:NH2	2.31	0.45
1:i:707:LEU:HA	1:i:710:GLU:HB2	1.99	0.45
1:j:3:THR:HG22	1:j:50:MET:CE	2.47	0.45
1:j:285:LEU:C	1:j:287:PRO:HD3	2.40	0.45
1:j:775:ALA:O	1:j:778:GLU:HG3	2.17	0.45
1:k:184:ASP:HB3	1:k:187:GLY:O	2.16	0.45
1:k:558:ALA:O	1:k:561:LEU:HD12	2.16	0.45
1:l:111:PRO:HB2	1:l:150:THR:HG21	1.99	0.45
1:m:395:THR:HB	1:m:397:LYS:H	1.81	0.45
1:A:30:VAL:HG22	1:A:74:LEU:HD11	1.99	0.45
1:A:709:LEU:HA	1:A:712:MET:HE3	1.97	0.45
1:B:67:ARG:HG2	1:B:108:ASP:HA	1.97	0.45
1:B:507:ARG:HB2	1:B:510:ALA:HB2	1.98	0.45
1:C:185:ARG:NH2	1:C:208:VAL:HG22	2.31	0.45
1:C:335:LYS:HA	1:C:374:VAL:HG23	1.98	0.45
1:C:474:ARG:CG	1:C:492:GLU:HB2	2.47	0.45
1:C:697:SER:CA	1:D:706:LEU:HD23	2.47	0.45
1:D:771:ILE:HA	1:D:774:ARG:NH1	2.32	0.45
1:E:121:LEU:HD12	1:E:145:PHE:CD2	2.50	0.45
1:F:3:THR:HG22	1:F:50:MET:CE	2.47	0.45
1:F:243:HIS:NE2	1:F:249:TRP:CD2	2.72	0.45
1:F:663:GLU:O	1:F:666:THR:HG22	2.16	0.45
1:G:73:VAL:N	1:G:84:ARG:HB2	2.32	0.45
1:G:230:ARG:HH11	1:G:230:ARG:HB3	1.81	0.45
1:H:171:ASN:O	1:H:216:VAL:HA	2.16	0.45
1:H:279:ARG:CA	1:H:323:VAL:HG22	2.47	0.45
1:H:354:GLY:C	1:I:328:GLU:HG3	2.41	0.45
1:H:390:VAL:HG12	1:H:408:LEU:HD23	1.98	0.45
1:J:245:THR:CG2	1:J:246:GLY:N	2.80	0.45
1:K:67:ARG:NE	1:K:108:ASP:HB3	2.32	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
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:OE1	1:L:146:GLU:HA	2.16	0.45
1:M:130:GLU:HB3	1:M:136:LYS:HA	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:217:ASP:OD1	1:N:218:ALA:N	2.49	0.45
1:N:298:GLN:HG3	1:O:305:GLU:CD	2.41	0.45
1:N:472:ASP:HA	1:N:493:GLU:HB3	1.98	0.45
1:O:68:ASP:OD1	1:O:106:GLU:HA	2.17	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:654:LEU:HD11	1:P:662:ILE:HG21	1.98	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:Q:146:GLU:HA	1:Q:146:GLU:OE1	2.16	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:T:697:SER:CA	1:U:706:LEU:HD23	2.46	0.45
1:U:653:ALA:HB3	1:V:662:ILE:HD13	1.98	0.45
1:U:654:LEU:CD1	1:V:662:ILE:HD13	2.47	0.45
1:V:55:PRO:O	1:V:56:ARG:HG2	2.16	0.45
1:V:336:ALA:O	1:V:371:VAL:HG13	2.17	0.45
1:W:169:LYS:HB3	1:W:201:VAL:CG1	2.47	0.45
1:X:77:ILE:CG1	1:X:80:GLN:H	2.27	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:Y:14:HIS:HB3	1:Y:56:ARG:HB2	1.99	0.45
1:Y:336:ALA:O	1:Y:371:VAL:HG13	2.16	0.45
1:a:537:LEU:HD21	1:a:588:PHE:HE1	1.82	0.45
1:b:288:MET:HE2	1:b:288:MET:HB3	1.87	0.45
1:c:14:HIS:HB2	1:c:56:ARG:HB2	1.99	0.45
1:c:122:HIS:HB3	1:c:160:VAL:H	1.81	0.45
1:c:251:VAL:HG23	1:c:254:GLN:NE2	2.32	0.45
1:c:310:LEU:H	1:c:310:LEU:HD12	1.81	0.45
1:e:16:ILE:CD1	1:e:34:THR:HG21	2.47	0.45
1:e:60:ILE:N	1:e:60:ILE:CD1	2.79	0.45
1:e:227:LEU:HB2	1:e:251:VAL:CG1	2.47	0.45
1:e:260:VAL:CB	1:e:263:VAL:HA	2.42	0.45
1:f:196:TRP:CE3	1:f:196:TRP:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:109:ILE:CD1	1:g:153:PRO:CG	2.91	0.45
1:g:172:GLN:CG	1:g:216:VAL:HG12	2.47	0.45
1:g:191:VAL:CG1	1:g:192:THR:N	2.79	0.45
1:g:217:ASP:OD1	1:g:218:ALA:N	2.49	0.45
1:g:230:ARG:HH11	1:g:230:ARG:HB3	1.81	0.45
1:g:286:ASP:N	1:g:287:PRO:HD3	2.32	0.45
1:g:605:GLY:O	1:g:623:ARG:HB2	2.17	0.45
1:h:18:VAL:HG13	1:h:48:VAL:CG2	2.33	0.45
1:h:276:LEU:O	1:h:277:GLY:C	2.60	0.45
1:h:383:ASP:O	1:h:385:ASN:N	2.49	0.45
1:h:729:ARG:HB2	1:h:729:ARG:HH11	1.82	0.45
1:i:115:VAL:HA	1:i:147:GLY:O	2.17	0.45
1:i:130:GLU:HA	1:i:137:VAL:H	1.81	0.45
1:i:336:ALA:H	1:i:374:VAL:HG23	1.82	0.45
1:i:579:VAL:HG22	1:i:599:ILE:HG23	1.99	0.45
1:j:119:THR:HG23	1:j:163:ILE:HG13	1.99	0.45
1:j:285:LEU:O	1:j:286:ASP:C	2.59	0.45
1:j:326:LEU:O	1:j:328:GLU:HG2	2.16	0.45
1:j:524:THR:HG22	1:j:542:ALA:HB2	1.99	0.45
1:j:595:SER:O	1:j:596:ALA:C	2.59	0.45
1:k:20:ASP:HB2	1:k:49:ARG:HD3	1.98	0.45
1:k:154:GLN:CG	1:k:155:LYS:HG3	2.39	0.45
1:k:234:ASN:N	1:k:234:ASN:HD22	2.14	0.45
1:k:249:TRP:CD1	1:k:249:TRP:H	2.35	0.45
1:l:184:ASP:OD2	1:l:209:PHE:HZ	2.00	0.45
1:l:243:HIS:CD2	1:l:249:TRP:CE2	3.05	0.45
1:l:601:MET:HG3	1:l:622:ALA:HB2	1.98	0.45
1:m:522:PHE:CD2	1:m:522:PHE:C	2.95	0.45
1:A:338:GLN:CB	1:A:339:PRO:CD	2.94	0.45
1:A:697:SER:HB3	1:B:706:LEU:HB2	1.98	0.45
1:B:359:ILE:HD13	1:B:359:ILE:H	1.82	0.45
1:C:550:LYS:HG3	1:C:551:ASN:N	2.31	0.45
1:E:273:ILE:HD12	1:E:316:LEU:HD21	1.99	0.45
1:E:679:ARG:HH21	1:E:680:LEU:HG	1.82	0.45
1:E:781:VAL:O	1:E:782:SER:C	2.60	0.45
1:F:77:ILE:HG13	1:F:80:GLN:H	1.81	0.45
1:F:165:ALA:HB3	1:F:174:LEU:HD11	1.98	0.45
1:F:511:ARG:HH22	1:F:517:LEU:HD11	1.82	0.45
1:G:109:ILE:HD11	1:G:153:PRO:CB	2.45	0.45
1:G:252:THR:O	1:G:253:VAL:C	2.60	0.45
1:G:262:ASP:HB3	1:G:264:TYR:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:554:ASP:HA	1:G:555:PRO:HD3	1.84	0.45
1:H:30:VAL:HG22	1:H:74:LEU:HG	1.98	0.45
1:H:220:ILE:HD11	1:H:251:VAL:HG22	1.98	0.45
1:H:326:LEU:HD23	1:H:326:LEU:HA	1.82	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:459:SER:HA	1:J:488:THR:HA	1.98	0.45
1:K:111:PRO:HB2	1:K:150:THR:HG21	1.99	0.45
1:K:220:ILE:C	1:K:222:THR:N	2.72	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:HD12	1:L:10:ILE:N	2.22	0.45
1:L:398:VAL:HG11	1:L:415:TRP:CE3	2.52	0.45
1:M:337:LEU:HG	1:M:354:GLY:H	1.81	0.45
1:N:67:ARG:HH21	1:N:107:LYS:CA	2.16	0.45
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:396:GLY:CA	1:Q:405:THR:HG23	2.47	0.45
1:P:421:SER:O	1:P:423:VAL:N	2.50	0.45
1:P:709:LEU:HA	1:P:712:MET:HE3	1.98	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:HD23	1:Q:326:LEU:HA	1.50	0.45
1:R:60:ILE:HD13	1:R:93:ALA:O	2.16	0.45
1:R:175:ARG:HB2	1:R:213:LEU:O	2.17	0.45
1:S:51:VAL:O	1:S:53:VAL:HG23	2.17	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:T:20:ASP:OD1	1:U:8:ILE:HD13	2.16	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: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:298:GLN:HG3	1:a:305:GLU:CD	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:327:SER:O	1:Z:331:GLY:N	2.49	0.45
1:a:273:ILE:HG21	1:a:316:LEU:HD11	1.98	0.45
1:a:526:VAL:HG22	1:a:540:GLN:HG2	1.98	0.45
1:b:235:PHE:CZ	1:b:264:TYR:CE1	3.05	0.45
1:b:251:VAL:HG21	1:b:257:GLU:HG2	1.98	0.45
1:b:336:ALA:HA	1:b:356:CYS:HB2	1.97	0.45
1:d:7:ILE:HB	1:d:41:GLU:OE1	2.16	0.45
1:d:9:ARG:HH12	1:d:36:ILE:CA	2.15	0.45
1:e:56:ARG:HD2	1:e:99:LEU:CD2	2.46	0.45
1:e:245:THR:O	1:f:221:LEU:HD23	2.16	0.45
1:e:496:THR:CG2	1:e:496:THR:O	2.63	0.45
1:f:174:LEU:HB2	1:f:198:VAL:HB	1.97	0.45
1:f:335:LYS:HG2	1:f:373:VAL:HG13	1.99	0.45
1:g:13:TYR:N	1:g:13:TYR:CD1	2.85	0.45
1:g:383:ASP:HB2	1:g:386:GLU:HG2	1.99	0.45
1:h:36:ILE:HG21	1:h:99:LEU:HD13	1.99	0.45
1:h:109:ILE:HD12	1:h:153:PRO:CG	2.47	0.45
1:h:185:ARG:HG3	1:h:206:PRO:CB	2.47	0.45
1:h:382:LEU:HB2	1:h:404:SER:O	2.17	0.45
1:h:452:ARG:HG3	1:h:452:ARG:NH1	2.29	0.45
1:h:527:ILE:CD1	1:h:539:LEU:HG	2.47	0.45
1:h:580:ARG:HH22	1:i:595:SER:CB	2.28	0.45
1:j:5:GLU:HB2	1:j:41:GLU:OE1	2.16	0.45
1:j:191:VAL:CG1	1:j:192:THR:N	2.80	0.45
1:j:337:LEU:HD22	1:j:357:TRP:HZ3	1.81	0.45
1:j:419:LEU:HG	1:j:420:PRO:CD	2.38	0.45
1:j:554:ASP:HA	1:j:555:PRO:HD3	1.83	0.45
1:k:181:GLU:O	1:k:182:CYS:C	2.59	0.45
1:k:279:ARG:O	1:k:322:ASP:HA	2.16	0.45
1:l:261:PRO:HD2	1:l:264:TYR:HD1	1.81	0.45
1:l:745:LYS:HG3	1:m:753:ILE:CD1	2.47	0.45
1:m:363:LEU:HD13	1:m:364:GLU:H	1.81	0.45
1:m:795:PHE:O	1:m:799:THR:HG22	2.16	0.45
1:A:3:THR:HG22	1:A:50:MET:HE1	1.99	0.45
1:A:337:LEU:HG	1:A:354:GLY:H	1.82	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:165:ALA:HB3	1:B:174:LEU:HD11	1.99	0.45
1:B:191:VAL:HG12	1:B:194:GLU:HB2	1.99	0.45
1:C:8:ILE:HG22	1:C:40:ASN:HD21	1.82	0.45
1:C:113:GLN:O	1:C:114:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:330:GLN:CD	1:C:407:MET:HG3	2.42	0.45
1:C:653:ALA:CB	1:D:662:ILE:HD11	2.47	0.45
1:D:3:THR:HG22	1:D:50:MET:CE	2.46	0.45
1:D:594:ASN:O	1:D:595:SER:C	2.59	0.45
1:G:14:HIS:ND1	1:G:36:ILE:HG22	2.31	0.45
1:G:106:GLU:O	1:G:107:LYS:HD2	2.17	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
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:154:GLN:HG3	1:J:155:LYS:HG3	1.99	0.45
1:J:217:ASP:OD2	1:J:257:GLU:O	2.34	0.45
1:J:220:ILE:HG13	1:J:256:THR:HA	1.99	0.45
1:J:490:ASP:O	1:J:491:PRO:C	2.59	0.45
1:K:61:VAL:HG13	1:K:65:VAL:HG23	1.97	0.45
1:K:119:THR:HG23	1:K:163:ILE:HG23	1.98	0.45
1:K:221:LEU:HD21	1:K:256:THR:CG2	2.46	0.45
1:K:245:THR:HG22	1:K:246:GLY:N	2.31	0.45
1:L:291:ASP:C	1:L:293:LYS:H	2.24	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:164:GLN:CD	1:M:204:TYR:HB3	2.41	0.45
1:M:419:LEU:HD13	1:M:494:GLN:HE21	1.81	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:244:ARG:HB3	1:O:221:LEU:HD23	1.98	0.45
1:N:794:LYS:O	1:N:798:MET:HG2	2.17	0.45
1:P:243:HIS:NE2	1:P:249:TRP:CD2	2.72	0.45
1:Q:15:TYR:O	1:Q:34:THR:OG1	2.35	0.45
1:Q:31:GLY:H	1:Q:84:ARG:NH1	2.14	0.45
1:Q:260:VAL:C	1:Q:262:ASP:H	2.24	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:HH11	1:S:452:ARG:HG3	1.81	0.45
1:T:23:SER:HB3	1:T:31:GLY:C	2.42	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:394:LYS:HZ1	1:V:329:GLN:HB2	1.81	0.45
1:U:557:GLU:O	1:U:560:LYS:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:V:535:ALA:HA	1:W:658:VAL:HG21	1.99	0.45
1:W:382:LEU:HD22	1:W:387:GLY:HA2	1.98	0.45
1:X:568:VAL:HG23	1:X:569:GLY:H	1.82	0.45
1:a:252:THR:O	1:a:254:GLN:N	2.50	0.45
1:a:380:ILE:H	1:a:380:ILE:HG13	1.58	0.45
1:b:230:ARG:HB3	1:b:230:ARG:NH1	2.29	0.45
1:b:329:GLN:OE1	1:b:330:GLN:HG2	2.17	0.45
1:c:54:PRO:HB2	1:c:55:PRO:HD3	1.99	0.45
1:c:589:ASP:HB2	1:d:665:THR:HG21	1.99	0.45
1:d:144:LEU:HD12	1:d:144:LEU:H	1.81	0.45
1:e:490:ASP:O	1:e:491:PRO:C	2.59	0.45
1:f:146:GLU:HA	1:f:146:GLU:OE1	2.17	0.45
1:f:645:PRO:HG2	1:f:651:ARG:HG3	1.98	0.45
1:f:752:ALA:O	1:f:756:GLU:HB2	2.16	0.45
1:g:65:VAL:HG13	1:g:110:THR:HG22	1.99	0.45
1:g:382:LEU:N	1:g:405:THR:HG22	2.32	0.45
1:h:36:ILE:O	1:h:36:ILE:HG13	2.15	0.45
1:h:125:ALA:HB3	1:h:140:GLY:HA2	1.99	0.45
1:h:332:LEU:HG	1:h:360:ARG:HB2	1.99	0.45
1:h:532:ALA:HB2	1:h:584:ALA:O	2.17	0.45
1:h:554:ASP:HA	1:h:555:PRO:HD3	1.85	0.45
1:i:154:GLN:HG3	1:i:155:LYS:N	2.32	0.45
1:i:165:ALA:HB2	1:i:211:GLU:CD	2.42	0.45
1:k:114:VAL:HB	1:k:118:ASN:HD21	1.82	0.45
1:k:452:ARG:HG3	1:k:452:ARG:NH1	2.32	0.45
1:l:536:ARG:HB2	1:l:646:VAL:HB	1.98	0.45
1:m:205:LEU:HD22	1:m:211:GLU:HB2	1.99	0.45
1:m:807:ILE:H	1:m:807:ILE:HG13	1.62	0.45
1:B:30:VAL:HA	1:B:74:LEU:HD11	1.97	0.45
1:B:123:LEU:HG	1:B:143:TRP:HB2	1.98	0.45
1:B:327:SER:O	1:B:328:GLU:CB	2.65	0.45
1:C:1:MET:HE1	1:C:47:PRO:HB3	1.98	0.45
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:17:HIS:CD2	1:D:18:VAL:HG22	2.52	0.45
1:D:221:LEU:CD2	1:D:256:THR:HG21	2.46	0.45
1:D:586:VAL:HG12	1:D:587:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:330:GLN:CB	1:F:379:ALA:HB3	2.32	0.45
1:F:501:SER:HA	1:F:507:ARG:O	2.17	0.45
1:F:539:LEU:HD22	1:F:643:VAL:HG22	1.98	0.45
1:G:123:LEU:CD1	1:G:143:TRP:HB2	2.46	0.45
1:G:232:LEU:HD21	1:G:265:GLU:HB2	1.98	0.45
1:H:130:GLU:HA	1:H:137:VAL:HG13	1.99	0.45
1:H:539:LEU:HD22	1:H:643:VAL:HG22	1.98	0.45
1:I:23:SER:HB2	1:I:31:GLY:HA2	1.99	0.45
1:I:250:LEU:HD13	1:I:311:GLN:HA	1.99	0.45
1:I:527:ILE:HD11	1:I:539:LEU:HB2	1.98	0.45
1:I:653:ALA:HB3	1:J:662:ILE:HD13	1.94	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:K:144:LEU:HD12	1:K:144:LEU:N	2.32	0.45
1:K:600:ARG:NH1	1:K:622:ALA:HB3	2.31	0.45
1:L:328:GLU:HA	1:L:362:PRO:HA	1.99	0.45
1:M:221:LEU:CD2	1:M:256:THR:CG2	2.89	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:383:ASP:C	1:M:385:ASN:H	2.25	0.45
1:M:655:GLN:O	1:M:658:VAL:HG12	2.17	0.45
1:N:108:ASP:N	1:N:108:ASP:OD1	2.49	0.45
1:N:179:ARG:HE	1:N:179:ARG:HB2	1.47	0.45
1:O:334:LEU:C	1:O:335:LYS:HG3	2.41	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:3:THR:HG22	1:S:50:MET:HE2	1.98	0.45
1:S:13:TYR:N	1:S:13:TYR:HD1	2.15	0.45
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:a:5:GLU:HB2	1:a:41:GLU:OE1	2.16	0.45
1:a:115:VAL:HA	1:a:147:GLY:O	2.17	0.45
1:b:175:ARG:NE	1:b:263:VAL:HG22	2.27	0.45
1:b:526:VAL:HA	1:b:539:LEU:O	2.17	0.45
1:d:734:ARG:HH21	1:d:735:ILE:CD1	2.30	0.45
1:e:354:GLY:O	1:e:356:CYS:N	2.50	0.45
1:f:452:ARG:NH2	1:f:456:ARG:O	2.50	0.45
1:f:808:ARG:O	1:f:812:VAL:HG23	2.17	0.45
1:g:13:TYR:N	1:g:13:TYR:HD1	2.15	0.45
1:g:285:LEU:HD13	1:g:315:ARG:HH11	1.81	0.45
1:g:649:ARG:NH2	1:h:655:GLN:HG2	2.31	0.45
1:h:179:ARG:NH2	1:h:209:PHE:O	2.50	0.45
1:i:419:LEU:CG	1:i:420:PRO:HD2	2.33	0.45
1:j:359:ILE:H	1:j:359:ILE:HD13	1.82	0.45
1:k:387:GLY:HA3	1:k:402:ILE:HG22	1.99	0.45
1:k:481:VAL:O	1:k:481:VAL:HG13	2.17	0.45
1:l:121:LEU:HB2	1:l:145:PHE:CB	2.37	0.45
1:l:383:ASP:O	1:l:384:GLN:C	2.59	0.45
1:A:415:TRP:C	1:A:455:THR:HG22	2.41	0.44
1:B:175:ARG:HB2	1:B:213:LEU:O	2.16	0.44
1:B:340:LEU:HD23	1:B:352:GLN:HA	1.99	0.44
1:B:504:ARG:HD3	1:B:504:ARG:HA	1.84	0.44
1:C:384:GLN:H	1:C:384:GLN:NE2	2.14	0.44
1:C:566:ASP:OD2	1:C:569:GLY:HA3	2.18	0.44
1:D:360:ARG:HG3	1:D:361:GLY:N	2.32	0.44
1:D:415:TRP:CH2	1:D:417:LYS:HB3	2.51	0.44
1:E:5:GLU:OE1	1:E:43:VAL:HG11	2.17	0.44
1:E:93:ALA:C	1:E:95:ASP:H	2.26	0.44
1:E:501:SER:CB	1:E:507:ARG:O	2.64	0.44
1:F:335:LYS:NZ	1:F:359:ILE:HD12	2.32	0.44
1:G:9:ARG:CZ	1:G:15:TYR:HB3	2.46	0.44
1:G:734:ARG:HH21	1:G:735:ILE:HD13	1.82	0.44
1:H:32:PRO:HG2	1:I:11:PRO:CG	2.44	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
1:I:330:GLN:CG	1:I:379:ALA:CB	2.64	0.44
1:I:676:GLU:HA	1:I:676:GLU:OE1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:14:HIS:HB3	1:J:56:ARG:CG	2.46	0.44
1:J:100:TYR:HB3	1:J:101:PRO:CD	2.46	0.44
1:K:194:GLU:HG2	1:K:195:GLU:N	2.29	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:707:LEU:HA	1:K:710:GLU:HB2	1.99	0.44
1:L:56:ARG:HD2	1:L:99:LEU:HD21	1.96	0.44
1:L:311:GLN:N	1:L:314:GLU:HG3	2.32	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:N:23:SER:HB3	1:N:31:GLY:C	2.42	0.44
1:N:389:TYR:CZ	1:N:457:VAL:HA	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:781:VAL:O	1:S:782:SER:C	2.59	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:N	1:U:249:TRP:CD1	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: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:X:13:TYR:N	1:X:13:TYR:CD1	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:Y:23:SER:HB3	1:Y:31:GLY:C	2.43	0.44
1:Z:109:ILE:HD12	1:Z:153:PRO:CG	2.47	0.44
1:Z:113:GLN:HE21	1:Z:150:THR:HG22	1.82	0.44
1:a:32:PRO:HG2	1:b:11:PRO:HG2	1.99	0.44
1:a:184:ASP:O	1:a:187:GLY:O	2.35	0.44
1:a:262:ASP:HB3	1:a:264:TYR:HE1	1.75	0.44
1:c:125:ALA:HB1	1:c:128:ASP:HB3	1.99	0.44
1:c:150:THR:HG23	1:c:151:TYR:N	2.32	0.44
1:c:180:LYS:O	1:c:182:CYS:N	2.50	0.44
1:c:197:LEU:HD12	1:c:199:ARG:NH1	2.32	0.44
1:d:77:ILE:HG13	1:d:80:GLN:N	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:481:VAL:HG21	1:d:487:VAL:HG13	1.99	0.44
1:e:185:ARG:NH1	1:e:206:PRO:HB3	2.32	0.44
1:e:746:LEU:HD23	1:e:749:GLN:NE2	2.32	0.44
1:f:70:GLN:O	1:f:70:GLN:HG3	2.16	0.44
1:f:243:HIS:NE2	1:f:249:TRP:CD2	2.80	0.44
1:f:271:VAL:HG12	1:f:272:PRO:HD2	1.98	0.44
1:f:276:LEU:N	1:f:280:HIS:HB2	2.32	0.44
1:g:64:PRO:HA	1:g:111:PRO:HD2	1.99	0.44
1:g:113:GLN:OE1	1:g:149:GLY:HA2	2.17	0.44
1:g:128:ASP:HB2	1:g:155:LYS:HB3	1.99	0.44
1:g:408:LEU:CD2	1:g:414:LEU:HD12	2.38	0.44
1:g:758:GLU:O	1:g:762:VAL:HG23	2.16	0.44
1:h:330:GLN:HG3	1:h:379:ALA:HB2	1.83	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	2.47	0.44
1:k:15:TYR:CE2	1:k:17:HIS:HB3	2.51	0.44
1:k:51:VAL:O	1:k:53:VAL:HG23	2.17	0.44
1:k:569:GLY:O	1:k:573:LYS:HB2	2.17	0.44
1:l:286:ASP:N	1:l:287:PRO:HD3	2.33	0.44
1:l:533:ASP:OD1	1:l:587:THR:HA	2.17	0.44
1:m:181:GLU:HA	1:m:181:GLU:OE1	2.17	0.44
1:m:182:CYS:SG	1:m:208:VAL:HG21	2.57	0.44
1:A:61:VAL:HG13	1:A:65:VAL:CG2	2.44	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:B:29:GLU:O	1:B:84:ARG:HD3	2.17	0.44
1:B:231:ALA:HB3	1:B:244:ARG:O	2.18	0.44
1:C:228:HIS:NE2	1:C:312:PRO:HB3	2.32	0.44
1:C:338:GLN:CB	1:C:339:PRO:CD	2.93	0.44
1:C:452:ARG:HG3	1:C:452:ARG:HH11	1.81	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:179:ARG:HH12	1:D:210:GLU:HG3	1.83	0.44
1:D:262:ASP:HB3	1:D:264:TYR:CE1	2.53	0.44
1:D:328:GLU:OE1	1:D:328:GLU:CA	2.46	0.44
1:D:601:MET:HB3	1:D:601:MET:HE2	1.61	0.44
1:E:713:SER:O	1:E:714:MET:C	2.59	0.44
1:H:57:HIS:O	1:H:99:LEU:HD11	2.17	0.44
1:H:70:GLN:HB3	1:H:104:VAL:O	2.16	0.44
1:H:109:ILE:HD12	1:H:153:PRO:CG	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:169:LYS:HG3	1:H:170:GLN:H	1.83	0.44
1:H:452:ARG:HG3	1:H:452:ARG:NH1	2.30	0.44
1:H:482:PHE:HE2	1:H:561:LEU:CD1	2.30	0.44
1:H:654:LEU:HD13	1:I:662:ILE:CD1	2.47	0.44
1:H:799:THR:HG21	1:I:801:ALA:HB1	1.98	0.44
1:I:666:THR:CG2	1:I:667:ASN:N	2.80	0.44
1:J:15:TYR:O	1:J:34:THR:OG1	2.35	0.44
1:K:31:GLY:H	1:K:84:ARG:NH1	2.14	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:601:MET:HE2	1:K:601:MET:HB3	1.70	0.44
1:L:49:ARG:NH2	1:M:8:ILE:HD12	2.32	0.44
1:L:279:ARG:HA	1:L:323:VAL:HG22	1.99	0.44
1:L:692:LYS:HG2	1:L:696:GLN:NE2	2.31	0.44
1:M:465:ASN:HB3	1:M:519:GLY:HA3	1.99	0.44
1:M:597:ARG:HG3	1:M:600:ARG:HH21	1.81	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:3:THR:HG22	1:O:50:MET:HE2	1.99	0.44
1:O:43:VAL:HG12	1:O:45:PHE:O	2.16	0.44
1:O:426:LEU:C	1:O:428:ASN:H	2.26	0.44
1:Q:36:ILE:O	1:Q:37:ARG:HG3	2.16	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:S:395:THR:C	1:S:397:LYS:H	2.25	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:N	1:T:296:LEU:HD22	2.31	0.44
1:U:8:ILE:HA	1:U:40:ASN:HD22	1.82	0.44
1:U:337:LEU:HD12	1:U:371:VAL:HA	1.98	0.44
1:U:777:LEU:CD1	1:V:783:LYS:HB2	2.47	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:W:61:VAL:HG13	1:W:65:VAL:HG23	1.99	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:708:GLU:HG3	1:X:716:VAL:CG1	2.47	0.44
1:X:6:ALA:HA	1:X:41:GLU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:Y:36:ILE:CG2	1:Y:99:LEU:HB2	2.46	0.44
1:Y:259:HIS:C	1:Y:261:PRO:HD3	2.42	0.44
1:Y:533:ASP:OD1	1:Y:533:ASP:N	2.51	0.44
1:a:6:ALA:HA	1:a:41:GLU:O	2.18	0.44
1:a:30:VAL:HG22	1:a:74:LEU:HG	1.98	0.44
1:a:474:ARG:HH22	1:b:384:GLN:HG2	1.82	0.44
1:b:14:HIS:CE1	1:b:99:LEU:HB2	2.52	0.44
1:b:523:PHE:CD1	1:b:545:TRP:NE1	2.85	0.44
1:c:113:GLN:OE1	1:c:149:GLY:HA2	2.18	0.44
1:c:588:PHE:O	1:c:589:ASP:C	2.61	0.44
1:d:60:ILE:N	1:d:60:ILE:CD1	2.77	0.44
1:d:174:LEU:CB	1:d:198:VAL:HB	2.47	0.44
1:d:453:ASN:OD1	1:d:453:ASN:C	2.60	0.44
1:f:354:GLY:CA	1:g:328:GLU:HG3	2.48	0.44
1:f:417:LYS:O	1:f:418:GLU:HB2	2.18	0.44
1:g:36:ILE:HG12	1:g:58:TYR:CE1	2.53	0.44
1:g:130:GLU:H	1:g:137:VAL:HG13	1.82	0.44
1:g:232:LEU:H	1:g:264:TYR:HD2	1.64	0.44
1:h:399:ARG:HE	1:h:401:VAL:CG2	2.30	0.44
1:i:30:VAL:HG13	1:i:74:LEU:HD11	1.98	0.44
1:i:398:VAL:HG12	1:i:491:PRO:HB3	1.98	0.44
1:i:758:GLU:O	1:i:762:VAL:HG23	2.17	0.44
1:j:268:LEU:HD13	1:j:269:GLY:N	2.32	0.44
1:j:733:ALA:HA	1:j:736:GLU:HB2	1.98	0.44
1:j:767:GLU:O	1:j:771:ILE:HG12	2.17	0.44
1:l:496:THR:O	1:l:496:THR:CG2	2.65	0.44
1:l:766:ARG:CG	1:m:772:TYR:CD1	3.01	0.44
1:l:777:LEU:O	1:l:780:GLU:HB2	2.17	0.44
1:m:533:ASP:O	1:m:534:HIS:HB2	2.17	0.44
1:A:36:ILE:HG21	1:A:99:LEU:H	1.82	0.44
1:A:76:ASP:HB3	1:A:80:GLN:O	2.16	0.44
1:A:380:ILE:HD11	1:A:388:ILE:HD13	1.99	0.44
1:B:16:ILE:CD1	1:B:34:THR:HG21	2.48	0.44
1:B:36:ILE:CD1	1:B:58:TYR:HE1	2.30	0.44
1:B:245:THR:C	1:B:247:GLU:H	2.26	0.44
1:B:501:SER:HB3	1:B:507:ARG:O	2.18	0.44
1:B:530:GLU:HA	1:B:535:ALA:O	2.17	0.44
1:B:591:PHE:HE2	1:B:599:ILE:CD1	2.30	0.44
1:C:249:TRP:CD1	1:C:249:TRP:H	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:549:LEU:HD12	1:C:552:ARG:HA	1.98	0.44
1:D:273:ILE:HG23	1:D:310:LEU:HD11	1.98	0.44
1:D:728:SER:O	1:D:729:ARG:C	2.59	0.44
1:E:308:PHE:HD1	1:E:308:PHE:HA	1.71	0.44
1:E:557:GLU:HA	1:E:560:LYS:HB2	1.99	0.44
1:E:755:THR:HG21	1:F:761:ARG:HG2	2.00	0.44
1:E:808:ARG:NH2	1:F:806:THR:HA	2.33	0.44
1:F:383:ASP:H	1:F:386:GLU:HG2	1.82	0.44
1:G:234:ASN:HA	1:G:243:HIS:O	2.17	0.44
1:I:36:ILE:O	1:I:36:ILE:CD1	2.52	0.44
1:I:54:PRO:CB	1:I:55:PRO:HD3	2.39	0.44
1:I:173:ALA:HB1	1:I:198:VAL:O	2.17	0.44
1:I:339:PRO:HG3	1:J:278:PRO:HB3	1.99	0.44
1:I:355:ASP:HA	1:J:328:GLU:HB2	1.99	0.44
1:J:495:PHE:CB	1:J:514:LEU:HD11	2.40	0.44
1:J:808:ARG:O	1:J:812:VAL:HG23	2.18	0.44
1:K:11:PRO:CA	1:K:38:GLN:HA	2.43	0.44
1:K:130:GLU:HA	1:K:137:VAL:H	1.82	0.44
1:K:241:VAL:O	1:K:243:HIS:ND1	2.51	0.44
1:K:251:VAL:HG22	1:K:254:GLN:HE21	1.82	0.44
1:K:535:ALA:HA	1:L:658:VAL:HG21	2.00	0.44
1:L:220:ILE:C	1:L:222:THR:H	2.25	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:M:523:PHE:CD1	1:M:568:VAL:HG12	2.52	0.44
1:M:523:PHE:CE1	1:M:568:VAL:HG12	2.51	0.44
1:N:8:ILE:HG22	1:N:40:ASN:HD21	1.83	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:O:5:GLU:CG	1:O:43:VAL:HG21	2.47	0.44
1:O:165:ALA:O	1:O:203:ALA:O	2.36	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
1:Q:13:TYR:N	1:Q:13:TYR:CD1	2.85	0.44
1:Q:120:ALA:HB2	1:Q:164:GLN:NE2	2.32	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:N	1:R:151:TYR:CD1	2.86	0.44
1:R:230:ARG:HH11	1:R:230:ARG:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:564:VAL:HG22	1:R:631:ASN:HB3	2.00	0.44
1:T:108:ASP:OD1	1:T:108:ASP:N	2.51	0.44
1:T:226:ALA:HB2	1:T:252:THR:HB	1.98	0.44
1:U:402:ILE:C	1:U:402:ILE:HD12	2.42	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:HB2	1:V:729:ARG:NH1	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: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:b:109:ILE:CD1	1:b:153:PRO:HB2	2.47	0.44
1:c:9:ARG:CZ	1:c:15:TYR:HB3	2.46	0.44
1:c:327:SER:O	1:c:328:GLU:C	2.61	0.44
1:e:331:GLY:O	1:e:360:ARG:HB2	2.16	0.44
1:e:402:ILE:C	1:e:402:ILE:HD12	2.42	0.44
1:g:115:VAL:HB	1:g:148:PRO:HA	2.00	0.44
1:g:227:LEU:HB2	1:g:251:VAL:HG13	1.99	0.44
1:g:268:LEU:HD13	1:g:269:GLY:N	2.29	0.44
1:g:523:PHE:CD1	1:g:545:TRP:NE1	2.86	0.44
1:i:114:VAL:HA	1:i:118:ASN:HD21	1.82	0.44
1:i:653:ALA:HB1	1:j:662:ILE:HD12	1.80	0.44
1:j:55:PRO:O	1:j:56:ARG:HG2	2.17	0.44
1:j:227:LEU:HD13	1:j:229:LEU:HD21	1.98	0.44
1:j:766:ARG:HD2	1:k:768:MET:CE	2.44	0.44
1:k:90:ILE:HD12	1:k:154:GLN:CB	2.45	0.44
1:k:227:LEU:HB2	1:k:251:VAL:HG13	1.99	0.44
1:k:551:ASN:HB3	1:k:554:ASP:HB2	1.99	0.44
1:k:573:LYS:HE3	1:l:522:PHE:CZ	2.53	0.44
1:l:382:LEU:HB2	1:l:404:SER:O	2.17	0.44
1:l:402:ILE:HD12	1:l:402:ILE:C	2.42	0.44
1:l:777:LEU:HD11	1:m:783:LYS:HA	1.99	0.44
1:m:171:ASN:O	1:m:216:VAL:HA	2.17	0.44
1:m:255:ASP:CG	1:m:256:THR:N	2.75	0.44
1:A:199:ARG:NH2	1:A:258:ALA:HB3	2.33	0.44
1:A:469:GLN:HB3	1:A:496:THR:CG2	2.48	0.44
1:B:36:ILE:O	1:B:37:ARG:HG3	2.17	0.44
1:B:121:LEU:HD12	1:B:145:PHE:CD2	2.47	0.44
1:B:481:VAL:O	1:B:481:VAL:HG13	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:508:PRO:O	1:B:509:HIS:CD2	2.66	0.44
1:C:5:GLU:O	1:C:41:GLU:O	2.36	0.44
1:C:339:PRO:HG3	1:D:278:PRO:HB3	2.00	0.44
1:D:177:ARG:HB2	1:D:177:ARG:HH11	1.83	0.44
1:D:337:LEU:HD23	1:D:337:LEU:N	2.32	0.44
1:F:125:ALA:HB1	1:F:128:ASP:HB3	1.99	0.44
1:G:176:LEU:HD23	1:G:211:GLU:HA	2.00	0.44
1:G:252:THR:H	1:G:254:GLN:NE2	2.15	0.44
1:G:333:LEU:HB2	1:G:359:ILE:HD11	2.00	0.44
1:I:73:VAL:HG21	1:I:82:ARG:HB2	1.99	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:57:HIS:O	1:K:99:LEU:HD11	2.17	0.44
1:K:407:MET:SD	1:K:407:MET:N	2.87	0.44
1:K:568:VAL:HG23	1:K:569:GLY:N	2.32	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:275:THR:O	1:L:305:GLU:HA	2.18	0.44
1:L:296:LEU:HD13	1:L:296:LEU:H	1.83	0.44
1:L:425:GLU:HB2	1:L:514:LEU:HD22	1.98	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:M:329:GLN:NE2	1:M:330:GLN:HG2	2.32	0.44
1:O:62:ALA:C	1:O:93:ALA:HB2	2.42	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: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:P:244:ARG:HD2	1:Q:221:LEU:HD21	1.99	0.44
1:T:235:PHE:CE1	1:T:264:TYR:CE1	3.06	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:X:425:GLU:CD	1:X:425:GLU:H	2.25	0.44
1:Y:16:ILE:HB	1:Y:51:VAL:HB	1.99	0.44
1:Y:60:ILE:N	1:Y:60:ILE:HD13	2.32	0.44
1:Y:123:LEU:CD1	1:Y:143:TRP:HB2	2.47	0.44
1:Z:183:PHE:CD2	1:Z:190:ARG:HD3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:3:THR:HG22	1:a:50:MET:CE	2.48	0.44
1:a:70:GLN:HA	1:a:88:GLN:HG3	1.98	0.44
1:a:184:ASP:HB2	1:a:189:GLY:O	2.18	0.44
1:a:490:ASP:O	1:a:491:PRO:C	2.59	0.44
1:c:123:LEU:HD11	1:c:143:TRP:HD1	1.83	0.44
1:d:228:HIS:NE2	1:d:312:PRO:HB3	2.32	0.44
1:e:245:THR:OG1	1:f:170:GLN:OE1	2.35	0.44
1:e:335:LYS:HE2	1:e:371:VAL:HG11	1.98	0.44
1:e:715:ALA:HA	1:f:724:ALA:HB1	1.99	0.44
1:f:224:LYS:HA	1:f:272:PRO:HG3	2.00	0.44
1:f:273:ILE:HD11	1:f:308:PHE:HD2	1.82	0.44
1:h:1:MET:HE1	1:h:47:PRO:HB3	1.96	0.44
1:h:398:VAL:HG11	1:h:415:TRP:CE3	2.52	0.44
1:h:502:ALA:HB2	1:h:511:ARG:HB3	1.99	0.44
1:i:14:HIS:CB	1:i:56:ARG:HB2	2.47	0.44
1:i:109:ILE:HD12	1:i:153:PRO:CG	2.47	0.44
1:i:337:LEU:HD23	1:i:337:LEU:H	1.82	0.44
1:k:116:LEU:O	1:k:117:PRO:C	2.60	0.44
1:k:165:ALA:HB2	1:k:211:GLU:OE2	2.18	0.44
1:k:206:PRO:HD2	1:k:209:PHE:CD1	2.53	0.44
1:l:5:GLU:HA	1:l:7:ILE:CD1	2.47	0.44
1:l:130:GLU:CA	1:l:137:VAL:H	2.31	0.44
1:l:164:GLN:CD	1:l:204:TYR:HB3	2.43	0.44
1:l:426:LEU:C	1:l:428:ASN:H	2.26	0.44
1:l:529:ILE:HD12	1:l:537:LEU:HB2	1.98	0.44
1:A:72:SER:OG	1:A:102:GLY:O	2.34	0.44
1:A:159:VAL:HG12	1:A:160:VAL:HG22	1.99	0.44
1:A:296:LEU:HD13	1:A:296:LEU:H	1.83	0.44
1:A:326:LEU:CD2	1:A:333:LEU:HG	2.47	0.44
1:B:70:GLN:HE21	1:B:104:VAL:HG12	1.82	0.44
1:B:122:HIS:HB3	1:B:159:VAL:HB	2.00	0.44
1:B:288:MET:HE2	1:B:288:MET:HB3	1.87	0.44
1:B:340:LEU:HG	1:B:353:ALA:HB2	2.00	0.44
1:C:755:THR:HG21	1:D:761:ARG:HG2	2.00	0.44
1:D:286:ASP:N	1:D:287:PRO:HD3	2.33	0.44
1:D:288:MET:HE2	1:D:288:MET:HB3	1.94	0.44
1:D:627:VAL:HG13	1:D:634:VAL:HG22	2.00	0.44
1:E:327:SER:O	1:E:328:GLU:CB	2.65	0.44
1:E:729:ARG:NH1	1:E:729:ARG:HB2	2.33	0.44
1:F:380:ILE:O	1:F:380:ILE:HD12	2.17	0.44
1:F:465:ASN:HB3	1:F:519:GLY:HA3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:245:THR:OG1	1:I:170:GLN:OE1	2.36	0.44
1:H:298:GLN:HG3	1:I:305:GLU:CD	2.43	0.44
1:I:130:GLU:HA	1:I:137:VAL:HG13	1.99	0.44
1:I:291:ASP:C	1:I:293:LYS:H	2.25	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:252:THR:H	1:J:254:GLN:HE21	1.61	0.44
1:J:402:ILE:HD12	1:J:402:ILE:O	2.18	0.44
1:K:113:GLN:OE1	1:K:149:GLY:HA2	2.17	0.44
1:K:123:LEU:CG	1:K:143:TRP:HB2	2.47	0.44
1:L:164:GLN:HB3	1:L:204:TYR:HA	1.98	0.44
1:L:190:ARG:O	1:L:190:ARG:HG3	2.16	0.44
1:M:67:ARG:HE	1:M:107:LYS:C	2.25	0.44
1:M:275:THR:O	1:M:305:GLU:HA	2.18	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:72:SER:HB3	1:P:84:ARG:HH21	1.82	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
1:P:516:LEU:HB2	1:P:562:PHE:CE2	2.53	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:N	1:S:13:TYR:CD1	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:18:VAL:O	1:V:32:PRO:HB3	2.17	0.44
1:V:183:PHE:HD2	1:V:184:ASP:N	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:398:VAL:H	1:X:384:GLN:CD	2.26	0.44
1:X:231:ALA:HB1	1:X:235:PHE:HE2	1.81	0.44
1:Y:128:ASP:OD1	1:Y:131:ASP:HB3	2.18	0.44
1:Z:144:LEU:H	1:Z:144:LEU:HD12	1.83	0.44
1:c:61:VAL:HG13	1:c:65:VAL:HB	1.99	0.44
1:c:523:PHE:CD1	1:c:568:VAL:HG12	2.53	0.44
1:c:649:ARG:HH21	1:d:655:GLN:HG2	1.82	0.44
1:d:100:TYR:CB	1:d:101:PRO:CD	2.87	0.44
1:d:340:LEU:HD23	1:d:352:GLN:CA	2.40	0.44
1:d:719:THR:HG22	1:e:728:SER:HA	1.99	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	2.00	0.44
1:g:279:ARG:O	1:g:323:VAL:N	2.49	0.44
1:h:251:VAL:CG2	1:h:254:GLN:NE2	2.80	0.44
1:h:279:ARG:HG3	1:h:280:HIS:HD2	1.82	0.44
1:i:171:ASN:O	1:i:216:VAL:HA	2.18	0.44
1:j:29:GLU:O	1:j:84:ARG:HD3	2.18	0.44
1:j:251:VAL:HA	1:j:254:GLN:HE22	1.83	0.44
1:k:28:VAL:HG12	1:k:30:VAL:CG2	2.38	0.44
1:k:68:ASP:O	1:k:106:GLU:HB2	2.17	0.44
1:k:549:LEU:HG	1:k:561:LEU:HD11	1.98	0.44
1:l:154:GLN:HG3	1:l:155:LYS:NZ	2.31	0.44
1:l:338:GLN:CB	1:l:339:PRO:CD	2.94	0.44
1:l:777:LEU:HD22	1:m:779:LEU:HD13	1.99	0.44
1:m:284:ILE:HG22	1:m:316:LEU:HD23	1.99	0.44
1:B:14:HIS:O	1:B:53:VAL:HB	2.18	0.44
1:B:30:VAL:HG22	1:B:74:LEU:CG	2.48	0.44
1:B:517:LEU:O	1:B:545:TRP:CH2	2.68	0.44
1:C:340:LEU:HG	1:C:353:ALA:HB2	1.99	0.44
1:C:473:TYR:HD2	1:D:486:LEU:HB3	1.82	0.44
1:C:799:THR:HG21	1:D:801:ALA:HB1	2.00	0.44
1:D:61:VAL:HG13	1:D:65:VAL:CG2	2.48	0.44
1:D:281:TYR:O	1:D:282:CYS:HB3	2.17	0.44
1:E:332:LEU:HD23	1:E:358:LEU:HD11	1.98	0.44
1:E:395:THR:HB	1:E:397:LYS:H	1.83	0.44
1:E:397:LYS:HA	1:F:384:GLN:OE1	2.17	0.44
1:F:69:THR:O	1:F:89:GLU:N	2.48	0.44
1:F:697:SER:CA	1:G:706:LEU:HD23	2.46	0.44
1:G:11:PRO:HB2	1:G:12:PRO:HD3	2.00	0.44
1:G:53:VAL:HG11	1:G:56:ARG:HG3	1.98	0.44
1:H:236:ARG:HB3	1:H:236:ARG:HH11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:567:PHE:HD2	1:H:633:LEU:CD1	2.31	0.44
1:H:813:ALA:O	1:H:815:PRO:HD3	2.17	0.44
1:I:286:ASP:N	1:I:287:PRO:HD3	2.33	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:116:LEU:C	1:L:118:ASN:N	2.75	0.44
1:L:165:ALA:HB2	1:L:211:GLU:OE2	2.17	0.44
1:L:276:LEU:N	1:L:280:HIS:HB2	2.32	0.44
1:L:396:GLY:CA	1:M:405:THR:HG23	2.47	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: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:62:ALA:O	1:O:93:ALA:HB2	2.18	0.44
1:O:623:ARG:HG3	1:O:624:ASP:H	1.83	0.44
1:O:715:ALA:HA	1:P:724:ALA:HB1	2.00	0.44
1:O:768:MET:HE3	1:O:768:MET:HB3	1.86	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:Q:55:PRO:O	1:Q:56:ARG:HG2	2.17	0.44
1:Q:334:LEU:HD23	1:Q:357:TRP:O	2.18	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
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:69:THR:HA	1:S:106:GLU:HB3	2.00	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:811:ALA:C	1:S:813:ALA:H	2.24	0.44
1:T:217:ASP:HB2	1:T:258:ALA:HA	2.00	0.44
1:T:255:ASP:CG	1:T:256:THR:H	2.25	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:155:LYS:HZ2	1:V:155:LYS:HB2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:234:ASN:O	1:W:235:PHE:HB3	2.16	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:W:649:ARG:HH21	1:X:655:GLN:HG2	1.83	0.44
1:X:196:TRP:HA	1:X:196:TRP:HE3	1.79	0.44
1:X:249:TRP:N	1:X:249:TRP:CD1	2.85	0.44
1:X:330:GLN:HE22	1:X:360:ARG:HD2	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:127:LEU:HB3	1:a:64:PRO:HD3	1.98	0.44
1:Z:273:ILE:HG13	1:Z:308:PHE:HB3	1.99	0.44
1:Z:284:ILE:HD11	1:Z:300:ARG:HB3	2.00	0.44
1:Z:516:LEU:HD21	1:Z:567:PHE:CE1	2.52	0.44
1:a:281:TYR:O	1:a:282:CYS:HB3	2.17	0.44
1:b:324:TYR:O	1:b:364:GLU:HA	2.18	0.44
1:b:558:ALA:O	1:b:561:LEU:HB2	2.17	0.44
1:b:771:ILE:HD13	1:b:774:ARG:HH11	1.77	0.44
1:c:383:ASP:OD1	1:c:383:ASP:N	2.51	0.44
1:c:777:LEU:HD11	1:d:783:LYS:HB2	1.99	0.44
1:d:128:ASP:HB2	1:d:155:LYS:O	2.18	0.44
1:d:490:ASP:N	1:d:493:GLU:HG2	2.33	0.44
1:d:737:GLY:HA3	1:e:746:LEU:HD13	2.00	0.44
1:e:7:ILE:HD13	1:e:41:GLU:OE1	2.18	0.44
1:e:70:GLN:HB3	1:e:104:VAL:H	1.82	0.44
1:e:116:LEU:HB3	1:e:117:PRO:CD	2.45	0.44
1:f:3:THR:H	1:f:50:MET:HE1	1.82	0.44
1:g:115:VAL:O	1:g:118:ASN:CB	2.66	0.44
1:g:554:ASP:OD1	1:g:557:GLU:HB2	2.18	0.44
1:h:5:GLU:O	1:h:41:GLU:O	2.35	0.44
1:h:220:ILE:O	1:h:253:VAL:HG22	2.18	0.44
1:h:244:ARG:N	1:h:247:GLU:OE1	2.46	0.44
1:h:729:ARG:HB2	1:h:729:ARG:CZ	2.48	0.44
1:i:283:VAL:HG22	1:i:301:VAL:HG12	2.00	0.44
1:j:72:SER:OG	1:j:102:GLY:O	2.35	0.44
1:j:180:LYS:HD2	1:j:208:VAL:HG12	2.00	0.44
1:j:222:THR:C	1:j:224:LYS:N	2.73	0.44
1:j:523:PHE:CD1	1:j:568:VAL:HG12	2.53	0.44
1:j:574:ALA:O	1:j:578:ARG:HG3	2.17	0.44
1:j:597:ARG:HG3	1:j:600:ARG:HH21	1.82	0.44
1:l:36:ILE:HG21	1:l:99:LEU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:174:LEU:O	1:l:197:LEU:HA	2.18	0.44
1:l:529:ILE:HD12	1:l:529:ILE:C	2.43	0.44
1:l:794:LYS:O	1:l:798:MET:HG3	2.17	0.44
1:m:90:ILE:HD12	1:m:154:GLN:CG	2.47	0.44
1:m:633:LEU:HD23	1:m:634:VAL:N	2.33	0.44
1:A:36:ILE:O	1:A:36:ILE:HG13	2.17	0.44
1:B:573:LYS:HE3	1:C:522:PHE:CZ	2.52	0.44
1:C:777:LEU:HD11	1:D:783:LYS:CB	2.47	0.44
1:D:14:HIS:HB3	1:D:56:ARG:CB	2.45	0.44
1:D:220:ILE:C	1:D:222:THR:N	2.76	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:E:523:PHE:CD1	1:E:568:VAL:HG12	2.53	0.44
1:F:601:MET:HE3	1:F:606:PHE:HB3	1.99	0.44
1:F:766:ARG:O	1:F:770:LEU:HB2	2.16	0.44
1:G:535:ALA:HA	1:H:658:VAL:HG21	1.99	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:537:LEU:HD23	1:H:645:PRO:HA	1.99	0.44
1:H:766:ARG:HD2	1:I:768:MET:HE1	1.99	0.44
1:I:2:ALA:HB3	1:I:46:ALA:O	2.18	0.44
1:K:183:PHE:CE2	1:K:188:LYS:HA	2.53	0.44
1:K:649:ARG:NH2	1:L:655:GLN:HG2	2.33	0.44
1:L:283:VAL:HG22	1:L:301:VAL:HG12	2.00	0.44
1:M:23:SER:HB3	1:M:31:GLY:C	2.43	0.44
1:M:221:LEU:HD13	1:M:256:THR:CB	2.39	0.44
1:M:279:ARG:O	1:M:323:VAL:N	2.40	0.44
1:M:506:LYS:HD3	1:M:506:LYS:HA	1.86	0.44
1:M:803:GLY:CA	1:M:806:THR:HB	2.47	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:OE1	1:P:341:GLU:O	2.35	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:Q:242:LEU:H	1:Q:242:LEU:HD23	1.82	0.44
1:Q:408:LEU:H	1:Q:408:LEU:CD1	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:23:SER:HB3	1:W:31:GLY:C	2.43	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:220:ILE:C	1:X:222:THR:N	2.76	0.44
1:X:719:THR:HG22	1:Y:728:SER:HA	1.99	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:Z:459:SER:CB	1:Z:488:THR:HG22	2.37	0.44
1:a:759:LEU:HD21	1:b:765:VAL:HG22	2.00	0.44
1:b:363:LEU:HD13	1:b:364:GLU:H	1.82	0.44
1:b:382:LEU:H	1:b:405:THR:HG22	1.83	0.44
1:e:243:HIS:NE2	1:e:249:TRP:CE2	2.85	0.44
1:f:330:GLN:HG3	1:f:379:ALA:HB3	2.00	0.44
1:f:341:GLU:HG2	1:f:370:LYS:HD3	2.00	0.44
1:g:234:ASN:O	1:g:235:PHE:HB3	2.16	0.44
1:g:382:LEU:HD11	1:g:388:ILE:HD12	2.00	0.44
1:g:714:MET:HA	1:g:714:MET:HE3	1.99	0.44
1:g:805:GLY:HA2	1:g:808:ARG:HD2	1.99	0.44
1:h:318:ARG:O	1:h:319:GLY:C	2.61	0.44
1:h:551:ASN:HB3	1:h:554:ASP:CB	2.47	0.44
1:i:394:LYS:HA	1:j:329:GLN:HE21	1.76	0.44
1:j:135:ASP:OD1	1:j:136:LYS:N	2.50	0.44
1:j:177:ARG:H	1:j:212:VAL:CG2	2.30	0.44
1:j:338:GLN:CB	1:j:339:PRO:CD	2.91	0.44
1:j:529:ILE:HD12	1:j:529:ILE:C	2.43	0.44
1:j:704:LYS:HD2	1:k:712:MET:HB3	2.00	0.44
1:k:363:LEU:HD13	1:k:364:GLU:H	1.82	0.44
1:l:123:LEU:CG	1:l:143:TRP:HB2	2.47	0.44
1:l:394:LYS:HA	1:m:329:GLN:NE2	2.33	0.44
1:l:419:LEU:HD12	1:l:494:GLN:NE2	2.33	0.44
1:A:8:ILE:H	1:A:8:ILE:HG13	1.64	0.44
1:A:176:LEU:HA	1:A:210:GLU:O	2.18	0.44
1:B:251:VAL:CG2	1:B:254:GLN:NE2	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:252:THR:O	1:B:253:VAL:C	2.60	0.44
1:B:529:ILE:C	1:B:529:ILE:HD12	2.43	0.44
1:B:554:ASP:OD2	1:B:554:ASP:C	2.61	0.44
1:C:100:TYR:CB	1:C:101:PRO:CD	2.96	0.44
1:C:145:PHE:HE2	1:C:150:THR:HA	1.83	0.44
1:C:511:ARG:NH2	1:C:517:LEU:HD11	2.32	0.44
1:D:236:ARG:HB3	1:D:236:ARG:NH1	2.33	0.44
1:D:249:TRP:N	1:D:249:TRP:CD1	2.86	0.44
1:D:325:VAL:HG22	1:D:328:GLU:OE2	2.17	0.44
1:D:522:PHE:C	1:D:522:PHE:HD2	2.26	0.44
1:D:527:ILE:HD12	1:D:528:THR:N	2.32	0.44
1:E:467:ALA:HB2	1:E:518:LEU:HD21	1.99	0.44
1:E:539:LEU:HD22	1:E:643:VAL:HG22	1.98	0.44
1:H:36:ILE:HG21	1:H:99:LEU:CD1	2.46	0.44
1:H:266:GLU:H	1:H:266:GLU:HG3	1.60	0.44
1:I:20:ASP:HB2	1:I:49:ARG:HD3	1.99	0.44
1:I:273:ILE:HG13	1:I:308:PHE:HB3	2.00	0.44
1:I:399:ARG:HA	1:I:491:PRO:HG3	1.98	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:745:LYS:HG3	1:L:753:ILE:HD13	2.00	0.44
1:L:116:LEU:HB3	1:L:117:PRO:CD	2.47	0.44
1:L:120:ALA:HB2	1:L:164:GLN:NE2	2.32	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:340:LEU:HD23	1:L:353:ALA:H	1.82	0.44
1:L:517:LEU:O	1:L:545:TRP:CH2	2.66	0.44
1:M:183:PHE:HA	1:M:190:ARG:CB	2.47	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
1:N:338:GLN:HB2	1:N:339:PRO:CD	2.32	0.44
1:N:345:SER:C	1:N:347:GLU:H	2.26	0.44
1:N:640:VAL:O	1:N:640:VAL:HG13	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:252:THR:O	1:P:252:THR:OG1	2.23	0.44
1:P:402:ILE:HD12	1:P:402:ILE:C	2.43	0.44
1:P:425:GLU:CD	1:P:425:GLU:H	2.25	0.44
1:P:758:GLU:O	1:P:762:VAL:HG23	2.17	0.44
1:Q:13:TYR:N	1:Q:13:TYR:HD1	2.16	0.44
1:Q:688:LEU:HA	1:Q:691:GLN:CD	2.41	0.44
1:R:58:TYR:CD1	1:R:98:PRO:HA	2.52	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:S:11:PRO:CA	1:S:38:GLN:HA	2.38	0.44
1:S:338:GLN:CB	1:S:339:PRO:CD	2.90	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:522:PHE:CD2	1:Z:522:PHE:C	2.95	0.44
1:Z:703:ARG:CZ	1:Z:703:ARG:HB2	2.47	0.44
1:a:49:ARG:CZ	1:b:8:ILE:CD1	2.95	0.44
1:a:227:LEU:HD13	1:a:229:LEU:HD21	1.99	0.44
1:b:13:TYR:CD1	1:b:13:TYR:N	2.86	0.44
1:b:260:VAL:O	1:b:262:ASP:N	2.51	0.44
1:c:122:HIS:HB3	1:c:159:VAL:HB	2.00	0.44
1:c:395:THR:HB	1:c:397:LYS:H	1.83	0.44
1:c:399:ARG:HG2	1:c:399:ARG:NH1	2.32	0.44
1:c:755:THR:HG21	1:d:761:ARG:HG2	1.99	0.44
1:d:65:VAL:CG1	1:d:110:THR:HG22	2.48	0.44
1:d:273:ILE:CD1	1:d:308:PHE:HB3	2.48	0.44
1:d:327:SER:CB	1:d:331:GLY:HA3	2.47	0.44
1:d:452:ARG:NH1	1:d:454:LYS:HA	2.29	0.44
1:e:60:ILE:H	1:e:60:ILE:CD1	2.30	0.44
1:e:127:LEU:HB3	1:f:64:PRO:HD3	1.99	0.44
1:f:286:ASP:N	1:f:287:PRO:HD3	2.32	0.44
1:f:398:VAL:HG11	1:f:415:TRP:CE3	2.53	0.44
1:g:150:THR:HG23	1:g:151:TYR:N	2.33	0.44
1:h:327:SER:H	1:h:331:GLY:HA3	1.82	0.44
1:i:14:HIS:O	1:i:53:VAL:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:109:ILE:CD1	1:i:153:PRO:HB2	2.48	0.44
1:i:175:ARG:HA	1:i:196:TRP:O	2.18	0.44
1:k:808:ARG:NH1	1:l:806:THR:OG1	2.51	0.44
1:l:36:ILE:HD12	1:l:98:PRO:CB	2.30	0.44
1:l:288:MET:HE1	1:l:312:PRO:O	2.18	0.44
1:l:468:VAL:HG13	1:l:514:LEU:O	2.18	0.44
1:l:649:ARG:NH2	1:m:655:GLN:HG2	2.33	0.44
1:m:215:LEU:HB3	1:m:259:HIS:NE2	2.33	0.44
1:m:220:ILE:HD13	1:m:252:THR:HA	1.99	0.44
1:A:3:THR:HG22	1:A:50:MET:CE	2.48	0.44
1:B:14:HIS:CE1	1:B:99:LEU:HB2	2.53	0.44
1:B:398:VAL:H	1:C:384:GLN:CD	2.25	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:D:332:LEU:HG	1:D:360:ARG:HD3	2.00	0.44
1:D:658:VAL:HA	1:D:661:ALA:HB3	2.00	0.44
1:E:109:ILE:O	1:E:109:ILE:HG13	2.17	0.44
1:E:235:PHE:CE2	1:E:243:HIS:HB3	2.53	0.44
1:E:653:ALA:HA	1:E:656:ARG:NH2	2.33	0.44
1:F:124:LYS:HG2	1:F:157:VAL:O	2.18	0.44
1:F:330:GLN:CD	1:F:407:MET:HG3	2.42	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:H:5:GLU:HG2	1:H:43:VAL:HG21	2.00	0.44
1:H:63:ASN:N	1:H:64:PRO:HD2	2.32	0.44
1:I:288:MET:HE1	1:I:312:PRO:O	2.18	0.44
1:J:14:HIS:NE2	1:J:16:ILE:HD11	2.33	0.44
1:K:734:ARG:HH21	1:K:735:ILE:HD13	1.82	0.44
1:L:3:THR:CG2	1:L:50:MET:HE1	2.46	0.44
1:L:226:ALA:O	1:L:269:GLY:HA2	2.18	0.44
1:L:579:VAL:HG13	1:L:599:ILE:HD12	1.99	0.44
1:M:318:ARG:O	1:M:319:GLY:C	2.61	0.44
1:M:332:LEU:CD2	1:M:407:MET:HB2	2.39	0.44
1:M:340:LEU:HD23	1:M:352:GLN:HA	1.99	0.44
1:O:281:TYR:HB3	1:O:323:VAL:HG12	2.00	0.44
1:O:328:GLU:OE2	1:O:328:GLU:CA	2.63	0.44
1:Q:329:GLN:OE1	1:Q:330:GLN:HB2	2.18	0.44
1:R:24:ASN:ND2	1:R:30:VAL:HB	2.32	0.44
1:R:194:GLU:HG2	1:R:195:GLU:H	1.82	0.44
1:R:398:VAL:HB	1:S:384:GLN:HE22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:476:LYS:HE2	1:S:485:GLU:HG3	2.00	0.44
1:S:261:PRO:HD2	1:S:264:TYR:HD1	1.81	0.44
1:S:296:LEU:HD21	1:T:307:SER:HB3	2.00	0.44
1:S:354:GLY:HA3	1:T:328:GLU:CG	2.45	0.44
1:T:20:ASP:HB2	1:T:49:ARG:HD3	2.00	0.44
1:T:58:TYR:HD1	1:T:99:LEU:CD1	2.27	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:545:TRP:HB2	1:T:633:LEU:HD21	2.00	0.44
1:U:380:ILE:HA	1:U:381:PRO:HD3	1.92	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
1:X:83:LEU:CD1	1:X:86:ALA:HB3	2.47	0.44
1:X:277:GLY:HA2	1:X:304:GLY:C	2.43	0.44
1:X:677:ALA:HA	1:X:680:LEU:HD12	2.00	0.44
1:Y:1:MET:HE1	1:Y:47:PRO:HB3	1.97	0.44
1:Y:38:GLN:H	1:Y:38:GLN:HG2	1.57	0.44
1:a:177:ARG:H	1:a:212:VAL:CG2	2.31	0.44
1:a:185:ARG:HG3	1:a:206:PRO:CB	2.48	0.44
1:a:255:ASP:OD2	1:a:257:GLU:HB3	2.17	0.44
1:b:383:ASP:O	1:b:384:GLN:C	2.61	0.44
1:b:393:VAL:O	1:c:405:THR:HG21	2.17	0.44
1:c:284:ILE:CD1	1:c:300:ARG:HB3	2.47	0.44
1:d:58:TYR:CG	1:d:98:PRO:HA	2.53	0.44
1:d:268:LEU:HD13	1:d:269:GLY:N	2.29	0.44
1:d:399:ARG:HG2	1:d:399:ARG:NH1	2.33	0.44
1:d:679:ARG:HG3	1:e:691:GLN:HE22	1.83	0.44
1:e:64:PRO:HA	1:e:111:PRO:CD	2.47	0.44
1:e:766:ARG:O	1:e:770:LEU:HB2	2.18	0.44
1:f:213:LEU:CD1	1:f:214:ASP:H	2.31	0.44
1:f:481:VAL:O	1:f:481:VAL:HG13	2.18	0.44
1:g:7:ILE:O	1:g:41:GLU:HG2	2.18	0.44
1:g:273:ILE:HD11	1:g:308:PHE:CD2	2.51	0.44
1:h:281:TYR:CD2	1:h:366:VAL:HG13	2.51	0.44
1:i:551:ASN:HB3	1:i:554:ASP:HB2	2.00	0.44
1:j:10:ILE:HG23	1:j:11:PRO:HD2	2.00	0.44
1:j:796:LYS:CA	1:j:799:THR:HG22	2.48	0.44
1:k:388:ILE:HD13	1:k:390:VAL:HG13	2.00	0.44
1:l:389:TYR:CE2	1:l:457:VAL:HG22	2.53	0.44
1:l:469:GLN:HB3	1:l:496:THR:CG2	2.47	0.44
1:A:527:ILE:HD12	1:A:527:ILE:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD2	1:B:132:LYS:HA	1.72	0.43
1:B:335:LYS:HB3	1:B:372:GLU:O	2.18	0.43
1:B:337:LEU:HG	1:B:354:GLY:H	1.83	0.43
1:C:90:ILE:HD12	1:C:154:GLN:CB	2.47	0.43
1:C:601:MET:HE2	1:C:601:MET:HB3	1.89	0.43
1:D:311:GLN:O	1:D:314:GLU:HG3	2.18	0.43
1:D:470:VAL:HB	1:D:479:ARG:HG3	2.00	0.43
1:D:490:ASP:CG	1:D:491:PRO:HD2	2.43	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:368:SER:HB3	1:E:371:VAL:HG23	2.00	0.43
1:F:234:ASN:N	1:F:234:ASN:HD22	2.16	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:10:ILE:H	1:J:10:ILE:CD1	2.24	0.43
1:J:63:ASN:N	1:J:64:PRO:HD2	2.33	0.43
1:J:137:VAL:CG2	1:J:138:MET:N	2.81	0.43
1:J:327:SER:OG	1:J:331:GLY:HA3	2.18	0.43
1:J:385:ASN:HD22	1:J:385:ASN:HA	1.64	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:58:TYR:HD1	1:L:99:LEU:HD12	1.82	0.43
1:L:354:GLY:HA3	1:M:328:GLU:HG3	2.00	0.43
1:M:425:GLU:CD	1:M:425:GLU:H	2.25	0.43
1:M:760:GLU:HA	1:M:760:GLU:OE1	2.18	0.43
1:N:14:HIS:O	1:N:53:VAL:O	2.36	0.43
1:N:100:TYR:CB	1:N:101:PRO:CD	2.94	0.43
1:N:234:ASN:N	1:N:234:ASN:HD22	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:260:VAL:C	1:Q:262:ASP:N	2.76	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:S:291:ASP:C	1:S:293:LYS:H	2.26	0.43
1:S:398:VAL:HG11	1:S:415:TRP:CE3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:30:VAL:CG1	1:T:33:LYS:HB3	2.48	0.43
1:T:183:PHE:HA	1:T:190:ARG:HD3	2.01	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:U:589:ASP:HB2	1:V:665:THR:HG21	1.99	0.43
1:V:63:ASN:N	1:V:64:PRO:HD2	2.32	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:W:476:LYS:HG3	1:X:485:GLU:HG3	1.99	0.43
1:X:175:ARG:HG3	1:X:215:LEU:HD23	1.99	0.43
1:X:243:HIS:HE2	1:X:249:TRP:CD1	2.35	0.43
1:X:573:LYS:HD2	1:Y:542:ALA:HB2	2.00	0.43
1:X:813:ALA:C	1:X:815:PRO:HD3	2.43	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:Z:58:TYR:HD1	1:Z:99:LEU:CD1	2.27	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
1:a:183:PHE:HA	1:a:190:ARG:HD3	1.99	0.43
1:b:129:PHE:O	1:b:137:VAL:N	2.51	0.43
1:c:286:ASP:OD1	1:c:296:LEU:O	2.35	0.43
1:c:296:LEU:N	1:c:296:LEU:HD22	2.33	0.43
1:c:603:VAL:HG21	1:c:638:VAL:HG21	2.00	0.43
1:c:676:GLU:OE1	1:c:676:GLU:CA	2.66	0.43
1:d:224:LYS:O	1:d:272:PRO:HD3	2.18	0.43
1:d:336:ALA:HA	1:d:356:CYS:CB	2.48	0.43
1:d:465:ASN:HB3	1:d:519:GLY:HA3	1.99	0.43
1:d:573:LYS:HD3	1:e:641:GLN:OE1	2.18	0.43
1:e:13:TYR:HB3	1:e:54:PRO:O	2.18	0.43
1:e:15:TYR:O	1:e:34:THR:OG1	2.36	0.43
1:e:36:ILE:HD13	1:e:36:ILE:C	2.43	0.43
1:e:182:CYS:SG	1:e:208:VAL:CB	3.06	0.43
1:e:336:ALA:HA	1:e:356:CYS:HB2	1.99	0.43
1:e:416:GLU:HB2	1:e:454:LYS:HB3	2.00	0.43
1:e:503:GLY:HA3	1:e:507:ARG:HH12	1.82	0.43
1:f:30:VAL:HG22	1:f:74:LEU:CG	2.48	0.43
1:f:155:LYS:HB2	1:f:155:LYS:HZ2	1.83	0.43
1:f:270:VAL:O	1:f:270:VAL:HG13	2.18	0.43
1:f:591:PHE:O	1:f:595:SER:N	2.51	0.43
1:g:9:ARG:CZ	1:g:15:TYR:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:564:VAL:HG22	1:g:631:ASN:ND2	2.33	0.43
1:h:64:PRO:HA	1:h:111:PRO:HD2	1.99	0.43
1:i:249:TRP:N	1:i:249:TRP:CD1	2.86	0.43
1:i:551:ASN:HB3	1:i:554:ASP:HB3	2.00	0.43
1:j:209:PHE:CD2	1:j:209:PHE:N	2.86	0.43
1:j:331:GLY:O	1:j:360:ARG:HB2	2.18	0.43
1:j:567:PHE:HB2	1:j:633:LEU:HD12	2.00	0.43
1:k:244:ARG:O	1:k:247:GLU:HB2	2.18	0.43
1:k:296:LEU:N	1:k:296:LEU:HD22	2.33	0.43
1:k:358:LEU:HD13	1:k:377:ARG:NH1	2.33	0.43
1:l:182:CYS:SG	1:l:208:VAL:HB	2.58	0.43
1:l:279:ARG:O	1:l:322:ASP:HA	2.18	0.43
1:l:777:LEU:HD11	1:m:783:LYS:CB	2.48	0.43
1:m:116:LEU:HB3	1:m:117:PRO:HD3	1.90	0.43
1:m:326:LEU:HD23	1:m:326:LEU:HA	1.76	0.43
1:A:43:VAL:CG1	1:A:45:PHE:O	2.63	0.43
1:A:653:ALA:CB	1:B:662:ILE:CD1	2.67	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:E:151:TYR:HD2	1:E:152:ILE:HD13	1.83	0.43
1:F:17:HIS:CD2	1:F:18:VAL:HG22	2.53	0.43
1:F:63:ASN:N	1:F:64:PRO:HD2	2.34	0.43
1:F:296:LEU:H	1:F:296:LEU:HD13	1.84	0.43
1:F:794:LYS:O	1:F:798:MET:HG2	2.18	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:I:5:GLU:O	1:I:41:GLU:O	2.35	0.43
1:I:70:GLN:HB3	1:I:104:VAL:O	2.18	0.43
1:I:281:TYR:CD1	1:I:321:GLN:HB2	2.53	0.43
1:I:358:LEU:HD13	1:I:377:ARG:HH11	1.83	0.43
1:I:387:GLY:O	1:I:456:ARG:HG3	2.18	0.43
1:I:697:SER:CA	1:J:706:LEU:HD23	2.39	0.43
1:I:807:ILE:HD13	1:J:806:THR:CG2	2.48	0.43
1:K:108:ASP:OD1	1:K:108:ASP:N	2.50	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:708:GLU:HG3	1:L:716:VAL:HG11	2.00	0.43
1:L:34:THR:OG1	1:L:35:TYR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:287:PRO:O	1:L:295:GLN:HB2	2.17	0.43
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:M:296:LEU:HD13	1:M:296:LEU:H	1.83	0.43
1:M:419:LEU:HD23	1:M:421:SER:H	1.82	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:633:LEU:HD23	1:P:634:VAL:N	2.33	0.43
1:Q:288:MET:HE2	1:Q:288:MET:HB3	1.89	0.43
1:Q:291:ASP:C	1:Q:293:LYS:H	2.26	0.43
1:Q:398:VAL:N	1:R:384:GLN:OE1	2.51	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:R:417:LYS:O	1:R:418:GLU:HB2	2.18	0.43
1:T:406:TYR:OH	1:T:412:GLU:OE1	2.33	0.43
1:U:813:ALA:C	1:U:815:PRO:HD3	2.43	0.43
1:V:2:ALA:HB3	1:V:46:ALA:O	2.17	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:Z:252:THR:O	1:Z:253:VAL:C	2.61	0.43
1:a:144:LEU:H	1:a:144:LEU:HD12	1.83	0.43
1:a:175:ARG:HB2	1:a:213:LEU:O	2.17	0.43
1:a:176:LEU:HA	1:a:210:GLU:O	2.17	0.43
1:b:17:HIS:CD2	1:b:18:VAL:HG22	2.53	0.43
1:b:164:GLN:H	1:b:164:GLN:HG2	1.60	0.43
1:c:14:HIS:CB	1:c:56:ARG:CB	2.96	0.43
1:c:68:ASP:OD1	1:c:106:GLU:HA	2.18	0.43
1:c:452:ARG:NH2	1:c:458:VAL:HG22	2.33	0.43
1:d:227:LEU:HB2	1:d:251:VAL:CG1	2.47	0.43
1:e:472:ASP:CA	1:e:493:GLU:HB3	2.45	0.43
1:f:123:LEU:HD11	1:f:143:TRP:HB2	2.00	0.43
1:f:284:ILE:HG12	1:f:287:PRO:HB3	2.00	0.43
1:g:128:ASP:OD1	1:g:131:ASP:HB3	2.19	0.43
1:g:360:ARG:NE	1:g:407:MET:HG2	2.33	0.43
1:g:398:VAL:HG11	1:g:415:TRP:CD2	2.53	0.43
1:h:560:LYS:HD2	1:h:630:GLN:O	2.18	0.43
1:i:9:ARG:NH1	1:i:36:ILE:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:326:LEU:CD2	1:i:333:LEU:HG	2.46	0.43
1:i:393:VAL:HG23	1:i:411:ASP:O	2.18	0.43
1:j:415:TRP:CH2	1:j:417:LYS:HB3	2.53	0.43
1:j:573:LYS:HE3	1:k:522:PHE:CZ	2.53	0.43
1:k:174:LEU:CB	1:k:198:VAL:HB	2.47	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	2.01	0.43
1:l:146:GLU:HA	1:l:146:GLU:OE1	2.18	0.43
1:l:326:LEU:O	1:l:328:GLU:HG2	2.18	0.43
1:l:594:ASN:O	1:l:595:SER:C	2.60	0.43
1:l:770:LEU:CD2	1:m:776:GLN:HG3	2.48	0.43
1:m:115:VAL:N	1:m:118:ASN:HD22	2.11	0.43
1:m:174:LEU:CB	1:m:198:VAL:HB	2.48	0.43
1:m:260:VAL:C	1:m:262:ASP:H	2.25	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:691:GLN:NE2	1:m:679:ARG:HG3	2.32	0.43
1:A:766:ARG:HG3	1:B:772:TYR:CD1	2.54	0.43
1:B:490:ASP:O	1:B:491:PRO:C	2.60	0.43
1:C:9:ARG:CZ	1:C:15:TYR:HB3	2.48	0.43
1:C:60:ILE:H	1:C:60:ILE:CD1	2.19	0.43
1:C:472:ASP:CA	1:C:493:GLU:HB3	2.37	0.43
1:C:523:PHE:CD1	1:C:568:VAL:HG12	2.54	0.43
1:C:766:ARG:HD3	1:D:772:TYR:HB2	2.00	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:374:VAL:HG12	1:D:375:GLU:N	2.33	0.43
1:E:152:ILE:HD13	1:E:152:ILE:H	1.82	0.43
1:E:220:ILE:C	1:E:222:THR:N	2.74	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:196:TRP:HA	1:F:196:TRP:CE3	2.53	0.43
1:F:365:TYR:CE2	1:F:367:PRO:HA	2.53	0.43
1:F:481:VAL:O	1:F:481:VAL:HG13	2.18	0.43
1:F:507:ARG:HA	1:F:508:PRO:HD3	1.85	0.43
1:G:337:LEU:HD22	1:G:357:TRP:CZ3	2.52	0.43
1:G:472:ASP:HB3	1:G:477:ARG:HB2	2.00	0.43
1:H:220:ILE:C	1:H:222:THR:H	2.24	0.43
1:H:227:LEU:HB2	1:H:251:VAL:HG12	1.99	0.43
1:H:338:GLN:HB3	1:H:339:PRO:HD3	1.96	0.43
1:H:522:PHE:C	1:H:522:PHE:HD2	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:296:LEU:N	1:I:296:LEU:HD22	2.33	0.43
1:I:337:LEU:HD21	1:I:352:GLN:O	2.18	0.43
1:I:426:LEU:C	1:I:428:ASN:H	2.27	0.43
1:J:70:GLN:CB	1:J:104:VAL:H	2.21	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:L:175:ARG:HG3	1:L:215:LEU:HD23	2.00	0.43
1:L:395:THR:HB	1:L:397:LYS:HB3	1.98	0.43
1:M:10:ILE:HG23	1:M:11:PRO:HD2	1.99	0.43
1:M:164:GLN:NE2	1:M:204:TYR:HB3	2.33	0.43
1:M:327:SER:N	1:M:331:GLY:HA3	2.33	0.43
1:N:36:ILE:O	1:N:37:ARG:CG	2.65	0.43
1:N:180:LYS:HD2	1:N:208:VAL:HG12	1.98	0.43
1:N:184:ASP:HB3	1:N:187:GLY:O	2.18	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:N:589:ASP:HB2	1:O:665:THR:HG21	2.00	0.43
1:O:5:GLU:HB2	1:O:41:GLU:OE1	2.19	0.43
1:O:84:ARG:HG2	1:O:85:HIS:ND1	2.32	0.43
1:O:597:ARG:HG3	1:O:600:ARG:NH2	2.33	0.43
1:Q:527:ILE:H	1:Q:527:ILE:CD1	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:S:220:ILE:C	1:S:222:THR:H	2.25	0.43
1:T:17:HIS:CD2	1:T:18:VAL:HG22	2.54	0.43
1:T:65:VAL:HA	1:T:110:THR:HG22	2.00	0.43
1:T:649:ARG:NH2	1:U:655:GLN:HG2	2.24	0.43
1:U:68:ASP:OD1	1:U:68:ASP:C	2.62	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
1:U:697:SER:HA	1:V:706:LEU:HD23	1.99	0.43
1:V:5:GLU:OE1	1:V:43:VAL:HG11	2.18	0.43
1:V:8:ILE:HA	1:V:40:ASN:HD22	1.83	0.43
1:V:709:LEU:HD23	1:V:712:MET:CE	2.48	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:Y:601:MET:HE2	1:Y:601:MET:HB3	1.92	0.43
1:Z:311:GLN:HB2	1:Z:314:GLU:CG	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:185:ARG:HH22	1:a:207:ALA:HB3	1.84	0.43
1:a:399:ARG:HG2	1:a:399:ARG:HH11	1.83	0.43
1:b:69:THR:HA	1:b:106:GLU:HB3	2.00	0.43
1:b:586:VAL:HG13	1:b:590:ASP:OD2	2.19	0.43
1:b:796:LYS:HG2	1:b:800:GLU:OE2	2.18	0.43
1:c:472:ASP:HB3	1:c:477:ARG:HB2	2.01	0.43
1:c:597:ARG:NH1	1:c:597:ARG:HB3	2.33	0.43
1:c:660:LEU:HA	1:c:663:GLU:HB3	1.99	0.43
1:d:150:THR:HG23	1:d:151:TYR:N	2.33	0.43
1:e:285:LEU:CD1	1:e:315:ARG:HH11	2.31	0.43
1:f:85:HIS:NE2	1:f:102:GLY:HA3	2.33	0.43
1:f:294:ASN:HD21	1:f:313:GLY:HA3	1.84	0.43
1:f:328:GLU:CG	1:f:329:GLN:H	2.10	0.43
1:g:109:ILE:O	1:g:109:ILE:HG13	2.19	0.43
1:g:481:VAL:HG11	1:g:487:VAL:CG1	2.48	0.43
1:g:766:ARG:HD3	1:h:772:TYR:CG	2.54	0.43
1:h:229:LEU:O	1:h:249:TRP:CD1	2.71	0.43
1:h:334:LEU:C	1:h:335:LYS:HG3	2.43	0.43
1:h:387:GLY:HA3	1:h:402:ILE:HA	2.00	0.43
1:i:452:ARG:HG3	1:i:452:ARG:HH11	1.83	0.43
1:i:545:TRP:HB2	1:i:633:LEU:HD21	2.00	0.43
1:i:600:ARG:O	1:i:604:PHE:HD1	2.01	0.43
1:j:209:PHE:N	1:j:209:PHE:HD2	2.16	0.43
1:j:334:LEU:HD12	1:j:377:ARG:NH2	2.33	0.43
1:j:529:ILE:HD12	1:j:529:ILE:O	2.18	0.43
1:j:567:PHE:HD2	1:j:633:LEU:HD11	1.83	0.43
1:k:3:THR:HG22	1:k:50:MET:HE1	1.99	0.43
1:k:505:PRO:HG2	1:k:507:ARG:HH12	1.82	0.43
1:l:172:GLN:HG2	1:l:216:VAL:HG12	1.99	0.43
1:l:419:LEU:CD2	1:l:422:GLY:H	2.31	0.43
1:l:426:LEU:C	1:l:428:ASN:N	2.77	0.43
1:m:89:GLU:C	1:m:90:ILE:HD13	2.41	0.43
1:m:129:PHE:O	1:m:130:GLU:HG2	2.19	0.43
1:m:177:ARG:H	1:m:212:VAL:CG2	2.32	0.43
1:m:327:SER:CA	1:m:331:GLY:HA3	2.49	0.43
1:m:529:ILE:HD12	1:m:529:ILE:O	2.17	0.43
1:m:601:MET:HE2	1:m:601:MET:HB3	1.79	0.43
1:A:8:ILE:HG22	1:A:40:ASN:ND2	2.34	0.43
1:A:226:ALA:HB2	1:A:252:THR:HB	2.00	0.43
1:B:387:GLY:HA3	1:B:402:ILE:HG22	2.00	0.43
1:B:575:ILE:HG23	1:B:603:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:768:MET:HE3	1:B:768:MET:HB3	1.81	0.43
1:C:206:PRO:HB2	1:C:209:PHE:CD2	2.54	0.43
1:C:398:VAL:N	1:D:384:GLN:OE1	2.50	0.43
1:F:74:LEU:HD22	1:F:100:TYR:HE2	1.82	0.43
1:G:591:PHE:O	1:G:595:SER:N	2.50	0.43
1:H:137:VAL:HG23	1:H:138:MET:N	2.33	0.43
1:H:310:LEU:H	1:H:310:LEU:HD12	1.83	0.43
1:I:135:ASP:C	1:I:136:LYS:HG3	2.44	0.43
1:I:144:LEU:CD2	1:I:204:TYR:CE2	3.00	0.43
1:I:419:LEU:CD1	1:I:494:GLN:HE21	2.31	0.43
1:I:714:MET:HE2	1:I:718:SER:OG	2.17	0.43
1:J:235:PHE:CE1	1:J:264:TYR:CE1	3.07	0.43
1:K:249:TRP:CD1	1:K:249:TRP:H	2.35	0.43
1:K:328:GLU:O	1:K:361:GLY:C	2.61	0.43
1:L:165:ALA:HB1	1:L:174:LEU:HD11	1.98	0.43
1:L:354:GLY:O	1:L:356:CYS:N	2.51	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:M:326:LEU:HD23	1:M:326:LEU:HA	1.71	0.43
1:M:382:LEU:N	1:M:405:THR:HG22	2.33	0.43
1:N:9:ARG:CZ	1:N:15:TYR:HB3	2.48	0.43
1:N:124:LYS:HE3	1:N:157:VAL:HB	1.99	0.43
1:N:530:GLU:OE1	1:O:592:HIS:HE1	2.01	0.43
1:O:77:ILE:HG13	1:O:79:GLY:H	1.83	0.43
1:O:227:LEU:O	1:O:250:LEU:HA	2.19	0.43
1:O:276:LEU:O	1:O:277:GLY:C	2.62	0.43
1:O:311:GLN:HB3	1:O:312:PRO:CD	2.45	0.43
1:P:154:GLN:CG	1:P:155:LYS:N	2.81	0.43
1:P:284:ILE:N	1:P:284:ILE:CD1	2.78	0.43
1:Q:154:GLN:HG3	1:Q:155:LYS:NZ	2.33	0.43
1:R:368:SER:O	1:R:369:ALA:C	2.61	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:57:HIS:O	1:T:99:LEU:HD11	2.19	0.43
1:T:67:ARG:HG2	1:T:108:ASP:HB3	1.99	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:796:LYS:C	1:X:799:THR:HG22	2.43	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:183:PHE:HD2	1:a:184:ASP:H	1.66	0.43
1:a:224:LYS:HA	1:a:272:PRO:CG	2.47	0.43
1:a:235:PHE:CZ	1:a:264:TYR:CE1	3.05	0.43
1:b:327:SER:HB2	1:b:331:GLY:HA2	1.90	0.43
1:b:340:LEU:HG	1:b:353:ALA:H	1.83	0.43
1:b:518:LEU:HA	1:b:547:PHE:HD1	1.83	0.43
1:c:245:THR:OG1	1:d:170:GLN:OE1	2.32	0.43
1:c:262:ASP:HB3	1:c:264:TYR:HE1	1.79	0.43
1:c:452:ARG:HH12	1:c:454:LYS:HA	1.84	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	1.84	0.43
1:d:36:ILE:HG21	1:d:99:LEU:CD1	2.48	0.43
1:d:414:LEU:HB3	1:d:455:THR:HG21	2.00	0.43
1:e:204:TYR:O	1:e:206:PRO:HD3	2.19	0.43
1:f:3:THR:HG22	1:f:50:MET:HE2	1.99	0.43
1:f:469:GLN:HB3	1:f:496:THR:HG21	1.99	0.43
1:g:5:GLU:OE1	1:g:43:VAL:HG11	2.18	0.43
1:g:154:GLN:HG2	1:g:155:LYS:HE3	2.00	0.43
1:g:177:ARG:HD3	1:g:195:GLU:OE2	2.19	0.43
1:g:311:GLN:HB3	1:g:312:PRO:CD	2.47	0.43
1:h:132:LYS:HA	1:h:132:LYS:HD2	1.81	0.43
1:h:169:LYS:HB2	1:h:170:GLN:H	1.58	0.43
1:h:283:VAL:HB	1:h:317:GLU:HB3	2.00	0.43
1:i:16:ILE:CD1	1:i:34:THR:HG21	2.48	0.43
1:j:228:HIS:O	1:j:267:VAL:HG23	2.19	0.43
1:j:326:LEU:HD13	1:j:360:ARG:HA	2.00	0.43
1:k:62:ALA:O	1:k:93:ALA:HB2	2.19	0.43
1:k:109:ILE:HD12	1:k:153:PRO:HG2	2.01	0.43
1:k:180:LYS:O	1:k:182:CYS:N	2.51	0.43
1:k:332:LEU:HG	1:k:360:ARG:HD3	2.00	0.43
1:k:338:GLN:HB2	1:k:339:PRO:HD3	1.95	0.43
1:l:697:SER:HA	1:m:706:LEU:HD23	2.00	0.43
1:m:130:GLU:O	1:m:130:GLU:HG3	2.18	0.43
1:A:177:ARG:HB2	1:A:177:ARG:NH1	2.34	0.43
1:A:340:LEU:HG	1:A:353:ALA:CB	2.47	0.43
1:A:472:ASP:CA	1:A:493:GLU:HB3	2.45	0.43
1:A:474:ARG:HB3	1:A:492:GLU:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:176:LEU:HD23	1:D:211:GLU:HA	2.00	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:334:LEU:O	1:D:374:VAL:HB	2.18	0.43
1:D:337:LEU:HD22	1:D:357:TRP:CZ3	2.53	0.43
1:D:339:PRO:HD2	1:D:370:LYS:HB3	1.99	0.43
1:E:311:GLN:N	1:E:314:GLU:HG3	2.33	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:456:ARG:O	1:E:457:VAL:C	2.60	0.43
1:E:599:ILE:O	1:E:603:VAL:HG23	2.19	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:F:532:ALA:HB1	1:G:593:LYS:HE2	2.01	0.43
1:G:3:THR:HG23	1:G:50:MET:HE1	2.00	0.43
1:G:215:LEU:HD12	1:G:259:HIS:CE1	2.53	0.43
1:G:508:PRO:O	1:G:509:HIS:HD2	2.01	0.43
1:H:100:TYR:HD2	1:H:101:PRO:HD3	1.84	0.43
1:H:591:PHE:O	1:H:595:SER:N	2.51	0.43
1:H:704:LYS:CD	1:I:712:MET:HB3	2.47	0.43
1:H:802:LEU:HD12	1:H:806:THR:HG22	2.01	0.43
1:I:597:ARG:O	1:I:601:MET:HB2	2.19	0.43
1:J:8:ILE:HA	1:J:40:ASN:HD22	1.82	0.43
1:J:60:ILE:HG22	1:J:66:SER:HA	2.00	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:747:LYS:HD3	1:J:747:LYS:HA	1.73	0.43
1:K:291:ASP:O	1:K:293:LYS:N	2.52	0.43
1:L:65:VAL:HA	1:L:110:THR:CB	2.49	0.43
1:L:334:LEU:HD23	1:L:357:TRP:O	2.18	0.43
1:L:522:PHE:C	1:L:522:PHE:CD2	2.96	0.43
1:N:60:ILE:HD13	1:N:93:ALA:CA	2.39	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:697:SER:CA	1:O:706:LEU:HD23	2.46	0.43
1:O:221:LEU:HD12	1:O:253:VAL:HG13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:701:LYS:HG3	1:P:709:LEU:HD13	2.00	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:768:MET:C	1:P:770:LEU:H	2.26	0.43
1:Q:87:ASP:CG	1:Q:88:GLN:N	2.75	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:3:THR:H	1:S:50:MET:HE1	1.82	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:298:GLN:HG3	1:V:305:GLU:CD	2.43	0.43
1:U:402:ILE:HD12	1:U:402:ILE:O	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:V:522:PHE:C	1:V:522:PHE:HD2	2.26	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:36:ILE:HG21	1:Y:99:LEU:CD1	2.45	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:382:LEU:HD22	1:Y:387:GLY:HA2	1.99	0.43
1:Z:18:VAL:HG21	1:Z:33:LYS:HE3	2.00	0.43
1:Z:243:HIS:NE2	1:Z:249:TRP:CE2	2.87	0.43
1:Z:398:VAL:HG11	1:Z:415:TRP:CD2	2.53	0.43
1:a:283:VAL:HB	1:a:317:GLU:HB3	2.00	0.43
1:a:311:GLN:CB	1:a:312:PRO:HD2	2.38	0.43
1:a:470:VAL:HB	1:a:479:ARG:HD2	2.01	0.43
1:b:175:ARG:HG3	1:b:215:LEU:HD23	2.01	0.43
1:b:221:LEU:CD2	1:b:256:THR:CB	2.85	0.43
1:b:276:LEU:HD13	1:b:278:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:382:LEU:HB2	1:b:404:SER:O	2.18	0.43
1:b:705:GLU:O	1:b:709:LEU:HG	2.18	0.43
1:b:768:MET:HE3	1:b:768:MET:HB3	1.88	0.43
1:c:191:VAL:HG13	1:c:192:THR:N	2.33	0.43
1:c:490:ASP:N	1:c:493:GLU:HG2	2.32	0.43
1:c:502:ALA:HB2	1:c:511:ARG:HB3	2.00	0.43
1:d:115:VAL:N	1:d:118:ASN:ND2	2.63	0.43
1:d:215:LEU:HD12	1:d:259:HIS:NE2	2.34	0.43
1:d:354:GLY:O	1:d:356:CYS:N	2.52	0.43
1:f:67:ARG:CD	1:f:108:ASP:HB3	2.49	0.43
1:f:109:ILE:O	1:f:109:ILE:HG13	2.18	0.43
1:g:676:GLU:O	1:g:678:GLN:N	2.51	0.43
1:h:256:THR:HG23	1:h:256:THR:O	2.19	0.43
1:h:262:ASP:HB3	1:h:264:TYR:OH	2.18	0.43
1:i:124:LYS:HG2	1:i:157:VAL:O	2.18	0.43
1:i:146:GLU:HA	1:i:146:GLU:OE1	2.18	0.43
1:j:328:GLU:OE1	1:j:362:PRO:CA	2.52	0.43
1:k:221:LEU:HA	1:k:253:VAL:HG13	2.00	0.43
1:k:389:TYR:CZ	1:k:457:VAL:HA	2.54	0.43
1:k:794:LYS:O	1:k:798:MET:HG2	2.18	0.43
1:l:343:GLY:HA2	1:l:348:LYS:C	2.44	0.43
1:m:17:HIS:CD2	1:m:18:VAL:HG22	2.52	0.43
1:m:100:TYR:CB	1:m:101:PRO:CD	2.97	0.43
1:m:185:ARG:HG3	1:m:206:PRO:HB2	2.00	0.43
1:m:279:ARG:HG3	1:m:280:HIS:HD2	1.82	0.43
1:A:122:HIS:HB3	1:A:160:VAL:H	1.84	0.43
1:A:360:ARG:CD	1:A:407:MET:HG2	2.48	0.43
1:A:606:PHE:HB2	1:A:622:ALA:HA	1.99	0.43
1:B:30:VAL:HG22	1:B:74:LEU:HG	1.99	0.43
1:B:249:TRP:CD1	1:B:249:TRP:H	2.36	0.43
1:C:591:PHE:O	1:C:595:SER:N	2.51	0.43
1:D:11:PRO:HB2	1:D:12:PRO:HD3	2.01	0.43
1:E:14:HIS:ND1	1:E:36:ILE:HG22	2.34	0.43
1:E:144:LEU:HD23	1:E:204:TYR:OH	2.19	0.43
1:E:154:GLN:CG	1:E:155:LYS:N	2.80	0.43
1:E:421:SER:O	1:E:422:GLY:C	2.60	0.43
1:E:540:GLN:O	1:E:641:GLN:HG2	2.19	0.43
1:G:239:ARG:HH21	1:G:257:GLU:CG	2.17	0.43
1:G:539:LEU:HD22	1:G:643:VAL:HG22	2.00	0.43
1:G:745:LYS:O	1:G:748:ALA:HB3	2.19	0.43
1:H:128:ASP:OD1	1:H:131:ASP:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:252:THR:O	1:H:253:VAL:C	2.61	0.43
1:H:383:ASP:O	1:H:385:ASN:N	2.52	0.43
1:I:1:MET:HE1	1:I:47:PRO:HB3	1.94	0.43
1:I:330:GLN:HG3	1:I:379:ALA:HB2	1.86	0.43
1:J:25:VAL:O	1:J:26:SER:HB2	2.18	0.43
1:J:232:LEU:HD23	1:J:232:LEU:HA	1.82	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:K:165:ALA:HB2	1:K:211:GLU:OE2	2.18	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:L:120:ALA:HB2	1:L:164:GLN:HE22	1.83	0.43
1:L:184:ASP:C	1:L:186:GLU:H	2.26	0.43
1:M:36:ILE:HG21	1:M:99:LEU:CD1	2.45	0.43
1:M:169:LYS:HB2	1:M:170:GLN:H	1.57	0.43
1:M:224:LYS:O	1:M:272:PRO:HD3	2.19	0.43
1:M:234:ASN:HA	1:M:243:HIS:O	2.18	0.43
1:M:286:ASP:OD1	1:M:296:LEU:O	2.37	0.43
1:N:5:GLU:HG2	1:N:43:VAL:HG21	2.00	0.43
1:N:328:GLU:O	1:N:329:GLN:C	2.61	0.43
1:N:580:ARG:HH22	1:O:595:SER:HB2	1.84	0.43
1:O:30:VAL:HG22	1:O:74:LEU:CD1	2.49	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
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:CD1	1:R:13:TYR:N	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:16:ILE:HB	1:T:51:VAL:HB	1.99	0.43
1:T:252:THR:O	1:T:253:VAL:C	2.61	0.43
1:T:507:ARG:HA	1:T:508:PRO:HD3	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:235:PHE:CE2	1:V:243:HIS:HB3	2.53	0.43
1:W:90:ILE:O	1:W:90:ILE:HD12	2.18	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:X:342:GLU:HB2	1:X:350:SER:CB	2.48	0.43
1:X:497:VAL:HG12	1:X:498:LEU:N	2.32	0.43
1:Y:20:ASP:HB2	1:Y:49:ARG:HD3	2.01	0.43
1:Y:130:GLU:O	1:Y:130:GLU:CG	2.66	0.43
1:Y:221:LEU:HD13	1:Y:255:ASP:O	2.18	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:8:ILE:HG22	1:a:40:ASN:HD21	1.84	0.43
1:a:181:GLU:O	1:a:181:GLU:HG3	2.18	0.43
1:a:294:ASN:CG	1:a:313:GLY:HA3	2.44	0.43
1:a:382:LEU:H	1:a:405:THR:HA	1.83	0.43
1:a:663:GLU:O	1:a:666:THR:HG22	2.19	0.43
1:b:3:THR:HG22	1:b:50:MET:HE1	1.99	0.43
1:b:568:VAL:HG23	1:b:569:GLY:H	1.83	0.43
1:b:580:ARG:HH22	1:c:595:SER:CB	2.30	0.43
1:c:6:ALA:HA	1:c:41:GLU:O	2.18	0.43
1:c:100:TYR:HB3	1:c:101:PRO:CD	2.49	0.43
1:c:152:ILE:HD11	1:c:156:GLU:OE2	2.18	0.43
1:c:154:GLN:HG3	1:c:155:LYS:NZ	2.33	0.43
1:c:197:LEU:HD22	1:c:197:LEU:HA	1.85	0.43
1:c:298:GLN:HE21	1:d:305:GLU:CD	2.26	0.43
1:c:452:ARG:HH22	1:c:458:VAL:HG22	1.83	0.43
1:c:516:LEU:HD21	1:c:567:PHE:CE1	2.53	0.43
1:e:554:ASP:HA	1:e:555:PRO:HD3	1.87	0.43
1:e:564:VAL:HG21	1:e:631:ASN:ND2	2.33	0.43
1:f:43:VAL:CG1	1:f:45:PHE:O	2.66	0.43
1:f:354:GLY:O	1:f:356:CYS:N	2.51	0.43
1:g:332:LEU:HD13	1:g:377:ARG:HG2	2.00	0.43
1:g:383:ASP:O	1:g:384:GLN:C	2.62	0.43
1:h:135:ASP:C	1:h:136:LYS:HG3	2.44	0.43
1:h:327:SER:HB2	1:h:331:GLY:HA2	1.92	0.43
1:h:383:ASP:C	1:h:385:ASN:H	2.26	0.43
1:h:506:LYS:HE2	1:h:524:THR:O	2.18	0.43
1:h:564:VAL:CG2	1:h:631:ASN:HD22	2.32	0.43
1:i:9:ARG:CZ	1:i:15:TYR:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:70:GLN:CB	1:j:104:VAL:HG12	2.48	0.43
1:k:227:LEU:O	1:k:250:LEU:HA	2.18	0.43
1:k:564:VAL:HG21	1:k:631:ASN:ND2	2.32	0.43
1:l:368:SER:HB3	1:l:371:VAL:HG23	2.00	0.43
1:m:61:VAL:HG22	1:m:61:VAL:O	2.18	0.43
1:m:452:ARG:HG3	1:m:452:ARG:NH1	2.32	0.43
1:m:465:ASN:HB3	1:m:519:GLY:HA3	2.01	0.43
1:A:18:VAL:O	1:A:32:PRO:HB3	2.18	0.43
1:A:768:MET:HE1	1:m:766:ARG:HD2	2.01	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:549:LEU:HD12	1:B:552:ARG:HA	2.00	0.43
1:B:627:VAL:HG13	1:B:634:VAL:HG22	2.01	0.43
1:D:225:THR:C	1:D:309:PHE:CZ	2.97	0.43
1:D:284:ILE:HD13	1:D:300:ARG:O	2.19	0.43
1:E:700:GLU:OE1	1:E:703:ARG:NH1	2.51	0.43
1:F:335:LYS:NZ	1:F:335:LYS:CB	2.81	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:16:ILE:HA	1:H:34:THR:OG1	2.17	0.43
1:H:60:ILE:HD13	1:H:93:ALA:O	2.18	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:334:LEU:HD12	1:H:377:ARG:NH2	2.34	0.43
1:H:345:SER:C	1:H:347:GLU:H	2.25	0.43
1:H:377:ARG:NH1	1:H:408:LEU:O	2.50	0.43
1:I:594:ASN:O	1:I:595:SER:C	2.61	0.43
1:I:807:ILE:HD12	1:I:808:ARG:H	1.83	0.43
1:J:180:LYS:HD2	1:J:208:VAL:HG12	2.01	0.43
1:J:390:VAL:HG12	1:J:408:LEU:HD23	2.00	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:L:14:HIS:ND1	1:L:99:LEU:HD22	2.34	0.43
1:L:58:TYR:CD1	1:L:98:PRO:HA	2.54	0.43
1:L:100:TYR:H	1:L:103:GLU:CD	2.25	0.43
1:L:138:MET:HE3	1:L:139:ALA:HB2	2.00	0.43
1:L:227:LEU:CD1	1:L:229:LEU:HD21	2.45	0.43
1:L:549:LEU:HD22	1:L:549:LEU:HA	1.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:734:ARG:NH2	1:N:735:ILE:CD1	2.82	0.43
1:O:594:ASN:O	1:O:595:SER:C	2.62	0.43
1:P:623:ARG:CG	1:P:624:ASP:N	2.76	0.43
1:Q:58:TYR:HD1	1:Q:99:LEU:CD1	2.32	0.43
1:Q:109:ILE:O	1:Q:109:ILE:HG13	2.19	0.43
1:Q:115:VAL:H	1:Q:118:ASN:ND2	2.17	0.43
1:R:69:THR:O	1:R:88:GLN:HG3	2.18	0.43
1:R:181:GLU:HA	1:R:181:GLU:OE1	2.19	0.43
1:R:725:GLU:O	1:R:728:SER:HB3	2.18	0.43
1:S:60:ILE:HG12	1:S:92:LEU:O	2.18	0.43
1:S:67:ARG:NH2	1:S:107:LYS:HA	2.29	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:57:HIS:O	1:Y:99:LEU:HD11	2.19	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:Z:185:ARG:HH21	1:Z:208:VAL:HG22	1.83	0.43
1:Z:709:LEU:HA	1:Z:712:MET:HE3	2.01	0.43
1:a:68:ASP:OD1	1:a:106:GLU:HA	2.18	0.43
1:a:382:LEU:N	1:a:405:THR:HG22	2.34	0.43
1:a:536:ARG:CZ	1:a:536:ARG:HB3	2.49	0.43
1:b:61:VAL:HG13	1:b:65:VAL:HB	2.00	0.43
1:b:69:THR:HA	1:b:106:GLU:CB	2.49	0.43
1:b:335:LYS:HB2	1:b:335:LYS:NZ	2.26	0.43
1:d:109:ILE:O	1:d:109:ILE:HG13	2.18	0.43
1:d:171:ASN:O	1:d:172:GLN:HG3	2.17	0.43
1:e:38:GLN:H	1:e:38:GLN:HG2	1.63	0.43
1:f:294:ASN:ND2	1:f:313:GLY:CA	2.80	0.43
1:f:414:LEU:HD23	1:f:455:THR:CB	2.48	0.43
1:f:714:MET:HE3	1:f:714:MET:HA	2.01	0.43
1:h:279:ARG:HG3	1:h:280:HIS:CD2	2.54	0.43
1:h:335:LYS:CD	1:h:359:ILE:HD11	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:527:ILE:HD11	1:h:539:LEU:CG	2.48	0.43
1:h:579:VAL:HG22	1:h:599:ILE:HD12	2.01	0.43
1:h:664:ILE:HD12	1:i:673:ALA:HB2	1.99	0.43
1:j:58:TYR:CD1	1:j:98:PRO:HA	2.54	0.43
1:j:113:GLN:O	1:j:114:VAL:HG13	2.19	0.43
1:j:175:ARG:HG3	1:j:215:LEU:HD23	2.00	0.43
1:k:567:PHE:HD2	1:k:633:LEU:HD12	1.84	0.43
1:k:723:LYS:HG2	1:k:727:GLU:OE2	2.19	0.43
1:l:177:ARG:H	1:l:212:VAL:HG23	1.84	0.43
1:l:184:ASP:O	1:l:187:GLY:O	2.37	0.43
1:l:194:GLU:HG2	1:l:195:GLU:N	2.32	0.43
1:l:471:TYR:CD1	1:l:478:ALA:HB2	2.54	0.43
1:l:501:SER:HB3	1:l:507:ARG:O	2.18	0.43
1:l:540:GLN:HB3	1:l:641:GLN:HE21	1.84	0.43
1:l:601:MET:HE2	1:l:601:MET:HB3	1.97	0.43
1:A:14:HIS:CE1	1:A:99:LEU:HB2	2.54	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:A:717:GLU:O	1:A:721:ASN:HB2	2.19	0.43
1:B:232:LEU:O	1:B:233:GLN:HG3	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:HD23	1:D:759:LEU:HA	1.86	0.43
1:E:11:PRO:HB2	1:E:12:PRO:HD3	2.01	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:E:342:GLU:HA	1:E:350:SER:HA	2.00	0.43
1:E:523:PHE:CD1	1:E:545:TRP:NE1	2.87	0.43
1:G:256:THR:O	1:G:256:THR:HG23	2.19	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:17:HIS:CD2	1:I:18:VAL:HG22	2.53	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:535:ALA:HA	1:J:658:VAL:HG21	2.01	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:261:PRO:HD2	1:J:264:TYR:HD1	1.83	0.43
1:J:311:GLN:H	1:J:314:GLU:HG3	1.82	0.43
1:J:518:LEU:HA	1:J:547:PHE:HD1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:117:PRO:O	1:L:118:ASN:C	2.62	0.43
1:L:169:LYS:HB3	1:L:201:VAL:HG11	2.00	0.43
1:L:676:GLU:OE1	1:L:676:GLU:HA	2.19	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:311:GLN:N	1:M:314:GLU:HG3	2.33	0.43
1:M:459:SER:HB3	1:M:488:THR:CG2	2.28	0.43
1:N:682:GLN:NE2	1:O:695:ASP:OD2	2.36	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:P:30:VAL:HG22	1:P:74:LEU:HD11	2.00	0.43
1:P:335:LYS:HG2	1:P:373:VAL:HG13	1.99	0.43
1:S:334:LEU:C	1:S:335:LYS:HG3	2.43	0.43
1:T:67:ARG:HG2	1:T:108:ASP:HA	2.01	0.43
1:T:326:LEU:HD23	1:T:326:LEU:HA	1.83	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:328:GLU:O	1:V:361:GLY:C	2.62	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:C	1:X:601:MET:N	2.76	0.43
1:X:599:ILE:O	1:X:601:MET:N	2.52	0.43
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:CD1	1:Y:168:ILE:N	2.82	0.43
1:a:10:ILE:HD13	1:a:13:TYR:CD2	2.54	0.43
1:a:327:SER:H	1:a:331:GLY:HA3	1.82	0.43
1:b:382:LEU:HD22	1:b:387:GLY:HA2	2.01	0.43
1:b:419:LEU:CG	1:b:420:PRO:HD2	2.37	0.43
1:b:523:PHE:CD1	1:b:568:VAL:HG12	2.51	0.43
1:b:601:MET:HE2	1:b:601:MET:HB3	1.74	0.43
1:c:90:ILE:CG2	1:c:154:GLN:HB2	2.49	0.43
1:c:414:LEU:HD23	1:c:455:THR:CB	2.49	0.43
1:c:426:LEU:HD21	1:c:495:PHE:CE1	2.54	0.43
1:d:600:ARG:NH1	1:d:622:ALA:HB3	2.34	0.43
1:e:334:LEU:C	1:e:335:LYS:HG3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:235:PHE:CE1	1:f:264:TYR:CE1	3.07	0.43
1:f:777:LEU:HD11	1:g:783:LYS:CB	2.47	0.43
1:g:279:ARG:HG3	1:g:280:HIS:HD2	1.84	0.43
1:g:400:ALA:HB2	1:g:491:PRO:HD3	2.00	0.43
1:g:745:LYS:O	1:g:748:ALA:HB3	2.18	0.43
1:h:175:ARG:HA	1:h:196:TRP:O	2.18	0.43
1:h:654:LEU:HD13	1:i:662:ILE:HD13	2.00	0.43
1:i:407:MET:SD	1:i:407:MET:N	2.86	0.43
1:j:416:GLU:OE1	1:j:454:LYS:HD3	2.18	0.43
1:j:594:ASN:O	1:j:595:SER:C	2.61	0.43
1:k:282:CYS:SG	1:k:302:VAL:HG23	2.59	0.43
1:k:325:VAL:O	1:k:325:VAL:HG13	2.19	0.43
1:k:796:LYS:HA	1:k:799:THR:HG22	2.00	0.43
1:l:90:ILE:HG12	1:l:154:GLN:HB2	2.01	0.43
1:l:249:TRP:N	1:l:249:TRP:CD1	2.86	0.43
1:m:73:VAL:N	1:m:84:ARG:HG3	2.33	0.43
1:A:42:ARG:HE	1:A:42:ARG:HB3	1.68	0.43
1:A:542:ALA:HB3	1:A:639:ASP:HB2	2.01	0.43
1:A:560:LYS:HD2	1:A:630:GLN:O	2.19	0.43
1:A:587:THR:HG23	1:A:590:ASP:HB3	2.00	0.43
1:A:712:MET:O	1:A:716:VAL:HG23	2.18	0.43
1:A:806:THR:CG2	1:m:807:ILE:HD13	2.46	0.43
1:B:533:ASP:OD1	1:B:533:ASP:N	2.52	0.43
1:C:46:ALA:H	1:C:47:PRO:HD3	1.84	0.43
1:C:260:VAL:C	1:C:262:ASP:N	2.76	0.43
1:C:807:ILE:H	1:C:807:ILE:HG13	1.55	0.43
1:D:68:ASP:HB3	1:D:90:ILE:HG22	2.00	0.43
1:D:273:ILE:HD13	1:D:310:LEU:HD21	1.99	0.43
1:D:327:SER:N	1:D:331:GLY:HA3	2.33	0.43
1:F:3:THR:HG22	1:F:50:MET:HE1	2.00	0.43
1:F:252:THR:OG1	1:F:253:VAL:N	2.52	0.43
1:G:398:VAL:HG11	1:G:415:TRP:CE3	2.54	0.43
1:G:578:ARG:HB3	1:G:602:ALA:O	2.19	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: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:328:GLU:HA	1:I:361:GLY:O	2.19	0.43
1:I:365:TYR:CE2	1:I:367:PRO:HA	2.54	0.43
1:J:280:HIS:O	1:J:303:LYS:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:340:LEU:HD11	1:M:363:LEU:CD1	2.48	0.43
1:L:701:LYS:HG3	1:M:709:LEU:HD13	2.01	0.43
1:M:503:GLY:HA3	1:M:507:ARG:HH11	1.83	0.43
1:M:688:LEU:HD23	1:M:688:LEU:C	2.44	0.43
1:M:796:LYS:HA	1:M:799:THR:HG22	2.00	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:234:ASN:O	1:Q:235:PHE:HB3	2.18	0.43
1:Q:332:LEU:CD2	1:Q:358:LEU:HD11	2.47	0.43
1:Q:682:GLN:NE2	1:R:695:ASP:OD2	2.45	0.43
1:R:64:PRO:HA	1:R:111:PRO:HD2	2.00	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:273:ILE:CD1	1:R:310:LEU:HG	2.48	0.43
1:R:328:GLU:O	1:R:361:GLY:C	2.61	0.43
1:S:417:LYS:O	1:S:418:GLU:HB2	2.18	0.43
1:T:11:PRO:CA	1:T:38:GLN:HA	2.43	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:U:572:CYS:O	1:U:573:LYS:C	2.62	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:92:LEU:HB2	1:Y:94:GLN:HG2	2.00	0.43
1:Y:164:GLN:OE1	1:Y:205:LEU:HG	2.18	0.43
1:Z:164:GLN:CD	1:Z:204:TYR:HB3	2.44	0.43
1:Z:327:SER:HB2	1:Z:330:GLN:C	2.44	0.43
1:a:128:ASP:OD1	1:a:131:ASP:HB3	2.18	0.43
1:a:291:ASP:C	1:a:293:LYS:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:768:MET:HE3	1:a:768:MET:HB3	1.94	0.43
1:b:13:TYR:N	1:b:13:TYR:HD1	2.16	0.43
1:b:72:SER:HB3	1:b:84:ARG:HH21	1.84	0.43
1:b:221:LEU:HD22	1:b:256:THR:CG2	2.44	0.43
1:b:227:LEU:HB3	1:b:251:VAL:HG12	2.01	0.43
1:b:255:ASP:OD1	1:b:256:THR:N	2.49	0.43
1:b:337:LEU:HD23	1:b:337:LEU:N	2.33	0.43
1:b:500:LEU:HA	1:b:566:ASP:OD1	2.19	0.43
1:b:760:GLU:OE1	1:b:760:GLU:HA	2.18	0.43
1:c:243:HIS:NE2	1:c:249:TRP:CD2	2.85	0.43
1:c:340:LEU:HG	1:c:353:ALA:CB	2.47	0.43
1:d:36:ILE:C	1:d:36:ILE:CD1	2.86	0.43
1:d:106:GLU:O	1:d:107:LYS:HD2	2.19	0.43
1:d:280:HIS:HD2	1:d:322:ASP:HB3	1.84	0.43
1:e:76:ASP:CG	1:e:81:VAL:HA	2.44	0.43
1:e:150:THR:HG23	1:e:151:TYR:N	2.34	0.43
1:e:151:TYR:N	1:e:151:TYR:CD1	2.87	0.43
1:e:235:PHE:CZ	1:e:264:TYR:CE1	3.07	0.43
1:f:554:ASP:HA	1:f:555:PRO:HD3	1.86	0.43
1:f:697:SER:HB3	1:g:706:LEU:HB2	2.00	0.43
1:g:325:VAL:HG23	1:g:364:GLU:HB3	2.01	0.43
1:g:522:PHE:CD2	1:g:522:PHE:O	2.72	0.43
1:g:662:ILE:O	1:g:666:THR:HB	2.19	0.43
1:h:65:VAL:HA	1:h:110:THR:HG22	2.01	0.43
1:h:169:LYS:H	1:h:201:VAL:HG12	1.83	0.43
1:h:235:PHE:CE1	1:h:237:ASP:HA	2.53	0.43
1:i:19:LEU:HA	1:i:32:PRO:HB2	2.00	0.43
1:i:45:PHE:HB2	1:i:48:VAL:HG23	2.00	0.43
1:j:154:GLN:HG3	1:j:155:LYS:HG3	2.01	0.43
1:k:128:ASP:OD1	1:k:131:ASP:HB3	2.18	0.43
1:k:550:LYS:HG3	1:k:551:ASN:HD22	1.84	0.43
1:k:579:VAL:CG2	1:k:599:ILE:HG23	2.48	0.43
1:l:13:TYR:N	1:l:13:TYR:CD1	2.87	0.43
1:m:337:LEU:HD23	1:m:337:LEU:H	1.84	0.43
1:m:340:LEU:HD23	1:m:353:ALA:N	2.25	0.43
1:m:539:LEU:CD2	1:m:643:VAL:HG13	2.49	0.43
1:A:401:VAL:HG11	1:A:406:TYR:CD2	2.53	0.43
1:B:164:GLN:CD	1:B:204:TYR:HB2	2.44	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:B:676:GLU:HA	1:B:676:GLU:OE1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:SER:HB3	1:C:31:GLY:C	2.44	0.43
1:C:65:VAL:CG1	1:C:110:THR:HG22	2.47	0.43
1:C:150:THR:HG23	1:C:151:TYR:N	2.34	0.43
1:C:236:ARG:HA	1:C:241:VAL:O	2.18	0.43
1:D:473:TYR:HD2	1:E:486:LEU:HB3	1.84	0.43
1:D:653:ALA:HB1	1:E:662:ILE:CD1	2.16	0.43
1:E:293:LYS:HD3	1:F:223:GLU:OE1	2.19	0.43
1:E:568:VAL:HG23	1:E:569:GLY:N	2.34	0.43
1:G:777:LEU:HD11	1:H:783:LYS:HB2	2.00	0.43
1:H:17:HIS:CD2	1:H:18:VAL:HG22	2.54	0.43
1:H:568:VAL:HG23	1:H:569:GLY:N	2.34	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: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:579:VAL:HG12	1:J:580:ARG:N	2.33	0.43
1:K:330:GLN:CB	1:K:379:ALA:HB3	2.43	0.43
1:K:508:PRO:O	1:K:509:HIS:HD2	2.02	0.43
1:K:759:LEU:HD22	1:L:768:MET:HG3	1.99	0.43
1:L:36:ILE:O	1:L:37:ARG:CG	2.67	0.43
1:L:125:ALA:HB3	1:L:139:ALA:O	2.19	0.43
1:L:126:LEU:HD13	1:L:157:VAL:HG21	2.01	0.43
1:L:327:SER:O	1:L:328:GLU:C	2.62	0.43
1:M:55:PRO:O	1:M:56:ARG:HG2	2.18	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:194:GLU:HG2	1:M:195:GLU:N	2.33	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:522:PHE:CD2	1:M:522:PHE:C	2.97	0.43
1:N:60:ILE:H	1:N:60:ILE:CD1	2.24	0.43
1:O:164:GLN:HB3	1:O:204:TYR:HA	2.00	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:330:GLN:CB	1:O:379:ALA:HB3	2.43	0.43
1:P:220:ILE:C	1:P:222:THR:N	2.74	0.43
1:P:224:LYS:C	1:P:272:PRO:HD3	2.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:803:GLY:CA	1:Q:806:THR:HB	2.48	0.43
1:R:13:TYR:N	1:R:13:TYR:HD1	2.16	0.43
1:R:61:VAL:HG13	1:R:65:VAL:HG21	2.01	0.43
1:R:423:VAL:O	1:R:427:LEU:HG	2.19	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:16:ILE:HA	1:U:34:THR:HG1	1.83	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:HE	1:W:179:ARG:HB2	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:OD1	1:X:108:ASP:N	2.52	0.43
1:X:311:GLN:N	1:X:314:GLU:HG3	2.33	0.43
1:Y:298:GLN:HG3	1:Z:305:GLU:CD	2.44	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:c:305:GLU:O	1:c:306:LYS:HG3	2.19	0.43
1:d:14:HIS:O	1:d:53:VAL:HB	2.19	0.43
1:d:65:VAL:HA	1:d:110:THR:HG22	2.00	0.43
1:d:122:HIS:HB3	1:d:159:VAL:HB	2.01	0.43
1:d:221:LEU:HD12	1:d:253:VAL:HG13	2.01	0.43
1:d:287:PRO:O	1:d:295:GLN:HB2	2.18	0.43
1:d:709:LEU:HD23	1:d:712:MET:HE1	2.00	0.43
1:e:14:HIS:HA	1:e:36:ILE:HB	2.01	0.43
1:e:65:VAL:HA	1:e:110:THR:HA	2.00	0.43
1:e:146:GLU:OE2	1:e:164:GLN:NE2	2.51	0.43
1:e:229:LEU:HD23	1:e:266:GLU:HA	2.00	0.43
1:e:558:ALA:O	1:e:561:LEU:HB2	2.19	0.43
1:e:777:LEU:HD11	1:f:783:LYS:CB	2.49	0.43
1:f:504:ARG:HD3	1:f:504:ARG:HA	1.85	0.43
1:f:567:PHE:CZ	1:f:568:VAL:HG13	2.54	0.43
1:h:655:GLN:O	1:h:658:VAL:HG12	2.19	0.43
1:i:38:GLN:H	1:i:38:GLN:HG2	1.55	0.43
1:i:285:LEU:HB2	1:i:315:ARG:HG3	1.99	0.43
1:i:415:TRP:CZ3	1:i:417:LYS:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:547:PHE:CD2	1:j:561:LEU:HD23	2.54	0.43
1:j:662:ILE:O	1:j:666:THR:HB	2.19	0.43
1:k:58:TYR:CD2	1:k:96:PRO:O	2.72	0.43
1:k:151:TYR:HD2	1:k:152:ILE:CD1	2.31	0.43
1:k:456:ARG:O	1:k:457:VAL:C	2.62	0.43
1:l:245:THR:C	1:l:247:GLU:H	2.27	0.43
1:l:391:GLN:HB2	1:l:398:VAL:HG22	2.01	0.43
1:A:190:ARG:O	1:A:191:VAL:HG23	2.19	0.42
1:A:249:TRP:N	1:A:249:TRP:CD1	2.87	0.42
1:A:360:ARG:HD3	1:A:407:MET:HG2	2.01	0.42
1:B:2:ALA:HB1	1:B:50:MET:HE1	2.01	0.42
1:B:564:VAL:CG2	1:B:631:ASN:ND2	2.83	0.42
1:C:67:ARG:HH21	1:C:107:LYS:HA	1.82	0.42
1:C:387:GLY:HA3	1:C:402:ILE:CG2	2.48	0.42
1:D:244:ARG:HB2	1:D:247:GLU:HG3	2.01	0.42
1:D:527:ILE:CD1	1:D:529:ILE:HG23	2.37	0.42
1:E:327:SER:HB2	1:E:331:GLY:N	2.34	0.42
1:E:359:ILE:HD13	1:E:359:ILE:H	1.84	0.42
1:F:61:VAL:HG13	1:F:65:VAL:CG2	2.49	0.42
1:F:288:MET:HE2	1:F:288:MET:HB3	1.88	0.42
1:G:29:GLU:O	1:G:84:ARG:HD3	2.19	0.42
1:G:165:ALA:HB3	1:G:174:LEU:HD11	1.99	0.42
1:G:236:ARG:HB3	1:G:236:ARG:HH11	1.83	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:684:ALA:O	1:G:685:ARG:C	2.62	0.42
1:H:165:ALA:CB	1:H:174:LEU:HD11	2.49	0.42
1:I:327:SER:N	1:I:331:GLY:HA3	2.34	0.42
1:I:388:ILE:HD13	1:I:390:VAL:HG13	2.01	0.42
1:J:18:VAL:CG1	1:J:48:VAL:HG22	2.35	0.42
1:J:252:THR:N	1:J:254:GLN:NE2	2.62	0.42
1:K:69:THR:OG1	1:K:106:GLU:OE1	2.33	0.42
1:K:151:TYR:N	1:K:151:TYR:HD1	2.17	0.42
1:K:745:LYS:HG3	1:L:753:ILE:HD11	2.01	0.42
1:L:649:ARG:NH2	1:M:655:GLN:HG2	2.34	0.42
1:M:90:ILE:HG21	1:M:154:GLN:HB2	2.00	0.42
1:M:235:PHE:CZ	1:M:264:TYR:CE1	3.07	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
1:O:595:SER:O	1:O:596:ALA:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (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:547:PHE:CD2	1:Q:561:LEU:HD23	2.54	0.42
1:R:2:ALA:HB3	1:R:46:ALA:O	2.19	0.42
1:R:67:ARG:HE	1:R:107:LYS:C	2.26	0.42
1:R:121:LEU:HD12	1:R:145:PHE:HD2	1.83	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:594:ASN:O	1:U:595:SER:C	2.61	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:V:260:VAL:C	1:V:262:ASP:N	2.77	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:W:130:GLU:CA	1:W:137:VAL:HG13	2.48	0.42
1:W:296:LEU:HD22	1:W:296:LEU:N	2.34	0.42
1:W:338:GLN:HB3	1:W:339:PRO:HD3	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:a:384:GLN:H	1:a:384:GLN:NE2	2.16	0.42
1:a:719:THR:O	1:a:723:LYS:HB2	2.19	0.42
1:b:183:PHE:HD2	1:b:184:ASP:N	2.17	0.42
1:b:220:ILE:C	1:b:222:THR:N	2.77	0.42
1:b:221:LEU:HA	1:b:253:VAL:HG13	2.01	0.42
1:c:135:ASP:HB3	1:c:136:LYS:H	1.55	0.42
1:c:481:VAL:HG11	1:c:487:VAL:CG1	2.49	0.42
1:d:30:VAL:HG22	1:d:74:LEU:HG	2.01	0.42
1:d:38:GLN:H	1:d:38:GLN:HG2	1.61	0.42
1:d:236:ARG:HB3	1:d:236:ARG:HH11	1.83	0.42
1:d:575:ILE:HD12	1:d:603:VAL:HG13	2.00	0.42
1:e:421:SER:O	1:e:423:VAL:N	2.52	0.42
1:f:114:VAL:C	1:f:118:ASN:HD22	2.26	0.42
1:f:123:LEU:CD1	1:f:143:TRP:HB2	2.50	0.42
1:f:471:TYR:O	1:f:493:GLU:HA	2.19	0.42
1:g:644:GLU:HA	1:g:645:PRO:HD3	1.95	0.42
1:h:77:ILE:HG13	1:h:80:GLN:H	1.84	0.42
1:h:92:LEU:HB2	1:h:94:GLN:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:268:LEU:HD12	1:h:269:GLY:O	2.19	0.42
1:h:557:GLU:O	1:h:560:LYS:HB2	2.19	0.42
1:i:5:GLU:CG	1:i:43:VAL:HG21	2.48	0.42
1:i:334:LEU:HD23	1:i:335:LYS:N	2.34	0.42
1:i:360:ARG:HG3	1:i:361:GLY:N	2.34	0.42
1:i:560:LYS:HD2	1:i:630:GLN:O	2.18	0.42
1:i:564:VAL:HG22	1:i:631:ASN:ND2	2.34	0.42
1:j:205:LEU:HD22	1:j:211:GLU:HB2	2.01	0.42
1:j:337:LEU:HD12	1:j:339:PRO:O	2.18	0.42
1:k:14:HIS:ND1	1:k:36:ILE:CG2	2.79	0.42
1:k:330:GLN:CG	1:k:379:ALA:HB3	2.48	0.42
1:k:501:SER:HA	1:k:507:ARG:O	2.19	0.42
1:k:586:VAL:HG12	1:k:587:THR:O	2.18	0.42
1:l:9:ARG:CZ	1:l:15:TYR:HB3	2.49	0.42
1:l:220:ILE:O	1:l:253:VAL:HG22	2.19	0.42
1:l:234:ASN:N	1:l:234:ASN:HD22	2.16	0.42
1:m:9:ARG:CZ	1:m:15:TYR:HB3	2.49	0.42
1:A:11:PRO:HB2	1:A:12:PRO:HD3	2.00	0.42
1:A:256:THR:O	1:A:256:THR:HG23	2.19	0.42
1:A:402:ILE:HD13	1:A:402:ILE:N	2.30	0.42
1:B:14:HIS:HB3	1:B:56:ARG:CB	2.38	0.42
1:B:335:LYS:HE2	1:B:335:LYS:HB2	1.89	0.42
1:C:90:ILE:HD13	1:C:90:ILE:N	2.33	0.42
1:C:251:VAL:HG21	1:C:257:GLU:CG	2.49	0.42
1:D:3:THR:HG22	1:D:50:MET:HE2	2.01	0.42
1:D:208:VAL:HG23	1:D:209:PHE:CD2	2.50	0.42
1:D:221:LEU:CD2	1:D:256:THR:CG2	2.97	0.42
1:D:384:GLN:O	1:D:403:GLY:HA2	2.19	0.42
1:F:9:ARG:CZ	1:F:15:TYR:HB3	2.50	0.42
1:F:252:THR:H	1:F:254:GLN:HE21	1.65	0.42
1:F:452:ARG:HG3	1:F:452:ARG:HH11	1.84	0.42
1:H:10:ILE:HB	1:H:13:TYR:CG	2.54	0.42
1:H:14:HIS:HB3	1:H:56:ARG:CB	2.47	0.42
1:H:287:PRO:O	1:H:295:GLN:HB2	2.19	0.42
1:H:395:THR:C	1:H:397:LYS:H	2.26	0.42
1:I:279:ARG:O	1:I:323:VAL:N	2.50	0.42
1:J:179:ARG:HE	1:J:179:ARG:HB2	1.54	0.42
1:J:273:ILE:HG13	1:J:308:PHE:HB3	2.00	0.42
1:K:398:VAL:H	1:L:384:GLN:CD	2.25	0.42
1:K:418:GLU:HG2	1:K:423:VAL:HG22	2.00	0.42
1:K:500:LEU:HA	1:K:566:ASP:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:ARG:HB3	1:L:236:ARG:NH1	2.34	0.42
1:M:69:THR:HA	1:M:106:GLU:CB	2.49	0.42
1:M:129:PHE:HA	1:M:137:VAL:HG22	2.00	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: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:6:ALA:HA	1:O:41:GLU:O	2.19	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: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:768:MET:HE3	1:Q:768:MET:HB3	1.91	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:R:340:LEU:HD21	1:R:352:GLN:HG2	1.99	0.42
1:S:2:ALA:HB3	1:S:46:ALA:O	2.19	0.42
1:S:175:ARG:HB3	1:S:212:VAL:HB	2.01	0.42
1:S:327:SER:N	1:S:331:GLY:HA3	2.32	0.42
1:T:5:GLU:CG	1:T:43:VAL:HG21	2.49	0.42
1:T:385:ASN:HD22	1:T:385:ASN:HA	1.70	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:70:GLN:HG2	1:X:104:VAL:HG12	2.00	0.42
1:X:400:ALA:HB2	1:X:491:PRO:HD3	2.01	0.42
1:Z:481:VAL:O	1:Z:481:VAL:HG13	2.20	0.42
1:Z:481:VAL:HG11	1:Z:487:VAL:CG1	2.48	0.42
1:a:58:TYR:CD1	1:a:99:LEU:HD12	2.54	0.42
1:a:226:ALA:O	1:a:269:GLY:HA2	2.19	0.42
1:a:235:PHE:CE1	1:a:264:TYR:CE1	3.07	0.42
1:a:381:PRO:HA	1:a:405:THR:CB	2.49	0.42
1:a:769:GLU:O	1:a:769:GLU:HG2	2.15	0.42
1:a:812:VAL:HG12	1:a:812:VAL:O	2.18	0.42
1:b:194:GLU:HG2	1:b:195:GLU:N	2.34	0.42
1:b:332:LEU:HD21	1:b:407:MET:HB2	2.00	0.42
1:c:60:ILE:HG22	1:c:66:SER:CA	2.49	0.42
1:c:128:ASP:HB2	1:c:155:LYS:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:244:ARG:O	1:c:247:GLU:HB2	2.20	0.42
1:c:335:LYS:HB2	1:c:335:LYS:HE2	1.88	0.42
1:c:580:ARG:NH1	1:d:640:VAL:HG13	2.34	0.42
1:e:485:GLU:HG2	1:e:486:LEU:N	2.33	0.42
1:e:504:ARG:HA	1:e:504:ARG:HD3	1.80	0.42
1:e:649:ARG:NH2	1:f:655:GLN:HG2	2.22	0.42
1:f:108:ASP:OD1	1:f:108:ASP:N	2.52	0.42
1:f:334:LEU:C	1:f:335:LYS:HG3	2.42	0.42
1:g:206:PRO:HD2	1:g:209:PHE:CD1	2.54	0.42
1:h:169:LYS:HE2	1:h:169:LYS:HB3	1.65	0.42
1:h:476:LYS:HG3	1:i:485:GLU:HG3	2.02	0.42
1:i:65:VAL:HA	1:i:110:THR:HA	2.00	0.42
1:i:209:PHE:HD2	1:i:209:PHE:H	1.67	0.42
1:i:522:PHE:CD2	1:i:522:PHE:C	2.97	0.42
1:i:531:THR:HA	1:i:583:VAL:O	2.19	0.42
1:j:231:ALA:HB2	1:j:243:HIS:HD2	1.84	0.42
1:j:534:HIS:CD2	1:k:654:LEU:HG	2.54	0.42
1:k:260:VAL:C	1:k:262:ASP:N	2.78	0.42
1:l:10:ILE:HD12	1:l:10:ILE:N	2.20	0.42
1:l:395:THR:HB	1:l:397:LYS:H	1.84	0.42
1:m:125:ALA:HB3	1:m:140:GLY:HA2	2.01	0.42
1:m:130:GLU:H	1:m:137:VAL:HG13	1.83	0.42
1:m:385:ASN:HD22	1:m:385:ASN:HA	1.68	0.42
1:A:387:GLY:CA	1:A:402:ILE:HG22	2.37	0.42
1:B:10:ILE:HD13	1:B:13:TYR:CD2	2.54	0.42
1:B:43:VAL:CG1	1:B:45:PHE:O	2.67	0.42
1:B:146:GLU:HA	1:B:146:GLU:OE1	2.19	0.42
1:C:70:GLN:O	1:C:70:GLN:HG3	2.20	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:E:100:TYR:CD2	1:E:101:PRO:HD2	2.55	0.42
1:E:167:VAL:HG13	1:E:202:GLY:H	1.82	0.42
1:E:298:GLN:HG3	1:F:305:GLU:CD	2.44	0.42
1:F:84:ARG:HG2	1:F:85:HIS:ND1	2.35	0.42
1:F:288:MET:CE	1:F:294:ASN:ND2	2.82	0.42
1:F:494:GLN:HA	1:F:494:GLN:NE2	2.33	0.42
1:F:768:MET:C	1:F:770:LEU:N	2.77	0.42
1:G:13:TYR:HD1	1:G:13:TYR:N	2.17	0.42
1:G:116:LEU:CB	1:G:117:PRO:HD2	2.38	0.42
1:G:251:VAL:HA	1:G:254:GLN:NE2	2.33	0.42
1:H:335:LYS:HE2	1:H:371:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:701:LYS:HG3	1:I:709:LEU:HD13	2.00	0.42
1:I:68:ASP:O	1:I:106:GLU:HB2	2.19	0.42
1:I:260:VAL:C	1:I:262:ASP:N	2.78	0.42
1:J:241:VAL:O	1:J:243:HIS:ND1	2.51	0.42
1:K:10:ILE:H	1:K:10:ILE:CD1	2.22	0.42
1:K:13:TYR:N	1:K:13:TYR:CD1	2.87	0.42
1:K:154:GLN:CD	1:K:155:LYS:HG3	2.44	0.42
1:K:208:VAL:HG23	1:K:209:PHE:HD2	1.83	0.42
1:K:381:PRO:HA	1:K:405:THR:CB	2.49	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:291:ASP:C	1:M:293:LYS:N	2.76	0.42
1:M:318:ARG:HB2	1:M:321:GLN:CD	2.44	0.42
1:M:683:GLU:CD	1:M:683:GLU:C	2.87	0.42
1:O:330:GLN:CD	1:O:407:MET:HG3	2.44	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:69:THR:HA	1:Q:106:GLU:HB2	2.01	0.42
1:Q:244:ARG:HB3	1:R:221:LEU:HD23	2.01	0.42
1:Q:504:ARG:HA	1:Q:504:ARG:HH11	1.84	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:R:176:LEU:O	1:R:196:TRP:HB2	2.19	0.42
1:R:697:SER:CA	1:S:706:LEU:HD23	2.49	0.42
1:S:197:LEU:HD22	1:S:197:LEU:HA	1.96	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:HD12	1:T:380:ILE:O	2.19	0.42
1:U:527:ILE:HD13	1:U:527:ILE:N	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:328:GLU:O	1:X:329:GLN:C	2.60	0.42
1:X:332:LEU:HD11	1:X:379:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:60:ILE:HG13	1:Y:92:LEU:O	2.19	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:535:ALA:HA	1:Z:658:VAL:HG21	2.01	0.42
1:Z:472:ASP:HA	1:Z:493:GLU:CB	2.49	0.42
1:Z:663:GLU:O	1:Z:666:THR:HG22	2.19	0.42
1:a:121:LEU:HB2	1:a:145:PHE:CB	2.49	0.42
1:a:419:LEU:CG	1:a:420:PRO:HD2	2.40	0.42
1:a:564:VAL:CG2	1:a:631:ASN:ND2	2.82	0.42
1:b:252:THR:O	1:b:254:GLN:NE2	2.52	0.42
1:b:340:LEU:HG	1:b:353:ALA:CB	2.49	0.42
1:b:399:ARG:NH2	1:b:412:GLU:OE2	2.34	0.42
1:b:762:VAL:O	1:b:766:ARG:HB2	2.18	0.42
1:b:811:ALA:HB1	1:c:810:LEU:HG	2.01	0.42
1:c:154:GLN:HG3	1:c:155:LYS:H	1.83	0.42
1:c:660:LEU:O	1:c:663:GLU:HB3	2.20	0.42
1:c:770:LEU:CD1	1:c:774:ARG:HH22	2.32	0.42
1:d:472:ASP:HB3	1:d:477:ARG:HB2	2.02	0.42
1:d:563:SER:HB3	1:e:520:PRO:HG3	2.00	0.42
1:e:77:ILE:HG13	1:e:80:GLN:H	1.84	0.42
1:e:235:PHE:CE1	1:e:264:TYR:CE1	3.07	0.42
1:e:273:ILE:CD1	1:e:308:PHE:HB3	2.50	0.42
1:e:409:THR:O	1:e:410:GLN:C	2.62	0.42
1:f:330:GLN:HE22	1:f:360:ARG:HD2	1.85	0.42
1:f:469:GLN:HB3	1:f:496:THR:CG2	2.50	0.42
1:f:511:ARG:NH2	1:f:517:LEU:HD11	2.30	0.42
1:g:69:THR:HA	1:g:106:GLU:HB3	2.01	0.42
1:g:243:HIS:NE2	1:g:249:TRP:CE2	2.87	0.42
1:g:771:ILE:HA	1:g:774:ARG:NH1	2.34	0.42
1:h:68:ASP:O	1:h:69:THR:HB	2.18	0.42
1:h:229:LEU:HD23	1:h:266:GLU:HA	2.01	0.42
1:i:123:LEU:HD11	1:i:143:TRP:HB2	2.01	0.42
1:i:539:LEU:HD22	1:i:643:VAL:HG22	2.02	0.42
1:j:70:GLN:HE21	1:j:104:VAL:HG12	1.84	0.42
1:j:337:LEU:HD23	1:j:337:LEU:H	1.84	0.42
1:k:125:ALA:HB1	1:k:128:ASP:HB3	2.01	0.42
1:k:220:ILE:HD12	1:k:252:THR:HA	2.02	0.42
1:l:5:GLU:HA	1:l:7:ILE:HD11	2.00	0.42
1:l:337:LEU:HD12	1:l:339:PRO:O	2.18	0.42
1:m:89:GLU:HA	1:m:90:ILE:HD13	2.00	0.42
1:m:120:ALA:HB2	1:m:164:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:291:ASP:C	1:m:293:LYS:N	2.77	0.42
1:m:398:VAL:HG11	1:m:415:TRP:CD2	2.55	0.42
1:A:185:ARG:H	1:A:209:PHE:HZ	1.66	0.42
1:B:500:LEU:HA	1:B:566:ASP:OD1	2.19	0.42
1:B:529:ILE:HD12	1:B:529:ILE:O	2.19	0.42
1:C:252:THR:H	1:C:254:GLN:NE2	2.17	0.42
1:C:291:ASP:C	1:C:293:LYS:N	2.76	0.42
1:C:382:LEU:HB2	1:C:404:SER:O	2.19	0.42
1:C:469:GLN:HB3	1:C:496:THR:CG2	2.47	0.42
1:D:84:ARG:HG3	1:D:85:HIS:ND1	2.34	0.42
1:D:179:ARG:NH2	1:D:209:PHE:O	2.52	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:E:109:ILE:CD1	1:E:153:PRO:CB	2.74	0.42
1:F:135:ASP:C	1:F:136:LYS:HG3	2.44	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:3:THR:HG22	1:G:50:MET:HE1	2.00	0.42
1:G:67:ARG:HG2	1:G:108:ASP:HB3	2.01	0.42
1:G:385:ASN:HD22	1:G:385:ASN:HA	1.69	0.42
1:H:243:HIS:NE2	1:H:249:TRP:CD2	2.87	0.42
1:H:288:MET:HE1	1:H:312:PRO:O	2.17	0.42
1:H:394:LYS:HA	1:I:329:GLN:NE2	2.34	0.42
1:I:532:ALA:HB1	1:J:593:LYS:HE2	2.01	0.42
1:J:67:ARG:NE	1:J:108:ASP:HB3	2.34	0.42
1:K:273:ILE:CG2	1:K:310:LEU:HD11	2.49	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:O:722:ALA:HB1	1:P:732:ALA:HB2	2.00	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:N	1:P:575:ILE:CD1	2.82	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:36:ILE:HG21	1:R:99:LEU:HB2	2.00	0.42
1:R:260:VAL:O	1:R:262:ASP:N	2.52	0.42
1:R:402:ILE:HD12	1:R:402:ILE:C	2.44	0.42
1:S:10:ILE:HA	1:S:11:PRO:HD2	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:472:ASP:HA	1:S:493:GLU:HA	2.00	0.42
1:S:496:THR:CG2	1:S:496:THR:O	2.67	0.42
1:T:379:ALA:HB2	1:T:407:MET:HB3	2.01	0.42
1:T:601:MET:HE2	1:T:601:MET:HB3	1.79	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
1:Z:36:ILE:O	1:Z:37:ARG:HG3	2.20	0.42
1:a:3:THR:CG2	1:a:50:MET:CE	2.96	0.42
1:a:176:LEU:HB2	1:a:196:TRP:CB	2.48	0.42
1:b:564:VAL:HG22	1:b:631:ASN:ND2	2.34	0.42
1:b:606:PHE:HA	1:b:622:ALA:HA	2.01	0.42
1:c:43:VAL:CG1	1:c:45:PHE:O	2.67	0.42
1:c:298:GLN:HG3	1:d:305:GLU:CD	2.45	0.42
1:c:327:SER:O	1:c:329:GLN:N	2.52	0.42
1:d:245:THR:OG1	1:e:170:GLN:OE1	2.38	0.42
1:d:327:SER:O	1:d:328:GLU:C	2.61	0.42
1:e:108:ASP:OD1	1:e:108:ASP:N	2.53	0.42
1:e:327:SER:N	1:e:331:GLY:HA3	2.35	0.42
1:e:464:HIS:CD2	1:e:484:PRO:HB3	2.54	0.42
1:f:377:ARG:NH1	1:f:408:LEU:O	2.52	0.42
1:g:30:VAL:HG22	1:g:74:LEU:CG	2.48	0.42
1:g:123:LEU:HD11	1:g:143:TRP:HD1	1.84	0.42
1:g:262:ASP:O	1:g:262:ASP:CG	2.62	0.42
1:g:273:ILE:CG1	1:g:308:PHE:HB3	2.38	0.42
1:g:490:ASP:O	1:g:491:PRO:C	2.61	0.42
1:h:127:LEU:HD12	1:i:64:PRO:HG3	2.01	0.42
1:h:529:ILE:HD12	1:h:537:LEU:HB2	2.01	0.42
1:h:591:PHE:O	1:h:595:SER:N	2.52	0.42
1:h:653:ALA:HB3	1:i:662:ILE:HD11	1.90	0.42
1:i:69:THR:HA	1:i:106:GLU:CB	2.49	0.42
1:i:109:ILE:HD12	1:i:153:PRO:HB2	2.01	0.42
1:i:185:ARG:HG2	1:i:209:PHE:HE2	1.85	0.42
1:i:244:ARG:O	1:i:247:GLU:HB2	2.19	0.42
1:i:808:ARG:O	1:i:812:VAL:HG23	2.19	0.42
1:j:29:GLU:O	1:j:84:ARG:NH1	2.37	0.42
1:j:273:ILE:CD1	1:j:316:LEU:HD11	2.26	0.42
1:j:481:VAL:O	1:j:481:VAL:CG1	2.67	0.42
1:k:169:LYS:HG3	1:k:170:GLN:H	1.85	0.42
1:k:318:ARG:O	1:k:319:GLY:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:564:VAL:HG22	1:l:631:ASN:HD22	1.82	0.42
1:m:72:SER:C	1:m:84:ARG:HE	2.28	0.42
1:A:1:MET:HE1	1:A:47:PRO:HB3	1.96	0.42
1:B:10:ILE:HD13	1:B:13:TYR:CE2	2.55	0.42
1:C:204:TYR:HE2	1:C:206:PRO:HG3	1.82	0.42
1:C:220:ILE:HD12	1:C:220:ILE:O	2.20	0.42
1:C:586:VAL:HG13	1:C:590:ASP:OD2	2.20	0.42
1:C:715:ALA:HA	1:D:724:ALA:HB1	2.02	0.42
1:C:796:LYS:CA	1:C:799:THR:HG22	2.46	0.42
1:D:74:LEU:HD22	1:D:100:TYR:CE2	2.55	0.42
1:D:150:THR:HG23	1:D:151:TYR:N	2.35	0.42
1:D:236:ARG:HB3	1:D:236:ARG:HH11	1.84	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:F:108:ASP:OD1	1:F:108:ASP:N	2.52	0.42
1:F:419:LEU:HG	1:F:420:PRO:CD	2.25	0.42
1:F:456:ARG:O	1:F:457:VAL:C	2.61	0.42
1:F:807:ILE:CD1	1:G:806:THR:HG21	2.50	0.42
1:G:13:TYR:N	1:G:13:TYR:CD1	2.87	0.42
1:G:165:ALA:HB1	1:G:174:LEU:HD11	2.01	0.42
1:G:311:GLN:H	1:G:314:GLU:HG3	1.82	0.42
1:G:467:ALA:HB2	1:G:482:PHE:CD2	2.55	0.42
1:I:336:ALA:H	1:I:374:VAL:HG23	1.85	0.42
1:I:591:PHE:O	1:I:595:SER:N	2.50	0.42
1:J:220:ILE:HD12	1:J:253:VAL:H	1.84	0.42
1:J:291:ASP:C	1:J:293:LYS:N	2.78	0.42
1:J:786:GLN:O	1:J:789:ASN:HB2	2.19	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: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:M:393:VAL:O	1:N:405:THR:HG21	2.19	0.42
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:N:421:SER:O	1:N:422:GLY:C	2.62	0.42
1:O:601:MET:CG	1:O:622:ALA:HB2	2.44	0.42
1:P:421:SER:O	1:P:422:GLY:C	2.62	0.42
1:P:558:ALA:O	1:P:561:LEU:HB2	2.19	0.42
1:R:70:GLN:O	1:R:70:GLN:HG3	2.20	0.42
1:R:354:GLY:O	1:R:356:CYS:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:501:SER:HB3	1:R:507:ARG:O	2.20	0.42
1:R:802:LEU:O	1:R:803:GLY:C	2.62	0.42
1:S:461:ARG:O	1:S:463:PRO:HD3	2.20	0.42
1:S:788:ALA:HB1	1:T:794:LYS:HG3	2.01	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:381:PRO:C	1:T:405:THR:HG22	2.44	0.42
1:T:579:VAL:HG22	1:T:599:ILE:HG23	2.00	0.42
1:U:326:LEU:O	1:U:328:GLU:HG2	2.19	0.42
1:U:395:THR:C	1:U:397:LYS:H	2.27	0.42
1:V:132:LYS:HG3	1:V:133:ASN:H	1.84	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:Z:485:GLU:HG2	1:Z:486:LEU:H	1.81	0.42
1:a:73:VAL:HG11	1:a:82:ARG:HB2	2.00	0.42
1:a:220:ILE:C	1:a:222:THR:H	2.26	0.42
1:a:243:HIS:NE2	1:a:249:TRP:CE2	2.87	0.42
1:a:759:LEU:CD1	1:b:764:LYS:HB3	2.49	0.42
1:a:799:THR:HG21	1:b:801:ALA:HB1	2.02	0.42
1:b:53:VAL:CG1	1:b:56:ARG:HG3	2.49	0.42
1:b:124:LYS:HA	1:b:142:GLU:HA	2.01	0.42
1:b:281:TYR:O	1:b:282:CYS:HB3	2.19	0.42
1:b:396:GLY:CA	1:c:405:THR:HG23	2.49	0.42
1:b:535:ALA:HA	1:c:658:VAL:HG21	2.02	0.42
1:b:569:GLY:O	1:b:573:LYS:HB2	2.19	0.42
1:b:681:GLU:HG3	1:b:685:ARG:HH21	1.84	0.42
1:c:469:GLN:HB2	1:c:562:PHE:CE1	2.55	0.42
1:d:57:HIS:O	1:d:99:LEU:HD11	2.19	0.42
1:d:221:LEU:HD22	1:d:256:THR:HB	2.02	0.42
1:d:365:TYR:CE2	1:d:367:PRO:HA	2.55	0.42
1:d:766:ARG:HD3	1:e:772:TYR:CG	2.54	0.42
1:f:65:VAL:HG13	1:f:110:THR:HG22	2.01	0.42
1:f:135:ASP:C	1:f:136:LYS:HG3	2.45	0.42
1:g:172:GLN:HG2	1:g:216:VAL:HG12	2.01	0.42
1:g:252:THR:O	1:g:253:VAL:C	2.63	0.42
1:g:326:LEU:HD21	1:g:333:LEU:CG	2.45	0.42
1:g:504:ARG:HD3	1:g:504:ARG:HA	1.85	0.42
1:h:90:ILE:HD12	1:h:154:GLN:HG2	2.02	0.42
1:i:543:TYR:CE2	1:i:575:ILE:HG21	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:607:GLU:H	1:i:622:ALA:HA	1.84	0.42
1:i:708:GLU:HG3	1:j:716:VAL:HG11	2.01	0.42
1:j:65:VAL:HG12	1:j:110:THR:HG22	1.99	0.42
1:j:181:GLU:O	1:j:182:CYS:C	2.63	0.42
1:j:591:PHE:O	1:j:595:SER:N	2.51	0.42
1:k:22:ASN:ND2	1:l:39:ASP:HB3	2.35	0.42
1:k:554:ASP:HA	1:k:555:PRO:HD3	1.88	0.42
1:l:154:GLN:HG3	1:l:155:LYS:HE3	2.02	0.42
1:l:298:GLN:HG3	1:m:305:GLU:CD	2.44	0.42
1:l:802:LEU:HD12	1:l:806:THR:HG22	2.01	0.42
1:m:224:LYS:O	1:m:272:PRO:HD3	2.20	0.42
1:m:260:VAL:C	1:m:262:ASP:N	2.77	0.42
1:A:520:PRO:HA	1:A:546:HIS:HB3	2.02	0.42
1:A:569:GLY:O	1:A:570:ASP:C	2.62	0.42
1:A:689:GLU:O	1:A:693:ILE:HG12	2.20	0.42
1:B:8:ILE:HG22	1:B:40:ASN:HD21	1.84	0.42
1:B:38:GLN:H	1:B:38:GLN:HG2	1.67	0.42
1:C:116:LEU:CB	1:C:117:PRO:HD2	2.41	0.42
1:C:275:THR:O	1:C:305:GLU:HA	2.19	0.42
1:C:481:VAL:O	1:C:481:VAL:HG13	2.18	0.42
1:C:517:LEU:O	1:C:545:TRP:HH2	2.03	0.42
1:D:199:ARG:HH21	1:D:258:ALA:HB3	1.84	0.42
1:D:235:PHE:CE1	1:D:264:TYR:CE1	3.08	0.42
1:D:335:LYS:HE2	1:D:335:LYS:HB2	1.93	0.42
1:D:504:ARG:HD3	1:D:504:ARG:HA	1.90	0.42
1:D:704:LYS:HD2	1:E:712:MET:HB3	2.01	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:F:177:ARG:H	1:F:212:VAL:HG23	1.85	0.42
1:F:224:LYS:C	1:F:272:PRO:HD3	2.45	0.42
1:F:249:TRP:CD1	1:F:249:TRP:H	2.37	0.42
1:F:426:LEU:C	1:F:428:ASN:H	2.28	0.42
1:F:587:THR:HG23	1:F:590:ASP:HB3	2.01	0.42
1:G:30:VAL:HG22	1:G:74:LEU:HD11	2.02	0.42
1:G:276:LEU:CD1	1:G:278:PRO:HD2	2.49	0.42
1:G:324:TYR:O	1:G:365:TYR:N	2.45	0.42
1:I:93:ALA:C	1:I:95:ASP:H	2.28	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:337:LEU:O	1:I:337:LEU:HG	2.19	0.42
1:I:579:VAL:HG12	1:I:580:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:152:ILE:O	1:J:152:ILE:HG12	2.17	0.42
1:J:249:TRP:N	1:J:249:TRP:CD1	2.87	0.42
1:J:523:PHE:CD1	1:J:568:VAL:HG12	2.54	0.42
1:J:719:THR:HG22	1:K:728:SER:HA	2.01	0.42
1:K:121:LEU:HB2	1:K:145:PHE:CB	2.45	0.42
1:K:594:ASN:HB2	1:K:598:ILE:CD1	2.50	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:5:GLU:O	1:M:41:GLU:O	2.38	0.42
1:M:267:VAL:O	1:M:268:LEU:HB2	2.20	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:OD1	1:N:286:ASP:N	2.53	0.42
1:O:243:HIS:HE2	1:O:249:TRP:CG	2.36	0.42
1:O:318:ARG:O	1:O:319:GLY:C	2.63	0.42
1:O:650:THR:OG1	1:P:655:GLN:NE2	2.51	0.42
1:P:220:ILE:O	1:P:253:VAL:HG22	2.19	0.42
1:R:30:VAL:HG22	1:R:74:LEU:CD1	2.50	0.42
1:R:62:ALA:O	1:R:93:ALA:HB2	2.20	0.42
1:S:296:LEU:HD22	1:S:296:LEU:N	2.35	0.42
1:T:65:VAL:CG1	1:T:110:THR:HG22	2.50	0.42
1:U:533:ASP:CG	1:U:588:PHE:H	2.27	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:802:LEU:O	1:W:803:GLY:C	2.62	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
1:X:501:SER:HB3	1:X:508:PRO:HA	2.01	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:70:GLN:HE21	1:a:104:VAL:HG12	1.83	0.42
1:b:93:ALA:C	1:b:95:ASP:H	2.28	0.42
1:b:416:GLU:HB2	1:b:454:LYS:HB3	2.01	0.42
1:c:234:ASN:ND2	1:c:245:THR:H	2.18	0.42
1:c:328:GLU:HG3	1:c:329:GLN:N	2.35	0.42
1:d:64:PRO:HA	1:d:111:PRO:CD	2.49	0.42
1:e:62:ALA:O	1:e:93:ALA:HB2	2.19	0.42
1:e:507:ARG:CB	1:e:510:ALA:HB2	2.48	0.42
1:e:653:ALA:HB2	1:f:659:GLN:HE22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:46:ALA:H	1:f:47:PRO:HD3	1.83	0.42
1:f:150:THR:HG23	1:f:151:TYR:N	2.35	0.42
1:f:217:ASP:OD2	1:f:257:GLU:C	2.62	0.42
1:f:281:TYR:CE1	1:f:321:GLN:HB2	2.54	0.42
1:f:382:LEU:H	1:f:405:THR:HG22	1.84	0.42
1:f:385:ASN:HD22	1:f:385:ASN:HA	1.64	0.42
1:f:811:ALA:C	1:f:813:ALA:H	2.28	0.42
1:g:176:LEU:HB2	1:g:196:TRP:CB	2.41	0.42
1:g:288:MET:HB3	1:g:294:ASN:HA	2.02	0.42
1:g:391:GLN:HB2	1:g:398:VAL:HG22	2.01	0.42
1:h:176:LEU:HA	1:h:210:GLU:O	2.18	0.42
1:i:128:ASP:OD1	1:i:131:ASP:HB3	2.20	0.42
1:i:333:LEU:HD23	1:i:376:GLU:HA	2.01	0.42
1:j:113:GLN:HG2	1:j:150:THR:HB	2.01	0.42
1:k:46:ALA:H	1:k:47:PRO:HD3	1.84	0.42
1:k:547:PHE:CD2	1:k:561:LEU:HD23	2.54	0.42
1:k:595:SER:O	1:k:599:ILE:HG12	2.20	0.42
1:l:176:LEU:HD23	1:l:211:GLU:HA	2.02	0.42
1:m:5:GLU:O	1:m:41:GLU:O	2.37	0.42
1:m:808:ARG:O	1:m:812:VAL:HG23	2.20	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: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:60:ILE:HB	1:E:93:ALA:HA	2.02	0.42
1:E:130:GLU:HA	1:E:137:VAL:N	2.19	0.42
1:E:326:LEU:HD13	1:E:360:ARG:C	2.44	0.42
1:E:415:TRP:CZ3	1:E:417:LYS:HB3	2.55	0.42
1:G:159:VAL:HG12	1:G:160:VAL:HG22	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:H:122:HIS:HB3	1:H:159:VAL:HB	2.01	0.42
1:H:190:ARG:O	1:H:191:VAL:HG23	2.19	0.42
1:H:220:ILE:C	1:H:222:THR:N	2.78	0.42
1:H:458:VAL:CG1	1:H:489:LEU:HD12	2.50	0.42
1:H:649:ARG:NH2	1:I:655:GLN:HG2	2.34	0.42
1:I:382:LEU:N	1:I:405:THR:HG22	2.34	0.42
1:I:504:ARG:HA	1:I:504:ARG:HD3	1.80	0.42
1:J:46:ALA:H	1:J:47:PRO:HD3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:383:ASP:HB2	1:J:386:GLU:HG2	2.02	0.42
1:J:474:ARG:HA	1:K:385:ASN:OD1	2.19	0.42
1:K:260:VAL:O	1:K:262:ASP:N	2.53	0.42
1:L:67:ARG:HE	1:L:107:LYS:C	2.26	0.42
1:L:194:GLU:HG2	1:L:195:GLU:N	2.35	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
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:HG2	1:O:689:GLU:O	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:O	1:R:109:ILE:HG13	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: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:T:5:GLU:HG2	1:T:43:VAL:CG2	2.49	0.42
1:T:32:PRO:HG2	1:U:11:PRO:CG	2.50	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:318:ARG:O	1:T:319:GLY:C	2.63	0.42
1:T:747:LYS:HB3	1:T:751:LEU:HD12	2.02	0.42
1:U:244:ARG:O	1:U:247:GLU:HB2	2.19	0.42
1:U:276:LEU:O	1:U:277:GLY:C	2.61	0.42
1:U:747:LYS:O	1:U:748:ALA:C	2.62	0.42
1:V:13:TYR:N	1:V:13:TYR:HD1	2.17	0.42
1:V:230:ARG:HH11	1:V:230:ARG:HB3	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:69:THR:HA	1:W:106:GLU:HB3	2.02	0.42
1:W:311:GLN:N	1:W:314:GLU:HG3	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:554:ASP:OD2	1:Z:554:ASP:C	2.61	0.42
1:a:121:LEU:O	1:a:144:LEU:HA	2.20	0.42
1:a:252:THR:O	1:a:253:VAL:C	2.62	0.42
1:a:273:ILE:HG13	1:a:308:PHE:HB3	2.02	0.42
1:a:328:GLU:O	1:a:329:GLN:C	2.62	0.42
1:a:472:ASP:CA	1:a:493:GLU:HB3	2.47	0.42
1:b:84:ARG:HG3	1:b:85:HIS:ND1	2.35	0.42
1:b:252:THR:O	1:b:253:VAL:C	2.63	0.42
1:c:208:VAL:HG23	1:c:209:PHE:HD2	1.84	0.42
1:c:474:ARG:HH22	1:d:384:GLN:HG2	1.83	0.42
1:d:122:HIS:CG	1:d:159:VAL:HB	2.55	0.42
1:e:177:ARG:H	1:e:212:VAL:HG23	1.85	0.42
1:e:185:ARG:NH2	1:e:207:ALA:HB3	2.30	0.42
1:e:236:ARG:HB3	1:e:236:ARG:HH11	1.85	0.42
1:e:252:THR:O	1:e:253:VAL:C	2.62	0.42
1:e:291:ASP:C	1:e:293:LYS:N	2.78	0.42
1:e:398:VAL:HG11	1:e:415:TRP:CD2	2.55	0.42
1:f:70:GLN:HE21	1:f:104:VAL:HG12	1.85	0.42
1:f:125:ALA:HB1	1:f:128:ASP:HB3	2.01	0.42
1:f:660:LEU:HA	1:f:663:GLU:HB3	2.02	0.42
1:f:663:GLU:O	1:f:667:ASN:HB2	2.19	0.42
1:g:587:THR:HG23	1:g:590:ASP:HB2	1.99	0.42
1:h:354:GLY:O	1:h:356:CYS:N	2.52	0.42
1:i:65:VAL:CG1	1:i:110:THR:HG22	2.50	0.42
1:i:152:ILE:HD13	1:i:152:ILE:N	2.35	0.42
1:i:180:LYS:C	1:i:182:CYS:H	2.25	0.42
1:i:594:ASN:O	1:i:595:SER:C	2.62	0.42
1:j:63:ASN:N	1:j:64:PRO:HD2	2.34	0.42
1:j:768:MET:HE3	1:j:768:MET:HB3	1.81	0.42
1:k:133:ASN:ND2	1:k:133:ASN:H	2.17	0.42
1:k:251:VAL:HG23	1:k:254:GLN:HE21	1.81	0.42
1:k:252:THR:O	1:k:253:VAL:C	2.63	0.42
1:l:5:GLU:C	1:l:7:ILE:HD12	2.44	0.42
1:l:180:LYS:C	1:l:182:CYS:H	2.26	0.42
1:m:217:ASP:OD2	1:m:218:ALA:C	2.63	0.42
1:m:341:GLU:HG2	1:m:370:LYS:HD3	2.02	0.42
1:m:796:LYS:HE3	1:m:800:GLU:OE2	2.19	0.42
1:A:335:LYS:HB3	1:A:372:GLU:O	2.20	0.42
1:A:709:LEU:HD13	1:m:701:LYS:HG3	2.01	0.42
1:B:217:ASP:OD1	1:B:257:GLU:O	2.37	0.42
1:C:194:GLU:HG2	1:C:195:GLU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:474:ARG:HH22	1:D:384:GLN:HG2	1.84	0.42
1:C:579:VAL:O	1:C:583:VAL:HG23	2.19	0.42
1:C:802:LEU:HB2	1:C:806:THR:HG21	2.02	0.42
1:C:807:ILE:HD13	1:D:806:THR:CG2	2.49	0.42
1:D:182:CYS:SG	1:D:208:VAL:CB	3.08	0.42
1:E:13:TYR:N	1:E:13:TYR:CD1	2.88	0.42
1:E:796:LYS:C	1:E:799:THR:HG22	2.44	0.42
1:G:20:ASP:HB2	1:G:49:ARG:HD3	2.01	0.42
1:G:135:ASP:HB3	1:G:136:LYS:H	1.65	0.42
1:H:13:TYR:N	1:H:13:TYR:HD1	2.18	0.42
1:H:205:LEU:HD22	1:H:211:GLU:HB2	2.02	0.42
1:H:354:GLY:O	1:H:356:CYS:N	2.53	0.42
1:H:573:LYS:HD2	1:I:542:ALA:HB2	2.02	0.42
1:H:687:ARG:O	1:H:690:ARG:HB3	2.20	0.42
1:I:175:ARG:HA	1:I:196:TRP:O	2.20	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:56:ARG:HD2	1:K:99:LEU:CD2	2.50	0.42
1:K:90:ILE:HD12	1:K:90:ILE:C	2.44	0.42
1:K:481:VAL:O	1:K:481:VAL:CG1	2.68	0.42
1:K:589:ASP:HB2	1:L:665:THR:HG21	2.02	0.42
1:L:196:TRP:CE3	1:L:196:TRP:HA	2.55	0.42
1:M:14:HIS:O	1:M:53:VAL:O	2.37	0.42
1:M:123:LEU:HA	1:M:158:GLU:HA	2.02	0.42
1:M:273:ILE:HG23	1:M:310:LEU:HD11	2.02	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:HG2	1:N:399:ARG:HH11	1.84	0.42
1:N:496:THR:CG2	1:N:496:THR:O	2.68	0.42
1:N:540:GLN:HB2	1:N:642:SER:HB3	2.02	0.42
1:O:67:ARG:CD	1:O:108:ASP:HB3	2.50	0.42
1:O:332:LEU:CD2	1:O:407:MET:HB2	2.47	0.42
1:O:714:MET:HE3	1:O:714:MET:HA	2.02	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:56:ARG:HD2	1:Q:99:LEU:HD21	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:533:ASP:OD1	1:Q:533:ASP:N	2.52	0.42
1:R:354:GLY:O	1:S:328:GLU:HG3	2.18	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:16:ILE:HA	1:S:34:THR:HG1	1.84	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:72:SER:OG	1:T:102:GLY:O	2.37	0.42
1:T:279:ARG:O	1:T:323:VAL:N	2.51	0.42
1:U:164:GLN:HB3	1:U:204:TYR:HA	2.02	0.42
1:U:408:LEU:HD12	1:U:408:LEU:N	2.28	0.42
1:U:654:LEU:HD11	1:V:662:ILE:HG21	2.01	0.42
1:U:766:ARG:O	1:U:770:LEU:HB2	2.19	0.42
1:V:19:LEU:HD23	1:V:32:PRO:HB2	2.01	0.42
1:V:70:GLN:HB3	1:V:104:VAL:H	1.85	0.42
1:V:360:ARG:CG	1:V:361:GLY:N	2.82	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: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:1:MET:HE1	1:a:47:PRO:HB3	1.95	0.42
1:a:339:PRO:HD2	1:a:370:LYS:HB3	2.02	0.42
1:a:394:LYS:HG2	1:b:329:GLN:CG	2.40	0.42
1:a:534:HIS:CD2	1:b:654:LEU:HG	2.55	0.42
1:a:549:LEU:HD12	1:a:552:ARG:HA	2.02	0.42
1:b:119:THR:HG22	1:b:120:ALA:H	1.85	0.42
1:b:660:LEU:HA	1:b:663:GLU:CB	2.50	0.42
1:c:273:ILE:CG2	1:c:310:LEU:HD11	2.49	0.42
1:c:660:LEU:HA	1:c:663:GLU:CB	2.50	0.42
1:d:62:ALA:C	1:d:93:ALA:HB2	2.44	0.42
1:d:267:VAL:O	1:d:268:LEU:HB2	2.19	0.42
1:d:734:ARG:HG2	1:e:742:LEU:HD12	2.01	0.42
1:e:288:MET:HE2	1:e:288:MET:HB3	1.91	0.42
1:e:330:GLN:CD	1:e:379:ALA:HB3	2.44	0.42
1:e:542:ALA:HB3	1:e:639:ASP:HB2	2.00	0.42
1:e:729:ARG:HB2	1:e:729:ARG:CZ	2.50	0.42
1:f:124:LYS:O	1:f:156:GLU:HB3	2.19	0.42
1:f:205:LEU:HD22	1:f:211:GLU:HB2	2.02	0.42
1:f:327:SER:O	1:f:331:GLY:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:421:SER:O	1:f:422:GLY:C	2.63	0.42
1:g:220:ILE:O	1:g:253:VAL:HG22	2.20	0.42
1:g:759:LEU:CD1	1:h:764:LYS:HB3	2.46	0.42
1:h:57:HIS:O	1:h:99:LEU:HD11	2.20	0.42
1:h:183:PHE:HD2	1:h:184:ASP:N	2.17	0.42
1:h:206:PRO:HB2	1:h:209:PHE:CD2	2.55	0.42
1:j:167:VAL:HG22	1:j:201:VAL:HA	2.01	0.42
1:k:128:ASP:HB2	1:k:155:LYS:HB3	2.02	0.42
1:k:243:HIS:NE2	1:k:249:TRP:CD2	2.82	0.42
1:k:334:LEU:HD23	1:k:357:TRP:O	2.20	0.42
1:k:341:GLU:HG2	1:k:370:LYS:HD3	2.01	0.42
1:l:13:TYR:N	1:l:13:TYR:HD1	2.18	0.42
1:m:36:ILE:HD13	1:m:99:LEU:CD1	2.50	0.42
1:m:402:ILE:HD13	1:m:402:ILE:N	2.34	0.42
1:A:224:LYS:C	1:A:272:PRO:HD3	2.45	0.42
1:A:332:LEU:HD11	1:A:407:MET:HB3	2.01	0.42
1:B:85:HIS:NE2	1:B:102:GLY:HA3	2.35	0.42
1:B:419:LEU:CD2	1:B:422:GLY:H	2.32	0.42
1:B:540:GLN:O	1:B:641:GLN:HG2	2.18	0.42
1:B:603:VAL:HG21	1:B:638:VAL:HG21	2.02	0.42
1:C:324:TYR:HB2	1:C:365:TYR:O	2.20	0.42
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:38:GLN:H	1:D:38:GLN:HG2	1.59	0.42
1:D:152:ILE:H	1:D:152:ILE:CD1	2.33	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:273:ILE:CD1	1:E:316:LEU:HD11	2.44	0.42
1:E:345:SER:C	1:E:347:GLU:H	2.28	0.42
1:E:387:GLY:HA3	1:E:402:ILE:CG2	2.42	0.42
1:F:287:PRO:O	1:F:295:GLN:HB2	2.20	0.42
1:F:533:ASP:OD1	1:F:588:PHE:N	2.43	0.42
1:G:16:ILE:HB	1:G:51:VAL:HB	2.01	0.42
1:G:226:ALA:O	1:G:269:GLY:HA2	2.20	0.42
1:G:273:ILE:HD11	1:G:308:PHE:HD2	1.85	0.42
1:G:382:LEU:H	1:G:405:THR:HA	1.84	0.42
1:G:394:LYS:HG2	1:H:329:GLN:CG	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:465:ASN:ND2	1:J:520:PRO:HD2	2.35	0.42
1:K:806:THR:O	1:K:810:LEU:HB2	2.20	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:383:ASP:O	1:L:384:GLN:C	2.63	0.42
1:L:596:ALA:O	1:L:600:ARG:HB2	2.19	0.42
1:M:33:LYS:HA	1:M:101:PRO:HG3	2.01	0.42
1:M:294:ASN:ND2	1:M:313:GLY:CA	2.80	0.42
1:M:524:THR:HA	1:M:542:ALA:HA	2.02	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
1:O:495:PHE:CB	1:O:514:LEU:HD11	2.44	0.42
1:P:676:GLU:O	1:P:677:ALA:C	2.63	0.42
1:Q:234:ASN:N	1:Q:234:ASN:ND2	2.68	0.42
1:Q:340:LEU:C	1:Q:341:GLU:HG3	2.45	0.42
1:R:116:LEU:O	1:R:117:PRO:C	2.62	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:T:734:ARG:HG2	1:U:742:LEU:HD12	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:V:69:THR:HA	1:V:106:GLU:HB3	2.00	0.42
1:V:564:VAL:CG2	1:V:631:ASN:ND2	2.82	0.42
1:X:58:TYR:CG	1:X:98:PRO:HA	2.55	0.42
1:X:135:ASP:HB3	1:X:136:LYS:H	1.58	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:169:LYS:H	1:a:201:VAL:HG12	1.85	0.42
1:a:334:LEU:C	1:a:334:LEU:HD23	2.45	0.42
1:a:524:THR:HA	1:a:542:ALA:HA	2.01	0.42
1:a:600:ARG:HE	1:a:600:ARG:HB3	1.74	0.42
1:a:651:ARG:HE	1:a:651:ARG:HB2	1.65	0.42
1:b:49:ARG:NH2	1:c:10:ILE:HG12	2.35	0.42
1:b:419:LEU:HD12	1:b:494:GLN:NE2	2.31	0.42
1:c:177:ARG:HB3	1:c:210:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:276:LEU:N	1:d:280:HIS:HB2	2.34	0.42
1:d:398:VAL:N	1:e:384:GLN:OE1	2.38	0.42
1:e:13:TYR:N	1:e:13:TYR:CD1	2.88	0.42
1:e:79:GLY:O	1:e:80:GLN:HG3	2.19	0.42
1:e:87:ASP:CG	1:e:88:GLN:N	2.78	0.42
1:e:176:LEU:HA	1:e:210:GLU:O	2.20	0.42
1:e:227:LEU:HD23	1:e:227:LEU:HA	1.91	0.42
1:f:51:VAL:O	1:f:53:VAL:HG23	2.20	0.42
1:f:182:CYS:SG	1:f:208:VAL:HG23	2.58	0.42
1:f:235:PHE:HE1	1:f:237:ASP:HA	1.85	0.42
1:f:387:GLY:CA	1:f:402:ILE:HG22	2.42	0.42
1:g:175:ARG:HA	1:g:196:TRP:O	2.20	0.42
1:h:752:ALA:O	1:h:756:GLU:HB2	2.20	0.42
1:j:282:CYS:SG	1:j:302:VAL:HG23	2.60	0.42
1:k:206:PRO:HB2	1:k:209:PHE:CD2	2.55	0.42
1:k:236:ARG:HB3	1:k:236:ARG:NH1	2.35	0.42
1:k:342:GLU:C	1:k:344:GLU:N	2.78	0.42
1:k:664:ILE:O	1:k:668:SER:HB2	2.19	0.42
1:l:120:ALA:O	1:l:161:GLU:HA	2.20	0.42
1:m:150:THR:HG23	1:m:151:TYR:N	2.35	0.42
1:A:586:VAL:HG13	1:A:590:ASP:OD2	2.20	0.42
1:B:164:GLN:CD	1:B:204:TYR:CB	2.93	0.42
1:B:245:THR:HG22	1:B:246:GLY:N	2.34	0.42
1:B:252:THR:H	1:B:254:GLN:HE21	1.62	0.42
1:B:391:GLN:HA	1:B:397:LYS:O	2.20	0.42
1:B:599:ILE:CD1	1:B:599:ILE:N	2.82	0.42
1:C:235:PHE:CE1	1:C:264:TYR:CE1	3.08	0.42
1:D:122:HIS:O	1:D:159:VAL:N	2.38	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:288:MET:HE2	1:E:288:MET:HB3	1.95	0.42
1:E:725:GLU:O	1:E:728:SER:HB3	2.20	0.42
1:F:589:ASP:HB2	1:G:665:THR:HG21	2.01	0.42
1:G:36:ILE:HG21	1:G:99:LEU:HB2	2.02	0.42
1:G:337:LEU:HD23	1:G:337:LEU:N	2.35	0.42
1:G:339:PRO:HG3	1:H:278:PRO:HB3	2.01	0.42
1:G:398:VAL:HG11	1:G:415:TRP:CD2	2.55	0.42
1:H:235:PHE:CE1	1:H:264:TYR:CE1	3.08	0.42
1:H:279:ARG:O	1:H:322:ASP:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:TYR:CD1	1:H:281:TYR:C	2.97	0.42
1:I:230:ARG:HH11	1:I:230:ARG:HB3	1.85	0.42
1:I:606:PHE:HA	1:I:622:ALA:HA	2.02	0.42
1:J:2:ALA:HB3	1:J:46:ALA:O	2.20	0.42
1:J:5:GLU:OE1	1:J:48:VAL:HG11	2.19	0.42
1:J:150:THR:HG23	1:J:151:TYR:N	2.34	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:623:ARG:CG	1:J:624:ASP:H	2.33	0.42
1:K:697:SER:CA	1:L:706:LEU:HD23	2.49	0.42
1:L:3:THR:HG22	1:L:50:MET:HE2	2.01	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:M:54:PRO:CB	1:M:55:PRO:HD3	2.37	0.42
1:M:58:TYR:CD1	1:M:98:PRO:HA	2.54	0.42
1:M:283:VAL:O	1:M:317:GLU:N	2.48	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:330:GLN:CG	1:R:379:ALA:HB3	2.44	0.42
1:R:336:ALA:H	1:R:374:VAL:HG23	1.85	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:S:472:ASP:OD1	1:S:472:ASP:C	2.63	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:U:354:GLY:C	1:V:328:GLU:HB3	2.44	0.42
1:V:3:THR:O	1:V:50:MET:HE1	2.20	0.42
1:V:151:TYR:N	1:V:151:TYR:CD1	2.88	0.42
1:V:328:GLU:HG3	1:V:329:GLN:N	2.28	0.42
1:V:573:LYS:HE3	1:W:522:PHE:CE1	2.54	0.42
1:W:115:VAL:HA	1:W:147:GLY:O	2.20	0.42
1:W:276:LEU:O	1:W:277:GLY:C	2.63	0.42
1:W:398:VAL:HG12	1:W:491:PRO:HB3	2.02	0.42
1:X:245:THR:C	1:X:247:GLU:H	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:92:LEU:HD12	1:a:94:GLN:CD	2.44	0.42
1:a:183:PHE:CD2	1:a:190:ARG:HD3	2.55	0.42
1:a:227:LEU:HB2	1:a:251:VAL:HG12	2.02	0.42
1:a:273:ILE:HG12	1:a:310:LEU:HD11	2.01	0.42
1:b:58:TYR:CD1	1:b:98:PRO:HA	2.55	0.42
1:b:578:ARG:HB3	1:b:602:ALA:O	2.19	0.42
1:c:703:ARG:CZ	1:c:703:ARG:HB2	2.50	0.42
1:d:280:HIS:HA	1:d:322:ASP:HA	2.02	0.42
1:d:326:LEU:O	1:d:328:GLU:N	2.53	0.42
1:d:333:LEU:HD12	1:d:359:ILE:HD11	2.02	0.42
1:d:419:LEU:CD2	1:d:422:GLY:H	2.33	0.42
1:e:87:ASP:CG	1:e:88:GLN:H	2.28	0.42
1:e:116:LEU:C	1:e:118:ASN:H	2.28	0.42
1:f:490:ASP:O	1:f:491:PRO:C	2.63	0.42
1:f:567:PHE:CE2	1:f:568:VAL:HG13	2.54	0.42
1:g:196:TRP:HA	1:g:196:TRP:CE3	2.55	0.42
1:g:272:PRO:HB3	1:g:309:PHE:CE2	2.54	0.42
1:g:325:VAL:O	1:g:325:VAL:HG13	2.19	0.42
1:g:336:ALA:HA	1:g:356:CYS:CB	2.50	0.42
1:g:558:ALA:O	1:g:561:LEU:HB2	2.19	0.42
1:h:260:VAL:C	1:h:262:ASP:N	2.78	0.42
1:h:285:LEU:HB2	1:h:315:ARG:HG2	2.02	0.42
1:i:20:ASP:HB2	1:i:49:ARG:HD3	2.02	0.42
1:i:229:LEU:HD23	1:i:266:GLU:HA	2.01	0.42
1:j:396:GLY:CA	1:k:405:THR:HG23	2.49	0.42
1:j:468:VAL:HG13	1:j:514:LEU:O	2.19	0.42
1:k:3:THR:CG2	1:k:50:MET:CE	2.97	0.42
1:l:56:ARG:HD2	1:l:99:LEU:HD22	2.01	0.42
1:l:99:LEU:HD12	1:l:99:LEU:N	2.34	0.42
1:l:113:GLN:O	1:l:114:VAL:HG13	2.20	0.42
1:l:199:ARG:NH2	1:l:238:LEU:HD12	2.35	0.42
1:l:382:LEU:H	1:l:405:THR:HG22	1.84	0.42
1:m:332:LEU:HD11	1:m:407:MET:HB3	2.01	0.42
1:A:122:HIS:CE1	1:A:142:GLU:OE2	2.73	0.41
1:A:165:ALA:CB	1:A:174:LEU:HD11	2.50	0.41
1:A:335:LYS:HZ3	1:A:335:LYS:CB	2.32	0.41
1:A:392:ASP:O	1:A:396:GLY:N	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:352:GLN:O	1:C:353:ALA:C	2.62	0.41
1:C:363:LEU:HD13	1:C:364:GLU:N	2.34	0.41
1:D:90:ILE:HD12	1:D:154:GLN:HB2	2.02	0.41
1:D:135:ASP:HB3	1:D:136:LYS:H	1.52	0.41
1:D:239:ARG:HH21	1:D:257:GLU:HB3	1.83	0.41
1:E:243:HIS:HE2	1:E:249:TRP:CD1	2.37	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:G:245:THR:OG1	1:H:170:GLN:OE1	2.38	0.41
1:G:337:LEU:HD23	1:G:337:LEU:H	1.85	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:H:194:GLU:HG2	1:H:195:GLU:N	2.34	0.41
1:H:379:ALA:HB1	1:H:406:TYR:O	2.20	0.41
1:H:539:LEU:HA	1:H:642:SER:O	2.19	0.41
1:I:220:ILE:HG13	1:I:256:THR:HA	2.00	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:527:ILE:CD1	1:J:541:LEU:HG	2.50	0.41
1:J:777:LEU:HD11	1:K:783:LYS:HB2	2.02	0.41
1:K:529:ILE:CD1	1:K:583:VAL:HG11	2.46	0.41
1:L:198:VAL:O	1:L:198:VAL:HG12	2.19	0.41
1:L:220:ILE:O	1:L:253:VAL:HG22	2.20	0.41
1:M:389:TYR:CE1	1:M:417:LYS:HG2	2.55	0.41
1:M:579:VAL:CG2	1:M:599:ILE:HD12	2.49	0.41
1:N:164:GLN:CD	1:N:204:TYR:HB2	2.45	0.41
1:N:490:ASP:O	1:N:491:PRO:C	2.63	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:56:ARG:HH11	1:O:99:LEU:HD23	1.83	0.41
1:O:130:GLU:HB2	1:O:136:LYS:CB	2.50	0.41
1:O:134:GLY:O	1:O:135:ASP:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:197:LEU:HD12	1:P:199:ARG:CZ	2.50	0.41
1:P:601:MET:HE2	1:P:601:MET:HB3	1.64	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:60:ILE:HD13	1:R:93:ALA:HA	2.01	0.41
1:R:651:ARG:HE	1:R:651:ARG:HB2	1.74	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:N	1:S:402:ILE:CD1	2.83	0.41
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:T:802:LEU:O	1:T:803:GLY:C	2.63	0.41
1:U:90:ILE:HD12	1:U:90:ILE:O	2.20	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:V:36:ILE:O	1:V:36:ILE:CD1	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:90:ILE:HD12	1:Y:90:ILE:C	2.45	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:Z:138:MET:HE1	1:a:148:PRO:HG3	2.01	0.41
1:a:385:ASN:HD22	1:a:385:ASN:HA	1.58	0.41
1:b:38:GLN:H	1:b:38:GLN:HG2	1.64	0.41
1:b:151:TYR:CD2	1:b:152:ILE:HD13	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:1:MET:HE1	1:c:47:PRO:HB3	1.95	0.41
1:c:230:ARG:HB2	1:c:265:GLU:HB3	2.01	0.41
1:c:235:PHE:CE1	1:c:237:ASP:HA	2.55	0.41
1:d:152:ILE:CD1	1:d:156:GLU:OE2	2.66	0.41
1:e:165:ALA:HB2	1:e:211:GLU:OE2	2.19	0.41
1:f:335:LYS:HB3	1:f:372:GLU:O	2.20	0.41
1:f:601:MET:HE2	1:f:601:MET:HB3	1.97	0.41
1:h:55:PRO:O	1:h:56:ARG:HG2	2.20	0.41
1:h:279:ARG:O	1:h:323:VAL:N	2.43	0.41
1:h:504:ARG:HA	1:h:504:ARG:HD3	1.74	0.41
1:i:145:PHE:HE2	1:i:150:THR:HA	1.85	0.41
1:i:332:LEU:HG	1:i:360:ARG:HD3	2.01	0.41
1:i:623:ARG:CG	1:i:624:ASP:H	2.32	0.41
1:k:109:ILE:HD12	1:k:153:PRO:CG	2.50	0.41
1:k:164:GLN:NE2	1:k:204:TYR:HB2	2.34	0.41
1:k:327:SER:CA	1:k:331:GLY:HA3	2.50	0.41
1:k:476:LYS:CE	1:l:485:GLU:HG3	2.50	0.41
1:l:418:GLU:OE2	1:l:452:ARG:NH1	2.53	0.41
1:m:13:TYR:CD1	1:m:13:TYR:N	2.88	0.41
1:m:171:ASN:O	1:m:216:VAL:HG12	2.19	0.41
1:m:260:VAL:CA	1:m:264:TYR:H	2.27	0.41
1:m:286:ASP:N	1:m:287:PRO:HD3	2.35	0.41
1:m:337:LEU:HD23	1:m:337:LEU:N	2.35	0.41
1:m:343:GLY:HA2	1:m:348:LYS:HA	2.01	0.41
1:m:479:ARG:NH1	1:m:487:VAL:HG12	2.35	0.41
1:A:8:ILE:HA	1:A:40:ASN:HD22	1.85	0.41
1:A:245:THR:C	1:A:247:GLU:H	2.27	0.41
1:A:465:ASN:HB3	1:A:519:GLY:HA3	2.01	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:B:252:THR:N	1:B:254:GLN:NE2	2.58	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:D:24:ASN:ND2	1:D:30:VAL:HB	2.34	0.41
1:D:289:GLY:HA3	1:D:290:PRO:HD2	1.82	0.41
1:E:217:ASP:OD1	1:E:218:ALA:N	2.54	0.41
1:G:17:HIS:HB2	1:G:48:VAL:CG1	2.50	0.41
1:H:13:TYR:N	1:H:13:TYR:CD1	2.88	0.41
1:H:70:GLN:HG2	1:H:104:VAL:H	1.83	0.41
1:H:339:PRO:HG3	1:I:278:PRO:HB3	2.01	0.41
1:H:465:ASN:ND2	1:H:520:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:505:PRO:HD2	1:H:507:ARG:HH12	1.85	0.41
1:I:227:LEU:HD13	1:I:229:LEU:HD21	2.02	0.41
1:I:236:ARG:HB3	1:I:236:ARG:HH11	1.85	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:311:GLN:HB3	1:J:312:PRO:CD	2.36	0.41
1:J:388:ILE:HD13	1:J:388:ILE:H	1.84	0.41
1:J:415:TRP:C	1:J:455:THR:HG22	2.45	0.41
1:J:601:MET:HG2	1:J:622:ALA:CB	2.45	0.41
1:K:65:VAL:HA	1:K:110:THR:HA	2.02	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
1:O:326:LEU:HA	1:O:326:LEU:HD23	1.84	0.41
1:P:13:TYR:HD1	1:P:13:TYR:N	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:P:768:MET:HE3	1:P:768:MET:HB3	1.89	0.41
1:Q:67:ARG:CZ	1:Q:108:ASP:HB3	2.49	0.41
1:T:338:GLN:OE1	1:U:278:PRO:HB2	2.20	0.41
1:U:227:LEU:HD23	1:U:227:LEU:HA	1.84	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:63:ASN:N	1:X:64:PRO:HD2	2.35	0.41
1:X:283:VAL:HG22	1:X:301:VAL:HG12	2.01	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:Z:654:LEU:HD11	1:a:662:ILE:HG21	2.01	0.41
1:a:338:GLN:CB	1:a:339:PRO:CD	2.96	0.41
1:b:334:LEU:CD1	1:b:377:ARG:NH2	2.78	0.41
1:c:128:ASP:OD1	1:c:131:ASP:HB3	2.20	0.41
1:c:540:GLN:HB2	1:c:642:SER:HB3	2.01	0.41
1:c:747:LYS:HD3	1:c:747:LYS:HA	1.81	0.41
1:d:63:ASN:N	1:d:64:PRO:HD2	2.35	0.41
1:d:77:ILE:HG12	1:d:80:GLN:H	1.79	0.41
1:d:342:GLU:HA	1:d:350:SER:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:152:ILE:HD11	1:e:155:LYS:HZ3	1.84	0.41
1:e:518:LEU:HA	1:e:547:PHE:CD1	2.53	0.41
1:f:113:GLN:OE1	1:f:150:THR:N	2.53	0.41
1:g:67:ARG:O	1:g:91:ARG:HB2	2.19	0.41
1:g:144:LEU:H	1:g:144:LEU:HD12	1.85	0.41
1:g:531:THR:OG1	1:g:535:ALA:HB3	2.20	0.41
1:h:217:ASP:HB2	1:h:258:ALA:HA	2.02	0.41
1:h:235:PHE:HE1	1:h:237:ASP:HA	1.85	0.41
1:h:468:VAL:HG22	1:h:515:CYS:HA	2.01	0.41
1:i:18:VAL:HG21	1:i:33:LYS:HE3	2.02	0.41
1:i:185:ARG:HG2	1:i:209:PHE:CE2	2.54	0.41
1:i:291:ASP:C	1:i:293:LYS:N	2.76	0.41
1:i:335:LYS:HE2	1:i:335:LYS:HB2	1.94	0.41
1:i:697:SER:CA	1:j:706:LEU:HD23	2.47	0.41
1:j:45:PHE:HB2	1:j:48:VAL:CG2	2.50	0.41
1:j:61:VAL:HG13	1:j:65:VAL:CG2	2.50	0.41
1:j:68:ASP:OD1	1:j:68:ASP:C	2.61	0.41
1:j:289:GLY:HA3	1:j:290:PRO:HD2	1.87	0.41
1:j:473:TYR:CE2	1:k:461:ARG:HB3	2.56	0.41
1:j:490:ASP:OD1	1:j:491:PRO:HD2	2.20	0.41
1:j:692:LYS:HG2	1:j:696:GLN:HE21	1.86	0.41
1:j:759:LEU:CD1	1:k:764:LYS:HB3	2.50	0.41
1:k:5:GLU:C	1:k:7:ILE:HD12	2.44	0.41
1:k:220:ILE:C	1:k:222:THR:N	2.78	0.41
1:k:230:ARG:HB3	1:k:230:ARG:NH1	2.29	0.41
1:k:235:PHE:CZ	1:k:264:TYR:CE1	3.08	0.41
1:k:495:PHE:HB3	1:k:514:LEU:HD11	2.02	0.41
1:k:808:ARG:O	1:k:812:VAL:HG23	2.21	0.41
1:l:311:GLN:HB2	1:l:314:GLU:HG3	2.02	0.41
1:m:128:ASP:OD1	1:m:131:ASP:HB3	2.20	0.41
1:m:220:ILE:O	1:m:220:ILE:HD12	2.20	0.41
1:m:294:ASN:ND2	1:m:313:GLY:CA	2.83	0.41
1:m:328:GLU:OE1	1:m:361:GLY:O	2.38	0.41
1:m:501:SER:HA	1:m:507:ARG:O	2.20	0.41
1:A:329:GLN:CG	1:m:394:LYS:HG2	2.37	0.41
1:B:688:LEU:C	1:B:690:ARG:N	2.75	0.41
1:B:747:LYS:HD3	1:B:747:LYS:HA	1.70	0.41
1:C:120:ALA:HB3	1:C:162:ILE:HG13	2.01	0.41
1:C:122:HIS:HB3	1:C:159:VAL:HB	2.02	0.41
1:C:268:LEU:HD13	1:C:269:GLY:H	1.85	0.41
1:C:398:VAL:HG11	1:C:415:TRP:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:10:ILE:H	1:E:10:ILE:CD1	2.21	0.41
1:E:121:LEU:HB2	1:E:145:PHE:CB	2.47	0.41
1:E:310:LEU:H	1:E:310:LEU:HD12	1.85	0.41
1:E:336:ALA:O	1:E:371:VAL:HG13	2.20	0.41
1:F:123:LEU:CD1	1:F:143:TRP:HB2	2.49	0.41
1:F:228:HIS:HB3	1:F:267:VAL:HB	2.02	0.41
1:G:36:ILE:O	1:G:37:ARG:HG3	2.21	0.41
1:H:697:SER:CA	1:I:706:LEU:HD23	2.43	0.41
1:I:197:LEU:HD22	1:I:197:LEU:HA	1.83	0.41
1:I:506:LYS:HD3	1:I:506:LYS:HA	1.94	0.41
1:I:745:LYS:HG3	1:J:753:ILE:HD11	1.96	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:HB2	1:J:729:ARG:CZ	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:474:ARG:CG	1:K:492:GLU:HB2	2.40	0.41
1:K:496:THR:O	1:K:496:THR:HG23	2.20	0.41
1:K:676:GLU:HA	1:K:676:GLU:OE1	2.20	0.41
1:L:13:TYR:N	1:L:13:TYR:CD1	2.88	0.41
1:L:549:LEU:HG	1:L:561:LEU:HD11	2.01	0.41
1:M:127:LEU:HB3	1:N:64:PRO:HD3	2.02	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:M:715:ALA:O	1:M:716:VAL:C	2.62	0.41
1:M:750:ALA:C	1:M:752:ALA:H	2.27	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: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:P:750:ALA:C	1:P:752:ALA:H	2.27	0.41
1:Q:9:ARG:CZ	1:Q:15:TYR:HB3	2.51	0.41
1:Q:284:ILE:N	1:Q:284:ILE:CD1	2.82	0.41
1:Q:338:GLN:CB	1:Q:339:PRO:CD	2.95	0.41
1:Q:808:ARG:HE	1:R:809:ASP:HB2	1.85	0.41
1:R:462:VAL:HB	1:R:485:GLU:O	2.20	0.41
1:S:60:ILE:HD13	1:S:93:ALA:CA	2.49	0.41
1:S:123:LEU:HG	1:S:143:TRP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:151:TYR:HD2	1:S:152:ILE:HD11	1.75	0.41
1:S:345:SER:C	1:S:347:GLU:H	2.28	0.41
1:S:490:ASP:H	1:S:493:GLU:CG	2.28	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:U:669:GLN:O	1:U:670:GLU:C	2.63	0.41
1:V:165:ALA:CB	1:V:174:LEU:HD11	2.49	0.41
1:V:490:ASP:O	1:V:491:PRO:C	2.63	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:220:ILE:C	1:X:222:THR:H	2.29	0.41
1:X:398:VAL:HG11	1:X:415:TRP:CE3	2.55	0.41
1:X:426:LEU:C	1:X:428:ASN:N	2.79	0.41
1:X:532:ALA:HB1	1:Y:593:LYS:HE2	2.03	0.41
1:Y:175:ARG:NH2	1:Y:263:VAL:HG13	2.27	0.41
1:Y:183:PHE:HE2	1:Y:188:LYS:HA	1.85	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:C	2.62	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:11:PRO:CA	1:a:38:GLN:HA	2.41	0.41
1:a:17:HIS:HA	1:a:49:ARG:O	2.20	0.41
1:a:60:ILE:HG22	1:a:67:ARG:H	1.84	0.41
1:a:262:ASP:HB3	1:a:264:TYR:CZ	2.52	0.41
1:a:273:ILE:HG12	1:a:310:LEU:CD1	2.51	0.41
1:a:330:GLN:CD	1:a:407:MET:HG3	2.45	0.41
1:b:83:LEU:HD12	1:b:87:ASP:HB2	2.03	0.41
1:b:127:LEU:HB3	1:c:64:PRO:HD3	2.02	0.41
1:b:283:VAL:HG23	1:b:321:GLN:HE22	1.85	0.41
1:c:60:ILE:H	1:c:60:ILE:CD1	2.23	0.41
1:c:414:LEU:HB3	1:c:455:THR:HG21	2.02	0.41
1:c:788:ALA:HB1	1:d:794:LYS:HB2	2.00	0.41
1:d:36:ILE:O	1:d:37:ARG:CG	2.68	0.41
1:d:61:VAL:HG13	1:d:65:VAL:CG2	2.50	0.41
1:e:58:TYR:HD1	1:e:99:LEU:HD11	1.86	0.41
1:e:100:TYR:HB3	1:e:101:PRO:HD2	2.03	0.41
1:e:261:PRO:HD2	1:e:264:TYR:HD1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:363:LEU:HD22	1:e:363:LEU:HA	1.88	0.41
1:e:387:GLY:HA3	1:e:402:ILE:CG2	2.43	0.41
1:f:235:PHE:CZ	1:f:264:TYR:CE1	3.09	0.41
1:f:807:ILE:HD11	1:g:806:THR:HG21	2.03	0.41
1:g:310:LEU:H	1:g:310:LEU:HD12	1.85	0.41
1:g:531:THR:HA	1:g:583:VAL:O	2.20	0.41
1:h:359:ILE:N	1:h:359:ILE:CD1	2.74	0.41
1:h:697:SER:HA	1:i:706:LEU:HD23	2.01	0.41
1:i:123:LEU:CD1	1:i:143:TRP:HB2	2.50	0.41
1:k:90:ILE:N	1:k:90:ILE:CD1	2.75	0.41
1:k:123:LEU:CG	1:k:143:TRP:HB2	2.50	0.41
1:l:67:ARG:CD	1:l:108:ASP:HB3	2.51	0.41
1:l:235:PHE:CE1	1:l:264:TYR:CE1	3.08	0.41
1:l:327:SER:HB2	1:l:331:GLY:HA2	2.01	0.41
1:l:727:GLU:HG3	1:m:735:ILE:HD13	2.02	0.41
1:l:777:LEU:HD11	1:m:783:LYS:HB2	2.02	0.41
1:m:74:LEU:HD22	1:m:100:TYR:CE2	2.54	0.41
1:m:490:ASP:O	1:m:491:PRO:C	2.63	0.41
1:A:251:VAL:CG2	1:A:254:GLN:NE2	2.84	0.41
1:A:338:GLN:OE1	1:B:278:PRO:HB2	2.20	0.41
1:A:368:SER:O	1:A:369:ALA:C	2.63	0.41
1:A:662:ILE:HD11	1:m:653:ALA:HB3	1.98	0.41
1:B:8:ILE:HA	1:B:40:ASN:HD22	1.86	0.41
1:B:115:VAL:H	1:B:118:ASN:ND2	2.16	0.41
1:B:365:TYR:CE2	1:B:367:PRO:HA	2.55	0.41
1:D:564:VAL:HG22	1:D:631:ASN:ND2	2.35	0.41
1:D:663:GLU:O	1:D:666:THR:HG22	2.20	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:452:ARG:NH1	1:G:452:ARG:HG3	2.36	0.41
1:H:106:GLU:O	1:H:107:LYS:HD2	2.20	0.41
1:H:471:TYR:CE1	1:I:484:PRO:HG2	2.56	0.41
1:I:53:VAL:HG11	1:I:56:ARG:HE	1.84	0.41
1:I:220:ILE:C	1:I:222:THR:H	2.28	0.41
1:J:116:LEU:CB	1:J:117:PRO:HD2	2.31	0.41
1:J:260:VAL:O	1:J:261:PRO:C	2.63	0.41
1:J:384:GLN:H	1:J:384:GLN:NE2	2.19	0.41
1:K:65:VAL:HA	1:K:110:THR:CA	2.50	0.41
1:K:221:LEU:HD22	1:K:256:THR:CB	2.50	0.41
1:K:285:LEU:O	1:K:286:ASP:C	2.63	0.41
1:K:332:LEU:HD11	1:K:379:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:332:LEU:HD23	1:K:358:LEU:HD11	2.01	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:L:106:GLU:CD	1:L:106:GLU:H	2.27	0.41
1:L:243:HIS:NE2	1:L:249:TRP:CE2	2.88	0.41
1:L:244:ARG:HB3	1:M:221:LEU:HD21	2.01	0.41
1:L:279:ARG:O	1:L:323:VAL:HG13	2.20	0.41
1:L:284:ILE:HD13	1:L:300:ARG:O	2.20	0.41
1:L:338:GLN:OE1	1:M:278:PRO:HB2	2.20	0.41
1:M:398:VAL:H	1:N:384:GLN:CD	2.28	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:288:MET:HE2	1:O:288:MET:HB3	1.93	0.41
1:O:579:VAL:CG2	1:O:599:ILE:HG23	2.51	0.41
1:P:476:LYS:HE2	1:Q:485:GLU:OE1	2.20	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:Q:285:LEU:HD21	1:Q:317:GLU:HB2	2.03	0.41
1:Q:421:SER:O	1:Q:422:GLY:C	2.63	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: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:HH11	1:W:230:ARG:HB3	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
1:X:385:ASN:HD22	1:X:385:ASN:HA	1.56	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:Y:289:GLY:HA3	1:Y:290:PRO:HD2	1.90	0.41
1:Z:60:ILE:HG22	1:Z:66:SER:HB2	2.01	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:a:3:THR:HG23	1:a:50:MET:HE1	2.01	0.41
1:a:661:ALA:HA	1:a:664:ILE:HG12	2.01	0.41
1:b:19:LEU:HB3	1:b:49:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:60:ILE:N	1:b:60:ILE:CD1	2.81	0.41
1:b:70:GLN:O	1:b:70:GLN:HG3	2.20	0.41
1:c:232:LEU:HA	1:c:232:LEU:HD23	1.81	0.41
1:c:662:ILE:O	1:c:666:THR:HB	2.20	0.41
1:d:163:ILE:O	1:d:163:ILE:HD12	2.21	0.41
1:e:452:ARG:NH1	1:e:452:ARG:HG3	2.35	0.41
1:f:244:ARG:O	1:f:247:GLU:HB2	2.20	0.41
1:f:396:GLY:CA	1:g:405:THR:HG23	2.51	0.41
1:f:759:LEU:HD21	1:g:765:VAL:HG22	2.02	0.41
1:g:151:TYR:HB2	1:g:152:ILE:CD1	2.50	0.41
1:g:387:GLY:HA3	1:g:402:ILE:HA	2.01	0.41
1:g:748:ALA:O	1:g:752:ALA:HB2	2.21	0.41
1:h:230:ARG:HD3	1:h:246:GLY:O	2.21	0.41
1:h:318:ARG:HB2	1:h:321:GLN:HG2	2.02	0.41
1:h:391:GLN:HB2	1:h:398:VAL:HG22	2.02	0.41
1:h:529:ILE:HD11	1:h:537:LEU:HB2	2.00	0.41
1:h:601:MET:HE3	1:h:606:PHE:HB3	2.03	0.41
1:i:334:LEU:C	1:i:335:LYS:HG3	2.44	0.41
1:i:345:SER:C	1:i:347:GLU:H	2.28	0.41
1:j:60:ILE:H	1:j:60:ILE:CD1	2.23	0.41
1:j:67:ARG:HH21	1:j:107:LYS:HA	1.86	0.41
1:k:227:LEU:HB2	1:k:251:VAL:CG1	2.50	0.41
1:k:243:HIS:NE2	1:k:249:TRP:CE2	2.88	0.41
1:k:262:ASP:HB3	1:k:264:TYR:CZ	2.55	0.41
1:k:402:ILE:HD13	1:k:402:ILE:N	2.35	0.41
1:k:660:LEU:HA	1:k:663:GLU:HB2	2.03	0.41
1:l:116:LEU:O	1:l:117:PRO:C	2.61	0.41
1:l:199:ARG:HH21	1:l:258:ALA:HB3	1.85	0.41
1:l:220:ILE:C	1:l:220:ILE:HD12	2.46	0.41
1:A:504:ARG:HD3	1:A:504:ARG:HA	1.83	0.41
1:B:14:HIS:ND1	1:B:36:ILE:HG22	2.35	0.41
1:B:197:LEU:HD22	1:B:197:LEU:HA	1.81	0.41
1:B:335:LYS:HG2	1:B:373:VAL:HA	2.01	0.41
1:B:342:GLU:HA	1:B:350:SER:HA	2.01	0.41
1:B:379:ALA:HB2	1:B:407:MET:HB3	2.02	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:495:PHE:HB3	1:C:514:LEU:HD11	2.03	0.41
1:D:276:LEU:O	1:D:277:GLY:C	2.64	0.41
1:D:286:ASP:N	1:D:287:PRO:CD	2.83	0.41
1:D:330:GLN:CB	1:D:379:ALA:HB3	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:ALA:HB3	1:D:639:ASP:HB2	2.02	0.41
1:D:746:LEU:C	1:D:748:ALA:N	2.77	0.41
1:E:14:HIS:HD2	1:E:53:VAL:HG11	1.86	0.41
1:E:133:ASN:ND2	1:E:133:ASN:H	2.18	0.41
1:E:260:VAL:HB	1:E:263:VAL:CA	2.38	0.41
1:E:627:VAL:HG13	1:E:634:VAL:HG22	2.03	0.41
1:F:97:PHE:HA	1:F:98:PRO:HD3	1.87	0.41
1:F:354:GLY:O	1:G:328:GLU:HG3	2.20	0.41
1:F:600:ARG:O	1:F:604:PHE:HD1	2.03	0.41
1:G:6:ALA:HA	1:G:41:GLU:O	2.19	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:HA	2.21	0.41
1:G:220:ILE:HD13	1:G:252:THR:HA	2.03	0.41
1:G:260:VAL:HB	1:G:263:VAL:CA	2.44	0.41
1:H:8:ILE:HG22	1:H:40:ASN:ND2	2.36	0.41
1:H:40:ASN:HB3	1:H:42:ARG:HH11	1.86	0.41
1:H:267:VAL:O	1:H:268:LEU:HB2	2.20	0.41
1:H:363:LEU:CD1	1:H:364:GLU:H	2.34	0.41
1:H:490:ASP:O	1:H:491:PRO:C	2.62	0.41
1:H:745:LYS:CG	1:I:753:ILE:HD13	2.44	0.41
1:I:84:ARG:HH22	1:I:101:PRO:HD2	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:338:GLN:HB3	1:I:339:PRO:HD3	2.02	0.41
1:I:359:ILE:HD13	1:I:359:ILE:H	1.85	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:J:3:THR:H	1:J:50:MET:HE1	1.85	0.41
1:J:243:HIS:NE2	1:J:249:TRP:CE2	2.88	0.41
1:J:504:ARG:HA	1:J:504:ARG:HD3	1.84	0.41
1:K:176:LEU:HD23	1:K:211:GLU:HA	2.03	0.41
1:K:276:LEU:N	1:K:280:HIS:HB2	2.35	0.41
1:K:462:VAL:HG22	1:K:468:VAL:HG23	2.02	0.41
1:L:239:ARG:NH2	1:L:257:GLU:HG2	2.36	0.41
1:L:289:GLY:HA3	1:L:290:PRO:HD2	1.88	0.41
1:L:389:TYR:CZ	1:L:457:VAL:HA	2.56	0.41
1:M:177:ARG:HB2	1:M:177:ARG:HH11	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:O:38:GLN:H	1:O:38:GLN:HG2	1.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:192:THR:HG23	1:R:202:GLY:HA3	2.02	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: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: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:226:ALA:HB3	1:U:270:VAL:CG1	2.51	0.41
1:U:236:ARG:HA	1:U:241:VAL:O	2.19	0.41
1:U:332:LEU:CD2	1:U:407:MET:HB2	2.43	0.41
1:V:234:ASN:N	1:V:234:ASN:HD22	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:87:ASP:CG	1:Y:88:GLN:H	2.29	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:a:276:LEU:N	1:a:280:HIS:HB2	2.36	0.41
1:a:381:PRO:HA	1:a:405:THR:HB	2.02	0.41
1:a:382:LEU:H	1:a:405:THR:HG22	1.85	0.41
1:a:389:TYR:CZ	1:a:457:VAL:HA	2.56	0.41
1:b:100:TYR:HB3	1:b:101:PRO:HD2	2.01	0.41
1:b:329:GLN:CD	1:b:330:GLN:HG2	2.45	0.41
1:b:729:ARG:HB2	1:b:729:ARG:CZ	2.51	0.41
1:c:164:GLN:H	1:c:164:GLN:HG2	1.62	0.41
1:c:311:GLN:HB3	1:c:312:PRO:HD2	2.01	0.41
1:d:206:PRO:HB2	1:d:209:PHE:CD2	2.55	0.41
1:d:781:VAL:HG11	1:e:786:GLN:OE1	2.21	0.41
1:e:13:TYR:N	1:e:13:TYR:HD1	2.19	0.41
1:e:164:GLN:HB3	1:e:204:TYR:HA	2.02	0.41
1:e:221:LEU:HD21	1:e:256:THR:HG22	2.00	0.41
1:e:464:HIS:HA	1:e:484:PRO:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:1:MET:HE1	1:f:47:PRO:HB3	1.97	0.41
1:f:10:ILE:HG23	1:f:11:PRO:HD2	2.01	0.41
1:f:116:LEU:C	1:f:118:ASN:N	2.79	0.41
1:f:164:GLN:NE2	1:f:204:TYR:HB3	2.35	0.41
1:f:384:GLN:CD	1:f:384:GLN:H	2.28	0.41
1:g:171:ASN:O	1:g:216:VAL:CA	2.67	0.41
1:g:244:ARG:N	1:g:247:GLU:OE1	2.50	0.41
1:g:523:PHE:CD1	1:g:568:VAL:HG12	2.56	0.41
1:g:645:PRO:HG2	1:g:651:ARG:HG3	2.01	0.41
1:h:13:TYR:N	1:h:13:TYR:CD1	2.88	0.41
1:h:653:ALA:HB3	1:i:662:ILE:CD1	2.51	0.41
1:i:296:LEU:HD21	1:j:307:SER:HB3	2.00	0.41
1:i:529:ILE:HD13	1:i:583:VAL:HG11	2.00	0.41
1:j:155:LYS:HB2	1:j:155:LYS:HZ3	1.86	0.41
1:j:327:SER:H	1:j:331:GLY:HA3	1.84	0.41
1:k:196:TRP:HA	1:k:196:TRP:CE3	2.56	0.41
1:k:529:ILE:HD13	1:k:583:VAL:HG11	2.01	0.41
1:l:123:LEU:HD11	1:l:143:TRP:CD1	2.54	0.41
1:l:470:VAL:HB	1:l:479:ARG:HD2	2.01	0.41
1:m:13:TYR:N	1:m:13:TYR:HD1	2.19	0.41
1:m:527:ILE:C	1:m:527:ILE:HD12	2.45	0.41
1:A:13:TYR:N	1:A:13:TYR:CD1	2.88	0.41
1:A:218:ALA:HB3	1:A:227:LEU:HD11	2.03	0.41
1:A:340:LEU:HD23	1:A:352:GLN:HA	2.01	0.41
1:B:243:HIS:NE2	1:B:249:TRP:CD2	2.82	0.41
1:B:304:GLY:H	1:B:306:LYS:HZ2	1.65	0.41
1:B:352:GLN:O	1:B:353:ALA:C	2.63	0.41
1:C:262:ASP:HB3	1:C:264:TYR:CZ	2.56	0.41
1:C:292:GLY:C	1:C:293:LYS:HD2	2.45	0.41
1:C:568:VAL:HG23	1:C:569:GLY:N	2.35	0.41
1:D:524:THR:HG22	1:D:542:ALA:HB2	2.02	0.41
1:F:330:GLN:HE22	1:F:360:ARG:HD2	1.85	0.41
1:F:425:GLU:CD	1:F:425:GLU:N	2.78	0.41
1:H:71:SER:OG	1:H:84:ARG:O	2.27	0.41
1:H:231:ALA:O	1:H:245:THR:HA	2.20	0.41
1:H:260:VAL:O	1:H:262:ASP:N	2.53	0.41
1:I:167:VAL:HG22	1:I:201:VAL:HA	2.03	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:494:GLN:NE2	1:I:494:GLN:HA	2.35	0.41
1:I:799:THR:HG21	1:J:801:ALA:HB1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:3:THR:CG2	1:K:50:MET:HE2	2.49	0.41
1:K:251:VAL:HG21	1:K:257:GLU:HG2	2.01	0.41
1:K:310:LEU:HD21	1:K:316:LEU:HG	2.01	0.41
1:L:67:ARG:HG2	1:L:108:ASP:HB3	2.01	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:M:279:ARG:HG3	1:M:280:HIS:HD2	1.86	0.41
1:M:335:LYS:HZ3	1:M:335:LYS:HB2	1.86	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:152:ILE:O	1:P:152:ILE:HG12	2.19	0.41
1:P:191:VAL:CG1	1:P:192:THR:N	2.83	0.41
1:P:244:ARG:HB3	1:Q:221:LEU:HD23	2.03	0.41
1:P:676:GLU:O	1:P:679:ARG:N	2.53	0.41
1:P:811:ALA:C	1:P:813:ALA:H	2.28	0.41
1:Q:7:ILE:H	1:Q:41:GLU:HG3	1.85	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:R:206:PRO:HB2	1:R:209:PHE:CD2	2.56	0.41
1:R:394:LYS:CG	1:S:329:GLN:HG3	2.38	0.41
1:R:469:GLN:HB3	1:R:496:THR:CG2	2.50	0.41
1:R:533:ASP:OD1	1:R:533:ASP:N	2.53	0.41
1:S:49:ARG:HH22	1:T:8:ILE:CD1	2.34	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:S:580:ARG:HH22	1:T:595:SER:HB2	1.85	0.41
1:T:260:VAL:C	1:T:262:ASP:N	2.79	0.41
1:U:10:ILE:HG23	1:U:11:PRO:HD2	2.03	0.41
1:V:45:PHE:HB2	1:V:48:VAL:HG23	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:W:3:THR:CG2	1:W:50:MET:HE1	2.50	0.41
1:W:402:ILE:C	1:W:402:ILE:HD12	2.45	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:808:ARG:O	1:Y:812:VAL:HG23	2.21	0.41
1:Z:747:LYS:HD3	1:Z:747:LYS:HA	1.66	0.41
1:a:36:ILE:O	1:a:37:ARG:HG3	2.20	0.41
1:a:129:PHE:CD1	1:a:129:PHE:N	2.88	0.41
1:a:337:LEU:N	1:a:337:LEU:HD23	2.35	0.41
1:a:382:LEU:HD11	1:a:388:ILE:HD12	2.02	0.41
1:a:543:TYR:CE2	1:a:575:ILE:HG21	2.55	0.41
1:a:752:ALA:HA	1:a:755:THR:HG22	2.02	0.41
1:b:123:LEU:CD1	1:b:143:TRP:HB2	2.50	0.41
1:b:276:LEU:HB2	1:b:280:HIS:ND1	2.36	0.41
1:b:286:ASP:N	1:b:287:PRO:HD3	2.35	0.41
1:b:682:GLN:O	1:b:683:GLU:C	2.63	0.41
1:b:707:LEU:HD22	1:c:717:GLU:HB2	2.03	0.41
1:c:15:TYR:O	1:c:34:THR:OG1	2.39	0.41
1:c:235:PHE:CZ	1:c:264:TYR:CE1	3.07	0.41
1:c:341:GLU:HG2	1:c:370:LYS:HD3	2.02	0.41
1:d:169:LYS:HB2	1:d:169:LYS:HE3	1.82	0.41
1:e:185:ARG:HG3	1:e:206:PRO:HB3	2.02	0.41
1:e:325:VAL:HA	1:e:364:GLU:HA	2.03	0.41
1:e:791:GLU:OE1	1:f:794:LYS:NZ	2.54	0.41
1:f:93:ALA:C	1:f:95:ASP:N	2.79	0.41
1:f:284:ILE:HD13	1:f:284:ILE:N	2.29	0.41
1:f:382:LEU:HD11	1:f:388:ILE:HD12	2.02	0.41
1:g:146:GLU:HA	1:g:146:GLU:OE1	2.20	0.41
1:g:535:ALA:HA	1:h:658:VAL:HG21	2.03	0.41
1:g:542:ALA:HB3	1:g:639:ASP:HB2	2.03	0.41
1:g:594:ASN:O	1:g:598:ILE:HG12	2.21	0.41
1:g:759:LEU:HD22	1:h:768:MET:HG3	2.03	0.41
1:h:217:ASP:OD1	1:h:257:GLU:O	2.38	0.41
1:h:470:VAL:HB	1:h:479:ARG:HG3	2.02	0.41
1:h:601:MET:CG	1:h:622:ALA:HB2	2.47	0.41
1:i:476:LYS:N	1:i:476:LYS:HD2	2.35	0.41
1:j:5:GLU:CB	1:j:7:ILE:CD1	2.98	0.41
1:j:67:ARG:CD	1:j:108:ASP:HB3	2.51	0.41
1:j:177:ARG:HH11	1:j:177:ARG:HB2	1.85	0.41
1:j:402:ILE:HD12	1:j:402:ILE:C	2.46	0.41
1:j:517:LEU:H	1:j:517:LEU:HD12	1.85	0.41
1:j:568:VAL:HG23	1:j:569:GLY:H	1.86	0.41
1:j:621:LYS:HA	1:j:621:LYS:HE3	2.02	0.41
1:k:5:GLU:HB2	1:k:41:GLU:OE1	2.21	0.41
1:k:65:VAL:HA	1:k:110:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:122:HIS:HB3	1:k:160:VAL:H	1.85	0.41
1:k:199:ARG:HH21	1:k:258:ALA:HB3	1.85	0.41
1:k:794:LYS:O	1:k:798:MET:HG3	2.21	0.41
1:l:339:PRO:HG2	1:l:370:LYS:HE2	2.02	0.41
1:l:545:TRP:HB2	1:l:633:LEU:HD21	2.03	0.41
1:l:748:ALA:O	1:l:752:ALA:HB2	2.20	0.41
1:m:494:GLN:NE2	1:m:494:GLN:CA	2.78	0.41
1:m:586:VAL:HG13	1:m:590:ASP:OD2	2.21	0.41
1:A:155:LYS:HZ2	1:A:155:LYS:HB2	1.85	0.41
1:A:336:ALA:H	1:A:374:VAL:HG23	1.84	0.41
1:B:285:LEU:HD12	1:B:315:ARG:HD2	2.03	0.41
1:B:766:ARG:HD2	1:C:768:MET:HE1	2.02	0.41
1:C:330:GLN:HE22	1:C:360:ARG:HD2	1.84	0.41
1:C:745:LYS:HG3	1:D:753:ILE:CD1	2.51	0.41
1:D:132:LYS:HD2	1:D:132:LYS:HA	1.71	0.41
1:D:495:PHE:CB	1:D:514:LEU:HD11	2.45	0.41
1:E:17:HIS:CD2	1:E:18:VAL:HG22	2.56	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:352:GLN:O	1:E:353:ALA:C	2.63	0.41
1:E:508:PRO:O	1:E:509:HIS:HD2	2.02	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:335:LYS:HD3	1:G:359:ILE:HD12	2.02	0.41
1:H:426:LEU:C	1:H:428:ASN:H	2.28	0.41
1:I:284:ILE:CD1	1:I:302:VAL:HG22	2.51	0.41
1:I:653:ALA:HA	1:I:656:ARG:NH2	2.35	0.41
1:J:104:VAL:HG22	1:J:105:LEU:H	1.86	0.41
1:J:197:LEU:HD22	1:J:197:LEU:HA	1.88	0.41
1:J:227:LEU:CB	1:J:251:VAL:HG12	2.50	0.41
1:J:807:ILE:HD12	1:K:806:THR:HG21	2.02	0.41
1:K:13:TYR:N	1:K:13:TYR:HD1	2.18	0.41
1:K:327:SER:O	1:K:328:GLU:C	2.64	0.41
1:K:329:GLN:CD	1:K:330:GLN:HG2	2.45	0.41
1:K:554:ASP:HA	1:K:555:PRO:HD3	1.87	0.41
1:K:802:LEU:H	1:K:802:LEU:HD23	1.85	0.41
1:L:591:PHE:O	1:L:595:SER:N	2.51	0.41
1:L:697:SER:CA	1:M:706:LEU:HD23	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:109:ILE:CD1	1:M:153:PRO:HG2	2.50	0.41
1:M:281:TYR:CD2	1:M:366:VAL:HG13	2.56	0.41
1:M:416:GLU:HB2	1:M:454:LYS:HB3	2.01	0.41
1:M:419:LEU:HD13	1:M:494:GLN:NE2	2.35	0.41
1:M:599:ILE:O	1:M:601:MET:N	2.54	0.41
1:N:164:GLN:CD	1:N:204:TYR:HB3	2.46	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:36:ILE:C	1:O:36:ILE:CD1	2.88	0.41
1:O:244:ARG:O	1:O:247:GLU:HB2	2.21	0.41
1:O:252:THR:O	1:O:253:VAL:C	2.63	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:P:768:MET:C	1:P:770:LEU:N	2.79	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:Q:535:ALA:HA	1:R:658:VAL:HG21	2.03	0.41
1:R:36:ILE:HG21	1:R:99:LEU:CD1	2.51	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:332:LEU:HD13	1:R:377:ARG:HG2	2.03	0.41
1:R:334:LEU:C	1:R:335:LYS:HG3	2.44	0.41
1:S:38:GLN:H	1:S:38:GLN:HG2	1.61	0.41
1:S:151:TYR:O	1:S:153:PRO:HD3	2.21	0.41
1:S:220:ILE:C	1:S:222:THR:N	2.79	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:S:768:MET:C	1:S:770:LEU:N	2.79	0.41
1:T:73:VAL:HG11	1:T:82:ARG:HB2	2.02	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:291:ASP:C	1:T:293:LYS:H	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:335:LYS:HE2	1:W:335:LYS:HB2	2.00	0.41
1:W:597:ARG:NH1	1:W:597:ARG:HB3	2.36	0.41
1:X:46:ALA:H	1:X:47:PRO:HD3	1.83	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:Y:554:ASP:HA	1:Y:555:PRO:HD3	1.82	0.41
1:Z:20:ASP:HB2	1:Z:49:ARG:HD3	2.02	0.41
1:Z:182:CYS:HB2	1:Z:208:VAL:HB	2.03	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:108:ASP:OD1	1:a:108:ASP:N	2.54	0.41
1:a:289:GLY:HA3	1:a:290:PRO:HD2	1.77	0.41
1:a:693:ILE:N	1:a:693:ILE:CD1	2.83	0.41
1:b:1:MET:O	1:b:2:ALA:CB	2.69	0.41
1:b:15:TYR:CE2	1:b:17:HIS:HB3	2.56	0.41
1:b:382:LEU:N	1:b:405:THR:HG22	2.36	0.41
1:b:623:ARG:CG	1:b:624:ASP:H	2.33	0.41
1:c:196:TRP:HA	1:c:196:TRP:HE3	1.86	0.41
1:d:175:ARG:HA	1:d:196:TRP:O	2.21	0.41
1:d:421:SER:O	1:d:422:GLY:C	2.64	0.41
1:e:189:GLY:O	1:e:190:ARG:HB3	2.21	0.41
1:e:660:LEU:HD13	1:e:663:GLU:HG2	2.02	0.41
1:f:384:GLN:H	1:f:384:GLN:NE2	2.18	0.41
1:g:69:THR:HA	1:g:106:GLU:CB	2.50	0.41
1:g:255:ASP:CG	1:g:256:THR:N	2.79	0.41
1:g:256:THR:O	1:g:256:THR:HG23	2.19	0.41
1:g:284:ILE:HG12	1:g:300:ARG:HB3	2.03	0.41
1:g:554:ASP:OD2	1:g:554:ASP:C	2.63	0.41
1:h:534:HIS:CE1	1:i:592:HIS:CD2	3.09	0.41
1:i:798:MET:O	1:i:802:LEU:HD23	2.20	0.41
1:j:291:ASP:C	1:j:293:LYS:N	2.78	0.41
1:j:341:GLU:O	1:j:341:GLU:OE1	2.39	0.41
1:k:11:PRO:HB2	1:k:12:PRO:HD3	2.02	0.41
1:k:469:GLN:HB3	1:k:496:THR:CG2	2.51	0.41
1:l:65:VAL:HA	1:l:110:THR:CA	2.49	0.41
1:l:311:GLN:N	1:l:314:GLU:HG3	2.35	0.41
1:l:595:SER:O	1:l:599:ILE:HG12	2.20	0.41
1:l:729:ARG:HB2	1:l:729:ARG:CZ	2.49	0.41
1:l:811:ALA:C	1:l:813:ALA:H	2.28	0.41
1:m:60:ILE:HG22	1:m:66:SER:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:68:ASP:O	1:m:69:THR:HB	2.20	0.41
1:m:191:VAL:HG12	1:m:194:GLU:HB2	2.03	0.41
1:m:251:VAL:CG2	1:m:254:GLN:NE2	2.79	0.41
1:B:343:GLY:HA2	1:B:348:LYS:C	2.46	0.41
1:C:794:LYS:O	1:C:798:MET:HG2	2.20	0.41
1:D:121:LEU:HB2	1:D:145:PHE:CB	2.48	0.41
1:D:291:ASP:C	1:D:293:LYS:H	2.29	0.41
1:E:14:HIS:HB2	1:E:56:ARG:HB2	1.97	0.41
1:E:38:GLN:H	1:E:38:GLN:HG2	1.61	0.41
1:E:279:ARG:HA	1:E:323:VAL:HG22	2.03	0.41
1:E:601:MET:HG2	1:E:622:ALA:HB2	2.03	0.41
1:F:325:VAL:HA	1:F:364:GLU:HA	2.03	0.41
1:F:342:GLU:HA	1:F:350:SER:HA	2.02	0.41
1:G:182:CYS:SG	1:G:208:VAL:HG21	2.61	0.41
1:H:22:ASN:HD21	1:I:39:ASP:HB3	1.84	0.41
1:H:627:VAL:HG13	1:H:634:VAL:HG22	2.03	0.41
1:I:383:ASP:OD1	1:I:383:ASP:N	2.54	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:135:ASP:C	1:J:136:LYS:HG3	2.44	0.41
1:J:527:ILE:HD13	1:J:539:LEU:O	2.20	0.41
1:L:114:VAL:CA	1:L:118:ASN:HD21	2.34	0.41
1:L:130:GLU:HB2	1:L:136:LYS:HA	2.03	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:226:ALA:O	1:M:269:GLY:HA2	2.21	0.41
1:M:262:ASP:HB3	1:M:264:TYR:CZ	2.55	0.41
1:M:296:LEU:HB2	1:N:274:THR:HG21	2.03	0.41
1:M:328:GLU:O	1:M:329:GLN:C	2.63	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:N:13:TYR:N	1:N:13:TYR:CD1	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:60:ILE:HG22	1:P:66:SER:HA	2.03	0.41
1:P:249:TRP:CD1	1:P:249:TRP:N	2.88	0.41
1:P:336:ALA:HA	1:P:356:CYS:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:519:GLY:O	1:P:521:ASP:N	2.50	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:OE1	1:R:158:GLU:N	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:S:338:GLN:OE1	1:T:278:PRO:HB2	2.21	0.41
1:T:123:LEU:CG	1:T:143:TRP:HB2	2.50	0.41
1:T:419:LEU:CG	1:T:420:PRO:HD2	2.46	0.41
1:V:17:HIS:CD2	1:V:18:VAL:HG22	2.55	0.41
1:V:49:ARG:HH22	1:W:8:ILE:CD1	2.34	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: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:V:425:GLU:CD	1:V:425:GLU:H	2.28	0.41
1:W:1:MET:HE1	1:W:47:PRO:HB3	1.97	0.41
1:W:391:GLN:HB2	1:W:398:VAL:HG22	2.02	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
1:Y:579:VAL:HG21	1:Y:599:ILE:HG23	2.02	0.41
1:Y:766:ARG:CG	1:Z:772:TYR:CD1	3.04	0.41
1:Z:25:VAL:O	1:Z:26:SER:HB2	2.21	0.41
1:Z:61:VAL:HG13	1:Z:65:VAL:CG2	2.44	0.41
1:Z:394:LYS:HG2	1:a:329:GLN:CG	2.37	0.41
1:Z:549:LEU:HD22	1:Z:549:LEU:HA	1.96	0.41
1:Z:755:THR:HG21	1:a:761:ARG:HG2	2.02	0.41
1:a:517:LEU:O	1:a:545:TRP:CH2	2.70	0.41
1:a:533:ASP:OD1	1:a:533:ASP:N	2.53	0.41
1:a:748:ALA:O	1:a:752:ALA:HB2	2.21	0.41
1:b:63:ASN:H	1:b:64:PRO:HD2	1.83	0.41
1:b:122:HIS:CG	1:b:159:VAL:HB	2.55	0.41
1:b:165:ALA:HB2	1:b:211:GLU:OE2	2.21	0.41
1:c:10:ILE:CG2	1:c:11:PRO:HD2	2.51	0.41
1:c:227:LEU:HD23	1:c:227:LEU:HA	1.83	0.41
1:c:260:VAL:C	1:c:262:ASP:N	2.79	0.41
1:d:90:ILE:HD12	1:d:90:ILE:O	2.20	0.41
1:d:130:GLU:HB2	1:d:136:LYS:HG2	2.02	0.41
1:d:339:PRO:HG2	1:d:370:LYS:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:29:GLU:HB3	1:e:84:ARG:HD3	2.02	0.41
1:e:40:ASN:HB3	1:e:42:ARG:HH11	1.85	0.41
1:e:191:VAL:HG12	1:e:194:GLU:HB2	2.02	0.41
1:f:121:LEU:HD12	1:f:145:PHE:HD2	1.85	0.41
1:f:150:THR:HG23	1:f:151:TYR:H	1.86	0.41
1:f:184:ASP:OD2	1:f:209:PHE:HZ	2.04	0.41
1:g:5:GLU:HA	1:g:7:ILE:CD1	2.51	0.41
1:g:230:ARG:HB2	1:g:265:GLU:HB3	2.02	0.41
1:h:291:ASP:C	1:h:293:LYS:H	2.27	0.41
1:i:234:ASN:ND2	1:i:245:THR:H	2.18	0.41
1:i:326:LEU:O	1:i:328:GLU:HG2	2.20	0.41
1:j:14:HIS:CE1	1:j:99:LEU:HB2	2.56	0.41
1:j:320:ILE:N	1:j:320:ILE:CD1	2.82	0.41
1:j:383:ASP:C	1:j:385:ASN:N	2.78	0.41
1:k:311:GLN:N	1:k:314:GLU:HG3	2.36	0.41
1:k:601:MET:HG3	1:k:622:ALA:HB2	2.02	0.41
1:l:67:ARG:NE	1:l:108:ASP:HB3	2.35	0.41
1:l:379:ALA:HB2	1:l:407:MET:HB3	2.03	0.41
1:l:698:GLU:OE2	1:l:698:GLU:HA	2.21	0.41
1:l:747:LYS:HD3	1:l:747:LYS:HA	1.84	0.41
1:m:333:LEU:HB2	1:m:359:ILE:HD13	2.02	0.41
1:m:569:GLY:O	1:m:573:LYS:HB2	2.21	0.41
1:A:30:VAL:HG13	1:A:74:LEU:HD11	2.02	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:A:655:GLN:HG2	1:m:649:ARG:HH21	1.86	0.41
1:B:119:THR:HG22	1:B:120:ALA:H	1.86	0.41
1:B:398:VAL:N	1:C:384:GLN:OE1	2.49	0.41
1:B:708:GLU:CG	1:C:716:VAL:HG11	2.51	0.41
1:C:36:ILE:C	1:C:36:ILE:CD1	2.90	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:504:ARG:HA	1:C:504:ARG:HD3	1.92	0.41
1:C:534:HIS:CD2	1:D:654:LEU:HG	2.56	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:396:GLY:CA	1:E:405:THR:HG23	2.50	0.41
1:D:530:GLU:HA	1:D:535:ALA:O	2.21	0.41
1:D:533:ASP:OD2	1:E:661:ALA:HB1	2.21	0.41
1:E:327:SER:H	1:E:331:GLY:HA3	1.86	0.41
1:E:522:PHE:C	1:E:522:PHE:HD2	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:543:TYR:CD2	1:E:575:ILE:HD13	2.56	0.41
1:E:799:THR:HG21	1:F:801:ALA:HB1	2.03	0.41
1:F:70:GLN:HG2	1:F:104:VAL:HG12	2.03	0.41
1:F:71:SER:OG	1:F:84:ARG:O	2.38	0.41
1:F:185:ARG:HB2	1:F:206:PRO:HG2	2.03	0.41
1:F:282:CYS:SG	1:F:302:VAL:HG23	2.60	0.41
1:G:120:ALA:O	1:G:161:GLU:HA	2.21	0.41
1:G:122:HIS:O	1:G:159:VAL:N	2.44	0.41
1:G:221:LEU:HA	1:G:253:VAL:HG13	2.03	0.41
1:G:416:GLU:HB2	1:G:454:LYS:HB3	2.01	0.41
1:G:504:ARG:HA	1:G:504:ARG:HD3	1.86	0.41
1:G:533:ASP:OD1	1:G:587:THR:HA	2.20	0.41
1:G:808:ARG:O	1:G:812:VAL:HG23	2.21	0.41
1:H:53:VAL:HG11	1:H:56:ARG:HG3	2.03	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:473:TYR:HE1	1:H:494:GLN:HB2	1.85	0.41
1:H:532:ALA:HB1	1:I:593:LYS:HE2	2.03	0.41
1:I:18:VAL:CG1	1:I:48:VAL:HG22	2.33	0.41
1:I:65:VAL:HA	1:I:110:THR:HA	2.03	0.41
1:I:113:GLN:OE1	1:I:149:GLY:HA2	2.20	0.41
1:I:557:GLU:HA	1:I:560:LYS:HB2	2.03	0.41
1:J:36:ILE:CD1	1:J:36:ILE:C	2.84	0.41
1:J:113:GLN:NE2	1:J:150:THR:HG22	2.35	0.41
1:J:184:ASP:HB2	1:J:189:GLY:O	2.21	0.41
1:J:273:ILE:HG23	1:J:310:LEU:HD11	2.03	0.41
1:J:472:ASP:CA	1:J:493:GLU:HB3	2.49	0.41
1:J:558:ALA:O	1:J:561:LEU:HB2	2.20	0.41
1:K:15:TYR:CE2	1:K:17:HIS:HB3	2.56	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:340:LEU:HD21	1:L:363:LEU:CD2	2.51	0.41
1:L:15:TYR:CE2	1:L:17:HIS:HB3	2.56	0.41
1:L:402:ILE:HD12	1:L:402:ILE:C	2.46	0.41
1:L:594:ASN:HB3	1:L:598:ILE:HD13	2.03	0.41
1:L:601:MET:HE2	1:L:601:MET:HB3	1.87	0.41
1:L:794:LYS:O	1:L:798:MET:CG	2.67	0.41
1:M:354:GLY:O	1:N:328:GLU:HG3	2.21	0.41
1:M:360:ARG:NE	1:M:407:MET:HG2	2.36	0.41
1:M:464:HIS:CD2	1:M:484:PRO:HB3	2.56	0.41
1:M:596:ALA:O	1:M:600:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:669:GLN:O	1:M:670:GLU:C	2.63	0.41
1:M:799:THR:O	1:M:802:LEU:O	2.39	0.41
1:N:300:ARG:HA	1:N:300:ARG:HD3	1.93	0.41
1:O:67:ARG:HG2	1:O:108:ASP:HA	2.03	0.41
1:O:175:ARG:HA	1:O:196:TRP:O	2.20	0.41
1:O:327:SER:O	1:O:328:GLU:HB2	2.21	0.41
1:O:503:GLY:O	1:O:506:LYS:HD3	2.21	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:341:GLU:HG2	1:P:370:LYS:HD3	2.03	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: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:183:PHE:CE2	1:Q:188:LYS:HA	2.40	0.41
1:Q:251:VAL:HG21	1:Q:257:GLU:HG2	2.01	0.41
1:Q:299:LYS:NZ	1:Q:317:GLU:OE2	2.33	0.41
1:Q:335:LYS:HZ3	1:Q:335:LYS:HB2	1.86	0.41
1:Q:462:VAL:CG2	1:Q:468:VAL:HG23	2.51	0.41
1:Q:600:ARG:NH1	1:Q:622:ALA:HB3	2.36	0.41
1:Q:653:ALA:HB3	1:R:662:ILE:HD11	1.75	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:144:LEU:H	1:R:144:LEU:HD12	1.85	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:R:767:GLU:O	1:R:771:ILE:HD13	2.21	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:122:HIS:O	1:S:159:VAL:N	2.41	0.41
1:S:523:PHE:CD1	1:S:545:TRP:NE1	2.89	0.41
1:S:531:THR:OG1	1:S:535:ALA:HB3	2.21	0.41
1:T:130:GLU:O	1:T:130:GLU:HG3	2.20	0.41
1:T:164:GLN:H	1:T:164:GLN:HG2	1.71	0.41
1:T:235:PHE:CZ	1:T:264:TYR:CE1	3.09	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:523:PHE:CD1	1:U:545:TRP:NE1	2.89	0.41
1:V:208:VAL:HG23	1:V:209:PHE:HD2	1.86	0.41
1:V:235:PHE:CE1	1:V:264:TYR:CE1	3.09	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:OE1	1:V:330:GLN:HA	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:V:745:LYS:HG3	1:W:753:ILE:CD1	2.51	0.41
1:W:148:PRO:HB2	1:W:149:GLY:H	1.75	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:543:TYR:CE2	1:W:575:ILE:HG21	2.56	0.41
1:W:545:TRP:CE3	1:W:546:HIS:HA	2.56	0.41
1:X:387:GLY:CA	1:X:402:ILE:HG22	2.46	0.41
1:X:485:GLU:HG2	1:X:486:LEU:H	1.86	0.41
1:Y:17:HIS:CD2	1:Y:18:VAL:HG22	2.56	0.41
1:Y:65:VAL:HA	1:Y:110:THR:HA	2.02	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:310:LEU:HD12	1:Y:310:LEU:H	1.85	0.41
1:Y:399:ARG:HG2	1:Y:399:ARG:NH1	2.36	0.41
1:Y:640:VAL:O	1:Y:640:VAL:HG13	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:Z:601:MET:HE2	1:Z:601:MET:HB3	1.70	0.41
1:a:18:VAL:HG13	1:a:48:VAL:CG2	2.31	0.41
1:a:171:ASN:O	1:a:216:VAL:HA	2.20	0.41
1:a:183:PHE:CG	1:a:190:ARG:HD3	2.56	0.41
1:b:183:PHE:HA	1:b:190:ARG:HD3	2.03	0.41
1:b:242:LEU:HD23	1:b:242:LEU:H	1.85	0.41
1:b:283:VAL:HG23	1:b:321:GLN:NE2	2.36	0.41
1:b:397:LYS:CA	1:c:384:GLN:OE1	2.62	0.41
1:b:747:LYS:HD3	1:b:747:LYS:HA	1.83	0.41
1:c:36:ILE:HG12	1:c:58:TYR:CE1	2.56	0.41
1:c:60:ILE:N	1:c:60:ILE:CD1	2.75	0.41
1:c:174:LEU:CB	1:c:198:VAL:HB	2.51	0.41
1:c:392:ASP:OD1	1:c:394:LYS:HB2	2.21	0.41
1:c:418:GLU:HG2	1:c:423:VAL:HG22	2.03	0.41
1:c:506:LYS:HD3	1:c:506:LYS:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:623:ARG:HG3	1:c:624:ASP:N	2.34	0.41
1:c:701:LYS:HG3	1:d:709:LEU:HD13	2.03	0.41
1:c:811:ALA:C	1:c:813:ALA:H	2.29	0.41
1:d:8:ILE:HD12	1:d:8:ILE:C	2.45	0.41
1:d:129:PHE:O	1:d:137:VAL:O	2.38	0.41
1:d:354:GLY:HA3	1:e:328:GLU:OE2	2.21	0.41
1:e:6:ALA:HA	1:e:41:GLU:O	2.21	0.41
1:e:244:ARG:N	1:e:247:GLU:OE1	2.53	0.41
1:e:745:LYS:HB2	1:e:745:LYS:HE3	1.95	0.41
1:f:28:VAL:CG1	1:f:30:VAL:HG23	2.40	0.41
1:f:120:ALA:HB2	1:f:164:GLN:HE22	1.85	0.41
1:f:221:LEU:HD22	1:f:256:THR:HB	2.02	0.41
1:f:330:GLN:CG	1:f:379:ALA:HB3	2.51	0.41
1:f:766:ARG:HD2	1:g:768:MET:CE	2.50	0.41
1:g:54:PRO:CB	1:g:55:PRO:CD	2.87	0.41
1:g:184:ASP:HB3	1:g:187:GLY:O	2.21	0.41
1:g:402:ILE:HD12	1:g:402:ILE:O	2.20	0.41
1:g:415:TRP:CZ3	1:g:417:LYS:HG2	2.56	0.41
1:g:421:SER:O	1:g:423:VAL:N	2.53	0.41
1:g:697:SER:HB3	1:h:706:LEU:HB2	2.03	0.41
1:h:67:ARG:HH21	1:h:107:LYS:CA	2.30	0.41
1:h:69:THR:HA	1:h:106:GLU:HB2	2.02	0.41
1:h:125:ALA:HB3	1:h:139:ALA:O	2.21	0.41
1:h:131:ASP:HB2	1:h:155:LYS:HD2	2.03	0.41
1:h:417:LYS:HE3	1:h:491:PRO:O	2.21	0.41
1:h:547:PHE:CD2	1:h:561:LEU:HD23	2.55	0.41
1:i:285:LEU:HD12	1:i:315:ARG:HD2	2.02	0.41
1:i:340:LEU:HG	1:i:353:ALA:N	2.23	0.41
1:i:606:PHE:HA	1:i:622:ALA:HA	2.03	0.41
1:i:649:ARG:HH21	1:j:655:GLN:HG2	1.86	0.41
1:i:700:GLU:OE1	1:i:703:ARG:NH1	2.54	0.41
1:j:17:HIS:CD2	1:j:18:VAL:HG22	2.56	0.41
1:j:54:PRO:CB	1:j:55:PRO:HD3	2.51	0.41
1:j:163:ILE:H	1:j:163:ILE:CD1	2.16	0.41
1:j:204:TYR:HD1	1:j:206:PRO:HD3	1.85	0.41
1:j:256:THR:O	1:j:256:THR:HG23	2.20	0.41
1:j:285:LEU:HD12	1:j:315:ARG:HD2	2.02	0.41
1:j:421:SER:C	1:j:423:VAL:N	2.79	0.41
1:j:452:ARG:HG3	1:j:452:ARG:NH1	2.34	0.41
1:j:506:LYS:HD3	1:j:506:LYS:HA	1.85	0.41
1:j:796:LYS:C	1:j:799:THR:HG22	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:65:VAL:HA	1:k:110:THR:HA	2.01	0.41
1:k:273:ILE:CD1	1:k:316:LEU:HD11	2.33	0.41
1:k:334:LEU:C	1:k:335:LYS:HG3	2.45	0.41
1:k:388:ILE:HD12	1:k:388:ILE:C	2.46	0.41
1:k:533:ASP:CG	1:k:588:PHE:H	2.28	0.41
1:l:167:VAL:CB	1:l:201:VAL:O	2.51	0.41
1:l:177:ARG:H	1:l:212:VAL:CG2	2.34	0.41
1:l:260:VAL:HB	1:l:263:VAL:CA	2.36	0.41
1:l:533:ASP:CG	1:l:588:PHE:H	2.27	0.41
1:l:580:ARG:HH22	1:m:595:SER:CB	2.14	0.41
1:l:807:ILE:H	1:l:807:ILE:HG13	1.65	0.41
1:l:807:ILE:HD12	1:l:808:ARG:N	2.36	0.41
1:m:227:LEU:HB2	1:m:251:VAL:HG13	2.01	0.41
1:m:294:ASN:ND2	1:m:313:GLY:HA3	2.36	0.41
1:m:322:ASP:OD1	1:m:322:ASP:N	2.52	0.41
1:A:336:ALA:HA	1:A:356:CYS:HB2	2.03	0.41
1:A:572:CYS:O	1:A:573:LYS:C	2.63	0.41
1:B:360:ARG:HG3	1:B:361:GLY:N	2.36	0.41
1:B:485:GLU:CG	1:B:486:LEU:H	2.34	0.41
1:C:260:VAL:O	1:C:261:PRO:C	2.63	0.41
1:D:295:GLN:HG2	1:D:298:GLN:HE21	1.86	0.41
1:D:601:MET:CG	1:D:622:ALA:HB2	2.38	0.41
1:E:36:ILE:HD11	1:E:58:TYR:HE1	1.86	0.41
1:E:176:LEU:HA	1:E:210:GLU:O	2.20	0.41
1:F:178:ALA:HB1	1:F:182:CYS:HB3	2.02	0.41
1:F:389:TYR:CZ	1:F:457:VAL:HA	2.55	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:391:GLN:HA	1:G:397:LYS:O	2.21	0.41
1:H:328:GLU:CG	1:H:329:GLN:N	2.70	0.41
1:H:781:VAL:HG21	1:I:786:GLN:OE1	2.20	0.41
1:I:8:ILE:HG22	1:I:40:ASN:HD21	1.85	0.41
1:I:199:ARG:NH1	1:I:238:LEU:HG	2.35	0.41
1:I:472:ASP:CA	1:I:493:GLU:HB3	2.50	0.41
1:I:569:GLY:O	1:I:570:ASP:C	2.64	0.41
1:J:165:ALA:HB2	1:J:211:GLU:OE2	2.21	0.41
1:J:327:SER:CB	1:J:331:GLY:HA3	2.51	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:415:TRP:CH2	1:J:417:LYS:HB3	2.56	0.41
1:J:452:ARG:NH1	1:J:452:ARG:HG3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:481:VAL:O	1:J:481:VAL:CG1	2.69	0.41
1:K:5:GLU:HG2	1:K:43:VAL:HG21	2.03	0.41
1:K:114:VAL:HA	1:K:118:ASN:HD21	1.86	0.41
1:K:279:ARG:O	1:K:323:VAL:N	2.35	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:155:LYS:HB2	1:L:155:LYS:HZ2	1.85	0.41
1:M:11:PRO:HB3	1:M:38:GLN:CD	2.46	0.41
1:M:236:ARG:HH11	1:M:236:ARG:HB3	1.86	0.41
1:N:161:GLU:CD	1:N:161:GLU:H	2.29	0.41
1:N:283:VAL:HG22	1:N:301:VAL:CG1	2.51	0.41
1:O:10:ILE:HG23	1:O:11:PRO:HD2	2.03	0.41
1:O:56:ARG:HH11	1:O:99:LEU:CD2	2.34	0.41
1:O:100:TYR:CB	1:O:101:PRO:CD	2.94	0.41
1:O:416:GLU:HB2	1:O:454:LYS:HB3	2.02	0.41
1:P:5:GLU:O	1:P:41:GLU:O	2.38	0.41
1:P:65:VAL:CG1	1:P:110:THR:HG22	2.50	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:Q:766:ARG:HD3	1:R:772:TYR:CG	2.56	0.41
1:R:14:HIS:HB2	1:R:56:ARG:HB2	1.94	0.41
1:R:234:ASN:ND2	1:R:245:THR:H	2.19	0.41
1:R:333:LEU:HD23	1:R:376:GLU:HA	2.03	0.41
1:R:335:LYS:HE2	1:R:335:LYS:HB2	1.94	0.41
1:R:462:VAL:HG22	1:R:468:VAL:CG2	2.51	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:60:ILE:N	1:V:60:ILE:HD13	2.35	0.41
1:V:173:ALA:HB1	1:V:198:VAL:O	2.20	0.41
1:W:63:ASN:N	1:W:64:PRO:HD2	2.36	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:HD13	1:W:575:ILE:N	2.34	0.41
1:W:692:LYS:HG2	1:W:696:GLN:HE21	1.85	0.41
1:Y:132:LYS:HZ2	1:Y:152:ILE:HG23	1.86	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:395:THR:C	1:Y:397:LYS:H	2.29	0.41
1:Y:421:SER:O	1:Y:425:GLU:OE2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:603:VAL:HG21	1:Y:638:VAL:HG21	2.03	0.41
1:Z:11:PRO:CA	1:Z:38:GLN:HA	2.42	0.41
1:Z:209:PHE:HD2	1:Z:209:PHE:H	1.69	0.41
1:a:229:LEU:HD23	1:a:266:GLU:HA	2.03	0.41
1:a:337:LEU:HG	1:a:354:GLY:H	1.86	0.41
1:a:530:GLU:HA	1:a:535:ALA:O	2.20	0.41
1:a:536:ARG:HB3	1:a:536:ARG:NH1	2.35	0.41
1:b:14:HIS:HB3	1:b:56:ARG:HB2	2.02	0.41
1:c:3:THR:CG2	1:c:50:MET:HE1	2.50	0.41
1:c:194:GLU:HG2	1:c:195:GLU:H	1.85	0.41
1:c:395:THR:C	1:c:397:LYS:H	2.29	0.41
1:c:551:ASN:HB3	1:c:554:ASP:CB	2.51	0.41
1:c:644:GLU:HA	1:c:645:PRO:HD3	1.97	0.41
1:d:121:LEU:HD12	1:d:145:PHE:CD2	2.56	0.41
1:d:811:ALA:C	1:d:813:ALA:H	2.28	0.41
1:e:386:GLU:OE2	1:e:456:ARG:HD3	2.21	0.41
1:g:171:ASN:O	1:g:216:VAL:HB	2.21	0.41
1:g:281:TYR:CE2	1:g:366:VAL:HG13	2.56	0.41
1:h:14:HIS:HB3	1:h:56:ARG:HG3	2.03	0.41
1:h:36:ILE:HD11	1:h:58:TYR:HE1	1.86	0.41
1:h:335:LYS:HE2	1:h:371:VAL:HG11	2.03	0.41
1:h:755:THR:HG21	1:i:761:ARG:HG2	2.03	0.41
1:i:14:HIS:ND1	1:i:36:ILE:HG22	2.36	0.41
1:i:227:LEU:HD23	1:i:227:LEU:HA	1.91	0.41
1:i:465:ASN:HB3	1:i:519:GLY:HA3	2.02	0.41
1:j:568:VAL:HG23	1:j:569:GLY:N	2.35	0.41
1:j:759:LEU:HA	1:j:762:VAL:HG23	2.03	0.41
1:k:330:GLN:OE1	1:k:407:MET:HG3	2.20	0.41
1:k:330:GLN:HG3	1:k:379:ALA:HB3	2.03	0.41
1:k:336:ALA:HA	1:k:356:CYS:CB	2.51	0.41
1:k:495:PHE:HB3	1:k:514:LEU:CD1	2.51	0.41
1:k:507:ARG:HA	1:k:508:PRO:HD3	1.96	0.41
1:k:594:ASN:O	1:k:595:SER:C	2.64	0.41
1:l:175:ARG:HG3	1:l:215:LEU:HD23	2.03	0.41
1:l:471:TYR:HD1	1:l:478:ALA:HB2	1.84	0.41
1:l:481:VAL:O	1:l:481:VAL:CG1	2.69	0.41
1:l:542:ALA:HB3	1:l:639:ASP:HB2	2.01	0.41
1:l:719:THR:HG22	1:m:728:SER:HA	2.03	0.41
1:m:267:VAL:O	1:m:268:LEU:HB2	2.20	0.41
1:m:388:ILE:H	1:m:388:ILE:HD13	1.86	0.41
1:m:547:PHE:CD2	1:m:561:LEU:HD23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:ARG:O	1:A:91:ARG:HB2	2.21	0.40
1:A:654:LEU:HD13	1:B:662:ILE:CD1	2.49	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:185:ARG:NH2	1:B:208:VAL:HG22	2.36	0.40
1:B:382:LEU:HD13	1:B:387:GLY:HA2	2.02	0.40
1:C:273:ILE:CG2	1:C:310:LEU:HD11	2.51	0.40
1:C:340:LEU:HG	1:C:353:ALA:H	1.86	0.40
1:D:227:LEU:CB	1:D:251:VAL:HG12	2.51	0.40
1:D:334:LEU:C	1:D:335:LYS:HG3	2.44	0.40
1:E:67:ARG:CD	1:E:108:ASP:HB3	2.50	0.40
1:E:426:LEU:HD21	1:E:495:PHE:CE1	2.56	0.40
1:E:452:ARG:HH11	1:E:452:ARG:CG	2.29	0.40
1:E:535:ALA:HA	1:F:658:VAL:HG21	2.02	0.40
1:F:334:LEU:C	1:F:334:LEU:HD23	2.46	0.40
1:F:335:LYS:CE	1:F:359:ILE:HD12	2.51	0.40
1:F:606:PHE:CA	1:F:622:ALA:HA	2.51	0.40
1:G:196:TRP:HA	1:G:196:TRP:HE3	1.84	0.40
1:G:276:LEU:HD12	1:G:278:PRO:HD2	2.03	0.40
1:H:690:ARG:HH22	1:I:698:GLU:HG3	1.86	0.40
1:I:63:ASN:N	1:I:64:PRO:HD2	2.37	0.40
1:I:113:GLN:OE1	1:I:150:THR:N	2.54	0.40
1:I:481:VAL:HG21	1:I:487:VAL:HG13	2.03	0.40
1:J:121:LEU:HD12	1:J:145:PHE:CD2	2.54	0.40
1:J:549:LEU:HD12	1:J:552:ARG:HA	2.03	0.40
1:K:60:ILE:H	1:K:60:ILE:CD1	2.20	0.40
1:K:245:THR:CG2	1:K:246:GLY:N	2.83	0.40
1:L:13:TYR:N	1:L:13:TYR:HD1	2.19	0.40
1:L:237:ASP:O	1:L:238:LEU:C	2.64	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:L:790:VAL:HG23	1:L:793:LYS:HZ2	1.86	0.40
1:M:67:ARG:HG2	1:M:108:ASP:HA	2.03	0.40
1:M:230:ARG:HD3	1:M:246:GLY:O	2.22	0.40
1:M:380:ILE:HA	1:M:381:PRO:HD3	1.86	0.40
1:M:385:ASN:HD22	1:M:385:ASN:HA	1.73	0.40
1:M:473:TYR:O	1:M:476:LYS:HE3	2.22	0.40
1:M:697:SER:HB3	1:N:706:LEU:HB2	2.02	0.40
1:N:197:LEU:HD22	1:N:197:LEU:HA	1.94	0.40
1:N:236:ARG:HB3	1:N:236:ARG:NH1	2.37	0.40
1:N:324:TYR:HE1	1:N:373:VAL:HG21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:HD23	1:P:242:LEU:H	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:117:PRO:O	1:Q:118:ASN:C	2.64	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:Q:675:HIS:CE1	1:R:681:GLU:HA	2.56	0.40
1:R:65:VAL:H	1:R:111:PRO:HD2	1.85	0.40
1:R:72:SER:HA	1:R:84:ARG:HG3	2.02	0.40
1:R:129:PHE:O	1:R:137:VAL:HG13	2.21	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:67:ARG:HE	1:T:107:LYS:C	2.28	0.40
1:T:128:ASP:OD1	1:T:131:ASP:HB3	2.21	0.40
1:T:663:GLU:OE1	1:T:663:GLU:HA	2.20	0.40
1:U:72:SER:HA	1:U:84:ARG:HE	1.86	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: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:5:GLU:O	1:X:41:GLU:O	2.38	0.40
1:X:11:PRO:CA	1:X:38:GLN:HA	2.46	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
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:Z:785:GLN:HA	1:a:790:VAL:CG2	2.38	0.40
1:b:383:ASP:H	1:b:386:GLU:HG2	1.85	0.40
1:b:589:ASP:HB2	1:c:665:THR:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:522:PHE:CD2	1:c:522:PHE:C	2.99	0.40
1:c:601:MET:O	1:c:604:PHE:O	2.38	0.40
1:c:752:ALA:O	1:c:755:THR:HG22	2.21	0.40
1:d:127:LEU:HB3	1:e:64:PRO:HD3	2.03	0.40
1:d:151:TYR:CD2	1:d:152:ILE:HD13	2.56	0.40
1:d:296:LEU:HD21	1:e:307:SER:HB3	2.02	0.40
1:d:401:VAL:HG11	1:d:406:TYR:CG	2.56	0.40
1:d:527:ILE:HD11	1:d:539:LEU:HD12	2.02	0.40
1:e:283:VAL:HG22	1:e:301:VAL:HG13	2.03	0.40
1:e:385:ASN:HD22	1:e:385:ASN:HA	1.69	0.40
1:f:130:GLU:H	1:f:137:VAL:CG1	2.29	0.40
1:f:338:GLN:HB2	1:f:339:PRO:CD	2.38	0.40
1:f:558:ALA:O	1:f:561:LEU:HD12	2.21	0.40
1:f:564:VAL:O	1:f:564:VAL:HG23	2.20	0.40
1:g:291:ASP:C	1:g:293:LYS:N	2.80	0.40
1:g:396:GLY:CA	1:h:405:THR:HG23	2.51	0.40
1:g:421:SER:C	1:g:423:VAL:N	2.77	0.40
1:g:467:ALA:HB2	1:g:482:PHE:CD2	2.55	0.40
1:h:68:ASP:HA	1:h:90:ILE:HA	2.01	0.40
1:h:109:ILE:CD1	1:h:153:PRO:CB	2.75	0.40
1:h:297:GLY:O	1:i:276:LEU:HD22	2.21	0.40
1:h:526:VAL:HA	1:h:539:LEU:O	2.21	0.40
1:h:771:ILE:HA	1:h:774:ARG:NH1	2.36	0.40
1:i:152:ILE:CD1	1:i:152:ILE:N	2.83	0.40
1:i:319:GLY:C	1:i:320:ILE:HD13	2.46	0.40
1:i:543:TYR:CD2	1:i:638:VAL:HG13	2.55	0.40
1:j:18:VAL:H	1:j:48:VAL:CG1	2.26	0.40
1:j:419:LEU:HD22	1:j:422:GLY:H	1.87	0.40
1:k:273:ILE:CG2	1:k:310:LEU:HD11	2.50	0.40
1:k:597:ARG:HG3	1:k:600:ARG:HH21	1.84	0.40
1:l:228:HIS:NE2	1:l:312:PRO:HB3	2.36	0.40
1:l:338:GLN:NE2	1:m:279:ARG:HD3	2.36	0.40
1:m:177:ARG:HH11	1:m:177:ARG:HB2	1.86	0.40
1:m:283:VAL:HB	1:m:317:GLU:HB3	2.04	0.40
1:m:802:LEU:HD12	1:m:806:THR:CG2	2.50	0.40
1:A:273:ILE:HD11	1:A:308:PHE:CD2	2.54	0.40
1:A:417:LYS:HE2	1:A:417:LYS:HB2	1.84	0.40
1:B:330:GLN:OE1	1:B:330:GLN:HA	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:758:GLU:O	1:C:762:VAL:HG23	2.22	0.40
1:D:70:GLN:O	1:D:70:GLN:HG3	2.20	0.40
1:D:359:ILE:HD13	1:D:359:ILE:H	1.86	0.40
1:E:67:ARG:NH2	1:E:107:LYS:HA	2.33	0.40
1:E:135:ASP:HB3	1:E:136:LYS:H	1.56	0.40
1:E:340:LEU:HG	1:E:353:ALA:HB2	2.03	0.40
1:E:728:SER:O	1:E:729:ARG:C	2.64	0.40
1:E:802:LEU:O	1:E:803:GLY:C	2.65	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:F:409:THR:O	1:F:410:GLN:C	2.63	0.40
1:F:414:LEU:HB3	1:F:455:THR:HG21	2.03	0.40
1:F:526:VAL:HG22	1:F:540:GLN:HG2	2.02	0.40
1:G:330:GLN:CB	1:G:379:ALA:HB3	2.44	0.40
1:G:452:ARG:HG3	1:G:452:ARG:HH11	1.86	0.40
1:G:527:ILE:CD1	1:G:539:LEU:HB2	2.49	0.40
1:H:36:ILE:O	1:H:37:ARG:HG3	2.21	0.40
1:I:267:VAL:O	1:I:268:LEU:HB2	2.20	0.40
1:J:287:PRO:O	1:J:295:GLN:HB2	2.21	0.40
1:J:417:LYS:HE2	1:J:491:PRO:O	2.21	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
1:L:173:ALA:HB1	1:L:198:VAL:O	2.21	0.40
1:L:564:VAL:HG22	1:L:631:ASN:HD22	1.82	0.40
1:M:336:ALA:HA	1:M:356:CYS:CB	2.52	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:O:36:ILE:HG21	1:O:99:LEU:CD1	2.51	0.40
1:O:120:ALA:HB3	1:O:162:ILE: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:P:255:ASP:CG	1:P:256:THR:H	2.28	0.40
1:Q:224:LYS:C	1:Q:272:PRO:HD3	2.46	0.40
1:Q:360:ARG:CD	1:Q:407:MET:HG2	2.51	0.40
1:Q:389:TYR:CE2	1:Q:457:VAL:HG22	2.56	0.40
1:Q:421:SER:C	1:Q:423:VAL:N	2.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:V:709:LEU:HA	1:V:712:MET:HE3	2.02	0.40
1:W:330:GLN:CD	1:W:407:MET:HG3	2.47	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: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:Z:684:ALA:C	1:Z:686:GLY:N	2.79	0.40
1:a:11:PRO:HB2	1:a:12:PRO:HD3	2.03	0.40
1:a:230:ARG:HB2	1:a:265:GLU:HB3	2.03	0.40
1:a:234:ASN:HD22	1:a:234:ASN:N	2.19	0.40
1:a:327:SER:O	1:a:328:GLU:HB2	2.21	0.40
1:a:458:VAL:CG1	1:a:489:LEU:HD12	2.51	0.40
1:a:759:LEU:HD22	1:b:768:MET:HG3	2.03	0.40
1:a:777:LEU:O	1:a:780:GLU:HB2	2.20	0.40
1:c:3:THR:HG22	1:c:50:MET:HE1	2.02	0.40
1:d:239:ARG:HH21	1:d:257:GLU:HG2	1.86	0.40
1:d:554:ASP:HA	1:d:555:PRO:HD3	1.94	0.40
1:e:70:GLN:CG	1:e:104:VAL:HG12	2.50	0.40
1:e:802:LEU:O	1:e:803:GLY:C	2.64	0.40
1:g:236:ARG:HB3	1:g:236:ARG:HH11	1.84	0.40
1:g:481:VAL:HG11	1:g:487:VAL:HG13	2.03	0.40
1:g:812:VAL:HG12	1:g:812:VAL:O	2.20	0.40
1:h:13:TYR:N	1:h:13:TYR:HD1	2.19	0.40
1:h:81:VAL:O	1:h:81:VAL:HG13	2.19	0.40
1:h:128:ASP:HB2	1:h:155:LYS:HB3	2.03	0.40
1:h:394:LYS:HA	1:i:329:GLN:NE2	2.35	0.40
1:h:653:ALA:CB	1:i:662:ILE:CD1	2.85	0.40
1:i:69:THR:HA	1:i:106:GLU:HB3	2.04	0.40
1:i:72:SER:OG	1:i:102:GLY:O	2.40	0.40
1:j:119:THR:HG21	1:j:161:GLU:HB2	2.03	0.40
1:j:152:ILE:HD12	1:j:152:ILE:H	1.82	0.40
1:j:333:LEU:HB2	1:j:359:ILE:HD11	2.03	0.40
1:j:588:PHE:CE2	1:k:662:ILE:CD1	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:130:GLU:HA	1:k:137:VAL:N	2.33	0.40
1:l:14:HIS:O	1:l:53:VAL:O	2.39	0.40
1:l:63:ASN:N	1:l:64:PRO:HD2	2.35	0.40
1:m:7:ILE:H	1:m:41:GLU:HG3	1.86	0.40
1:m:529:ILE:HD12	1:m:529:ILE:C	2.47	0.40
1:m:533:ASP:CG	1:m:588:PHE:H	2.28	0.40
1:m:789:ASN:C	1:m:791:GLU:N	2.79	0.40
1:A:90:ILE:HD12	1:A:90:ILE:C	2.46	0.40
1:A:220:ILE:O	1:A:253:VAL:HG22	2.22	0.40
1:A:678:GLN:O	1:A:681:GLU:HB3	2.22	0.40
1:A:747:LYS:HD3	1:A:747:LYS:HA	1.77	0.40
1:B:63:ASN:N	1:B:64:PRO:CD	2.83	0.40
1:C:328:GLU:O	1:C:329:GLN:C	2.63	0.40
1:D:67:ARG:HG2	1:D:108:ASP:CB	2.50	0.40
1:D:179:ARG:NH1	1:D:210:GLU:HG3	2.37	0.40
1:D:490:ASP:O	1:D:491:PRO:C	2.64	0.40
1:D:623:ARG:HG2	1:D:624:ASP:H	1.84	0.40
1:E:13:TYR:N	1:E:13:TYR:HD1	2.19	0.40
1:E:90:ILE:HG23	1:E:154:GLN:HB2	2.03	0.40
1:E:113:GLN:O	1:E:114:VAL:HG13	2.22	0.40
1:E:354:GLY:O	1:E:356:CYS:N	2.55	0.40
1:E:554:ASP:OD1	1:E:557:GLU:HB2	2.21	0.40
1:E:601:MET:HE2	1:E:601:MET:HB3	1.93	0.40
1:F:469:GLN:O	1:F:496:THR:HB	2.21	0.40
1:F:796:LYS:O	1:F:799:THR:HG22	2.21	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:H:5:GLU:OE1	1:H:43:VAL:HG11	2.21	0.40
1:I:114:VAL:HA	1:I:118:ASN:ND2	2.35	0.40
1:I:453:ASN:OD1	1:I:453:ASN:C	2.64	0.40
1:J:36:ILE:HD11	1:J:58:TYR:CE1	2.41	0.40
1:J:456:ARG:O	1:J:457:VAL:C	2.63	0.40
1:K:380:ILE:HA	1:K:381:PRO:HD3	1.92	0.40
1:L:354:GLY:CA	1:M:328:GLU:HG3	2.51	0.40
1:L:490:ASP:O	1:L:491:PRO:C	2.63	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:O	1:U:481:VAL:CG1	2.69	0.40
1:U:708:GLU:HG3	1:V:716:VAL:HG11	2.02	0.40
1:V:135:ASP:C	1:V:136:LYS:HG3	2.46	0.40
1:V:175:ARG:NH1	1:V:212:VAL:HG11	2.36	0.40
1:V:334:LEU:C	1:V:335:LYS:HG3	2.47	0.40
1:W:20:ASP:HB2	1:W:49:ARG:HD3	2.03	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:40:ASN:HB3	1:Y:42:ARG:HH11	1.87	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: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:Z:339:PRO:HD3	1:a:278:PRO:HB3	2.03	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:128:ASP:HB2	1:a:155:LYS:HB3	2.04	0.40
1:a:175:ARG:HG3	1:a:215:LEU:HD23	2.03	0.40
1:a:273:ILE:CD1	1:a:316:LEU:HD11	2.43	0.40
1:a:334:LEU:HD23	1:a:335:LYS:N	2.36	0.40
1:a:339:PRO:HG2	1:a:370:LYS:HE2	2.03	0.40
1:c:334:LEU:C	1:c:335:LYS:HG3	2.46	0.40
1:d:76:ASP:OD1	1:d:81:VAL:HA	2.21	0.40
1:d:90:ILE:HD11	1:d:152:ILE:HG22	2.03	0.40
1:d:154:GLN:CG	1:d:155:LYS:N	2.81	0.40
1:d:226:ALA:O	1:d:269:GLY:HA2	2.21	0.40
1:d:383:ASP:OD1	1:d:383:ASP:N	2.52	0.40
1:f:381:PRO:C	1:f:405:THR:HG22	2.44	0.40
1:f:398:VAL:HG11	1:f:415:TRP:CD2	2.56	0.40
1:f:529:ILE:HD12	1:f:529:ILE:C	2.46	0.40
1:f:529:ILE:HD12	1:f:529:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:114:VAL:CA	1:g:118:ASN:ND2	2.84	0.40
1:g:633:LEU:HD23	1:g:634:VAL:N	2.36	0.40
1:h:10:ILE:HG22	1:h:12:PRO:HD2	2.03	0.40
1:h:58:TYR:CG	1:h:98:PRO:HA	2.57	0.40
1:i:256:THR:HG23	1:i:256:THR:O	2.21	0.40
1:j:3:THR:CG2	1:j:50:MET:HE2	2.50	0.40
1:j:251:VAL:HG21	1:j:257:GLU:HG2	2.03	0.40
1:j:316:LEU:O	1:j:317:GLU:C	2.65	0.40
1:j:507:ARG:HA	1:j:508:PRO:HD3	1.93	0.40
1:k:340:LEU:HD23	1:k:352:GLN:HA	2.03	0.40
1:k:380:ILE:HD12	1:k:406:TYR:O	2.20	0.40
1:l:30:VAL:HG22	1:l:74:LEU:CD1	2.45	0.40
1:m:109:ILE:CD1	1:m:153:PRO:HG2	2.52	0.40
1:A:1:MET:O	1:A:2:ALA:CB	2.70	0.40
1:A:794:LYS:O	1:A:798:MET:HG2	2.21	0.40
1:B:481:VAL:HG21	1:B:487:VAL:HG13	2.04	0.40
1:B:564:VAL:HG22	1:B:631:ASN:ND2	2.37	0.40
1:C:16:ILE:HB	1:C:51:VAL:HB	2.03	0.40
1:C:288:MET:HE1	1:C:312:PRO:O	2.21	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:676:GLU:OE1	1:C:676:GLU:CA	2.68	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:D:734:ARG:HG2	1:E:742:LEU:HD12	2.02	0.40
1:E:360:ARG:HG3	1:E:361:GLY:N	2.37	0.40
1:E:768:MET:HE3	1:E:768:MET:HB3	1.91	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:F:725:GLU:O	1:F:728:SER:HB3	2.21	0.40
1:G:185:ARG:HG3	1:G:206:PRO:CB	2.52	0.40
1:G:335:LYS:HE2	1:G:371:VAL:HG11	2.02	0.40
1:G:745:LYS:HG3	1:H:753:ILE:CD1	2.51	0.40
1:H:328:GLU:CG	1:H:329:GLN:H	2.21	0.40
1:H:750:ALA:C	1:H:752:ALA:H	2.30	0.40
1:I:220:ILE:C	1:I:222:THR:N	2.79	0.40
1:I:338:GLN:OE1	1:J:278:PRO:HB2	2.22	0.40
1:J:13:TYR:N	1:J:13:TYR:CD1	2.90	0.40
1:J:220:ILE:C	1:J:222:THR:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:LYS:C	1:J:272:PRO:HD3	2.46	0.40
1:J:226:ALA:HB2	1:J:252:THR:HB	2.04	0.40
1:K:8:ILE:HG22	1:K:40:ASN:HD21	1.86	0.40
1:K:100:TYR:CB	1:K:101:PRO:CD	2.97	0.40
1:K:382:LEU:HD11	1:K:388:ILE:HD12	2.04	0.40
1:L:115:VAL:H	1:L:118:ASN:ND2	2.16	0.40
1:L:180:LYS:O	1:L:182:CYS:N	2.54	0.40
1:L:230:ARG:HH11	1:L:230:ARG:HB3	1.86	0.40
1:L:230:ARG:HD3	1:L:246:GLY:O	2.20	0.40
1:L:594:ASN:HB2	1:L:598:ILE:CD1	2.52	0.40
1:M:227:LEU:HD13	1:M:229:LEU:HD21	2.04	0.40
1:M:242:LEU:H	1:M:242:LEU:HD23	1.87	0.40
1:M:649:ARG:HH21	1:N:655:GLN:HG2	1.86	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: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:N	1:P:13:TYR:CD1	2.88	0.40
1:P:259:HIS:C	1:P:261:PRO:HD3	2.46	0.40
1:R:130:GLU:CD	1:R:136:LYS:HG2	2.46	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: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
1:U:759:LEU:HD22	1:V:768:MET:HG3	2.03	0.40
1:U:805:GLY:O	1:U:809:ASP:N	2.46	0.40
1:V:57:HIS:O	1:V:99:LEU:HD11	2.22	0.40
1:V:69:THR:HG21	1:V:91:ARG:CZ	2.51	0.40
1:V:497:VAL:HG12	1:V:498:LEU:N	2.37	0.40
1:W:113:GLN:CG	1:W:150:THR:HB	2.52	0.40
1:W:128:ASP:HB2	1:W:155:LYS:HB3	2.03	0.40
1:W:566:ASP:OD2	1:W:569:GLY:HA3	2.21	0.40
1:W:594:ASN:O	1:W:595:SER:C	2.65	0.40
1:W:747:LYS:O	1:W:748:ALA:C	2.63	0.40
1:X:533:ASP:O	1:X:534:HIS:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:549:LEU:HD22	1:X:549:LEU:HA	1.98	0.40
1:Y:9:ARG:CZ	1:Y:15:TYR:HB3	2.51	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:594:ASN:O	1:Y:595:SER:C	2.64	0.40
1:Y:787:LEU:O	1:Y:790:VAL:HG12	2.21	0.40
1:Z:573:LYS:HD2	1:a:542:ALA:HB2	2.04	0.40
1:Z:752:ALA:O	1:Z:756:GLU:HB2	2.21	0.40
1:a:74:LEU:HD22	1:a:100:TYR:CE2	2.55	0.40
1:a:296:LEU:H	1:a:296:LEU:HD13	1.85	0.40
1:a:326:LEU:CD2	1:a:333:LEU:HG	2.51	0.40
1:a:472:ASP:OD1	1:a:474:ARG:HG3	2.21	0.40
1:b:11:PRO:HB2	1:b:12:PRO:HD3	2.03	0.40
1:b:185:ARG:HH21	1:b:208:VAL:HG22	1.86	0.40
1:b:533:ASP:O	1:b:534:HIS:HB2	2.21	0.40
1:c:747:LYS:HB3	1:c:751:LEU:HD12	2.04	0.40
1:d:623:ARG:CG	1:d:624:ASP:N	2.84	0.40
1:e:20:ASP:HB2	1:e:49:ARG:HD3	2.02	0.40
1:g:93:ALA:C	1:g:95:ASP:H	2.29	0.40
1:g:340:LEU:HG	1:g:353:ALA:N	2.35	0.40
1:g:568:VAL:HG23	1:g:569:GLY:N	2.36	0.40
1:g:649:ARG:HE	1:g:649:ARG:HB3	1.60	0.40
1:h:3:THR:CG2	1:h:50:MET:HE2	2.52	0.40
1:h:30:VAL:HG22	1:h:74:LEU:HD11	2.03	0.40
1:h:46:ALA:H	1:h:47:PRO:HD3	1.85	0.40
1:h:192:THR:HG23	1:i:202:GLY:HA3	2.03	0.40
1:h:343:GLY:HA2	1:h:348:LYS:HA	2.04	0.40
1:h:394:LYS:HG2	1:i:329:GLN:CG	2.27	0.40
1:h:531:THR:HA	1:h:583:VAL:O	2.21	0.40
1:i:57:HIS:HB2	1:i:59:CYS:SG	2.61	0.40
1:i:383:ASP:OD1	1:i:383:ASP:N	2.54	0.40
1:i:383:ASP:C	1:i:385:ASN:N	2.79	0.40
1:i:578:ARG:HB3	1:i:602:ALA:O	2.22	0.40
1:j:495:PHE:CB	1:j:514:LEU:HD11	2.50	0.40
1:j:502:ALA:HB2	1:j:511:ARG:HB3	2.03	0.40
1:k:3:THR:O	1:k:5:GLU:OE2	2.39	0.40
1:k:60:ILE:N	1:k:60:ILE:HD12	2.37	0.40
1:k:74:LEU:HD12	1:k:84:ARG:CZ	2.52	0.40
1:k:335:LYS:NZ	1:k:335:LYS:HB2	2.36	0.40
1:k:579:VAL:HG13	1:k:599:ILE:HD12	2.04	0.40
1:l:85:HIS:NE2	1:l:102:GLY:HA3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:328:GLU:OE1	1:l:362:PRO:HA	2.21	0.40
1:l:360:ARG:NE	1:l:407:MET:HG2	2.37	0.40
1:l:385:ASN:HD22	1:l:385:ASN:HA	1.65	0.40
1:m:164:GLN:HB3	1:m:204:TYR:HA	2.02	0.40
1:m:189:GLY:O	1:m:196:TRP:HZ2	2.04	0.40
1:m:279:ARG:HA	1:m:323:VAL:HG22	2.04	0.40
1:m:285:LEU:O	1:m:286:ASP:C	2.64	0.40
1:A:10:ILE:HA	1:A:11:PRO:HD2	1.91	0.40
1:A:36:ILE:O	1:A:37:ARG:CG	2.69	0.40
1:A:113:GLN:OE1	1:A:150:THR:N	2.55	0.40
1:A:150:THR:HG23	1:A:151:TYR:N	2.36	0.40
1:A:732:ALA:HB2	1:m:722:ALA:HB1	2.03	0.40
1:B:14:HIS:NE2	1:B:16:ILE:HD11	2.36	0.40
1:B:130:GLU:CA	1:B:137:VAL:H	2.34	0.40
1:C:389:TYR:CZ	1:C:457:VAL:HA	2.56	0.40
1:C:394:LYS:HG2	1:D:329:GLN:CG	2.50	0.40
1:C:551:ASN:HB3	1:C:554:ASP:HB3	2.04	0.40
1:C:663:GLU:O	1:C:666:THR:HG22	2.20	0.40
1:D:77:ILE:CG1	1:D:80:GLN:CB	2.99	0.40
1:D:330:GLN:CD	1:D:407:MET:HG3	2.47	0.40
1:D:341:GLU:HG2	1:D:370:LYS:HD3	2.02	0.40
1:E:660:LEU:HA	1:E:663:GLU:HB3	2.04	0.40
1:F:154:GLN:HG3	1:F:155:LYS:N	2.37	0.40
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:128:ASP:HB2	1:G:155:LYS:HB3	2.03	0.40
1:G:685:ARG:HE	1:G:685:ARG:HB2	1.49	0.40
1:H:109:ILE:CD1	1:H:153:PRO:CG	2.99	0.40
1:H:194:GLU:HG2	1:H:195:GLU:H	1.86	0.40
1:H:414:LEU:HB3	1:H:455:THR:HG21	2.04	0.40
1:H:522:PHE:CD2	1:H:522:PHE:O	2.74	0.40
1:H:560:LYS:HD2	1:H:630:GLN:O	2.22	0.40
1:I:67:ARG:NH2	1:I:107:LYS:HA	2.29	0.40
1:I:180:LYS:O	1:I:181:GLU:C	2.64	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:J:65:VAL:HA	1:J:110:THR:HA	2.03	0.40
1:J:452:ARG:HH22	1:J:458:VAL:HG22	1.85	0.40
1:J:591:PHE:O	1:J:595:SER:N	2.52	0.40
1:J:807:ILE:CD1	1:K:806:THR:HG21	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1:MET:HE1	1:K:47:PRO:HB3	1.99	0.40
1:L:62:ALA:HB3	1:L:64:PRO:HG2	2.04	0.40
1:L:340:LEU:HD11	1:M:363:LEU:HD11	2.04	0.40
1:L:398:VAL:HG11	1:L:415:TRP:CD2	2.56	0.40
1:M:601:MET:HE3	1:M:606:PHE:HB3	2.04	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:O:766:ARG:HD3	1:P:772:TYR:HB2	2.03	0.40
1:P:276:LEU:O	1:P:277:GLY:C	2.64	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:HD22	1:P:549:LEU:HA	1.91	0.40
1:P:679:ARG:HG3	1:Q:691:GLN:HE22	1.87	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: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:R:772:TYR:C	1:R:774:ARG:H	2.29	0.40
1:S:225:THR:C	1:S:309:PHE:HZ	2.29	0.40
1:S:621:LYS:HE3	1:S:621:LYS:HA	2.03	0.40
1:T:3:THR:H	1:T:50:MET:HE1	1.87	0.40
1:T:279:ARG:HG3	1:T:280:HIS:HD2	1.85	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:H	1:T:384:GLN:NE2	2.19	0.40
1:T:399:ARG:NH1	1:T:399:ARG:HG2	2.36	0.40
1:T:501:SER:HB3	1:T:507:ARG:O	2.22	0.40
1:U:22:ASN:HD22	1:U:22:ASN:HA	1.71	0.40
1:U:227:LEU:HB2	1:U:251:VAL:CG1	2.51	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:V:601:MET:HE2	1:V:601:MET:HB3	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:476:LYS:CE	1:a:485:GLU:HG3	2.38	0.40
1:a:335:LYS:HE2	1:a:371:VAL:HG11	2.04	0.40
1:a:501:SER:HA	1:a:507:ARG:O	2.20	0.40
1:a:551:ASN:HB3	1:a:554:ASP:HB3	2.03	0.40
1:a:566:ASP:OD2	1:a:569:GLY:HA3	2.22	0.40
1:b:235:PHE:CE1	1:b:264:TYR:CE1	3.10	0.40
1:b:273:ILE:CG2	1:b:310:LEU:HD11	2.52	0.40
1:b:462:VAL:HG22	1:b:468:VAL:CG2	2.51	0.40
1:b:601:MET:CG	1:b:622:ALA:HB2	2.38	0.40
1:b:645:PRO:HG2	1:b:651:ARG:HG3	2.03	0.40
1:c:13:TYR:N	1:c:13:TYR:CD1	2.89	0.40
1:c:113:GLN:CG	1:c:150:THR:HB	2.27	0.40
1:c:273:ILE:HD12	1:c:316:LEU:HD21	2.02	0.40
1:d:227:LEU:HB2	1:d:251:VAL:HG13	2.02	0.40
1:d:228:HIS:HE2	1:d:312:PRO:HB3	1.87	0.40
1:d:273:ILE:CG2	1:d:310:LEU:HD11	2.51	0.40
1:d:337:LEU:HD23	1:d:337:LEU:H	1.85	0.40
1:e:109:ILE:O	1:e:109:ILE:HG13	2.20	0.40
1:e:151:TYR:N	1:e:151:TYR:HD1	2.20	0.40
1:e:383:ASP:O	1:e:385:ASN:N	2.55	0.40
1:e:746:LEU:HD23	1:e:749:GLN:HE21	1.87	0.40
1:f:62:ALA:O	1:f:93:ALA:HB2	2.21	0.40
1:g:414:LEU:HB3	1:g:455:THR:HG21	2.04	0.40
1:g:601:MET:HE2	1:g:601:MET:HB3	1.99	0.40
1:g:811:ALA:C	1:g:813:ALA:N	2.78	0.40
1:h:84:ARG:HG2	1:h:85:HIS:ND1	2.36	0.40
1:h:108:ASP:N	1:h:108:ASP:OD1	2.55	0.40
1:h:273:ILE:HD11	1:h:308:PHE:HD2	1.86	0.40
1:i:529:ILE:HD12	1:i:537:LEU:HB2	2.00	0.40
1:i:807:ILE:HG13	1:i:808:ARG:H	1.87	0.40
1:j:13:TYR:N	1:j:13:TYR:CD1	2.89	0.40
1:j:543:TYR:CE2	1:j:575:ILE:HG21	2.56	0.40
1:j:599:ILE:O	1:j:603:VAL:HG23	2.21	0.40
1:j:811:ALA:C	1:j:813:ALA:H	2.29	0.40
1:k:123:LEU:HG	1:k:143:TRP:HB2	2.03	0.40
1:k:164:GLN:CD	1:k:204:TYR:CB	2.95	0.40
1:k:600:ARG:HH11	1:k:622:ALA:HB3	1.79	0.40
1:l:16:ILE:HG13	1:l:53:VAL:HG21	2.04	0.40
1:l:224:LYS:C	1:l:272:PRO:HD3	2.46	0.40
1:l:251:VAL:HG21	1:l:257:GLU:HG2	2.04	0.40
1:l:660:LEU:HA	1:l:663:GLU:CB	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:10:ILE:H	1:m:10:ILE:CD1	2.27	0.40
1:m:537:LEU:HD21	1:m:588:PHE:HE1	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	776/861 (90%)	634 (82%)	119 (15%)	23 (3%)	3	25
1	B	776/861 (90%)	640 (82%)	114 (15%)	22 (3%)	4	26
1	C	776/861 (90%)	639 (82%)	109 (14%)	28 (4%)	2	22
1	D	776/861 (90%)	635 (82%)	108 (14%)	33 (4%)	2	18
1	E	776/861 (90%)	637 (82%)	107 (14%)	32 (4%)	2	19
1	F	776/861 (90%)	627 (81%)	118 (15%)	31 (4%)	2	19
1	G	776/861 (90%)	648 (84%)	101 (13%)	27 (4%)	3	23
1	H	776/861 (90%)	636 (82%)	109 (14%)	31 (4%)	2	19
1	I	776/861 (90%)	650 (84%)	98 (13%)	28 (4%)	2	22
1	J	776/861 (90%)	637 (82%)	109 (14%)	30 (4%)	2	20
1	K	776/861 (90%)	631 (81%)	104 (13%)	41 (5%)	1	14
1	L	776/861 (90%)	637 (82%)	103 (13%)	36 (5%)	2	17
1	M	776/861 (90%)	633 (82%)	107 (14%)	36 (5%)	2	17
1	N	776/861 (90%)	639 (82%)	102 (13%)	35 (4%)	2	17
1	O	776/861 (90%)	637 (82%)	102 (13%)	37 (5%)	2	16
1	P	776/861 (90%)	627 (81%)	117 (15%)	32 (4%)	2	19
1	Q	776/861 (90%)	633 (82%)	104 (13%)	39 (5%)	1	15
1	R	776/861 (90%)	627 (81%)	109 (14%)	40 (5%)	1	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	S	776/861 (90%)	624 (80%)	115 (15%)	37 (5%)	2	16
1	T	776/861 (90%)	631 (81%)	113 (15%)	32 (4%)	2	19
1	U	776/861 (90%)	642 (83%)	100 (13%)	34 (4%)	2	17
1	V	776/861 (90%)	639 (82%)	110 (14%)	27 (4%)	3	23
1	W	776/861 (90%)	647 (83%)	96 (12%)	33 (4%)	2	18
1	X	776/861 (90%)	648 (84%)	97 (12%)	31 (4%)	2	19
1	Y	776/861 (90%)	644 (83%)	98 (13%)	34 (4%)	2	17
1	Z	776/861 (90%)	649 (84%)	97 (12%)	30 (4%)	2	20
1	a	776/861 (90%)	639 (82%)	108 (14%)	29 (4%)	2	21
1	b	776/861 (90%)	635 (82%)	112 (14%)	29 (4%)	2	21
1	c	776/861 (90%)	642 (83%)	101 (13%)	33 (4%)	2	18
1	d	776/861 (90%)	630 (81%)	118 (15%)	28 (4%)	2	22
1	e	776/861 (90%)	629 (81%)	113 (15%)	34 (4%)	2	17
1	f	776/861 (90%)	642 (83%)	99 (13%)	35 (4%)	2	17
1	g	776/861 (90%)	637 (82%)	98 (13%)	41 (5%)	1	14
1	h	776/861 (90%)	639 (82%)	97 (12%)	40 (5%)	1	14
1	i	776/861 (90%)	634 (82%)	104 (13%)	38 (5%)	1	16
1	j	776/861 (90%)	634 (82%)	107 (14%)	35 (4%)	2	17
1	k	776/861 (90%)	633 (82%)	105 (14%)	38 (5%)	1	16
1	l	748/861 (87%)	616 (82%)	97 (13%)	35 (5%)	2	17
1	m	776/861 (90%)	634 (82%)	108 (14%)	34 (4%)	2	17
All	All	30236/33579 (90%)	24815 (82%)	4133 (14%)	1288 (4%)	2	18

All (1288) 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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	j	339	PRO
1	j	520	PRO
1	j	812	VAL
1	k	277	GLY
1	k	339	PRO
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
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

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Mol	Chain	Res	Type
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
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%)	530 (80%)	133 (20%)	1	7
1	B	663/727 (91%)	542 (82%)	121 (18%)	2	10
1	C	663/727 (91%)	533 (80%)	130 (20%)	1	8
1	D	663/727 (91%)	528 (80%)	135 (20%)	1	7
1	E	663/727 (91%)	542 (82%)	121 (18%)	2	10
1	F	663/727 (91%)	531 (80%)	132 (20%)	1	7
1	G	663/727 (91%)	529 (80%)	134 (20%)	1	7
1	H	663/727 (91%)	529 (80%)	134 (20%)	1	7
1	I	663/727 (91%)	520 (78%)	143 (22%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	663/727 (91%)	521 (79%)	142 (21%)	1	6
1	K	663/727 (91%)	520 (78%)	143 (22%)	1	6
1	L	663/727 (91%)	525 (79%)	138 (21%)	1	6
1	M	663/727 (91%)	527 (80%)	136 (20%)	1	7
1	N	663/727 (91%)	532 (80%)	131 (20%)	1	7
1	O	663/727 (91%)	527 (80%)	136 (20%)	1	7
1	P	663/727 (91%)	522 (79%)	141 (21%)	1	6
1	Q	663/727 (91%)	521 (79%)	142 (21%)	1	6
1	R	645/727 (89%)	504 (78%)	141 (22%)	1	5
1	S	663/727 (91%)	532 (80%)	131 (20%)	1	7
1	T	663/727 (91%)	538 (81%)	125 (19%)	1	9
1	U	663/727 (91%)	534 (80%)	129 (20%)	1	8
1	V	663/727 (91%)	535 (81%)	128 (19%)	1	8
1	W	663/727 (91%)	540 (81%)	123 (19%)	1	9
1	X	663/727 (91%)	533 (80%)	130 (20%)	1	8
1	Y	663/727 (91%)	538 (81%)	125 (19%)	1	9
1	Z	663/727 (91%)	529 (80%)	134 (20%)	1	7
1	a	663/727 (91%)	530 (80%)	133 (20%)	1	7
1	b	663/727 (91%)	521 (79%)	142 (21%)	1	6
1	c	663/727 (91%)	529 (80%)	134 (20%)	1	7
1	d	663/727 (91%)	536 (81%)	127 (19%)	1	8
1	e	663/727 (91%)	525 (79%)	138 (21%)	1	6
1	f	663/727 (91%)	537 (81%)	126 (19%)	1	8
1	g	663/727 (91%)	523 (79%)	140 (21%)	1	6
1	h	663/727 (91%)	526 (79%)	137 (21%)	1	6
1	i	663/727 (91%)	533 (80%)	130 (20%)	1	8
1	j	663/727 (91%)	527 (80%)	136 (20%)	1	7
1	k	663/727 (91%)	526 (79%)	137 (21%)	1	6
1	l	663/727 (91%)	526 (79%)	137 (21%)	1	6
1	m	663/727 (91%)	537 (81%)	126 (19%)	1	8
All	All	25839/28353 (91%)	20638 (80%)	5201 (20%)	1	7

All (5201) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	3	THR
1	A	9	ARG
1	A	18	VAL
1	A	23	SER
1	A	33	LYS
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	65	VAL
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	135	ASP
1	A	136	LYS
1	A	137	VAL
1	A	138	MET
1	A	144	LEU
1	A	145	PHE
1	A	152	ILE
1	A	155	LYS
1	A	160	VAL
1	A	161	GLU
1	A	162	ILE
1	A	163	ILE
1	A	167	VAL

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Mol	Chain	Res	Type
1	A	169	LYS
1	A	175	ARG
1	A	177	ARG
1	A	191	VAL
1	A	196	TRP
1	A	197	LEU
1	A	198	VAL
1	A	205	LEU
1	A	213	LEU
1	A	215	LEU
1	A	219	VAL
1	A	222	THR
1	A	230	ARG
1	A	236	ARG
1	A	238	LEU
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	330	GLN
1	A	332	LEU
1	A	334	LEU
1	A	335	LYS
1	A	341	GLU
1	A	342	GLU
1	A	356	CYS

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Mol	Chain	Res	Type
1	A	359	ILE
1	A	363	LEU
1	A	373	VAL
1	A	380	ILE
1	A	384	GLN
1	A	385	ASN
1	A	402	ILE
1	A	407	MET
1	A	417	LYS
1	A	418	GLU
1	A	425	GLU
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	518	LEU
1	A	523	PHE
1	A	524	THR
1	A	528	THR
1	A	549	LEU
1	A	557	GLU
1	A	580	ARG
1	A	585	SER
1	A	587	THR
1	A	595	SER
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	742	LEU
1	A	747	LYS
1	A	755	THR

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Mol	Chain	Res	Type
1	A	763	LYS
1	A	766	ARG
1	A	770	LEU
1	A	779	LEU
1	A	806	THR
1	A	807	ILE
1	A	808	ARG
1	B	1	MET
1	B	3	THR
1	B	10	ILE
1	B	18	VAL
1	B	23	SER
1	B	30	VAL
1	B	33	LYS
1	B	36	ILE
1	B	38	GLN
1	B	41	GLU
1	B	60	ILE
1	B	61	VAL
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	162	ILE
1	B	163	ILE
1	B	175	ARG
1	B	177	ARG

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Mol	Chain	Res	Type
1	B	191	VAL
1	B	197	LEU
1	B	199	ARG
1	B	205	LEU
1	B	208	VAL
1	B	213	LEU
1	B	219	VAL
1	B	222	THR
1	B	230	ARG
1	B	236	ARG
1	B	238	LEU
1	B	249	TRP
1	B	253	VAL
1	B	254	GLN
1	B	257	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	320	ILE
1	B	321	GLN
1	B	322	ASP
1	B	328	GLU
1	B	334	LEU
1	B	335	LYS
1	B	341	GLU
1	B	345	SER
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	384	GLN
1	B	385	ASN
1	B	407	MET
1	B	418	GLU
1	B	425	GLU

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Mol	Chain	Res	Type
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
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	600	ARG
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	691	GLN
1	B	692	LYS
1	B	698	GLU
1	B	706	LEU
1	B	721	ASN
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

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Mol	Chain	Res	Type
1	B	806	THR
1	B	810	LEU
1	C	1	MET
1	C	3	THR
1	C	18	VAL
1	C	23	SER
1	C	30	VAL
1	C	35	TYR
1	C	36	ILE
1	C	38	GLN
1	C	50	MET
1	C	56	ARG
1	C	60	ILE
1	C	61	VAL
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	107	LYS
1	C	110	THR
1	C	114	VAL
1	C	115	VAL
1	C	118	ASN
1	C	119	THR
1	C	127	LEU
1	C	131	ASP
1	C	135	ASP
1	C	137	VAL
1	C	138	MET
1	C	144	LEU
1	C	151	TYR
1	C	155	LYS
1	C	160	VAL
1	C	161	GLU
1	C	163	ILE
1	C	167	VAL
1	C	169	LYS
1	C	175	ARG
1	C	177	ARG

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Mol	Chain	Res	Type
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	238	LEU
1	C	242	LEU
1	C	243	HIS
1	C	249	TRP
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	314	GLU
1	C	320	ILE
1	C	321	GLN
1	C	322	ASP
1	C	328	GLU
1	C	335	LYS
1	C	341	GLU
1	C	345	SER
1	C	358	LEU
1	C	359	ILE
1	C	363	LEU
1	C	373	VAL
1	C	380	ILE
1	C	384	GLN

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Mol	Chain	Res	Type
1	C	385	ASN
1	C	402	ILE
1	C	407	MET
1	C	416	GLU
1	C	417	LYS
1	C	418	GLU
1	C	425	GLU
1	C	426	LEU
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
1	C	528	THR
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	648	GLN
1	C	654	LEU
1	C	666	THR
1	C	668	SER
1	C	683	GLU
1	C	688	LEU
1	C	692	LYS
1	C	698	GLU
1	C	706	LEU
1	C	742	LEU
1	C	755	THR
1	C	770	LEU
1	C	771	ILE
1	C	778	GLU
1	C	779	LEU

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Mol	Chain	Res	Type
1	C	787	LEU
1	C	794	LYS
1	C	806	THR
1	C	807	ILE
1	C	808	ARG
1	C	812	VAL
1	D	1	MET
1	D	3	THR
1	D	10	ILE
1	D	18	VAL
1	D	23	SER
1	D	30	VAL
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	61	VAL
1	D	65	VAL
1	D	70	GLN
1	D	74	LEU
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	155	LYS
1	D	160	VAL

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Mol	Chain	Res	Type
1	D	161	GLU
1	D	162	ILE
1	D	163	ILE
1	D	166	THR
1	D	169	LYS
1	D	177	ARG
1	D	191	VAL
1	D	197	LEU
1	D	204	TYR
1	D	205	LEU
1	D	208	VAL
1	D	209	PHE
1	D	213	LEU
1	D	219	VAL
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	250	LEU
1	D	253	VAL
1	D	257	GLU
1	D	259	HIS
1	D	266	GLU
1	D	267	VAL
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	320	ILE
1	D	321	GLN
1	D	322	ASP
1	D	328	GLU
1	D	335	LYS

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Mol	Chain	Res	Type
1	D	337	LEU
1	D	341	GLU
1	D	358	LEU
1	D	359	ILE
1	D	363	LEU
1	D	373	VAL
1	D	380	ILE
1	D	384	GLN
1	D	385	ASN
1	D	388	ILE
1	D	407	MET
1	D	417	LYS
1	D	418	GLU
1	D	425	GLU
1	D	452	ARG
1	D	474	ARG
1	D	486	LEU
1	D	487	VAL
1	D	490	ASP
1	D	496	THR
1	D	501	SER
1	D	516	LEU
1	D	517	LEU
1	D	518	LEU
1	D	522	PHE
1	D	527	ILE
1	D	536	ARG
1	D	539	LEU
1	D	549	LEU
1	D	551	ASN
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	627	VAL
1	D	633	LEU
1	D	642	SER
1	D	648	GLN
1	D	654	LEU
1	D	662	ILE

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Mol	Chain	Res	Type
1	D	666	THR
1	D	668	SER
1	D	683	GLU
1	D	692	LYS
1	D	706	LEU
1	D	742	LEU
1	D	755	THR
1	D	764	LYS
1	D	765	VAL
1	D	770	LEU
1	D	771	ILE
1	D	778	GLU
1	D	779	LEU
1	D	806	THR
1	D	807	ILE
1	E	1	MET
1	E	3	THR
1	E	8	ILE
1	E	18	VAL
1	E	30	VAL
1	E	35	TYR
1	E	36	ILE
1	E	38	GLN
1	E	52	THR
1	E	57	HIS
1	E	60	ILE
1	E	70	GLN
1	E	73	VAL
1	E	74	LEU
1	E	75	PHE
1	E	78	THR
1	E	83	LEU
1	E	90	ILE
1	E	95	ASP
1	E	110	THR
1	E	115	VAL
1	E	118	ASN
1	E	119	THR
1	E	127	LEU
1	E	130	GLU
1	E	131	ASP
1	E	133	ASN

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Mol	Chain	Res	Type
1	E	135	ASP
1	E	136	LYS
1	E	138	MET
1	E	144	LEU
1	E	152	ILE
1	E	155	LYS
1	E	160	VAL
1	E	161	GLU
1	E	163	ILE
1	E	167	VAL
1	E	174	LEU
1	E	175	ARG
1	E	177	ARG
1	E	191	VAL
1	E	197	LEU
1	E	199	ARG
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	236	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	270	VAL
1	E	271	VAL
1	E	276	LEU
1	E	281	TYR
1	E	284	ILE
1	E	286	ASP
1	E	296	LEU
1	E	308	PHE
1	E	320	ILE
1	E	321	GLN

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Mol	Chain	Res	Type
1	E	322	ASP
1	E	325	VAL
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	384	GLN
1	E	385	ASN
1	E	407	MET
1	E	417	LYS
1	E	418	GLU
1	E	425	GLU
1	E	452	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	524	THR
1	E	536	ARG
1	E	539	LEU
1	E	549	LEU
1	E	580	ARG
1	E	585	SER
1	E	587	THR
1	E	595	SER
1	E	601	MET
1	E	621	LYS
1	E	648	GLN
1	E	654	LEU
1	E	666	THR
1	E	668	SER
1	E	683	GLU
1	E	690	ARG
1	E	692	LYS

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Mol	Chain	Res	Type
1	E	706	LEU
1	E	742	LEU
1	E	755	THR
1	E	763	LYS
1	E	769	GLU
1	E	770	LEU
1	E	778	GLU
1	E	779	LEU
1	E	806	THR
1	E	810	LEU
1	F	1	MET
1	F	3	THR
1	F	10	ILE
1	F	17	HIS
1	F	18	VAL
1	F	22	ASN
1	F	23	SER
1	F	30	VAL
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	104	VAL
1	F	110	THR
1	F	115	VAL
1	F	119	THR
1	F	127	LEU
1	F	131	ASP
1	F	132	LYS
1	F	138	MET
1	F	152	ILE
1	F	155	LYS
1	F	160	VAL

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Mol	Chain	Res	Type
1	F	161	GLU
1	F	162	ILE
1	F	163	ILE
1	F	167	VAL
1	F	169	LYS
1	F	175	ARG
1	F	177	ARG
1	F	191	VAL
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	227	LEU
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	253	VAL
1	F	254	GLN
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	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

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Mol	Chain	Res	Type
1	F	330	GLN
1	F	332	LEU
1	F	335	LYS
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	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	425	GLU
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	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	627	VAL
1	F	635	VAL
1	F	648	GLN
1	F	654	LEU
1	F	666	THR

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Mol	Chain	Res	Type
1	F	668	SER
1	F	683	GLU
1	F	690	ARG
1	F	692	LYS
1	F	706	LEU
1	F	714	MET
1	F	742	LEU
1	F	755	THR
1	F	765	VAL
1	F	770	LEU
1	F	771	ILE
1	F	778	GLU
1	F	779	LEU
1	F	790	VAL
1	F	806	THR
1	F	807	ILE
1	G	1	MET
1	G	3	THR
1	G	10	ILE
1	G	13	TYR
1	G	18	VAL
1	G	23	SER
1	G	30	VAL
1	G	36	ILE
1	G	38	GLN
1	G	50	MET
1	G	56	ARG
1	G	60	ILE
1	G	61	VAL
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	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

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Mol	Chain	Res	Type
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	191	VAL
1	G	196	TRP
1	G	197	LEU
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	266	GLU
1	G	267	VAL
1	G	268	LEU
1	G	270	VAL
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

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Mol	Chain	Res	Type
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
1	G	380	ILE
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	425	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	524	THR
1	G	527	ILE
1	G	528	THR
1	G	536	ARG
1	G	549	LEU
1	G	561	LEU
1	G	580	ARG
1	G	586	VAL
1	G	587	THR
1	G	601	MET
1	G	621	LYS

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Mol	Chain	Res	Type
1	G	627	VAL
1	G	640	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	706	LEU
1	G	721	ASN
1	G	742	LEU
1	G	755	THR
1	G	756	GLU
1	G	763	LYS
1	G	764	LYS
1	G	766	ARG
1	G	770	LEU
1	G	781	VAL
1	G	790	VAL
1	G	802	LEU
1	G	806	THR
1	G	810	LEU
1	H	1	MET
1	H	3	THR
1	H	18	VAL
1	H	33	LYS
1	H	36	ILE
1	H	38	GLN
1	H	50	MET
1	H	52	THR
1	H	60	ILE
1	H	61	VAL
1	H	70	GLN
1	H	74	LEU
1	H	83	LEU
1	H	84	ARG
1	H	90	ILE
1	H	104	VAL
1	H	110	THR
1	H	115	VAL

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Mol	Chain	Res	Type
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	151	TYR
1	H	152	ILE
1	H	155	LYS
1	H	160	VAL
1	H	161	GLU
1	H	163	ILE
1	H	166	THR
1	H	167	VAL
1	H	175	ARG
1	H	179	ARG
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	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

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Mol	Chain	Res	Type
1	H	286	ASP
1	H	296	LEU
1	H	306	LYS
1	H	308	PHE
1	H	310	LEU
1	H	320	ILE
1	H	321	GLN
1	H	322	ASP
1	H	325	VAL
1	H	330	GLN
1	H	335	LYS
1	H	341	GLU
1	H	358	LEU
1	H	359	ILE
1	H	360	ARG
1	H	363	LEU
1	H	366	VAL
1	H	373	VAL
1	H	380	ILE
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	425	GLU
1	H	474	ARG
1	H	479	ARG
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	527	ILE
1	H	528	THR
1	H	536	ARG
1	H	539	LEU

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Mol	Chain	Res	Type
1	H	541	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	627	VAL
1	H	640	VAL
1	H	648	GLN
1	H	649	ARG
1	H	654	LEU
1	H	666	THR
1	H	683	GLU
1	H	685	ARG
1	H	692	LYS
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	762	VAL
1	H	765	VAL
1	H	769	GLU
1	H	770	LEU
1	H	778	GLU
1	H	779	LEU
1	H	806	THR
1	H	807	ILE
1	H	810	LEU
1	I	1	MET
1	I	3	THR
1	I	18	VAL
1	I	30	VAL
1	I	36	ILE
1	I	38	GLN
1	I	41	GLU
1	I	50	MET
1	I	52	THR
1	I	53	VAL

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Mol	Chain	Res	Type
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	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	136	LYS
1	I	137	VAL
1	I	145	PHE
1	I	151	TYR
1	I	152	ILE
1	I	155	LYS
1	I	160	VAL
1	I	161	GLU
1	I	162	ILE
1	I	163	ILE
1	I	167	VAL
1	I	169	LYS
1	I	175	ARG
1	I	177	ARG
1	I	191	VAL
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	215	LEU
1	I	216	VAL
1	I	219	VAL
1	I	221	LEU

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Mol	Chain	Res	Type
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	241	VAL
1	I	242	LEU
1	I	249	TRP
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	284	ILE
1	I	286	ASP
1	I	295	GLN
1	I	296	LEU
1	I	301	VAL
1	I	306	LYS
1	I	308	PHE
1	I	310	LEU
1	I	320	ILE
1	I	322	ASP
1	I	330	GLN
1	I	332	LEU
1	I	334	LEU
1	I	335	LYS
1	I	340	LEU
1	I	341	GLU
1	I	358	LEU
1	I	359	ILE
1	I	363	LEU
1	I	366	VAL
1	I	380	ILE
1	I	383	ASP
1	I	384	GLN
1	I	385	ASN
1	I	388	ILE

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Mol	Chain	Res	Type
1	I	407	MET
1	I	418	GLU
1	I	425	GLU
1	I	474	ARG
1	I	479	ARG
1	I	486	LEU
1	I	487	VAL
1	I	490	ASP
1	I	496	THR
1	I	504	ARG
1	I	516	LEU
1	I	517	LEU
1	I	518	LEU
1	I	523	PHE
1	I	527	ILE
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	601	MET
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	706	LEU
1	I	709	LEU
1	I	741	VAL
1	I	742	LEU
1	I	747	LYS
1	I	755	THR
1	I	763	LYS
1	I	766	ARG
1	I	769	GLU
1	I	770	LEU
1	I	778	GLU
1	I	779	LEU
1	I	780	GLU

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Mol	Chain	Res	Type
1	I	790	VAL
1	I	793	LYS
1	I	806	THR
1	I	808	ARG
1	I	809	ASP
1	I	810	LEU
1	I	812	VAL
1	J	1	MET
1	J	3	THR
1	J	18	VAL
1	J	30	VAL
1	J	36	ILE
1	J	38	GLN
1	J	41	GLU
1	J	42	ARG
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	90	ILE
1	J	107	LYS
1	J	108	ASP
1	J	114	VAL
1	J	115	VAL
1	J	119	THR
1	J	127	LEU
1	J	130	GLU
1	J	131	ASP
1	J	133	ASN
1	J	135	ASP
1	J	136	LYS
1	J	137	VAL
1	J	138	MET
1	J	144	LEU
1	J	151	TYR
1	J	152	ILE
1	J	155	LYS
1	J	160	VAL

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Mol	Chain	Res	Type
1	J	161	GLU
1	J	163	ILE
1	J	167	VAL
1	J	169	LYS
1	J	175	ARG
1	J	177	ARG
1	J	179	ARG
1	J	191	VAL
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	227	LEU
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	267	VAL
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	295	GLN
1	J	296	LEU
1	J	298	GLN
1	J	300	ARG
1	J	301	VAL
1	J	302	VAL
1	J	310	LEU
1	J	318	ARG
1	J	320	ILE

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Mol	Chain	Res	Type
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	384	GLN
1	J	385	ASN
1	J	388	ILE
1	J	395	THR
1	J	402	ILE
1	J	407	MET
1	J	417	LYS
1	J	418	GLU
1	J	421	SER
1	J	425	GLU
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	527	ILE
1	J	536	ARG
1	J	539	LEU
1	J	549	LEU
1	J	560	LYS
1	J	561	LEU
1	J	580	ARG
1	J	586	VAL
1	J	587	THR

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Mol	Chain	Res	Type
1	J	595	SER
1	J	621	LYS
1	J	627	VAL
1	J	640	VAL
1	J	648	GLN
1	J	654	LEU
1	J	666	THR
1	J	668	SER
1	J	689	GLU
1	J	692	LYS
1	J	706	LEU
1	J	709	LEU
1	J	721	ASN
1	J	742	LEU
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	802	LEU
1	J	806	THR
1	J	808	ARG
1	K	1	MET
1	K	3	THR
1	K	13	TYR
1	K	18	VAL
1	K	36	ILE
1	K	38	GLN
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	82	ARG
1	K	83	LEU
1	K	84	ARG
1	K	104	VAL
1	K	108	ASP
1	K	110	THR

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Mol	Chain	Res	Type
1	K	114	VAL
1	K	115	VAL
1	K	119	THR
1	K	123	LEU
1	K	124	LYS
1	K	127	LEU
1	K	131	ASP
1	K	133	ASN
1	K	135	ASP
1	K	136	LYS
1	K	137	VAL
1	K	138	MET
1	K	141	ASP
1	K	144	LEU
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	167	VAL
1	K	170	GLN
1	K	175	ARG
1	K	177	ARG
1	K	191	VAL
1	K	192	THR
1	K	196	TRP
1	K	197	LEU
1	K	199	ARG
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

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Mol	Chain	Res	Type
1	K	241	VAL
1	K	242	LEU
1	K	249	TRP
1	K	252	THR
1	K	253	VAL
1	K	257	GLU
1	K	266	GLU
1	K	267	VAL
1	K	268	LEU
1	K	270	VAL
1	K	271	VAL
1	K	276	LEU
1	K	284	ILE
1	K	286	ASP
1	K	293	LYS
1	K	295	GLN
1	K	296	LEU
1	K	301	VAL
1	K	308	PHE
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	360	ARG
1	K	363	LEU
1	K	366	VAL
1	K	373	VAL
1	K	380	ILE
1	K	384	GLN
1	K	385	ASN
1	K	388	ILE
1	K	393	VAL
1	K	395	THR
1	K	407	MET
1	K	418	GLU
1	K	421	SER

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Mol	Chain	Res	Type
1	K	424	GLU
1	K	425	GLU
1	K	479	ARG
1	K	486	LEU
1	K	487	VAL
1	K	516	LEU
1	K	517	LEU
1	K	518	LEU
1	K	527	ILE
1	K	528	THR
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	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	763	LYS
1	K	769	GLU
1	K	771	ILE
1	K	779	LEU
1	K	780	GLU
1	K	790	VAL
1	K	802	LEU
1	K	806	THR
1	K	810	LEU
1	L	1	MET
1	L	3	THR

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Mol	Chain	Res	Type
1	L	18	VAL
1	L	36	ILE
1	L	38	GLN
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	90	ILE
1	L	104	VAL
1	L	107	LYS
1	L	110	THR
1	L	114	VAL
1	L	115	VAL
1	L	119	THR
1	L	123	LEU
1	L	127	LEU
1	L	131	ASP
1	L	132	LYS
1	L	135	ASP
1	L	136	LYS
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	163	ILE
1	L	167	VAL
1	L	169	LYS
1	L	175	ARG
1	L	177	ARG
1	L	191	VAL
1	L	192	THR

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Mol	Chain	Res	Type
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
1	L	225	THR
1	L	227	LEU
1	L	230	ARG
1	L	232	LEU
1	L	238	LEU
1	L	241	VAL
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	270	VAL
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	358	LEU
1	L	363	LEU
1	L	366	VAL
1	L	373	VAL

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Mol	Chain	Res	Type
1	L	380	ILE
1	L	384	GLN
1	L	385	ASN
1	L	388	ILE
1	L	393	VAL
1	L	395	THR
1	L	407	MET
1	L	418	GLU
1	L	425	GLU
1	L	479	ARG
1	L	486	LEU
1	L	487	VAL
1	L	490	ASP
1	L	496	THR
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	586	VAL
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	660	LEU
1	L	666	THR
1	L	668	SER
1	L	670	GLU
1	L	683	GLU
1	L	692	LYS
1	L	706	LEU
1	L	713	SER
1	L	721	ASN

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Mol	Chain	Res	Type
1	L	742	LEU
1	L	747	LYS
1	L	755	THR
1	L	763	LYS
1	L	766	ARG
1	L	770	LEU
1	L	778	GLU
1	L	779	LEU
1	L	807	ILE
1	L	810	LEU
1	M	1	MET
1	M	3	THR
1	M	13	TYR
1	M	18	VAL
1	M	23	SER
1	M	30	VAL
1	M	33	LYS
1	M	36	ILE
1	M	38	GLN
1	M	41	GLU
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	112	LEU
1	M	114	VAL
1	M	115	VAL
1	M	119	THR
1	M	127	LEU
1	M	131	ASP

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Mol	Chain	Res	Type
1	M	132	LYS
1	M	133	ASN
1	M	135	ASP
1	M	136	LYS
1	M	137	VAL
1	M	144	LEU
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	162	ILE
1	M	163	ILE
1	M	164	GLN
1	M	167	VAL
1	M	169	LYS
1	M	177	ARG
1	M	191	VAL
1	M	192	THR
1	M	197	LEU
1	M	199	ARG
1	M	204	TYR
1	M	205	LEU
1	M	213	LEU
1	M	219	VAL
1	M	221	LEU
1	M	222	THR
1	M	225	THR
1	M	230	ARG
1	M	238	LEU
1	M	241	VAL
1	M	242	LEU
1	M	250	LEU
1	M	253	VAL
1	M	257	GLU
1	M	267	VAL
1	M	268	LEU
1	M	271	VAL
1	M	276	LEU
1	M	284	ILE
1	M	286	ASP

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Mol	Chain	Res	Type
1	M	295	GLN
1	M	296	LEU
1	M	301	VAL
1	M	307	SER
1	M	308	PHE
1	M	314	GLU
1	M	318	ARG
1	M	320	ILE
1	M	322	ASP
1	M	334	LEU
1	M	335	LYS
1	M	341	GLU
1	M	342	GLU
1	M	358	LEU
1	M	363	LEU
1	M	373	VAL
1	M	380	ILE
1	M	384	GLN
1	M	385	ASN
1	M	388	ILE
1	M	393	VAL
1	M	395	THR
1	M	402	ILE
1	M	407	MET
1	M	413	VAL
1	M	418	GLU
1	M	425	GLU
1	M	479	ARG
1	M	486	LEU
1	M	487	VAL
1	M	490	ASP
1	M	496	THR
1	M	497	VAL
1	M	516	LEU
1	M	517	LEU
1	M	518	LEU
1	M	527	ILE
1	M	533	ASP
1	M	536	ARG
1	M	539	LEU
1	M	549	LEU
1	M	561	LEU

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Mol	Chain	Res	Type
1	M	580	ARG
1	M	586	VAL
1	M	587	THR
1	M	595	SER
1	M	601	MET
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	742	LEU
1	M	747	LYS
1	M	755	THR
1	M	770	LEU
1	M	779	LEU
1	M	780	GLU
1	M	806	THR
1	N	1	MET
1	N	3	THR
1	N	13	TYR
1	N	18	VAL
1	N	23	SER
1	N	36	ILE
1	N	38	GLN
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	73	VAL
1	N	74	LEU
1	N	82	ARG
1	N	83	LEU
1	N	84	ARG
1	N	90	ILE
1	N	104	VAL
1	N	108	ASP
1	N	114	VAL

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Mol	Chain	Res	Type
1	N	119	THR
1	N	127	LEU
1	N	131	ASP
1	N	135	ASP
1	N	136	LYS
1	N	138	MET
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	191	VAL
1	N	192	THR
1	N	197	LEU
1	N	199	ARG
1	N	204	TYR
1	N	205	LEU
1	N	213	LEU
1	N	219	VAL
1	N	221	LEU
1	N	222	THR
1	N	225	THR
1	N	230	ARG
1	N	238	LEU
1	N	241	VAL
1	N	242	LEU
1	N	250	LEU
1	N	253	VAL
1	N	254	GLN
1	N	257	GLU
1	N	266	GLU
1	N	267	VAL
1	N	268	LEU
1	N	270	VAL
1	N	271	VAL
1	N	276	LEU

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Mol	Chain	Res	Type
1	N	284	ILE
1	N	286	ASP
1	N	296	LEU
1	N	301	VAL
1	N	306	LYS
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	330	GLN
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	384	GLN
1	N	385	ASN
1	N	388	ILE
1	N	395	THR
1	N	407	MET
1	N	417	LYS
1	N	418	GLU
1	N	424	GLU
1	N	425	GLU
1	N	474	ARG
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	518	LEU
1	N	533	ASP

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Mol	Chain	Res	Type
1	N	536	ARG
1	N	539	LEU
1	N	549	LEU
1	N	551	ASN
1	N	552	ARG
1	N	561	LEU
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	706	LEU
1	N	742	LEU
1	N	755	THR
1	N	769	GLU
1	N	770	LEU
1	N	778	GLU
1	N	790	VAL
1	N	806	THR
1	N	807	ILE
1	O	1	MET
1	O	3	THR
1	O	13	TYR
1	O	17	HIS
1	O	18	VAL
1	O	30	VAL
1	O	36	ILE
1	O	38	GLN
1	O	53	VAL
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

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Mol	Chain	Res	Type
1	O	95	ASP
1	O	104	VAL
1	O	110	THR
1	O	114	VAL
1	O	115	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	160	VAL
1	O	161	GLU
1	O	162	ILE
1	O	163	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
1	O	199	ARG
1	O	201	VAL
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	238	LEU
1	O	242	LEU
1	O	253	VAL
1	O	257	GLU
1	O	259	HIS
1	O	266	GLU
1	O	267	VAL

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Mol	Chain	Res	Type
1	O	268	LEU
1	O	271	VAL
1	O	276	LEU
1	O	284	ILE
1	O	286	ASP
1	O	295	GLN
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	314	GLU
1	O	320	ILE
1	O	321	GLN
1	O	322	ASP
1	O	328	GLU
1	O	332	LEU
1	O	334	LEU
1	O	335	LYS
1	O	341	GLU
1	O	342	GLU
1	O	358	LEU
1	O	363	LEU
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	418	GLU
1	O	421	SER
1	O	424	GLU
1	O	425	GLU
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

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Mol	Chain	Res	Type
1	O	516	LEU
1	O	517	LEU
1	O	518	LEU
1	O	527	ILE
1	O	539	LEU
1	O	549	LEU
1	O	550	LYS
1	O	561	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	683	GLU
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	765	VAL
1	O	770	LEU
1	O	778	GLU
1	O	779	LEU
1	O	780	GLU
1	O	787	LEU
1	O	790	VAL
1	O	793	LYS
1	O	806	THR
1	O	807	ILE
1	P	1	MET
1	P	3	THR
1	P	17	HIS
1	P	18	VAL
1	P	30	VAL
1	P	36	ILE
1	P	38	GLN

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Mol	Chain	Res	Type
1	P	41	GLU
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	83	LEU
1	P	90	ILE
1	P	95	ASP
1	P	104	VAL
1	P	105	LEU
1	P	106	GLU
1	P	113	GLN
1	P	114	VAL
1	P	115	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	138	MET
1	P	142	GLU
1	P	144	LEU
1	P	152	ILE
1	P	155	LYS
1	P	156	GLU
1	P	160	VAL
1	P	161	GLU
1	P	167	VAL
1	P	169	LYS
1	P	175	ARG
1	P	177	ARG
1	P	192	THR
1	P	196	TRP
1	P	197	LEU
1	P	199	ARG
1	P	200	SER
1	P	205	LEU

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Mol	Chain	Res	Type
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	241	VAL
1	P	242	LEU
1	P	250	LEU
1	P	253	VAL
1	P	254	GLN
1	P	257	GLU
1	P	259	HIS
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	320	ILE
1	P	322	ASP
1	P	328	GLU
1	P	334	LEU
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	384	GLN

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Mol	Chain	Res	Type
1	P	385	ASN
1	P	388	ILE
1	P	393	VAL
1	P	395	THR
1	P	405	THR
1	P	407	MET
1	P	409	THR
1	P	417	LYS
1	P	418	GLU
1	P	425	GLU
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	527	ILE
1	P	533	ASP
1	P	536	ARG
1	P	539	LEU
1	P	549	LEU
1	P	564	VAL
1	P	575	ILE
1	P	580	ARG
1	P	585	SER
1	P	587	THR
1	P	601	MET
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	692	LYS
1	P	706	LEU
1	P	742	LEU
1	P	755	THR

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Mol	Chain	Res	Type
1	P	765	VAL
1	P	770	LEU
1	P	771	ILE
1	P	778	GLU
1	P	787	LEU
1	P	790	VAL
1	P	798	MET
1	P	806	THR
1	Q	1	MET
1	Q	3	THR
1	Q	13	TYR
1	Q	18	VAL
1	Q	33	LYS
1	Q	36	ILE
1	Q	38	GLN
1	Q	60	ILE
1	Q	61	VAL
1	Q	65	VAL
1	Q	66	SER
1	Q	70	GLN
1	Q	74	LEU
1	Q	75	PHE
1	Q	82	ARG
1	Q	83	LEU
1	Q	90	ILE
1	Q	107	LYS
1	Q	108	ASP
1	Q	110	THR
1	Q	114	VAL
1	Q	118	ASN
1	Q	119	THR
1	Q	124	LYS
1	Q	127	LEU
1	Q	131	ASP
1	Q	135	ASP
1	Q	137	VAL
1	Q	138	MET
1	Q	141	ASP
1	Q	144	LEU
1	Q	151	TYR
1	Q	152	ILE
1	Q	155	LYS

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Mol	Chain	Res	Type
1	Q	156	GLU
1	Q	158	GLU
1	Q	160	VAL
1	Q	161	GLU
1	Q	163	ILE
1	Q	167	VAL
1	Q	168	ILE
1	Q	174	LEU
1	Q	175	ARG
1	Q	177	ARG
1	Q	191	VAL
1	Q	192	THR
1	Q	196	TRP
1	Q	197	LEU
1	Q	199	ARG
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	245	THR
1	Q	250	LEU
1	Q	253	VAL
1	Q	257	GLU
1	Q	259	HIS
1	Q	263	VAL
1	Q	266	GLU
1	Q	268	LEU
1	Q	271	VAL
1	Q	276	LEU
1	Q	284	ILE
1	Q	286	ASP
1	Q	293	LYS
1	Q	295	GLN
1	Q	296	LEU
1	Q	299	LYS

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Mol	Chain	Res	Type
1	Q	301	VAL
1	Q	308	PHE
1	Q	310	LEU
1	Q	314	GLU
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	358	LEU
1	Q	359	ILE
1	Q	363	LEU
1	Q	366	VAL
1	Q	373	VAL
1	Q	380	ILE
1	Q	384	GLN
1	Q	385	ASN
1	Q	388	ILE
1	Q	393	VAL
1	Q	395	THR
1	Q	401	VAL
1	Q	407	MET
1	Q	417	LYS
1	Q	418	GLU
1	Q	421	SER
1	Q	425	GLU
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	504	ARG
1	Q	516	LEU
1	Q	517	LEU
1	Q	518	LEU
1	Q	527	ILE
1	Q	533	ASP
1	Q	549	LEU

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Mol	Chain	Res	Type
1	Q	560	LYS
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	706	LEU
1	Q	721	ASN
1	Q	742	LEU
1	Q	747	LYS
1	Q	755	THR
1	Q	760	GLU
1	Q	763	LYS
1	Q	770	LEU
1	Q	778	GLU
1	Q	779	LEU
1	Q	794	LYS
1	Q	806	THR
1	R	1	MET
1	R	3	THR
1	R	9	ARG
1	R	13	TYR
1	R	17	HIS
1	R	18	VAL
1	R	30	VAL
1	R	33	LYS
1	R	36	ILE
1	R	38	GLN
1	R	41	GLU
1	R	56	ARG
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	92	LEU
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	152	ILE
1	R	155	LYS
1	R	156	GLU
1	R	158	GLU
1	R	160	VAL
1	R	161	GLU
1	R	163	ILE
1	R	164	GLN
1	R	167	VAL
1	R	175	ARG
1	R	191	VAL
1	R	192	THR
1	R	196	TRP
1	R	197	LEU
1	R	198	VAL
1	R	200	SER
1	R	201	VAL
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

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Mol	Chain	Res	Type
1	R	236	ARG
1	R	238	LEU
1	R	241	VAL
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	263	VAL
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	306	LYS
1	R	314	GLU
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	359	ILE
1	R	363	LEU
1	R	373	VAL
1	R	380	ILE
1	R	384	GLN
1	R	385	ASN
1	R	388	ILE
1	R	395	THR
1	R	407	MET

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Mol	Chain	Res	Type
1	R	417	LYS
1	R	425	GLU
1	R	479	ARG
1	R	486	LEU
1	R	487	VAL
1	R	490	ASP
1	R	494	GLN
1	R	496	THR
1	R	501	SER
1	R	522	PHE
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	654	LEU
1	R	666	THR
1	R	668	SER
1	R	690	ARG
1	R	706	LEU
1	R	721	ASN
1	R	741	VAL
1	R	742	LEU
1	R	747	LYS
1	R	755	THR
1	R	769	GLU
1	R	770	LEU
1	R	771	ILE
1	R	778	GLU
1	R	779	LEU
1	R	780	GLU
1	R	787	LEU
1	R	790	VAL
1	R	806	THR
1	S	1	MET
1	S	3	THR
1	S	13	TYR

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Mol	Chain	Res	Type
1	S	17	HIS
1	S	18	VAL
1	S	23	SER
1	S	30	VAL
1	S	33	LYS
1	S	36	ILE
1	S	38	GLN
1	S	41	GLU
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	90	ILE
1	S	95	ASP
1	S	104	VAL
1	S	107	LYS
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	138	MET
1	S	144	LEU
1	S	152	ILE
1	S	155	LYS
1	S	156	GLU
1	S	160	VAL
1	S	161	GLU
1	S	163	ILE
1	S	164	GLN
1	S	167	VAL

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Mol	Chain	Res	Type
1	S	174	LEU
1	S	175	ARG
1	S	177	ARG
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	219	VAL
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	270	VAL
1	S	271	VAL
1	S	276	LEU
1	S	284	ILE
1	S	286	ASP
1	S	296	LEU
1	S	306	LYS
1	S	308	PHE
1	S	321	GLN
1	S	322	ASP
1	S	332	LEU
1	S	334	LEU
1	S	335	LYS
1	S	341	GLU
1	S	358	LEU
1	S	363	LEU
1	S	366	VAL
1	S	373	VAL

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Mol	Chain	Res	Type
1	S	380	ILE
1	S	384	GLN
1	S	385	ASN
1	S	388	ILE
1	S	395	THR
1	S	402	ILE
1	S	407	MET
1	S	417	LYS
1	S	425	GLU
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	536	ARG
1	S	549	LEU
1	S	560	LYS
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	692	LYS
1	S	698	GLU
1	S	706	LEU
1	S	742	LEU
1	S	747	LYS
1	S	755	THR
1	S	763	LYS
1	S	770	LEU
1	S	771	ILE
1	S	778	GLU

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Mol	Chain	Res	Type
1	S	779	LEU
1	S	806	THR
1	T	1	MET
1	T	3	THR
1	T	17	HIS
1	T	18	VAL
1	T	23	SER
1	T	36	ILE
1	T	38	GLN
1	T	41	GLU
1	T	50	MET
1	T	60	ILE
1	T	61	VAL
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	108	ASP
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	151	TYR
1	T	152	ILE
1	T	160	VAL
1	T	161	GLU
1	T	163	ILE
1	T	166	THR
1	T	169	LYS
1	T	175	ARG
1	T	177	ARG

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Mol	Chain	Res	Type
1	T	191	VAL
1	T	196	TRP
1	T	197	LEU
1	T	199	ARG
1	T	205	LEU
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	241	VAL
1	T	242	LEU
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	273	ILE
1	T	276	LEU
1	T	284	ILE
1	T	286	ASP
1	T	296	LEU
1	T	302	VAL
1	T	306	LYS
1	T	307	SER
1	T	308	PHE
1	T	310	LEU
1	T	320	ILE
1	T	321	GLN
1	T	322	ASP
1	T	328	GLU
1	T	334	LEU
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

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Mol	Chain	Res	Type
1	T	384	GLN
1	T	385	ASN
1	T	388	ILE
1	T	407	MET
1	T	424	GLU
1	T	425	GLU
1	T	474	ARG
1	T	479	ARG
1	T	486	LEU
1	T	487	VAL
1	T	490	ASP
1	T	496	THR
1	T	501	SER
1	T	512	ARG
1	T	516	LEU
1	T	517	LEU
1	T	518	LEU
1	T	524	THR
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	692	LYS
1	T	693	ILE
1	T	706	LEU
1	T	713	SER
1	T	742	LEU
1	T	755	THR
1	T	763	LYS
1	T	769	GLU
1	T	770	LEU
1	T	778	GLU
1	T	779	LEU
1	T	793	LYS

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Mol	Chain	Res	Type
1	T	806	THR
1	U	1	MET
1	U	3	THR
1	U	18	VAL
1	U	33	LYS
1	U	36	ILE
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	90	ILE
1	U	95	ASP
1	U	106	GLU
1	U	107	LYS
1	U	110	THR
1	U	115	VAL
1	U	119	THR
1	U	127	LEU
1	U	132	LYS
1	U	133	ASN
1	U	135	ASP
1	U	137	VAL
1	U	144	LEU
1	U	152	ILE
1	U	155	LYS
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	191	VAL
1	U	192	THR
1	U	196	TRP
1	U	197	LEU
1	U	205	LEU

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Mol	Chain	Res	Type
1	U	213	LEU
1	U	215	LEU
1	U	219	VAL
1	U	221	LEU
1	U	222	THR
1	U	225	THR
1	U	227	LEU
1	U	230	ARG
1	U	236	ARG
1	U	238	LEU
1	U	242	LEU
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	274	THR
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	306	LYS
1	U	308	PHE
1	U	320	ILE
1	U	321	GLN
1	U	322	ASP
1	U	328	GLU
1	U	330	GLN
1	U	334	LEU
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	359	ILE
1	U	363	LEU

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Mol	Chain	Res	Type
1	U	373	VAL
1	U	380	ILE
1	U	384	GLN
1	U	385	ASN
1	U	388	ILE
1	U	395	THR
1	U	407	MET
1	U	408	LEU
1	U	417	LYS
1	U	421	SER
1	U	425	GLU
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	536	ARG
1	U	549	LEU
1	U	561	LEU
1	U	580	ARG
1	U	587	THR
1	U	601	MET
1	U	607	GLU
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	742	LEU
1	U	747	LYS
1	U	755	THR
1	U	761	ARG
1	U	769	GLU

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Mol	Chain	Res	Type
1	U	770	LEU
1	U	778	GLU
1	U	779	LEU
1	U	806	THR
1	V	1	MET
1	V	3	THR
1	V	8	ILE
1	V	13	TYR
1	V	17	HIS
1	V	18	VAL
1	V	33	LYS
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	83	LEU
1	V	90	ILE
1	V	104	VAL
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	137	VAL
1	V	138	MET
1	V	144	LEU
1	V	145	PHE
1	V	151	TYR
1	V	152	ILE
1	V	155	LYS
1	V	160	VAL
1	V	161	GLU

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Mol	Chain	Res	Type
1	V	163	ILE
1	V	167	VAL
1	V	175	ARG
1	V	177	ARG
1	V	188	LYS
1	V	191	VAL
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	286	ASP
1	V	296	LEU
1	V	301	VAL
1	V	302	VAL
1	V	306	LYS
1	V	308	PHE
1	V	320	ILE
1	V	321	GLN
1	V	322	ASP
1	V	330	GLN
1	V	335	LYS

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Mol	Chain	Res	Type
1	V	341	GLU
1	V	342	GLU
1	V	345	SER
1	V	358	LEU
1	V	363	LEU
1	V	373	VAL
1	V	380	ILE
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	425	GLU
1	V	486	LEU
1	V	487	VAL
1	V	490	ASP
1	V	496	THR
1	V	504	ARG
1	V	507	ARG
1	V	512	ARG
1	V	516	LEU
1	V	517	LEU
1	V	518	LEU
1	V	523	PHE
1	V	527	ILE
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	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	794	LYS
1	V	802	LEU
1	V	807	ILE
1	W	1	MET
1	W	3	THR
1	W	13	TYR
1	W	18	VAL
1	W	23	SER
1	W	33	LYS
1	W	36	ILE
1	W	38	GLN
1	W	41	GLU
1	W	50	MET
1	W	52	THR
1	W	60	ILE
1	W	61	VAL
1	W	70	GLN
1	W	74	LEU
1	W	83	LEU
1	W	84	ARG
1	W	90	ILE
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	137	VAL
1	W	138	MET
1	W	144	LEU
1	W	152	ILE
1	W	155	LYS
1	W	160	VAL
1	W	161	GLU
1	W	167	VAL
1	W	174	LEU
1	W	175	ARG
1	W	177	ARG

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Mol	Chain	Res	Type
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	270	VAL
1	W	271	VAL
1	W	276	LEU
1	W	284	ILE
1	W	286	ASP
1	W	295	GLN
1	W	296	LEU
1	W	308	PHE
1	W	320	ILE
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	384	GLN
1	W	385	ASN
1	W	388	ILE
1	W	395	THR
1	W	407	MET
1	W	408	LEU
1	W	417	LYS

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Mol	Chain	Res	Type
1	W	418	GLU
1	W	425	GLU
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	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	598	ILE
1	W	601	MET
1	W	621	LYS
1	W	627	VAL
1	W	640	VAL
1	W	648	GLN
1	W	651	ARG
1	W	666	THR
1	W	683	GLU
1	W	685	ARG
1	W	690	ARG
1	W	698	GLU
1	W	706	LEU
1	W	742	LEU
1	W	755	THR
1	W	756	GLU
1	W	765	VAL
1	W	766	ARG
1	W	769	GLU
1	W	770	LEU
1	W	779	LEU
1	W	787	LEU
1	W	794	LYS

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Mol	Chain	Res	Type
1	W	798	MET
1	W	802	LEU
1	W	810	LEU
1	X	1	MET
1	X	3	THR
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	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	90	ILE
1	X	110	THR
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	136	LYS
1	X	137	VAL
1	X	138	MET
1	X	152	ILE
1	X	155	LYS
1	X	160	VAL
1	X	161	GLU
1	X	166	THR
1	X	167	VAL

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Mol	Chain	Res	Type
1	X	169	LYS
1	X	174	LEU
1	X	175	ARG
1	X	177	ARG
1	X	192	THR
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	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	295	GLN
1	X	296	LEU
1	X	302	VAL
1	X	308	PHE
1	X	320	ILE
1	X	321	GLN
1	X	322	ASP
1	X	332	LEU
1	X	335	LYS
1	X	341	GLU
1	X	342	GLU
1	X	358	LEU
1	X	359	ILE

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Mol	Chain	Res	Type
1	X	363	LEU
1	X	366	VAL
1	X	373	VAL
1	X	380	ILE
1	X	384	GLN
1	X	385	ASN
1	X	388	ILE
1	X	407	MET
1	X	417	LYS
1	X	425	GLU
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	536	ARG
1	X	549	LEU
1	X	580	ARG
1	X	587	THR
1	X	595	SER
1	X	621	LYS
1	X	627	VAL
1	X	648	GLN
1	X	649	ARG
1	X	654	LEU
1	X	666	THR
1	X	668	SER
1	X	693	ILE
1	X	698	GLU
1	X	706	LEU
1	X	742	LEU
1	X	747	LYS
1	X	755	THR
1	X	756	GLU
1	X	763	LYS

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Mol	Chain	Res	Type
1	X	766	ARG
1	X	769	GLU
1	X	770	LEU
1	X	779	LEU
1	X	802	LEU
1	X	807	ILE
1	X	810	LEU
1	Y	1	MET
1	Y	3	THR
1	Y	18	VAL
1	Y	23	SER
1	Y	30	VAL
1	Y	35	TYR
1	Y	36	ILE
1	Y	38	GLN
1	Y	41	GLU
1	Y	60	ILE
1	Y	61	VAL
1	Y	70	GLN
1	Y	73	VAL
1	Y	74	LEU
1	Y	78	THR
1	Y	83	LEU
1	Y	114	VAL
1	Y	115	VAL
1	Y	118	ASN
1	Y	119	THR
1	Y	127	LEU
1	Y	133	ASN
1	Y	135	ASP
1	Y	137	VAL
1	Y	138	MET
1	Y	144	LEU
1	Y	152	ILE
1	Y	155	LYS
1	Y	160	VAL
1	Y	161	GLU
1	Y	163	ILE
1	Y	167	VAL
1	Y	168	ILE
1	Y	174	LEU
1	Y	175	ARG

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Mol	Chain	Res	Type
1	Y	177	ARG
1	Y	188	LYS
1	Y	191	VAL
1	Y	192	THR
1	Y	197	LEU
1	Y	199	ARG
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	227	LEU
1	Y	230	ARG
1	Y	238	LEU
1	Y	242	LEU
1	Y	253	VAL
1	Y	254	GLN
1	Y	257	GLU
1	Y	259	HIS
1	Y	266	GLU
1	Y	268	LEU
1	Y	270	VAL
1	Y	271	VAL
1	Y	276	LEU
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	306	LYS
1	Y	308	PHE
1	Y	320	ILE
1	Y	322	ASP
1	Y	332	LEU
1	Y	335	LYS
1	Y	341	GLU
1	Y	358	LEU

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Mol	Chain	Res	Type
1	Y	359	ILE
1	Y	363	LEU
1	Y	373	VAL
1	Y	384	GLN
1	Y	385	ASN
1	Y	407	MET
1	Y	414	LEU
1	Y	417	LYS
1	Y	418	GLU
1	Y	424	GLU
1	Y	425	GLU
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	518	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	651	ARG
1	Y	654	LEU
1	Y	666	THR
1	Y	668	SER
1	Y	691	GLN
1	Y	692	LYS
1	Y	706	LEU
1	Y	742	LEU
1	Y	755	THR

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Mol	Chain	Res	Type
1	Y	756	GLU
1	Y	763	LYS
1	Y	766	ARG
1	Y	778	GLU
1	Y	779	LEU
1	Y	793	LYS
1	Z	1	MET
1	Z	3	THR
1	Z	9	ARG
1	Z	13	TYR
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
1	Z	50	MET
1	Z	60	ILE
1	Z	61	VAL
1	Z	63	ASN
1	Z	70	GLN
1	Z	74	LEU
1	Z	75	PHE
1	Z	78	THR
1	Z	82	ARG
1	Z	83	LEU
1	Z	88	GLN
1	Z	90	ILE
1	Z	110	THR
1	Z	114	VAL
1	Z	118	ASN
1	Z	119	THR
1	Z	127	LEU
1	Z	131	ASP
1	Z	132	LYS
1	Z	133	ASN
1	Z	137	VAL
1	Z	144	LEU
1	Z	145	PHE
1	Z	151	TYR
1	Z	152	ILE

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Mol	Chain	Res	Type
1	Z	155	LYS
1	Z	160	VAL
1	Z	161	GLU
1	Z	163	ILE
1	Z	167	VAL
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
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	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	274	THR
1	Z	276	LEU
1	Z	284	ILE
1	Z	286	ASP
1	Z	293	LYS
1	Z	295	GLN
1	Z	296	LEU
1	Z	301	VAL

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Mol	Chain	Res	Type
1	Z	306	LYS
1	Z	308	PHE
1	Z	320	ILE
1	Z	321	GLN
1	Z	322	ASP
1	Z	323	VAL
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
1	Z	425	GLU
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	536	ARG
1	Z	544	ASN
1	Z	549	LEU
1	Z	580	ARG
1	Z	587	THR
1	Z	595	SER
1	Z	598	ILE
1	Z	621	LYS

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Mol	Chain	Res	Type
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	742	LEU
1	Z	747	LYS
1	Z	755	THR
1	Z	766	ARG
1	Z	770	LEU
1	Z	779	LEU
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
1	a	38	GLN
1	a	41	GLU
1	a	50	MET
1	a	52	THR
1	a	60	ILE
1	a	61	VAL
1	a	63	ASN
1	a	65	VAL
1	a	70	GLN
1	a	74	LEU
1	a	83	LEU
1	a	90	ILE
1	a	107	LYS
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

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Mol	Chain	Res	Type
1	a	137	VAL
1	a	138	MET
1	a	144	LEU
1	a	152	ILE
1	a	155	LYS
1	a	156	GLU
1	a	160	VAL
1	a	161	GLU
1	a	163	ILE
1	a	164	GLN
1	a	167	VAL
1	a	175	ARG
1	a	177	ARG
1	a	191	VAL
1	a	192	THR
1	a	196	TRP
1	a	197	LEU
1	a	199	ARG
1	a	205	LEU
1	a	213	LEU
1	a	219	VAL
1	a	221	LEU
1	a	222	THR
1	a	227	LEU
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	295	GLN
1	a	296	LEU
1	a	299	LYS

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Mol	Chain	Res	Type
1	a	301	VAL
1	a	306	LYS
1	a	308	PHE
1	a	314	GLU
1	a	320	ILE
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	345	SER
1	a	358	LEU
1	a	363	LEU
1	a	373	VAL
1	a	380	ILE
1	a	384	GLN
1	a	385	ASN
1	a	388	ILE
1	a	395	THR
1	a	407	MET
1	a	416	GLU
1	a	417	LYS
1	a	418	GLU
1	a	424	GLU
1	a	425	GLU
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	518	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

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Mol	Chain	Res	Type
1	a	587	THR
1	a	595	SER
1	a	601	MET
1	a	621	LYS
1	a	648	GLN
1	a	651	ARG
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	807	ILE
1	a	810	LEU
1	b	1	MET
1	b	3	THR
1	b	17	HIS
1	b	18	VAL
1	b	23	SER
1	b	33	LYS
1	b	36	ILE
1	b	38	GLN
1	b	41	GLU
1	b	50	MET
1	b	52	THR
1	b	60	ILE
1	b	61	VAL
1	b	65	VAL
1	b	70	GLN
1	b	73	VAL
1	b	74	LEU
1	b	75	PHE
1	b	82	ARG
1	b	83	LEU
1	b	90	ILE

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Mol	Chain	Res	Type
1	b	106	GLU
1	b	114	VAL
1	b	115	VAL
1	b	119	THR
1	b	127	LEU
1	b	131	ASP
1	b	133	ASN
1	b	135	ASP
1	b	138	MET
1	b	144	LEU
1	b	145	PHE
1	b	152	ILE
1	b	160	VAL
1	b	161	GLU
1	b	162	ILE
1	b	163	ILE
1	b	164	GLN
1	b	167	VAL
1	b	169	LYS
1	b	174	LEU
1	b	175	ARG
1	b	177	ARG
1	b	191	VAL
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	219	VAL
1	b	221	LEU
1	b	222	THR
1	b	227	LEU
1	b	230	ARG
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

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Mol	Chain	Res	Type
1	b	259	HIS
1	b	263	VAL
1	b	266	GLU
1	b	267	VAL
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	330	GLN
1	b	334	LEU
1	b	335	LYS
1	b	341	GLU
1	b	342	GLU
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	425	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
1	b	490	ASP
1	b	491	PRO
1	b	496	THR
1	b	497	VAL
1	b	501	SER
1	b	512	ARG
1	b	516	LEU

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Mol	Chain	Res	Type
1	b	517	LEU
1	b	518	LEU
1	b	523	PHE
1	b	524	THR
1	b	528	THR
1	b	536	ARG
1	b	549	LEU
1	b	552	ARG
1	b	561	LEU
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	640	VAL
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	688	LEU
1	b	692	LYS
1	b	706	LEU
1	b	741	VAL
1	b	742	LEU
1	b	747	LYS
1	b	755	THR
1	b	759	LEU
1	b	763	LYS
1	b	770	LEU
1	b	778	GLU
1	b	779	LEU
1	b	790	VAL
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	36	ILE
1	c	38	GLN
1	c	41	GLU
1	c	50	MET
1	c	53	VAL
1	c	60	ILE
1	c	61	VAL
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	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	136	LYS
1	c	137	VAL
1	c	144	LEU
1	c	155	LYS
1	c	160	VAL
1	c	161	GLU
1	c	162	ILE
1	c	163	ILE
1	c	164	GLN
1	c	167	VAL
1	c	175	ARG
1	c	177	ARG
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	249	TRP
1	c	253	VAL
1	c	254	GLN
1	c	257	GLU
1	c	266	GLU
1	c	267	VAL
1	c	268	LEU
1	c	271	VAL
1	c	274	THR
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	320	ILE
1	c	321	GLN
1	c	322	ASP
1	c	334	LEU
1	c	335	LYS
1	c	341	GLU
1	c	342	GLU
1	c	358	LEU
1	c	359	ILE
1	c	363	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

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Mol	Chain	Res	Type
1	c	417	LYS
1	c	418	GLU
1	c	425	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	497	VAL
1	c	516	LEU
1	c	517	LEU
1	c	518	LEU
1	c	524	THR
1	c	528	THR
1	c	536	ARG
1	c	549	LEU
1	c	550	LYS
1	c	557	GLU
1	c	580	ARG
1	c	587	THR
1	c	595	SER
1	c	621	LYS
1	c	625	GLN
1	c	642	SER
1	c	648	GLN
1	c	654	LEU
1	c	662	ILE
1	c	666	THR
1	c	668	SER
1	c	683	GLU
1	c	692	LYS
1	c	706	LEU
1	c	721	ASN
1	c	729	ARG
1	c	742	LEU
1	c	747	LYS
1	c	755	THR
1	c	770	LEU
1	c	778	GLU
1	c	779	LEU
1	c	787	LEU

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Mol	Chain	Res	Type
1	c	793	LYS
1	c	806	THR
1	c	808	ARG
1	d	1	MET
1	d	3	THR
1	d	10	ILE
1	d	18	VAL
1	d	30	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	60	ILE
1	d	61	VAL
1	d	65	VAL
1	d	70	GLN
1	d	74	LEU
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	133	ASN
1	d	137	VAL
1	d	138	MET
1	d	144	LEU
1	d	151	TYR
1	d	152	ILE
1	d	155	LYS
1	d	156	GLU
1	d	158	GLU
1	d	160	VAL
1	d	161	GLU
1	d	163	ILE

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Mol	Chain	Res	Type
1	d	164	GLN
1	d	167	VAL
1	d	175	ARG
1	d	177	ARG
1	d	179	ARG
1	d	192	THR
1	d	197	LEU
1	d	199	ARG
1	d	201	VAL
1	d	205	LEU
1	d	213	LEU
1	d	219	VAL
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	262	ASP
1	d	263	VAL
1	d	266	GLU
1	d	267	VAL
1	d	268	LEU
1	d	271	VAL
1	d	276	LEU
1	d	284	ILE
1	d	286	ASP
1	d	295	GLN
1	d	296	LEU
1	d	301	VAL
1	d	308	PHE
1	d	320	ILE
1	d	322	ASP
1	d	325	VAL
1	d	334	LEU
1	d	335	LYS

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Mol	Chain	Res	Type
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	383	ASP
1	d	384	GLN
1	d	385	ASN
1	d	407	MET
1	d	417	LYS
1	d	418	GLU
1	d	425	GLU
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	516	LEU
1	d	517	LEU
1	d	518	LEU
1	d	529	ILE
1	d	536	ARG
1	d	549	LEU
1	d	580	ARG
1	d	587	THR
1	d	595	SER
1	d	601	MET
1	d	621	LYS
1	d	648	GLN
1	d	649	ARG
1	d	660	LEU
1	d	666	THR
1	d	668	SER
1	d	683	GLU
1	d	692	LYS
1	d	693	ILE
1	d	706	LEU
1	d	742	LEU
1	d	755	THR

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Mol	Chain	Res	Type
1	d	770	LEU
1	d	778	GLU
1	d	779	LEU
1	d	806	THR
1	e	1	MET
1	e	3	THR
1	e	18	VAL
1	e	30	VAL
1	e	33	LYS
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	108	ASP
1	e	110	THR
1	e	114	VAL
1	e	115	VAL
1	e	118	ASN
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	137	VAL
1	e	138	MET
1	e	144	LEU
1	e	151	TYR
1	e	155	LYS
1	e	156	GLU

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Mol	Chain	Res	Type
1	e	160	VAL
1	e	161	GLU
1	e	163	ILE
1	e	167	VAL
1	e	169	LYS
1	e	175	ARG
1	e	177	ARG
1	e	191	VAL
1	e	192	THR
1	e	197	LEU
1	e	199	ARG
1	e	201	VAL
1	e	205	LEU
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	238	LEU
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	266	GLU
1	e	267	VAL
1	e	268	LEU
1	e	271	VAL
1	e	274	THR
1	e	276	LEU
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	321	GLN
1	e	322	ASP

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Mol	Chain	Res	Type
1	e	330	GLN
1	e	334	LEU
1	e	335	LYS
1	e	341	GLU
1	e	345	SER
1	e	347	GLU
1	e	358	LEU
1	e	359	ILE
1	e	363	LEU
1	e	366	VAL
1	e	373	VAL
1	e	383	ASP
1	e	384	GLN
1	e	385	ASN
1	e	407	MET
1	e	417	LYS
1	e	418	GLU
1	e	421	SER
1	e	424	GLU
1	e	425	GLU
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	496	THR
1	e	497	VAL
1	e	516	LEU
1	e	517	LEU
1	e	518	LEU
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	648	GLN
1	e	654	LEU
1	e	666	THR

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Mol	Chain	Res	Type
1	e	683	GLU
1	e	691	GLN
1	e	692	LYS
1	e	693	ILE
1	e	706	LEU
1	e	721	ASN
1	e	742	LEU
1	e	755	THR
1	e	763	LYS
1	e	770	LEU
1	e	778	GLU
1	e	779	LEU
1	e	793	LYS
1	e	806	THR
1	e	807	ILE
1	e	810	LEU
1	f	1	MET
1	f	3	THR
1	f	18	VAL
1	f	23	SER
1	f	30	VAL
1	f	33	LYS
1	f	36	ILE
1	f	38	GLN
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	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	137	VAL

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Mol	Chain	Res	Type
1	f	138	MET
1	f	144	LEU
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	167	VAL
1	f	175	ARG
1	f	177	ARG
1	f	191	VAL
1	f	192	THR
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	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	267	VAL
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	306	LYS
1	f	308	PHE
1	f	310	LEU

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Mol	Chain	Res	Type
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	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
1	f	380	ILE
1	f	383	ASP
1	f	384	GLN
1	f	385	ASN
1	f	388	ILE
1	f	393	VAL
1	f	395	THR
1	f	407	MET
1	f	417	LYS
1	f	418	GLU
1	f	425	GLU
1	f	452	ARG
1	f	479	ARG
1	f	486	LEU
1	f	487	VAL
1	f	490	ASP
1	f	496	THR
1	f	497	VAL
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	601	MET

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Mol	Chain	Res	Type
1	f	621	LYS
1	f	642	SER
1	f	648	GLN
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	799	THR
1	f	806	THR
1	g	1	MET
1	g	3	THR
1	g	7	ILE
1	g	13	TYR
1	g	18	VAL
1	g	33	LYS
1	g	36	ILE
1	g	38	GLN
1	g	52	THR
1	g	60	ILE
1	g	61	VAL
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	108	ASP
1	g	110	THR
1	g	114	VAL
1	g	115	VAL
1	g	119	THR
1	g	127	LEU

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Mol	Chain	Res	Type
1	g	131	ASP
1	g	135	ASP
1	g	137	VAL
1	g	138	MET
1	g	144	LEU
1	g	145	PHE
1	g	152	ILE
1	g	155	LYS
1	g	156	GLU
1	g	160	VAL
1	g	161	GLU
1	g	166	THR
1	g	167	VAL
1	g	174	LEU
1	g	177	ARG
1	g	191	VAL
1	g	192	THR
1	g	197	LEU
1	g	199	ARG
1	g	204	TYR
1	g	205	LEU
1	g	213	LEU
1	g	215	LEU
1	g	221	LEU
1	g	222	THR
1	g	225	THR
1	g	227	LEU
1	g	230	ARG
1	g	236	ARG
1	g	238	LEU
1	g	242	LEU
1	g	245	THR
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	267	VAL
1	g	268	LEU
1	g	271	VAL
1	g	275	THR

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Mol	Chain	Res	Type
1	g	276	LEU
1	g	284	ILE
1	g	286	ASP
1	g	293	LYS
1	g	295	GLN
1	g	296	LEU
1	g	299	LYS
1	g	301	VAL
1	g	306	LYS
1	g	307	SER
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
1	g	360	ARG
1	g	363	LEU
1	g	373	VAL
1	g	380	ILE
1	g	385	ASN
1	g	388	ILE
1	g	395	THR
1	g	407	MET
1	g	417	LYS
1	g	418	GLU
1	g	425	GLU
1	g	479	ARG
1	g	486	LEU
1	g	487	VAL
1	g	490	ASP
1	g	496	THR
1	g	504	ARG
1	g	516	LEU
1	g	517	LEU
1	g	518	LEU
1	g	522	PHE

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Mol	Chain	Res	Type
1	g	539	LEU
1	g	549	LEU
1	g	580	ARG
1	g	587	THR
1	g	595	SER
1	g	601	MET
1	g	621	LYS
1	g	625	GLN
1	g	648	GLN
1	g	649	ARG
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	692	LYS
1	g	693	ILE
1	g	698	GLU
1	g	706	LEU
1	g	707	LEU
1	g	742	LEU
1	g	759	LEU
1	g	760	GLU
1	g	770	LEU
1	g	779	LEU
1	g	790	VAL
1	g	793	LYS
1	g	799	THR
1	g	806	THR
1	h	1	MET
1	h	3	THR
1	h	18	VAL
1	h	23	SER
1	h	30	VAL
1	h	33	LYS
1	h	36	ILE
1	h	38	GLN
1	h	42	ARG
1	h	52	THR
1	h	53	VAL
1	h	60	ILE

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Mol	Chain	Res	Type
1	h	61	VAL
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	110	THR
1	h	114	VAL
1	h	115	VAL
1	h	119	THR
1	h	127	LEU
1	h	131	ASP
1	h	133	ASN
1	h	135	ASP
1	h	138	MET
1	h	144	LEU
1	h	151	TYR
1	h	152	ILE
1	h	155	LYS
1	h	158	GLU
1	h	160	VAL
1	h	161	GLU
1	h	162	ILE
1	h	163	ILE
1	h	166	THR
1	h	167	VAL
1	h	175	ARG
1	h	177	ARG
1	h	191	VAL
1	h	192	THR
1	h	197	LEU
1	h	199	ARG
1	h	205	LEU
1	h	213	LEU
1	h	215	LEU
1	h	221	LEU
1	h	222	THR
1	h	225	THR
1	h	227	LEU
1	h	230	ARG

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Mol	Chain	Res	Type
1	h	232	LEU
1	h	234	ASN
1	h	236	ARG
1	h	238	LEU
1	h	242	LEU
1	h	253	VAL
1	h	257	GLU
1	h	266	GLU
1	h	268	LEU
1	h	276	LEU
1	h	284	ILE
1	h	286	ASP
1	h	295	GLN
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	321	GLN
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
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	393	VAL
1	h	407	MET
1	h	416	GLU
1	h	417	LYS
1	h	418	GLU
1	h	425	GLU

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Mol	Chain	Res	Type
1	h	459	SER
1	h	479	ARG
1	h	486	LEU
1	h	487	VAL
1	h	490	ASP
1	h	496	THR
1	h	497	VAL
1	h	504	ARG
1	h	516	LEU
1	h	517	LEU
1	h	518	LEU
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	601	MET
1	h	621	LYS
1	h	625	GLN
1	h	640	VAL
1	h	648	GLN
1	h	654	LEU
1	h	662	ILE
1	h	666	THR
1	h	683	GLU
1	h	688	LEU
1	h	690	ARG
1	h	692	LYS
1	h	706	LEU
1	h	742	LEU
1	h	747	LYS
1	h	755	THR
1	h	759	LEU
1	h	760	GLU
1	h	769	GLU
1	h	770	LEU
1	h	779	LEU
1	h	806	THR
1	h	807	ILE
1	i	1	MET

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Mol	Chain	Res	Type
1	i	3	THR
1	i	10	ILE
1	i	17	HIS
1	i	18	VAL
1	i	30	VAL
1	i	36	ILE
1	i	38	GLN
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	108	ASP
1	i	110	THR
1	i	114	VAL
1	i	118	ASN
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	151	TYR
1	i	152	ILE
1	i	155	LYS
1	i	156	GLU
1	i	160	VAL
1	i	161	GLU
1	i	163	ILE
1	i	167	VAL
1	i	174	LEU
1	i	175	ARG
1	i	177	ARG
1	i	191	VAL
1	i	192	THR
1	i	196	TRP

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Mol	Chain	Res	Type
1	i	197	LEU
1	i	201	VAL
1	i	205	LEU
1	i	213	LEU
1	i	215	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	253	VAL
1	i	257	GLU
1	i	259	HIS
1	i	263	VAL
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	295	GLN
1	i	296	LEU
1	i	301	VAL
1	i	306	LYS
1	i	310	LEU
1	i	318	ARG
1	i	320	ILE
1	i	321	GLN
1	i	322	ASP
1	i	330	GLN
1	i	332	LEU
1	i	335	LYS
1	i	340	LEU
1	i	341	GLU
1	i	342	GLU
1	i	347	GLU

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Mol	Chain	Res	Type
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	418	GLU
1	i	425	GLU
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	536	ARG
1	i	539	LEU
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	692	LYS
1	i	698	GLU
1	i	706	LEU
1	i	721	ASN
1	i	755	THR
1	i	761	ARG
1	i	765	VAL
1	i	766	ARG

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Mol	Chain	Res	Type
1	i	770	LEU
1	i	779	LEU
1	i	790	VAL
1	j	1	MET
1	j	3	THR
1	j	7	ILE
1	j	8	ILE
1	j	18	VAL
1	j	30	VAL
1	j	33	LYS
1	j	35	TYR
1	j	36	ILE
1	j	38	GLN
1	j	52	THR
1	j	53	VAL
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	108	ASP
1	j	114	VAL
1	j	115	VAL
1	j	119	THR
1	j	127	LEU
1	j	131	ASP
1	j	133	ASN
1	j	137	VAL
1	j	138	MET
1	j	144	LEU
1	j	152	ILE
1	j	155	LYS
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

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Mol	Chain	Res	Type
1	j	179	ARG
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	238	LEU
1	j	242	LEU
1	j	253	VAL
1	j	257	GLU
1	j	259	HIS
1	j	263	VAL
1	j	266	GLU
1	j	267	VAL
1	j	268	LEU
1	j	271	VAL
1	j	276	LEU
1	j	284	ILE
1	j	286	ASP
1	j	295	GLN
1	j	296	LEU
1	j	301	VAL
1	j	302	VAL
1	j	306	LYS
1	j	307	SER
1	j	308	PHE
1	j	310	LEU
1	j	320	ILE
1	j	322	ASP
1	j	335	LYS
1	j	341	GLU
1	j	342	GLU
1	j	347	GLU
1	j	358	LEU

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Mol	Chain	Res	Type
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	388	ILE
1	j	393	VAL
1	j	395	THR
1	j	407	MET
1	j	417	LYS
1	j	425	GLU
1	j	459	SER
1	j	468	VAL
1	j	479	ARG
1	j	486	LEU
1	j	487	VAL
1	j	496	THR
1	j	497	VAL
1	j	516	LEU
1	j	517	LEU
1	j	518	LEU
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	601	MET
1	j	621	LYS
1	j	625	GLN
1	j	648	GLN
1	j	649	ARG
1	j	654	LEU
1	j	666	THR
1	j	668	SER
1	j	685	ARG
1	j	688	LEU
1	j	689	GLU
1	j	690	ARG
1	j	692	LYS
1	j	698	GLU

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Mol	Chain	Res	Type
1	j	706	LEU
1	j	742	LEU
1	j	747	LYS
1	j	755	THR
1	j	762	VAL
1	j	763	LYS
1	j	767	GLU
1	j	768	MET
1	j	770	LEU
1	j	778	GLU
1	j	779	LEU
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	9	ARG
1	k	10	ILE
1	k	18	VAL
1	k	30	VAL
1	k	36	ILE
1	k	38	GLN
1	k	50	MET
1	k	60	ILE
1	k	61	VAL
1	k	65	VAL
1	k	70	GLN
1	k	74	LEU
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	133	ASN
1	k	135	ASP

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Mol	Chain	Res	Type
1	k	138	MET
1	k	144	LEU
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	167	VAL
1	k	174	LEU
1	k	175	ARG
1	k	177	ARG
1	k	191	VAL
1	k	192	THR
1	k	197	LEU
1	k	198	VAL
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	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

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Mol	Chain	Res	Type
1	k	301	VAL
1	k	307	SER
1	k	308	PHE
1	k	310	LEU
1	k	320	ILE
1	k	321	GLN
1	k	322	ASP
1	k	328	GLU
1	k	332	LEU
1	k	335	LYS
1	k	340	LEU
1	k	341	GLU
1	k	342	GLU
1	k	358	LEU
1	k	363	LEU
1	k	366	VAL
1	k	373	VAL
1	k	380	ILE
1	k	384	GLN
1	k	385	ASN
1	k	402	ILE
1	k	407	MET
1	k	417	LYS
1	k	423	VAL
1	k	424	GLU
1	k	425	GLU
1	k	479	ARG
1	k	486	LEU
1	k	487	VAL
1	k	490	ASP
1	k	496	THR
1	k	501	SER
1	k	516	LEU
1	k	517	LEU
1	k	518	LEU
1	k	536	ARG
1	k	544	ASN
1	k	549	LEU
1	k	560	LYS
1	k	580	ARG
1	k	587	THR
1	k	595	SER

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Mol	Chain	Res	Type
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
1	k	689	GLU
1	k	692	LYS
1	k	706	LEU
1	k	707	LEU
1	k	729	ARG
1	k	742	LEU
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	790	VAL
1	k	794	LYS
1	k	802	LEU
1	k	810	LEU
1	k	812	VAL
1	l	1	MET
1	l	3	THR
1	l	7	ILE
1	l	8	ILE
1	l	13	TYR
1	l	17	HIS
1	l	18	VAL
1	l	30	VAL
1	l	35	TYR
1	l	36	ILE
1	l	38	GLN
1	l	41	GLU
1	l	57	HIS
1	l	60	ILE
1	l	61	VAL
1	l	70	GLN
1	l	74	LEU
1	l	75	PHE

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Mol	Chain	Res	Type
1	1	83	LEU
1	1	84	ARG
1	1	104	VAL
1	1	110	THR
1	1	114	VAL
1	1	119	THR
1	1	127	LEU
1	1	131	ASP
1	1	133	ASN
1	1	135	ASP
1	1	137	VAL
1	1	138	MET
1	1	141	ASP
1	1	144	LEU
1	1	152	ILE
1	1	155	LYS
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	191	VAL
1	1	197	LEU
1	1	198	VAL
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

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Mol	Chain	Res	Type
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	299	LYS
1	1	301	VAL
1	1	306	LYS
1	1	308	PHE
1	1	314	GLU
1	1	320	ILE
1	1	322	ASP
1	1	328	GLU
1	1	334	LEU
1	1	335	LYS
1	1	341	GLU
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	384	GLN
1	1	385	ASN
1	1	388	ILE
1	1	395	THR
1	1	407	MET
1	1	416	GLU
1	1	417	LYS
1	1	418	GLU
1	1	424	GLU
1	1	425	GLU
1	1	456	ARG
1	1	468	VAL
1	1	479	ARG
1	1	486	LEU
1	1	487	VAL
1	1	496	THR
1	1	516	LEU

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Mol	Chain	Res	Type
1	l	517	LEU
1	l	518	LEU
1	l	523	PHE
1	l	536	ARG
1	l	549	LEU
1	l	560	LYS
1	l	580	ARG
1	l	587	THR
1	l	595	SER
1	l	621	LYS
1	l	633	LEU
1	l	634	VAL
1	l	648	GLN
1	l	651	ARG
1	l	654	LEU
1	l	666	THR
1	l	668	SER
1	l	683	GLU
1	l	688	LEU
1	l	698	GLU
1	l	706	LEU
1	l	742	LEU
1	l	747	LYS
1	l	755	THR
1	l	765	VAL
1	l	766	ARG
1	l	770	LEU
1	l	779	LEU
1	l	793	LYS
1	l	798	MET
1	l	806	THR
1	l	808	ARG
1	l	809	ASP
1	l	810	LEU
1	l	812	VAL
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

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Mol	Chain	Res	Type
1	m	36	ILE
1	m	38	GLN
1	m	60	ILE
1	m	61	VAL
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
1	m	163	ILE
1	m	166	THR
1	m	174	LEU
1	m	175	ARG
1	m	177	ARG
1	m	191	VAL
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	232	LEU
1	m	234	ASN
1	m	238	LEU
1	m	242	LEU
1	m	249	TRP

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Mol	Chain	Res	Type
1	m	250	LEU
1	m	253	VAL
1	m	254	GLN
1	m	257	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	321	GLN
1	m	322	ASP
1	m	328	GLU
1	m	334	LEU
1	m	335	LYS
1	m	341	GLU
1	m	347	GLU
1	m	358	LEU
1	m	359	ILE
1	m	363	LEU
1	m	380	ILE
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	418	GLU
1	m	425	GLU
1	m	456	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	497	VAL
1	m	501	SER

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Mol	Chain	Res	Type
1	m	516	LEU
1	m	517	LEU
1	m	518	LEU
1	m	523	PHE
1	m	536	ARG
1	m	549	LEU
1	m	560	LYS
1	m	580	ARG
1	m	585	SER
1	m	587	THR
1	m	621	LYS
1	m	625	GLN
1	m	640	VAL
1	m	648	GLN
1	m	651	ARG
1	m	654	LEU
1	m	666	THR
1	m	668	SER
1	m	683	GLU
1	m	692	LYS
1	m	698	GLU
1	m	706	LEU
1	m	742	LEU
1	m	747	LYS
1	m	755	THR
1	m	763	LYS
1	m	770	LEU
1	m	778	GLU
1	m	779	LEU
1	m	780	GLU
1	m	782	SER
1	m	793	LYS
1	m	806	THR
1	m	807	ILE
1	m	810	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (816) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	17	HIS
1	A	22	ASN
1	A	24	ASN

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Mol	Chain	Res	Type
1	A	40	ASN
1	A	70	GLN
1	A	80	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	351	HIS
1	A	384	GLN
1	A	428	ASN
1	A	469	GLN
1	A	534	HIS
1	A	546	HIS
1	A	625	GLN
1	A	678	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	57	HIS
1	B	70	GLN
1	B	118	ASN
1	B	164	GLN
1	B	234	ASN
1	B	254	GLN
1	B	311	GLN
1	B	329	GLN
1	B	378	GLN
1	B	384	GLN
1	B	385	ASN
1	B	428	ASN
1	B	469	GLN
1	B	494	GLN
1	B	509	HIS
1	B	534	HIS
1	B	538	GLN
1	B	625	GLN
1	B	648	GLN

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Mol	Chain	Res	Type
1	B	691	GLN
1	B	696	GLN
1	B	749	GLN
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	254	GLN
1	C	280	HIS
1	C	378	GLN
1	C	384	GLN
1	C	385	ASN
1	C	428	ASN
1	C	464	HIS
1	C	494	GLN
1	C	509	HIS
1	C	534	HIS
1	C	630	GLN
1	D	17	HIS
1	D	22	ASN
1	D	24	ASN
1	D	40	ASN
1	D	118	ASN
1	D	254	GLN
1	D	384	GLN
1	D	385	ASN
1	D	428	ASN
1	D	509	HIS
1	D	534	HIS
1	D	648	GLN
1	D	659	GLN
1	D	691	GLN
1	D	696	GLN
1	D	776	GLN
1	E	17	HIS
1	E	22	ASN
1	E	24	ASN
1	E	40	ASN
1	E	118	ASN
1	E	133	ASN

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Mol	Chain	Res	Type
1	E	254	GLN
1	E	298	GLN
1	E	329	GLN
1	E	385	ASN
1	E	464	HIS
1	E	469	GLN
1	E	509	HIS
1	E	594	ASN
1	E	630	GLN
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	57	HIS
1	F	88	GLN
1	F	118	ASN
1	F	234	ASN
1	F	254	GLN
1	F	298	GLN
1	F	311	GLN
1	F	329	GLN
1	F	385	ASN
1	F	464	HIS
1	F	509	HIS
1	F	544	ASN
1	F	630	GLN
1	F	749	GLN
1	G	17	HIS
1	G	22	ASN
1	G	40	ASN
1	G	70	GLN
1	G	118	ASN
1	G	122	HIS
1	G	234	ASN
1	G	254	GLN
1	G	294	ASN
1	G	464	HIS
1	G	469	GLN
1	G	494	GLN
1	G	509	HIS

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Mol	Chain	Res	Type
1	G	538	GLN
1	G	625	GLN
1	G	648	GLN
1	G	696	GLN
1	G	749	GLN
1	G	776	GLN
1	H	17	HIS
1	H	22	ASN
1	H	24	ASN
1	H	40	ASN
1	H	57	HIS
1	H	88	GLN
1	H	118	ASN
1	H	234	ASN
1	H	254	GLN
1	H	311	GLN
1	H	465	ASN
1	H	469	GLN
1	H	494	GLN
1	H	534	HIS
1	H	544	ASN
1	H	630	GLN
1	H	675	HIS
1	H	682	GLN
1	H	696	GLN
1	H	749	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	122	HIS
1	I	133	ASN
1	I	164	GLN
1	I	233	GLN
1	I	234	ASN
1	I	254	GLN
1	I	294	ASN
1	I	295	GLN
1	I	311	GLN

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Mol	Chain	Res	Type
1	I	352	GLN
1	I	385	ASN
1	I	469	GLN
1	I	494	GLN
1	I	534	HIS
1	I	655	GLN
1	I	696	GLN
1	I	776	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	122	HIS
1	J	234	ASN
1	J	254	GLN
1	J	280	HIS
1	J	294	ASN
1	J	298	GLN
1	J	311	GLN
1	J	352	GLN
1	J	464	HIS
1	J	469	GLN
1	J	494	GLN
1	J	509	HIS
1	J	534	HIS
1	J	544	ASN
1	J	630	GLN
1	J	641	GLN
1	J	655	GLN
1	J	696	GLN
1	J	776	GLN
1	K	22	ASN
1	K	24	ASN
1	K	40	ASN
1	K	57	HIS
1	K	88	GLN
1	K	118	ASN
1	K	170	GLN
1	K	234	ASN

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Mol	Chain	Res	Type
1	K	254	GLN
1	K	280	HIS
1	K	352	GLN
1	K	469	GLN
1	K	494	GLN
1	K	509	HIS
1	K	534	HIS
1	K	630	GLN
1	K	659	GLN
1	K	785	GLN
1	L	17	HIS
1	L	22	ASN
1	L	24	ASN
1	L	40	ASN
1	L	57	HIS
1	L	118	ASN
1	L	234	ASN
1	L	254	GLN
1	L	294	ASN
1	L	351	HIS
1	L	378	GLN
1	L	385	ASN
1	L	464	HIS
1	L	469	GLN
1	L	494	GLN
1	L	534	HIS
1	L	546	HIS
1	L	630	GLN
1	L	641	GLN
1	L	696	GLN
1	L	776	GLN
1	L	785	GLN
1	M	17	HIS
1	M	22	ASN
1	M	24	ASN
1	M	40	ASN
1	M	70	GLN
1	M	118	ASN
1	M	122	HIS
1	M	164	GLN
1	M	234	ASN
1	M	254	GLN

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Mol	Chain	Res	Type
1	M	280	HIS
1	M	294	ASN
1	M	298	GLN
1	M	338	GLN
1	M	384	GLN
1	M	385	ASN
1	M	410	GLN
1	M	464	HIS
1	M	469	GLN
1	M	494	GLN
1	M	509	HIS
1	M	534	HIS
1	M	630	GLN
1	M	659	GLN
1	M	696	GLN
1	M	749	GLN
1	N	17	HIS
1	N	22	ASN
1	N	24	ASN
1	N	40	ASN
1	N	70	GLN
1	N	118	ASN
1	N	164	GLN
1	N	234	ASN
1	N	254	GLN
1	N	330	GLN
1	N	384	GLN
1	N	385	ASN
1	N	464	HIS
1	N	494	GLN
1	N	648	GLN
1	N	659	GLN
1	N	696	GLN
1	O	17	HIS
1	O	22	ASN
1	O	24	ASN
1	O	40	ASN
1	O	63	ASN
1	O	70	GLN
1	O	118	ASN
1	O	133	ASN
1	O	164	GLN

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Mol	Chain	Res	Type
1	O	233	GLN
1	O	234	ASN
1	O	254	GLN
1	O	298	GLN
1	O	321	GLN
1	O	378	GLN
1	O	385	ASN
1	O	494	GLN
1	O	509	HIS
1	O	630	GLN
1	O	659	GLN
1	O	678	GLN
1	O	691	GLN
1	O	749	GLN
1	P	17	HIS
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	294	ASN
1	P	295	GLN
1	P	385	ASN
1	P	428	ASN
1	P	494	GLN
1	P	509	HIS
1	P	534	HIS
1	P	630	GLN
1	P	641	GLN
1	P	648	GLN
1	P	696	GLN
1	P	789	ASN
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	88	GLN
1	Q	118	ASN

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Mol	Chain	Res	Type
1	Q	122	HIS
1	Q	234	ASN
1	Q	254	GLN
1	Q	385	ASN
1	Q	464	HIS
1	Q	494	GLN
1	Q	509	HIS
1	Q	625	GLN
1	Q	630	GLN
1	Q	691	GLN
1	Q	696	GLN
1	Q	749	GLN
1	R	21	GLN
1	R	22	ASN
1	R	24	ASN
1	R	40	ASN
1	R	94	GLN
1	R	118	ASN
1	R	133	ASN
1	R	170	GLN
1	R	234	ASN
1	R	254	GLN
1	R	294	ASN
1	R	378	GLN
1	R	494	GLN
1	R	534	HIS
1	R	544	ASN
1	R	630	GLN
1	R	648	GLN
1	R	721	ASN
1	R	749	GLN
1	S	17	HIS
1	S	22	ASN
1	S	40	ASN
1	S	57	HIS
1	S	70	GLN
1	S	88	GLN
1	S	118	ASN
1	S	164	GLN
1	S	234	ASN
1	S	254	GLN
1	S	384	GLN

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Mol	Chain	Res	Type
1	S	385	ASN
1	S	453	ASN
1	S	494	GLN
1	S	509	HIS
1	S	534	HIS
1	S	630	GLN
1	S	648	GLN
1	S	655	GLN
1	S	696	GLN
1	S	749	GLN
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	122	HIS
1	T	133	ASN
1	T	254	GLN
1	T	294	ASN
1	T	321	GLN
1	T	378	GLN
1	T	384	GLN
1	T	494	GLN
1	T	509	HIS
1	T	534	HIS
1	T	659	GLN
1	T	691	GLN
1	T	696	GLN
1	T	721	ASN
1	U	17	HIS
1	U	22	ASN
1	U	24	ASN
1	U	38	GLN
1	U	40	ASN
1	U	57	HIS
1	U	70	GLN
1	U	88	GLN
1	U	118	ASN
1	U	234	ASN
1	U	254	GLN
1	U	295	GLN

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Mol	Chain	Res	Type
1	U	385	ASN
1	U	428	ASN
1	U	494	GLN
1	U	509	HIS
1	U	534	HIS
1	U	544	ASN
1	U	655	GLN
1	U	696	GLN
1	U	776	GLN
1	U	785	GLN
1	V	17	HIS
1	V	22	ASN
1	V	24	ASN
1	V	40	ASN
1	V	70	GLN
1	V	88	GLN
1	V	118	ASN
1	V	122	HIS
1	V	233	GLN
1	V	234	ASN
1	V	254	GLN
1	V	280	HIS
1	V	294	ASN
1	V	298	GLN
1	V	311	GLN
1	V	321	GLN
1	V	338	GLN
1	V	352	GLN
1	V	378	GLN
1	V	385	ASN
1	V	428	ASN
1	V	469	GLN
1	V	494	GLN
1	V	509	HIS
1	V	534	HIS
1	V	544	ASN
1	V	648	GLN
1	V	678	GLN
1	V	696	GLN
1	W	17	HIS
1	W	22	ASN
1	W	24	ASN

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Mol	Chain	Res	Type
1	W	40	ASN
1	W	70	GLN
1	W	88	GLN
1	W	118	ASN
1	W	122	HIS
1	W	234	ASN
1	W	254	GLN
1	W	321	GLN
1	W	329	GLN
1	W	338	GLN
1	W	352	GLN
1	W	384	GLN
1	W	453	ASN
1	W	464	HIS
1	W	494	GLN
1	W	509	HIS
1	W	534	HIS
1	W	648	GLN
1	W	659	GLN
1	W	691	GLN
1	W	696	GLN
1	X	17	HIS
1	X	21	GLN
1	X	22	ASN
1	X	24	ASN
1	X	40	ASN
1	X	88	GLN
1	X	94	GLN
1	X	118	ASN
1	X	133	ASN
1	X	234	ASN
1	X	254	GLN
1	X	280	HIS
1	X	338	GLN
1	X	352	GLN
1	X	385	ASN
1	X	494	GLN
1	X	678	GLN
1	X	691	GLN
1	X	696	GLN
1	X	776	GLN
1	Y	17	HIS

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Mol	Chain	Res	Type
1	Y	21	GLN
1	Y	22	ASN
1	Y	40	ASN
1	Y	70	GLN
1	Y	88	GLN
1	Y	118	ASN
1	Y	234	ASN
1	Y	254	GLN
1	Y	298	GLN
1	Y	311	GLN
1	Y	329	GLN
1	Y	352	GLN
1	Y	378	GLN
1	Y	384	GLN
1	Y	385	ASN
1	Y	469	GLN
1	Y	494	GLN
1	Y	509	HIS
1	Y	630	GLN
1	Y	659	GLN
1	Y	696	GLN
1	Y	749	GLN
1	Y	776	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	294	ASN
1	Z	494	GLN
1	Z	648	GLN
1	Z	678	GLN
1	Z	776	GLN
1	a	17	HIS
1	a	21	GLN
1	a	22	ASN

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Mol	Chain	Res	Type
1	a	40	ASN
1	a	57	HIS
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	329	GLN
1	a	338	GLN
1	a	385	ASN
1	a	410	GLN
1	a	469	GLN
1	a	494	GLN
1	a	509	HIS
1	a	544	ASN
1	a	546	HIS
1	a	551	ASN
1	a	630	GLN
1	a	749	GLN
1	b	17	HIS
1	b	22	ASN
1	b	40	ASN
1	b	118	ASN
1	b	164	GLN
1	b	234	ASN
1	b	254	GLN
1	b	321	GLN
1	b	329	GLN
1	b	338	GLN
1	b	378	GLN
1	b	494	GLN
1	b	534	HIS
1	b	544	ASN
1	b	630	GLN
1	b	696	GLN
1	b	721	ASN
1	b	749	GLN
1	b	789	ASN
1	c	17	HIS
1	c	22	ASN

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Mol	Chain	Res	Type
1	c	24	ASN
1	c	40	ASN
1	c	70	GLN
1	c	88	GLN
1	c	118	ASN
1	c	122	HIS
1	c	164	GLN
1	c	234	ASN
1	c	254	GLN
1	c	298	GLN
1	c	338	GLN
1	c	378	GLN
1	c	385	ASN
1	c	494	GLN
1	c	534	HIS
1	c	648	GLN
1	c	659	GLN
1	c	669	GLN
1	c	675	HIS
1	c	776	GLN
1	d	21	GLN
1	d	22	ASN
1	d	24	ASN
1	d	40	ASN
1	d	70	GLN
1	d	118	ASN
1	d	133	ASN
1	d	164	GLN
1	d	233	GLN
1	d	234	ASN
1	d	254	GLN
1	d	294	ASN
1	d	311	GLN
1	d	378	GLN
1	d	384	GLN
1	d	385	ASN
1	d	494	GLN
1	d	544	ASN
1	d	691	GLN
1	d	696	GLN
1	d	749	GLN
1	e	17	HIS

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Mol	Chain	Res	Type
1	e	22	ASN
1	e	24	ASN
1	e	40	ASN
1	e	118	ASN
1	e	164	GLN
1	e	234	ASN
1	e	254	GLN
1	e	298	GLN
1	e	329	GLN
1	e	378	GLN
1	e	385	ASN
1	e	469	GLN
1	e	509	HIS
1	e	534	HIS
1	e	648	GLN
1	e	675	HIS
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	88	GLN
1	f	118	ASN
1	f	234	ASN
1	f	254	GLN
1	f	259	HIS
1	f	280	HIS
1	f	294	ASN
1	f	321	GLN
1	f	351	HIS
1	f	378	GLN
1	f	385	ASN
1	f	428	ASN
1	f	509	HIS
1	f	534	HIS
1	f	630	GLN
1	f	691	GLN
1	f	696	GLN
1	f	721	ASN

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Mol	Chain	Res	Type
1	g	17	HIS
1	g	22	ASN
1	g	24	ASN
1	g	40	ASN
1	g	70	GLN
1	g	118	ASN
1	g	122	HIS
1	g	133	ASN
1	g	234	ASN
1	g	254	GLN
1	g	311	GLN
1	g	329	GLN
1	g	352	GLN
1	g	378	GLN
1	g	385	ASN
1	g	391	GLN
1	g	494	GLN
1	g	534	HIS
1	g	630	GLN
1	g	776	GLN
1	g	785	GLN
1	h	17	HIS
1	h	22	ASN
1	h	40	ASN
1	h	70	GLN
1	h	88	GLN
1	h	94	GLN
1	h	118	ASN
1	h	122	HIS
1	h	234	ASN
1	h	254	GLN
1	h	280	HIS
1	h	385	ASN
1	h	428	ASN
1	h	494	GLN
1	h	534	HIS
1	h	625	GLN
1	h	630	GLN
1	h	691	GLN
1	h	696	GLN
1	h	789	ASN
1	i	17	HIS

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Mol	Chain	Res	Type
1	i	21	GLN
1	i	22	ASN
1	i	24	ASN
1	i	40	ASN
1	i	70	GLN
1	i	88	GLN
1	i	118	ASN
1	i	234	ASN
1	i	254	GLN
1	i	385	ASN
1	i	469	GLN
1	i	494	GLN
1	i	509	HIS
1	i	534	HIS
1	i	592	HIS
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	80	GLN
1	j	118	ASN
1	j	122	HIS
1	j	234	ASN
1	j	254	GLN
1	j	280	HIS
1	j	294	ASN
1	j	311	GLN
1	j	428	ASN
1	j	464	HIS
1	j	469	GLN
1	j	494	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	122	HIS

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Mol	Chain	Res	Type
1	k	133	ASN
1	k	234	ASN
1	k	254	GLN
1	k	329	GLN
1	k	351	HIS
1	k	385	ASN
1	k	464	HIS
1	k	469	GLN
1	k	494	GLN
1	k	546	HIS
1	k	551	ASN
1	k	625	GLN
1	k	641	GLN
1	k	655	GLN
1	k	682	GLN
1	k	696	GLN
1	k	785	GLN
1	k	789	ASN
1	l	17	HIS
1	l	22	ASN
1	l	40	ASN
1	l	88	GLN
1	l	118	ASN
1	l	122	HIS
1	l	234	ASN
1	l	254	GLN
1	l	329	GLN
1	l	385	ASN
1	l	469	GLN
1	l	494	GLN
1	l	534	HIS
1	l	544	ASN
1	l	630	GLN
1	l	648	GLN
1	l	749	GLN
1	l	776	GLN
1	l	789	ASN
1	m	17	HIS
1	m	22	ASN
1	m	24	ASN
1	m	40	ASN
1	m	118	ASN

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Mol	Chain	Res	Type
1	m	122	HIS
1	m	234	ASN
1	m	254	GLN
1	m	280	HIS
1	m	294	ASN
1	m	338	GLN
1	m	384	GLN
1	m	385	ASN
1	m	410	GLN
1	m	464	HIS
1	m	544	ASN
1	m	630	GLN
1	m	691	GLN
1	m	749	GLN
1	m	785	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 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(Å²)	Q<0.9	
1	A	812/861 (94%)	1.37	129 (15%)	5	4	46, 106, 218, 285	0
1	B	812/861 (94%)	1.43	131 (16%)	4	4	30, 112, 219, 284	0
1	C	812/861 (94%)	1.42	120 (14%)	5	5	54, 113, 221, 291	0
1	D	812/861 (94%)	1.41	108 (13%)	7	6	43, 113, 218, 277	0
1	E	812/861 (94%)	1.52	137 (16%)	4	4	53, 112, 222, 283	0
1	F	812/861 (94%)	1.46	126 (15%)	5	5	46, 114, 223, 278	0
1	G	812/861 (94%)	1.47	144 (17%)	4	4	55, 113, 223, 258	0
1	H	812/861 (94%)	1.42	125 (15%)	5	5	50, 112, 221, 281	0
1	I	812/861 (94%)	1.37	125 (15%)	5	5	56, 108, 215, 266	0
1	J	812/861 (94%)	1.43	133 (16%)	4	4	44, 105, 215, 277	0
1	K	812/861 (94%)	1.49	131 (16%)	4	4	32, 98, 207, 278	0
1	L	812/861 (94%)	1.50	139 (17%)	4	4	33, 99, 210, 277	0
1	M	812/861 (94%)	1.54	165 (20%)	3	3	45, 103, 207, 293	0
1	N	812/861 (94%)	1.66	172 (21%)	2	3	40, 104, 210, 249	0
1	O	812/861 (94%)	1.56	152 (18%)	3	4	33, 103, 214, 272	0
1	P	812/861 (94%)	1.47	139 (17%)	4	4	35, 103, 211, 294	0
1	Q	812/861 (94%)	1.49	142 (17%)	4	4	35, 101, 215, 277	0
1	R	812/861 (94%)	1.46	140 (17%)	4	4	37, 101, 217, 298	0
1	S	812/861 (94%)	1.44	139 (17%)	4	4	48, 106, 212, 284	0
1	T	812/861 (94%)	1.44	143 (17%)	4	4	52, 114, 220, 288	0
1	U	812/861 (94%)	1.53	136 (16%)	4	4	53, 113, 221, 282	0
1	V	812/861 (94%)	1.49	137 (16%)	4	4	57, 114, 220, 287	0
1	W	812/861 (94%)	1.58	137 (16%)	4	4	48, 116, 223, 288	0
1	X	812/861 (94%)	1.57	143 (17%)	4	4	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%)	1.47	127 (15%)	5	5	43, 117, 218, 278	0
1	Z	812/861 (94%)	1.40	131 (16%)	4	4	51, 114, 219, 263	0
1	a	812/861 (94%)	1.39	133 (16%)	4	4	50, 113, 216, 300	0
1	b	812/861 (94%)	1.40	121 (14%)	5	5	28, 110, 217, 281	0
1	c	812/861 (94%)	1.38	112 (13%)	6	5	26, 109, 218, 277	0
1	d	812/861 (94%)	1.41	126 (15%)	5	5	49, 106, 213, 274	0
1	e	812/861 (94%)	1.42	127 (15%)	5	5	47, 105, 210, 284	0
1	f	812/861 (94%)	1.49	134 (16%)	4	4	43, 106, 214, 266	0
1	g	812/861 (94%)	1.58	153 (18%)	3	3	50, 109, 213, 285	0
1	h	812/861 (94%)	1.74	189 (23%)	2	2	54, 110, 210, 277	0
1	i	812/861 (94%)	1.57	174 (21%)	2	3	48, 108, 215, 271	0
1	j	812/861 (94%)	1.45	141 (17%)	4	4	50, 105, 216, 267	0
1	k	812/861 (94%)	1.41	121 (14%)	5	5	41, 104, 210, 261	0
1	l	812/861 (94%)	1.40	124 (15%)	5	5	46, 105, 213, 300	0
1	m	812/861 (94%)	1.33	126 (15%)	5	5	40, 106, 219, 276	0
All	All	31668/33579 (94%)	1.47	5332 (16%)	4	4	26, 108, 217, 300	0

All (5332) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	g	840	ASN	44.1
1	S	840	ASN	41.0
1	U	840	ASN	38.8
1	P	840	ASN	38.5
1	B	842	PHE	37.3
1	O	840	ASN	37.2
1	f	842	PHE	36.9
1	h	840	ASN	35.8
1	c	842	PHE	35.4
1	R	840	ASN	35.4
1	N	842	PHE	35.3
1	Z	842	PHE	35.3
1	C	842	PHE	35.1
1	O	845	ALA	34.8
1	d	842	PHE	34.7
1	i	842	PHE	34.7
1	Y	843	SER	34.5

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Mol	Chain	Res	Type	RSRZ
1	F	842	PHE	33.9
1	R	843	SER	33.9
1	j	840	ASN	33.8
1	e	842	PHE	33.6
1	N	840	ASN	33.6
1	L	843	SER	33.4
1	b	844	THR	33.3
1	i	840	ASN	33.3
1	T	840	ASN	33.2
1	k	840	ASN	33.1
1	U	843	SER	33.1
1	E	842	PHE	33.1
1	A	842	PHE	32.9
1	T	843	SER	32.9
1	Q	843	SER	32.8
1	m	840	ASN	32.8
1	X	842	PHE	32.7
1	C	843	SER	32.3
1	m	842	PHE	32.3
1	m	845	ALA	32.2
1	g	842	PHE	32.1
1	Q	840	ASN	32.1
1	j	842	PHE	32.1
1	K	843	SER	31.9
1	a	845	ALA	31.8
1	P	845	ALA	31.7
1	N	845	ALA	31.7
1	f	840	ASN	31.2
1	G	842	PHE	31.1
1	c	843	SER	30.9
1	g	843	SER	30.9
1	g	844	THR	30.7
1	l	840	ASN	30.4
1	U	827	LEU	30.4
1	S	843	SER	30.3
1	h	845	ALA	30.3
1	d	843	SER	29.9
1	X	843	SER	29.8
1	W	840	ASN	29.7
1	h	842	PHE	29.7
1	f	843	SER	29.6
1	b	842	PHE	29.5

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Mol	Chain	Res	Type	RSRZ
1	Z	844	THR	29.4
1	F	838	PRO	29.4
1	e	843	SER	29.3
1	O	843	SER	29.3
1	S	839	ILE	29.2
1	J	843	SER	29.2
1	Y	840	ASN	29.1
1	B	845	ALA	28.9
1	D	843	SER	28.7
1	a	840	ASN	28.6
1	E	843	SER	28.4
1	I	843	SER	28.4
1	U	844	THR	28.3
1	k	842	PHE	28.3
1	D	840	ASN	28.1
1	K	842	PHE	28.1
1	B	840	ASN	28.0
1	K	840	ASN	28.0
1	a	843	SER	28.0
1	J	842	PHE	27.9
1	j	845	ALA	27.7
1	W	843	SER	27.7
1	D	842	PHE	27.6
1	O	842	PHE	27.6
1	a	844	THR	27.6
1	Y	842	PHE	27.6
1	b	845	ALA	27.5
1	I	842	PHE	27.5
1	U	842	PHE	27.5
1	H	842	PHE	27.4
1	V	843	SER	27.4
1	i	845	ALA	27.4
1	S	827	LEU	27.4
1	A	840	ASN	27.3
1	N	839	ILE	27.3
1	h	827	LEU	27.3
1	B	820	LYS	27.2
1	D	844	THR	27.2
1	M	843	SER	27.2
1	V	840	ASN	27.2
1	U	839	ILE	27.2
1	l	842	PHE	27.0

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Mol	Chain	Res	Type	RSRZ
1	i	843	SER	27.0
1	M	820	LYS	26.9
1	P	832	ILE	26.9
1	T	839	ILE	26.9
1	a	842	PHE	26.9
1	I	820	LYS	26.8
1	l	845	ALA	26.7
1	P	842	PHE	26.7
1	C	845	ALA	26.7
1	c	845	ALA	26.5
1	Y	839	ILE	26.5
1	M	840	ASN	26.3
1	H	843	SER	26.2
1	N	820	LYS	26.2
1	j	843	SER	26.2
1	D	845	ALA	26.2
1	c	840	ASN	26.1
1	M	845	ALA	26.1
1	U	832	ILE	26.1
1	X	840	ASN	26.0
1	T	827	LEU	25.9
1	e	840	ASN	25.9
1	b	840	ASN	25.9
1	d	827	LEU	25.9
1	T	838	PRO	25.8
1	c	844	THR	25.7
1	O	839	ILE	25.6
1	f	844	THR	25.6
1	f	832	ILE	25.6
1	R	844	THR	25.6
1	P	838	PRO	25.5
1	L	845	ALA	25.5
1	N	838	PRO	25.5
1	F	841	LEU	25.4
1	E	845	ALA	25.4
1	B	843	SER	25.3
1	M	842	PHE	25.3
1	E	840	ASN	25.2
1	L	840	ASN	25.2
1	k	845	ALA	25.2
1	V	839	ILE	25.2
1	G	820	LYS	25.2

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Mol	Chain	Res	Type	RSRZ
1	A	820	LYS	25.1
1	E	844	THR	25.1
1	f	839	ILE	25.0
1	F	840	ASN	25.0
1	Y	844	THR	25.0
1	I	835	GLY	24.9
1	Q	839	ILE	24.9
1	e	833	THR	24.9
1	L	842	PHE	24.9
1	G	843	SER	24.8
1	X	839	ILE	24.8
1	Z	839	ILE	24.8
1	F	820	LYS	24.8
1	U	820	LYS	24.8
1	Q	842	PHE	24.7
1	P	827	LEU	24.7
1	D	820	LYS	24.7
1	b	820	LYS	24.7
1	N	832	ILE	24.7
1	f	827	LEU	24.7
1	W	839	ILE	24.7
1	O	820	LYS	24.6
1	P	843	SER	24.6
1	d	839	ILE	24.6
1	h	843	SER	24.6
1	a	839	ILE	24.6
1	Z	840	ASN	24.4
1	A	832	ILE	24.4
1	T	832	ILE	24.4
1	S	838	PRO	24.4
1	O	844	THR	24.4
1	c	839	ILE	24.3
1	C	840	ASN	24.3
1	F	829	SER	24.3
1	L	844	THR	24.3
1	P	839	ILE	24.2
1	A	845	ALA	24.2
1	T	842	PHE	24.2
1	g	845	ALA	24.1
1	C	839	ILE	24.1
1	N	843	SER	24.1
1	d	844	THR	24.1

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Mol	Chain	Res	Type	RSRZ
1	W	844	THR	24.0
1	e	844	THR	24.0
1	b	843	SER	23.9
1	J	840	ASN	23.9
1	C	832	ILE	23.9
1	H	839	ILE	23.9
1	H	840	ASN	23.9
1	h	839	ILE	23.9
1	Q	844	THR	23.9
1	W	832	ILE	23.8
1	Z	843	SER	23.8
1	M	844	THR	23.8
1	P	829	SER	23.8
1	F	845	ALA	23.8
1	F	843	SER	23.7
1	M	838	PRO	23.7
1	F	839	ILE	23.7
1	L	820	LYS	23.7
1	H	818	GLN	23.7
1	a	832	ILE	23.6
1	I	839	ILE	23.6
1	e	838	PRO	23.6
1	g	827	LEU	23.5
1	d	840	ASN	23.4
1	e	841	LEU	23.3
1	L	839	ILE	23.3
1	e	827	LEU	23.3
1	Q	829	SER	23.3
1	A	843	SER	23.3
1	H	827	LEU	23.2
1	i	835	GLY	23.2
1	Z	845	ALA	23.2
1	G	839	ILE	23.1
1	f	845	ALA	23.1
1	h	844	THR	23.1
1	E	838	PRO	22.9
1	O	838	PRO	22.9
1	m	827	LEU	22.8
1	B	839	ILE	22.8
1	h	829	SER	22.8
1	H	829	SER	22.8
1	V	838	PRO	22.8

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Mol	Chain	Res	Type	RSRZ
1	P	844	THR	22.8
1	e	845	ALA	22.7
1	g	832	ILE	22.7
1	I	819	VAL	22.7
1	V	844	THR	22.6
1	H	832	ILE	22.6
1	h	832	ILE	22.6
1	e	829	SER	22.6
1	h	837	SER	22.5
1	G	840	ASN	22.5
1	N	833	THR	22.5
1	K	845	ALA	22.5
1	e	839	ILE	22.5
1	K	839	ILE	22.5
1	G	844	THR	22.5
1	U	833	THR	22.5
1	g	839	ILE	22.4
1	H	820	LYS	22.4
1	d	845	ALA	22.4
1	O	829	SER	22.3
1	c	832	ILE	22.3
1	N	829	SER	22.3
1	h	841	LEU	22.3
1	M	823	GLN	22.3
1	a	820	LYS	22.2
1	K	824	SER	22.2
1	j	837	SER	22.2
1	J	839	ILE	22.2
1	M	832	ILE	22.2
1	V	820	LYS	22.2
1	Q	832	ILE	22.2
1	G	829	SER	22.2
1	R	839	ILE	22.1
1	S	844	THR	22.1
1	O	827	LEU	22.1
1	f	841	LEU	22.1
1	b	839	ILE	22.0
1	V	833	THR	22.0
1	D	824	SER	22.0
1	E	820	LYS	22.0
1	R	842	PHE	22.0
1	E	818	GLN	21.9

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Mol	Chain	Res	Type	RSRZ
1	X	845	ALA	21.9
1	H	835	GLY	21.9
1	A	824	SER	21.9
1	h	828	LYS	21.9
1	g	838	PRO	21.8
1	k	843	SER	21.8
1	b	837	SER	21.8
1	U	838	PRO	21.8
1	K	829	SER	21.8
1	V	832	ILE	21.8
1	I	838	PRO	21.8
1	d	829	SER	21.8
1	G	838	PRO	21.8
1	L	829	SER	21.7
1	T	819	VAL	21.7
1	i	829	SER	21.7
1	k	827	LEU	21.6
1	E	829	SER	21.6
1	S	820	LYS	21.6
1	e	834	ASP	21.6
1	O	823	GLN	21.6
1	T	829	SER	21.6
1	h	838	PRO	21.6
1	A	829	SER	21.5
1	m	820	LYS	21.5
1	F	818	GLN	21.5
1	C	837	SER	21.5
1	X	829	SER	21.5
1	I	829	SER	21.4
1	R	832	ILE	21.4
1	W	842	PHE	21.4
1	T	820	LYS	21.4
1	V	829	SER	21.4
1	E	839	ILE	21.4
1	V	842	PHE	21.4
1	d	838	PRO	21.4
1	G	837	SER	21.3
1	X	844	THR	21.3
1	Z	838	PRO	21.3
1	A	827	LEU	21.3
1	D	839	ILE	21.3
1	I	840	ASN	21.3

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Mol	Chain	Res	Type	RSRZ
1	K	823	GLN	21.3
1	f	838	PRO	21.3
1	k	829	SER	21.2
1	B	834	ASP	21.2
1	G	819	VAL	21.2
1	e	824	SER	21.2
1	j	839	ILE	21.2
1	I	818	GLN	21.2
1	W	826	GLY	21.2
1	K	820	LYS	21.1
1	L	835	GLY	21.1
1	N	844	THR	21.1
1	G	845	ALA	21.1
1	e	826	GLY	21.1
1	Q	845	ALA	21.1
1	B	829	SER	21.1
1	m	818	GLN	21.0
1	L	832	ILE	21.0
1	P	826	GLY	21.0
1	M	839	ILE	21.0
1	D	837	SER	21.0
1	k	824	SER	21.0
1	D	829	SER	21.0
1	g	829	SER	21.0
1	G	818	GLN	21.0
1	C	844	THR	21.0
1	Y	833	THR	21.0
1	I	833	THR	20.9
1	K	838	PRO	20.9
1	c	829	SER	20.9
1	J	827	LEU	20.9
1	l	839	ILE	20.9
1	f	833	THR	20.9
1	g	833	THR	20.9
1	D	819	VAL	20.9
1	H	821	LEU	20.9
1	J	818	GLN	20.9
1	S	824	SER	20.8
1	l	834	ASP	20.8
1	d	820	LYS	20.8
1	J	838	PRO	20.8
1	m	839	ILE	20.8

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Mol	Chain	Res	Type	RSRZ
1	T	844	THR	20.8
1	a	834	ASP	20.8
1	W	829	SER	20.8
1	N	827	LEU	20.8
1	W	838	PRO	20.8
1	J	820	LYS	20.7
1	F	837	SER	20.7
1	L	838	PRO	20.6
1	I	832	ILE	20.6
1	f	829	SER	20.6
1	l	829	SER	20.6
1	H	845	ALA	20.6
1	Z	820	LYS	20.6
1	R	827	LEU	20.5
1	E	837	SER	20.5
1	J	829	SER	20.5
1	j	829	SER	20.5
1	A	839	ILE	20.5
1	e	832	ILE	20.5
1	C	820	LYS	20.4
1	C	829	SER	20.4
1	j	832	ILE	20.4
1	P	823	GLN	20.4
1	D	832	ILE	20.4
1	U	829	SER	20.4
1	b	841	LEU	20.4
1	S	842	PHE	20.4
1	C	818	GLN	20.4
1	f	824	SER	20.4
1	R	838	PRO	20.4
1	F	819	VAL	20.3
1	J	844	THR	20.3
1	L	834	ASP	20.3
1	H	838	PRO	20.3
1	b	819	VAL	20.3
1	O	819	VAL	20.2
1	Z	837	SER	20.2
1	J	834	ASP	20.2
1	T	824	SER	20.2
1	G	832	ILE	20.2
1	W	830	THR	20.2
1	V	826	GLY	20.2

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Mol	Chain	Res	Type	RSRZ
1	M	829	SER	20.2
1	K	844	THR	20.2
1	N	818	GLN	20.2
1	Q	838	PRO	20.2
1	O	826	GLY	20.2
1	i	844	THR	20.1
1	k	820	LYS	20.1
1	i	827	LEU	20.1
1	f	834	ASP	20.1
1	l	827	LEU	20.1
1	m	832	ILE	20.0
1	d	837	SER	20.0
1	f	826	GLY	20.0
1	X	828	LYS	20.0
1	d	834	ASP	20.0
1	c	820	LYS	20.0
1	I	827	LEU	20.0
1	U	828	LYS	20.0
1	H	844	THR	20.0
1	O	824	SER	20.0
1	B	844	THR	19.9
1	W	27	ARG	19.9
1	a	841	LEU	19.9
1	J	832	ILE	19.9
1	K	818	GLN	19.9
1	F	844	THR	19.9
1	b	829	SER	19.9
1	i	824	SER	19.9
1	H	819	VAL	19.9
1	J	830	THR	19.9
1	B	824	SER	19.9
1	N	824	SER	19.9
1	b	826	GLY	19.9
1	g	824	SER	19.8
1	W	820	LYS	19.8
1	i	839	ILE	19.8
1	d	826	GLY	19.8
1	d	823	GLN	19.8
1	m	829	SER	19.8
1	D	818	GLN	19.8
1	Z	832	ILE	19.8
1	K	826	GLY	19.8

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Mol	Chain	Res	Type	RSRZ
1	L	819	VAL	19.8
1	Z	830	THR	19.8
1	F	832	ILE	19.8
1	Y	829	SER	19.8
1	L	833	THR	19.8
1	h	824	SER	19.7
1	E	827	LEU	19.7
1	i	832	ILE	19.7
1	V	827	LEU	19.7
1	m	843	SER	19.7
1	B	823	GLN	19.7
1	N	841	LEU	19.6
1	K	819	VAL	19.6
1	d	832	ILE	19.6
1	l	826	GLY	19.6
1	j	824	SER	19.6
1	c	834	ASP	19.6
1	M	827	LEU	19.6
1	j	844	THR	19.6
1	E	832	ILE	19.6
1	W	823	GLN	19.5
1	R	829	SER	19.5
1	l	824	SER	19.5
1	B	826	GLY	19.4
1	L	818	GLN	19.4
1	X	818	GLN	19.4
1	P	819	VAL	19.4
1	R	824	SER	19.4
1	h	831	LEU	19.4
1	b	818	GLN	19.4
1	k	819	VAL	19.4
1	K	841	LEU	19.4
1	b	838	PRO	19.4
1	m	819	VAL	19.3
1	Y	818	GLN	19.3
1	e	830	THR	19.3
1	G	816	GLU	19.3
1	Z	829	SER	19.3
1	R	820	LYS	19.3
1	i	818	GLN	19.3
1	Y	838	PRO	19.3
1	a	830	THR	19.3

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Mol	Chain	Res	Type	RSRZ
1	Z	834	ASP	19.2
1	d	818	GLN	19.2
1	k	818	GLN	19.2
1	L	824	SER	19.2
1	O	818	GLN	19.2
1	c	818	GLN	19.2
1	W	824	SER	19.2
1	F	817	MET	19.2
1	M	821	LEU	19.2
1	E	817	MET	19.2
1	G	827	LEU	19.2
1	F	830	THR	19.2
1	Y	834	ASP	19.2
1	k	826	GLY	19.1
1	N	817	MET	19.1
1	Q	26	SER	19.1
1	Q	824	SER	19.1
1	O	832	ILE	19.1
1	C	834	ASP	19.1
1	F	834	ASP	19.1
1	S	826	GLY	19.1
1	d	824	SER	19.1
1	P	820	LYS	19.1
1	g	834	ASP	19.1
1	R	826	GLY	19.1
1	Y	824	SER	19.1
1	k	832	ILE	19.0
1	g	830	THR	19.0
1	N	819	VAL	19.0
1	B	818	GLN	19.0
1	I	844	THR	19.0
1	O	833	THR	19.0
1	Z	819	VAL	19.0
1	Q	833	THR	19.0
1	h	819	VAL	19.0
1	M	826	GLY	19.0
1	J	824	SER	19.0
1	a	837	SER	19.0
1	L	828	LYS	19.0
1	g	823	GLN	19.0
1	P	830	THR	19.0
1	V	824	SER	18.9

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Mol	Chain	Res	Type	RSRZ
1	a	829	SER	18.9
1	U	818	GLN	18.9
1	j	827	LEU	18.9
1	J	837	SER	18.9
1	N	837	SER	18.9
1	U	824	SER	18.9
1	Y	845	ALA	18.9
1	m	824	SER	18.9
1	L	826	GLY	18.9
1	Z	841	LEU	18.9
1	R	830	THR	18.9
1	h	834	ASP	18.9
1	L	827	LEU	18.9
1	Z	818	GLN	18.9
1	K	832	ILE	18.9
1	X	838	PRO	18.9
1	H	817	MET	18.9
1	d	821	LEU	18.9
1	O	837	SER	18.8
1	A	826	GLY	18.8
1	L	837	SER	18.8
1	S	832	ILE	18.8
1	N	826	GLY	18.8
1	j	826	GLY	18.8
1	J	845	ALA	18.7
1	M	818	GLN	18.7
1	W	818	GLN	18.7
1	g	828	LYS	18.7
1	S	819	VAL	18.7
1	g	820	LYS	18.7
1	J	823	GLN	18.7
1	G	817	MET	18.7
1	C	833	THR	18.7
1	Q	828	LYS	18.7
1	Y	820	LYS	18.7
1	N	834	ASP	18.7
1	G	841	LEU	18.7
1	C	819	VAL	18.6
1	M	824	SER	18.6
1	O	834	ASP	18.6
1	Y	837	SER	18.6
1	c	830	THR	18.6

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Mol	Chain	Res	Type	RSRZ
1	a	818	GLN	18.6
1	C	826	GLY	18.6
1	S	829	SER	18.6
1	Q	818	GLN	18.6
1	I	834	ASP	18.6
1	V	830	THR	18.6
1	B	821	LEU	18.6
1	M	830	THR	18.5
1	b	830	THR	18.5
1	A	834	ASP	18.5
1	C	824	SER	18.5
1	I	824	SER	18.5
1	K	827	LEU	18.5
1	A	838	PRO	18.5
1	S	828	LYS	18.5
1	l	828	LYS	18.5
1	c	819	VAL	18.5
1	e	819	VAL	18.5
1	T	828	LYS	18.5
1	T	826	GLY	18.5
1	W	819	VAL	18.5
1	a	835	GLY	18.5
1	d	830	THR	18.5
1	L	841	LEU	18.5
1	Y	832	ILE	18.5
1	X	835	GLY	18.5
1	G	826	GLY	18.4
1	b	824	SER	18.4
1	I	826	GLY	18.4
1	M	834	ASP	18.4
1	X	819	VAL	18.4
1	U	826	GLY	18.4
1	Y	826	GLY	18.4
1	G	821	LEU	18.4
1	X	823	GLN	18.4
1	b	832	ILE	18.3
1	D	830	THR	18.3
1	S	818	GLN	18.3
1	i	819	VAL	18.3
1	U	834	ASP	18.3
1	g	826	GLY	18.3
1	S	845	ALA	18.3

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Mol	Chain	Res	Type	RSRZ
1	e	823	GLN	18.3
1	i	823	GLN	18.3
1	l	818	GLN	18.3
1	P	824	SER	18.3
1	H	826	GLY	18.3
1	c	838	PRO	18.2
1	X	826	GLY	18.2
1	m	826	GLY	18.2
1	a	838	PRO	18.2
1	T	830	THR	18.2
1	i	834	ASP	18.2
1	X	832	ILE	18.2
1	c	841	LEU	18.2
1	G	824	SER	18.2
1	X	820	LYS	18.2
1	I	830	THR	18.2
1	f	830	THR	18.2
1	C	822	LEU	18.2
1	L	830	THR	18.2
1	G	823	GLN	18.2
1	m	823	GLN	18.2
1	I	816	GLU	18.1
1	A	817	MET	18.1
1	j	833	THR	18.1
1	J	819	VAL	18.1
1	k	839	ILE	18.1
1	I	821	LEU	18.1
1	D	826	GLY	18.1
1	K	834	ASP	18.1
1	e	835	GLY	18.1
1	R	819	VAL	18.1
1	f	823	GLN	18.1
1	Z	824	SER	18.1
1	a	819	VAL	18.1
1	F	827	LEU	18.1
1	V	818	GLN	18.1
1	h	835	GLY	18.1
1	F	824	SER	18.1
1	A	844	THR	18.1
1	U	835	GLY	18.1
1	H	837	SER	18.0
1	J	833	THR	18.0

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Mol	Chain	Res	Type	RSRZ
1	a	833	THR	18.0
1	j	818	GLN	18.0
1	C	838	PRO	18.0
1	i	838	PRO	18.0
1	S	823	GLN	18.0
1	V	828	LYS	18.0
1	B	830	THR	18.0
1	K	822	LEU	18.0
1	h	826	GLY	18.0
1	B	819	VAL	18.0
1	E	821	LEU	18.0
1	i	831	LEU	18.0
1	m	834	ASP	17.9
1	b	827	LEU	17.9
1	X	841	LEU	17.9
1	T	823	GLN	17.9
1	I	845	ALA	17.9
1	a	824	SER	17.9
1	l	823	GLN	17.9
1	G	830	THR	17.9
1	D	821	LEU	17.9
1	M	822	LEU	17.9
1	M	819	VAL	17.8
1	L	831	LEU	17.8
1	U	819	VAL	17.8
1	i	826	GLY	17.8
1	K	830	THR	17.8
1	a	821	LEU	17.8
1	i	833	THR	17.8
1	j	830	THR	17.8
1	H	834	ASP	17.8
1	F	831	LEU	17.8
1	J	826	GLY	17.8
1	V	845	ALA	17.7
1	E	819	VAL	17.7
1	k	838	PRO	17.7
1	F	816	GLU	17.7
1	I	817	MET	17.7
1	D	838	PRO	17.7
1	l	832	ILE	17.7
1	Y	835	GLY	17.7
1	l	843	SER	17.7

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Mol	Chain	Res	Type	RSRZ
1	C	823	GLN	17.6
1	g	819	VAL	17.6
1	f	835	GLY	17.6
1	B	817	MET	17.6
1	e	818	GLN	17.6
1	D	834	ASP	17.6
1	H	830	THR	17.6
1	L	822	LEU	17.6
1	e	821	LEU	17.6
1	d	835	GLY	17.6
1	l	838	PRO	17.6
1	Z	826	GLY	17.6
1	N	823	GLN	17.6
1	B	822	LEU	17.6
1	U	830	THR	17.6
1	Y	830	THR	17.6
1	B	816	GLU	17.6
1	E	834	ASP	17.6
1	V	834	ASP	17.6
1	J	831	LEU	17.6
1	X	26	SER	17.6
1	Z	828	LYS	17.5
1	h	818	GLN	17.5
1	O	830	THR	17.5
1	X	830	THR	17.5
1	F	826	GLY	17.5
1	M	835	GLY	17.5
1	i	828	LYS	17.5
1	D	817	MET	17.5
1	Y	827	LEU	17.5
1	K	828	LYS	17.5
1	V	819	VAL	17.5
1	G	833	THR	17.5
1	R	833	THR	17.5
1	Y	821	LEU	17.5
1	P	834	ASP	17.5
1	E	826	GLY	17.5
1	Q	823	GLN	17.5
1	V	823	GLN	17.5
1	C	821	LEU	17.4
1	X	80	GLN	17.4
1	Q	834	ASP	17.4

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Mol	Chain	Res	Type	RSRZ
1	a	826	GLY	17.4
1	U	823	GLN	17.4
1	D	827	LEU	17.4
1	j	820	LYS	17.4
1	c	817	MET	17.4
1	D	822	LEU	17.4
1	e	837	SER	17.4
1	g	818	GLN	17.4
1	U	817	MET	17.4
1	C	825	LEU	17.3
1	C	827	LEU	17.3
1	F	822	LEU	17.3
1	F	825	LEU	17.3
1	J	828	LYS	17.3
1	T	833	THR	17.3
1	Q	827	LEU	17.3
1	F	828	LYS	17.3
1	l	830	THR	17.3
1	k	831	LEU	17.3
1	f	820	LYS	17.3
1	i	825	LEU	17.2
1	j	835	GLY	17.2
1	V	831	LEU	17.2
1	Z	821	LEU	17.2
1	K	837	SER	17.2
1	F	821	LEU	17.2
1	M	831	LEU	17.2
1	A	819	VAL	17.2
1	G	834	ASP	17.2
1	H	824	SER	17.2
1	T	834	ASP	17.2
1	d	828	LYS	17.2
1	Y	819	VAL	17.1
1	f	819	VAL	17.1
1	d	833	THR	17.1
1	W	822	LEU	17.1
1	Q	826	GLY	17.1
1	c	826	GLY	17.1
1	Y	823	GLN	17.1
1	A	828	LYS	17.1
1	U	831	LEU	17.1
1	g	841	LEU	17.1

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Mol	Chain	Res	Type	RSRZ
1	E	830	THR	17.1
1	J	816	GLU	17.1
1	i	837	SER	17.1
1	Q	819	VAL	17.1
1	R	845	ALA	17.1
1	Z	823	GLN	17.0
1	E	833	THR	17.0
1	Q	830	THR	17.0
1	h	823	GLN	17.0
1	c	816	GLU	17.0
1	B	827	LEU	17.0
1	f	828	LYS	16.9
1	F	835	GLY	16.9
1	j	823	GLN	16.9
1	J	817	MET	16.9
1	K	817	MET	16.9
1	K	833	THR	16.9
1	m	816	GLU	16.9
1	T	818	GLN	16.9
1	b	821	LEU	16.9
1	K	825	LEU	16.9
1	O	841	LEU	16.9
1	M	833	THR	16.8
1	N	830	THR	16.8
1	X	817	MET	16.8
1	N	822	LEU	16.8
1	M	828	LYS	16.8
1	b	834	ASP	16.8
1	E	823	GLN	16.8
1	G	835	GLY	16.8
1	B	832	ILE	16.8
1	K	835	GLY	16.8
1	O	828	LYS	16.8
1	J	821	LEU	16.8
1	Y	822	LEU	16.8
1	I	841	LEU	16.8
1	V	821	LEU	16.8
1	j	816	GLU	16.8
1	A	818	GLN	16.8
1	H	823	GLN	16.8
1	Z	822	LEU	16.7
1	c	828	LYS	16.7

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Mol	Chain	Res	Type	RSRZ
1	X	837	SER	16.7
1	h	830	THR	16.7
1	d	819	VAL	16.7
1	I	828	LYS	16.7
1	P	818	GLN	16.7
1	V	825	LEU	16.7
1	E	824	SER	16.7
1	G	831	LEU	16.7
1	i	821	LEU	16.7
1	B	837	SER	16.7
1	A	830	THR	16.6
1	F	833	THR	16.6
1	c	823	GLN	16.6
1	P	821	LEU	16.6
1	m	821	LEU	16.6
1	I	823	GLN	16.6
1	V	817	MET	16.6
1	k	823	GLN	16.6
1	l	819	VAL	16.6
1	h	821	LEU	16.6
1	j	821	LEU	16.6
1	Z	817	MET	16.6
1	l	837	SER	16.6
1	D	833	THR	16.6
1	S	830	THR	16.6
1	c	833	THR	16.6
1	h	820	LYS	16.6
1	k	844	THR	16.6
1	j	819	VAL	16.5
1	N	828	LYS	16.5
1	Q	821	LEU	16.5
1	R	821	LEU	16.5
1	U	821	LEU	16.5
1	l	844	THR	16.5
1	D	828	LYS	16.5
1	H	822	LEU	16.5
1	E	822	LEU	16.5
1	H	828	LYS	16.5
1	P	841	LEU	16.5
1	j	828	LYS	16.5
1	R	26	SER	16.5
1	Z	833	THR	16.5

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Mol	Chain	Res	Type	RSRZ
1	H	831	LEU	16.5
1	X	824	SER	16.5
1	R	828	LYS	16.5
1	J	822	LEU	16.4
1	h	825	LEU	16.4
1	W	817	MET	16.4
1	H	816	GLU	16.4
1	b	828	LYS	16.4
1	B	838	PRO	16.4
1	M	837	SER	16.4
1	f	818	GLN	16.4
1	A	821	LEU	16.4
1	L	821	LEU	16.4
1	X	827	LEU	16.4
1	k	828	LYS	16.4
1	K	831	LEU	16.4
1	H	841	LEU	16.4
1	R	818	GLN	16.4
1	e	822	LEU	16.4
1	c	835	GLY	16.4
1	O	822	LEU	16.4
1	g	831	LEU	16.4
1	L	823	GLN	16.3
1	D	816	GLU	16.3
1	b	817	MET	16.3
1	H	833	THR	16.3
1	c	827	LEU	16.3
1	P	817	MET	16.3
1	l	833	THR	16.3
1	k	816	GLU	16.3
1	G	836	SER	16.3
1	Q	25	VAL	16.3
1	N	825	LEU	16.3
1	f	831	LEU	16.3
1	A	816	GLU	16.2
1	g	837	SER	16.2
1	k	817	MET	16.2
1	Z	827	LEU	16.2
1	P	837	SER	16.2
1	W	834	ASP	16.2
1	L	816	GLU	16.2
1	U	845	ALA	16.2

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Mol	Chain	Res	Type	RSRZ
1	C	828	LYS	16.2
1	m	828	LYS	16.2
1	X	816	GLU	16.2
1	a	816	GLU	16.2
1	J	841	LEU	16.2
1	k	830	THR	16.2
1	A	822	LEU	16.2
1	E	831	LEU	16.2
1	i	830	THR	16.2
1	f	837	SER	16.2
1	m	837	SER	16.2
1	U	822	LEU	16.2
1	l	831	LEU	16.2
1	Z	831	LEU	16.1
1	W	845	ALA	16.1
1	h	822	LEU	16.1
1	K	821	LEU	16.1
1	C	830	THR	16.1
1	D	841	LEU	16.1
1	m	844	THR	16.1
1	L	817	MET	16.1
1	g	825	LEU	16.1
1	K	816	GLU	16.1
1	R	823	GLN	16.0
1	m	830	THR	16.0
1	I	822	LEU	16.0
1	G	822	LEU	16.0
1	X	822	LEU	16.0
1	e	817	MET	16.0
1	U	825	LEU	16.0
1	j	825	LEU	16.0
1	m	822	LEU	16.0
1	A	823	GLN	16.0
1	A	833	THR	16.0
1	c	831	LEU	15.9
1	e	825	LEU	15.9
1	D	831	LEU	15.9
1	l	822	LEU	15.9
1	j	834	ASP	15.9
1	c	822	LEU	15.9
1	h	833	THR	15.9
1	T	822	LEU	15.9

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Mol	Chain	Res	Type	RSRZ
1	Y	831	LEU	15.9
1	g	821	LEU	15.9
1	P	833	THR	15.9
1	P	835	GLY	15.9
1	a	822	LEU	15.9
1	f	822	LEU	15.9
1	b	831	LEU	15.8
1	O	825	LEU	15.8
1	Y	828	LYS	15.8
1	M	817	MET	15.8
1	N	831	LEU	15.8
1	T	816	GLU	15.8
1	W	835	GLY	15.8
1	W	828	LYS	15.8
1	a	817	MET	15.8
1	f	817	MET	15.8
1	e	816	GLU	15.8
1	l	816	GLU	15.8
1	S	825	LEU	15.8
1	T	821	LEU	15.8
1	l	817	MET	15.8
1	S	822	LEU	15.8
1	c	821	LEU	15.8
1	W	831	LEU	15.7
1	S	816	GLU	15.7
1	i	822	LEU	15.7
1	E	828	LYS	15.7
1	D	823	GLN	15.7
1	j	838	PRO	15.7
1	Y	817	MET	15.7
1	I	825	LEU	15.7
1	h	816	GLU	15.7
1	I	837	SER	15.7
1	d	816	GLU	15.7
1	h	817	MET	15.6
1	C	831	LEU	15.6
1	Z	816	GLU	15.6
1	f	825	LEU	15.6
1	W	841	LEU	15.6
1	b	822	LEU	15.6
1	D	835	GLY	15.6
1	Q	817	MET	15.6

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Mol	Chain	Res	Type	RSRZ
1	k	834	ASP	15.6
1	W	821	LEU	15.6
1	Y	816	GLU	15.6
1	d	817	MET	15.6
1	d	825	LEU	15.5
1	S	817	MET	15.5
1	M	836	SER	15.5
1	I	831	LEU	15.5
1	l	825	LEU	15.5
1	V	816	GLU	15.5
1	a	827	LEU	15.5
1	j	831	LEU	15.5
1	i	817	MET	15.5
1	j	817	MET	15.5
1	S	821	LEU	15.5
1	N	835	GLY	15.4
1	S	834	ASP	15.4
1	A	831	LEU	15.4
1	b	825	LEU	15.4
1	a	823	GLN	15.4
1	W	837	SER	15.4
1	Q	822	LEU	15.4
1	f	821	LEU	15.4
1	F	823	GLN	15.4
1	k	822	LEU	15.4
1	V	822	LEU	15.4
1	B	828	LYS	15.4
1	a	828	LYS	15.4
1	b	835	GLY	15.4
1	F	836	SER	15.3
1	Q	816	GLU	15.3
1	R	834	ASP	15.3
1	P	828	LYS	15.3
1	d	841	LEU	15.3
1	i	820	LYS	15.3
1	E	825	LEU	15.3
1	Y	825	LEU	15.3
1	Y	841	LEU	15.3
1	d	831	LEU	15.3
1	i	816	GLU	15.3
1	J	835	GLY	15.3
1	D	825	LEU	15.2

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Mol	Chain	Res	Type	RSRZ
1	c	824	SER	15.2
1	j	822	LEU	15.2
1	R	825	LEU	15.2
1	X	834	ASP	15.2
1	E	816	GLU	15.2
1	J	825	LEU	15.2
1	m	825	LEU	15.2
1	j	25	VAL	15.2
1	E	841	LEU	15.2
1	e	828	LYS	15.1
1	h	836	SER	15.1
1	H	825	LEU	15.1
1	W	827	LEU	15.1
1	X	831	LEU	15.1
1	C	817	MET	15.1
1	Y	836	SER	15.1
1	U	816	GLU	15.1
1	f	816	GLU	15.0
1	W	833	THR	15.0
1	E	835	GLY	15.0
1	N	816	GLU	15.0
1	K	26	SER	15.0
1	L	825	LEU	15.0
1	a	825	LEU	15.0
1	A	825	LEU	15.0
1	P	825	LEU	15.0
1	C	816	GLU	15.0
1	Q	831	LEU	15.0
1	P	822	LEU	14.9
1	N	836	SER	14.9
1	Q	820	LYS	14.9
1	X	821	LEU	14.9
1	m	838	PRO	14.9
1	a	831	LEU	14.9
1	W	825	LEU	14.9
1	d	822	LEU	14.9
1	k	821	LEU	14.9
1	T	817	MET	14.9
1	g	817	MET	14.9
1	g	822	LEU	14.8
1	l	821	LEU	14.8
1	l	820	LYS	14.8

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Mol	Chain	Res	Type	RSRZ
1	g	835	GLY	14.8
1	k	837	SER	14.8
1	m	831	LEU	14.8
1	O	835	GLY	14.7
1	M	816	GLU	14.7
1	O	821	LEU	14.7
1	g	816	GLU	14.7
1	b	823	GLN	14.7
1	G	825	LEU	14.7
1	T	825	LEU	14.6
1	U	837	SER	14.6
1	M	841	LEU	14.6
1	e	820	LYS	14.6
1	X	833	THR	14.6
1	V	837	SER	14.6
1	c	837	SER	14.5
1	m	817	MET	14.5
1	m	835	GLY	14.5
1	P	831	LEU	14.5
1	T	831	LEU	14.5
1	b	816	GLU	14.5
1	e	831	LEU	14.5
1	R	822	LEU	14.4
1	B	833	THR	14.4
1	O	817	MET	14.4
1	B	825	LEU	14.4
1	R	816	GLU	14.4
1	B	831	LEU	14.3
1	O	816	GLU	14.3
1	S	831	LEU	14.3
1	T	845	ALA	14.3
1	c	825	LEU	14.3
1	M	825	LEU	14.3
1	Z	835	GLY	14.2
1	k	79	GLY	14.1
1	k	825	LEU	14.1
1	k	841	LEU	14.1
1	N	821	LEU	14.1
1	X	825	LEU	14.1
1	G	828	LYS	14.0
1	j	841	LEU	14.0
1	R	831	LEU	13.9

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Mol	Chain	Res	Type	RSRZ
1	U	841	LEU	13.8
1	i	841	LEU	13.8
1	P	816	GLU	13.8
1	B	841	LEU	13.7
1	R	817	MET	13.7
1	S	833	THR	13.6
1	S	26	SER	13.6
1	R	837	SER	13.5
1	T	837	SER	13.5
1	Q	841	LEU	13.5
1	V	841	LEU	13.4
1	l	78	THR	13.4
1	C	841	LEU	13.4
1	A	837	SER	13.4
1	W	816	GLU	13.4
1	Z	825	LEU	13.3
1	E	27	ARG	13.3
1	T	841	LEU	13.3
1	S	837	SER	13.3
1	O	831	LEU	13.2
1	K	836	SER	13.2
1	D	26	SER	13.2
1	V	835	GLY	13.1
1	Q	837	SER	13.1
1	Q	825	LEU	12.9
1	S	841	LEU	12.9
1	U	836	SER	12.9
1	m	833	THR	12.9
1	b	833	THR	12.8
1	X	25	VAL	12.8
1	e	26	SER	12.7
1	k	26	SER	12.6
1	R	841	LEU	12.5
1	l	26	SER	12.4
1	E	79	GLY	12.4
1	C	835	GLY	12.3
1	Y	27	ARG	12.3
1	J	25	VAL	12.3
1	e	25	VAL	12.2
1	l	841	LEU	12.1
1	k	833	THR	12.1
1	S	835	GLY	12.0

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Mol	Chain	Res	Type	RSRZ
1	A	841	LEU	12.0
1	H	836	SER	12.0
1	k	835	GLY	12.0
1	P	27	ARG	11.9
1	B	835	GLY	11.8
1	D	836	SER	11.8
1	A	835	GLY	11.7
1	K	25	VAL	11.7
1	R	835	GLY	11.7
1	P	26	SER	11.6
1	W	26	SER	11.6
1	N	4	GLU	11.6
1	Q	835	GLY	11.5
1	L	836	SER	11.5
1	j	836	SER	11.5
1	J	26	SER	11.4
1	m	841	LEU	11.0
1	f	836	SER	11.0
1	C	836	SER	10.9
1	d	4	GLU	10.6
1	d	836	SER	10.6
1	E	26	SER	10.6
1	T	835	GLY	10.6
1	e	836	SER	10.5
1	M	94	GLN	10.5
1	k	4	GLU	10.5
1	b	836	SER	10.4
1	L	26	SER	10.2
1	I	836	SER	10.2
1	l	835	GLY	10.2
1	g	836	SER	10.0
1	J	836	SER	10.0
1	g	26	SER	9.9
1	P	105	LEU	9.9
1	S	98	PRO	9.8
1	O	836	SER	9.7
1	l	4	GLU	9.6
1	L	42	ARG	9.6
1	c	26	SER	9.6
1	S	42	ARG	9.6
1	c	836	SER	9.5
1	k	836	SER	9.5

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Mol	Chain	Res	Type	RSRZ
1	Z	26	SER	9.5
1	W	836	SER	9.4
1	f	26	SER	9.4
1	K	82	ARG	9.4
1	Z	836	SER	9.4
1	V	25	VAL	9.4
1	i	836	SER	9.3
1	E	81	VAL	9.2
1	O	4	GLU	9.1
1	T	836	SER	9.0
1	G	221	LEU	9.0
1	O	26	SER	9.0
1	E	836	SER	8.9
1	X	79	GLY	8.9
1	M	42	ARG	8.9
1	F	26	SER	8.8
1	D	27	ARG	8.7
1	B	836	SER	8.7
1	K	42	ARG	8.7
1	j	26	SER	8.7
1	M	105	LEU	8.7
1	A	836	SER	8.6
1	c	25	VAL	8.4
1	R	98	PRO	8.3
1	Q	836	SER	8.3
1	e	4	GLU	8.3
1	R	82	ARG	8.3
1	R	25	VAL	8.3
1	I	4	GLU	8.2
1	k	78	THR	8.1
1	P	836	SER	8.1
1	a	26	SER	8.1
1	L	94	GLN	8.1
1	Q	22	ASN	8.1
1	Q	4	GLU	8.1
1	S	836	SER	8.1
1	E	80	GLN	8.1
1	S	97	PHE	8.1
1	V	836	SER	8.0
1	X	836	SER	8.0
1	L	98	PRO	8.0
1	h	4	GLU	8.0

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Mol	Chain	Res	Type	RSRZ
1	L	4	GLU	8.0
1	m	26	SER	7.9
1	d	78	THR	7.9
1	m	836	SER	7.8
1	j	22	ASN	7.8
1	V	26	SER	7.8
1	Q	105	LEU	7.8
1	K	83	LEU	7.8
1	F	94	GLN	7.7
1	L	97	PHE	7.7
1	a	836	SER	7.7
1	X	27	ARG	7.7
1	F	221	LEU	7.7
1	O	42	ARG	7.7
1	S	80	GLN	7.6
1	Q	82	ARG	7.6
1	i	25	VAL	7.6
1	Q	81	VAL	7.5
1	E	78	THR	7.5
1	L	149	GLY	7.5
1	P	79	GLY	7.5
1	h	45	PHE	7.4
1	d	79	GLY	7.4
1	e	22	ASN	7.4
1	M	98	PRO	7.4
1	k	22	ASN	7.4
1	W	22	ASN	7.3
1	k	37	ARG	7.3
1	W	133	ASN	7.3
1	Q	98	PRO	7.3
1	h	105	LEU	7.3
1	R	80	GLN	7.2
1	K	22	ASN	7.2
1	N	261	PRO	7.2
1	C	100	TYR	7.2
1	R	22	ASN	7.2
1	N	42	ARG	7.1
1	D	25	VAL	7.1
1	P	83	LEU	7.1
1	f	25	VAL	7.1
1	k	25	VAL	7.1
1	R	133	ASN	7.1

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Mol	Chain	Res	Type	RSRZ
1	W	138	MET	7.1
1	J	98	PRO	7.0
1	E	221	LEU	7.0
1	k	83	LEU	7.0
1	h	42	ARG	7.0
1	l	79	GLY	7.0
1	m	100	TYR	7.0
1	Y	26	SER	6.9
1	i	42	ARG	6.9
1	R	83	LEU	6.9
1	B	26	SER	6.9
1	S	79	GLY	6.8
1	R	36	ILE	6.8
1	I	221	LEU	6.8
1	e	97	PHE	6.8
1	Q	27	ARG	6.8
1	i	211	GLU	6.8
1	j	105	LEU	6.8
1	Y	41	GLU	6.8
1	R	42	ARG	6.8
1	A	178	ALA	6.7
1	h	26	SER	6.7
1	h	19	LEU	6.7
1	i	105	LEU	6.7
1	l	27	ARG	6.6
1	f	4	GLU	6.6
1	k	55	PRO	6.6
1	U	45	PHE	6.6
1	X	94	GLN	6.6
1	P	42	ARG	6.6
1	X	259	HIS	6.6
1	i	26	SER	6.5
1	k	42	ARG	6.5
1	N	221	LEU	6.5
1	j	4	GLU	6.5
1	b	4	GLU	6.5
1	A	26	SER	6.4
1	h	606	PHE	6.4
1	F	91	ARG	6.4
1	l	42	ARG	6.4
1	e	28	VAL	6.4
1	f	100	TYR	6.4

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Mol	Chain	Res	Type	RSRZ
1	f	55	PRO	6.4
1	d	25	VAL	6.4
1	E	138	MET	6.3
1	m	103	GLU	6.3
1	f	37	ARG	6.3
1	B	100	TYR	6.3
1	d	26	SER	6.3
1	N	809	ASP	6.3
1	O	809	ASP	6.3
1	R	4	GLU	6.3
1	J	28	VAL	6.3
1	O	105	LEU	6.3
1	e	100	TYR	6.3
1	P	25	VAL	6.3
1	H	221	LEU	6.3
1	U	26	SER	6.3
1	i	261	PRO	6.3
1	R	27	ARG	6.3
1	W	80	GLN	6.3
1	R	105	LEU	6.2
1	N	178	ALA	6.2
1	f	28	VAL	6.2
1	S	94	GLN	6.2
1	b	49	ARG	6.2
1	D	221	LEU	6.2
1	N	44	LEU	6.2
1	M	18	VAL	6.2
1	h	33	LYS	6.2
1	R	836	SER	6.2
1	K	4	GLU	6.2
1	O	261	PRO	6.1
1	Z	261	PRO	6.1
1	M	26	SER	6.1
1	J	83	LEU	6.1
1	L	261	PRO	6.1
1	N	105	LEU	6.1
1	S	4	GLU	6.1
1	k	98	PRO	6.1
1	K	27	ARG	6.1
1	g	27	ARG	6.0
1	i	360	ARG	6.0
1	W	221	LEU	6.0

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Mol	Chain	Res	Type	RSRZ
1	W	25	VAL	6.0
1	V	42	ARG	6.0
1	L	35	TYR	6.0
1	Z	28	VAL	6.0
1	e	42	ARG	5.9
1	L	45	PHE	5.9
1	j	35	TYR	5.9
1	e	35	TYR	5.9
1	F	105	LEU	5.9
1	B	27	ARG	5.9
1	k	27	ARG	5.9
1	F	90	ILE	5.9
1	O	278	PRO	5.9
1	P	211	GLU	5.9
1	M	19	LEU	5.8
1	f	98	PRO	5.8
1	Q	80	GLN	5.8
1	d	261	PRO	5.8
1	A	4	GLU	5.8
1	k	105	LEU	5.8
1	L	80	GLN	5.8
1	K	104	VAL	5.8
1	S	41	GLU	5.8
1	U	261	PRO	5.8
1	h	261	PRO	5.8
1	C	27	ARG	5.8
1	E	171	ASN	5.8
1	E	259	HIS	5.8
1	X	41	GLU	5.7
1	k	100	TYR	5.7
1	j	42	ARG	5.7
1	K	97	PHE	5.7
1	k	261	PRO	5.7
1	Q	42	ARG	5.7
1	P	80	GLN	5.7
1	X	93	ALA	5.7
1	m	126	LEU	5.7
1	Y	259	HIS	5.7
1	M	78	THR	5.7
1	R	97	PHE	5.7
1	l	100	TYR	5.7
1	g	25	VAL	5.7

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Mol	Chain	Res	Type	RSRZ
1	m	217	ASP	5.6
1	m	19	LEU	5.6
1	F	42	ARG	5.6
1	O	149	GLY	5.6
1	c	81	VAL	5.6
1	L	83	LEU	5.6
1	M	80	GLN	5.6
1	J	27	ARG	5.6
1	e	82	ARG	5.6
1	E	346	GLU	5.6
1	i	221	LEU	5.6
1	O	27	ARG	5.6
1	K	261	PRO	5.5
1	N	101	PRO	5.5
1	Q	185	ARG	5.5
1	f	42	ARG	5.5
1	Q	148	PRO	5.5
1	K	94	GLN	5.5
1	M	4	GLU	5.5
1	i	27	ARG	5.5
1	D	259	HIS	5.5
1	V	261	PRO	5.5
1	e	83	LEU	5.5
1	B	110	THR	5.5
1	K	78	THR	5.5
1	l	836	SER	5.5
1	U	42	ARG	5.4
1	Y	28	VAL	5.4
1	a	105	LEU	5.4
1	Z	36	ILE	5.4
1	M	287	PRO	5.4
1	e	79	GLY	5.4
1	L	82	ARG	5.4
1	i	338	GLN	5.4
1	I	103	GLU	5.4
1	e	36	ILE	5.4
1	Q	261	PRO	5.4
1	a	54	PRO	5.4
1	g	37	ARG	5.4
1	f	35	TYR	5.4
1	i	204	TYR	5.4
1	c	126	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
1	h	44	LEU	5.4
1	d	42	ARG	5.4
1	f	261	PRO	5.4
1	J	105	LEU	5.3
1	S	211	GLU	5.3
1	b	20	ASP	5.3
1	X	268	LEU	5.3
1	F	34	THR	5.3
1	G	27	ARG	5.3
1	f	41	GLU	5.3
1	K	149	GLY	5.3
1	L	221	LEU	5.3
1	P	133	ASN	5.3
1	W	93	ALA	5.3
1	Y	42	ARG	5.3
1	g	42	ARG	5.3
1	j	27	ARG	5.3
1	k	82	ARG	5.3
1	l	83	LEU	5.3
1	F	93	ALA	5.3
1	A	126	LEU	5.3
1	B	126	LEU	5.3
1	P	4	GLU	5.3
1	Q	211	GLU	5.3
1	W	41	GLU	5.3
1	F	35	TYR	5.3
1	e	27	ARG	5.3
1	K	346	GLU	5.2
1	M	261	PRO	5.2
1	T	148	PRO	5.2
1	M	211	GLU	5.2
1	R	221	LEU	5.2
1	W	94	GLN	5.2
1	N	18	VAL	5.2
1	i	278	PRO	5.2
1	J	82	ARG	5.2
1	X	42	ARG	5.2
1	d	37	ARG	5.2
1	A	105	LEU	5.2
1	Q	36	ILE	5.2
1	h	278	PRO	5.2
1	Y	372	GLU	5.2

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Mol	Chain	Res	Type	RSRZ
1	F	92	LEU	5.2
1	L	81	VAL	5.2
1	B	42	ARG	5.2
1	U	148	PRO	5.2
1	c	41	GLU	5.2
1	D	178	ALA	5.1
1	K	81	VAL	5.1
1	j	18	VAL	5.1
1	C	101	PRO	5.1
1	O	221	LEU	5.1
1	c	116	LEU	5.1
1	i	45	PHE	5.1
1	l	28	VAL	5.1
1	d	82	ARG	5.1
1	C	42	ARG	5.1
1	f	27	ARG	5.1
1	N	278	PRO	5.1
1	c	259	HIS	5.1
1	F	185	ARG	5.1
1	V	98	PRO	5.1
1	K	80	GLN	5.1
1	O	18	VAL	5.1
1	O	3	THR	5.1
1	l	330	GLN	5.1
1	j	100	TYR	5.1
1	h	75	PHE	5.1
1	K	28	VAL	5.1
1	K	98	PRO	5.0
1	J	221	LEU	5.0
1	U	4	GLU	5.0
1	g	211	GLU	5.0
1	C	259	HIS	5.0
1	R	131	ASP	5.0
1	L	105	LEU	5.0
1	L	133	ASN	5.0
1	U	98	PRO	5.0
1	E	214	ASP	5.0
1	K	221	LEU	5.0
1	E	109	ILE	5.0
1	d	35	TYR	5.0
1	Y	171	ASN	5.0
1	l	36	ILE	5.0

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Mol	Chain	Res	Type	RSRZ
1	N	86	ALA	5.0
1	W	81	VAL	5.0
1	e	116	LEU	5.0
1	k	221	LEU	5.0
1	B	259	HIS	5.0
1	i	33	LYS	5.0
1	E	41	GLU	5.0
1	A	61	VAL	5.0
1	c	105	LEU	5.0
1	d	22	ASN	4.9
1	H	4	GLU	4.9
1	R	103	GLU	4.9
1	g	4	GLU	4.9
1	Y	36	ILE	4.9
1	d	17	HIS	4.9
1	Q	131	ASP	4.9
1	m	221	LEU	4.9
1	k	185	ARG	4.9
1	m	261	PRO	4.9
1	W	105	LEU	4.9
1	b	221	LEU	4.9
1	Q	61	VAL	4.9
1	k	109	ILE	4.9
1	G	149	GLY	4.9
1	U	259	HIS	4.9
1	R	28	VAL	4.9
1	H	261	PRO	4.9
1	I	278	PRO	4.9
1	f	17	HIS	4.9
1	H	81	VAL	4.9
1	I	25	VAL	4.9
1	P	61	VAL	4.9
1	g	81	VAL	4.9
1	K	44	LEU	4.8
1	f	126	LEU	4.8
1	G	12	PRO	4.8
1	T	804	PRO	4.8
1	X	338	GLN	4.8
1	N	85	HIS	4.8
1	A	116	LEU	4.8
1	C	809	ASP	4.8
1	K	691	GLN	4.8

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Mol	Chain	Res	Type	RSRZ
1	L	104	VAL	4.8
1	L	17	HIS	4.8
1	N	17	HIS	4.8
1	K	347	GLU	4.8
1	V	204	TYR	4.8
1	L	36	ILE	4.8
1	b	19	LEU	4.8
1	c	221	LEU	4.8
1	e	98	PRO	4.8
1	J	81	VAL	4.8
1	k	81	VAL	4.8
1	H	42	ARG	4.8
1	Q	188	LYS	4.8
1	K	116	LEU	4.8
1	e	78	THR	4.8
1	e	261	PRO	4.8
1	h	27	ARG	4.8
1	H	259	HIS	4.8
1	K	57	HIS	4.8
1	N	211	GLU	4.8
1	U	266	GLU	4.8
1	W	15	TYR	4.8
1	j	50	MET	4.8
1	C	221	LEU	4.8
1	P	98	PRO	4.8
1	Q	18	VAL	4.8
1	T	261	PRO	4.8
1	a	28	VAL	4.8
1	d	140	GLY	4.8
1	h	338	GLN	4.8
1	T	42	ARG	4.8
1	U	346	GLU	4.8
1	d	41	GLU	4.8
1	L	15	TYR	4.7
1	l	116	LEU	4.7
1	G	85	HIS	4.7
1	k	97	PHE	4.7
1	l	45	PHE	4.7
1	I	79	GLY	4.7
1	L	147	GLY	4.7
1	I	116	LEU	4.7
1	e	221	LEU	4.7

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Mol	Chain	Res	Type	RSRZ
1	V	41	GLU	4.7
1	M	86	ALA	4.7
1	b	110	THR	4.7
1	c	261	PRO	4.7
1	h	143	TRP	4.7
1	A	45	PHE	4.7
1	L	347	GLU	4.7
1	Q	41	GLU	4.7
1	B	178	ALA	4.7
1	S	149	GLY	4.7
1	O	45	PHE	4.7
1	G	259	HIS	4.7
1	c	99	LEU	4.7
1	h	329	GLN	4.7
1	i	19	LEU	4.7
1	W	149	GLY	4.7
1	S	27	ARG	4.7
1	Z	27	ARG	4.7
1	H	116	LEU	4.7
1	N	116	LEU	4.7
1	U	44	LEU	4.7
1	W	259	HIS	4.7
1	W	148	PRO	4.6
1	L	27	ARG	4.6
1	Y	116	LEU	4.6
1	g	221	LEU	4.6
1	B	14	HIS	4.6
1	b	259	HIS	4.6
1	F	261	PRO	4.6
1	h	585	SER	4.6
1	F	126	LEU	4.6
1	L	44	LEU	4.6
1	O	116	LEU	4.6
1	i	59	CYS	4.6
1	X	61	VAL	4.6
1	G	41	GLU	4.6
1	F	101	PRO	4.6
1	Y	795	PHE	4.6
1	H	809	ASP	4.6
1	X	24	ASN	4.6
1	J	110	THR	4.6
1	a	278	PRO	4.6

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Mol	Chain	Res	Type	RSRZ
1	S	116	LEU	4.6
1	E	25	VAL	4.6
1	T	214	ASP	4.6
1	W	86	ALA	4.6
1	N	98	PRO	4.6
1	F	259	HIS	4.6
1	m	116	LEU	4.6
1	A	42	ARG	4.6
1	e	37	ARG	4.6
1	B	44	LEU	4.6
1	P	116	LEU	4.6
1	P	221	LEU	4.6
1	J	261	PRO	4.6
1	M	231	ALA	4.5
1	P	44	LEU	4.5
1	E	22	ASN	4.5
1	W	95	ASP	4.5
1	f	105	LEU	4.5
1	l	221	LEU	4.5
1	g	338	GLN	4.5
1	j	78	THR	4.5
1	A	27	ARG	4.5
1	L	20	ASP	4.5
1	Z	67	ARG	4.5
1	g	261	PRO	4.5
1	k	116	LEU	4.5
1	b	26	SER	4.5
1	K	41	GLU	4.5
1	M	277	GLY	4.5
1	X	199	ARG	4.5
1	M	133	ASN	4.5
1	Q	55	PRO	4.5
1	R	15	TYR	4.5
1	f	15	TYR	4.5
1	M	221	LEU	4.5
1	S	67	ARG	4.5
1	Y	338	GLN	4.5
1	h	330	GLN	4.5
1	T	110	THR	4.5
1	U	41	GLU	4.5
1	e	804	PRO	4.5
1	G	126	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
1	I	126	LEU	4.5
1	h	221	LEU	4.5
1	m	10	ILE	4.5
1	W	798	MET	4.4
1	L	148	PRO	4.4
1	b	126	LEU	4.4
1	b	15	TYR	4.4
1	I	81	VAL	4.4
1	Q	28	VAL	4.4
1	M	149	GLY	4.4
1	R	804	PRO	4.4
1	X	98	PRO	4.4
1	Y	98	PRO	4.4
1	Z	153	PRO	4.4
1	a	261	PRO	4.4
1	m	54	PRO	4.4
1	O	59	CYS	4.4
1	H	18	VAL	4.4
1	N	81	VAL	4.4
1	V	67	ARG	4.4
1	V	221	LEU	4.4
1	m	259	HIS	4.4
1	e	278	PRO	4.4
1	l	261	PRO	4.4
1	c	211	GLU	4.4
1	X	185	ARG	4.4
1	B	105	LEU	4.4
1	S	85	HIS	4.4
1	M	189	GLY	4.4
1	W	79	GLY	4.4
1	D	98	PRO	4.4
1	S	804	PRO	4.4
1	V	346	GLU	4.4
1	P	8	ILE	4.4
1	l	25	VAL	4.4
1	S	185	ARG	4.4
1	U	221	LEU	4.4
1	V	116	LEU	4.4
1	i	4	GLU	4.4
1	B	116	LEU	4.4
1	d	49	ARG	4.4
1	G	26	SER	4.4

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Mol	Chain	Res	Type	RSRZ
1	M	278	PRO	4.4
1	h	109	ILE	4.4
1	J	100	TYR	4.3
1	N	477	ARG	4.3
1	S	37	ARG	4.3
1	d	221	LEU	4.3
1	E	178	ALA	4.3
1	M	93	ALA	4.3
1	F	149	GLY	4.3
1	l	259	HIS	4.3
1	C	98	PRO	4.3
1	c	278	PRO	4.3
1	f	96	PRO	4.3
1	U	146	GLU	4.3
1	m	4	GLU	4.3
1	a	45	PHE	4.3
1	Q	109	ILE	4.3
1	b	261	PRO	4.3
1	H	65	VAL	4.3
1	e	61	VAL	4.3
1	Q	97	PHE	4.3
1	g	795	PHE	4.3
1	L	126	LEU	4.3
1	X	67	ARG	4.3
1	L	96	PRO	4.3
1	W	28	VAL	4.3
1	a	4	GLU	4.3
1	a	178	ALA	4.3
1	I	80	GLN	4.3
1	Q	83	LEU	4.3
1	W	126	LEU	4.3
1	Y	221	LEU	4.3
1	c	18	VAL	4.3
1	M	95	ASP	4.3
1	A	41	GLU	4.3
1	S	133	ASN	4.3
1	h	407	MET	4.3
1	A	261	PRO	4.3
1	G	148	PRO	4.3
1	I	61	VAL	4.3
1	j	261	PRO	4.3
1	G	45	PHE	4.3

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Mol	Chain	Res	Type	RSRZ
1	J	211	GLU	4.3
1	O	178	ALA	4.3
1	U	178	ALA	4.3
1	c	266	GLU	4.3
1	Z	221	LEU	4.3
1	l	99	LEU	4.3
1	P	318	ARG	4.2
1	b	42	ARG	4.2
1	R	78	THR	4.2
1	S	81	VAL	4.2
1	a	101	PRO	4.2
1	b	18	VAL	4.2
1	c	98	PRO	4.2
1	d	423	VAL	4.2
1	b	795	PHE	4.2
1	H	105	LEU	4.2
1	J	156	GLU	4.2
1	M	259	HIS	4.2
1	P	210	GLU	4.2
1	C	22	ASN	4.2
1	R	94	GLN	4.2
1	N	3	THR	4.2
1	P	78	THR	4.2
1	X	804	PRO	4.2
1	V	86	ALA	4.2
1	V	178	ALA	4.2
1	T	27	ARG	4.2
1	X	171	ASN	4.2
1	J	45	PHE	4.2
1	e	105	LEU	4.2
1	G	36	ILE	4.2
1	R	100	TYR	4.2
1	j	20	ASP	4.2
1	A	127	LEU	4.2
1	M	150	THR	4.2
1	d	45	PHE	4.2
1	g	65	VAL	4.2
1	V	798	MET	4.2
1	C	178	ALA	4.2
1	W	91	ARG	4.2
1	a	338	GLN	4.2
1	S	105	LEU	4.2

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Mol	Chain	Res	Type	RSRZ
1	T	126	LEU	4.2
1	L	25	VAL	4.2
1	U	423	VAL	4.2
1	A	815	PRO	4.2
1	B	261	PRO	4.2
1	M	148	PRO	4.2
1	b	55	PRO	4.2
1	C	338	GLN	4.2
1	Q	347	GLU	4.2
1	T	41	GLU	4.2
1	M	44	LEU	4.2
1	T	19	LEU	4.2
1	f	45	PHE	4.2
1	D	110	THR	4.1
1	J	79	GLY	4.1
1	O	98	PRO	4.1
1	j	278	PRO	4.1
1	U	86	ALA	4.1
1	Y	37	ARG	4.1
1	Y	67	ARG	4.1
1	S	221	LEU	4.1
1	X	197	LEU	4.1
1	B	4	GLU	4.1
1	I	266	GLU	4.1
1	V	791	GLU	4.1
1	b	41	GLU	4.1
1	G	7	ILE	4.1
1	l	385	ASN	4.1
1	A	81	VAL	4.1
1	j	79	GLY	4.1
1	O	96	PRO	4.1
1	b	459	SER	4.1
1	h	12	PRO	4.1
1	c	19	LEU	4.1
1	d	105	LEU	4.1
1	C	372	GLU	4.1
1	J	4	GLU	4.1
1	L	58	TYR	4.1
1	O	211	GLU	4.1
1	X	795	PHE	4.1
1	Z	338	GLN	4.1
1	P	58	TYR	4.1

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Mol	Chain	Res	Type	RSRZ
1	a	266	GLU	4.1
1	d	109	ILE	4.1
1	l	146	GLU	4.1
1	O	25	VAL	4.1
1	j	804	PRO	4.1
1	X	105	LEU	4.1
1	d	143	TRP	4.1
1	N	45	PHE	4.1
1	h	58	TYR	4.1
1	G	159	VAL	4.1
1	K	61	VAL	4.1
1	h	18	VAL	4.1
1	O	17	HIS	4.1
1	K	105	LEU	4.1
1	K	131	ASP	4.1
1	B	45	PHE	4.1
1	O	8	ILE	4.1
1	T	45	PHE	4.1
1	Y	109	ILE	4.1
1	M	100	TYR	4.1
1	c	100	TYR	4.1
1	S	25	VAL	4.1
1	U	25	VAL	4.1
1	f	18	VAL	4.1
1	c	127	LEU	4.1
1	H	148	PRO	4.1
1	b	10	ILE	4.1
1	J	161	GLU	4.1
1	O	204	TYR	4.1
1	d	346	GLU	4.1
1	k	41	GLU	4.1
1	b	116	LEU	4.1
1	F	27	ARG	4.1
1	Q	67	ARG	4.1
1	N	55	PRO	4.1
1	Q	86	ALA	4.1
1	O	109	ILE	4.1
1	f	16	ILE	4.1
1	V	691	GLN	4.0
1	G	211	GLU	4.0
1	U	99	LEU	4.0
1	W	116	LEU	4.0

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Mol	Chain	Res	Type	RSRZ
1	h	81	VAL	4.0
1	A	101	PRO	4.0
1	Q	94	GLN	4.0
1	d	329	GLN	4.0
1	N	126	LEU	4.0
1	X	116	LEU	4.0
1	g	44	LEU	4.0
1	I	18	VAL	4.0
1	R	58	TYR	4.0
1	W	548	GLU	4.0
1	X	4	GLU	4.0
1	j	37	ARG	4.0
1	d	189	GLY	4.0
1	O	6	ALA	4.0
1	S	96	PRO	4.0
1	i	259	HIS	4.0
1	N	94	GLN	4.0
1	T	691	GLN	4.0
1	f	221	LEU	4.0
1	F	95	ASP	4.0
1	X	214	ASP	4.0
1	C	109	ILE	4.0
1	N	26	SER	4.0
1	N	189	GLY	4.0
1	I	75	PHE	4.0
1	C	153	PRO	4.0
1	b	278	PRO	4.0
1	N	83	LEU	4.0
1	U	19	LEU	4.0
1	Z	116	LEU	4.0
1	H	338	GLN	4.0
1	i	28	VAL	4.0
1	Y	695	ASP	4.0
1	a	211	GLU	4.0
1	e	109	ILE	4.0
1	P	126	LEU	4.0
1	R	232	LEU	4.0
1	S	261	PRO	4.0
1	T	116	LEU	4.0
1	N	88	GLN	4.0
1	j	329	GLN	4.0
1	l	691	GLN	4.0

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Mol	Chain	Res	Type	RSRZ
1	E	67	ARG	4.0
1	l	37	ARG	4.0
1	O	48	VAL	4.0
1	f	36	ILE	4.0
1	i	8	ILE	4.0
1	J	151	TYR	4.0
1	g	45	PHE	4.0
1	a	143	TRP	4.0
1	g	528	THR	4.0
1	g	605	GLY	4.0
1	Q	116	LEU	4.0
1	h	86	ALA	4.0
1	j	44	LEU	4.0
1	F	98	PRO	4.0
1	U	101	PRO	4.0
1	N	49	ARG	4.0
1	U	338	GLN	4.0
1	g	185	ARG	4.0
1	C	61	VAL	3.9
1	b	61	VAL	3.9
1	N	19	LEU	3.9
1	S	204	TYR	3.9
1	W	268	LEU	3.9
1	d	204	TYR	3.9
1	g	116	LEU	3.9
1	g	204	TYR	3.9
1	M	62	ALA	3.9
1	W	804	PRO	3.9
1	E	507	ARG	3.9
1	D	109	ILE	3.9
1	F	154	GLN	3.9
1	G	8	ILE	3.9
1	S	36	ILE	3.9
1	S	164	GLN	3.9
1	g	105	LEU	3.9
1	i	116	LEU	3.9
1	j	221	LEU	3.9
1	B	13	TYR	3.9
1	G	4	GLU	3.9
1	G	346	GLU	3.9
1	O	58	TYR	3.9
1	X	78	THR	3.9

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Mol	Chain	Res	Type	RSRZ
1	T	93	ALA	3.9
1	b	178	ALA	3.9
1	A	153	PRO	3.9
1	V	148	PRO	3.9
1	m	815	PRO	3.9
1	c	22	ASN	3.9
1	O	33	LYS	3.9
1	K	45	PHE	3.9
1	f	19	LEU	3.9
1	E	36	ILE	3.9
1	M	109	ILE	3.9
1	N	808	ARG	3.9
1	b	98	PRO	3.9
1	W	109	ILE	3.9
1	R	691	GLN	3.9
1	B	61	VAL	3.9
1	d	126	LEU	3.9
1	T	259	HIS	3.9
1	W	17	HIS	3.9
1	I	211	GLU	3.9
1	J	41	GLU	3.9
1	Q	204	TYR	3.9
1	a	41	GLU	3.9
1	k	86	ALA	3.9
1	D	300	ARG	3.9
1	F	67	ARG	3.9
1	N	37	ARG	3.9
1	M	101	PRO	3.9
1	a	98	PRO	3.9
1	j	109	ILE	3.9
1	Q	95	ASP	3.9
1	X	95	ASP	3.9
1	E	126	LEU	3.9
1	H	44	LEU	3.9
1	M	126	LEU	3.9
1	f	338	GLN	3.9
1	h	1	MET	3.9
1	A	28	VAL	3.9
1	M	81	VAL	3.9
1	N	48	VAL	3.9
1	a	259	HIS	3.9
1	H	134	GLY	3.9

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Mol	Chain	Res	Type	RSRZ
1	V	103	GLU	3.9
1	J	185	ARG	3.9
1	J	190	ARG	3.9
1	N	109	ILE	3.9
1	W	185	ARG	3.9
1	O	44	LEU	3.9
1	O	101	PRO	3.9
1	P	138	MET	3.9
1	T	221	LEU	3.9
1	B	28	VAL	3.9
1	E	28	VAL	3.9
1	L	61	VAL	3.9
1	Z	691	GLN	3.9
1	f	423	VAL	3.9
1	R	149	GLY	3.9
1	l	292	GLY	3.9
1	d	86	ALA	3.9
1	C	41	GLU	3.8
1	N	35	TYR	3.8
1	h	204	TYR	3.8
1	j	49	ARG	3.8
1	k	36	ILE	3.8
1	i	144	LEU	3.8
1	C	261	PRO	3.8
1	P	278	PRO	3.8
1	Z	98	PRO	3.8
1	k	153	PRO	3.8
1	N	812	VAL	3.8
1	X	65	VAL	3.8
1	S	214	ASP	3.8
1	D	67	ARG	3.8
1	I	78	THR	3.8
1	Z	149	GLY	3.8
1	f	109	ILE	3.8
1	i	109	ILE	3.8
1	e	17	HIS	3.8
1	l	41	GLU	3.8
1	B	101	PRO	3.8
1	G	261	PRO	3.8
1	Y	261	PRO	3.8
1	Z	154	GLN	3.8
1	l	329	GLN	3.8

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Mol	Chain	Res	Type	RSRZ
1	P	87	ASP	3.8
1	I	19	LEU	3.8
1	h	178	ALA	3.8
1	l	67	ARG	3.8
1	S	57	HIS	3.8
1	W	266	GLU	3.8
1	D	815	PRO	3.8
1	F	148	PRO	3.8
1	b	117	PRO	3.8
1	A	104	VAL	3.8
1	b	170	GLN	3.8
1	h	65	VAL	3.8
1	O	22	ASN	3.8
1	a	22	ASN	3.8
1	m	108	ASP	3.8
1	L	79	GLY	3.8
1	P	45	PHE	3.8
1	d	97	PHE	3.8
1	F	85	HIS	3.8
1	Q	85	HIS	3.8
1	S	15	TYR	3.8
1	f	204	TYR	3.8
1	h	148	PRO	3.8
1	f	81	VAL	3.8
1	k	28	VAL	3.8
1	O	585	SER	3.8
1	K	36	ILE	3.8
1	L	143	TRP	3.8
1	M	99	LEU	3.8
1	a	116	LEU	3.8
1	G	68	ASP	3.8
1	V	45	PHE	3.8
1	Z	178	ALA	3.8
1	f	79	GLY	3.8
1	K	211	GLU	3.8
1	N	204	TYR	3.8
1	O	14	HIS	3.8
1	O	35	TYR	3.8
1	Q	146	GLU	3.8
1	Z	259	HIS	3.8
1	b	204	TYR	3.8
1	j	259	HIS	3.8

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Mol	Chain	Res	Type	RSRZ
1	J	111	PRO	3.8
1	A	170	GLN	3.8
1	U	18	VAL	3.8
1	j	65	VAL	3.8
1	H	144	LEU	3.8
1	R	44	LEU	3.8
1	Y	105	LEU	3.8
1	H	685	ARG	3.8
1	V	795	PHE	3.8
1	K	178	ALA	3.8
1	F	100	TYR	3.8
1	M	161	GLU	3.8
1	d	15	TYR	3.8
1	B	64	PRO	3.8
1	M	111	PRO	3.8
1	R	259	HIS	3.8
1	h	55	PRO	3.8
1	m	101	PRO	3.8
1	K	109	ILE	3.7
1	l	105	LEU	3.7
1	H	202	GLY	3.7
1	Z	293	LYS	3.7
1	K	100	TYR	3.7
1	Y	15	TYR	3.7
1	c	28	VAL	3.7
1	d	18	VAL	3.7
1	h	85	HIS	3.7
1	U	143	TRP	3.7
1	b	143	TRP	3.7
1	U	126	LEU	3.7
1	A	689	GLU	3.7
1	E	4	GLU	3.7
1	G	204	TYR	3.7
1	J	101	PRO	3.7
1	K	278	PRO	3.7
1	M	96	PRO	3.7
1	P	130	GLU	3.7
1	S	146	GLU	3.7
1	e	423	VAL	3.7
1	f	804	PRO	3.7
1	R	185	ARG	3.7
1	U	459	SER	3.7

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Mol	Chain	Res	Type	RSRZ
1	V	536	ARG	3.7
1	X	149	GLY	3.7
1	g	166	THR	3.7
1	R	18	VAL	3.7
1	i	61	VAL	3.7
1	P	96	PRO	3.7
1	P	131	ASP	3.7
1	Y	4	GLU	3.7
1	a	100	TYR	3.7
1	h	98	PRO	3.7
1	h	101	PRO	3.7
1	V	75	PHE	3.7
1	j	795	PHE	3.7
1	M	116	LEU	3.7
1	Q	268	LEU	3.7
1	C	36	ILE	3.7
1	W	143	TRP	3.7
1	U	65	VAL	3.7
1	Z	25	VAL	3.7
1	B	67	ARG	3.7
1	E	199	ARG	3.7
1	H	305	GLU	3.7
1	I	148	PRO	3.7
1	T	199	ARG	3.7
1	W	42	ARG	3.7
1	m	27	ARG	3.7
1	e	41	GLU	3.7
1	Z	810	LEU	3.7
1	h	74	LEU	3.7
1	j	116	LEU	3.7
1	T	79	GLY	3.7
1	m	143	TRP	3.7
1	G	61	VAL	3.7
1	h	28	VAL	3.7
1	l	81	VAL	3.7
1	H	101	PRO	3.7
1	I	815	PRO	3.7
1	P	64	PRO	3.7
1	P	691	GLN	3.7
1	Y	365	TYR	3.7
1	h	607	GLU	3.7
1	i	54	PRO	3.7

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Mol	Chain	Res	Type	RSRZ
1	k	94	GLN	3.7
1	i	756	GLU	3.7
1	l	98	PRO	3.7
1	M	20	ASP	3.7
1	D	246	GLY	3.6
1	K	140	GLY	3.6
1	D	423	VAL	3.6
1	f	67	ARG	3.6
1	S	148	PRO	3.6
1	K	99	LEU	3.6
1	S	156	GLU	3.6
1	T	161	GLU	3.6
1	W	151	TYR	3.6
1	F	36	ILE	3.6
1	O	16	ILE	3.6
1	L	125	ALA	3.6
1	L	150	THR	3.6
1	D	61	VAL	3.6
1	W	65	VAL	3.6
1	b	65	VAL	3.6
1	m	25	VAL	3.6
1	H	26	SER	3.6
1	D	268	LEU	3.6
1	N	96	PRO	3.6
1	T	112	LEU	3.6
1	U	691	GLN	3.6
1	c	804	PRO	3.6
1	J	204	TYR	3.6
1	K	204	TYR	3.6
1	b	266	GLU	3.6
1	h	146	GLU	3.6
1	G	178	ALA	3.6
1	g	86	ALA	3.6
1	g	178	ALA	3.6
1	K	190	ARG	3.6
1	d	52	THR	3.6
1	h	600	ARG	3.6
1	m	63	ASN	3.6
1	B	81	VAL	3.6
1	O	423	VAL	3.6
1	T	81	VAL	3.6
1	h	643	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	221	LEU	3.6
1	E	327	SER	3.6
1	T	105	LEU	3.6
1	h	83	LEU	3.6
1	j	126	LEU	3.6
1	Y	691	GLN	3.6
1	X	815	PRO	3.6
1	i	98	PRO	3.6
1	F	109	ILE	3.6
1	Y	346	GLU	3.6
1	G	6	ALA	3.6
1	Y	86	ALA	3.6
1	I	67	ARG	3.6
1	M	27	ARG	3.6
1	P	149	GLY	3.6
1	T	605	GLY	3.6
1	Y	79	GLY	3.6
1	h	605	GLY	3.6
1	i	110	THR	3.6
1	L	28	VAL	3.6
1	f	22	ASN	3.6
1	g	22	ASN	3.6
1	X	691	GLN	3.6
1	R	815	PRO	3.6
1	d	98	PRO	3.6
1	V	4	GLU	3.6
1	h	93	ALA	3.6
1	O	808	ARG	3.6
1	c	67	ARG	3.6
1	K	126	LEU	3.6
1	M	127	LEU	3.6
1	m	110	THR	3.6
1	D	36	ILE	3.6
1	G	113	GLN	3.6
1	k	8	ILE	3.6
1	h	54	PRO	3.6
1	m	55	PRO	3.6
1	I	204	TYR	3.6
1	A	33	LYS	3.6
1	F	41	GLU	3.6
1	M	151	TYR	3.6
1	h	798	MET	3.6

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Mol	Chain	Res	Type	RSRZ
1	h	185	ARG	3.6
1	i	178	ALA	3.6
1	U	105	LEU	3.6
1	Y	110	THR	3.6
1	h	79	GLY	3.6
1	P	28	VAL	3.6
1	d	81	VAL	3.6
1	e	20	ASP	3.6
1	E	94	GLN	3.5
1	W	338	GLN	3.5
1	T	55	PRO	3.5
1	h	96	PRO	3.5
1	D	161	GLU	3.5
1	E	100	TYR	3.5
1	Q	35	TYR	3.5
1	Q	221	LEU	3.5
1	P	97	PHE	3.5
1	S	93	ALA	3.5
1	V	105	LEU	3.5
1	W	83	LEU	3.5
1	a	44	LEU	3.5
1	g	83	LEU	3.5
1	F	28	VAL	3.5
1	h	528	THR	3.5
1	C	8	ILE	3.5
1	M	85	HIS	3.5
1	R	57	HIS	3.5
1	V	22	ASN	3.5
1	V	259	HIS	3.5
1	Q	691	GLN	3.5
1	T	815	PRO	3.5
1	b	798	MET	3.5
1	l	804	PRO	3.5
1	E	42	ARG	3.5
1	H	204	TYR	3.5
1	G	125	ALA	3.5
1	H	62	ALA	3.5
1	T	75	PHE	3.5
1	W	760	GLU	3.5
1	f	347	GLU	3.5
1	g	89	GLU	3.5
1	j	86	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
1	H	776	GLN	3.5
1	C	815	PRO	3.5
1	Q	96	PRO	3.5
1	T	268	LEU	3.5
1	W	261	PRO	3.5
1	k	44	LEU	3.5
1	Q	190	ARG	3.5
1	c	507	ARG	3.5
1	W	204	TYR	3.5
1	k	35	TYR	3.5
1	h	16	ILE	3.5
1	N	528	THR	3.5
1	C	44	LEU	3.5
1	U	85	HIS	3.5
1	g	385	ASN	3.5
1	K	67	ARG	3.5
1	M	318	ARG	3.5
1	R	55	PRO	3.5
1	I	100	TYR	3.5
1	U	204	TYR	3.5
1	W	89	GLU	3.5
1	c	346	GLU	3.5
1	J	77	ILE	3.5
1	S	109	ILE	3.5
1	D	28	VAL	3.5
1	Z	812	VAL	3.5
1	j	528	THR	3.5
1	A	83	LEU	3.5
1	B	221	LEU	3.5
1	J	691	GLN	3.5
1	L	185	ARG	3.5
1	N	32	PRO	3.5
1	Q	45	PHE	3.5
1	a	815	PRO	3.5
1	d	804	PRO	3.5
1	h	76	ASP	3.5
1	A	15	TYR	3.5
1	T	151	TYR	3.5
1	a	204	TYR	3.5
1	e	86	ALA	3.5
1	H	211	GLU	3.5
1	L	146	GLU	3.5

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Mol	Chain	Res	Type	RSRZ
1	h	48	VAL	3.5
1	k	65	VAL	3.5
1	k	143	TRP	3.5
1	e	34	THR	3.5
1	L	116	LEU	3.5
1	g	1	MET	3.5
1	F	113	GLN	3.5
1	Q	75	PHE	3.5
1	e	536	ARG	3.5
1	O	57	HIS	3.5
1	T	96	PRO	3.5
1	g	59	CYS	3.5
1	j	101	PRO	3.5
1	A	163	ILE	3.4
1	L	214	ASP	3.4
1	R	95	ASP	3.4
1	i	58	TYR	3.4
1	U	81	VAL	3.4
1	C	105	LEU	3.4
1	R	138	MET	3.4
1	d	83	LEU	3.4
1	e	143	TRP	3.4
1	f	44	LEU	3.4
1	f	99	LEU	3.4
1	L	91	ARG	3.4
1	W	67	ARG	3.4
1	W	795	PHE	3.4
1	Y	170	GLN	3.4
1	H	815	PRO	3.4
1	J	278	PRO	3.4
1	h	47	PRO	3.4
1	m	117	PRO	3.4
1	L	85	HIS	3.4
1	O	188	LYS	3.4
1	P	77	ILE	3.4
1	a	36	ILE	3.4
1	h	622	ALA	3.4
1	T	59	CYS	3.4
1	N	51	VAL	3.4
1	R	20	ASP	3.4
1	S	423	VAL	3.4
1	Y	25	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	606	PHE	3.4
1	i	37	ARG	3.4
1	a	170	GLN	3.4
1	F	133	ASN	3.4
1	R	261	PRO	3.4
1	T	98	PRO	3.4
1	g	109	ILE	3.4
1	j	55	PRO	3.4
1	j	98	PRO	3.4
1	L	99	LEU	3.4
1	Q	259	HIS	3.4
1	c	44	LEU	3.4
1	m	14	HIS	3.4
1	G	81	VAL	3.4
1	H	25	VAL	3.4
1	N	15	TYR	3.4
1	T	204	TYR	3.4
1	W	61	VAL	3.4
1	h	61	VAL	3.4
1	j	51	VAL	3.4
1	F	161	GLU	3.4
1	J	103	GLU	3.4
1	K	800	GLU	3.4
1	Q	346	GLU	3.4
1	Z	110	THR	3.4
1	i	52	THR	3.4
1	A	75	PHE	3.4
1	M	45	PHE	3.4
1	e	185	ARG	3.4
1	G	16	ILE	3.4
1	b	33	LYS	3.4
1	B	815	PRO	3.4
1	F	427	LEU	3.4
1	I	105	LEU	3.4
1	J	24	ASN	3.4
1	N	22	ASN	3.4
1	U	116	LEU	3.4
1	c	55	PRO	3.4
1	d	178	ALA	3.4
1	N	65	VAL	3.4
1	l	61	VAL	3.4
1	N	156	GLU	3.4

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Mol	Chain	Res	Type	RSRZ
1	F	79	GLY	3.4
1	E	185	ARG	3.4
1	N	185	ARG	3.4
1	i	185	ARG	3.4
1	l	695	ASP	3.4
1	L	188	LYS	3.4
1	J	19	LEU	3.4
1	a	126	LEU	3.4
1	W	153	PRO	3.4
1	O	28	VAL	3.4
1	P	65	VAL	3.4
1	B	461	ARG	3.4
1	I	177	ARG	3.4
1	J	67	ARG	3.4
1	M	91	ARG	3.4
1	S	210	GLU	3.4
1	U	91	ARG	3.4
1	Y	211	GLU	3.4
1	g	79	GLY	3.4
1	Q	87	ASP	3.4
1	N	99	LEU	3.4
1	X	221	LEU	3.4
1	B	98	PRO	3.4
1	K	153	PRO	3.4
1	R	153	PRO	3.4
1	b	148	PRO	3.4
1	e	55	PRO	3.4
1	H	795	PHE	3.4
1	Z	100	TYR	3.4
1	L	211	GLU	3.3
1	i	605	GLY	3.3
1	j	41	GLU	3.3
1	m	140	GLY	3.3
1	Y	78	THR	3.3
1	e	126	LEU	3.3
1	h	518	LEU	3.3
1	l	19	LEU	3.3
1	D	352	GLN	3.3
1	I	809	ASP	3.3
1	h	20	ASP	3.3
1	Z	196	TRP	3.3
1	D	278	PRO	3.3

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Mol	Chain	Res	Type	RSRZ
1	E	153	PRO	3.3
1	V	101	PRO	3.3
1	J	61	VAL	3.3
1	R	63	ASN	3.3
1	R	423	VAL	3.3
1	V	18	VAL	3.3
1	H	45	PHE	3.3
1	M	67	ARG	3.3
1	M	795	PHE	3.3
1	a	27	ARG	3.3
1	m	45	PHE	3.3
1	R	204	TYR	3.3
1	T	35	TYR	3.3
1	U	36	ILE	3.3
1	g	16	ILE	3.3
1	j	85	HIS	3.3
1	m	109	ILE	3.3
1	D	276	LEU	3.3
1	W	427	LEU	3.3
1	m	266	GLU	3.3
1	U	214	ASP	3.3
1	A	117	PRO	3.3
1	U	815	PRO	3.3
1	G	18	VAL	3.3
1	F	199	ARG	3.3
1	M	477	ARG	3.3
1	Z	171	ASN	3.3
1	E	427	LEU	3.3
1	N	16	ILE	3.3
1	G	35	TYR	3.3
1	G	202	GLY	3.3
1	L	204	TYR	3.3
1	D	4	GLU	3.3
1	E	142	GLU	3.3
1	G	156	GLU	3.3
1	K	146	GLU	3.3
1	N	778	GLU	3.3
1	f	143	TRP	3.3
1	C	64	PRO	3.3
1	E	101	PRO	3.3
1	N	93	ALA	3.3
1	C	423	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
1	I	360	ARG	3.3
1	O	53	VAL	3.3
1	P	159	VAL	3.3
1	l	507	ARG	3.3
1	H	126	LEU	3.3
1	U	109	ILE	3.3
1	f	127	LEU	3.3
1	V	605	GLY	3.3
1	G	5	GLU	3.3
1	R	41	GLU	3.3
1	Z	41	GLU	3.3
1	b	338	GLN	3.3
1	i	330	GLN	3.3
1	F	815	PRO	3.3
1	B	53	VAL	3.3
1	L	131	ASP	3.3
1	L	109	ILE	3.3
1	M	808	ARG	3.3
1	Y	199	ARG	3.3
1	l	131	ASP	3.3
1	S	83	LEU	3.3
1	a	221	LEU	3.3
1	l	44	LEU	3.3
1	I	202	GLY	3.3
1	e	140	GLY	3.3
1	j	798	MET	3.3
1	S	151	TYR	3.3
1	V	110	THR	3.3
1	H	41	GLU	3.3
1	j	146	GLU	3.3
1	J	259	HIS	3.3
1	B	109	ILE	3.3
1	G	105	LEU	3.3
1	L	67	ARG	3.3
1	N	46	ALA	3.3
1	J	47	PRO	3.3
1	T	109	ILE	3.3
1	b	105	LEU	3.3
1	e	81	VAL	3.3
1	R	102	GLY	3.3
1	L	34	THR	3.3
1	M	204	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
1	Q	100	TYR	3.3
1	g	15	TYR	3.3
1	F	188	LYS	3.3
1	I	5	GLU	3.3
1	i	210	GLU	3.3
1	i	372	GLU	3.3
1	K	17	HIS	3.3
1	D	242	LEU	3.2
1	J	99	LEU	3.2
1	J	126	LEU	3.2
1	c	83	LEU	3.2
1	k	45	PHE	3.2
1	C	7	ILE	3.2
1	N	2	ALA	3.2
1	Y	185	ARG	3.2
1	B	459	SER	3.2
1	V	61	VAL	3.2
1	g	459	SER	3.2
1	H	249	TRP	3.2
1	U	110	THR	3.2
1	V	100	TYR	3.2
1	V	151	TYR	3.2
1	W	34	THR	3.2
1	g	110	THR	3.2
1	N	644	GLU	3.2
1	O	791	GLU	3.2
1	Q	161	GLU	3.2
1	Z	4	GLU	3.2
1	l	338	GLN	3.2
1	L	16	ILE	3.2
1	b	27	ARG	3.2
1	d	36	ILE	3.2
1	h	59	CYS	3.2
1	G	62	ALA	3.2
1	M	804	PRO	3.2
1	O	111	PRO	3.2
1	O	148	PRO	3.2
1	g	815	PRO	3.2
1	h	815	PRO	3.2
1	O	1	MET	3.2
1	H	33	LYS	3.2
1	W	695	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
1	f	20	ASP	3.2
1	i	95	ASP	3.2
1	B	202	GLY	3.2
1	C	292	GLY	3.2
1	D	79	GLY	3.2
1	N	166	THR	3.2
1	Q	58	TYR	3.2
1	c	539	LEU	3.2
1	E	769	GLU	3.2
1	M	113	GLN	3.2
1	H	36	ILE	3.2
1	N	485	GLU	3.2
1	T	156	GLU	3.2
1	U	103	GLU	3.2
1	f	346	GLU	3.2
1	i	75	PHE	3.2
1	j	461	ARG	3.2
1	L	18	VAL	3.2
1	X	178	ALA	3.2
1	d	33	LYS	3.2
1	I	99	LEU	3.2
1	J	22	ASN	3.2
1	L	78	THR	3.2
1	a	34	THR	3.2
1	k	133	ASN	3.2
1	B	164	GLN	3.2
1	K	58	TYR	3.2
1	S	16	ILE	3.2
1	d	338	GLN	3.2
1	B	346	GLU	3.2
1	D	266	GLU	3.2
1	E	91	ARG	3.2
1	F	82	ARG	3.2
1	H	279	ARG	3.2
1	J	266	GLU	3.2
1	S	161	GLU	3.2
1	T	346	GLU	3.2
1	d	211	GLU	3.2
1	f	82	ARG	3.2
1	F	423	VAL	3.2
1	I	178	ALA	3.2
1	a	85	HIS	3.2

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Mol	Chain	Res	Type	RSRZ
1	I	261	PRO	3.2
1	N	33	LYS	3.2
1	f	33	LYS	3.2
1	h	117	PRO	3.2
1	E	105	LEU	3.2
1	T	249	TRP	3.2
1	Y	427	LEU	3.2
1	h	539	LEU	3.2
1	E	149	GLY	3.2
1	I	149	GLY	3.2
1	R	45	PHE	3.2
1	d	8	ILE	3.2
1	D	154	GLN	3.2
1	Q	20	ASP	3.2
1	U	170	GLN	3.2
1	V	95	ASP	3.2
1	e	338	GLN	3.2
1	S	142	GLU	3.2
1	d	266	GLU	3.2
1	H	6	ALA	3.2
1	c	48	VAL	3.2
1	i	159	VAL	3.2
1	S	259	HIS	3.2
1	S	815	PRO	3.2
1	T	117	PRO	3.2
1	X	153	PRO	3.2
1	J	134	GLY	3.2
1	W	16	ILE	3.2
1	f	149	GLY	3.2
1	A	34	THR	3.2
1	H	318	ARG	3.2
1	Q	37	ARG	3.2
1	U	185	ARG	3.2
1	W	474	ARG	3.2
1	i	623	ARG	3.2
1	C	691	GLN	3.2
1	G	94	GLN	3.2
1	L	95	ASP	3.2
1	T	255	ASP	3.2
1	b	35	TYR	3.2
1	G	181	GLU	3.2
1	c	103	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
1	d	407	MET	3.2
1	h	5	GLU	3.2
1	j	418	GLU	3.2
1	A	18	VAL	3.2
1	Q	423	VAL	3.2
1	T	61	VAL	3.2
1	V	48	VAL	3.2
1	L	101	PRO	3.2
1	i	804	PRO	3.2
1	W	145	PHE	3.1
1	D	78	THR	3.1
1	F	37	ARG	3.1
1	i	49	ARG	3.1
1	i	600	ARG	3.1
1	R	154	GLN	3.1
1	V	59	CYS	3.1
1	X	798	MET	3.1
1	h	88	GLN	3.1
1	h	154	GLN	3.1
1	h	385	ASN	3.1
1	L	100	TYR	3.1
1	B	328	GLU	3.1
1	L	266	GLU	3.1
1	U	211	GLU	3.1
1	c	4	GLU	3.1
1	T	159	VAL	3.1
1	V	423	VAL	3.1
1	i	212	VAL	3.1
1	f	539	LEU	3.1
1	g	539	LEU	3.1
1	C	54	PRO	3.1
1	E	815	PRO	3.1
1	I	117	PRO	3.1
1	h	17	HIS	3.1
1	A	189	GLY	3.1
1	P	185	ARG	3.1
1	S	147	GLY	3.1
1	J	33	LYS	3.1
1	P	352	GLN	3.1
1	j	94	GLN	3.1
1	L	22	ASN	3.1
1	M	22	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
1	Q	15	TYR	3.1
1	S	35	TYR	3.1
1	X	151	TYR	3.1
1	i	35	TYR	3.1
1	I	26	SER	3.1
1	O	19	LEU	3.1
1	P	99	LEU	3.1
1	S	18	VAL	3.1
1	Y	423	VAL	3.1
1	d	48	VAL	3.1
1	C	152	ILE	3.1
1	D	148	PRO	3.1
1	H	98	PRO	3.1
1	M	55	PRO	3.1
1	P	109	ILE	3.1
1	e	815	PRO	3.1
1	i	16	ILE	3.1
1	c	45	PHE	3.1
1	J	42	ARG	3.1
1	A	164	GLN	3.1
1	T	170	GLN	3.1
1	c	21	GLN	3.1
1	O	81	VAL	3.1
1	Y	35	TYR	3.1
1	D	41	GLU	3.1
1	D	342	GLU	3.1
1	H	266	GLU	3.1
1	l	346	GLU	3.1
1	X	262	ASP	3.1
1	Z	695	ASP	3.1
1	j	695	ASP	3.1
1	D	153	PRO	3.1
1	N	54	PRO	3.1
1	O	153	PRO	3.1
1	T	278	PRO	3.1
1	f	97	PHE	3.1
1	R	67	ARG	3.1
1	A	259	HIS	3.1
1	g	85	HIS	3.1
1	C	99	LEU	3.1
1	P	110	THR	3.1
1	S	44	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	Z	105	LEU	3.1
1	h	110	THR	3.1
1	j	110	THR	3.1
1	C	28	VAL	3.1
1	S	159	VAL	3.1
1	T	22	ASN	3.1
1	X	423	VAL	3.1
1	a	61	VAL	3.1
1	g	18	VAL	3.1
1	h	171	ASN	3.1
1	M	58	TYR	3.1
1	l	58	TYR	3.1
1	U	77	ILE	3.1
1	Z	266	GLU	3.1
1	c	161	GLU	3.1
1	I	45	PHE	3.1
1	F	96	PRO	3.1
1	L	37	ARG	3.1
1	C	810	LEU	3.1
1	H	149	GLY	3.1
1	L	14	HIS	3.1
1	W	14	HIS	3.1
1	W	92	LEU	3.1
1	c	85	HIS	3.1
1	i	189	GLY	3.1
1	m	74	LEU	3.1
1	m	105	LEU	3.1
1	G	166	THR	3.1
1	T	166	THR	3.1
1	c	78	THR	3.1
1	j	659	GLN	3.1
1	M	65	VAL	3.1
1	R	81	VAL	3.1
1	S	160	VAL	3.1
1	T	65	VAL	3.1
1	A	143	TRP	3.1
1	M	16	ILE	3.1
1	O	196	TRP	3.1
1	P	35	TYR	3.1
1	R	109	ILE	3.1
1	S	100	TYR	3.1
1	i	143	TRP	3.1

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Mol	Chain	Res	Type	RSRZ
1	k	15	TYR	3.1
1	A	29	GLU	3.1
1	G	142	GLU	3.1
1	R	146	GLU	3.1
1	e	5	GLU	3.1
1	m	265	GLU	3.1
1	L	33	LYS	3.1
1	g	33	LYS	3.1
1	b	54	PRO	3.1
1	g	153	PRO	3.1
1	i	815	PRO	3.1
1	G	74	LEU	3.1
1	d	149	GLY	3.1
1	e	149	GLY	3.1
1	A	17	HIS	3.1
1	M	338	GLN	3.0
1	A	25	VAL	3.0
1	S	28	VAL	3.0
1	f	65	VAL	3.0
1	f	449	SER	3.0
1	H	178	ALA	3.0
1	M	178	ALA	3.0
1	U	6	ALA	3.0
1	m	677	ALA	3.0
1	J	97	PHE	3.0
1	U	22	ASN	3.0
1	A	372	GLU	3.0
1	O	318	ARG	3.0
1	R	266	GLU	3.0
1	W	103	GLU	3.0
1	X	91	ARG	3.0
1	B	153	PRO	3.0
1	E	55	PRO	3.0
1	L	268	LEU	3.0
1	O	144	LEU	3.0
1	V	804	PRO	3.0
1	X	261	PRO	3.0
1	g	19	LEU	3.0
1	h	141	ASP	3.0
1	S	78	THR	3.0
1	g	170	GLN	3.0
1	k	80	GLN	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	17	HIS	3.0
1	X	36	ILE	3.0
1	h	57	HIS	3.0
1	M	104	VAL	3.0
1	M	97	PHE	3.0
1	Z	93	ALA	3.0
1	C	507	ARG	3.0
1	G	685	ARG	3.0
1	I	151	TYR	3.0
1	K	133	ASN	3.0
1	N	89	GLU	3.0
1	N	249	TRP	3.0
1	T	91	ARG	3.0
1	I	238	LEU	3.0
1	R	74	LEU	3.0
1	W	242	LEU	3.0
1	b	138	MET	3.0
1	k	126	LEU	3.0
1	m	99	LEU	3.0
1	J	153	PRO	3.0
1	N	815	PRO	3.0
1	E	355	ASP	3.0
1	L	695	ASP	3.0
1	g	20	ASP	3.0
1	A	10	ILE	3.0
1	A	338	GLN	3.0
1	W	110	THR	3.0
1	Y	94	GLN	3.0
1	G	160	VAL	3.0
1	a	33	LYS	3.0
1	K	259	HIS	3.0
1	L	57	HIS	3.0
1	i	65	VAL	3.0
1	a	59	CYS	3.0
1	A	340	LEU	3.0
1	D	199	ARG	3.0
1	V	91	ARG	3.0
1	a	19	LEU	3.0
1	a	42	ARG	3.0
1	e	204	TYR	3.0
1	h	810	LEU	3.0
1	I	305	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	X	342	GLU	3.0
1	f	372	GLU	3.0
1	F	153	PRO	3.0
1	Q	8	ILE	3.0
1	K	338	GLN	3.0
1	h	170	GLN	3.0
1	i	329	GLN	3.0
1	c	97	PHE	3.0
1	i	640	VAL	3.0
1	H	19	LEU	3.0
1	N	414	LEU	3.0
1	P	690	ARG	3.0
1	R	17	HIS	3.0
1	T	798	MET	3.0
1	b	67	ARG	3.0
1	c	27	ARG	3.0
1	c	42	ARG	3.0
1	e	44	LEU	3.0
1	g	597	ARG	3.0
1	A	100	TYR	3.0
1	P	15	TYR	3.0
1	X	22	ASN	3.0
1	Z	63	ASN	3.0
1	i	100	TYR	3.0
1	l	22	ASN	3.0
1	M	249	TRP	3.0
1	P	41	GLU	3.0
1	Z	29	GLU	3.0
1	d	376	GLU	3.0
1	a	153	PRO	3.0
1	c	148	PRO	3.0
1	e	96	PRO	3.0
1	g	96	PRO	3.0
1	I	188	LYS	3.0
1	M	90	ILE	3.0
1	O	102	GLY	3.0
1	O	147	GLY	3.0
1	A	52	THR	3.0
1	X	113	GLN	3.0
1	j	75	PHE	3.0
1	j	691	GLN	3.0
1	N	43	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
1	P	19	LEU	3.0
1	Q	44	LEU	3.0
1	T	25	VAL	3.0
1	T	26	SER	3.0
1	m	48	VAL	3.0
1	D	91	ARG	3.0
1	R	217	ASP	3.0
1	S	82	ARG	3.0
1	L	259	HIS	3.0
1	G	15	TYR	3.0
1	P	22	ASN	3.0
1	Z	58	TYR	3.0
1	f	58	TYR	3.0
1	k	171	ASN	3.0
1	l	204	TYR	3.0
1	j	59	CYS	3.0
1	m	211	GLU	3.0
1	U	153	PRO	3.0
1	d	451	PRO	3.0
1	W	90	ILE	3.0
1	U	795	PHE	3.0
1	A	691	GLN	3.0
1	E	83	LEU	3.0
1	D	212	VAL	3.0
1	J	80	GLN	3.0
1	J	164	GLN	3.0
1	M	110	THR	3.0
1	N	338	GLN	3.0
1	R	539	LEU	3.0
1	V	44	LEU	3.0
1	W	691	GLN	3.0
1	h	414	LEU	3.0
1	e	1	MET	3.0
1	e	48	VAL	3.0
1	j	34	THR	3.0
1	A	318	ARG	3.0
1	Z	809	ASP	3.0
1	a	57	HIS	2.9
1	g	14	HIS	2.9
1	B	15	TYR	2.9
1	U	35	TYR	2.9
1	c	204	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
1	j	204	TYR	2.9
1	F	156	GLU	2.9
1	Q	815	PRO	2.9
1	H	143	TRP	2.9
1	F	99	LEU	2.9
1	G	19	LEU	2.9
1	O	126	LEU	2.9
1	S	145	PHE	2.9
1	G	189	GLY	2.9
1	L	318	ARG	2.9
1	T	67	ARG	2.9
1	b	81	VAL	2.9
1	O	20	ASP	2.9
1	I	36	ILE	2.9
1	Z	109	ILE	2.9
1	e	168	ILE	2.9
1	h	394	LYS	2.9
1	d	100	TYR	2.9
1	G	161	GLU	2.9
1	N	161	GLU	2.9
1	O	47	PRO	2.9
1	U	54	PRO	2.9
1	V	815	PRO	2.9
1	g	98	PRO	2.9
1	l	29	GLU	2.9
1	T	99	LEU	2.9
1	H	138	MET	2.9
1	I	110	THR	2.9
1	I	352	GLN	2.9
1	I	507	ARG	2.9
1	M	49	ARG	2.9
1	M	159	VAL	2.9
1	R	65	VAL	2.9
1	T	338	GLN	2.9
1	W	199	ARG	2.9
1	Z	150	THR	2.9
1	d	28	VAL	2.9
1	m	67	ARG	2.9
1	i	528	THR	2.9
1	L	178	ALA	2.9
1	V	93	ALA	2.9
1	B	33	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	293	LYS	2.9
1	V	90	ILE	2.9
1	E	141	ASP	2.9
1	k	255	ASP	2.9
1	C	85	HIS	2.9
1	I	44	LEU	2.9
1	I	268	LEU	2.9
1	N	58	TYR	2.9
1	T	85	HIS	2.9
1	Y	14	HIS	2.9
1	b	83	LEU	2.9
1	c	35	TYR	2.9
1	c	144	LEU	2.9
1	e	259	HIS	2.9
1	g	57	HIS	2.9
1	h	126	LEU	2.9
1	k	74	LEU	2.9
1	m	772	TYR	2.9
1	Z	101	PRO	2.9
1	Z	372	GLU	2.9
1	f	211	GLU	2.9
1	h	795	PHE	2.9
1	i	41	GLU	2.9
1	j	97	PHE	2.9
1	E	82	ARG	2.9
1	G	91	ARG	2.9
1	I	42	ARG	2.9
1	R	190	ARG	2.9
1	M	25	VAL	2.9
1	R	61	VAL	2.9
1	R	104	VAL	2.9
1	S	691	GLN	2.9
1	X	260	VAL	2.9
1	N	59	CYS	2.9
1	P	33	LYS	2.9
1	P	59	CYS	2.9
1	h	8	ILE	2.9
1	B	19	LEU	2.9
1	Q	99	LEU	2.9
1	Z	99	LEU	2.9
1	d	116	LEU	2.9
1	e	537	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
1	g	214	ASP	2.9
1	F	548	GLU	2.9
1	H	376	GLU	2.9
1	M	12	PRO	2.9
1	V	117	PRO	2.9
1	V	278	PRO	2.9
1	Y	815	PRO	2.9
1	a	55	PRO	2.9
1	e	148	PRO	2.9
1	j	54	PRO	2.9
1	k	259	HIS	2.9
1	B	91	ARG	2.9
1	G	37	ARG	2.9
1	O	185	ARG	2.9
1	Y	279	ARG	2.9
1	D	149	GLY	2.9
1	D	325	VAL	2.9
1	F	81	VAL	2.9
1	N	147	GLY	2.9
1	W	423	VAL	2.9
1	M	293	LYS	2.9
1	W	69	THR	2.9
1	W	124	LYS	2.9
1	O	62	ALA	2.9
1	T	125	ALA	2.9
1	D	427	LEU	2.9
1	N	795	PHE	2.9
1	B	111	PRO	2.9
1	G	804	PRO	2.9
1	N	100	TYR	2.9
1	E	328	GLU	2.9
1	F	63	ASN	2.9
1	N	20	ASP	2.9
1	N	47	PRO	2.9
1	S	55	PRO	2.9
1	d	278	PRO	2.9
1	e	15	TYR	2.9
1	l	15	TYR	2.9
1	U	279	ARG	2.9
1	W	372	GLU	2.9
1	a	17	HIS	2.9
1	h	211	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	j	769	GLU	2.9
1	l	82	ARG	2.9
1	m	42	ARG	2.9
1	Y	80	GLN	2.9
1	Y	149	GLY	2.9
1	m	65	VAL	2.9
1	F	150	THR	2.9
1	Q	93	ALA	2.9
1	a	86	ALA	2.9
1	b	168	ILE	2.9
1	h	527	ILE	2.9
1	i	7	ILE	2.9
1	C	537	LEU	2.9
1	G	44	LEU	2.9
1	M	83	LEU	2.9
1	M	427	LEU	2.9
1	O	539	LEU	2.9
1	d	268	LEU	2.9
1	G	129	PHE	2.9
1	W	45	PHE	2.9
1	A	278	PRO	2.9
1	C	67	ARG	2.9
1	C	204	TYR	2.9
1	E	64	PRO	2.9
1	E	177	ARG	2.9
1	G	67	ARG	2.9
1	I	111	PRO	2.9
1	R	49	ARG	2.9
1	T	58	TYR	2.9
1	i	117	PRO	2.9
1	B	171	ASN	2.9
1	G	95	ASP	2.8
1	G	214	ASP	2.8
1	J	87	ASP	2.8
1	K	5	GLU	2.9
1	K	188	LYS	2.9
1	X	5	GLU	2.9
1	h	259	HIS	2.8
1	i	745	LYS	2.9
1	H	170	GLN	2.8
1	H	189	GLY	2.8
1	Y	366	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
1	h	140	GLY	2.8
1	c	109	ILE	2.8
1	g	36	ILE	2.8
1	h	77	ILE	2.8
1	W	44	LEU	2.8
1	X	215	LEU	2.8
1	k	427	LEU	2.8
1	T	495	PHE	2.8
1	E	49	ARG	2.8
1	a	507	ARG	2.8
1	c	49	ARG	2.8
1	j	185	ARG	2.8
1	J	815	PRO	2.8
1	S	278	PRO	2.8
1	U	32	PRO	2.8
1	c	815	PRO	2.8
1	g	47	PRO	2.8
1	k	293	LYS	2.8
1	B	146	GLU	2.8
1	F	211	GLU	2.8
1	I	171	ASN	2.8
1	S	5	GLU	2.8
1	T	53	VAL	2.8
1	Y	158	GLU	2.8
1	f	24	ASN	2.8
1	A	144	LEU	2.8
1	C	116	LEU	2.8
1	E	88	GLN	2.8
1	E	268	LEU	2.8
1	K	147	GLY	2.8
1	K	214	ASP	2.8
1	b	149	GLY	2.8
1	c	17	HIS	2.8
1	c	338	GLN	2.8
1	f	7	ILE	2.8
1	g	329	GLN	2.8
1	i	149	GLY	2.8
1	V	6	ALA	2.8
1	j	143	TRP	2.8
1	H	27	ARG	2.8
1	H	293	LYS	2.8
1	V	27	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	f	600	ARG	2.8
1	U	64	PRO	2.8
1	U	117	PRO	2.8
1	a	32	PRO	2.8
1	h	64	PRO	2.8
1	j	153	PRO	2.8
1	l	278	PRO	2.8
1	m	278	PRO	2.8
1	G	83	LEU	2.8
1	H	156	GLU	2.8
1	I	77	ILE	2.8
1	R	5	GLU	2.8
1	V	144	LEU	2.8
1	g	493	GLU	2.8
1	h	161	GLU	2.8
1	i	63	ASN	2.8
1	i	99	LEU	2.8
1	A	14	HIS	2.8
1	J	59	CYS	2.8
1	M	79	GLY	2.8
1	N	691	GLN	2.8
1	V	330	GLN	2.8
1	k	605	GLY	2.8
1	Y	95	ASP	2.8
1	G	33	LYS	2.8
1	O	536	ARG	2.8
1	P	82	ARG	2.8
1	X	37	ARG	2.8
1	d	67	ARG	2.8
1	j	33	LYS	2.8
1	j	67	ARG	2.8
1	J	109	ILE	2.8
1	W	19	LEU	2.8
1	W	144	LEU	2.8
1	f	815	PRO	2.8
1	g	32	PRO	2.8
1	g	35	TYR	2.8
1	g	278	PRO	2.8
1	V	65	VAL	2.8
1	a	18	VAL	2.8
1	i	18	VAL	2.8
1	E	246	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
1	L	691	GLN	2.8
1	N	21	GLN	2.8
1	T	4	GLU	2.8
1	T	803	GLY	2.8
1	W	4	GLU	2.8
1	X	89	GLU	2.8
1	l	265	GLU	2.8
1	G	14	HIS	2.8
1	I	125	ALA	2.8
1	N	259	HIS	2.8
1	O	2	ALA	2.8
1	P	178	ALA	2.8
1	f	259	HIS	2.8
1	i	450	ALA	2.8
1	j	17	HIS	2.8
1	j	178	ALA	2.8
1	I	407	MET	2.8
1	d	59	CYS	2.8
1	h	214	ASP	2.8
1	k	95	ASP	2.8
1	E	188	LYS	2.8
1	Z	188	LYS	2.8
1	G	49	ARG	2.8
1	G	199	ARG	2.8
1	H	185	ARG	2.8
1	J	143	TRP	2.8
1	K	37	ARG	2.8
1	m	91	ARG	2.8
1	G	116	LEU	2.8
1	L	19	LEU	2.8
1	S	74	LEU	2.8
1	c	77	ILE	2.8
1	E	98	PRO	2.8
1	F	65	VAL	2.8
1	I	98	PRO	2.8
1	K	15	TYR	2.8
1	N	151	TYR	2.8
1	P	423	VAL	2.8
1	a	53	VAL	2.8
1	m	111	PRO	2.8
1	E	266	GLU	2.8
1	H	147	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
1	M	140	GLY	2.8
1	P	29	GLU	2.8
1	S	170	GLN	2.8
1	V	295	GLN	2.8
1	a	189	GLY	2.8
1	h	41	GLU	2.8
1	i	156	GLU	2.8
1	i	352	GLN	2.8
1	l	266	GLU	2.8
1	m	189	GLY	2.8
1	T	62	ALA	2.8
1	W	178	ALA	2.8
1	b	45	PHE	2.8
1	Q	293	LYS	2.8
1	i	14	HIS	2.8
1	N	91	ARG	2.8
1	T	185	ARG	2.8
1	d	131	ASP	2.8
1	Y	59	CYS	2.8
1	l	126	LEU	2.8
1	c	16	ILE	2.8
1	j	16	ILE	2.8
1	F	61	VAL	2.8
1	O	65	VAL	2.8
1	U	61	VAL	2.8
1	U	278	PRO	2.8
1	V	64	PRO	2.8
1	X	96	PRO	2.8
1	X	216	VAL	2.8
1	b	51	VAL	2.8
1	g	451	PRO	2.8
1	m	98	PRO	2.8
1	A	324	TYR	2.8
1	T	376	GLU	2.8
1	c	170	GLN	2.8
1	d	29	GLU	2.8
1	m	798	MET	2.8
1	F	621	LYS	2.8
1	g	133	ASN	2.8
1	f	528	THR	2.8
1	B	536	ARG	2.7
1	J	37	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
1	S	17	HIS	2.7
1	T	17	HIS	2.7
1	f	14	HIS	2.7
1	N	340	LEU	2.7
1	e	74	LEU	2.7
1	V	109	ILE	2.7
1	O	143	TRP	2.7
1	Q	59	CYS	2.7
1	G	350	SER	2.7
1	B	117	PRO	2.7
1	D	261	PRO	2.7
1	E	96	PRO	2.7
1	I	65	VAL	2.7
1	J	32	PRO	2.7
1	K	18	VAL	2.7
1	N	585	SER	2.7
1	b	101	PRO	2.7
1	c	153	PRO	2.7
1	j	28	VAL	2.7
1	M	33	LYS	2.7
1	O	151	TYR	2.7
1	U	151	TYR	2.7
1	Z	45	PHE	2.7
1	e	58	TYR	2.7
1	i	164	GLN	2.7
1	l	324	TYR	2.7
1	C	344	GLU	2.7
1	I	689	GLU	2.7
1	O	93	ALA	2.7
1	R	211	GLU	2.7
1	E	166	THR	2.7
1	R	150	THR	2.7
1	e	171	ASN	2.7
1	V	92	LEU	2.7
1	d	19	LEU	2.7
1	h	99	LEU	2.7
1	k	452	ARG	2.7
1	R	135	ASP	2.7
1	Y	214	ASP	2.7
1	A	373	VAL	2.7
1	I	23	SER	2.7
1	N	104	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	f	51	VAL	2.7
1	h	53	VAL	2.7
1	C	278	PRO	2.7
1	H	278	PRO	2.7
1	P	54	PRO	2.7
1	V	111	PRO	2.7
1	e	45	PHE	2.7
1	h	621	LYS	2.7
1	i	795	PHE	2.7
1	J	58	TYR	2.7
1	C	125	ALA	2.7
1	C	149	GLY	2.7
1	K	151	TYR	2.7
1	P	204	TYR	2.7
1	Q	38	GLN	2.7
1	k	58	TYR	2.7
1	H	93	ALA	2.7
1	K	185	ARG	2.7
1	T	44	LEU	2.7
1	V	146	GLU	2.7
1	a	110	THR	2.7
1	g	52	THR	2.7
1	j	19	LEU	2.7
1	l	5	GLU	2.7
1	a	77	ILE	2.7
1	M	17	HIS	2.7
1	A	355	ASP	2.7
1	K	20	ASP	2.7
1	B	25	VAL	2.7
1	I	423	VAL	2.7
1	P	124	LYS	2.7
1	O	815	PRO	2.7
1	Z	815	PRO	2.7
1	D	197	LEU	2.7
1	F	691	GLN	2.7
1	G	134	GLY	2.7
1	O	691	GLN	2.7
1	g	537	LEU	2.7
1	k	99	LEU	2.7
1	A	461	ARG	2.7
1	C	142	GLU	2.7
1	K	9	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
1	N	687	ARG	2.7
1	H	171	ASN	2.7
1	K	85	HIS	2.7
1	U	798	MET	2.7
1	d	293	LYS	2.7
1	i	57	HIS	2.7
1	E	200	SER	2.7
1	N	1	MET	2.7
1	J	18	VAL	2.7
1	K	495	PHE	2.7
1	X	449	SER	2.7
1	T	28	VAL	2.7
1	b	75	PHE	2.7
1	c	216	VAL	2.7
1	g	75	PHE	2.7
1	i	48	VAL	2.7
1	K	87	ASP	2.7
1	M	214	ASP	2.7
1	M	355	ASP	2.7
1	X	472	ASP	2.7
1	b	196	TRP	2.7
1	E	99	LEU	2.7
1	E	205	LEU	2.7
1	Y	117	PRO	2.7
1	a	99	LEU	2.7
1	P	88	GLN	2.7
1	V	149	GLY	2.7
1	W	82	ARG	2.7
1	W	330	GLN	2.7
1	f	170	GLN	2.7
1	j	80	GLN	2.7
1	l	80	GLN	2.7
1	m	338	GLN	2.7
1	G	686	GLY	2.7
1	N	125	ALA	2.7
1	Q	149	GLY	2.7
1	Y	319	GLY	2.7
1	h	125	ALA	2.7
1	C	78	THR	2.7
1	Y	344	GLU	2.7
1	a	52	THR	2.7
1	A	407	MET	2.7

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Mol	Chain	Res	Type	RSRZ
1	C	138	MET	2.7
1	h	601	MET	2.7
1	f	57	HIS	2.7
1	j	585	SER	2.7
1	H	812	VAL	2.7
1	J	44	LEU	2.7
1	N	212	VAL	2.7
1	P	81	VAL	2.7
1	a	51	VAL	2.7
1	i	238	LEU	2.7
1	A	695	ASP	2.7
1	E	12	PRO	2.7
1	E	261	PRO	2.7
1	G	96	PRO	2.7
1	D	88	GLN	2.7
1	D	474	ARG	2.7
1	I	91	ARG	2.7
1	J	88	GLN	2.7
1	J	113	GLN	2.7
1	R	37	ARG	2.7
1	S	255	ASP	2.7
1	V	809	ASP	2.7
1	k	804	PRO	2.7
1	l	55	PRO	2.7
1	c	88	GLN	2.7
1	e	329	GLN	2.7
1	h	597	ARG	2.7
1	D	100	TYR	2.7
1	S	605	GLY	2.7
1	X	6	ALA	2.7
1	a	343	GLY	2.7
1	c	86	ALA	2.7
1	g	140	GLY	2.7
1	k	178	ALA	2.7
1	m	178	ALA	2.7
1	G	607	GLU	2.7
1	J	78	THR	2.7
1	K	110	THR	2.7
1	P	156	GLU	2.7
1	V	266	GLU	2.7
1	i	158	GLU	2.7
1	B	63	ASN	2.7

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Mol	Chain	Res	Type	RSRZ
1	Y	224	LYS	2.7
1	S	45	PHE	2.7
1	G	112	LEU	2.7
1	K	268	LEU	2.7
1	U	539	LEU	2.7
1	N	57	HIS	2.6
1	i	160	VAL	2.6
1	B	36	ILE	2.6
1	H	91	ARG	2.6
1	P	148	PRO	2.6
1	X	452	ARG	2.6
1	i	507	ARG	2.6
1	Y	330	GLN	2.6
1	a	329	GLN	2.6
1	b	691	GLN	2.6
1	S	20	ASP	2.6
1	D	211	GLU	2.6
1	F	4	GLU	2.6
1	F	103	GLU	2.6
1	T	5	GLU	2.6
1	Z	778	GLU	2.6
1	Q	1	MET	2.6
1	Q	24	ASN	2.6
1	C	126	LEU	2.6
1	F	97	PHE	2.6
1	J	116	LEU	2.6
1	J	427	LEU	2.6
1	K	75	PHE	2.6
1	Q	126	LEU	2.6
1	S	539	LEU	2.6
1	d	44	LEU	2.6
1	g	126	LEU	2.6
1	h	97	PHE	2.6
1	l	97	PHE	2.6
1	m	414	LEU	2.6
1	H	212	VAL	2.6
1	T	104	VAL	2.6
1	k	18	VAL	2.6
1	F	16	ILE	2.6
1	G	109	ILE	2.6
1	I	17	HIS	2.6
1	N	67	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	O	507	ARG	2.6
1	U	27	ARG	2.6
1	Y	85	HIS	2.6
1	b	77	ILE	2.6
1	g	67	ARG	2.6
1	k	84	ARG	2.6
1	B	278	PRO	2.6
1	D	12	PRO	2.6
1	V	153	PRO	2.6
1	i	101	PRO	2.6
1	B	338	GLN	2.6
1	H	691	GLN	2.6
1	C	79	GLY	2.6
1	D	813	ALA	2.6
1	I	6	ALA	2.6
1	Q	338	GLN	2.6
1	U	147	GLY	2.6
1	X	711	ALA	2.6
1	f	540	GLN	2.6
1	Q	136	LYS	2.6
1	R	143	TRP	2.6
1	D	217	ASP	2.6
1	J	35	TYR	2.6
1	O	15	TYR	2.6
1	O	52	THR	2.6
1	m	204	TYR	2.6
1	O	346	GLU	2.6
1	S	266	GLU	2.6
1	T	103	GLU	2.6
1	W	5	GLU	2.6
1	Y	181	GLU	2.6
1	e	424	GLU	2.6
1	j	1	MET	2.6
1	N	537	LEU	2.6
1	X	126	LEU	2.6
1	Z	539	LEU	2.6
1	h	22	ASN	2.6
1	j	24	ASN	2.6
1	I	28	VAL	2.6
1	O	159	VAL	2.6
1	P	48	VAL	2.6
1	U	212	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	P	190	ARG	2.6
1	R	84	ARG	2.6
1	U	507	ARG	2.6
1	V	36	ILE	2.6
1	Y	190	ARG	2.6
1	h	461	ARG	2.6
1	j	279	ARG	2.6
1	j	507	ARG	2.6
1	D	54	PRO	2.6
1	E	170	GLN	2.6
1	Q	278	PRO	2.6
1	Q	804	PRO	2.6
1	R	293	LYS	2.6
1	U	188	LYS	2.6
1	c	117	PRO	2.6
1	e	80	GLN	2.6
1	f	148	PRO	2.6
1	U	134	GLY	2.6
1	U	149	GLY	2.6
1	h	62	ALA	2.6
1	k	149	GLY	2.6
1	G	249	TRP	2.6
1	T	1	MET	2.6
1	Z	34	THR	2.6
1	Z	798	MET	2.6
1	f	1	MET	2.6
1	R	19	LEU	2.6
1	X	242	LEU	2.6
1	g	112	LEU	2.6
1	B	161	GLU	2.6
1	C	588	PHE	2.6
1	G	145	PHE	2.6
1	l	809	ASP	2.6
1	I	346	GLU	2.6
1	M	41	GLU	2.6
1	N	346	GLU	2.6
1	O	210	GLU	2.6
1	k	778	GLU	2.6
1	L	63	ASN	2.6
1	a	385	ASN	2.6
1	E	61	VAL	2.6
1	Q	65	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	g	48	VAL	2.6
1	j	81	VAL	2.6
1	M	507	ARG	2.6
1	K	33	LYS	2.6
1	g	293	LYS	2.6
1	N	14	HIS	2.6
1	O	330	GLN	2.6
1	P	338	GLN	2.6
1	T	153	PRO	2.6
1	b	804	PRO	2.6
1	h	153	PRO	2.6
1	Z	748	ALA	2.6
1	E	116	LEU	2.6
1	K	138	MET	2.6
1	R	116	LEU	2.6
1	a	798	MET	2.6
1	b	44	LEU	2.6
1	e	427	LEU	2.6
1	h	116	LEU	2.6
1	i	601	MET	2.6
1	L	3	THR	2.6
1	N	143	TRP	2.6
1	P	143	TRP	2.6
1	X	166	THR	2.6
1	Z	145	PHE	2.6
1	e	795	PHE	2.6
1	h	35	TYR	2.6
1	D	346	GLU	2.6
1	G	108	ASP	2.6
1	K	103	GLU	2.6
1	X	39	ASP	2.6
1	a	29	GLU	2.6
1	e	214	ASP	2.6
1	g	29	GLU	2.6
1	h	103	GLU	2.6
1	H	16	ILE	2.6
1	M	28	VAL	2.6
1	M	77	ILE	2.6
1	R	385	ASN	2.6
1	I	185	ARG	2.6
1	I	212	VAL	2.6
1	O	37	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
1	S	212	VAL	2.6
1	U	318	ARG	2.6
1	W	48	VAL	2.6
1	X	18	VAL	2.6
1	e	18	VAL	2.6
1	g	527	ILE	2.6
1	b	685	ARG	2.6
1	E	621	LYS	2.6
1	W	621	LYS	2.6
1	C	21	GLN	2.6
1	D	101	PRO	2.6
1	H	64	PRO	2.6
1	L	154	GLN	2.6
1	N	170	GLN	2.6
1	O	99	LEU	2.6
1	P	86	ALA	2.6
1	Q	113	GLN	2.6
1	R	99	LEU	2.6
1	Z	125	ALA	2.6
1	Z	144	LEU	2.6
1	f	153	PRO	2.6
1	m	148	PRO	2.6
1	B	75	PHE	2.6
1	T	97	PHE	2.6
1	S	110	THR	2.6
1	T	100	TYR	2.6
1	X	15	TYR	2.6
1	C	211	GLU	2.6
1	I	347	GLU	2.6
1	J	89	GLU	2.6
1	K	16	ILE	2.6
1	P	347	GLU	2.6
1	R	89	GLU	2.6
1	R	575	ILE	2.6
1	T	90	ILE	2.6
1	b	5	GLU	2.6
1	g	585	SER	2.6
1	j	527	ILE	2.6
1	C	190	ARG	2.6
1	D	185	ARG	2.6
1	O	477	ARG	2.6
1	S	695	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
1	V	214	ASP	2.6
1	W	131	ASP	2.6
1	E	136	LYS	2.6
1	E	428	ASN	2.6
1	T	423	VAL	2.6
1	U	63	ASN	2.6
1	W	293	LYS	2.6
1	X	300	ARG	2.6
1	Z	22	ASN	2.6
1	f	452	ARG	2.6
1	k	49	ARG	2.6
1	l	65	VAL	2.6
1	F	205	LEU	2.6
1	U	83	LEU	2.6
1	f	116	LEU	2.6
1	A	21	GLN	2.6
1	B	54	PRO	2.6
1	G	691	GLN	2.6
1	G	815	PRO	2.6
1	H	362	PRO	2.6
1	Q	352	GLN	2.6
1	T	111	PRO	2.6
1	T	362	PRO	2.6
1	Z	117	PRO	2.6
1	a	125	ALA	2.6
1	N	140	GLY	2.6
1	S	795	PHE	2.6
1	V	14	HIS	2.5
1	d	259	HIS	2.5
1	L	52	THR	2.5
1	j	3	THR	2.5
1	B	16	ILE	2.5
1	F	15	TYR	2.5
1	Q	16	ILE	2.5
1	U	16	ILE	2.5
1	U	100	TYR	2.5
1	b	13	TYR	2.5
1	c	15	TYR	2.5
1	f	8	ILE	2.5
1	g	529	ILE	2.5
1	l	10	ILE	2.5
1	l	109	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	R	346	GLU	2.5
1	U	364	GLU	2.5
1	i	597	ARG	2.5
1	F	216	VAL	2.5
1	M	61	VAL	2.5
1	M	643	VAL	2.5
1	O	212	VAL	2.5
1	V	81	VAL	2.5
1	j	48	VAL	2.5
1	m	423	VAL	2.5
1	N	63	ASN	2.5
1	i	20	ASP	2.5
1	i	22	ASN	2.5
1	T	215	LEU	2.5
1	X	92	LEU	2.5
1	b	144	LEU	2.5
1	N	407	MET	2.5
1	A	55	PRO	2.5
1	D	329	GLN	2.5
1	J	671	ALA	2.5
1	J	696	GLN	2.5
1	K	148	PRO	2.5
1	L	278	PRO	2.5
1	N	330	GLN	2.5
1	T	32	PRO	2.5
1	W	420	PRO	2.5
1	W	815	PRO	2.5
1	d	815	PRO	2.5
1	f	330	GLN	2.5
1	k	330	GLN	2.5
1	l	605	GLY	2.5
1	W	36	ILE	2.5
1	h	14	HIS	2.5
1	k	110	THR	2.5
1	C	33	LYS	2.5
1	G	460	TYR	2.5
1	M	397	LYS	2.5
1	R	35	TYR	2.5
1	F	249	TRP	2.5
1	G	143	TRP	2.5
1	J	91	ARG	2.5
1	Z	42	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	U	59	CYS	2.5
1	V	5	GLU	2.5
1	V	328	GLU	2.5
1	X	28	VAL	2.5
1	X	372	GLU	2.5
1	c	143	TRP	2.5
1	j	808	ARG	2.5
1	H	103	GLU	2.5
1	I	41	GLU	2.5
1	L	29	GLU	2.5
1	M	48	VAL	2.5
1	N	41	GLU	2.5
1	Q	683	GLU	2.5
1	c	146	GLU	2.5
1	f	59	CYS	2.5
1	H	83	LEU	2.5
1	O	92	LEU	2.5
1	e	539	LEU	2.5
1	X	68	ASP	2.5
1	X	234	ASN	2.5
1	B	21	GLN	2.5
1	C	154	GLN	2.5
1	H	203	ALA	2.5
1	M	21	GLN	2.5
1	M	145	PHE	2.5
1	N	62	ALA	2.5
1	O	795	PHE	2.5
1	O	32	PRO	2.5
1	P	261	PRO	2.5
1	T	6	ALA	2.5
1	a	795	PHE	2.5
1	f	659	GLN	2.5
1	j	45	PHE	2.5
1	U	111	PRO	2.5
1	c	292	GLY	2.5
1	l	202	GLY	2.5
1	N	621	LYS	2.5
1	R	85	HIS	2.5
1	e	507	ARG	2.5
1	i	177	ARG	2.5
1	j	685	ARG	2.5
1	B	265	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	4	GLU	2.5
1	D	364	GLU	2.5
1	T	18	VAL	2.5
1	T	143	TRP	2.5
1	Y	215	LEU	2.5
1	f	5	GLU	2.5
1	f	48	VAL	2.5
1	F	428	ASN	2.5
1	G	63	ASN	2.5
1	i	171	ASN	2.5
1	E	95	ASP	2.5
1	J	217	ASP	2.5
1	N	255	ASP	2.5
1	W	482	PHE	2.5
1	d	20	ASP	2.5
1	m	97	PHE	2.5
1	C	203	ALA	2.5
1	J	86	ALA	2.5
1	A	804	PRO	2.5
1	D	64	PRO	2.5
1	G	11	PRO	2.5
1	H	330	GLN	2.5
1	L	38	GLN	2.5
1	Q	231	ALA	2.5
1	S	730	ALA	2.5
1	U	125	ALA	2.5
1	Q	362	PRO	2.5
1	b	111	PRO	2.5
1	f	329	GLN	2.5
1	j	815	PRO	2.5
1	m	96	PRO	2.5
1	A	293	LYS	2.5
1	C	529	ILE	2.5
1	J	16	ILE	2.5
1	K	79	GLY	2.5
1	h	7	ILE	2.5
1	B	52	THR	2.5
1	E	34	THR	2.5
1	K	360	ARG	2.5
1	N	318	ARG	2.5
1	Q	34	THR	2.5
1	a	192	THR	2.5

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Mol	Chain	Res	Type	RSRZ
1	d	185	ARG	2.5
1	g	504	ARG	2.5
1	J	17	HIS	2.5
1	O	13	TYR	2.5
1	W	197	LEU	2.5
1	W	227	LEU	2.5
1	X	99	LEU	2.5
1	b	14	HIS	2.5
1	b	537	LEU	2.5
1	g	74	LEU	2.5
1	h	268	LEU	2.5
1	j	83	LEU	2.5
1	m	44	LEU	2.5
1	C	43	VAL	2.5
1	J	423	VAL	2.5
1	T	216	VAL	2.5
1	k	61	VAL	2.5
1	I	418	GLU	2.5
1	J	29	GLU	2.5
1	L	346	GLU	2.5
1	O	485	GLU	2.5
1	U	161	GLU	2.5
1	e	305	GLU	2.5
1	k	5	GLU	2.5
1	l	211	GLU	2.5
1	l	347	GLU	2.5
1	L	171	ASN	2.5
1	L	795	PHE	2.5
1	X	606	PHE	2.5
1	i	97	PHE	2.5
1	A	62	ALA	2.5
1	B	170	GLN	2.5
1	H	86	ALA	2.5
1	A	290	PRO	2.5
1	F	11	PRO	2.5
1	I	101	PRO	2.5
1	M	68	ASP	2.5
1	O	36	ILE	2.5
1	Y	178	ALA	2.5
1	Y	807	ILE	2.5
1	a	8	ILE	2.5
1	f	80	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
1	j	214	ASP	2.5
1	k	691	GLN	2.5
1	T	101	PRO	2.5
1	f	202	GLY	2.5
1	E	174	LEU	2.5
1	E	685	ARG	2.5
1	G	185	ARG	2.5
1	L	74	LEU	2.5
1	P	67	ARG	2.5
1	G	34	THR	2.5
1	T	34	THR	2.5
1	V	126	LEU	2.5
1	Z	192	THR	2.5
1	e	449	SER	2.5
1	A	65	VAL	2.5
1	B	160	VAL	2.5
1	C	13	TYR	2.5
1	H	15	TYR	2.5
1	I	259	HIS	2.5
1	J	138	MET	2.5
1	M	30	VAL	2.5
1	l	17	HIS	2.5
1	K	266	GLU	2.5
1	M	346	GLU	2.5
1	R	347	GLU	2.5
1	W	265	GLU	2.5
1	f	146	GLU	2.5
1	M	129	PHE	2.5
1	V	143	TRP	2.5
1	A	385	ASN	2.5
1	B	220	ILE	2.5
1	P	16	ILE	2.5
1	S	22	ASN	2.5
1	Y	397	LYS	2.5
1	e	16	ILE	2.5
1	g	171	ASN	2.5
1	m	118	ASN	2.5
1	m	293	LYS	2.5
1	E	173	ALA	2.5
1	h	529	ILE	2.5
1	F	111	PRO	2.5
1	K	815	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
1	Q	153	PRO	2.5
1	X	101	PRO	2.5
1	f	32	PRO	2.5
1	C	761	ARG	2.5
1	E	189	GLY	2.5
1	F	44	LEU	2.5
1	F	127	LEU	2.5
1	J	147	GLY	2.5
1	M	147	GLY	2.5
1	P	427	LEU	2.5
1	T	318	ARG	2.5
1	T	340	LEU	2.5
1	U	92	LEU	2.5
1	h	517	LEU	2.5
1	h	537	LEU	2.5
1	i	3	THR	2.5
1	H	459	SER	2.5
1	B	18	VAL	2.5
1	J	160	VAL	2.5
1	X	159	VAL	2.5
1	h	423	VAL	2.5
1	M	13	TYR	2.5
1	U	15	TYR	2.5
1	Y	324	TYR	2.5
1	H	346	GLU	2.4
1	J	146	GLU	2.4
1	O	89	GLU	2.4
1	Y	266	GLU	2.4
1	h	293	LYS	2.4
1	b	109	ILE	2.4
1	C	86	ALA	2.4
1	G	215	LEU	2.4
1	I	330	GLN	2.4
1	N	450	ALA	2.4
1	T	178	ALA	2.4
1	Z	811	ALA	2.4
1	G	362	PRO	2.4
1	N	127	LEU	2.4
1	N	144	LEU	2.4
1	e	94	GLN	2.4
1	f	74	LEU	2.4
1	g	414	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	i	384	GLN	2.4
1	H	82	ARG	2.4
1	I	190	ARG	2.4
1	N	153	PRO	2.4
1	N	461	ARG	2.4
1	O	54	PRO	2.4
1	h	37	ARG	2.4
1	m	11	PRO	2.4
1	m	37	ARG	2.4
1	C	590	ASP	2.4
1	P	255	ASP	2.4
1	F	110	THR	2.4
1	m	166	THR	2.4
1	B	48	VAL	2.4
1	K	65	VAL	2.4
1	U	159	VAL	2.4
1	U	526	VAL	2.4
1	i	643	VAL	2.4
1	A	35	TYR	2.4
1	I	324	TYR	2.4
1	S	58	TYR	2.4
1	X	204	TYR	2.4
1	c	33	LYS	2.4
1	M	156	GLU	2.4
1	N	181	GLU	2.4
1	T	14	HIS	2.4
1	Y	7	ILE	2.4
1	b	211	GLU	2.4
1	d	328	GLU	2.4
1	f	548	GLU	2.4
1	k	17	HIS	2.4
1	D	105	LEU	2.4
1	D	174	LEU	2.4
1	Q	143	TRP	2.4
1	D	685	ARG	2.4
1	F	171	ASN	2.4
1	F	178	ALA	2.4
1	J	62	ALA	2.4
1	Y	99	LEU	2.4
1	Y	810	LEU	2.4
1	f	83	LEU	2.4
1	m	144	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
1	K	171	ASN	2.4
1	M	185	ARG	2.4
1	S	385	ASN	2.4
1	a	21	GLN	2.4
1	d	170	GLN	2.4
1	h	91	ARG	2.4
1	k	154	GLN	2.4
1	l	761	ARG	2.4
1	m	507	ARG	2.4
1	i	96	PRO	2.4
1	k	815	PRO	2.4
1	l	101	PRO	2.4
1	l	148	PRO	2.4
1	N	798	MET	2.4
1	e	605	GLY	2.4
1	f	140	GLY	2.4
1	K	3	THR	2.4
1	T	95	ASP	2.4
1	V	459	SER	2.4
1	W	20	ASP	2.4
1	Z	642	SER	2.4
1	c	20	ASP	2.4
1	e	472	ASP	2.4
1	h	411	ASP	2.4
1	I	160	VAL	2.4
1	P	136	LYS	2.4
1	g	349	VAL	2.4
1	h	30	VAL	2.4
1	O	100	TYR	2.4
1	R	16	ILE	2.4
1	G	29	GLU	2.4
1	G	347	GLU	2.4
1	H	57	HIS	2.4
1	H	85	HIS	2.4
1	L	161	GLU	2.4
1	M	112	LEU	2.4
1	N	266	GLU	2.4
1	P	142	GLU	2.4
1	Q	5	GLU	2.4
1	Y	17	HIS	2.4
1	b	791	GLU	2.4
1	C	729	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	80	GLN	2.4
1	E	154	GLN	2.4
1	g	21	GLN	2.4
1	m	218	ALA	2.4
1	m	685	ARG	2.4
1	Y	64	PRO	2.4
1	k	278	PRO	2.4
1	l	153	PRO	2.4
1	E	605	GLY	2.4
1	C	110	THR	2.4
1	F	224	LYS	2.4
1	N	52	THR	2.4
1	e	293	LYS	2.4
1	B	65	VAL	2.4
1	O	643	VAL	2.4
1	P	18	VAL	2.4
1	V	567	PHE	2.4
1	Z	643	VAL	2.4
1	E	217	ASP	2.4
1	Y	20	ASP	2.4
1	G	427	LEU	2.4
1	M	92	LEU	2.4
1	O	83	LEU	2.4
1	V	58	TYR	2.4
1	V	99	LEU	2.4
1	Z	126	LEU	2.4
1	m	151	TYR	2.4
1	E	59	CYS	2.4
1	A	211	GLU	2.4
1	A	346	GLU	2.4
1	P	346	GLU	2.4
1	W	146	GLU	2.4
1	Y	5	GLU	2.4
1	Z	156	GLU	2.4
1	f	266	GLU	2.4
1	e	452	ARG	2.4
1	f	536	ARG	2.4
1	g	17	HIS	2.4
1	i	689	GLU	2.4
1	k	424	GLU	2.4
1	Q	318	ARG	2.4
1	h	507	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	J	170	GLN	2.4
1	L	1	MET	2.4
1	O	50	MET	2.4
1	T	94	GLN	2.4
1	W	154	GLN	2.4
1	X	170	GLN	2.4
1	b	330	GLN	2.4
1	d	691	GLN	2.4
1	l	113	GLN	2.4
1	A	451	PRO	2.4
1	R	171	ASN	2.4
1	U	249	TRP	2.4
1	Y	544	ASN	2.4
1	Z	143	TRP	2.4
1	F	33	LYS	2.4
1	J	149	GLY	2.4
1	Y	153	PRO	2.4
1	a	149	GLY	2.4
1	e	420	PRO	2.4
1	j	605	GLY	2.4
1	l	147	GLY	2.4
1	L	129	PHE	2.4
1	O	526	VAL	2.4
1	d	3	THR	2.4
1	N	92	LEU	2.4
1	T	83	LEU	2.4
1	J	131	ASP	2.4
1	P	20	ASP	2.4
1	X	695	ASP	2.4
1	G	151	TYR	2.4
1	B	5	GLU	2.4
1	C	156	GLU	2.4
1	O	67	ARG	2.4
1	S	600	ARG	2.4
1	W	346	GLU	2.4
1	f	89	GLU	2.4
1	g	41	GLU	2.4
1	h	416	GLU	2.4
1	j	82	ARG	2.4
1	K	6	ALA	2.4
1	K	677	ALA	2.4
1	P	17	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
1	R	330	GLN	2.4
1	Z	730	ALA	2.4
1	a	88	GLN	2.4
1	g	94	GLN	2.4
1	i	691	GLN	2.4
1	j	338	GLN	2.4
1	A	64	PRO	2.4
1	B	22	ASN	2.4
1	C	171	ASN	2.4
1	E	54	PRO	2.4
1	L	102	GLY	2.4
1	d	171	ASN	2.4
1	g	148	PRO	2.4
1	k	102	GLY	2.4
1	g	97	PHE	2.4
1	h	145	PHE	2.4
1	j	23	SER	2.4
1	A	423	VAL	2.4
1	B	10	ILE	2.4
1	F	160	VAL	2.4
1	G	10	ILE	2.4
1	P	104	VAL	2.4
1	Q	74	LEU	2.4
1	R	48	VAL	2.4
1	S	150	THR	2.4
1	M	537	LEU	2.4
1	T	332	LEU	2.4
1	U	7	ILE	2.4
1	U	242	LEU	2.4
1	V	19	LEU	2.4
1	Z	92	LEU	2.4
1	Z	807	ILE	2.4
1	c	427	LEU	2.4
1	g	99	LEU	2.4
1	i	44	LEU	2.4
1	j	61	VAL	2.4
1	A	185	ARG	2.4
1	D	35	TYR	2.4
1	E	190	ARG	2.4
1	E	472	ASP	2.4
1	G	452	ARG	2.4
1	J	177	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	K	264	TYR	2.4
1	M	461	ARG	2.4
1	Q	128	ASP	2.4
1	R	151	TYR	2.4
1	V	15	TYR	2.4
1	V	177	ARG	2.4
1	h	82	ARG	2.4
1	m	214	ASP	2.4
1	R	798	MET	2.4
1	G	689	GLU	2.4
1	G	756	GLU	2.4
1	I	146	GLU	2.4
1	O	86	ALA	2.4
1	O	347	GLU	2.4
1	R	683	GLU	2.4
1	Y	510	ALA	2.4
1	Z	211	GLU	2.4
1	a	156	GLU	2.4
1	a	372	GLU	2.4
1	b	146	GLU	2.4
1	k	677	ALA	2.4
1	A	330	GLN	2.3
1	B	188	LYS	2.4
1	Q	33	LYS	2.4
1	Y	348	LYS	2.4
1	a	154	GLN	2.3
1	b	169	LYS	2.4
1	m	113	GLN	2.3
1	E	57	HIS	2.3
1	P	259	HIS	2.3
1	X	17	HIS	2.3
1	M	420	PRO	2.3
1	Q	64	PRO	2.3
1	V	47	PRO	2.3
1	X	148	PRO	2.3
1	a	117	PRO	2.3
1	V	196	TRP	2.3
1	X	249	TRP	2.3
1	b	202	GLY	2.3
1	b	588	PHE	2.3
1	e	118	ASN	2.3
1	f	278	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	200	SER	2.3
1	A	44	LEU	2.3
1	G	90	ILE	2.3
1	H	7	ILE	2.3
1	N	529	ILE	2.3
1	Q	127	LEU	2.3
1	b	16	ILE	2.3
1	c	10	ILE	2.3
1	d	168	ILE	2.3
1	i	77	ILE	2.3
1	L	48	VAL	2.3
1	g	192	THR	2.3
1	h	78	THR	2.3
1	m	53	VAL	2.3
1	R	600	ARG	2.3
1	a	477	ARG	2.3
1	l	185	ARG	2.3
1	A	58	TYR	2.3
1	I	138	MET	2.3
1	X	35	TYR	2.3
1	Y	151	TYR	2.3
1	a	58	TYR	2.3
1	d	1	MET	2.3
1	m	1	MET	2.3
1	E	87	ASP	2.3
1	J	255	ASP	2.3
1	N	674	LYS	2.3
1	O	95	ASP	2.3
1	S	33	LYS	2.3
1	U	217	ASP	2.3
1	E	677	ALA	2.3
1	N	231	ALA	2.3
1	O	231	ALA	2.3
1	Y	257	GLU	2.3
1	c	330	GLN	2.3
1	d	5	GLU	2.3
1	d	780	GLU	2.3
1	e	757	ALA	2.3
1	f	607	GLU	2.3
1	h	89	GLU	2.3
1	h	372	GLU	2.3
1	i	93	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	k	266	GLU	2.3
1	m	161	GLU	2.3
1	m	346	GLU	2.3
1	A	111	PRO	2.3
1	A	292	GLY	2.3
1	C	26	SER	2.3
1	E	8	ILE	2.3
1	H	54	PRO	2.3
1	J	144	LEU	2.3
1	K	102	GLY	2.3
1	L	242	LEU	2.3
1	M	102	GLY	2.3
1	P	144	LEU	2.3
1	S	99	LEU	2.3
1	W	99	LEU	2.3
1	Y	101	PRO	2.3
1	Z	189	GLY	2.3
1	Z	751	LEU	2.3
1	k	47	PRO	2.3
1	O	63	ASN	2.3
1	N	28	VAL	2.3
1	N	196	TRP	2.3
1	V	249	TRP	2.3
1	g	249	TRP	2.3
1	l	171	ASN	2.3
1	K	52	THR	2.3
1	N	762	VAL	2.3
1	Q	3	THR	2.3
1	F	50	MET	2.3
1	N	685	ARG	2.3
1	Z	50	MET	2.3
1	g	279	ARG	2.3
1	e	136	LYS	2.3
1	Z	204	TYR	2.3
1	m	165	ALA	2.3
1	A	146	GLU	2.3
1	B	194	GLU	2.3
1	F	68	ASP	2.3
1	I	691	GLN	2.3
1	L	156	GLU	2.3
1	Q	130	GLU	2.3
1	R	164	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	R	754	GLU	2.3
1	V	305	GLU	2.3
1	X	346	GLU	2.3
1	c	254	GLN	2.3
1	d	89	GLU	2.3
1	e	156	GLU	2.3
1	g	156	GLU	2.3
1	i	38	GLN	2.3
1	D	97	PHE	2.3
1	h	427	LEU	2.3
1	i	36	ILE	2.3
1	i	529	ILE	2.3
1	j	168	ILE	2.3
1	j	529	ILE	2.3
1	S	117	PRO	2.3
1	a	64	PRO	2.3
1	d	459	SER	2.3
1	j	32	PRO	2.3
1	b	22	ASN	2.3
1	f	157	VAL	2.3
1	i	81	VAL	2.3
1	j	157	VAL	2.3
1	m	51	VAL	2.3
1	C	249	TRP	2.3
1	D	42	ARG	2.3
1	G	42	ARG	2.3
1	G	300	ARG	2.3
1	I	477	ARG	2.3
1	J	621	LYS	2.3
1	M	188	LYS	2.3
1	P	188	LYS	2.3
1	S	84	ARG	2.3
1	U	37	ARG	2.3
1	X	712	MET	2.3
1	Z	59	CYS	2.3
1	d	9	ARG	2.3
1	g	507	ARG	2.3
1	D	324	TYR	2.3
1	L	151	TYR	2.3
1	F	112	LEU	2.3
1	P	127	LEU	2.3
1	R	752	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	X	365	TYR	2.3
1	g	125	ALA	2.3
1	C	90	ILE	2.3
1	L	338	GLN	2.3
1	T	330	GLN	2.3
1	U	75	PHE	2.3
1	i	414	LEU	2.3
1	M	146	GLU	2.3
1	T	7	ILE	2.3
1	c	424	GLU	2.3
1	k	338	GLN	2.3
1	N	214	ASP	2.3
1	A	98	PRO	2.3
1	G	54	PRO	2.3
1	L	153	PRO	2.3
1	M	117	PRO	2.3
1	W	101	PRO	2.3
1	i	202	GLY	2.3
1	l	815	PRO	2.3
1	m	64	PRO	2.3
1	C	191	VAL	2.3
1	I	57	HIS	2.3
1	M	57	HIS	2.3
1	S	157	VAL	2.3
1	c	263	VAL	2.3
1	B	34	THR	2.3
1	G	171	ASN	2.3
1	Z	52	THR	2.3
1	e	133	ASN	2.3
1	A	67	ARG	2.3
1	G	188	LYS	2.3
1	J	249	TRP	2.3
1	K	132	LYS	2.3
1	O	293	LYS	2.3
1	T	49	ARG	2.3
1	X	507	ARG	2.3
1	h	808	ARG	2.3
1	l	143	TRP	2.3
1	A	112	LEU	2.3
1	O	810	LEU	2.3
1	T	539	LEU	2.3
1	c	363	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	F	45	PHE	2.3
1	Q	752	ALA	2.3
1	e	8	ILE	2.3
1	g	90	ILE	2.3
1	i	15	TYR	2.3
1	m	145	PHE	2.3
1	M	88	GLN	2.3
1	Q	659	GLN	2.3
1	j	330	GLN	2.3
1	O	41	GLU	2.3
1	Q	266	GLU	2.3
1	V	156	GLU	2.3
1	i	146	GLU	2.3
1	i	485	GLU	2.3
1	X	23	SER	2.3
1	e	459	SER	2.3
1	h	637	SER	2.3
1	C	354	GLY	2.3
1	H	51	VAL	2.3
1	H	111	PRO	2.3
1	V	20	ASP	2.3
1	V	202	GLY	2.3
1	X	639	ASP	2.3
1	Z	54	PRO	2.3
1	a	214	ASP	2.3
1	a	159	VAL	2.3
1	f	101	PRO	2.3
1	g	381	PRO	2.3
1	h	526	VAL	2.3
1	i	148	PRO	2.3
1	j	635	VAL	2.3
1	l	48	VAL	2.3
1	K	621	LYS	2.3
1	a	169	LYS	2.3
1	Z	118	ASN	2.3
1	b	407	MET	2.3
1	d	397	LYS	2.3
1	A	22	ASN	2.3
1	A	587	THR	2.3
1	B	118	ASN	2.3
1	G	687	ARG	2.3
1	I	461	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	d	27	ARG	2.3
1	k	56	ARG	2.3
1	l	63	ASN	2.3
1	K	143	TRP	2.3
1	B	238	LEU	2.3
1	D	44	LEU	2.3
1	P	539	LEU	2.3
1	d	74	LEU	2.3
1	e	19	LEU	2.3
1	k	19	LEU	2.3
1	l	414	LEU	2.3
1	B	163	ILE	2.3
1	N	7	ILE	2.3
1	P	7	ILE	2.3
1	W	77	ILE	2.3
1	X	45	PHE	2.3
1	V	94	GLN	2.3
1	d	330	GLN	2.3
1	h	21	GLN	2.3
1	j	88	GLN	2.3
1	k	170	GLN	2.3
1	B	607	GLU	2.3
1	M	797	GLU	2.3
1	N	210	GLU	2.3
1	T	607	GLU	2.3
1	V	760	GLU	2.3
1	X	778	GLU	2.3
1	g	346	GLU	2.3
1	k	449	SER	2.3
1	A	51	VAL	2.3
1	A	374	VAL	2.3
1	C	30	VAL	2.3
1	G	55	PRO	2.3
1	J	159	VAL	2.3
1	M	31	GLY	2.3
1	M	43	VAL	2.3
1	N	61	VAL	2.3
1	R	33	LYS	2.3
1	S	134	GLY	2.3
1	V	33	LYS	2.3
1	V	216	VAL	2.3
1	Z	159	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	d	101	PRO	2.3
1	g	117	PRO	2.3
1	g	423	VAL	2.3
1	h	25	VAL	2.3
1	B	49	ARG	2.3
1	B	300	ARG	2.3
1	J	199	ARG	2.3
1	Q	477	ARG	2.3
1	X	774	ARG	2.3
1	Z	199	ARG	2.3
1	a	597	ARG	2.3
1	e	255	ASP	2.3
1	h	504	ARG	2.3
1	C	14	HIS	2.2
1	O	85	HIS	2.2
1	e	57	HIS	2.2
1	i	133	ASN	2.2
1	B	99	LEU	2.2
1	F	116	LEU	2.2
1	g	517	LEU	2.2
1	j	92	LEU	2.2
1	j	144	LEU	2.2
1	A	249	TRP	2.2
1	A	77	ILE	2.2
1	H	8	ILE	2.2
1	a	203	ALA	2.2
1	b	752	ALA	2.2
1	c	178	ALA	2.2
1	B	35	TYR	2.2
1	D	365	TYR	2.2
1	G	13	TYR	2.2
1	I	58	TYR	2.2
1	U	330	GLN	2.2
1	Z	170	GLN	2.2
1	B	59	CYS	2.2
1	J	607	GLU	2.2
1	J	767	GLU	2.2
1	Y	418	GLU	2.2
1	b	59	CYS	2.2
1	B	808	ARG	2.2
1	F	64	PRO	2.2
1	G	153	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	H	96	PRO	2.2
1	U	685	ARG	2.2
1	V	43	VAL	2.2
1	a	50	MET	2.2
1	a	49	ARG	2.2
1	a	804	PRO	2.2
1	d	61	VAL	2.2
1	f	185	ARG	2.2
1	g	536	ARG	2.2
1	i	64	PRO	2.2
1	k	48	VAL	2.2
1	l	798	MET	2.2
1	J	690	ARG	2.2
1	N	300	ARG	2.2
1	P	49	ARG	2.2
1	C	217	ASP	2.2
1	E	127	LEU	2.2
1	E	262	ASP	2.2
1	Q	135	ASP	2.2
1	T	52	THR	2.2
1	U	268	LEU	2.2
1	e	87	ASP	2.2
1	m	141	ASP	2.2
1	M	14	HIS	2.2
1	P	63	ASN	2.2
1	k	24	ASN	2.2
1	l	57	HIS	2.2
1	L	8	ILE	2.2
1	O	97	PHE	2.2
1	a	109	ILE	2.2
1	b	606	PHE	2.2
1	m	16	ILE	2.2
1	E	143	TRP	2.2
1	d	93	ALA	2.2
1	m	125	ALA	2.2
1	B	113	GLN	2.2
1	P	100	TYR	2.2
1	T	136	LYS	2.2
1	X	330	GLN	2.2
1	Y	204	TYR	2.2
1	Z	15	TYR	2.2
1	d	154	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	l	1	MET	2.2
1	C	81	VAL	2.2
1	I	265	GLU	2.2
1	K	710	GLU	2.2
1	L	485	GLU	2.2
1	O	43	VAL	2.2
1	O	146	GLU	2.2
1	O	364	GLU	2.2
1	V	211	GLU	2.2
1	W	211	GLU	2.2
1	Z	81	VAL	2.2
1	b	390	VAL	2.2
1	e	191	VAL	2.2
1	f	103	GLU	2.2
1	f	305	GLU	2.2
1	l	103	GLU	2.2
1	B	804	PRO	2.2
1	G	101	PRO	2.2
1	I	12	PRO	2.2
1	J	814	GLY	2.2
1	K	427	LEU	2.2
1	K	810	LEU	2.2
1	N	339	PRO	2.2
1	S	268	LEU	2.2
1	S	420	PRO	2.2
1	T	276	LEU	2.2
1	X	205	LEU	2.2
1	X	427	LEU	2.2
1	a	238	LEU	2.2
1	a	268	LEU	2.2
1	f	537	LEU	2.2
1	k	537	LEU	2.2
1	m	686	GLY	2.2
1	H	182	CYS	2.2
1	B	131	ASP	2.2
1	N	87	ASP	2.2
1	Z	152	ILE	2.2
1	T	795	PHE	2.2
1	e	24	ASN	2.2
1	h	118	ASN	2.2
1	O	259	HIS	2.2
1	e	14	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	S	143	TRP	2.2
1	Y	143	TRP	2.2
1	m	33	LYS	2.2
1	C	311	GLN	2.2
1	W	113	GLN	2.2
1	a	330	GLN	2.2
1	c	691	GLN	2.2
1	H	324	TYR	2.2
1	M	50	MET	2.2
1	S	772	TYR	2.2
1	k	204	TYR	2.2
1	B	260	VAL	2.2
1	C	199	ARG	2.2
1	D	18	VAL	2.2
1	D	83	LEU	2.2
1	D	638	VAL	2.2
1	E	474	ARG	2.2
1	F	49	ARG	2.2
1	H	268	LEU	2.2
1	O	127	LEU	2.2
1	S	48	VAL	2.2
1	V	212	VAL	2.2
1	X	43	VAL	2.2
1	a	67	ARG	2.2
1	h	144	LEU	2.2
1	j	452	ARG	2.2
1	k	67	ARG	2.2
1	l	685	ARG	2.2
1	Z	195	GLU	2.2
1	Z	346	GLU	2.2
1	d	372	GLU	2.2
1	j	683	GLU	2.2
1	m	61	VAL	2.2
1	R	278	PRO	2.2
1	Z	96	PRO	2.2
1	a	79	GLY	2.2
1	b	815	PRO	2.2
1	H	166	THR	2.2
1	R	3	THR	2.2
1	U	90	ILE	2.2
1	V	8	ILE	2.2
1	X	90	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	Y	34	THR	2.2
1	Y	166	THR	2.2
1	c	252	THR	2.2
1	g	380	ILE	2.2
1	h	3	THR	2.2
1	l	8	ILE	2.2
1	h	547	PHE	2.2
1	K	63	ASN	2.2
1	M	131	ASP	2.2
1	S	95	ASP	2.2
1	S	108	ASP	2.2
1	U	87	ASP	2.2
1	V	621	LYS	2.2
1	X	809	ASP	2.2
1	d	24	ASN	2.2
1	h	262	ASP	2.2
1	i	214	ASP	2.2
1	k	809	ASP	2.2
1	H	14	HIS	2.2
1	J	85	HIS	2.2
1	Z	122	HIS	2.2
1	Y	730	ALA	2.2
1	i	249	TRP	2.2
1	A	459	SER	2.2
1	B	330	GLN	2.2
1	A	9	ARG	2.2
1	A	19	LEU	2.2
1	A	685	ARG	2.2
1	C	360	ARG	2.2
1	C	687	ARG	2.2
1	D	238	LEU	2.2
1	D	449	SER	2.2
1	F	80	GLN	2.2
1	V	384	GLN	2.2
1	g	138	MET	2.2
1	F	74	LEU	2.2
1	G	144	LEU	2.2
1	H	151	TYR	2.2
1	H	507	ARG	2.2
1	I	427	LEU	2.2
1	J	507	ARG	2.2
1	N	539	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	O	268	LEU	2.2
1	S	177	ARG	2.2
1	U	324	TYR	2.2
1	a	199	ARG	2.2
1	d	414	LEU	2.2
1	d	539	LEU	2.2
1	f	9	ARG	2.2
1	g	318	ARG	2.2
1	h	543	TYR	2.2
1	i	151	TYR	2.2
1	H	61	VAL	2.2
1	N	423	VAL	2.2
1	R	43	VAL	2.2
1	X	48	VAL	2.2
1	C	12	PRO	2.2
1	E	181	GLU	2.2
1	E	319	GLY	2.2
1	E	803	GLY	2.2
1	F	194	GLU	2.2
1	I	156	GLU	2.2
1	P	147	GLY	2.2
1	R	96	PRO	2.2
1	T	211	GLU	2.2
1	W	7	ILE	2.2
1	X	16	ILE	2.2
1	Z	804	PRO	2.2
1	g	103	GLU	2.2
1	D	90	ILE	2.2
1	b	8	ILE	2.2
1	k	101	PRO	2.2
1	P	52	THR	2.2
1	S	52	THR	2.2
1	i	293	LYS	2.2
1	A	6	ALA	2.2
1	F	809	ASP	2.2
1	J	672	ALA	2.2
1	L	68	ASP	2.2
1	P	95	ASP	2.2
1	Q	178	ALA	2.2
1	j	510	ALA	2.2
1	k	39	ASP	2.2
1	E	215	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	N	350	SER	2.2
1	O	49	ARG	2.2
1	P	585	SER	2.2
1	R	659	GLN	2.2
1	S	23	SER	2.2
1	Z	459	SER	2.2
1	h	636	SER	2.2
1	m	83	LEU	2.2
1	l	9	ARG	2.2
1	D	81	VAL	2.2
1	N	526	VAL	2.2
1	V	159	VAL	2.2
1	Z	406	TYR	2.2
1	a	35	TYR	2.2
1	B	90	ILE	2.2
1	B	152	ILE	2.2
1	N	10	ILE	2.2
1	Q	7	ILE	2.2
1	S	77	ILE	2.2
1	B	148	PRO	2.2
1	C	607	GLU	2.2
1	E	424	GLU	2.2
1	F	278	PRO	2.2
1	P	89	GLU	2.2
1	Q	12	PRO	2.2
1	S	101	PRO	2.2
1	S	153	PRO	2.2
1	T	181	GLU	2.2
1	U	189	GLY	2.2
1	V	97	PHE	2.2
1	V	362	PRO	2.2
1	Y	769	GLU	2.2
1	Z	148	PRO	2.2
1	Z	795	PHE	2.2
1	b	153	PRO	2.2
1	d	47	PRO	2.2
1	e	101	PRO	2.2
1	g	101	PRO	2.2
1	g	189	GLY	2.2
1	h	362	PRO	2.2
1	i	11	PRO	2.2
1	j	211	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	E	397	LYS	2.2
1	Q	110	THR	2.2
1	U	180	LYS	2.2
1	X	34	THR	2.2
1	d	34	THR	2.2
1	f	3	THR	2.2
1	F	238	LEU	2.2
1	M	1	MET	2.2
1	V	63	ASN	2.2
1	X	544	ASN	2.2
1	P	810	LEU	2.2
1	V	238	LEU	2.2
1	V	539	LEU	2.2
1	b	50	MET	2.2
1	b	74	LEU	2.2
1	i	6	ALA	2.1
1	i	86	ALA	2.1
1	l	677	ALA	2.1
1	E	761	ARG	2.1
1	F	449	SER	2.1
1	I	37	ARG	2.1
1	I	690	ARG	2.1
1	J	56	ARG	2.1
1	K	68	ASP	2.1
1	N	27	ARG	2.1
1	N	56	ARG	2.1
1	N	113	GLN	2.1
1	O	113	GLN	2.1
1	O	729	ARG	2.1
1	P	135	ASP	2.1
1	P	809	ASP	2.1
1	V	68	ASP	2.1
1	P	330	GLN	2.1
1	R	338	GLN	2.1
1	X	177	ARG	2.1
1	X	360	ARG	2.1
1	Z	185	ARG	2.1
1	a	14	HIS	2.1
1	b	185	ARG	2.1
1	b	507	ARG	2.1
1	m	691	GLN	2.1
1	A	196	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
1	Z	249	TRP	2.1
1	i	196	TRP	2.1
1	E	35	TYR	2.1
1	Q	48	VAL	2.1
1	R	8	ILE	2.1
1	X	81	VAL	2.1
1	g	104	VAL	2.1
1	j	643	VAL	2.1
1	A	54	PRO	2.1
1	H	12	PRO	2.1
1	I	33	LYS	2.1
1	L	397	LYS	2.1
1	M	153	PRO	2.1
1	R	54	PRO	2.1
1	V	96	PRO	2.1
1	X	129	PHE	2.1
1	Z	97	PHE	2.1
1	c	101	PRO	2.1
1	d	153	PRO	2.1
1	f	47	PRO	2.1
1	j	64	PRO	2.1
1	k	683	GLU	2.1
1	l	32	PRO	2.1
1	B	528	THR	2.1
1	m	3	THR	2.1
1	D	537	LEU	2.1
1	R	1	MET	2.1
1	W	250	LEU	2.1
1	g	144	LEU	2.1
1	E	813	ALA	2.1
1	M	6	ALA	2.1
1	P	730	ALA	2.1
1	m	86	ALA	2.1
1	E	318	ARG	2.1
1	M	82	ARG	2.1
1	M	536	ARG	2.1
1	R	9	ARG	2.1
1	S	91	ARG	2.1
1	U	461	ARG	2.1
1	W	477	ARG	2.1
1	a	685	ARG	2.1
1	T	88	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	g	630	GLN	2.1
1	k	329	GLN	2.1
1	X	87	ASP	2.1
1	Y	753	ILE	2.1
1	c	8	ILE	2.1
1	c	291	ASP	2.1
1	P	51	VAL	2.1
1	R	73	VAL	2.1
1	V	568	VAL	2.1
1	d	7	ILE	2.1
1	d	196	TRP	2.1
1	g	143	TRP	2.1
1	B	58	TYR	2.1
1	B	588	PHE	2.1
1	I	795	PHE	2.1
1	V	13	TYR	2.1
1	W	117	PRO	2.1
1	W	278	PRO	2.1
1	W	362	PRO	2.1
1	b	756	GLU	2.1
1	d	55	PRO	2.1
1	g	347	GLU	2.1
1	h	738	GLU	2.1
1	i	55	PRO	2.1
1	i	319	GLY	2.1
1	i	803	GLY	2.1
1	A	342	GLU	2.1
1	C	266	GLU	2.1
1	O	5	GLU	2.1
1	M	52	THR	2.1
1	M	528	THR	2.1
1	C	268	LEU	2.1
1	h	123	LEU	2.1
1	H	67	ARG	2.1
1	I	27	ARG	2.1
1	R	544	ASN	2.1
1	Y	752	ALA	2.1
1	a	452	ARG	2.1
1	e	49	ARG	2.1
1	i	690	ARG	2.1
1	j	459	SER	2.1
1	c	168	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	d	16	ILE	2.1
1	f	529	ILE	2.1
1	i	10	ILE	2.1
1	A	131	ASP	2.1
1	G	136	LYS	2.1
1	G	157	VAL	2.1
1	L	114	VAL	2.1
1	Q	57	HIS	2.1
1	U	51	VAL	2.1
1	h	68	ASP	2.1
1	i	17	HIS	2.1
1	k	423	VAL	2.1
1	i	262	ASP	2.1
1	M	15	TYR	2.1
1	S	543	TYR	2.1
1	W	35	TYR	2.1
1	Z	151	TYR	2.1
1	a	13	TYR	2.1
1	j	15	TYR	2.1
1	R	147	GLY	2.1
1	i	134	GLY	2.1
1	j	686	GLY	2.1
1	Z	278	PRO	2.1
1	e	54	PRO	2.1
1	k	148	PRO	2.1
1	m	59	CYS	2.1
1	E	689	GLU	2.1
1	K	127	LEU	2.1
1	L	344	GLU	2.1
1	L	800	GLU	2.1
1	N	215	LEU	2.1
1	N	337	LEU	2.1
1	N	427	LEU	2.1
1	N	689	GLU	2.1
1	Q	756	GLU	2.1
1	R	810	LEU	2.1
1	S	19	LEU	2.1
1	X	418	GLU	2.1
1	Y	83	LEU	2.1
1	e	346	GLU	2.1
1	g	266	GLU	2.1
1	i	103	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	i	537	LEU	2.1
1	i	539	LEU	2.1
1	m	607	GLU	2.1
1	K	407	MET	2.1
1	L	110	THR	2.1
1	O	252	THR	2.1
1	Q	150	THR	2.1
1	b	3	THR	2.1
1	B	185	ARG	2.1
1	L	49	ARG	2.1
1	L	279	ARG	2.1
1	U	536	ARG	2.1
1	h	649	ARG	2.1
1	i	477	ARG	2.1
1	R	596	ALA	2.1
1	a	510	ALA	2.1
1	C	133	ASN	2.1
1	H	109	ILE	2.1
1	H	163	ILE	2.1
1	T	16	ILE	2.1
1	X	168	ILE	2.1
1	d	10	ILE	2.1
1	g	7	ILE	2.1
1	i	385	ASN	2.1
1	B	397	LYS	2.1
1	D	691	GLN	2.1
1	G	80	GLN	2.1
1	I	124	LYS	2.1
1	I	293	LYS	2.1
1	U	94	GLN	2.1
1	U	254	GLN	2.1
1	a	113	GLN	2.1
1	l	659	GLN	2.1
1	G	212	VAL	2.1
1	N	97	PHE	2.1
1	Q	73	VAL	2.1
1	Q	157	VAL	2.1
1	Z	349	VAL	2.1
1	a	81	VAL	2.1
1	l	795	PHE	2.1
1	m	81	VAL	2.1
1	F	17	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	483	GLY	2.1
1	D	143	TRP	2.1
1	H	127	LEU	2.1
1	J	95	ASP	2.1
1	M	809	ASP	2.1
1	Q	147	GLY	2.1
1	R	196	TRP	2.1
1	e	99	LEU	2.1
1	f	87	ASP	2.1
1	f	95	ASP	2.1
1	g	58	TYR	2.1
1	h	147	GLY	2.1
1	H	798	MET	2.1
1	J	148	PRO	2.1
1	P	804	PRO	2.1
1	W	98	PRO	2.1
1	Z	381	PRO	2.1
1	a	339	PRO	2.1
1	i	32	PRO	2.1
1	C	346	GLU	2.1
1	E	225	THR	2.1
1	K	150	THR	2.1
1	O	305	GLU	2.1
1	P	146	GLU	2.1
1	P	266	GLU	2.1
1	Y	156	GLU	2.1
1	k	3	THR	2.1
1	l	769	GLU	2.1
1	L	190	ARG	2.1
1	X	236	ARG	2.1
1	f	507	ARG	2.1
1	h	49	ARG	2.1
1	k	9	ARG	2.1
1	J	90	ILE	2.1
1	K	10	ILE	2.1
1	O	46	ALA	2.1
1	Q	152	ILE	2.1
1	D	33	LYS	2.1
1	U	62	ALA	2.1
1	b	621	LYS	2.1
1	e	188	LYS	2.1
1	k	33	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	m	348	LYS	2.1
1	B	254	GLN	2.1
1	C	329	GLN	2.1
1	F	338	GLN	2.1
1	R	118	ASN	2.1
1	V	118	ASN	2.1
1	Y	88	GLN	2.1
1	e	330	GLN	2.1
1	f	21	GLN	2.1
1	l	145	PHE	2.1
1	h	260	VAL	2.1
1	l	423	VAL	2.1
1	C	276	LEU	2.1
1	N	268	LEU	2.1
1	c	276	LEU	2.1
1	m	537	LEU	2.1
1	B	85	HIS	2.1
1	X	85	HIS	2.1
1	m	85	HIS	2.1
1	H	686	GLY	2.1
1	K	772	TYR	2.1
1	P	264	TYR	2.1
1	a	15	TYR	2.1
1	m	407	MET	2.1
1	M	87	ASP	2.1
1	S	131	ASP	2.1
1	a	196	TRP	2.1
1	b	64	PRO	2.1
1	i	47	PRO	2.1
1	j	96	PRO	2.1
1	J	150	THR	2.1
1	L	5	GLU	2.1
1	M	683	GLU	2.1
1	O	166	THR	2.1
1	X	52	THR	2.1
1	f	644	GLU	2.1
1	g	3	THR	2.1
1	g	161	GLU	2.1
1	h	530	GLU	2.1
1	j	424	GLU	2.1
1	k	103	GLU	2.1
1	F	9	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	P	507	ARG	2.1
1	S	623	ARG	2.1
1	Y	300	ARG	2.1
1	a	536	ARG	2.1
1	h	67	ARG	2.1
1	m	230	ARG	2.1
1	G	107	LYS	2.1
1	G	168	ILE	2.1
1	I	109	ILE	2.1
1	K	77	ILE	2.1
1	M	59	CYS	2.1
1	O	7	ILE	2.1
1	P	132	LYS	2.1
1	S	59	CYS	2.1
1	S	621	LYS	2.1
1	T	60	ILE	2.1
1	W	59	CYS	2.1
1	j	90	ILE	2.1
1	m	303	LYS	2.1
1	A	125	ALA	2.1
1	B	125	ALA	2.1
1	E	757	ALA	2.1
1	F	450	ALA	2.1
1	G	93	ALA	2.1
1	N	353	ALA	2.1
1	S	6	ALA	2.1
1	C	45	PHE	2.1
1	G	495	PHE	2.1
1	E	133	ASN	2.1
1	O	338	GLN	2.1
1	M	423	VAL	2.1
1	Q	118	ASN	2.1
1	Q	133	ASN	2.1
1	X	88	GLN	2.1
1	d	80	GLN	2.1
1	g	428	ASN	2.1
1	m	170	GLN	2.1
1	F	144	LEU	2.1
1	G	238	LEU	2.1
1	K	74	LEU	2.1
1	V	526	VAL	2.1
1	X	238	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	b	268	LEU	2.1
1	c	61	VAL	2.1
1	i	423	VAL	2.1
1	i	1	MET	2.1
1	i	407	MET	2.1
1	G	17	HIS	2.0
1	P	13	TYR	2.0
1	U	14	HIS	2.0
1	Z	605	GLY	2.0
1	h	102	GLY	2.0
1	l	149	GLY	2.0
1	A	420	PRO	2.0
1	M	484	PRO	2.0
1	O	117	PRO	2.0
1	R	362	PRO	2.0
1	j	111	PRO	2.0
1	A	649	ARG	2.0
1	D	262	ASP	2.0
1	L	41	GLU	2.0
1	L	84	ARG	2.0
1	M	37	ARG	2.0
1	M	729	ARG	2.0
1	Q	600	ARG	2.0
1	U	257	GLU	2.0
1	W	360	ARG	2.0
1	W	33	LYS	2.0
1	W	485	GLU	2.0
1	a	78	THR	2.0
1	b	37	ARG	2.0
1	b	536	ARG	2.0
1	g	452	ARG	2.0
1	g	472	ASP	2.0
1	h	119	THR	2.0
1	h	477	ARG	2.0
1	i	67	ARG	2.0
1	j	255	ASP	2.0
1	S	257	GLU	2.0
1	c	380	ILE	2.0
1	f	723	LYS	2.0
1	E	93	ALA	2.0
1	I	672	ALA	2.0
1	Q	711	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
1	J	75	PHE	2.0
1	P	129	PHE	2.0
1	T	200	SER	2.0
1	a	75	PHE	2.0
1	h	495	PHE	2.0
1	l	495	PHE	2.0
1	D	116	LEU	2.0
1	G	92	LEU	2.0
1	I	59	CYS	2.0
1	M	160	VAL	2.0
1	M	170	GLN	2.0
1	O	21	GLN	2.0
1	P	92	LEU	2.0
1	T	92	LEU	2.0
1	V	276	LEU	2.0
1	U	325	VAL	2.0
1	U	641	GLN	2.0
1	V	104	VAL	2.0
1	V	641	GLN	2.0
1	W	170	GLN	2.0
1	Y	113	GLN	2.0
1	b	164	GLN	2.0
1	j	539	LEU	2.0
1	C	160	VAL	2.0
1	G	65	VAL	2.0
1	c	157	VAL	2.0
1	i	53	VAL	2.0
1	C	118	ASN	2.0
1	T	118	ASN	2.0
1	a	63	ASN	2.0
1	A	79	GLY	2.0
1	G	147	GLY	2.0
1	I	686	GLY	2.0
1	R	79	GLY	2.0
1	e	202	GLY	2.0
1	i	79	GLY	2.0
1	B	151	TYR	2.0
1	F	32	PRO	2.0
1	A	16	ILE	2.0
1	B	685	ARG	2.0
1	G	552	ARG	2.0
1	J	188	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
1	K	55	PRO	2.0
1	L	32	PRO	2.0
1	N	12	PRO	2.0
1	N	111	PRO	2.0
1	O	55	PRO	2.0
1	l	13	TYR	2.0
1	X	109	ILE	2.0
1	X	397	LYS	2.0
1	Y	690	ARG	2.0
1	Z	9	ARG	2.0
1	a	91	ARG	2.0
1	b	36	ILE	2.0
1	g	456	ARG	2.0
1	i	279	ARG	2.0
1	i	536	ARG	2.0
1	i	621	LYS	2.0
1	l	52	THR	2.0
1	E	161	GLU	2.0
1	a	809	ASP	2.0
1	h	156	GLU	2.0
1	h	376	GLU	2.0
1	i	342	GLU	2.0
1	i	416	GLU	2.0
1	l	20	ASP	2.0
1	B	145	PHE	2.0
1	D	250	LEU	2.0
1	F	226	ALA	2.0
1	J	673	ALA	2.0
1	U	308	PHE	2.0
1	m	795	PHE	2.0
1	R	144	LEU	2.0
1	f	144	LEU	2.0
1	i	92	LEU	2.0
1	j	99	LEU	2.0
1	E	212	VAL	2.0
1	I	48	VAL	2.0
1	K	154	GLN	2.0
1	L	423	VAL	2.0
1	M	38	GLN	2.0
1	T	160	VAL	2.0
1	Z	191	VAL	2.0
1	Z	260	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	g	691	GLN	2.0
1	C	370	LYS	2.0
1	E	362	PRO	2.0
1	F	452	ARG	2.0
1	F	686	GLY	2.0
1	L	132	LYS	2.0
1	L	804	PRO	2.0
1	M	35	TYR	2.0
1	M	452	ARG	2.0
1	P	55	PRO	2.0
1	Q	77	ILE	2.0
1	Q	761	ARG	2.0
1	T	169	LYS	2.0
1	b	79	GLY	2.0
1	g	49	ARG	2.0
1	h	134	GLY	2.0
1	h	149	GLY	2.0
1	h	319	GLY	2.0
1	F	117	PRO	2.0
1	M	815	PRO	2.0
1	N	8	ILE	2.0
1	W	471	TYR	2.0
1	Y	8	ILE	2.0
1	Y	32	PRO	2.0
1	Y	96	PRO	2.0
1	Z	7	ILE	2.0
1	Z	55	PRO	2.0
1	a	16	ILE	2.0
1	g	77	ILE	2.0
1	g	100	TYR	2.0
1	h	15	TYR	2.0
1	h	163	ILE	2.0
1	h	656	ARG	2.0
1	i	12	PRO	2.0
1	i	527	ILE	2.0
1	E	85	HIS	2.0
1	e	3	THR	2.0
1	h	52	THR	2.0
1	m	78	THR	2.0
1	B	363	LEU	2.0
1	O	156	GLU	2.0
1	S	126	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
1	U	332	LEU	2.0
1	Y	539	LEU	2.0
1	Y	639	ASP	2.0
1	Y	694	LEU	2.0
1	Z	482	PHE	2.0
1	f	518	LEU	2.0
1	g	644	GLU	2.0
1	i	5	GLU	2.0
1	j	161	GLU	2.0
1	i	231	ALA	2.0
1	i	255	ASP	2.0
1	j	95	ASP	2.0
1	j	427	LEU	2.0
1	E	62	ALA	2.0
1	H	307	SER	2.0
1	N	6	ALA	2.0
1	Q	23	SER	2.0
1	T	231	ALA	2.0
1	c	345	SER	2.0
1	h	203	ALA	2.0
1	S	61	VAL	2.0
1	a	65	VAL	2.0
1	h	51	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.