



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 01:41 PM UTC

PDB ID : 1TZN / pdb_00001tzn
Title : Crystal Structure of the Anthrax Toxin Protective Antigen Heptameric Pre-pore bound to the VWA domain of CMG2, an anthrax toxin receptor
Authors : Lacy, D.B.; Wigelsworth, D.J.; Melnyk, R.A.; Collier, R.J.
Deposited on : 2004-07-10
Resolution : 4.30 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

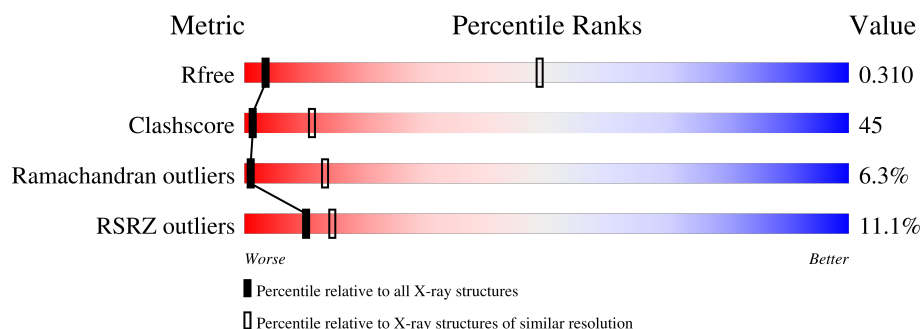
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 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	1052 (4.70-3.90)
Clashscore	190562	1097 (4.70-3.90)
Ramachandran outliers	187476	1001 (4.70-3.90)
RSRZ outliers	180081	1049 (4.70-3.90)

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	562	8% 37% 56% 5%
1	B	562	6% 37% 57% • •
1	C	562	12% 37% 57% • •
1	D	562	7% 36% 58% • •
1	E	562	5% 37% 57% • •
1	F	562	7% 37% 57% 5%
1	G	562	9% 37% 56% 5%

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Mol	Chain	Length	Quality of chain
1	H	562	
1	I	562	
1	J	562	
1	K	562	
1	L	562	
1	M	562	
1	O	562	
2	a	181	
2	b	181	
2	c	181	
2	d	181	
2	e	181	
2	f	181	
2	g	181	
2	h	181	
2	i	181	
2	j	181	
2	k	181	
2	l	181	
2	m	181	
2	o	181	



2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 80570 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 Protective antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	B	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	C	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	D	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	E	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	F	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	G	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	H	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	I	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	J	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	K	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	L	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	M	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			
1	O	552	Total	C	N	O	S	0	0	0
			4356	2726	752	872	6			

- Molecule 2 is a protein called Anthrax toxin receptor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	a	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	b	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	c	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	d	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	e	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	f	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	g	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	h	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	i	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	j	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	k	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	l	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	m	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			
2	o	181	Total	C	N	O	S	0	0	0
			1396	891	236	265	4			

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Ca	0	0
			2	2		
3	B	2	Total	Ca	0	0
			2	2		
3	C	2	Total	Ca	0	0
			2	2		
3	D	2	Total	Ca	0	0
			2	2		
3	E	2	Total	Ca	0	0
			2	2		
3	F	2	Total	Ca	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	G	2	Total 2	Ca 2	0	0
3	H	2	Total 2	Ca 2	0	0
3	I	2	Total 2	Ca 2	0	0
3	J	2	Total 2	Ca 2	0	0
3	K	2	Total 2	Ca 2	0	0
3	L	2	Total 2	Ca 2	0	0
3	M	2	Total 2	Ca 2	0	0
3	O	2	Total 2	Ca 2	0	0

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total 1	Mg 1	0	0
4	B	1	Total 1	Mg 1	0	0
4	C	1	Total 1	Mg 1	0	0
4	D	1	Total 1	Mg 1	0	0
4	E	1	Total 1	Mg 1	0	0
4	F	1	Total 1	Mg 1	0	0
4	G	1	Total 1	Mg 1	0	0
4	H	1	Total 1	Mg 1	0	0
4	I	1	Total 1	Mg 1	0	0
4	J	1	Total 1	Mg 1	0	0
4	K	1	Total 1	Mg 1	0	0

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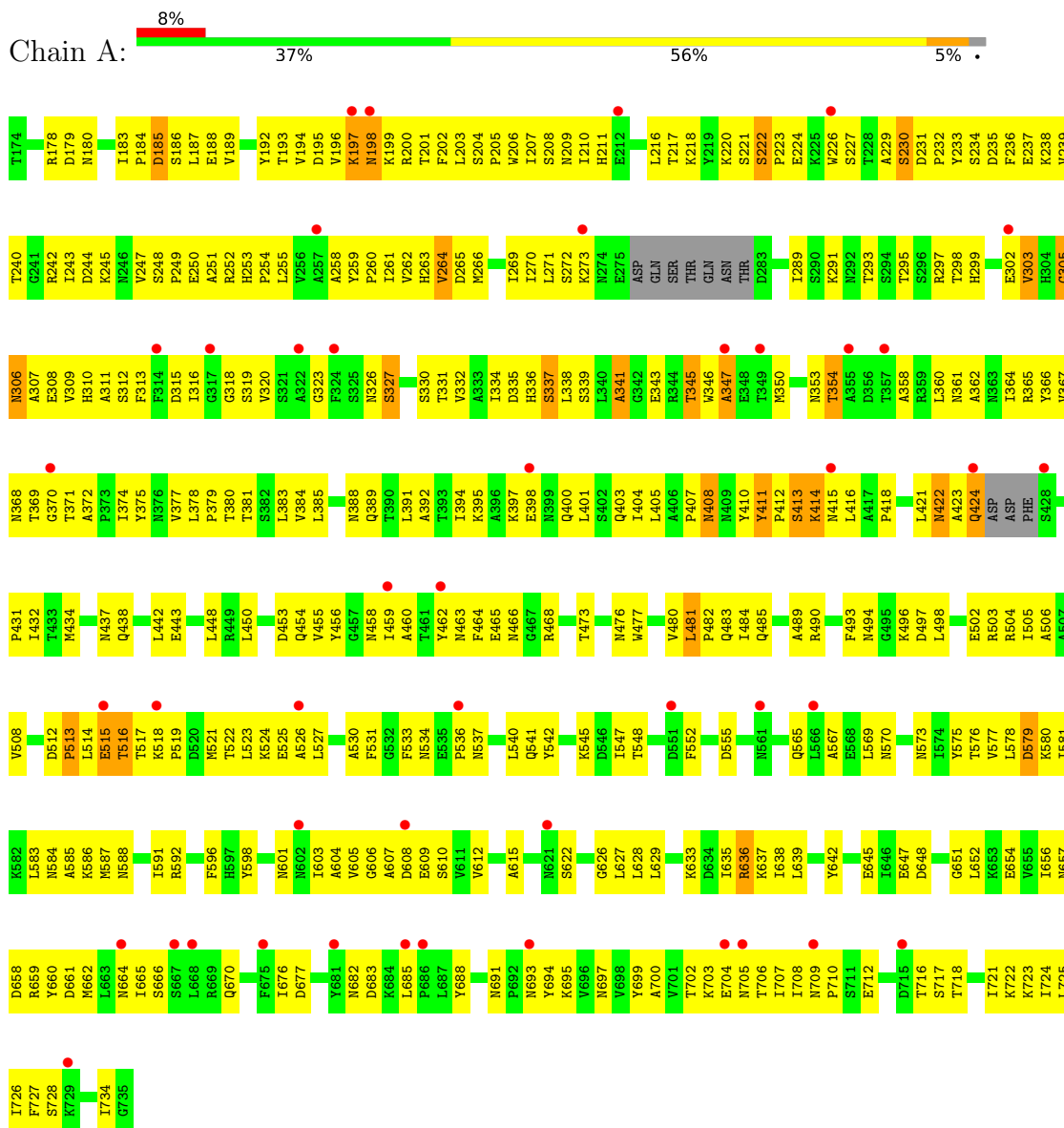
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	1	Total 1	Mg 1	0	0
4	M	1	Total 1	Mg 1	0	0
4	O	1	Total 1	Mg 1	0	0

3 Residue-property plots

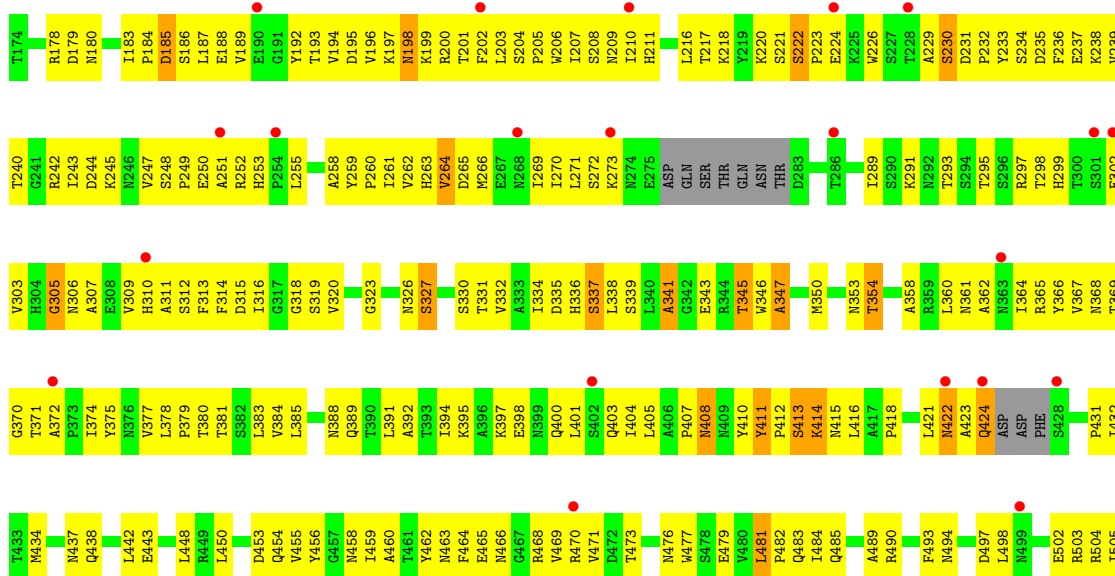
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

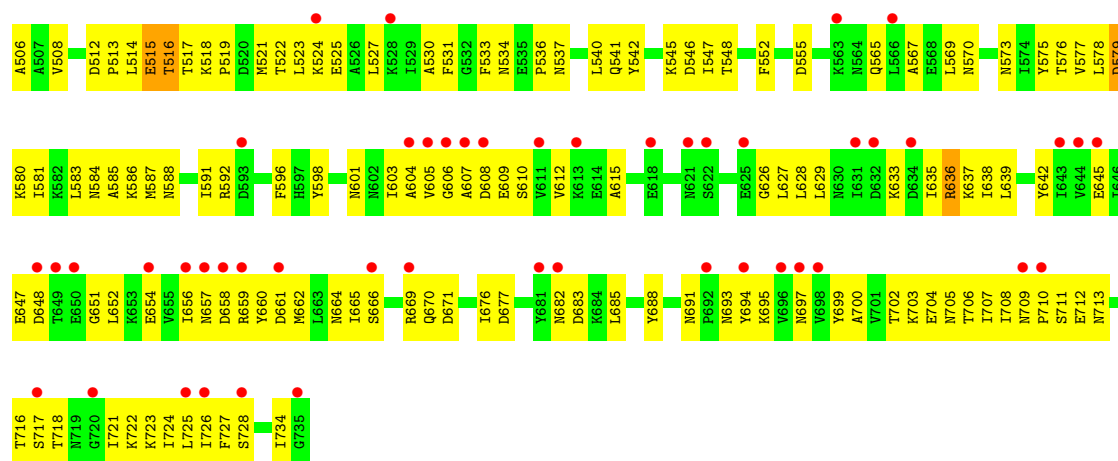
• Molecule 1: Protective antigen



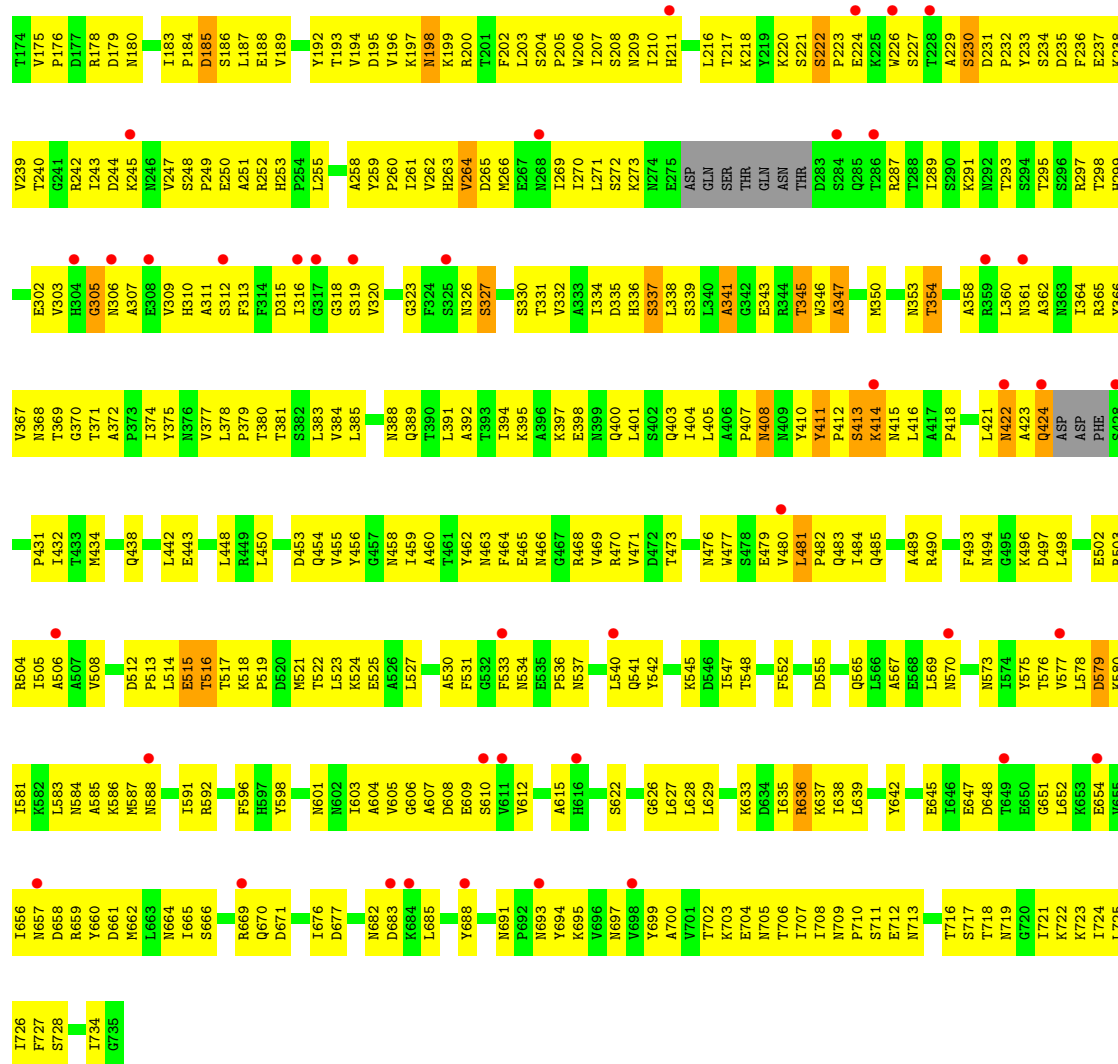
• Molecule 1: Protective antigen



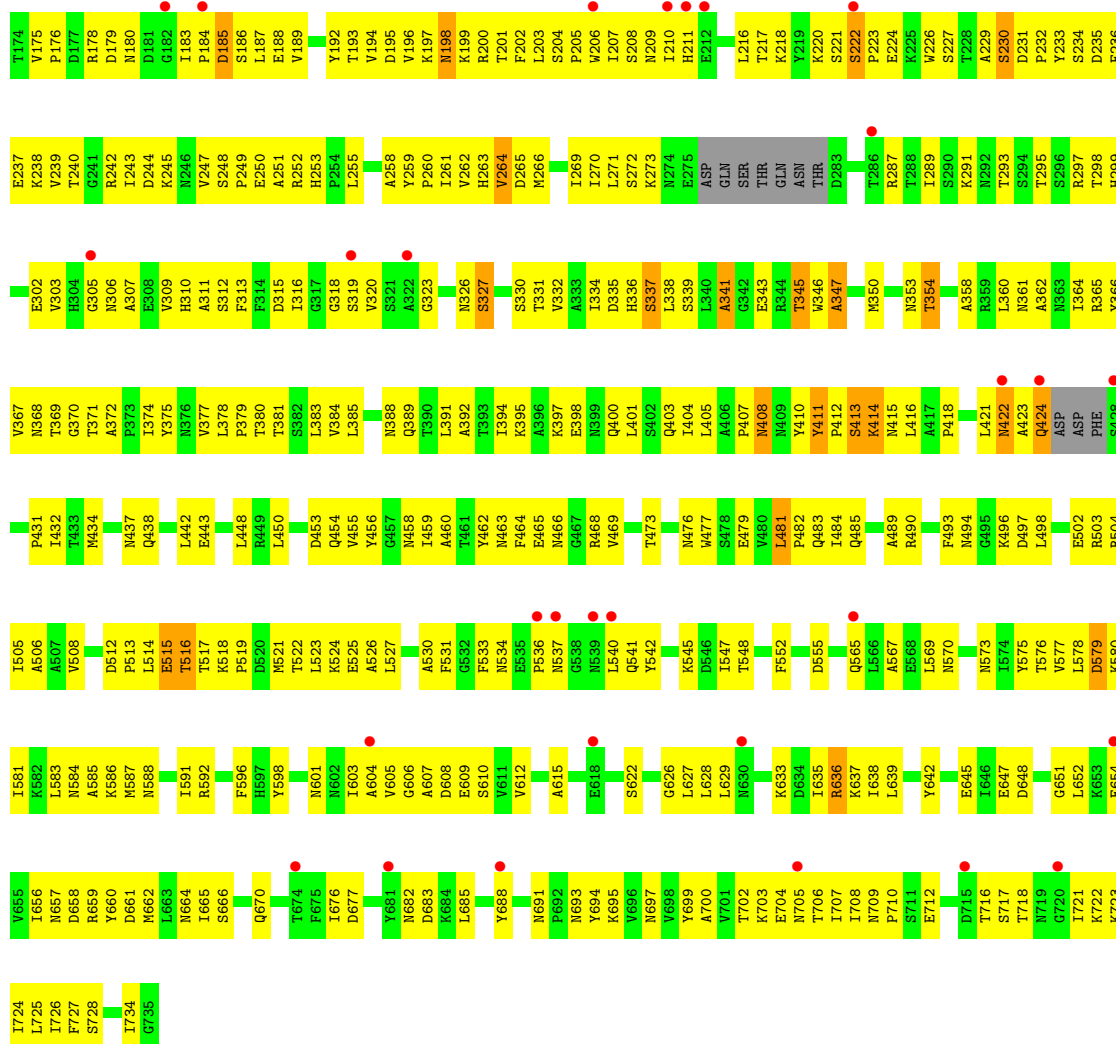




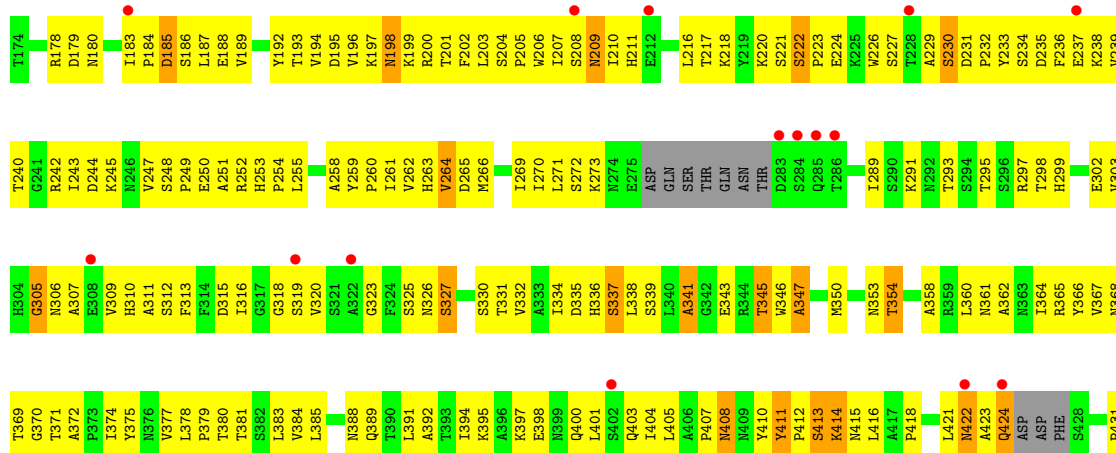
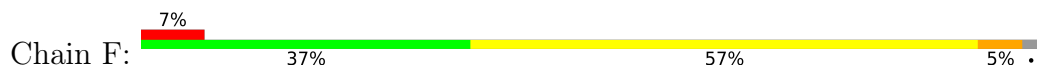
• Molecule 1: Protective antigen

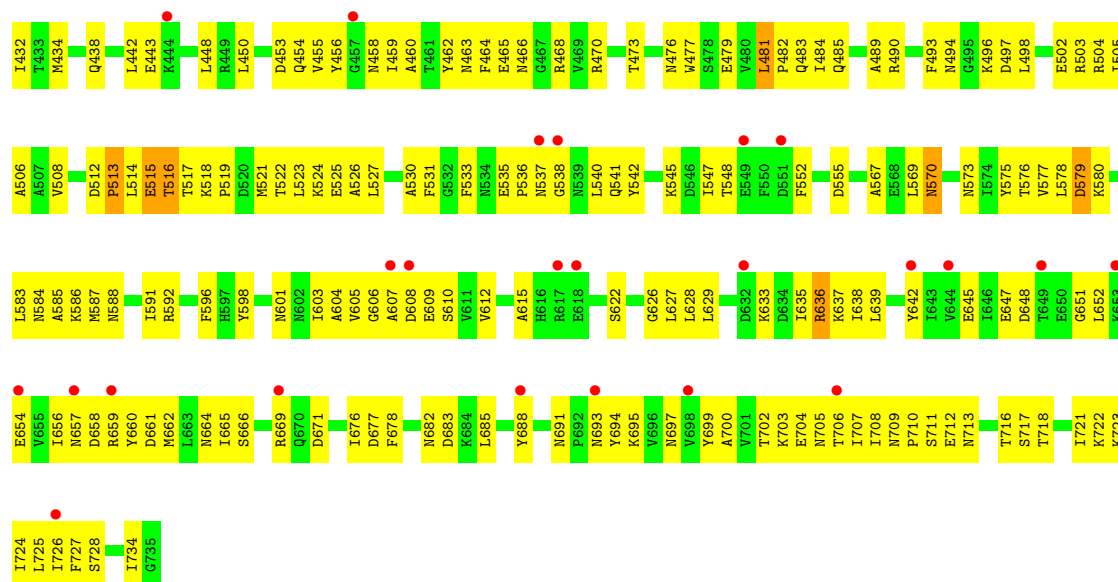


• Molecule 1: Protective antigen

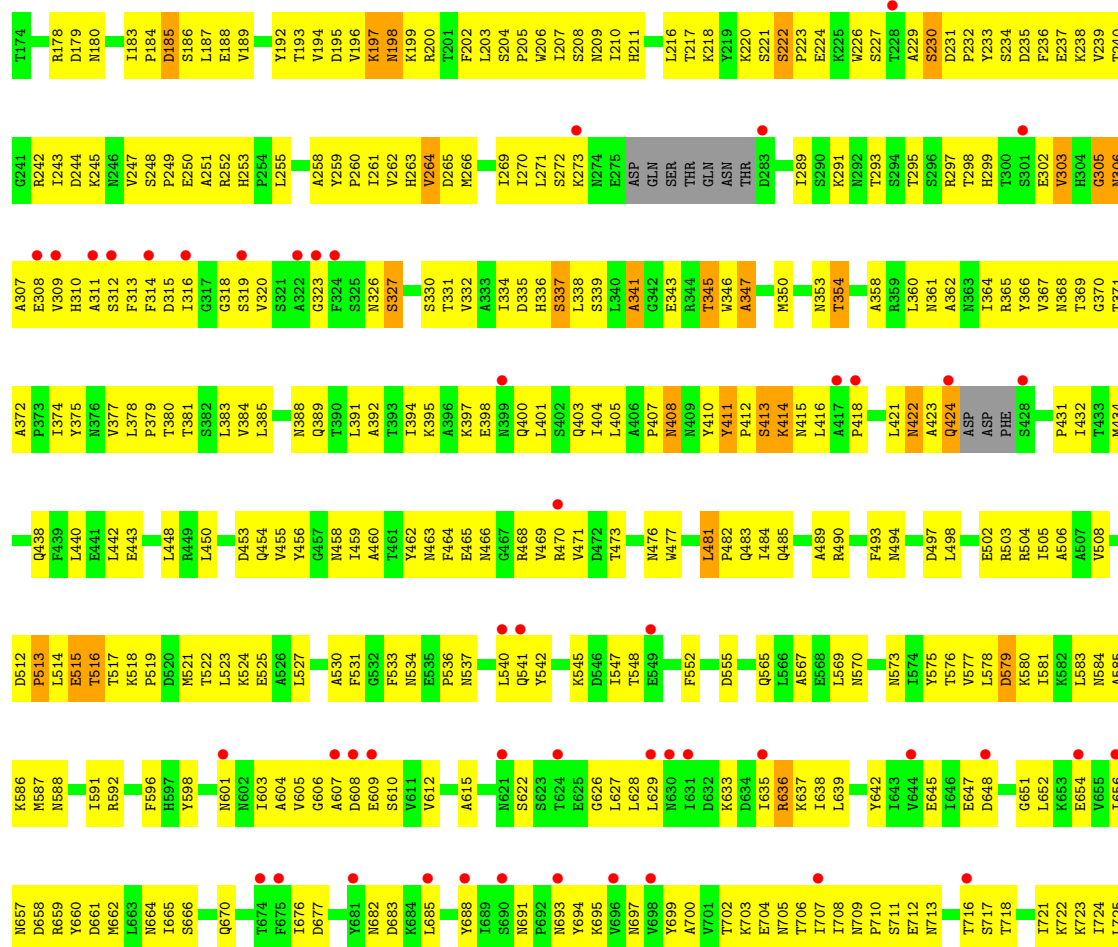


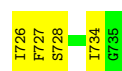
• Molecule 1: Protective antigen



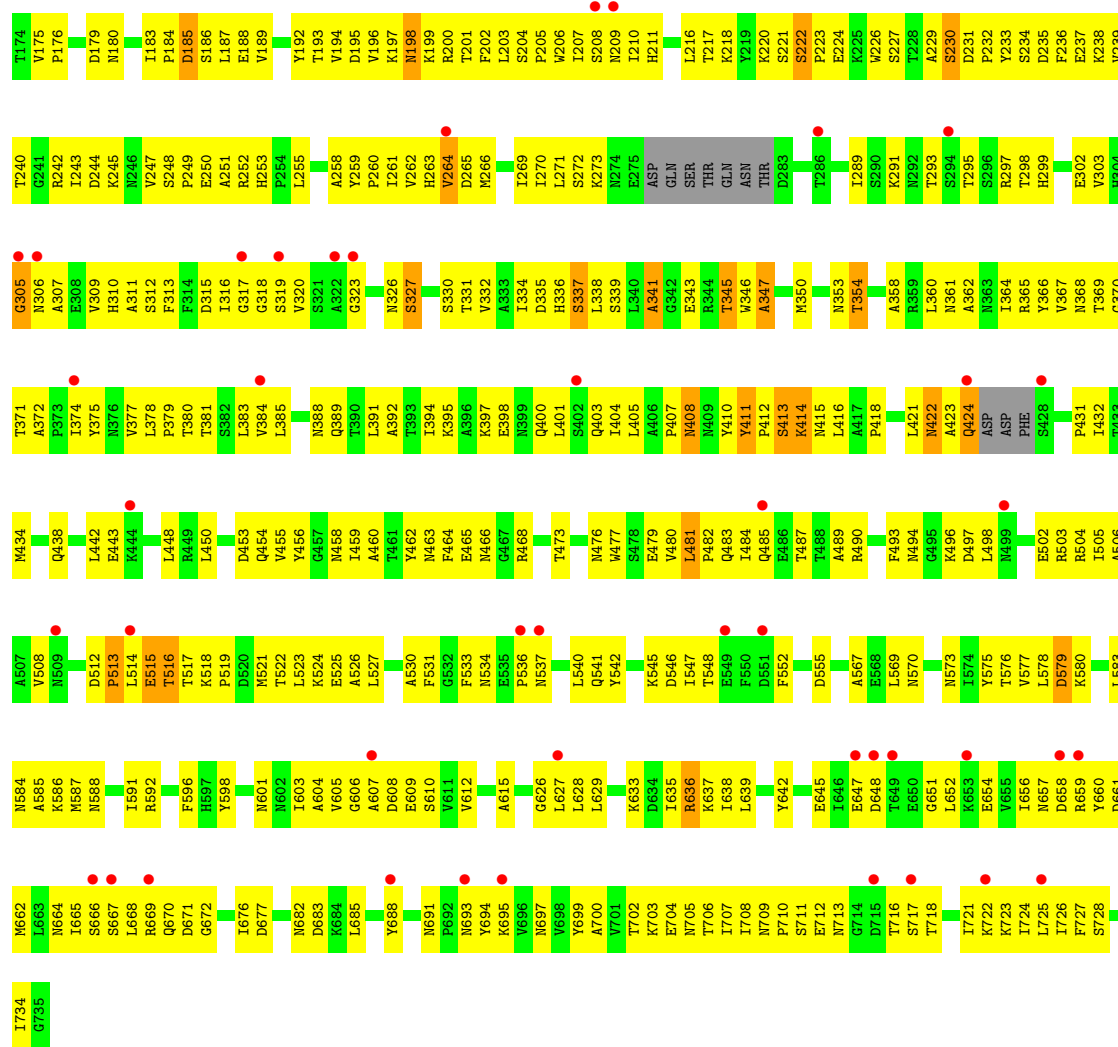


• Molecule 1: Protective antigen

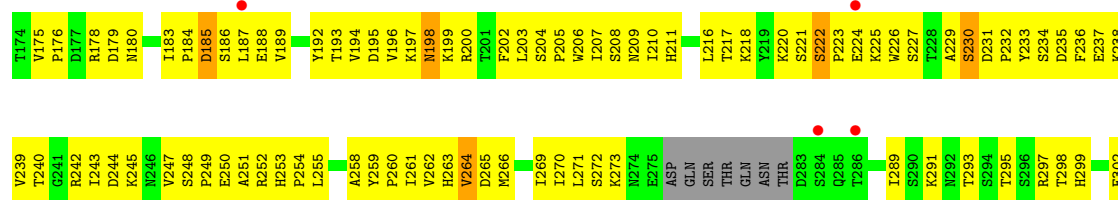


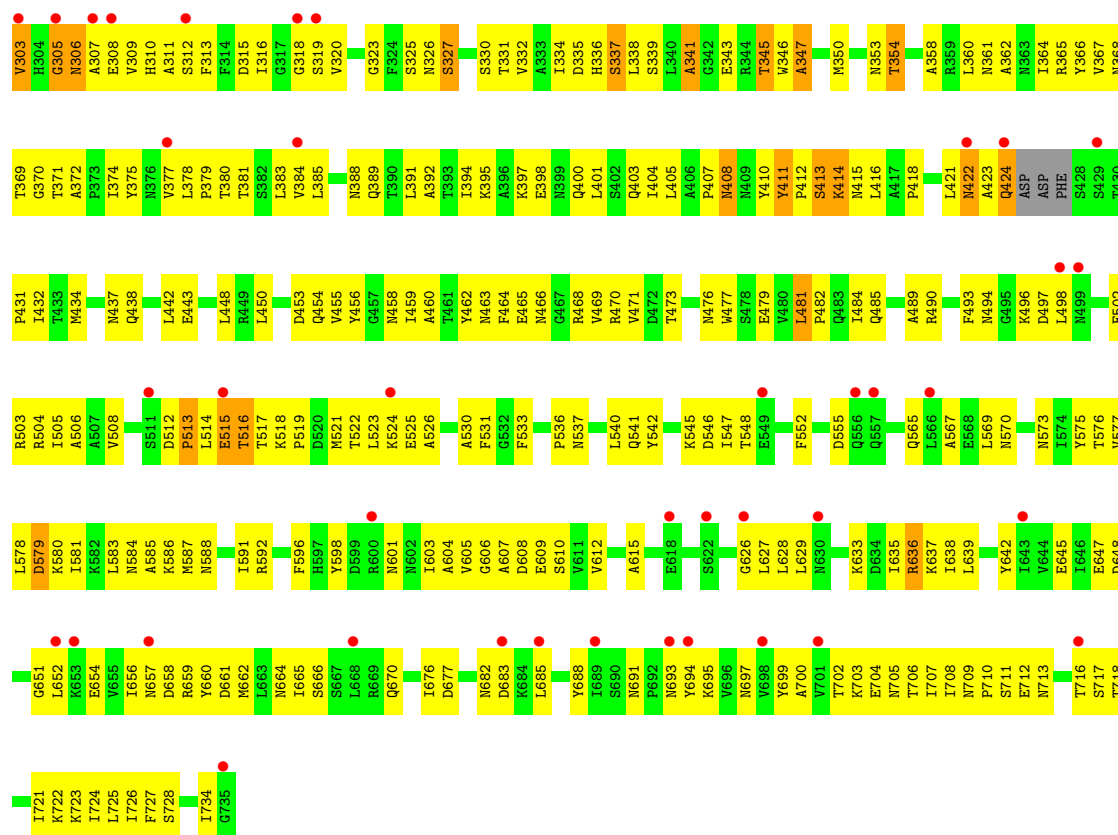


• Molecule 1: Protective antigen

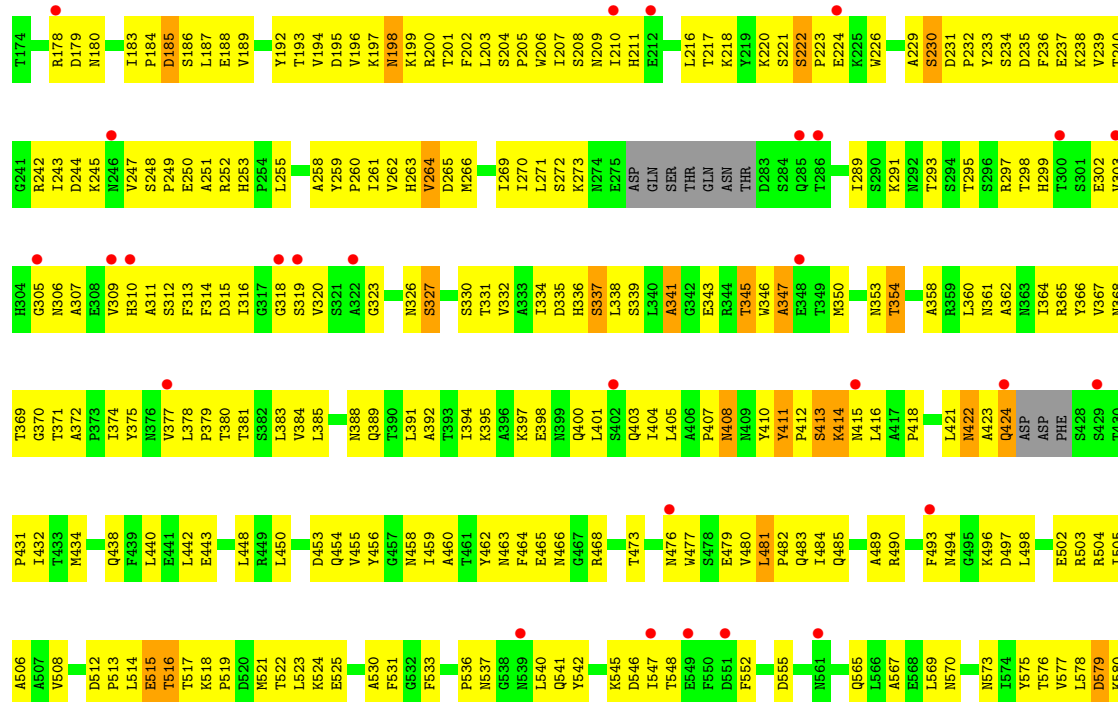


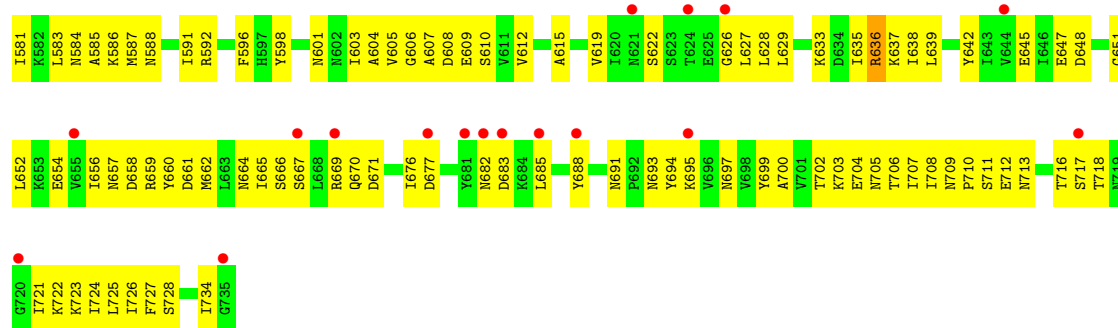
• Molecule 1: Protective antigen



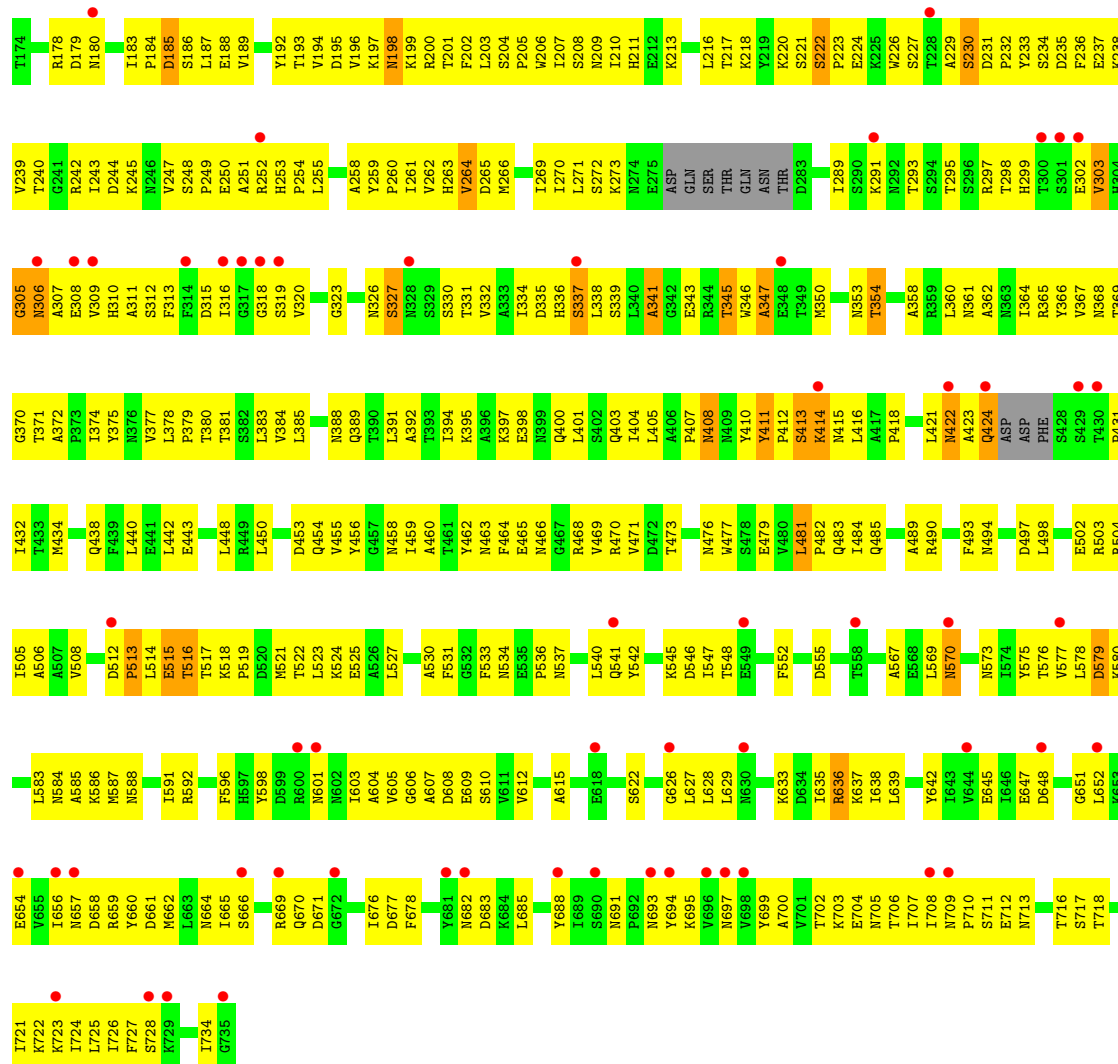


• Molecule 1: Protective antigen



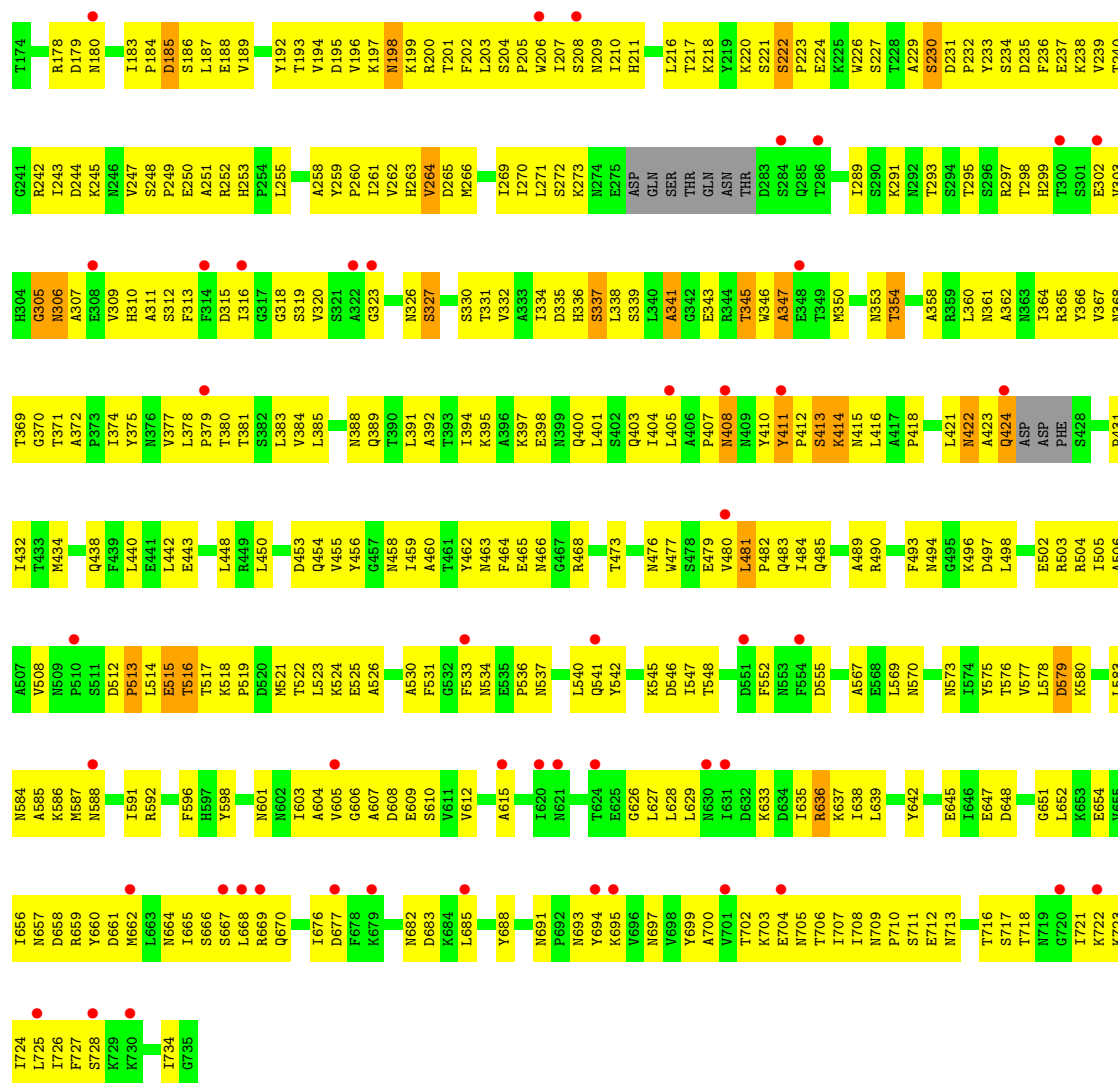


• Molecule 1: Protective antigen

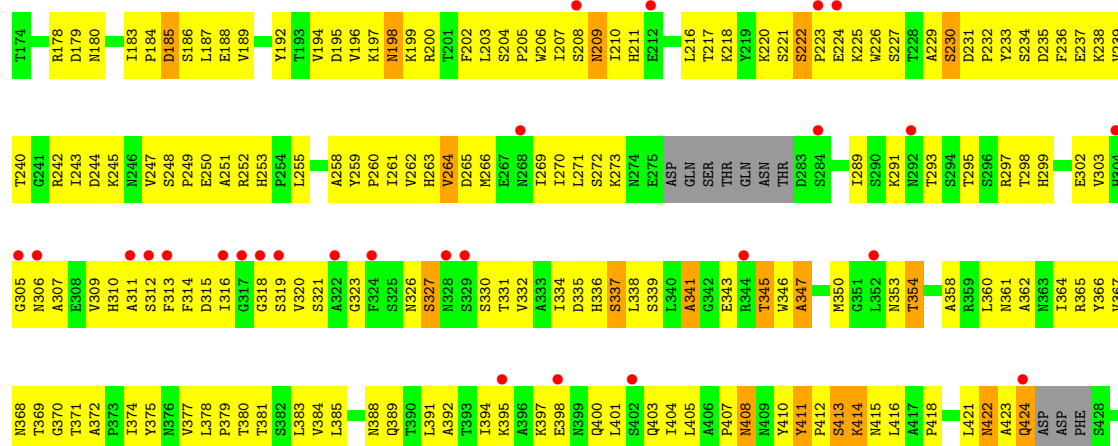


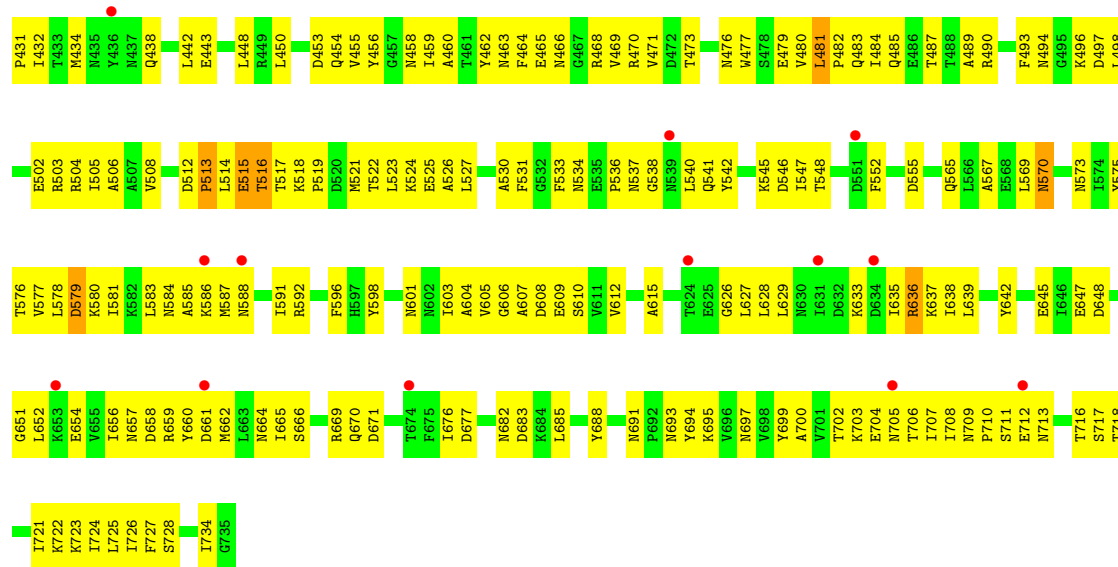
• Molecule 1: Protective antigen



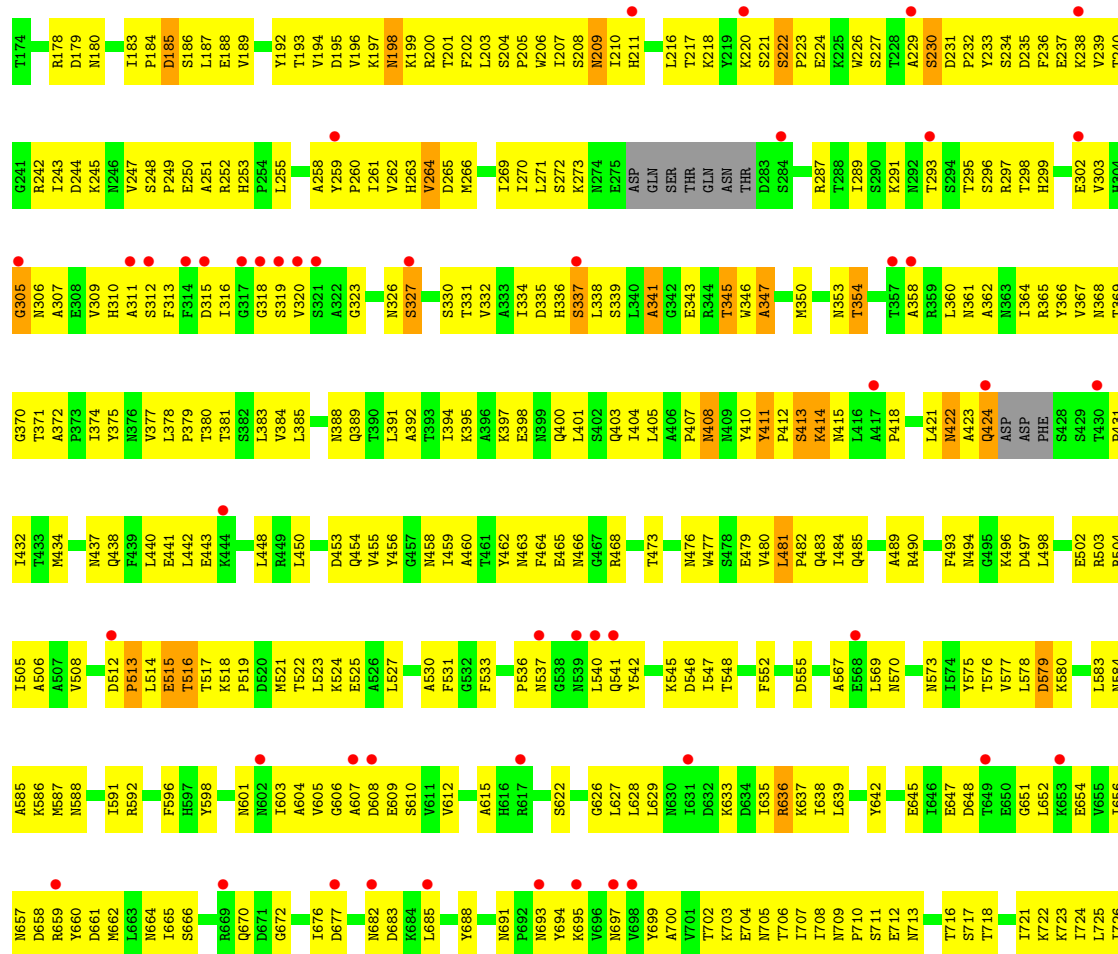


• Molecule 1: Protective antigen



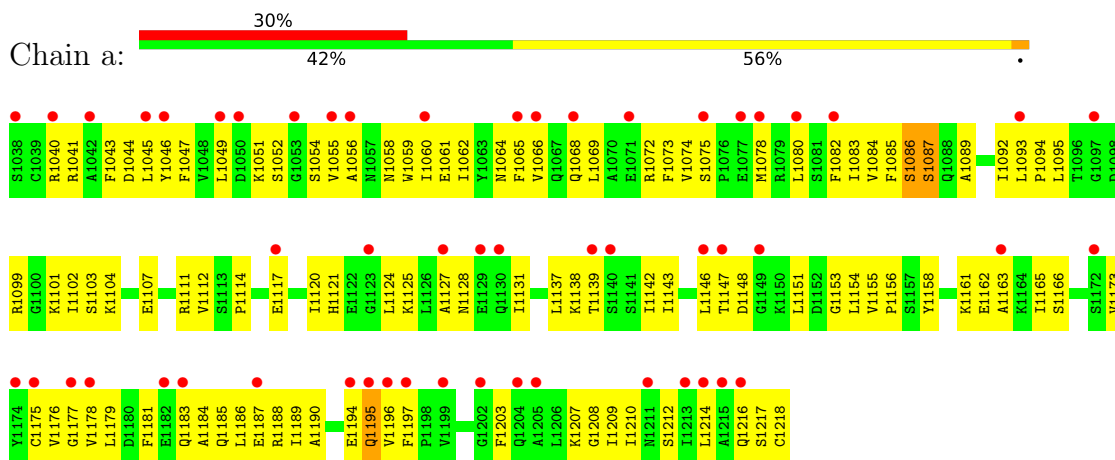


• Molecule 1: Protective antigen

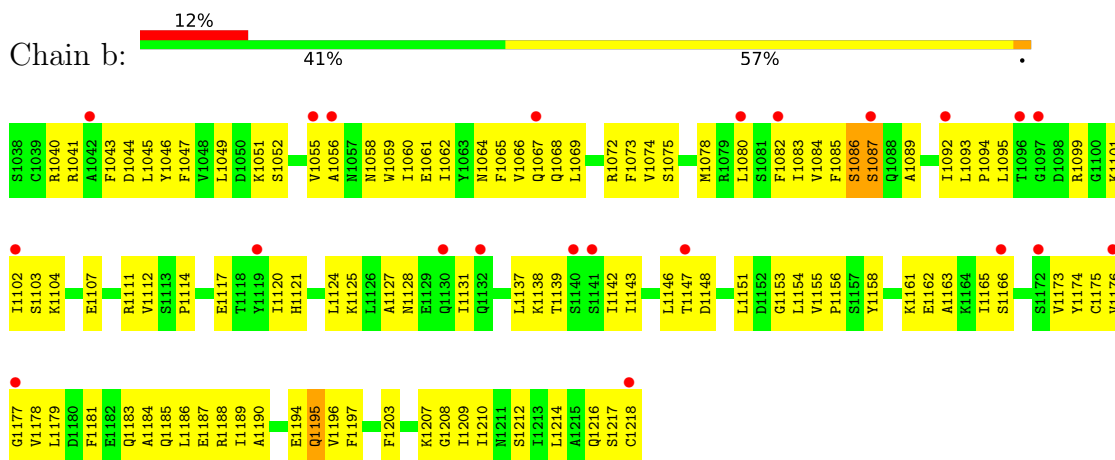




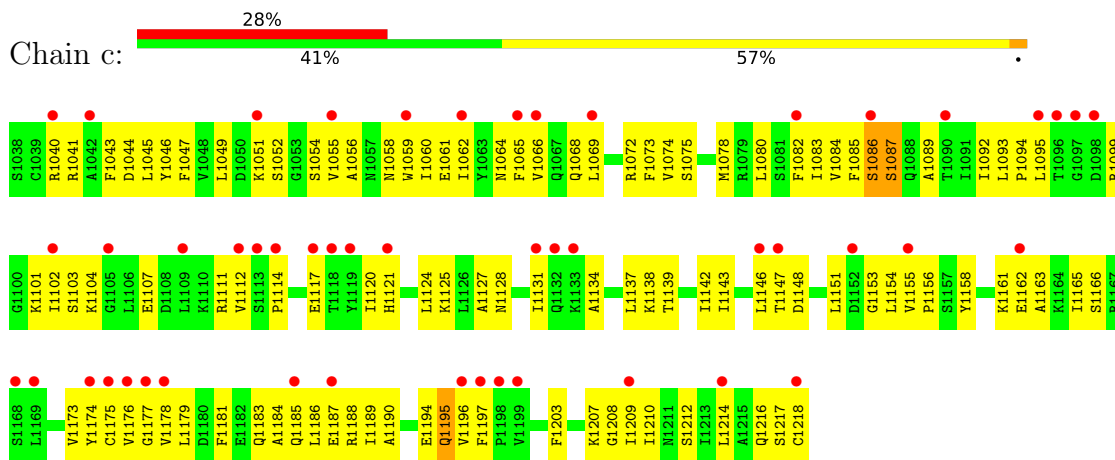
• Molecule 2: Anthrax toxin receptor 2



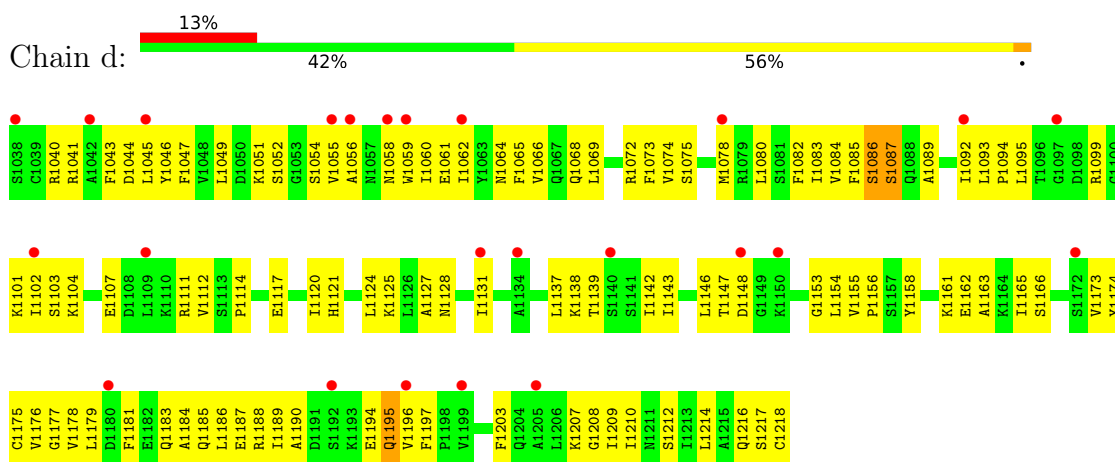
• Molecule 2: Anthrax toxin receptor 2



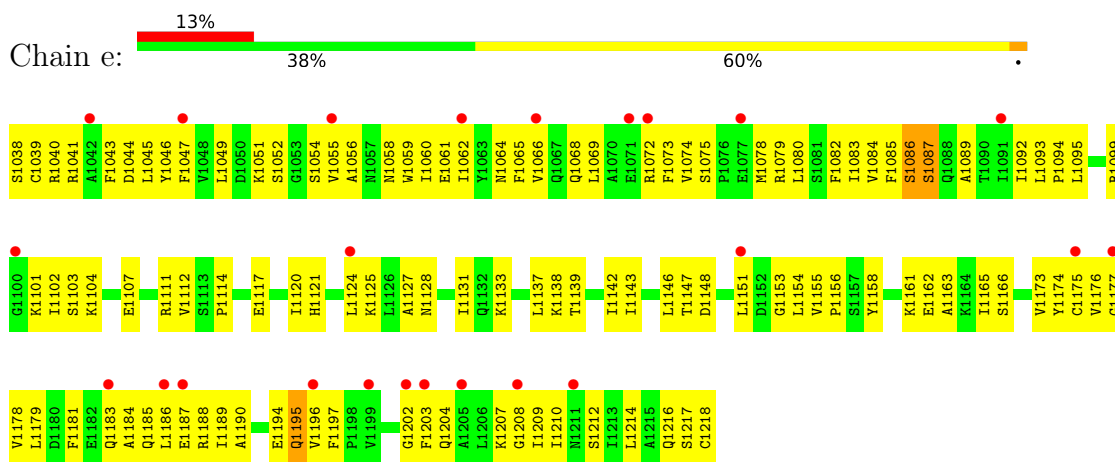
• Molecule 2: Anthrax toxin receptor 2



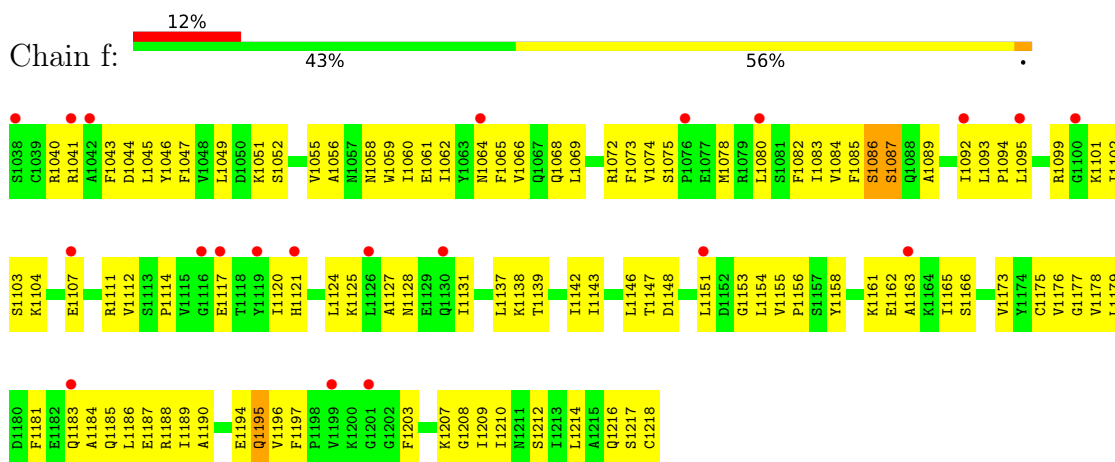
• Molecule 2: Anthrax toxin receptor 2



• Molecule 2: Anthrax toxin receptor 2

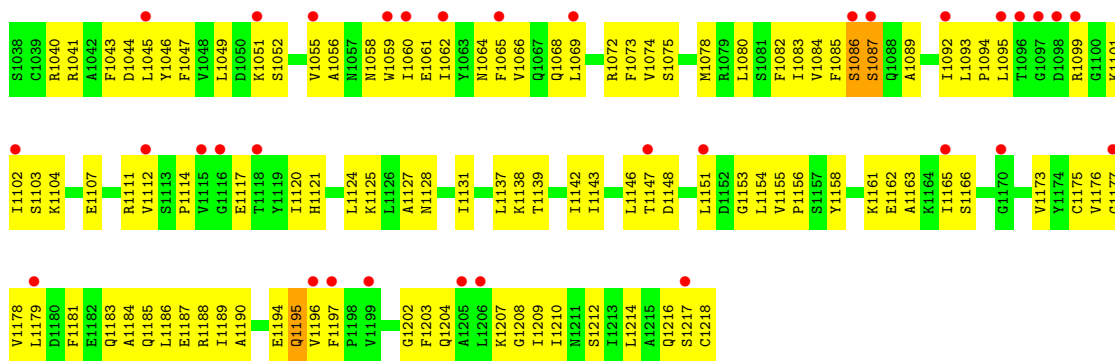


• Molecule 2: Anthrax toxin receptor 2

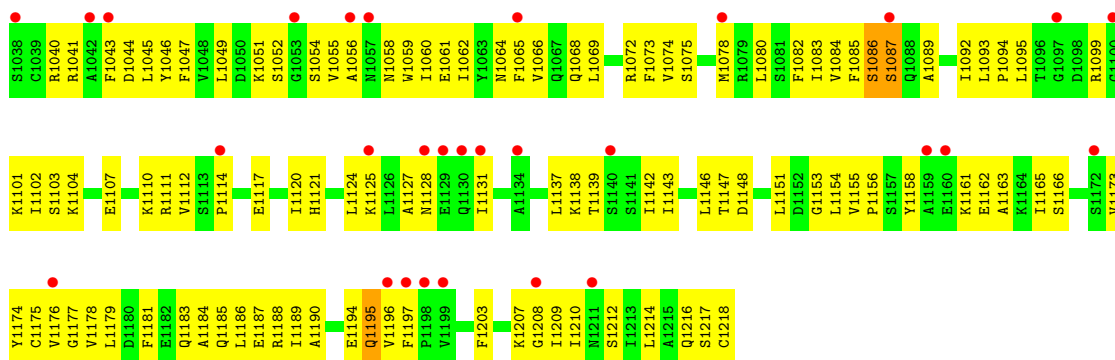


• Molecule 2: Anthrax toxin receptor 2

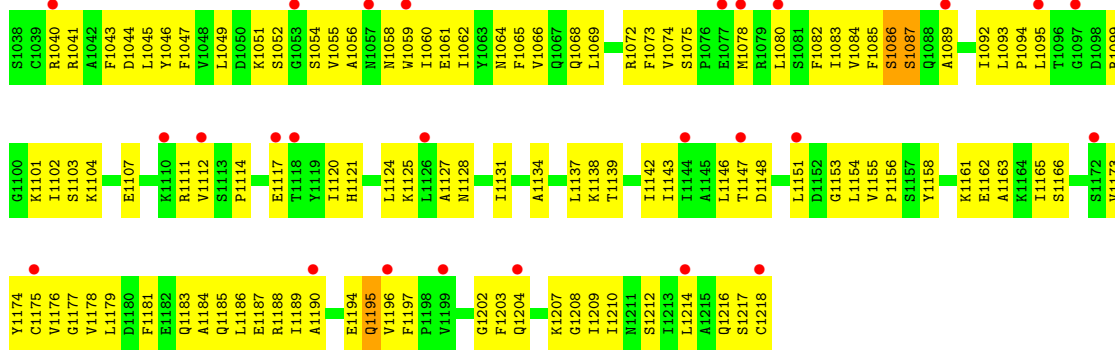




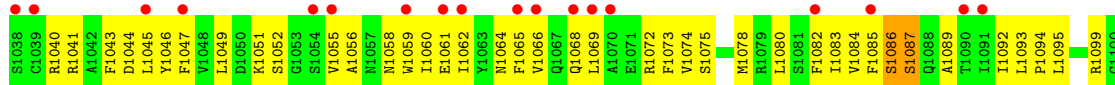
• Molecule 2: Anthrax toxin receptor 2

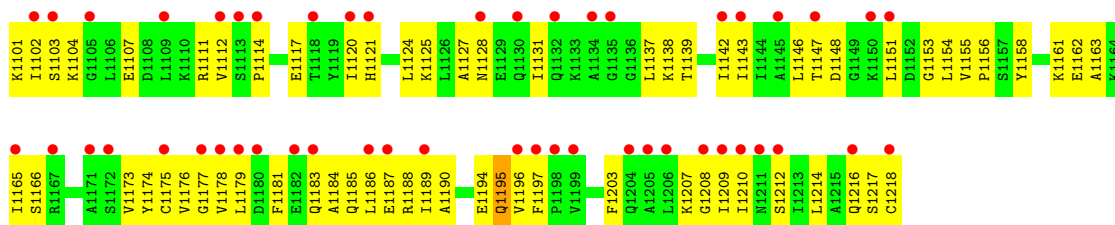


• Molecule 2: Anthrax toxin receptor 2

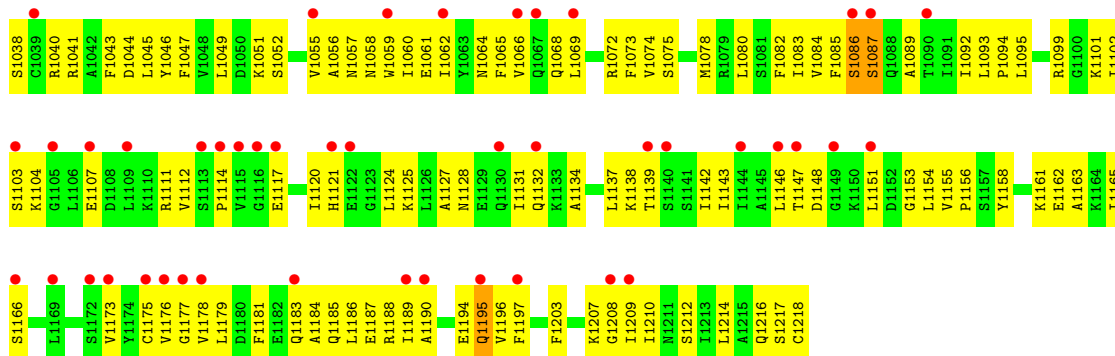


• Molecule 2: Anthrax toxin receptor 2

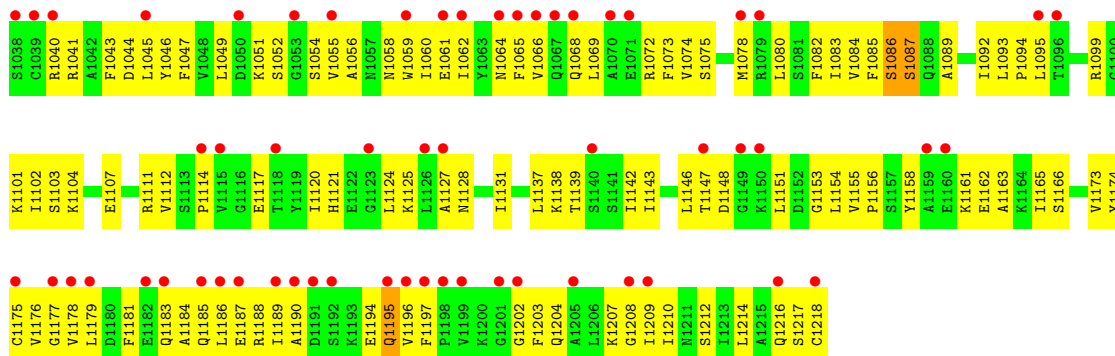




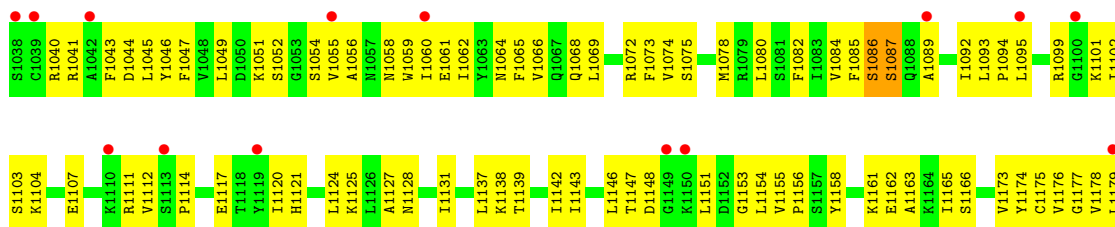
• Molecule 2: Anthrax toxin receptor 2



• Molecule 2: Anthrax toxin receptor 2

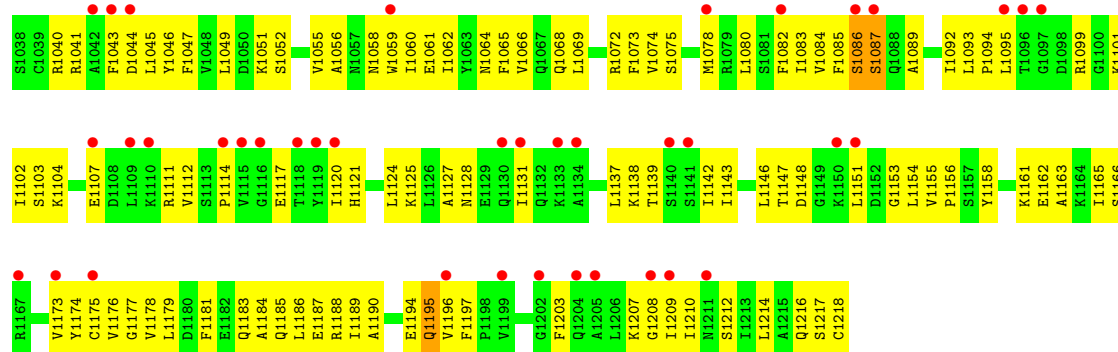
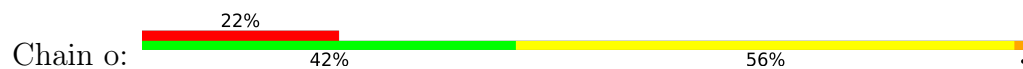


• Molecule 2: Anthrax toxin receptor 2





• Molecule 2: Anthrax toxin receptor 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	158.80Å 158.85Å 214.08Å 69.58° 69.07° 65.58°	Depositor
Resolution (Å)	20.00 – 4.30 20.00 – 4.30	Depositor EDS
% Data completeness (in resolution range)	97.2 (20.00-4.30) 96.2 (20.00-4.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.17	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.97 (at 4.20Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.322 , 0.330 0.305 , 0.310	Depositor DCC
R_{free} test set	5704 reflections (4.76%)	wwPDB-VP
Wilson B-factor (Å ²)	81.4	Xtriage
Anisotropy	0.270	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.20 , 71.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.125 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	80570	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.22% 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

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

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	0.32	0/4430	0.78	7/6007 (0.1%)
1	B	0.32	0/4430	0.78	7/6007 (0.1%)
1	C	0.32	0/4430	0.78	7/6007 (0.1%)
1	D	0.32	0/4430	0.78	7/6007 (0.1%)
1	E	0.32	0/4430	0.78	7/6007 (0.1%)
1	F	0.32	0/4430	0.78	7/6007 (0.1%)
1	G	0.32	0/4430	0.78	7/6007 (0.1%)
1	H	0.32	0/4430	0.78	7/6007 (0.1%)
1	I	0.32	0/4430	0.78	7/6007 (0.1%)
1	J	0.32	0/4430	0.78	7/6007 (0.1%)
1	K	0.32	0/4430	0.78	7/6007 (0.1%)
1	L	0.32	0/4430	0.78	7/6007 (0.1%)
1	M	0.32	0/4430	0.78	7/6007 (0.1%)
1	O	0.32	0/4430	0.78	7/6007 (0.1%)
2	a	0.27	0/1417	0.80	1/1907 (0.1%)
2	b	0.27	0/1417	0.80	1/1907 (0.1%)
2	c	0.27	0/1417	0.80	1/1907 (0.1%)
2	d	0.27	0/1417	0.80	1/1907 (0.1%)
2	e	0.27	0/1417	0.80	1/1907 (0.1%)
2	f	0.27	0/1417	0.80	1/1907 (0.1%)
2	g	0.27	0/1417	0.80	1/1907 (0.1%)
2	h	0.27	0/1417	0.80	1/1907 (0.1%)
2	i	0.27	0/1417	0.80	1/1907 (0.1%)
2	j	0.27	0/1417	0.80	1/1907 (0.1%)
2	k	0.27	0/1417	0.80	1/1907 (0.1%)
2	l	0.27	0/1417	0.80	1/1907 (0.1%)
2	m	0.27	0/1417	0.80	1/1907 (0.1%)
2	o	0.27	0/1417	0.80	1/1907 (0.1%)
All	All	0.31	0/81858	0.79	112/110796 (0.1%)

There are no bond length outliers.

All (112) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	424	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	G	424	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	E	424	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	B	424	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	C	424	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	O	424	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	H	424	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	A	424	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	K	424	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	M	424	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	D	424	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	L	424	GLN	OE1-CD-NE2	-9.81	112.78	122.60
1	F	424	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	I	424	GLN	OE1-CD-NE2	-9.80	112.80	122.60
2	o	1087	SER	N-CA-C	-7.66	103.92	113.18
2	a	1087	SER	N-CA-C	-7.65	103.92	113.18
2	l	1087	SER	N-CA-C	-7.65	103.93	113.18
2	e	1087	SER	N-CA-C	-7.64	103.94	113.18
2	h	1087	SER	N-CA-C	-7.64	103.94	113.18
2	d	1087	SER	N-CA-C	-7.63	103.95	113.18
2	i	1087	SER	N-CA-C	-7.62	103.96	113.18
2	k	1087	SER	N-CA-C	-7.62	103.96	113.18
2	g	1087	SER	N-CA-C	-7.61	103.97	113.18
2	b	1087	SER	N-CA-C	-7.61	103.97	113.18
2	m	1087	SER	N-CA-C	-7.61	103.97	113.18
2	f	1087	SER	N-CA-C	-7.61	103.97	113.18
2	j	1087	SER	N-CA-C	-7.59	103.99	113.18
2	c	1087	SER	N-CA-C	-7.59	104.00	113.18
1	A	516	THR	N-CA-C	-7.17	104.80	113.97
1	G	516	THR	N-CA-C	-7.15	104.82	113.97
1	C	516	THR	N-CA-C	-7.15	104.82	113.97
1	E	516	THR	N-CA-C	-7.15	104.82	113.97
1	H	516	THR	N-CA-C	-7.14	104.83	113.97
1	I	516	THR	N-CA-C	-7.14	104.83	113.97
1	D	516	THR	N-CA-C	-7.13	104.84	113.97
1	B	516	THR	N-CA-C	-7.12	104.85	113.97
1	K	516	THR	N-CA-C	-7.12	104.86	113.97
1	O	516	THR	N-CA-C	-7.12	104.85	113.97
1	F	516	THR	N-CA-C	-7.11	104.87	113.97
1	L	516	THR	N-CA-C	-7.11	104.87	113.97
1	J	516	THR	N-CA-C	-7.10	104.88	113.97
1	M	516	THR	N-CA-C	-7.08	104.90	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	424	GLN	CG-CD-NE2	6.72	126.48	116.40
1	H	424	GLN	CG-CD-NE2	6.70	126.45	116.40
1	G	424	GLN	CG-CD-NE2	6.69	126.44	116.40
1	F	424	GLN	CG-CD-NE2	6.69	126.43	116.40
1	A	424	GLN	CG-CD-NE2	6.68	126.43	116.40
1	D	424	GLN	CG-CD-NE2	6.68	126.42	116.40
1	J	424	GLN	CG-CD-NE2	6.68	126.42	116.40
1	L	424	GLN	CG-CD-NE2	6.68	126.42	116.40
1	B	424	GLN	CG-CD-NE2	6.67	126.41	116.40
1	C	424	GLN	CG-CD-NE2	6.67	126.40	116.40
1	O	424	GLN	CG-CD-NE2	6.67	126.40	116.40
1	M	424	GLN	CG-CD-NE2	6.66	126.40	116.40
1	K	424	GLN	CG-CD-NE2	6.66	126.39	116.40
1	I	424	GLN	CG-CD-NE2	6.66	126.39	116.40
1	F	375	TYR	N-CA-C	5.57	120.22	113.38
1	A	375	TYR	N-CA-C	5.56	120.22	113.38
1	H	375	TYR	N-CA-C	5.56	120.22	113.38
1	O	375	TYR	N-CA-C	5.56	120.22	113.38
1	E	375	TYR	N-CA-C	5.55	120.21	113.38
1	M	375	TYR	N-CA-C	5.55	120.21	113.38
1	J	375	TYR	N-CA-C	5.54	120.19	113.38
1	D	375	TYR	N-CA-C	5.54	120.19	113.38
1	C	375	TYR	N-CA-C	5.54	120.19	113.38
1	G	375	TYR	N-CA-C	5.54	120.19	113.38
1	B	375	TYR	N-CA-C	5.53	120.18	113.38
1	K	375	TYR	N-CA-C	5.53	120.17	113.38
1	L	375	TYR	N-CA-C	5.52	120.17	113.38
1	I	375	TYR	N-CA-C	5.51	120.16	113.38
1	O	222	SER	CA-C-N	5.36	125.83	120.04
1	O	222	SER	C-N-CA	5.36	125.83	120.04
1	G	222	SER	CA-C-N	5.36	125.83	120.04
1	G	222	SER	C-N-CA	5.36	125.83	120.04
1	E	222	SER	CA-C-N	5.34	125.81	120.04
1	E	222	SER	C-N-CA	5.34	125.81	120.04
1	A	222	SER	CA-C-N	5.33	125.80	120.04
1	A	222	SER	C-N-CA	5.33	125.80	120.04
1	J	222	SER	CA-C-N	5.33	125.80	120.04
1	J	222	SER	C-N-CA	5.33	125.80	120.04
1	B	222	SER	CA-C-N	5.32	125.78	120.04
1	B	222	SER	C-N-CA	5.32	125.78	120.04
1	I	264	VAL	N-CA-C	5.31	115.96	108.36
1	D	222	SER	CA-C-N	5.31	125.78	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	222	SER	C-N-CA	5.31	125.78	120.04
1	K	264	VAL	N-CA-C	5.31	115.96	108.36
1	M	222	SER	CA-C-N	5.31	125.78	120.04
1	M	222	SER	C-N-CA	5.31	125.78	120.04
1	G	264	VAL	N-CA-C	5.31	115.95	108.36
1	I	222	SER	CA-C-N	5.31	125.78	120.04
1	I	222	SER	C-N-CA	5.31	125.78	120.04
1	J	264	VAL	N-CA-C	5.30	115.95	108.36
1	F	264	VAL	N-CA-C	5.30	115.94	108.36
1	M	264	VAL	N-CA-C	5.30	115.94	108.36
1	A	264	VAL	N-CA-C	5.30	115.94	108.36
1	D	264	VAL	N-CA-C	5.30	115.94	108.36
1	K	222	SER	CA-C-N	5.29	125.76	120.04
1	K	222	SER	C-N-CA	5.29	125.76	120.04
1	F	222	SER	CA-C-N	5.29	125.75	120.04
1	F	222	SER	C-N-CA	5.29	125.75	120.04
1	L	264	VAL	N-CA-C	5.29	115.93	108.36
1	H	264	VAL	N-CA-C	5.28	115.91	108.36
1	L	222	SER	CA-C-N	5.28	125.74	120.04
1	L	222	SER	C-N-CA	5.28	125.74	120.04
1	E	264	VAL	N-CA-C	5.28	115.91	108.36
1	H	222	SER	CA-C-N	5.27	125.73	120.04
1	H	222	SER	C-N-CA	5.27	125.73	120.04
1	B	264	VAL	N-CA-C	5.27	115.89	108.36
1	O	264	VAL	N-CA-C	5.26	115.89	108.36
1	C	264	VAL	N-CA-C	5.26	115.89	108.36
1	C	222	SER	CA-C-N	5.25	125.72	120.04
1	C	222	SER	C-N-CA	5.25	125.72	120.04

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4356	0	4314	442	5

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	4356	0	4314	438	0
1	C	4356	0	4314	430	2
1	D	4356	0	4314	426	2
1	E	4356	0	4314	419	2
1	F	4356	0	4314	417	9
1	G	4356	0	4314	474	6
1	H	4356	0	4314	483	5
1	I	4356	0	4314	478	0
1	J	4356	0	4314	444	1
1	K	4356	0	4314	451	2
1	L	4356	0	4314	460	0
1	M	4356	0	4314	474	8
1	O	4356	0	4314	447	2
2	a	1396	0	1426	122	2
2	b	1396	0	1426	121	2
2	c	1396	0	1426	120	0
2	d	1396	0	1426	118	0
2	e	1396	0	1426	120	5
2	f	1396	0	1426	117	0
2	g	1396	0	1426	119	0
2	h	1396	0	1426	119	1
2	i	1396	0	1426	120	0
2	j	1396	0	1426	120	0
2	k	1396	0	1426	117	5
2	l	1396	0	1426	120	4
2	m	1396	0	1426	117	1
2	o	1396	0	1426	119	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
3	C	2	0	0	0	0
3	D	2	0	0	0	0
3	E	2	0	0	0	0
3	F	2	0	0	0	0
3	G	2	0	0	0	0
3	H	2	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
3	K	2	0	0	0	0
3	L	2	0	0	0	0
3	M	2	0	0	0	0
3	O	2	0	0	0	0
4	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
4	E	1	0	0	0	0
4	F	1	0	0	0	0
4	G	1	0	0	0	0
4	H	1	0	0	0	0
4	I	1	0	0	0	0
4	J	1	0	0	0	0
4	K	1	0	0	0	0
4	L	1	0	0	0	0
4	M	1	0	0	0	0
4	O	1	0	0	0	0
All	All	80570	0	80360	7282	32

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 45.

All (7282) 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:G:414:LYS:HG3	1:M:319:SER:N	1.35	1.39
1:G:305:GLY:HA2	1:H:670:GLN:NE2	1.42	1.34
1:G:414:LYS:CG	1:M:319:SER:H	1.41	1.32
1:H:483:GLN:NE2	1:I:469:VAL:HG21	1.47	1.28
1:L:305:GLY:HA2	1:M:670:GLN:CD	1.58	1.26
1:L:305:GLY:HA2	1:M:670:GLN:CG	1.64	1.25
1:A:305:GLY:HA2	1:B:670:GLN:NE2	1.50	1.25
1:K:305:GLY:HA2	1:L:670:GLN:NE2	1.54	1.22
1:G:305:GLY:CA	1:H:670:GLN:HE21	1.54	1.21
1:H:319:SER:N	1:I:414:LYS:HG3	1.58	1.17
1:J:319:SER:H	1:K:414:LYS:HG3	1.03	1.15
1:C:178:ARG:NH1	1:O:200:ARG:HB3	1.60	1.14
1:H:319:SER:H	1:I:414:LYS:HG3	1.04	1.14
1:G:316:ILE:CD1	1:H:496:LYS:HB3	1.77	1.13
1:L:305:GLY:HA2	1:M:670:GLN:NE2	1.64	1.12
1:D:397:LYS:H	1:D:397:LYS:HE3	1.16	1.11
1:B:397:LYS:H	1:B:397:LYS:HE3	1.16	1.10
1:L:316:ILE:HD12	1:M:496:LYS:HD3	1.29	1.10
1:C:397:LYS:HE3	1:C:397:LYS:H	1.16	1.10
1:B:319:SER:H	1:C:414:LYS:HG3	1.05	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:ILE:HD12	1:H:496:LYS:HB3	1.30	1.09
1:G:397:LYS:H	1:G:397:LYS:HE3	1.16	1.09
1:K:397:LYS:HE3	1:K:397:LYS:H	1.16	1.09
1:E:397:LYS:HE3	1:E:397:LYS:H	1.16	1.09
1:A:397:LYS:HE3	1:A:397:LYS:H	1.16	1.09
1:G:414:LYS:HB3	1:M:319:SER:HA	1.22	1.09
1:L:397:LYS:H	1:L:397:LYS:HE3	1.16	1.09
1:M:397:LYS:HE3	1:M:397:LYS:H	1.16	1.08
1:A:305:GLY:HA2	1:B:670:GLN:CD	1.77	1.08
1:J:397:LYS:H	1:J:397:LYS:HE3	1.16	1.08
1:G:414:LYS:CB	1:M:319:SER:HA	1.84	1.07
1:F:397:LYS:HE3	1:F:397:LYS:H	1.16	1.07
1:G:469:VAL:HG21	1:M:483:GLN:NE2	1.69	1.06
1:A:305:GLY:CA	1:B:670:GLN:NE2	2.19	1.05
1:K:305:GLY:CA	1:L:670:GLN:HE21	1.69	1.05
1:L:305:GLY:CA	1:M:670:GLN:NE2	2.18	1.05
1:C:224:GLU:OE2	1:O:201:THR:HG23	1.55	1.05
1:C:178:ARG:CZ	1:O:200:ARG:HB3	1.87	1.05
1:H:397:LYS:HE3	1:H:397:LYS:H	1.16	1.04
1:K:305:GLY:HA2	1:L:670:GLN:HE21	1.05	1.04
1:K:316:ILE:CD1	1:L:496:LYS:HB3	1.88	1.04
1:O:397:LYS:H	1:O:397:LYS:HE3	1.16	1.04
1:I:397:LYS:HE3	1:I:397:LYS:H	1.16	1.04
1:A:305:GLY:CA	1:B:670:GLN:HE21	1.71	1.03
1:I:305:GLY:HA2	1:J:670:GLN:NE2	1.73	1.03
1:H:512:ASP:OD1	1:I:245:LYS:HE3	1.58	1.02
1:H:319:SER:CA	1:I:414:LYS:HG3	1.89	1.02
1:J:642:TYR:HB2	1:J:665:ILE:HD11	1.42	1.02
1:A:642:TYR:HB2	1:A:665:ILE:HD11	1.42	1.01
1:C:642:TYR:HB2	1:C:665:ILE:HD11	1.42	1.01
1:G:642:TYR:HB2	1:G:665:ILE:HD11	1.42	1.01
1:B:642:TYR:HB2	1:B:665:ILE:HD11	1.42	1.00
1:D:642:TYR:HB2	1:D:665:ILE:HD11	1.42	1.00
1:H:319:SER:HA	1:I:414:LYS:CG	1.91	1.00
1:F:642:TYR:HB2	1:F:665:ILE:HD11	1.42	1.00
1:L:316:ILE:CD1	1:M:496:LYS:HD3	1.91	1.00
1:L:642:TYR:HB2	1:L:665:ILE:HD11	1.42	1.00
1:D:670:GLN:CG	1:O:305:GLY:HA2	1.91	0.99
1:M:642:TYR:HB2	1:M:665:ILE:HD11	1.42	0.99
1:E:642:TYR:HB2	1:E:665:ILE:HD11	1.42	0.99
1:O:642:TYR:HB2	1:O:665:ILE:HD11	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:308:GLU:OE2	1:H:667:SER:CB	2.11	0.99
1:H:642:TYR:HB2	1:H:665:ILE:HD11	1.42	0.99
1:I:305:GLY:HA2	1:J:670:GLN:HG3	1.43	0.99
1:I:316:ILE:CD1	1:J:496:LYS:HB3	1.91	0.98
1:A:381:THR:HG23	1:A:394:ILE:HG13	1.46	0.98
1:K:316:ILE:HD12	1:L:496:LYS:HB3	1.43	0.98
1:A:305:GLY:HA2	1:B:670:GLN:CG	1.94	0.98
1:B:381:THR:HG23	1:B:394:ILE:HG13	1.46	0.98
1:E:381:THR:HG23	1:E:394:ILE:HG13	1.46	0.98
1:I:642:TYR:HB2	1:I:665:ILE:HD11	1.42	0.98
1:E:243:ILE:HD11	1:E:247:VAL:HG21	1.46	0.98
1:O:381:THR:HG23	1:O:394:ILE:HG13	1.46	0.98
1:A:243:ILE:HD11	1:A:247:VAL:HG21	1.46	0.97
1:D:381:THR:HG23	1:D:394:ILE:HG13	1.46	0.97
1:H:381:THR:HG23	1:H:394:ILE:HG13	1.46	0.97
1:K:642:TYR:HB2	1:K:665:ILE:HD11	1.42	0.97
1:C:243:ILE:HD11	1:C:247:VAL:HG21	1.46	0.97
1:C:316:ILE:HD12	1:O:496:LYS:HB3	1.45	0.97
1:G:303:VAL:CG2	1:H:670:GLN:HG2	1.95	0.97
1:C:381:THR:HG23	1:C:394:ILE:HG13	1.46	0.97
1:F:381:THR:HG23	1:F:394:ILE:HG13	1.46	0.97
1:G:305:GLY:HA2	1:H:670:GLN:HE21	0.82	0.97
1:I:305:GLY:HA2	1:J:670:GLN:CG	1.95	0.97
1:C:517:THR:HG23	1:O:199:LYS:O	1.65	0.97
1:G:308:GLU:OE2	1:H:667:SER:HB3	1.65	0.96
1:F:243:ILE:HD11	1:F:247:VAL:HG21	1.46	0.96
1:O:243:ILE:HD11	1:O:247:VAL:HG21	1.46	0.96
1:I:243:ILE:HD11	1:I:247:VAL:HG21	1.46	0.96
1:I:305:GLY:HA2	1:J:670:GLN:HE21	1.30	0.96
1:L:243:ILE:HD11	1:L:247:VAL:HG21	1.46	0.95
1:B:243:ILE:HD11	1:B:247:VAL:HG21	1.46	0.95
1:I:381:THR:HG23	1:I:394:ILE:HG13	1.46	0.95
1:M:243:ILE:HD11	1:M:247:VAL:HG21	1.46	0.95
1:G:243:ILE:HD11	1:G:247:VAL:HG21	1.46	0.95
1:H:243:ILE:HD11	1:H:247:VAL:HG21	1.46	0.95
1:J:381:THR:HG23	1:J:394:ILE:HG13	1.46	0.95
1:D:243:ILE:HD11	1:D:247:VAL:HG21	1.46	0.95
1:G:381:THR:HG23	1:G:394:ILE:HG13	1.46	0.95
1:L:381:THR:HG23	1:L:394:ILE:HG13	1.46	0.95
1:J:243:ILE:HD11	1:J:247:VAL:HG21	1.46	0.94
1:M:381:THR:HG23	1:M:394:ILE:HG13	1.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:243:ILE:HD11	1:K:247:VAL:HG21	1.46	0.94
1:H:318:GLY:HA2	1:I:410:TYR:CE1	2.03	0.94
1:K:381:THR:HG23	1:K:394:ILE:HG13	1.46	0.94
1:A:496:LYS:HB3	1:F:316:ILE:HD12	1.50	0.94
1:G:306:ASN:HA	1:H:669:ARG:HB3	1.48	0.94
1:A:316:ILE:HD12	1:B:496:LYS:HD3	1.47	0.94
1:G:245:LYS:HE3	1:M:512:ASP:OD1	1.68	0.93
1:A:200:ARG:HB3	1:F:178:ARG:NH1	1.83	0.93
1:G:308:GLU:OE2	1:H:667:SER:OG	1.87	0.93
1:D:670:GLN:CD	1:O:305:GLY:HA2	1.94	0.92
1:E:403:GLN:NE2	1:E:403:GLN:H	1.67	0.92
1:F:403:GLN:NE2	1:F:403:GLN:H	1.68	0.92
1:L:305:GLY:HA2	1:M:670:GLN:HG3	1.48	0.92
1:H:403:GLN:NE2	1:H:403:GLN:H	1.68	0.92
2:m:1056:ALA:HA	2:m:1114:PRO:HB2	1.52	0.92
2:l:1056:ALA:HA	2:l:1114:PRO:HB2	1.52	0.92
1:C:189:VAL:HG13	1:O:199:LYS:HG3	1.52	0.92
1:G:305:GLY:CA	1:H:670:GLN:NE2	2.22	0.92
2:o:1056:ALA:HA	2:o:1114:PRO:HB2	1.52	0.92
1:D:403:GLN:NE2	1:D:403:GLN:H	1.68	0.92
1:H:319:SER:HA	1:I:414:LYS:HG3	1.49	0.92
2:j:1056:ALA:HA	2:j:1114:PRO:HB2	1.52	0.92
1:G:403:GLN:NE2	1:G:403:GLN:H	1.68	0.92
1:O:403:GLN:NE2	1:O:403:GLN:H	1.68	0.92
1:L:305:GLY:CA	1:M:670:GLN:CG	2.47	0.92
1:B:178:ARG:NH1	1:C:200:ARG:HB3	1.85	0.91
1:I:403:GLN:NE2	1:I:403:GLN:H	1.68	0.91
2:f:1056:ALA:HA	2:f:1114:PRO:HB2	1.52	0.91
1:I:305:GLY:CA	1:J:670:GLN:HE21	1.82	0.91
1:K:403:GLN:NE2	1:K:403:GLN:H	1.67	0.91
1:K:305:GLY:CA	1:L:670:GLN:NE2	2.31	0.91
1:L:403:GLN:NE2	1:L:403:GLN:H	1.67	0.91
1:M:403:GLN:NE2	1:M:403:GLN:H	1.67	0.91
1:A:403:GLN:NE2	1:A:403:GLN:H	1.68	0.91
2:h:1056:ALA:HA	2:h:1114:PRO:HB2	1.52	0.91
2:k:1056:ALA:HA	2:k:1114:PRO:HB2	1.52	0.91
1:B:403:GLN:NE2	1:B:403:GLN:H	1.68	0.91
1:J:403:GLN:NE2	1:J:403:GLN:H	1.67	0.91
2:c:1056:ALA:HA	2:c:1114:PRO:HB2	1.52	0.90
1:H:483:GLN:HE21	1:I:469:VAL:HG21	1.25	0.90
1:H:513:PRO:HG2	1:I:239:VAL:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:271:LEU:HD12	1:K:289:ILE:HD11	1.54	0.90
1:L:305:GLY:CA	1:M:670:GLN:HG3	2.02	0.90
1:C:271:LEU:HD12	1:C:289:ILE:HD11	1.54	0.90
1:D:271:LEU:HD12	1:D:289:ILE:HD11	1.54	0.90
1:G:316:ILE:HD12	1:H:496:LYS:CB	2.02	0.90
1:E:271:LEU:HD12	1:E:289:ILE:HD11	1.54	0.90
1:M:271:LEU:HD12	1:M:289:ILE:HD11	1.54	0.90
2:i:1056:ALA:HA	2:i:1114:PRO:HB2	1.52	0.90
2:b:1056:ALA:HA	2:b:1114:PRO:HB2	1.52	0.90
1:C:403:GLN:NE2	1:C:403:GLN:H	1.68	0.90
1:O:271:LEU:HD12	1:O:289:ILE:HD11	1.54	0.90
1:B:319:SER:N	1:C:414:LYS:HG3	1.86	0.89
1:D:521:MET:HA	1:D:521:MET:HE3	1.55	0.89
1:L:271:LEU:HD12	1:L:289:ILE:HD11	1.54	0.89
2:a:1056:ALA:HA	2:a:1114:PRO:HB2	1.52	0.89
1:C:521:MET:HA	1:C:521:MET:HE3	1.54	0.89
1:O:521:MET:HA	1:O:521:MET:HE3	1.55	0.89
1:O:508:VAL:HG12	1:O:518:LYS:HB2	1.55	0.89
1:A:521:MET:HA	1:A:521:MET:HE3	1.54	0.89
1:B:271:LEU:HD12	1:B:289:ILE:HD11	1.54	0.89
1:I:271:LEU:HD12	1:I:289:ILE:HD11	1.54	0.89
1:L:403:GLN:H	1:L:403:GLN:HE21	1.20	0.89
1:A:403:GLN:H	1:A:403:GLN:HE21	1.20	0.89
2:e:1056:ALA:HA	2:e:1114:PRO:HB2	1.52	0.89
1:F:271:LEU:HD12	1:F:289:ILE:HD11	1.54	0.89
1:G:508:VAL:HG12	1:G:518:LYS:HB2	1.55	0.89
1:G:521:MET:HA	1:G:521:MET:HE3	1.54	0.89
1:H:508:VAL:HG12	1:H:518:LYS:HB2	1.55	0.89
1:J:341:ALA:HB3	2:j:1154:LEU:H	1.38	0.89
1:J:521:MET:HE3	1:J:521:MET:HA	1.54	0.89
1:L:305:GLY:CA	1:M:670:GLN:HE21	1.81	0.89
1:L:305:GLY:C	1:M:670:GLN:HG3	1.97	0.89
2:g:1056:ALA:HA	2:g:1114:PRO:HB2	1.52	0.89
1:J:271:LEU:HD12	1:J:289:ILE:HD11	1.54	0.89
1:A:271:LEU:HD12	1:A:289:ILE:HD11	1.54	0.89
1:A:508:VAL:HG12	1:A:518:LYS:HB2	1.55	0.89
1:E:521:MET:HA	1:E:521:MET:HE3	1.55	0.89
1:G:271:LEU:HD12	1:G:289:ILE:HD11	1.54	0.89
1:G:308:GLU:HA	1:H:668:LEU:O	1.73	0.89
1:H:271:LEU:HD12	1:H:289:ILE:HD11	1.54	0.89
1:J:423:ALA:O	1:J:424:GLN:HG3	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:521:MET:HA	1:F:521:MET:HE3	1.54	0.89
1:K:341:ALA:HB3	2:k:1154:LEU:H	1.38	0.89
1:D:423:ALA:O	1:D:424:GLN:HG3	1.73	0.88
1:I:341:ALA:HB3	2:i:1154:LEU:H	1.38	0.88
2:d:1056:ALA:HA	2:d:1114:PRO:HB2	1.52	0.88
1:E:508:VAL:HG12	1:E:518:LYS:HB2	1.55	0.88
1:K:397:LYS:H	1:K:397:LYS:CE	1.87	0.88
1:L:341:ALA:HB3	2:l:1154:LEU:H	1.38	0.88
1:O:423:ALA:O	1:O:424:GLN:HG3	1.73	0.88
1:D:508:VAL:HG12	1:D:518:LYS:HB2	1.55	0.88
1:O:341:ALA:HB3	2:o:1154:LEU:H	1.38	0.88
1:A:341:ALA:HB3	2:a:1154:LEU:H	1.38	0.88
1:B:397:LYS:H	1:B:397:LYS:CE	1.87	0.88
1:B:423:ALA:O	1:B:424:GLN:HG3	1.74	0.88
1:G:397:LYS:H	1:G:397:LYS:CE	1.86	0.88
1:H:341:ALA:HB3	2:h:1154:LEU:H	1.38	0.88
1:K:508:VAL:HG12	1:K:518:LYS:HB2	1.55	0.88
1:L:423:ALA:O	1:L:424:GLN:HG3	1.73	0.88
1:C:397:LYS:H	1:C:397:LYS:CE	1.86	0.88
1:F:341:ALA:HB3	2:f:1154:LEU:H	1.38	0.88
1:J:319:SER:N	1:K:414:LYS:HG3	1.87	0.88
1:J:508:VAL:HG12	1:J:518:LYS:HB2	1.55	0.88
1:B:341:ALA:HB3	2:b:1154:LEU:H	1.38	0.88
1:G:341:ALA:HB3	2:g:1154:LEU:H	1.38	0.88
1:I:423:ALA:O	1:I:424:GLN:HG3	1.73	0.88
1:I:521:MET:HA	1:I:521:MET:HE3	1.55	0.88
1:J:397:LYS:H	1:J:397:LYS:CE	1.87	0.88
1:E:397:LYS:H	1:E:397:LYS:CE	1.86	0.88
1:H:423:ALA:O	1:H:424:GLN:HG3	1.73	0.88
1:I:508:VAL:HG12	1:I:518:LYS:HB2	1.55	0.88
1:D:397:LYS:H	1:D:397:LYS:CE	1.86	0.88
1:E:341:ALA:HB3	2:e:1154:LEU:H	1.38	0.88
1:K:423:ALA:O	1:K:424:GLN:HG3	1.73	0.88
1:L:397:LYS:H	1:L:397:LYS:CE	1.86	0.87
1:G:403:GLN:H	1:G:403:GLN:HE21	1.20	0.87
1:C:423:ALA:O	1:C:424:GLN:HG3	1.73	0.87
1:F:397:LYS:H	1:F:397:LYS:CE	1.87	0.87
1:M:521:MET:HA	1:M:521:MET:HE3	1.54	0.87
1:E:178:ARG:NH1	1:F:200:ARG:HB3	1.89	0.87
1:M:341:ALA:HB3	2:m:1154:LEU:H	1.38	0.87
1:M:397:LYS:H	1:M:397:LYS:CE	1.86	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:423:ALA:O	1:M:424:GLN:HG3	1.73	0.87
1:B:523:LEU:HD21	1:B:552:PHE:HE2	1.40	0.87
1:D:341:ALA:HB3	2:d:1154:LEU:H	1.38	0.87
1:F:423:ALA:O	1:F:424:GLN:HG3	1.73	0.87
1:I:397:LYS:H	1:I:397:LYS:CE	1.86	0.87
1:M:508:VAL:HG12	1:M:518:LYS:HB2	1.55	0.87
1:D:403:GLN:H	1:D:403:GLN:HE21	1.20	0.87
1:H:521:MET:HA	1:H:521:MET:HE3	1.54	0.87
1:J:314:PHE:HZ	1:K:670:GLN:O	1.56	0.87
1:L:521:MET:HA	1:L:521:MET:HE3	1.54	0.87
1:I:316:ILE:HD12	1:J:496:LYS:HB3	1.56	0.87
1:A:423:ALA:O	1:A:424:GLN:HG3	1.73	0.87
1:B:521:MET:HE3	1:B:521:MET:HA	1.54	0.87
1:G:303:VAL:HG23	1:H:670:GLN:HG2	1.53	0.87
1:E:423:ALA:O	1:E:424:GLN:HG3	1.73	0.87
1:G:423:ALA:O	1:G:424:GLN:HG3	1.74	0.87
1:A:397:LYS:H	1:A:397:LYS:CE	1.86	0.86
1:L:523:LEU:HD21	1:L:552:PHE:HE2	1.40	0.86
1:O:397:LYS:H	1:O:397:LYS:CE	1.86	0.86
1:F:508:VAL:HG12	1:F:518:LYS:HB2	1.55	0.86
1:H:397:LYS:H	1:H:397:LYS:CE	1.86	0.86
1:J:403:GLN:H	1:J:403:GLN:HE21	1.20	0.86
1:M:403:GLN:H	1:M:403:GLN:HE21	1.20	0.86
1:L:508:VAL:HG12	1:L:518:LYS:HB2	1.55	0.86
1:B:508:VAL:HG12	1:B:518:LYS:HB2	1.55	0.86
1:K:521:MET:HA	1:K:521:MET:HE3	1.54	0.86
1:G:469:VAL:HG21	1:M:483:GLN:HE21	1.36	0.86
1:H:403:GLN:H	1:H:403:GLN:HE21	1.20	0.86
1:E:361:ASN:HD21	1:E:423:ALA:HB2	1.41	0.86
1:G:523:LEU:HD21	1:G:552:PHE:HE2	1.40	0.86
1:J:523:LEU:HD21	1:J:552:PHE:HE2	1.40	0.86
1:K:607:ALA:H	1:K:638:ILE:HD12	1.41	0.86
1:M:607:ALA:H	1:M:638:ILE:HD12	1.41	0.86
1:O:361:ASN:HD21	1:O:423:ALA:HB2	1.41	0.86
1:O:523:LEU:HD21	1:O:552:PHE:HE2	1.40	0.86
1:F:607:ALA:H	1:F:638:ILE:HD12	1.41	0.86
1:L:607:ALA:H	1:L:638:ILE:HD12	1.41	0.86
1:C:341:ALA:HB3	2:c:1154:LEU:H	1.38	0.85
1:C:607:ALA:H	1:C:638:ILE:HD12	1.41	0.85
1:M:523:LEU:HD21	1:M:552:PHE:HE2	1.40	0.85
1:F:243:ILE:HG12	1:F:244:ASP:N	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:VAL:HG12	1:C:518:LYS:HB2	1.55	0.85
1:E:394:ILE:HG21	1:E:421:LEU:HD22	1.59	0.85
1:A:394:ILE:HG21	1:A:421:LEU:HD22	1.59	0.85
1:L:243:ILE:HG12	1:L:244:ASP:N	1.91	0.85
1:A:523:LEU:HD21	1:A:552:PHE:HE2	1.40	0.85
1:D:243:ILE:HG12	1:D:244:ASP:N	1.91	0.85
1:O:394:ILE:HG21	1:O:421:LEU:HD22	1.59	0.85
1:K:403:GLN:H	1:K:403:GLN:HE21	1.20	0.85
1:L:394:ILE:HG21	1:L:421:LEU:HD22	1.59	0.85
1:B:243:ILE:HG12	1:B:244:ASP:N	1.91	0.85
1:I:243:ILE:HG12	1:I:244:ASP:N	1.91	0.85
1:K:394:ILE:HG21	1:K:421:LEU:HD22	1.59	0.85
1:C:523:LEU:HD21	1:C:552:PHE:HE2	1.40	0.85
1:D:607:ALA:H	1:D:638:ILE:HD12	1.41	0.85
1:H:523:LEU:HD21	1:H:552:PHE:HE2	1.40	0.85
1:K:361:ASN:HD21	1:K:423:ALA:HB2	1.41	0.85
1:H:607:ALA:H	1:H:638:ILE:HD12	1.41	0.85
1:I:607:ALA:H	1:I:638:ILE:HD12	1.41	0.85
1:F:394:ILE:HG21	1:F:421:LEU:HD22	1.59	0.85
1:C:394:ILE:HG21	1:C:421:LEU:HD22	1.59	0.84
1:D:361:ASN:HD21	1:D:423:ALA:HB2	1.41	0.84
1:I:361:ASN:HD21	1:I:423:ALA:HB2	1.41	0.84
1:J:243:ILE:HG12	1:J:244:ASP:N	1.91	0.84
1:O:403:GLN:H	1:O:403:GLN:HE21	1.20	0.84
1:B:403:GLN:H	1:B:403:GLN:HE21	1.20	0.84
1:G:394:ILE:HG21	1:G:421:LEU:HD22	1.59	0.84
1:K:523:LEU:HD21	1:K:552:PHE:HE2	1.40	0.84
1:B:361:ASN:HD21	1:B:423:ALA:HB2	1.41	0.84
1:G:607:ALA:H	1:G:638:ILE:HD12	1.41	0.84
1:H:319:SER:HA	1:I:414:LYS:CB	2.07	0.84
1:L:483:GLN:NE2	1:M:469:VAL:HG21	1.93	0.84
1:E:523:LEU:HD21	1:E:552:PHE:HE2	1.40	0.84
1:I:523:LEU:HD21	1:I:552:PHE:HE2	1.40	0.84
1:O:243:ILE:HG12	1:O:244:ASP:N	1.91	0.84
1:A:361:ASN:HD21	1:A:423:ALA:HB2	1.41	0.84
1:F:403:GLN:H	1:F:403:GLN:HE21	1.21	0.84
1:J:361:ASN:HD21	1:J:423:ALA:HB2	1.41	0.84
1:F:523:LEU:HD21	1:F:552:PHE:HE2	1.40	0.84
1:D:523:LEU:HD21	1:D:552:PHE:HE2	1.40	0.84
1:I:403:GLN:H	1:I:403:GLN:HE21	1.20	0.84
1:J:607:ALA:H	1:J:638:ILE:HD12	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:394:ILE:HG21	1:H:421:LEU:HD22	1.59	0.83
1:E:607:ALA:H	1:E:638:ILE:HD12	1.41	0.83
1:H:243:ILE:HG12	1:H:244:ASP:N	1.91	0.83
1:I:394:ILE:HG21	1:I:421:LEU:HD22	1.59	0.83
1:J:394:ILE:HG21	1:J:421:LEU:HD22	1.59	0.83
1:L:361:ASN:HD21	1:L:423:ALA:HB2	1.41	0.83
1:E:243:ILE:HG12	1:E:244:ASP:N	1.91	0.83
1:G:513:PRO:HG2	1:H:239:VAL:O	1.79	0.83
1:M:361:ASN:HD21	1:M:423:ALA:HB2	1.41	0.83
1:M:394:ILE:HG21	1:M:421:LEU:HD22	1.59	0.83
1:G:361:ASN:HD21	1:G:423:ALA:HB2	1.41	0.83
1:G:306:ASN:HA	1:H:669:ARG:CB	2.08	0.83
2:o:1060:ILE:HG13	2:o:1064:ASN:HD21	1.44	0.83
1:B:607:ALA:H	1:B:638:ILE:HD12	1.41	0.83
1:C:243:ILE:HG12	1:C:244:ASP:N	1.91	0.83
1:C:361:ASN:HD21	1:C:423:ALA:HB2	1.41	0.83
1:D:178:ARG:NH1	1:E:200:ARG:HB3	1.93	0.83
1:D:394:ILE:HG21	1:D:421:LEU:HD22	1.59	0.83
1:E:403:GLN:H	1:E:403:GLN:HE21	1.20	0.83
1:F:361:ASN:HD21	1:F:423:ALA:HB2	1.41	0.83
1:G:468:ARG:HD3	1:M:480:VAL:HG21	1.60	0.83
1:H:361:ASN:HD21	1:H:423:ALA:HB2	1.41	0.83
2:k:1060:ILE:HG13	2:k:1064:ASN:HD21	1.44	0.83
1:B:394:ILE:HG21	1:B:421:LEU:HD22	1.59	0.83
1:E:224:GLU:OE2	1:F:201:THR:HG23	1.79	0.83
1:O:607:ALA:H	1:O:638:ILE:HD12	1.41	0.83
1:A:243:ILE:HG12	1:A:244:ASP:N	1.91	0.82
1:A:496:LYS:HB3	1:F:316:ILE:CD1	2.09	0.82
1:G:243:ILE:HG12	1:G:244:ASP:N	1.91	0.82
1:G:468:ARG:HH22	1:M:232:PRO:HA	1.44	0.82
1:M:243:ILE:HG12	1:M:244:ASP:N	1.91	0.82
1:C:403:GLN:H	1:C:403:GLN:HE21	1.20	0.82
1:K:305:GLY:HA2	1:L:670:GLN:CD	2.05	0.82
1:A:607:ALA:H	1:A:638:ILE:HD12	1.41	0.82
2:a:1060:ILE:HG13	2:a:1064:ASN:HD21	1.44	0.82
1:I:305:GLY:HA2	1:J:670:GLN:CD	2.03	0.82
2:b:1099:ARG:HA	2:b:1102:ILE:HB	1.62	0.82
1:I:316:ILE:HD11	1:J:496:LYS:HB3	1.61	0.82
2:i:1060:ILE:HG13	2:i:1064:ASN:HD21	1.44	0.82
2:l:1099:ARG:HA	2:l:1102:ILE:HB	1.62	0.82
1:A:201:THR:HG23	1:F:224:GLU:OE2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:GLN:CD	1:I:469:VAL:HG21	2.04	0.82
1:K:513:PRO:HG2	1:L:239:VAL:O	1.78	0.82
2:b:1060:ILE:HG13	2:b:1064:ASN:HD21	1.44	0.82
2:d:1060:ILE:HG13	2:d:1064:ASN:HD21	1.44	0.82
2:h:1099:ARG:HA	2:h:1102:ILE:HB	1.62	0.82
2:a:1099:ARG:HA	2:a:1102:ILE:HB	1.62	0.82
2:c:1060:ILE:HG13	2:c:1064:ASN:HD21	1.44	0.82
2:c:1099:ARG:HA	2:c:1102:ILE:HB	1.62	0.82
2:f:1099:ARG:HA	2:f:1102:ILE:HB	1.62	0.82
2:d:1099:ARG:HA	2:d:1102:ILE:HB	1.62	0.81
1:G:305:GLY:HA2	1:H:670:GLN:CD	2.05	0.81
2:k:1099:ARG:HA	2:k:1102:ILE:HB	1.62	0.81
2:e:1099:ARG:HA	2:e:1102:ILE:HB	1.62	0.81
2:j:1060:ILE:HG13	2:j:1064:ASN:HD21	1.44	0.81
1:L:480:VAL:HG21	1:M:468:ARG:HH11	1.46	0.81
1:G:316:ILE:CD1	1:H:496:LYS:HD3	2.10	0.81
1:B:319:SER:H	1:C:414:LYS:CG	1.90	0.81
1:K:243:ILE:HG12	1:K:244:ASP:N	1.91	0.81
1:G:466:ASN:HB2	1:M:226:TRP:CD2	2.15	0.81
2:f:1060:ILE:HG13	2:f:1064:ASN:HD21	1.44	0.81
2:g:1099:ARG:HA	2:g:1102:ILE:HB	1.62	0.81
1:G:414:LYS:HD2	1:M:319:SER:OG	1.81	0.81
1:I:513:PRO:HG2	1:J:239:VAL:O	1.81	0.81
1:J:380:THR:HG23	1:J:395:LYS:HB2	1.63	0.81
1:B:380:THR:HG23	1:B:395:LYS:HB2	1.63	0.80
2:h:1060:ILE:HG13	2:h:1064:ASN:HD21	1.44	0.80
2:l:1060:ILE:HG13	2:l:1064:ASN:HD21	1.44	0.80
1:O:380:THR:HG23	1:O:395:LYS:HB2	1.63	0.80
1:A:308:GLU:OE2	1:B:667:SER:HB3	1.80	0.80
1:H:513:PRO:HB2	1:I:240:THR:O	1.81	0.80
1:C:380:THR:HG23	1:C:395:LYS:HB2	1.63	0.80
1:G:232:PRO:HG3	1:G:459:ILE:HD13	1.64	0.80
1:L:305:GLY:HA3	1:M:670:GLN:NE2	1.96	0.80
1:O:232:PRO:HG3	1:O:459:ILE:HD13	1.64	0.80
1:G:380:THR:HG23	1:G:395:LYS:HB2	1.63	0.80
2:m:1060:ILE:HG13	2:m:1064:ASN:HD21	1.44	0.80
1:E:232:PRO:HG3	1:E:459:ILE:HD13	1.64	0.80
1:E:524:LYS:HD2	1:E:579:ASP:HB3	1.64	0.80
1:F:524:LYS:HD2	1:F:579:ASP:HB3	1.64	0.80
1:D:524:LYS:HD2	1:D:579:ASP:HB3	1.64	0.80
1:E:380:THR:HG23	1:E:395:LYS:HB2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:1060:ILE:HG13	2:e:1064:ASN:HD21	1.44	0.80
1:A:316:ILE:CD1	1:B:496:LYS:HD3	2.12	0.80
1:A:380:THR:HG23	1:A:395:LYS:HB2	1.63	0.80
1:A:423:ALA:O	1:A:424:GLN:CG	2.30	0.80
1:C:524:LYS:HD2	1:C:579:ASP:HB3	1.64	0.80
1:D:423:ALA:O	1:D:424:GLN:CG	2.30	0.80
1:I:305:GLY:CA	1:J:670:GLN:NE2	2.42	0.80
1:L:316:ILE:HD12	1:M:496:LYS:CD	2.10	0.80
1:M:423:ALA:O	1:M:424:GLN:CG	2.30	0.80
2:m:1099:ARG:HA	2:m:1102:ILE:HB	1.62	0.80
1:J:423:ALA:O	1:J:424:GLN:CG	2.30	0.80
1:L:524:LYS:HD2	1:L:579:ASP:HB3	1.64	0.80
1:B:524:LYS:HD2	1:B:579:ASP:HB3	1.64	0.80
1:G:524:LYS:HD2	1:G:579:ASP:HB3	1.64	0.80
2:g:1060:ILE:HG13	2:g:1064:ASN:HD21	1.44	0.80
1:L:232:PRO:HG3	1:L:459:ILE:HD13	1.64	0.80
1:M:380:THR:HG23	1:M:395:LYS:HB2	1.63	0.80
1:O:240:THR:HG23	1:O:242:ARG:H	1.47	0.80
1:I:232:PRO:HG3	1:I:459:ILE:HD13	1.64	0.79
1:I:380:THR:HG23	1:I:395:LYS:HB2	1.63	0.79
2:i:1099:ARG:HA	2:i:1102:ILE:HB	1.62	0.79
1:M:524:LYS:HD2	1:M:579:ASP:HB3	1.64	0.79
1:H:423:ALA:O	1:H:424:GLN:CG	2.30	0.79
1:I:524:LYS:HD2	1:I:579:ASP:HB3	1.64	0.79
2:o:1099:ARG:HA	2:o:1102:ILE:HB	1.62	0.79
1:A:240:THR:HG23	1:A:242:ARG:H	1.47	0.79
1:B:232:PRO:HG3	1:B:459:ILE:HD13	1.64	0.79
1:G:240:THR:HG23	1:G:242:ARG:H	1.47	0.79
1:A:232:PRO:HG3	1:A:459:ILE:HD13	1.64	0.79
1:C:232:PRO:HG3	1:C:459:ILE:HD13	1.64	0.79
1:F:380:THR:HG23	1:F:395:LYS:HB2	1.63	0.79
1:H:319:SER:H	1:I:414:LYS:CG	1.90	0.79
1:H:479:GLU:OE1	1:I:470:ARG:HG3	1.83	0.79
1:K:423:ALA:O	1:K:424:GLN:CG	2.30	0.79
1:B:423:ALA:O	1:B:424:GLN:CG	2.30	0.79
1:D:380:THR:HG23	1:D:395:LYS:HB2	1.63	0.79
1:E:423:ALA:O	1:E:424:GLN:CG	2.30	0.79
1:I:240:THR:HG23	1:I:242:ARG:H	1.47	0.79
1:L:380:THR:HG23	1:L:395:LYS:HB2	1.63	0.79
1:C:178:ARG:HH12	1:O:200:ARG:HB3	1.44	0.79
1:E:200:ARG:HD2	1:E:200:ARG:N	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:200:ARG:HD2	1:H:200:ARG:N	1.98	0.79
2:j:1099:ARG:HA	2:j:1102:ILE:HB	1.62	0.79
2:l:1072:ARG:HG2	2:l:1210:ILE:HD13	1.65	0.79
2:m:1072:ARG:HG2	2:m:1210:ILE:HD13	1.65	0.79
1:D:200:ARG:N	1:D:200:ARG:HD2	1.98	0.79
1:H:380:THR:HG23	1:H:395:LYS:HB2	1.63	0.79
1:H:524:LYS:HD2	1:H:579:ASP:HB3	1.64	0.79
1:I:423:ALA:O	1:I:424:GLN:CG	2.30	0.79
1:K:200:ARG:HD2	1:K:200:ARG:N	1.98	0.79
1:K:240:THR:HG23	1:K:242:ARG:H	1.47	0.79
2:o:1072:ARG:HG2	2:o:1210:ILE:HD13	1.65	0.79
1:A:305:GLY:HA2	1:B:670:GLN:HG3	1.62	0.79
1:F:232:PRO:HG3	1:F:459:ILE:HD13	1.64	0.79
1:F:240:THR:HG23	1:F:242:ARG:H	1.47	0.79
1:G:414:LYS:CG	1:M:319:SER:N	2.18	0.79
2:k:1072:ARG:HG2	2:k:1210:ILE:HD13	1.65	0.79
1:A:524:LYS:HD2	1:A:579:ASP:HB3	1.64	0.79
1:C:200:ARG:N	1:C:200:ARG:HD2	1.98	0.79
1:D:469:VAL:HG21	1:O:483:GLN:NE2	1.98	0.79
1:F:423:ALA:O	1:F:424:GLN:CG	2.30	0.79
1:D:240:THR:HG23	1:D:242:ARG:H	1.47	0.79
1:G:200:ARG:N	1:G:200:ARG:HD2	1.98	0.79
1:L:423:ALA:O	1:L:424:GLN:CG	2.30	0.79
1:G:466:ASN:HA	1:M:226:TRP:CD1	2.17	0.78
1:K:524:LYS:HD2	1:K:579:ASP:HB3	1.64	0.78
1:L:318:GLY:HA2	1:M:410:TYR:CE1	2.17	0.78
1:C:240:THR:HG23	1:C:242:ARG:H	1.47	0.78
1:C:423:ALA:O	1:C:424:GLN:CG	2.30	0.78
1:O:524:LYS:HD2	1:O:579:ASP:HB3	1.64	0.78
2:d:1072:ARG:HG2	2:d:1210:ILE:HD13	1.65	0.78
1:G:423:ALA:O	1:G:424:GLN:CG	2.30	0.78
1:J:200:ARG:HD2	1:J:200:ARG:N	1.98	0.78
2:j:1072:ARG:HG2	2:j:1210:ILE:HD13	1.65	0.78
1:M:232:PRO:HG3	1:M:459:ILE:HD13	1.64	0.78
1:O:423:ALA:O	1:O:424:GLN:CG	2.30	0.78
1:H:232:PRO:HG3	1:H:459:ILE:HD13	1.64	0.78
1:L:188:GLU:HG3	1:L:221:SER:OG	1.84	0.78
1:C:194:VAL:HG22	1:C:203:LEU:HA	1.66	0.78
1:C:316:ILE:CD1	1:O:496:LYS:HB3	2.12	0.78
2:c:1175:CYS:HB3	2:c:1186:LEU:HD22	1.66	0.78
1:J:194:VAL:HG22	1:J:203:LEU:HA	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:1175:CYS:HB3	2:l:1186:LEU:HD22	1.66	0.78
1:G:194:VAL:HG22	1:G:203:LEU:HA	1.66	0.78
1:I:316:ILE:CD1	1:J:496:LYS:HD3	2.13	0.78
1:K:194:VAL:HG22	1:K:203:LEU:HA	1.66	0.78
1:M:200:ARG:HD2	1:M:200:ARG:N	1.98	0.78
1:O:200:ARG:N	1:O:200:ARG:HD2	1.98	0.78
1:O:605:VAL:HG12	1:O:704:GLU:HB3	1.66	0.78
1:E:188:GLU:HG3	1:E:221:SER:OG	1.84	0.78
1:F:200:ARG:N	1:F:200:ARG:HD2	1.98	0.78
1:H:605:VAL:HG12	1:H:704:GLU:HB3	1.66	0.78
2:i:1175:CYS:HB3	2:i:1186:LEU:HD22	1.66	0.78
1:J:188:GLU:HG3	1:J:221:SER:OG	1.84	0.78
1:J:240:THR:HG23	1:J:242:ARG:H	1.47	0.78
1:K:232:PRO:HG3	1:K:459:ILE:HD13	1.64	0.78
1:K:380:THR:HG23	1:K:395:LYS:HB2	1.63	0.78
1:B:341:ALA:HB2	2:b:1153:GLY:HA3	1.66	0.78
1:D:232:PRO:HG3	1:D:459:ILE:HD13	1.64	0.78
2:e:1072:ARG:HG2	2:e:1210:ILE:HD13	1.65	0.78
1:H:240:THR:HG23	1:H:242:ARG:H	1.47	0.78
1:J:341:ALA:HB2	2:j:1153:GLY:HA3	1.66	0.78
1:A:605:VAL:HG12	1:A:704:GLU:HB3	1.66	0.78
1:C:188:GLU:HG3	1:C:221:SER:OG	1.84	0.78
1:C:377:VAL:HG13	1:C:398:GLU:HG3	1.66	0.78
1:D:341:ALA:HB2	2:d:1153:GLY:HA3	1.66	0.78
1:G:466:ASN:HA	1:M:226:TRP:CG	2.19	0.78
1:I:200:ARG:N	1:I:200:ARG:HD2	1.98	0.78
1:L:200:ARG:N	1:L:200:ARG:HD2	1.98	0.78
1:A:200:ARG:N	1:A:200:ARG:HD2	1.98	0.77
1:E:240:THR:HG23	1:E:242:ARG:H	1.47	0.77
1:H:194:VAL:HG22	1:H:203:LEU:HA	1.66	0.77
1:J:524:LYS:HD2	1:J:579:ASP:HB3	1.64	0.77
1:O:188:GLU:HG3	1:O:221:SER:OG	1.84	0.77
1:A:194:VAL:HG22	1:A:203:LEU:HA	1.66	0.77
2:a:1175:CYS:HB3	2:a:1186:LEU:HD22	1.66	0.77
1:B:200:ARG:HD2	1:B:200:ARG:N	1.98	0.77
1:B:377:VAL:HG13	1:B:398:GLU:HG3	1.66	0.77
1:C:341:ALA:HB2	2:c:1153:GLY:HA3	1.66	0.77
2:f:1072:ARG:HG2	2:f:1210:ILE:HD13	1.65	0.77
1:B:240:THR:HG23	1:B:242:ARG:H	1.47	0.77
1:B:605:VAL:HG12	1:B:704:GLU:HB3	1.66	0.77
2:i:1072:ARG:HG2	2:i:1210:ILE:HD13	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:188:GLU:HG3	1:M:221:SER:OG	1.84	0.77
1:A:377:VAL:HG13	1:A:398:GLU:HG3	1.66	0.77
2:b:1072:ARG:HG2	2:b:1210:ILE:HD13	1.65	0.77
2:c:1072:ARG:HG2	2:c:1210:ILE:HD13	1.65	0.77
1:H:188:GLU:HG3	1:H:221:SER:OG	1.84	0.77
1:K:377:VAL:HG13	1:K:398:GLU:HG3	1.66	0.77
1:M:240:THR:HG23	1:M:242:ARG:H	1.47	0.77
1:O:377:VAL:HG13	1:O:398:GLU:HG3	1.66	0.77
1:D:188:GLU:HG3	1:D:221:SER:OG	1.84	0.77
1:F:188:GLU:HG3	1:F:221:SER:OG	1.84	0.77
1:H:377:VAL:HG13	1:H:398:GLU:HG3	1.66	0.77
1:J:232:PRO:HG3	1:J:459:ILE:HD13	1.64	0.77
1:O:194:VAL:HG22	1:O:203:LEU:HA	1.66	0.77
2:a:1072:ARG:HG2	2:a:1210:ILE:HD13	1.65	0.77
1:C:189:VAL:HG13	1:O:199:LYS:CG	2.14	0.77
2:g:1146:LEU:HD13	2:g:1176:VAL:HB	1.67	0.77
2:j:1146:LEU:HD13	2:j:1176:VAL:HB	1.67	0.77
2:j:1175:CYS:HB3	2:j:1186:LEU:HD22	1.66	0.77
1:M:605:VAL:HG12	1:M:704:GLU:HB3	1.66	0.77
1:H:318:GLY:CA	1:I:410:TYR:CE1	2.67	0.77
1:A:200:ARG:HB3	1:F:178:ARG:CZ	2.15	0.77
1:C:605:VAL:HG12	1:C:704:GLU:HB3	1.66	0.77
1:F:341:ALA:HB2	2:f:1153:GLY:HA3	1.66	0.77
2:h:1072:ARG:HG2	2:h:1210:ILE:HD13	1.65	0.77
1:K:188:GLU:HG3	1:K:221:SER:OG	1.84	0.77
1:L:240:THR:HG23	1:L:242:ARG:H	1.47	0.77
1:A:188:GLU:HG3	1:A:221:SER:OG	1.84	0.77
1:D:496:LYS:HD3	1:O:316:ILE:HD12	1.66	0.77
1:H:480:VAL:HG21	1:I:468:ARG:HD3	1.66	0.77
1:K:341:ALA:HB2	2:k:1153:GLY:HA3	1.66	0.77
1:B:188:GLU:HG3	1:B:221:SER:OG	1.84	0.77
1:F:194:VAL:HG22	1:F:203:LEU:HA	1.66	0.77
1:G:316:ILE:HD11	1:H:496:LYS:HB3	1.66	0.77
2:h:1175:CYS:HB3	2:h:1186:LEU:HD22	1.66	0.77
1:I:341:ALA:HB2	2:i:1153:GLY:HA3	1.66	0.77
1:I:377:VAL:HG13	1:I:398:GLU:HG3	1.66	0.77
2:i:1146:LEU:HD13	2:i:1176:VAL:HB	1.67	0.77
1:L:516:THR:HG21	1:M:196:VAL:HG21	1.66	0.77
1:F:605:VAL:HG12	1:F:704:GLU:HB3	1.66	0.76
1:I:188:GLU:HG3	1:I:221:SER:OG	1.84	0.76
1:I:605:VAL:HG12	1:I:704:GLU:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:605:VAL:HG12	1:J:704:GLU:HB3	1.66	0.76
1:K:605:VAL:HG12	1:K:704:GLU:HB3	1.66	0.76
1:L:194:VAL:HG22	1:L:203:LEU:HA	1.66	0.76
2:b:1059:TRP:HB2	2:b:1114:PRO:HG2	1.68	0.76
2:b:1146:LEU:HD13	2:b:1176:VAL:HB	1.67	0.76
2:f:1146:LEU:HD13	2:f:1176:VAL:HB	1.67	0.76
2:b:1175:CYS:HB3	2:b:1186:LEU:HD22	1.66	0.76
1:G:188:GLU:HG3	1:G:221:SER:OG	1.84	0.76
1:L:605:VAL:HG12	1:L:704:GLU:HB3	1.66	0.76
1:M:194:VAL:HG22	1:M:203:LEU:HA	1.66	0.76
2:o:1175:CYS:HB3	2:o:1186:LEU:HD22	1.66	0.76
2:c:1146:LEU:HD13	2:c:1176:VAL:HB	1.67	0.76
2:g:1072:ARG:HG2	2:g:1210:ILE:HD13	1.65	0.76
1:J:319:SER:H	1:K:414:LYS:CG	1.93	0.76
1:O:341:ALA:HB2	2:o:1153:GLY:HA3	1.66	0.76
2:o:1059:TRP:HB2	2:o:1114:PRO:HG2	1.68	0.76
1:E:377:VAL:HG13	1:E:398:GLU:HG3	1.66	0.76
1:F:377:VAL:HG13	1:F:398:GLU:HG3	1.66	0.76
1:G:605:VAL:HG12	1:G:704:GLU:HB3	1.66	0.76
2:g:1175:CYS:HB3	2:g:1186:LEU:HD22	1.66	0.76
2:b:1162:GLU:HA	2:b:1165:ILE:HD12	1.68	0.76
2:k:1059:TRP:HB2	2:k:1114:PRO:HG2	1.68	0.76
1:M:397:LYS:HE3	1:M:397:LYS:N	1.99	0.76
2:a:1162:GLU:HA	2:a:1165:ILE:HD12	1.68	0.76
2:e:1162:GLU:HA	2:e:1165:ILE:HD12	1.68	0.76
1:G:397:LYS:HD2	1:G:400:GLN:NE2	2.01	0.76
1:A:341:ALA:HB2	2:a:1153:GLY:HA3	1.66	0.76
1:B:224:GLU:OE2	1:C:201:THR:HG23	1.84	0.76
2:c:1043:PHE:HB2	2:c:1078:MET:SD	2.26	0.76
2:c:1162:GLU:HA	2:c:1165:ILE:HD12	1.68	0.76
2:d:1175:CYS:HB3	2:d:1186:LEU:HD22	1.66	0.76
2:f:1175:CYS:HB3	2:f:1186:LEU:HD22	1.66	0.76
1:G:470:ARG:HG3	1:M:479:GLU:OE1	1.86	0.76
2:g:1059:TRP:HB2	2:g:1114:PRO:HG2	1.68	0.76
2:h:1162:GLU:HA	2:h:1165:ILE:HD12	1.68	0.76
1:L:341:ALA:HB2	2:l:1153:GLY:HA3	1.66	0.76
1:L:377:VAL:HG13	1:L:398:GLU:HG3	1.66	0.76
1:C:397:LYS:HD2	1:C:400:GLN:NE2	2.01	0.76
1:D:377:VAL:HG13	1:D:398:GLU:HG3	1.66	0.76
1:D:605:VAL:HG12	1:D:704:GLU:HB3	1.66	0.76
1:E:341:ALA:HB2	2:e:1153:GLY:HA3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:605:VAL:HG12	1:E:704:GLU:HB3	1.66	0.76
2:e:1059:TRP:HB2	2:e:1114:PRO:HG2	1.68	0.76
2:e:1175:CYS:HB3	2:e:1186:LEU:HD22	1.66	0.76
1:I:397:LYS:HD2	1:I:400:GLN:NE2	2.01	0.76
1:J:377:VAL:HG13	1:J:398:GLU:HG3	1.66	0.76
2:m:1175:CYS:HB3	2:m:1186:LEU:HD22	1.66	0.76
2:c:1059:TRP:HB2	2:c:1114:PRO:HG2	1.68	0.76
2:e:1043:PHE:HB2	2:e:1078:MET:SD	2.26	0.76
2:h:1146:LEU:HD13	2:h:1176:VAL:HB	1.67	0.76
1:K:521:MET:HE1	1:K:525:GLU:HG2	1.68	0.76
1:L:521:MET:HE1	1:L:525:GLU:HG2	1.68	0.76
1:M:377:VAL:HG13	1:M:398:GLU:HG3	1.66	0.76
1:B:194:VAL:HG22	1:B:203:LEU:HA	1.66	0.75
2:d:1043:PHE:HB2	2:d:1078:MET:SD	2.26	0.75
1:E:194:VAL:HG22	1:E:203:LEU:HA	1.66	0.75
1:E:397:LYS:HE3	1:E:397:LYS:N	1.99	0.75
1:G:341:ALA:HB2	2:g:1153:GLY:HA3	1.66	0.75
1:G:521:MET:HE1	1:G:525:GLU:HG2	1.68	0.75
2:g:1043:PHE:HB2	2:g:1078:MET:SD	2.26	0.75
1:H:521:MET:HE1	1:H:525:GLU:HG2	1.68	0.75
2:i:1043:PHE:HB2	2:i:1078:MET:SD	2.26	0.75
2:j:1162:GLU:HA	2:j:1165:ILE:HD12	1.68	0.75
2:k:1162:GLU:HA	2:k:1165:ILE:HD12	1.68	0.75
2:k:1175:CYS:HB3	2:k:1186:LEU:HD22	1.66	0.75
2:m:1059:TRP:HB2	2:m:1114:PRO:HG2	1.68	0.75
1:O:397:LYS:HD2	1:O:400:GLN:NE2	2.01	0.75
1:D:194:VAL:HG22	1:D:203:LEU:HA	1.66	0.75
2:f:1043:PHE:HB2	2:f:1078:MET:SD	2.26	0.75
1:G:316:ILE:CD1	1:H:496:LYS:CB	2.59	0.75
2:a:1146:LEU:HD13	2:a:1176:VAL:HB	1.67	0.75
2:i:1162:GLU:HA	2:i:1165:ILE:HD12	1.68	0.75
1:J:521:MET:HE1	1:J:525:GLU:HG2	1.68	0.75
2:o:1043:PHE:HB2	2:o:1078:MET:SD	2.26	0.75
1:B:397:LYS:HD2	1:B:400:GLN:NE2	2.01	0.75
2:g:1162:GLU:HA	2:g:1165:ILE:HD12	1.68	0.75
2:j:1043:PHE:HB2	2:j:1078:MET:SD	2.26	0.75
2:l:1146:LEU:HD13	2:l:1176:VAL:HB	1.67	0.75
1:M:397:LYS:HD2	1:M:400:GLN:NE2	2.01	0.75
2:m:1043:PHE:HB2	2:m:1078:MET:SD	2.26	0.75
2:m:1146:LEU:HD13	2:m:1176:VAL:HB	1.67	0.75
2:o:1146:LEU:HD13	2:o:1176:VAL:HB	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:ARG:HB3	1:F:178:ARG:HH12	1.52	0.75
2:f:1162:GLU:HA	2:f:1165:ILE:HD12	1.68	0.75
1:G:377:VAL:HG13	1:G:398:GLU:HG3	1.66	0.75
1:I:194:VAL:HG22	1:I:203:LEU:HA	1.66	0.75
1:K:316:ILE:HD11	1:L:496:LYS:HB3	1.68	0.75
1:L:397:LYS:HD2	1:L:400:GLN:NE2	2.01	0.75
1:H:341:ALA:HB2	2:h:1153:GLY:HA3	1.66	0.75
1:J:397:LYS:HD2	1:J:400:GLN:NE2	2.01	0.75
1:K:397:LYS:HD2	1:K:400:GLN:NE2	2.01	0.75
2:a:1059:TRP:HB2	2:a:1114:PRO:HG2	1.68	0.75
1:I:238:LYS:HB3	1:I:252:ARG:O	1.87	0.75
2:l:1162:GLU:HA	2:l:1165:ILE:HD12	1.68	0.75
2:b:1043:PHE:HB2	2:b:1078:MET:SD	2.26	0.75
1:C:224:GLU:OE2	1:O:201:THR:N	2.19	0.75
2:e:1146:LEU:HD13	2:e:1176:VAL:HB	1.67	0.75
2:f:1059:TRP:HB2	2:f:1114:PRO:HG2	1.68	0.75
2:l:1043:PHE:HB2	2:l:1078:MET:SD	2.26	0.75
1:M:341:ALA:HB2	2:m:1153:GLY:HA3	1.66	0.75
2:a:1043:PHE:HB2	2:a:1078:MET:SD	2.26	0.75
2:d:1162:GLU:HA	2:d:1165:ILE:HD12	1.68	0.75
1:E:521:MET:HE1	1:E:525:GLU:HG2	1.68	0.75
2:h:1043:PHE:HB2	2:h:1078:MET:SD	2.26	0.75
1:A:178:ARG:HH12	1:B:200:ARG:HB3	1.52	0.74
1:B:521:MET:HE1	1:B:525:GLU:HG2	1.68	0.74
1:G:316:ILE:HD12	1:H:496:LYS:HD3	1.67	0.74
2:h:1059:TRP:HB2	2:h:1114:PRO:HG2	1.68	0.74
1:I:397:LYS:HE3	1:I:397:LYS:N	1.99	0.74
2:k:1146:LEU:HD13	2:k:1176:VAL:HB	1.67	0.74
1:L:238:LYS:HB3	1:L:252:ARG:O	1.87	0.74
1:M:238:LYS:HB3	1:M:252:ARG:O	1.87	0.74
1:A:397:LYS:HD2	1:A:400:GLN:NE2	2.01	0.74
1:D:521:MET:HE1	1:D:525:GLU:HG2	1.68	0.74
1:E:238:LYS:HB3	1:E:252:ARG:O	1.87	0.74
1:J:238:LYS:HB3	1:J:252:ARG:O	1.87	0.74
1:O:397:LYS:HE3	1:O:397:LYS:N	1.99	0.74
1:B:238:LYS:HB3	1:B:252:ARG:O	1.87	0.74
1:D:397:LYS:HD2	1:D:400:GLN:NE2	2.01	0.74
1:D:670:GLN:NE2	1:O:305:GLY:HA2	2.02	0.74
1:F:397:LYS:HD2	1:F:400:GLN:NE2	2.01	0.74
1:I:521:MET:HE1	1:I:525:GLU:HG2	1.68	0.74
2:l:1059:TRP:HB2	2:l:1114:PRO:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:238:LYS:HB3	1:O:252:ARG:O	1.87	0.74
2:d:1059:TRP:HB2	2:d:1114:PRO:HG2	1.68	0.74
1:I:318:GLY:HA2	1:J:410:TYR:CE1	2.22	0.74
1:K:305:GLY:HA2	1:L:670:GLN:HG3	1.70	0.74
1:D:238:LYS:HB3	1:D:252:ARG:O	1.87	0.74
2:i:1059:TRP:HB2	2:i:1114:PRO:HG2	1.68	0.74
1:J:479:GLU:HG2	1:K:471:VAL:HG23	1.68	0.74
2:k:1043:PHE:HB2	2:k:1078:MET:SD	2.26	0.74
1:A:238:LYS:HB3	1:A:252:ARG:O	1.87	0.74
1:B:178:ARG:CZ	1:C:200:ARG:HB3	2.17	0.74
1:E:397:LYS:HD2	1:E:400:GLN:NE2	2.01	0.74
1:F:523:LEU:HD21	1:F:552:PHE:CE2	2.23	0.74
1:E:517:THR:HG23	1:F:199:LYS:O	1.88	0.74
1:F:238:LYS:HB3	1:F:252:ARG:O	1.87	0.74
1:I:523:LEU:HD21	1:I:552:PHE:CE2	2.23	0.74
1:H:397:LYS:HD2	1:H:400:GLN:NE2	2.01	0.74
2:j:1059:TRP:HB2	2:j:1114:PRO:HG2	1.67	0.74
1:A:521:MET:HE1	1:A:525:GLU:HG2	1.68	0.74
2:d:1146:LEU:HD13	2:d:1176:VAL:HB	1.67	0.74
1:G:238:LYS:HB3	1:G:252:ARG:O	1.87	0.74
1:H:523:LEU:HD21	1:H:552:PHE:CE2	2.23	0.74
1:J:483:GLN:NE2	1:K:469:VAL:HG21	2.02	0.74
1:H:305:GLY:HA2	1:I:670:GLN:CG	2.18	0.74
1:I:365:ARG:NH2	1:I:418:PRO:HG3	2.03	0.74
1:B:523:LEU:HD21	1:B:552:PHE:CE2	2.23	0.73
1:D:468:ARG:HH11	1:O:480:VAL:HG21	1.52	0.73
1:J:314:PHE:CZ	1:K:670:GLN:O	2.41	0.73
2:m:1162:GLU:HA	2:m:1165:ILE:HD12	1.68	0.73
2:o:1162:GLU:HA	2:o:1165:ILE:HD12	1.68	0.73
1:F:521:MET:HE1	1:F:525:GLU:HG2	1.68	0.73
1:J:523:LEU:HD21	1:J:552:PHE:CE2	2.23	0.73
1:L:523:LEU:HD21	1:L:552:PHE:CE2	2.23	0.73
1:M:521:MET:HE1	1:M:525:GLU:HG2	1.68	0.73
1:K:305:GLY:HA2	1:L:670:GLN:CG	2.17	0.73
1:M:523:LEU:HD21	1:M:552:PHE:CE2	2.23	0.73
1:O:521:MET:HE1	1:O:525:GLU:HG2	1.68	0.73
1:B:365:ARG:NH2	1:B:418:PRO:HG3	2.04	0.73
1:C:365:ARG:NH2	1:C:418:PRO:HG3	2.04	0.73
1:D:178:ARG:HH12	1:E:200:ARG:HB3	1.51	0.73
1:K:316:ILE:CD1	1:L:496:LYS:HD3	2.17	0.73
1:C:238:LYS:HB3	1:C:252:ARG:O	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:365:ARG:NH2	1:G:418:PRO:HG3	2.03	0.73
1:I:305:GLY:CA	1:J:670:GLN:HG3	2.19	0.73
1:M:365:ARG:NH2	1:M:418:PRO:HG3	2.03	0.73
1:H:365:ARG:NH2	1:H:418:PRO:HG3	2.03	0.73
1:J:365:ARG:NH2	1:J:418:PRO:HG3	2.04	0.73
1:E:523:LEU:HD21	1:E:552:PHE:CE2	2.23	0.73
1:O:523:LEU:HD21	1:O:552:PHE:CE2	2.23	0.73
1:D:410:TYR:CE1	1:O:318:GLY:HA2	2.24	0.73
1:J:397:LYS:HE3	1:J:397:LYS:N	1.99	0.73
1:A:523:LEU:HD21	1:A:552:PHE:CE2	2.23	0.73
1:H:238:LYS:HB3	1:H:252:ARG:O	1.87	0.73
1:G:517:THR:HG23	1:H:199:LYS:O	1.89	0.73
1:L:703:LYS:O	1:L:706:THR:HG22	1.89	0.73
1:M:703:LYS:O	1:M:706:THR:HG22	1.89	0.73
1:F:365:ARG:NH2	1:F:418:PRO:HG3	2.03	0.72
1:D:365:ARG:NH2	1:D:418:PRO:HG3	2.03	0.72
1:L:397:LYS:HE3	1:L:397:LYS:N	1.99	0.72
1:O:703:LYS:O	1:O:706:THR:HG22	1.89	0.72
1:C:521:MET:HE1	1:C:525:GLU:HG2	1.68	0.72
1:F:703:LYS:O	1:F:706:THR:HG22	1.89	0.72
1:J:703:LYS:O	1:J:706:THR:HG22	1.89	0.72
1:A:199:LYS:O	1:F:517:THR:HG23	1.88	0.72
1:A:670:GLN:NE2	1:F:305:GLY:HA2	2.05	0.72
1:E:236:PHE:O	1:E:240:THR:HG22	1.90	0.72
1:H:703:LYS:O	1:H:706:THR:HG22	1.89	0.72
1:K:523:LEU:HD21	1:K:552:PHE:CE2	2.23	0.72
1:L:236:PHE:O	1:L:240:THR:HG22	1.90	0.72
1:B:703:LYS:O	1:B:706:THR:HG22	1.89	0.72
1:E:365:ARG:NH2	1:E:418:PRO:HG3	2.03	0.72
1:K:703:LYS:O	1:K:706:THR:HG22	1.89	0.72
1:O:365:ARG:NH2	1:O:418:PRO:HG3	2.03	0.72
1:I:223:PRO:HD2	1:I:517:THR:HG22	1.72	0.72
1:L:365:ARG:NH2	1:L:418:PRO:HG3	2.04	0.72
1:M:236:PHE:O	1:M:240:THR:HG22	1.90	0.72
1:E:703:LYS:O	1:E:706:THR:HG22	1.89	0.72
1:G:223:PRO:HD2	1:G:517:THR:HG22	1.72	0.72
1:K:238:LYS:HB3	1:K:252:ARG:O	1.87	0.72
1:A:236:PHE:O	1:A:240:THR:HG22	1.90	0.72
2:a:1074:VAL:HA	2:a:1099:ARG:NH2	2.05	0.72
1:C:223:PRO:HD2	1:C:517:THR:HG22	1.72	0.72
2:d:1074:VAL:HA	2:d:1099:ARG:NH2	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:1074:VAL:HA	2:e:1099:ARG:NH2	2.05	0.72
1:F:397:LYS:HE3	1:F:397:LYS:N	1.99	0.72
1:J:226:TRP:CD1	1:K:466:ASN:HA	2.23	0.72
1:K:365:ARG:NH2	1:K:418:PRO:HG3	2.03	0.72
1:O:236:PHE:O	1:O:240:THR:HG22	1.90	0.72
1:C:397:LYS:HD2	1:C:400:GLN:HE22	1.55	0.72
1:C:523:LEU:HD21	1:C:552:PHE:CE2	2.23	0.72
1:D:236:PHE:O	1:D:240:THR:HG22	1.90	0.72
2:h:1074:VAL:HA	2:h:1099:ARG:NH2	2.05	0.72
1:K:223:PRO:HD2	1:K:517:THR:HG22	1.72	0.72
1:B:178:ARG:HH12	1:C:200:ARG:HB3	1.53	0.72
1:H:236:PHE:O	1:H:240:THR:HG22	1.90	0.72
1:K:308:GLU:OE2	1:L:667:SER:HB3	1.90	0.72
1:K:397:LYS:HE3	1:K:397:LYS:N	1.99	0.72
1:A:365:ARG:NH2	1:A:418:PRO:HG3	2.04	0.71
1:A:703:LYS:O	1:A:706:THR:HG22	1.89	0.71
2:b:1074:VAL:HA	2:b:1099:ARG:NH2	2.05	0.71
1:G:236:PHE:O	1:G:240:THR:HG22	1.90	0.71
1:H:223:PRO:HD2	1:H:517:THR:HG22	1.72	0.71
1:I:703:LYS:O	1:I:706:THR:HG22	1.89	0.71
1:C:224:GLU:OE2	1:O:201:THR:CG2	2.34	0.71
1:D:397:LYS:HD2	1:D:400:GLN:HE22	1.55	0.71
1:J:223:PRO:HD2	1:J:517:THR:HG22	1.72	0.71
2:l:1074:VAL:HA	2:l:1099:ARG:NH2	2.05	0.71
1:K:316:ILE:HD12	1:L:496:LYS:CB	2.18	0.71
1:L:223:PRO:HD2	1:L:517:THR:HG22	1.72	0.71
1:D:523:LEU:HD21	1:D:552:PHE:CE2	2.23	0.71
1:D:703:LYS:O	1:D:706:THR:HG22	1.89	0.71
1:E:397:LYS:HD2	1:E:400:GLN:HE22	1.55	0.71
1:F:236:PHE:O	1:F:240:THR:HG22	1.90	0.71
1:G:523:LEU:HD21	1:G:552:PHE:CE2	2.23	0.71
1:H:483:GLN:HE21	1:I:469:VAL:CG2	2.03	0.71
2:k:1074:VAL:HA	2:k:1099:ARG:NH2	2.05	0.71
1:M:223:PRO:HD2	1:M:517:THR:HG22	1.72	0.71
1:A:316:ILE:HD12	1:B:496:LYS:HB3	1.73	0.71
1:A:394:ILE:HG21	1:A:421:LEU:CD2	2.21	0.71
1:F:394:ILE:HG21	1:F:421:LEU:CD2	2.21	0.71
1:C:703:LYS:O	1:C:706:THR:HG22	1.89	0.71
2:f:1074:VAL:HA	2:f:1099:ARG:NH2	2.05	0.71
1:G:703:LYS:O	1:G:706:THR:HG22	1.89	0.71
2:i:1074:VAL:HA	2:i:1099:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:397:LYS:HD2	1:L:400:GLN:HE22	1.55	0.71
1:M:397:LYS:HD2	1:M:400:GLN:HE22	1.55	0.71
1:G:378:LEU:HD13	1:G:401:LEU:HD21	1.73	0.71
1:H:378:LEU:HD13	1:H:401:LEU:HD21	1.73	0.71
1:J:394:ILE:HG21	1:J:421:LEU:CD2	2.21	0.71
2:j:1074:VAL:HA	2:j:1099:ARG:NH2	2.05	0.71
1:O:397:LYS:HD2	1:O:400:GLN:HE22	1.55	0.71
1:B:236:PHE:O	1:B:240:THR:HG22	1.90	0.71
1:E:494:ASN:OD1	1:E:592:ARG:HA	1.91	0.71
1:F:659:ARG:HA	1:F:716:THR:O	1.91	0.71
1:K:236:PHE:O	1:K:240:THR:HG22	1.90	0.71
2:m:1074:VAL:HA	2:m:1099:ARG:NH2	2.05	0.71
1:F:223:PRO:HD2	1:F:517:THR:HG22	1.72	0.71
1:F:494:ASN:OD1	1:F:592:ARG:HA	1.91	0.71
1:H:659:ARG:HA	1:H:716:THR:O	1.91	0.71
1:K:378:LEU:HD13	1:K:401:LEU:HD21	1.73	0.71
1:K:397:LYS:HD2	1:K:400:GLN:HE22	1.55	0.71
1:L:494:ASN:OD1	1:L:592:ARG:HA	1.91	0.71
1:L:659:ARG:HA	1:L:716:THR:O	1.91	0.71
1:M:494:ASN:OD1	1:M:592:ARG:HA	1.91	0.71
1:M:659:ARG:HA	1:M:716:THR:O	1.91	0.71
1:B:659:ARG:HA	1:B:716:THR:O	1.91	0.71
1:E:223:PRO:HD2	1:E:517:THR:HG22	1.72	0.71
1:H:319:SER:OG	1:I:414:LYS:CE	2.37	0.71
1:I:397:LYS:HD2	1:I:400:GLN:HE22	1.55	0.71
1:I:659:ARG:HA	1:I:716:THR:O	1.91	0.71
2:o:1074:VAL:HA	2:o:1099:ARG:NH2	2.05	0.71
1:C:236:PHE:O	1:C:240:THR:HG22	1.90	0.70
1:C:378:LEU:HD13	1:C:401:LEU:HD21	1.73	0.70
1:C:494:ASN:OD1	1:C:592:ARG:HA	1.91	0.70
2:c:1074:VAL:HA	2:c:1099:ARG:NH2	2.05	0.70
1:H:378:LEU:CD1	1:H:401:LEU:HD21	2.21	0.70
1:J:397:LYS:HD2	1:J:400:GLN:HE22	1.55	0.70
1:A:378:LEU:HD13	1:A:401:LEU:HD21	1.73	0.70
1:C:189:VAL:CG1	1:O:199:LYS:CG	2.69	0.70
1:C:378:LEU:CD1	1:C:401:LEU:HD21	2.21	0.70
2:g:1074:VAL:HA	2:g:1099:ARG:NH2	2.05	0.70
1:J:236:PHE:O	1:J:240:THR:HG22	1.90	0.70
1:O:223:PRO:HD2	1:O:517:THR:HG22	1.72	0.70
1:C:659:ARG:HA	1:C:716:THR:O	1.91	0.70
1:H:397:LYS:HE3	1:H:397:LYS:N	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:378:LEU:HD13	1:I:401:LEU:HD21	1.73	0.70
1:O:394:ILE:HG21	1:O:421:LEU:CD2	2.21	0.70
1:A:659:ARG:HA	1:A:716:THR:O	1.91	0.70
1:B:378:LEU:HD13	1:B:401:LEU:HD21	1.73	0.70
1:H:305:GLY:HA2	1:I:670:GLN:HG2	1.72	0.70
1:H:397:LYS:HD2	1:H:400:GLN:HE22	1.55	0.70
1:L:306:ASN:N	1:M:670:GLN:HG3	2.06	0.70
1:L:378:LEU:HD13	1:L:401:LEU:HD21	1.73	0.70
1:A:494:ASN:OD1	1:A:592:ARG:HA	1.91	0.70
1:B:397:LYS:HD2	1:B:400:GLN:HE22	1.55	0.70
1:E:394:ILE:HG21	1:E:421:LEU:CD2	2.21	0.70
1:G:414:LYS:CB	1:M:319:SER:CA	2.67	0.70
1:I:494:ASN:OD1	1:I:592:ARG:HA	1.91	0.70
1:J:659:ARG:HA	1:J:716:THR:O	1.91	0.70
1:K:303:VAL:CG2	1:L:670:GLN:HG2	2.20	0.70
1:L:199:LYS:H	1:L:200:ARG:HD2	1.57	0.70
1:A:223:PRO:HD2	1:A:517:THR:HG22	1.72	0.70
1:A:378:LEU:CD1	1:A:401:LEU:HD21	2.21	0.70
1:B:378:LEU:CD1	1:B:401:LEU:HD21	2.21	0.70
1:D:199:LYS:H	1:D:200:ARG:HD2	1.57	0.70
1:E:659:ARG:HA	1:E:716:THR:O	1.91	0.70
1:G:199:LYS:H	1:G:200:ARG:HD2	1.57	0.70
1:G:397:LYS:HD2	1:G:400:GLN:HE22	1.55	0.70
1:I:394:ILE:HG21	1:I:421:LEU:CD2	2.21	0.70
1:I:505:ILE:HD11	1:I:530:ALA:HB2	1.74	0.70
1:J:378:LEU:CD1	1:J:401:LEU:HD21	2.21	0.70
1:J:378:LEU:HD13	1:J:401:LEU:HD21	1.73	0.70
1:B:394:ILE:HG21	1:B:421:LEU:CD2	2.21	0.70
1:C:394:ILE:HG21	1:C:421:LEU:CD2	2.21	0.70
1:C:505:ILE:HD11	1:C:530:ALA:HB2	1.74	0.70
1:G:378:LEU:CD1	1:G:401:LEU:HD21	2.21	0.70
1:G:494:ASN:OD1	1:G:592:ARG:HA	1.91	0.70
1:G:659:ARG:HA	1:G:716:THR:O	1.91	0.70
1:K:308:GLU:OE2	1:L:667:SER:CB	2.40	0.70
1:M:378:LEU:CD1	1:M:401:LEU:HD21	2.21	0.70
1:B:223:PRO:HD2	1:B:517:THR:HG22	1.72	0.70
1:D:378:LEU:CD1	1:D:401:LEU:HD21	2.21	0.70
1:D:394:ILE:HG21	1:D:421:LEU:CD2	2.21	0.70
1:E:378:LEU:CD1	1:E:401:LEU:HD21	2.21	0.70
1:K:394:ILE:HG21	1:K:421:LEU:CD2	2.21	0.70
1:L:394:ILE:HG21	1:L:421:LEU:CD2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:505:ILE:HD11	1:D:530:ALA:HB2	1.74	0.70
1:F:378:LEU:CD1	1:F:401:LEU:HD21	2.21	0.70
2:j:1047:PHE:HE1	2:j:1080:LEU:HD22	1.57	0.70
1:L:378:LEU:CD1	1:L:401:LEU:HD21	2.21	0.70
1:M:378:LEU:HD13	1:M:401:LEU:HD21	1.73	0.70
1:O:659:ARG:HA	1:O:716:THR:O	1.91	0.70
1:A:397:LYS:HE3	1:A:397:LYS:N	1.99	0.70
1:E:178:ARG:CZ	1:F:200:ARG:HB3	2.21	0.70
1:E:378:LEU:HD13	1:E:401:LEU:HD21	1.73	0.70
1:G:394:ILE:HG21	1:G:421:LEU:CD2	2.21	0.70
1:H:394:ILE:HG21	1:H:421:LEU:CD2	2.21	0.70
1:H:494:ASN:OD1	1:H:592:ARG:HA	1.91	0.70
1:K:659:ARG:HA	1:K:716:THR:O	1.91	0.70
1:O:199:LYS:H	1:O:200:ARG:HD2	1.57	0.70
1:O:378:LEU:CD1	1:O:401:LEU:HD21	2.21	0.70
2:b:1047:PHE:HE1	2:b:1080:LEU:HD22	1.57	0.69
1:D:494:ASN:OD1	1:D:592:ARG:HA	1.91	0.69
1:J:494:ASN:OD1	1:J:592:ARG:HA	1.91	0.69
1:K:494:ASN:OD1	1:K:592:ARG:HA	1.91	0.69
1:L:505:ILE:HD11	1:L:530:ALA:HB2	1.74	0.69
1:A:308:GLU:OE2	1:B:667:SER:CB	2.40	0.69
1:A:505:ILE:HD11	1:A:530:ALA:HB2	1.74	0.69
2:d:1047:PHE:HE1	2:d:1080:LEU:HD22	1.57	0.69
1:E:199:LYS:H	1:E:200:ARG:HD2	1.57	0.69
1:F:397:LYS:HD2	1:F:400:GLN:HE22	1.55	0.69
2:f:1047:PHE:HE1	2:f:1080:LEU:HD22	1.57	0.69
1:K:505:ILE:HD11	1:K:530:ALA:HB2	1.74	0.69
1:L:318:GLY:HA2	1:M:410:TYR:HE1	1.55	0.69
1:M:394:ILE:HG21	1:M:421:LEU:CD2	2.21	0.69
1:O:494:ASN:OD1	1:O:592:ARG:HA	1.91	0.69
1:O:505:ILE:HD11	1:O:530:ALA:HB2	1.74	0.69
1:B:397:LYS:HE3	1:B:397:LYS:N	1.99	0.69
1:B:494:ASN:OD1	1:B:592:ARG:HA	1.91	0.69
1:G:415:ASN:HB3	1:M:321:SER:HB3	1.73	0.69
1:H:319:SER:CA	1:I:414:LYS:CG	2.59	0.69
1:I:199:LYS:H	1:I:200:ARG:HD2	1.57	0.69
1:I:236:PHE:O	1:I:240:THR:HG22	1.90	0.69
1:J:505:ILE:HD11	1:J:530:ALA:HB2	1.74	0.69
1:A:397:LYS:HD2	1:A:400:GLN:HE22	1.55	0.69
1:D:223:PRO:HD2	1:D:517:THR:HG22	1.72	0.69
1:E:481:LEU:H	1:E:482:PRO:CD	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:378:LEU:HD13	1:F:401:LEU:HD21	1.73	0.69
1:B:199:LYS:H	1:B:200:ARG:HD2	1.57	0.69
1:B:481:LEU:H	1:B:482:PRO:CD	2.06	0.69
1:G:397:LYS:HE3	1:G:397:LYS:N	1.99	0.69
1:H:199:LYS:H	1:H:200:ARG:HD2	1.57	0.69
1:I:378:LEU:CD1	1:I:401:LEU:HD21	2.21	0.69
1:L:481:LEU:H	1:L:482:PRO:CD	2.06	0.69
2:m:1047:PHE:HE1	2:m:1080:LEU:HD22	1.57	0.69
1:O:378:LEU:HD13	1:O:401:LEU:HD21	1.73	0.69
1:O:481:LEU:H	1:O:482:PRO:CD	2.06	0.69
1:D:659:ARG:HA	1:D:716:THR:O	1.91	0.69
2:e:1047:PHE:HE1	2:e:1080:LEU:HD22	1.57	0.69
1:J:226:TRP:CD2	1:K:466:ASN:HB2	2.27	0.69
1:A:481:LEU:H	1:A:482:PRO:CD	2.06	0.69
1:E:505:ILE:HD11	1:E:530:ALA:HB2	1.74	0.69
1:G:245:LYS:CE	1:M:512:ASP:OD1	2.41	0.69
1:H:481:LEU:H	1:H:482:PRO:CD	2.06	0.69
1:I:481:LEU:H	1:I:482:PRO:CD	2.06	0.69
2:i:1047:PHE:HE1	2:i:1080:LEU:HD22	1.57	0.69
1:J:262:VAL:HG11	1:J:379:PRO:HG2	1.75	0.69
1:C:397:LYS:HE3	1:C:397:LYS:N	1.99	0.69
2:c:1047:PHE:HE1	2:c:1080:LEU:HD22	1.57	0.69
1:D:262:VAL:HG11	1:D:379:PRO:HG2	1.75	0.69
1:D:481:LEU:H	1:D:482:PRO:CD	2.06	0.69
1:F:199:LYS:H	1:F:200:ARG:HD2	1.57	0.69
1:F:262:VAL:HG11	1:F:379:PRO:HG2	1.75	0.69
1:F:481:LEU:H	1:F:482:PRO:CD	2.06	0.69
1:F:505:ILE:HD11	1:F:530:ALA:HB2	1.74	0.69
1:K:378:LEU:CD1	1:K:401:LEU:HD21	2.21	0.69
1:O:360:LEU:HD12	1:O:361:ASN:H	1.58	0.69
1:G:471:VAL:HG23	1:M:479:GLU:HG2	1.75	0.69
2:g:1047:PHE:HE1	2:g:1080:LEU:HD22	1.57	0.69
1:K:360:LEU:HD12	1:K:361:ASN:H	1.58	0.69
1:K:481:LEU:H	1:K:482:PRO:CD	2.06	0.69
1:M:199:LYS:H	1:M:200:ARG:HD2	1.57	0.69
1:C:178:ARG:NH2	1:O:200:ARG:HB3	2.06	0.69
1:C:199:LYS:H	1:C:200:ARG:HD2	1.57	0.69
1:K:199:LYS:H	1:K:200:ARG:HD2	1.57	0.69
1:L:513:PRO:HG2	1:M:239:VAL:O	1.93	0.69
1:M:481:LEU:H	1:M:482:PRO:CD	2.06	0.69
1:A:316:ILE:HD12	1:B:496:LYS:CD	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1047:PHE:HE1	2:a:1080:LEU:HD22	1.57	0.68
1:D:397:LYS:HE3	1:D:397:LYS:N	1.99	0.68
1:F:366:TYR:CD2	1:F:378:LEU:HD23	2.29	0.68
1:G:468:ARG:CD	1:M:480:VAL:HG21	2.22	0.68
1:H:480:VAL:HG21	1:I:468:ARG:HH11	1.57	0.68
1:I:262:VAL:HG11	1:I:379:PRO:HG2	1.75	0.68
1:A:366:TYR:CD2	1:A:378:LEU:HD23	2.29	0.68
1:B:505:ILE:HD11	1:B:530:ALA:HB2	1.74	0.68
1:E:262:VAL:HG11	1:E:379:PRO:HG2	1.75	0.68
1:E:366:TYR:CD2	1:E:378:LEU:HD23	2.29	0.68
1:G:262:VAL:HG11	1:G:379:PRO:HG2	1.75	0.68
2:h:1047:PHE:HE1	2:h:1080:LEU:HD22	1.57	0.68
1:J:481:LEU:H	1:J:482:PRO:CD	2.06	0.68
1:K:316:ILE:HD12	1:L:496:LYS:HD3	1.75	0.68
1:M:505:ILE:HD11	1:M:530:ALA:HB2	1.74	0.68
1:B:262:VAL:HG11	1:B:379:PRO:HG2	1.75	0.68
1:C:366:TYR:CD2	1:C:378:LEU:HD23	2.28	0.68
1:C:481:LEU:H	1:C:482:PRO:CD	2.06	0.68
1:D:378:LEU:HD13	1:D:401:LEU:HD21	1.73	0.68
2:f:1040:ARG:NH2	2:f:1216:GLN:HB3	2.09	0.68
1:G:481:LEU:H	1:G:482:PRO:CD	2.06	0.68
2:h:1040:ARG:NH2	2:h:1216:GLN:HB3	2.09	0.68
1:B:479:GLU:HG2	1:C:471:VAL:HG23	1.76	0.68
1:C:305:GLY:HA2	1:O:670:GLN:NE2	2.08	0.68
2:d:1040:ARG:NH2	2:d:1216:GLN:HB3	2.09	0.68
1:L:366:TYR:CD2	1:L:378:LEU:HD23	2.29	0.68
2:a:1040:ARG:NH2	2:a:1216:GLN:HB3	2.09	0.68
1:D:360:LEU:HD12	1:D:361:ASN:H	1.58	0.68
2:g:1040:ARG:NH2	2:g:1216:GLN:HB3	2.09	0.68
2:k:1047:PHE:HE1	2:k:1080:LEU:HD22	1.57	0.68
1:C:360:LEU:HD12	1:C:361:ASN:H	1.58	0.68
1:J:199:LYS:H	1:J:200:ARG:HD2	1.57	0.68
1:J:366:TYR:CD2	1:J:378:LEU:HD23	2.29	0.68
2:o:1047:PHE:HE1	2:o:1080:LEU:HD22	1.57	0.68
1:H:483:GLN:NE2	1:I:469:VAL:CG2	2.42	0.68
1:I:178:ARG:NH1	1:J:200:ARG:HB3	2.09	0.68
1:K:306:ASN:HA	1:L:669:ARG:HB3	1.74	0.68
1:D:670:GLN:HG3	1:O:305:GLY:HA2	1.75	0.68
1:K:366:TYR:CD2	1:K:378:LEU:HD23	2.29	0.68
2:l:1047:PHE:HE1	2:l:1080:LEU:HD22	1.57	0.68
1:A:360:LEU:HD12	1:A:361:ASN:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:366:TYR:CD2	1:D:378:LEU:HD23	2.29	0.68
1:E:360:LEU:HD12	1:E:361:ASN:H	1.58	0.68
2:e:1040:ARG:NH2	2:e:1216:GLN:HB3	2.09	0.68
1:K:303:VAL:HG23	1:L:670:GLN:HG2	1.76	0.68
1:L:360:LEU:HD12	1:L:361:ASN:H	1.58	0.68
1:M:360:LEU:HD12	1:M:361:ASN:H	1.58	0.68
2:m:1040:ARG:NH2	2:m:1216:GLN:HB3	2.09	0.68
1:A:199:LYS:H	1:A:200:ARG:HD2	1.57	0.68
1:C:262:VAL:HG11	1:C:379:PRO:HG2	1.75	0.68
1:G:505:ILE:HD11	1:G:530:ALA:HB2	1.74	0.68
1:H:318:GLY:HA2	1:I:410:TYR:CD1	2.28	0.68
1:H:360:LEU:HD12	1:H:361:ASN:H	1.58	0.68
1:H:505:ILE:HD11	1:H:530:ALA:HB2	1.74	0.68
1:I:360:LEU:HD12	1:I:361:ASN:H	1.58	0.68
1:I:366:TYR:CD2	1:I:378:LEU:HD23	2.29	0.68
1:M:366:TYR:CD2	1:M:378:LEU:HD23	2.29	0.68
2:b:1040:ARG:NH2	2:b:1216:GLN:HB3	2.09	0.67
1:G:360:LEU:HD12	1:G:361:ASN:H	1.58	0.67
1:L:262:VAL:HG11	1:L:379:PRO:HG2	1.75	0.67
1:O:366:TYR:CD2	1:O:378:LEU:HD23	2.28	0.67
1:F:360:LEU:HD12	1:F:361:ASN:H	1.58	0.67
1:G:305:GLY:HA2	1:H:670:GLN:CG	2.24	0.67
1:J:360:LEU:HD12	1:J:361:ASN:H	1.58	0.67
2:k:1040:ARG:NH2	2:k:1216:GLN:HB3	2.09	0.67
1:L:183:ILE:HG12	1:L:203:LEU:HD21	1.77	0.67
1:M:183:ILE:HG12	1:M:203:LEU:HD21	1.76	0.67
1:B:366:TYR:CD2	1:B:378:LEU:HD23	2.29	0.67
1:E:401:LEU:HB2	1:E:403:GLN:NE2	2.10	0.67
1:H:366:TYR:CD2	1:H:378:LEU:HD23	2.29	0.67
1:I:401:LEU:HB2	1:I:403:GLN:NE2	2.10	0.67
2:d:1185:GLN:HG3	2:d:1189:ILE:HD11	1.77	0.67
1:F:183:ILE:HG12	1:F:203:LEU:HD21	1.77	0.67
1:H:183:ILE:HG12	1:H:203:LEU:HD21	1.77	0.67
1:L:401:LEU:HB2	1:L:403:GLN:NE2	2.10	0.67
1:M:226:TRP:O	1:M:234:SER:HA	1.95	0.67
1:M:398:GLU:C	1:M:400:GLN:H	2.03	0.67
1:A:226:TRP:O	1:A:234:SER:HA	1.95	0.67
2:c:1040:ARG:NH2	2:c:1216:GLN:HB3	2.09	0.67
1:E:183:ILE:HG12	1:E:203:LEU:HD21	1.77	0.67
1:F:401:LEU:HB2	1:F:403:GLN:NE2	2.10	0.67
1:G:305:GLY:HA2	1:H:670:GLN:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:262:VAL:HG11	1:K:379:PRO:HG2	1.75	0.67
1:O:262:VAL:HG11	1:O:379:PRO:HG2	1.75	0.67
1:A:401:LEU:HB2	1:A:403:GLN:NE2	2.10	0.67
1:G:183:ILE:HG12	1:G:203:LEU:HD21	1.76	0.67
1:G:366:TYR:CD2	1:G:378:LEU:HD23	2.29	0.67
1:H:262:VAL:HG11	1:H:379:PRO:HG2	1.75	0.67
2:l:1040:ARG:NH2	2:l:1216:GLN:HB3	2.09	0.67
1:M:262:VAL:HG11	1:M:379:PRO:HG2	1.75	0.67
1:A:305:GLY:CA	1:B:670:GLN:HG3	2.24	0.67
1:A:308:GLU:HA	1:B:668:LEU:O	1.95	0.67
1:D:183:ILE:HG12	1:D:203:LEU:HD21	1.77	0.67
1:D:496:LYS:HD3	1:O:316:ILE:CD1	2.25	0.67
1:G:398:GLU:C	1:G:400:GLN:H	2.03	0.67
1:H:480:VAL:HG21	1:I:468:ARG:CD	2.25	0.67
2:j:1040:ARG:NH2	2:j:1216:GLN:HB3	2.09	0.67
1:K:398:GLU:C	1:K:400:GLN:H	2.03	0.67
2:l:1185:GLN:HG3	2:l:1189:ILE:HD11	1.77	0.67
1:O:398:GLU:C	1:O:400:GLN:H	2.03	0.67
2:o:1040:ARG:NH2	2:o:1216:GLN:HB3	2.09	0.67
1:A:262:VAL:HG11	1:A:379:PRO:HG2	1.75	0.67
1:A:398:GLU:C	1:A:400:GLN:H	2.03	0.67
1:C:401:LEU:HB2	1:C:403:GLN:NE2	2.10	0.67
1:H:487:THR:CG2	1:I:245:LYS:HG3	2.25	0.67
2:h:1185:GLN:HG3	2:h:1189:ILE:HD11	1.77	0.67
1:K:183:ILE:HG12	1:K:203:LEU:HD21	1.77	0.67
1:F:398:GLU:C	1:F:400:GLN:H	2.03	0.67
1:H:226:TRP:O	1:H:234:SER:HA	1.95	0.67
1:H:401:LEU:HB2	1:H:403:GLN:NE2	2.10	0.67
1:J:183:ILE:HG12	1:J:203:LEU:HD21	1.77	0.67
1:J:266:MET:HA	1:J:364:ILE:HG22	1.77	0.67
1:K:308:GLU:OE2	1:L:667:SER:OG	2.13	0.67
1:L:266:MET:HA	1:L:364:ILE:HG22	1.77	0.67
1:M:401:LEU:HB2	1:M:403:GLN:NE2	2.10	0.67
2:m:1049:LEU:HB2	2:m:1084:VAL:HG12	1.77	0.67
2:m:1185:GLN:HG3	2:m:1189:ILE:HD11	1.77	0.67
1:O:266:MET:HA	1:O:364:ILE:HG22	1.77	0.67
2:o:1185:GLN:HG3	2:o:1189:ILE:HD11	1.77	0.67
1:C:266:MET:HA	1:C:364:ILE:HG22	1.77	0.67
2:d:1049:LEU:HB2	2:d:1084:VAL:HG12	1.77	0.67
2:g:1185:GLN:HG3	2:g:1189:ILE:HD11	1.77	0.67
1:K:266:MET:HA	1:K:364:ILE:HG22	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:259:TYR:CZ	1:M:261:ILE:HD11	2.30	0.67
1:B:259:TYR:CZ	1:B:261:ILE:HD11	2.31	0.66
1:E:259:TYR:CZ	1:E:261:ILE:HD11	2.31	0.66
2:e:1185:GLN:HG3	2:e:1189:ILE:HD11	1.77	0.66
1:H:319:SER:N	1:I:414:LYS:CG	2.50	0.66
2:h:1049:LEU:HB2	2:h:1084:VAL:HG12	1.77	0.66
1:I:316:ILE:HD12	1:J:496:LYS:HD3	1.76	0.66
2:i:1040:ARG:NH2	2:i:1216:GLN:HB3	2.09	0.66
1:J:398:GLU:C	1:J:400:GLN:H	2.03	0.66
1:K:517:THR:HG23	1:L:199:LYS:O	1.95	0.66
2:o:1049:LEU:HB2	2:o:1084:VAL:HG12	1.77	0.66
1:C:226:TRP:O	1:C:234:SER:HA	1.95	0.66
1:F:226:TRP:O	1:F:234:SER:HA	1.95	0.66
2:i:1185:GLN:HG3	2:i:1189:ILE:HD11	1.77	0.66
1:J:259:TYR:CZ	1:J:261:ILE:HD11	2.30	0.66
2:j:1049:LEU:HB2	2:j:1084:VAL:HG12	1.77	0.66
1:K:226:TRP:O	1:K:234:SER:HA	1.95	0.66
1:K:259:TYR:CZ	1:K:261:ILE:HD11	2.30	0.66
1:O:259:TYR:CZ	1:O:261:ILE:HD11	2.30	0.66
1:A:259:TYR:CZ	1:A:261:ILE:HD11	2.31	0.66
1:B:398:GLU:C	1:B:400:GLN:H	2.03	0.66
1:B:401:LEU:HB2	1:B:403:GLN:NE2	2.10	0.66
2:c:1049:LEU:HB2	2:c:1084:VAL:HG12	1.77	0.66
1:E:226:TRP:O	1:E:234:SER:HA	1.95	0.66
1:J:319:SER:HA	1:K:414:LYS:HB3	1.76	0.66
2:k:1049:LEU:HB2	2:k:1084:VAL:HG12	1.77	0.66
2:k:1185:GLN:HG3	2:k:1189:ILE:HD11	1.77	0.66
2:l:1049:LEU:HB2	2:l:1084:VAL:HG12	1.77	0.66
1:M:266:MET:HA	1:M:364:ILE:HG22	1.77	0.66
2:a:1185:GLN:HG3	2:a:1189:ILE:HD11	1.77	0.66
1:D:259:TYR:CZ	1:D:261:ILE:HD11	2.31	0.66
1:J:226:TRP:O	1:J:234:SER:HA	1.95	0.66
1:J:401:LEU:HB2	1:J:403:GLN:NE2	2.10	0.66
1:L:226:TRP:O	1:L:234:SER:HA	1.95	0.66
1:B:226:TRP:O	1:B:234:SER:HA	1.95	0.66
1:B:360:LEU:HD12	1:B:361:ASN:H	1.58	0.66
1:F:259:TYR:CZ	1:F:261:ILE:HD11	2.31	0.66
2:f:1185:GLN:HG3	2:f:1189:ILE:HD11	1.77	0.66
1:G:226:TRP:O	1:G:234:SER:HA	1.95	0.66
1:G:312:SER:HA	1:G:315:ASP:OD2	1.96	0.66
1:J:312:SER:HA	1:J:315:ASP:OD2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:259:TYR:CZ	1:L:261:ILE:HD11	2.30	0.66
1:A:199:LYS:HG3	1:F:189:VAL:HG13	1.78	0.66
1:D:401:LEU:HB2	1:D:403:GLN:NE2	2.10	0.66
1:E:266:MET:HA	1:E:364:ILE:HG22	1.77	0.66
1:G:401:LEU:HB2	1:G:403:GLN:NE2	2.10	0.66
1:H:398:GLU:C	1:H:400:GLN:H	2.03	0.66
1:I:226:TRP:O	1:I:234:SER:HA	1.95	0.66
1:J:442:LEU:HD13	1:J:448:LEU:HD21	1.78	0.66
1:L:312:SER:HA	1:L:315:ASP:OD2	1.96	0.66
2:a:1075:SER:HB3	2:a:1078:MET:HG2	1.78	0.66
1:C:259:TYR:CZ	1:C:261:ILE:HD11	2.30	0.66
2:i:1049:LEU:HB2	2:i:1084:VAL:HG12	1.77	0.66
1:K:308:GLU:HA	1:L:668:LEU:O	1.96	0.66
1:K:312:SER:HA	1:K:315:ASP:OD2	1.96	0.66
1:O:401:LEU:HB2	1:O:403:GLN:NE2	2.10	0.66
2:b:1185:GLN:HG3	2:b:1189:ILE:HD11	1.77	0.66
1:C:442:LEU:HD13	1:C:448:LEU:HD21	1.78	0.66
2:d:1075:SER:HB3	2:d:1078:MET:HG2	1.78	0.66
2:e:1075:SER:HB3	2:e:1078:MET:HG2	1.78	0.66
2:f:1075:SER:HB3	2:f:1078:MET:HG2	1.78	0.66
1:C:312:SER:HA	1:C:315:ASP:OD2	1.96	0.66
2:c:1075:SER:HB3	2:c:1078:MET:HG2	1.78	0.66
2:c:1185:GLN:HG3	2:c:1189:ILE:HD11	1.77	0.66
1:F:584:ASN:O	1:F:587:MET:HB2	1.96	0.66
1:H:319:SER:OG	1:I:414:LYS:HD2	1.96	0.66
1:K:401:LEU:HB2	1:K:403:GLN:NE2	2.10	0.66
1:O:584:ASN:O	1:O:587:MET:HB2	1.96	0.66
1:A:316:ILE:CD1	1:B:496:LYS:HB3	2.26	0.66
1:B:584:ASN:O	1:B:587:MET:HB2	1.96	0.66
1:D:312:SER:HA	1:D:315:ASP:OD2	1.96	0.66
1:G:259:TYR:CZ	1:G:261:ILE:HD11	2.30	0.66
1:G:316:ILE:HD12	1:H:496:LYS:CD	2.26	0.66
1:H:259:TYR:CZ	1:H:261:ILE:HD11	2.31	0.66
1:H:584:ASN:O	1:H:587:MET:HB2	1.96	0.66
1:O:183:ILE:HG12	1:O:203:LEU:HD21	1.77	0.66
1:D:266:MET:HA	1:D:364:ILE:HG22	1.77	0.65
1:D:670:GLN:NE2	1:O:305:GLY:CA	2.59	0.65
1:E:398:GLU:C	1:E:400:GLN:H	2.03	0.65
1:G:584:ASN:O	1:G:587:MET:HB2	1.96	0.65
2:g:1060:ILE:HG13	2:g:1064:ASN:ND2	2.12	0.65
1:I:183:ILE:HG12	1:I:203:LEU:HD21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:178:ARG:NH1	1:K:200:ARG:HB3	2.10	0.65
2:l:1075:SER:HB3	2:l:1078:MET:HG2	1.78	0.65
1:O:312:SER:HA	1:O:315:ASP:OD2	1.96	0.65
2:c:1060:ILE:HG13	2:c:1064:ASN:ND2	2.12	0.65
1:J:314:PHE:HZ	1:K:670:GLN:C	2.04	0.65
1:K:584:ASN:O	1:K:587:MET:HB2	1.96	0.65
1:O:226:TRP:O	1:O:234:SER:HA	1.95	0.65
1:A:183:ILE:HG12	1:A:203:LEU:HD21	1.77	0.65
1:A:312:SER:HA	1:A:315:ASP:OD2	1.96	0.65
1:D:226:TRP:O	1:D:234:SER:HA	1.95	0.65
2:e:1049:LEU:HB2	2:e:1084:VAL:HG12	1.77	0.65
1:F:266:MET:HA	1:F:364:ILE:HG22	1.77	0.65
1:H:312:SER:HA	1:H:315:ASP:OD2	1.96	0.65
1:M:312:SER:HA	1:M:315:ASP:OD2	1.96	0.65
1:M:584:ASN:O	1:M:587:MET:HB2	1.96	0.65
2:o:1075:SER:HB3	2:o:1078:MET:HG2	1.78	0.65
1:A:442:LEU:HD13	1:A:448:LEU:HD21	1.78	0.65
2:b:1060:ILE:HG13	2:b:1064:ASN:ND2	2.11	0.65
1:E:584:ASN:O	1:E:587:MET:HB2	1.96	0.65
2:f:1060:ILE:HG13	2:f:1064:ASN:ND2	2.11	0.65
1:G:178:ARG:NH1	1:H:200:ARG:HB3	2.11	0.65
2:k:1060:ILE:HG13	2:k:1064:ASN:ND2	2.12	0.65
1:L:398:GLU:C	1:L:400:GLN:H	2.03	0.65
1:L:442:LEU:HD13	1:L:448:LEU:HD21	1.78	0.65
2:m:1060:ILE:HG13	2:m:1064:ASN:ND2	2.12	0.65
1:A:423:ALA:C	1:A:424:GLN:HG3	2.22	0.65
2:a:1049:LEU:HB2	2:a:1084:VAL:HG12	1.77	0.65
1:C:596:PHE:HD2	1:C:638:ILE:HD13	1.62	0.65
1:D:398:GLU:C	1:D:400:GLN:H	2.03	0.65
1:H:635:ILE:O	1:H:638:ILE:HG12	1.97	0.65
1:I:259:TYR:CZ	1:I:261:ILE:HD11	2.31	0.65
1:J:584:ASN:O	1:J:587:MET:HB2	1.96	0.65
1:M:635:ILE:O	1:M:638:ILE:HG12	1.97	0.65
1:A:266:MET:HA	1:A:364:ILE:HG22	1.77	0.65
1:A:596:PHE:HD2	1:A:638:ILE:HD13	1.62	0.65
1:F:541:GLN:HB2	1:F:545:LYS:O	1.97	0.65
1:F:596:PHE:HD2	1:F:638:ILE:HD13	1.62	0.65
1:G:266:MET:HA	1:G:364:ILE:HG22	1.77	0.65
1:K:423:ALA:C	1:K:424:GLN:HG3	2.22	0.65
2:m:1075:SER:HB3	2:m:1078:MET:HG2	1.78	0.65
2:d:1060:ILE:HG13	2:d:1064:ASN:ND2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:1075:SER:HB3	2:g:1078:MET:HG2	1.78	0.65
2:g:1154:LEU:HD13	2:g:1158:TYR:HE2	1.62	0.65
2:h:1060:ILE:HG13	2:h:1064:ASN:ND2	2.12	0.65
1:J:541:GLN:HB2	1:J:545:LYS:O	1.97	0.65
2:k:1154:LEU:HD13	2:k:1158:TYR:HE2	1.62	0.65
1:L:319:SER:HA	1:M:414:LYS:HG3	1.78	0.65
1:L:584:ASN:O	1:L:587:MET:HB2	1.96	0.65
1:C:398:GLU:C	1:C:400:GLN:H	2.03	0.65
1:D:635:ILE:O	1:D:638:ILE:HG12	1.97	0.65
1:E:541:GLN:HB2	1:E:545:LYS:O	1.97	0.65
1:G:442:LEU:HD13	1:G:448:LEU:HD21	1.78	0.65
2:g:1049:LEU:HB2	2:g:1084:VAL:HG12	1.77	0.65
1:H:596:PHE:HD2	1:H:638:ILE:HD13	1.62	0.65
1:I:541:GLN:HB2	1:I:545:LYS:O	1.97	0.65
1:I:584:ASN:O	1:I:587:MET:HB2	1.96	0.65
1:I:635:ILE:O	1:I:638:ILE:HG12	1.97	0.65
1:O:635:ILE:O	1:O:638:ILE:HG12	1.97	0.65
1:A:584:ASN:O	1:A:587:MET:HB2	1.96	0.65
1:F:312:SER:HA	1:F:315:ASP:OD2	1.96	0.65
1:I:266:MET:HA	1:I:364:ILE:HG22	1.77	0.65
2:j:1154:LEU:HD13	2:j:1158:TYR:HE2	1.62	0.65
2:k:1075:SER:HB3	2:k:1078:MET:HG2	1.78	0.65
1:M:596:PHE:HD2	1:M:638:ILE:HD13	1.62	0.65
1:O:541:GLN:HB2	1:O:545:LYS:O	1.97	0.65
1:A:541:GLN:HB2	1:A:545:LYS:O	1.97	0.65
2:a:1060:ILE:HG13	2:a:1064:ASN:ND2	2.11	0.65
1:B:266:MET:HA	1:B:364:ILE:HG22	1.77	0.65
1:D:541:GLN:HB2	1:D:545:LYS:O	1.97	0.65
1:D:584:ASN:O	1:D:587:MET:HB2	1.96	0.65
1:E:442:LEU:HD13	1:E:448:LEU:HD21	1.78	0.65
1:F:635:ILE:O	1:F:638:ILE:HG12	1.97	0.65
2:f:1049:LEU:HB2	2:f:1084:VAL:HG12	1.77	0.65
1:G:635:ILE:O	1:G:638:ILE:HG12	1.97	0.65
1:H:266:MET:HA	1:H:364:ILE:HG22	1.77	0.65
1:I:312:SER:HA	1:I:315:ASP:OD2	1.96	0.65
1:K:596:PHE:HD2	1:K:638:ILE:HD13	1.62	0.65
1:M:423:ALA:C	1:M:424:GLN:HG3	2.22	0.65
1:B:423:ALA:C	1:B:424:GLN:HG3	2.22	0.64
1:C:584:ASN:O	1:C:587:MET:HB2	1.96	0.64
1:E:596:PHE:HD2	1:E:638:ILE:HD13	1.62	0.64
2:e:1060:ILE:HG13	2:e:1064:ASN:ND2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:423:ALA:C	1:H:424:GLN:HG3	2.22	0.64
1:H:541:GLN:HB2	1:H:545:LYS:O	1.97	0.64
1:H:657:ASN:HB2	1:H:662:MET:HB3	1.80	0.64
1:I:423:ALA:C	1:I:424:GLN:HG3	2.22	0.64
2:j:1185:GLN:HG3	2:j:1189:ILE:HD11	1.77	0.64
1:L:313:PHE:HA	1:L:319:SER:HB2	1.79	0.64
1:M:442:LEU:HD13	1:M:448:LEU:HD21	1.78	0.64
1:B:312:SER:HA	1:B:315:ASP:OD2	1.96	0.64
1:B:596:PHE:HD2	1:B:638:ILE:HD13	1.62	0.64
2:b:1154:LEU:HD13	2:b:1158:TYR:HE2	1.62	0.64
1:C:183:ILE:HG12	1:C:203:LEU:HD21	1.77	0.64
1:C:314:PHE:CE2	1:O:672:GLY:HA2	2.33	0.64
1:C:635:ILE:O	1:C:638:ILE:HG12	1.97	0.64
1:D:200:ARG:HB3	1:O:178:ARG:NH1	2.12	0.64
2:e:1154:LEU:HD13	2:e:1158:TYR:HE2	1.62	0.64
1:G:596:PHE:HD2	1:G:638:ILE:HD13	1.62	0.64
1:I:442:LEU:HD13	1:I:448:LEU:HD21	1.78	0.64
1:J:313:PHE:HA	1:J:319:SER:HB2	1.79	0.64
1:K:635:ILE:O	1:K:638:ILE:HG12	1.97	0.64
2:l:1060:ILE:HG13	2:l:1064:ASN:ND2	2.12	0.64
1:M:313:PHE:HA	1:M:319:SER:HB2	1.79	0.64
1:M:541:GLN:HB2	1:M:545:LYS:O	1.97	0.64
1:D:423:ALA:C	1:D:424:GLN:HG3	2.22	0.64
1:E:312:SER:HA	1:E:315:ASP:OD2	1.96	0.64
1:I:398:GLU:C	1:I:400:GLN:H	2.03	0.64
1:J:657:ASN:HB2	1:J:662:MET:HB3	1.80	0.64
1:L:541:GLN:HB2	1:L:545:LYS:O	1.97	0.64
1:L:635:ILE:O	1:L:638:ILE:HG12	1.97	0.64
2:o:1154:LEU:HD13	2:o:1158:TYR:HE2	1.62	0.64
1:F:423:ALA:C	1:F:424:GLN:HG3	2.22	0.64
1:G:541:GLN:HB2	1:G:545:LYS:O	1.97	0.64
1:J:596:PHE:HD2	1:J:638:ILE:HD13	1.62	0.64
1:J:635:ILE:O	1:J:638:ILE:HG12	1.97	0.64
1:K:442:LEU:HD13	1:K:448:LEU:HD21	1.78	0.64
1:L:305:GLY:HA3	1:M:670:GLN:HE21	1.57	0.64
1:O:596:PHE:HD2	1:O:638:ILE:HD13	1.62	0.64
1:B:183:ILE:HG12	1:B:203:LEU:HD21	1.77	0.64
1:B:657:ASN:HB2	1:B:662:MET:HB3	1.80	0.64
1:C:423:ALA:C	1:C:424:GLN:HG3	2.22	0.64
1:C:541:GLN:HB2	1:C:545:LYS:O	1.97	0.64
1:G:423:ALA:C	1:G:424:GLN:HG3	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:PHE:HA	1:H:319:SER:HB2	1.79	0.64
1:H:442:LEU:HD13	1:H:448:LEU:HD21	1.78	0.64
2:i:1075:SER:HB3	2:i:1078:MET:HG2	1.78	0.64
2:j:1060:ILE:HG13	2:j:1064:ASN:ND2	2.12	0.64
1:K:404:ILE:HD12	1:K:404:ILE:N	2.13	0.64
1:L:423:ALA:C	1:L:424:GLN:HG3	2.22	0.64
1:A:404:ILE:N	1:A:404:ILE:HD12	2.13	0.64
1:B:442:LEU:HD13	1:B:448:LEU:HD21	1.78	0.64
2:b:1049:LEU:HB2	2:b:1084:VAL:HG12	1.77	0.64
1:C:657:ASN:HB2	1:C:662:MET:HB3	1.80	0.64
1:D:200:ARG:HB3	1:O:178:ARG:HH12	1.61	0.64
2:f:1154:LEU:HD13	2:f:1158:TYR:HE2	1.62	0.64
1:G:313:PHE:HA	1:G:319:SER:HB2	1.79	0.64
1:I:404:ILE:N	1:I:404:ILE:HD12	2.13	0.64
1:I:657:ASN:HB2	1:I:662:MET:HB3	1.80	0.64
2:i:1060:ILE:HG13	2:i:1064:ASN:ND2	2.12	0.64
1:K:541:GLN:HB2	1:K:545:LYS:O	1.97	0.64
1:K:657:ASN:HB2	1:K:662:MET:HB3	1.80	0.64
1:L:596:PHE:HD2	1:L:638:ILE:HD13	1.62	0.64
1:O:404:ILE:N	1:O:404:ILE:HD12	2.13	0.64
1:A:635:ILE:O	1:A:638:ILE:HG12	1.97	0.64
1:C:521:MET:HE2	1:C:522:THR:H	1.63	0.64
1:D:442:LEU:HD13	1:D:448:LEU:HD21	1.78	0.64
1:E:319:SER:H	1:F:414:LYS:HG3	1.63	0.64
1:F:442:LEU:HD13	1:F:448:LEU:HD21	1.78	0.64
1:G:404:ILE:N	1:G:404:ILE:HD12	2.13	0.64
2:j:1075:SER:HB3	2:j:1078:MET:HG2	1.78	0.64
1:L:521:MET:HE2	1:L:522:THR:H	1.63	0.64
1:M:657:ASN:HB2	1:M:662:MET:HB3	1.79	0.64
1:O:423:ALA:C	1:O:424:GLN:HG3	2.22	0.64
1:O:442:LEU:HD13	1:O:448:LEU:HD21	1.78	0.64
1:B:313:PHE:HA	1:B:319:SER:HB2	1.79	0.64
1:B:404:ILE:HD12	1:B:404:ILE:N	2.13	0.64
1:E:521:MET:HE2	1:E:522:THR:H	1.63	0.64
1:I:596:PHE:HD2	1:I:638:ILE:HD13	1.62	0.64
1:J:404:ILE:N	1:J:404:ILE:HD12	2.13	0.64
1:J:423:ALA:C	1:J:424:GLN:HG3	2.22	0.64
1:M:521:MET:HE2	1:M:522:THR:H	1.63	0.64
1:O:313:PHE:HA	1:O:319:SER:HB2	1.79	0.64
2:a:1154:LEU:HD13	2:a:1158:TYR:HE2	1.62	0.64
1:E:313:PHE:HA	1:E:319:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:635:ILE:O	1:E:638:ILE:HG12	1.97	0.64
1:F:521:MET:HE2	1:F:522:THR:H	1.63	0.64
2:m:1154:LEU:HD13	2:m:1158:TYR:HE2	1.62	0.64
2:c:1154:LEU:HD13	2:c:1158:TYR:HE2	1.62	0.64
1:D:404:ILE:N	1:D:404:ILE:HD12	2.13	0.64
1:D:596:PHE:HD2	1:D:638:ILE:HD13	1.62	0.64
1:E:423:ALA:C	1:E:424:GLN:HG3	2.22	0.64
1:H:319:SER:OG	1:I:414:LYS:HE3	1.98	0.64
1:K:584:ASN:H	1:K:587:MET:CE	2.11	0.64
1:L:584:ASN:H	1:L:587:MET:CE	2.11	0.64
1:A:178:ARG:NH1	1:B:200:ARG:HB3	2.12	0.63
1:B:541:GLN:HB2	1:B:545:LYS:O	1.97	0.63
2:b:1075:SER:HB3	2:b:1078:MET:HG2	1.78	0.63
1:F:404:ILE:HD12	1:F:404:ILE:N	2.13	0.63
2:f:1147:THR:O	2:f:1177:GLY:HA2	1.98	0.63
2:g:1147:THR:O	2:g:1177:GLY:HA2	1.99	0.63
2:h:1147:THR:O	2:h:1177:GLY:HA2	1.99	0.63
2:j:1147:THR:O	2:j:1177:GLY:HA2	1.98	0.63
1:K:313:PHE:HA	1:K:319:SER:HB2	1.79	0.63
1:K:521:MET:HE2	1:K:522:THR:H	1.63	0.63
1:O:584:ASN:H	1:O:587:MET:CE	2.11	0.63
2:o:1147:THR:O	2:o:1177:GLY:HA2	1.98	0.63
1:A:584:ASN:H	1:A:587:MET:CE	2.11	0.63
1:B:360:LEU:O	1:B:432:ILE:HD12	1.99	0.63
2:c:1147:THR:O	2:c:1177:GLY:HA2	1.98	0.63
1:E:365:ARG:NH1	1:E:414:LYS:HD3	2.14	0.63
1:F:584:ASN:H	1:F:587:MET:CE	2.11	0.63
1:G:584:ASN:H	1:G:587:MET:CE	2.11	0.63
1:I:584:ASN:H	1:I:587:MET:CE	2.11	0.63
2:l:1154:LEU:HD13	2:l:1158:TYR:HE2	1.62	0.63
1:A:723:LYS:H	1:A:723:LYS:HD3	1.64	0.63
2:d:1154:LEU:HD13	2:d:1158:TYR:HE2	1.62	0.63
2:h:1154:LEU:HD13	2:h:1158:TYR:HE2	1.62	0.63
1:I:313:PHE:HA	1:I:319:SER:HB2	1.79	0.63
1:O:657:ASN:HB2	1:O:662:MET:HB3	1.80	0.63
1:B:484:ILE:H	1:B:484:ILE:HD12	1.64	0.63
1:C:584:ASN:H	1:C:587:MET:CE	2.11	0.63
1:D:313:PHE:HA	1:D:319:SER:HB2	1.79	0.63
1:E:404:ILE:HD12	1:E:404:ILE:N	2.13	0.63
1:E:723:LYS:HD3	1:E:723:LYS:H	1.64	0.63
1:G:468:ARG:CG	1:M:480:VAL:HG21	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:484:ILE:H	1:G:484:ILE:HD12	1.64	0.63
1:H:521:MET:HE2	1:H:522:THR:H	1.63	0.63
1:J:222:SER:HB2	1:J:518:LYS:HA	1.81	0.63
1:K:723:LYS:H	1:K:723:LYS:HD3	1.64	0.63
1:M:365:ARG:NH1	1:M:414:LYS:HD3	2.14	0.63
1:A:584:ASN:H	1:A:587:MET:HE3	1.64	0.63
1:C:313:PHE:HA	1:C:319:SER:HB2	1.79	0.63
1:C:723:LYS:H	1:C:723:LYS:HD3	1.64	0.63
1:D:521:MET:HE2	1:D:522:THR:H	1.63	0.63
1:D:657:ASN:HB2	1:D:662:MET:HB3	1.80	0.63
1:F:584:ASN:H	1:F:587:MET:HE3	1.64	0.63
1:H:404:ILE:HD12	1:H:404:ILE:N	2.13	0.63
1:J:584:ASN:H	1:J:587:MET:CE	2.11	0.63
1:L:360:LEU:O	1:L:432:ILE:HD12	1.99	0.63
1:L:365:ARG:NH1	1:L:414:LYS:HD3	2.14	0.63
2:l:1147:THR:O	2:l:1177:GLY:HA2	1.98	0.63
1:O:584:ASN:H	1:O:587:MET:HE3	1.64	0.63
1:B:635:ILE:O	1:B:638:ILE:HG12	1.97	0.63
1:D:584:ASN:H	1:D:587:MET:CE	2.11	0.63
1:E:584:ASN:H	1:E:587:MET:HE3	1.64	0.63
1:E:657:ASN:HB2	1:E:662:MET:HB3	1.80	0.63
2:h:1075:SER:HB3	2:h:1078:MET:HG2	1.78	0.63
1:I:222:SER:HB2	1:I:518:LYS:HA	1.81	0.63
1:L:222:SER:HB2	1:L:518:LYS:HA	1.81	0.63
1:L:484:ILE:HD12	1:L:484:ILE:H	1.64	0.63
1:A:313:PHE:HA	1:A:319:SER:HB2	1.79	0.63
1:A:360:LEU:O	1:A:432:ILE:HD12	1.99	0.63
1:B:222:SER:HB2	1:B:518:LYS:HA	1.81	0.63
1:B:521:MET:HE2	1:B:522:THR:H	1.63	0.63
1:B:584:ASN:H	1:B:587:MET:CE	2.11	0.63
2:b:1147:THR:O	2:b:1177:GLY:HA2	1.98	0.63
1:C:226:TRP:CZ2	1:C:234:SER:HB3	2.34	0.63
1:G:407:PRO:O	1:G:408:ASN:C	2.42	0.63
1:K:360:LEU:O	1:K:432:ILE:HD12	1.99	0.63
1:K:365:ARG:NH1	1:K:414:LYS:HD3	2.14	0.63
1:K:484:ILE:H	1:K:484:ILE:HD12	1.64	0.63
1:K:584:ASN:H	1:K:587:MET:HE3	1.64	0.63
1:M:360:LEU:O	1:M:432:ILE:HD12	1.99	0.63
1:M:584:ASN:H	1:M:587:MET:CE	2.11	0.63
2:m:1147:THR:O	2:m:1177:GLY:HA2	1.98	0.63
1:O:360:LEU:O	1:O:432:ILE:HD12	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:1060:ILE:HG13	2:o:1064:ASN:ND2	2.12	0.63
1:A:521:MET:HE2	1:A:522:THR:H	1.63	0.63
1:C:222:SER:HB2	1:C:518:LYS:HA	1.81	0.63
1:C:305:GLY:HA2	1:O:670:GLN:HE21	1.62	0.63
1:C:341:ALA:HB3	2:c:1154:LEU:N	2.13	0.63
1:D:365:ARG:NH1	1:D:414:LYS:HD3	2.14	0.63
1:F:226:TRP:CZ2	1:F:234:SER:HB3	2.34	0.63
1:G:365:ARG:NH1	1:G:414:LYS:HD3	2.14	0.63
2:i:1154:LEU:HD13	2:i:1158:TYR:HE2	1.62	0.63
1:J:484:ILE:H	1:J:484:ILE:HD12	1.64	0.63
1:A:407:PRO:O	1:A:408:ASN:C	2.42	0.63
2:a:1147:THR:O	2:a:1177:GLY:HA2	1.98	0.63
1:B:226:TRP:CZ2	1:B:234:SER:HB3	2.34	0.63
1:D:360:LEU:O	1:D:432:ILE:HD12	1.99	0.63
1:D:365:ARG:HB3	1:D:412:PRO:CG	2.29	0.63
1:D:584:ASN:H	1:D:587:MET:HE3	1.64	0.63
2:d:1147:THR:O	2:d:1177:GLY:HA2	1.98	0.63
1:F:657:ASN:HB2	1:F:662:MET:HB3	1.80	0.63
1:G:414:LYS:CG	1:M:319:SER:CA	2.76	0.63
1:G:466:ASN:C	1:M:226:TRP:HB2	2.24	0.63
1:J:365:ARG:NH1	1:J:414:LYS:HD3	2.14	0.63
1:M:584:ASN:H	1:M:587:MET:HE3	1.64	0.63
1:O:521:MET:HE2	1:O:522:THR:H	1.63	0.63
1:O:723:LYS:HD3	1:O:723:LYS:H	1.64	0.63
1:E:224:GLU:OE2	1:F:201:THR:N	2.32	0.62
1:F:365:ARG:HB3	1:F:412:PRO:CG	2.29	0.62
1:G:584:ASN:H	1:G:587:MET:HE3	1.64	0.62
1:H:584:ASN:H	1:H:587:MET:CE	2.11	0.62
1:I:360:LEU:O	1:I:432:ILE:HD12	1.99	0.62
1:I:652:LEU:HD11	2:i:1111:ARG:HH21	1.64	0.62
1:I:723:LYS:H	1:I:723:LYS:HD3	1.64	0.62
1:K:226:TRP:CZ2	1:K:234:SER:HB3	2.34	0.62
1:L:226:TRP:CZ2	1:L:234:SER:HB3	2.34	0.62
1:L:584:ASN:H	1:L:587:MET:HE3	1.64	0.62
1:M:404:ILE:HD12	1:M:404:ILE:N	2.13	0.62
1:M:407:PRO:O	1:M:408:ASN:C	2.42	0.62
1:M:484:ILE:H	1:M:484:ILE:HD12	1.64	0.62
1:O:226:TRP:CZ2	1:O:234:SER:HB3	2.34	0.62
1:O:365:ARG:NH1	1:O:414:LYS:HD3	2.14	0.62
1:O:652:LEU:HD11	2:o:1111:ARG:HH21	1.64	0.62
1:E:226:TRP:CZ2	1:E:234:SER:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:222:SER:HB2	1:F:518:LYS:HA	1.81	0.62
1:F:313:PHE:HA	1:F:319:SER:HB2	1.79	0.62
1:F:484:ILE:H	1:F:484:ILE:HD12	1.64	0.62
1:G:657:ASN:HB2	1:G:662:MET:HB3	1.80	0.62
1:I:407:PRO:O	1:I:408:ASN:C	2.42	0.62
2:i:1147:THR:O	2:i:1177:GLY:HA2	1.98	0.62
1:J:407:PRO:O	1:J:408:ASN:C	2.42	0.62
1:A:365:ARG:HB3	1:A:412:PRO:CG	2.29	0.62
1:B:723:LYS:HD3	1:B:723:LYS:H	1.64	0.62
1:D:226:TRP:CZ2	1:D:234:SER:HB3	2.34	0.62
1:D:239:VAL:O	1:O:513:PRO:HG2	1.99	0.62
1:E:365:ARG:HB3	1:E:412:PRO:CG	2.29	0.62
1:E:407:PRO:O	1:E:408:ASN:C	2.42	0.62
1:E:584:ASN:H	1:E:587:MET:CE	2.11	0.62
1:F:179:ASP:HB3	1:F:223:PRO:O	2.00	0.62
1:F:206:TRP:CZ3	1:F:211:HIS:HB3	2.34	0.62
1:G:341:ALA:HB3	2:g:1154:LEU:N	2.13	0.62
1:G:365:ARG:HB3	1:G:412:PRO:CG	2.29	0.62
1:G:521:MET:HE2	1:G:522:THR:H	1.63	0.62
1:H:365:ARG:NH1	1:H:414:LYS:HD3	2.14	0.62
1:I:226:TRP:CZ2	1:I:234:SER:HB3	2.34	0.62
1:I:365:ARG:NH1	1:I:414:LYS:HD3	2.14	0.62
1:J:226:TRP:CZ2	1:J:234:SER:HB3	2.34	0.62
1:L:179:ASP:HB3	1:L:223:PRO:O	2.00	0.62
1:L:365:ARG:HB3	1:L:412:PRO:CG	2.29	0.62
1:A:341:ALA:HB3	2:a:1154:LEU:N	2.13	0.62
1:B:179:ASP:HB3	1:B:223:PRO:O	2.00	0.62
1:C:652:LEU:HD11	2:c:1111:ARG:HH21	1.64	0.62
1:D:670:GLN:HG3	1:O:305:GLY:C	2.24	0.62
1:F:360:LEU:O	1:F:432:ILE:HD12	1.99	0.62
1:I:584:ASN:H	1:I:587:MET:HE3	1.64	0.62
1:I:605:VAL:CG1	1:I:704:GLU:HB3	2.30	0.62
1:J:206:TRP:CZ3	1:J:211:HIS:HB3	2.34	0.62
1:K:605:VAL:CG1	1:K:704:GLU:HB3	2.30	0.62
1:L:657:ASN:HB2	1:L:662:MET:HB3	1.80	0.62
1:M:605:VAL:CG1	1:M:704:GLU:HB3	2.30	0.62
1:A:365:ARG:NH1	1:A:414:LYS:HD3	2.14	0.62
1:A:484:ILE:HD12	1:A:484:ILE:H	1.64	0.62
1:C:360:LEU:O	1:C:432:ILE:HD12	1.99	0.62
1:C:404:ILE:HD12	1:C:404:ILE:N	2.13	0.62
1:C:407:PRO:O	1:C:408:ASN:C	2.42	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:206:TRP:CZ3	1:E:211:HIS:HB3	2.34	0.62
1:I:179:ASP:HB3	1:I:223:PRO:O	2.00	0.62
1:I:259:TYR:H	1:I:259:TYR:HD2	1.48	0.62
1:K:407:PRO:O	1:K:408:ASN:C	2.42	0.62
1:K:652:LEU:HD11	2:k:1111:ARG:HH21	1.64	0.62
1:L:341:ALA:HB3	2:l:1154:LEU:N	2.13	0.62
1:M:179:ASP:HB3	1:M:223:PRO:O	2.00	0.62
1:B:319:SER:HA	1:C:414:LYS:HB3	1.80	0.62
1:C:179:ASP:HB3	1:C:223:PRO:O	2.00	0.62
1:C:336:HIS:CB	1:C:708:ILE:HG22	2.30	0.62
1:D:407:PRO:O	1:D:408:ASN:C	2.42	0.62
1:D:517:THR:HG23	1:E:199:LYS:O	1.99	0.62
1:H:206:TRP:CZ3	1:H:211:HIS:HB3	2.34	0.62
1:H:407:PRO:O	1:H:408:ASN:C	2.42	0.62
1:I:316:ILE:HD12	1:J:496:LYS:CB	2.28	0.62
1:I:365:ARG:HB3	1:I:412:PRO:CG	2.29	0.62
1:I:521:MET:HE2	1:I:522:THR:H	1.63	0.62
1:J:365:ARG:HB3	1:J:412:PRO:CG	2.29	0.62
1:L:404:ILE:N	1:L:404:ILE:HD12	2.13	0.62
1:M:222:SER:HB2	1:M:518:LYS:HA	1.81	0.62
1:M:365:ARG:HB3	1:M:412:PRO:CG	2.29	0.62
1:O:365:ARG:HB3	1:O:412:PRO:CG	2.29	0.62
1:B:584:ASN:H	1:B:587:MET:HE3	1.64	0.62
1:C:628:LEU:C	1:C:629:LEU:HD12	2.25	0.62
1:D:605:VAL:CG1	1:D:704:GLU:HB3	2.30	0.62
1:E:336:HIS:CB	1:E:708:ILE:HG22	2.30	0.62
1:E:652:LEU:HD11	2:e:1111:ARG:HH21	1.64	0.62
2:e:1147:THR:O	2:e:1177:GLY:HA2	1.98	0.62
1:G:226:TRP:CZ2	1:G:234:SER:HB3	2.34	0.62
1:G:652:LEU:HD11	2:g:1111:ARG:HH21	1.64	0.62
1:H:365:ARG:HB3	1:H:412:PRO:CG	2.29	0.62
1:H:605:VAL:CG1	1:H:704:GLU:HB3	2.30	0.62
1:I:336:HIS:CB	1:I:708:ILE:HG22	2.30	0.62
1:I:484:ILE:HD12	1:I:484:ILE:H	1.64	0.62
1:J:336:HIS:CB	1:J:708:ILE:HG22	2.30	0.62
1:J:521:MET:HE2	1:J:522:THR:H	1.63	0.62
1:J:584:ASN:H	1:J:587:MET:HE3	1.64	0.62
1:J:605:VAL:CG1	1:J:704:GLU:HB3	2.30	0.62
1:J:723:LYS:HD3	1:J:723:LYS:H	1.64	0.62
1:K:259:TYR:H	1:K:259:TYR:HD2	1.48	0.62
1:M:226:TRP:CZ2	1:M:234:SER:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:SER:HB2	1:A:518:LYS:HA	1.81	0.62
1:A:259:TYR:H	1:A:259:TYR:HD2	1.48	0.62
1:A:336:HIS:CB	1:A:708:ILE:HG22	2.30	0.62
1:B:341:ALA:HB3	2:b:1154:LEU:N	2.13	0.62
1:B:628:LEU:C	1:B:629:LEU:HD12	2.25	0.62
1:C:587:MET:C	1:C:588:ASN:HD22	2.08	0.62
1:D:723:LYS:HD3	1:D:723:LYS:H	1.64	0.62
1:G:206:TRP:CZ3	1:G:211:HIS:HB3	2.34	0.62
1:G:336:HIS:CB	1:G:708:ILE:HG22	2.30	0.62
1:G:723:LYS:HD3	1:G:723:LYS:H	1.64	0.62
1:H:652:LEU:HD11	2:h:1111:ARG:HH21	1.64	0.62
1:J:178:ARG:HH12	1:K:200:ARG:HB3	1.65	0.62
1:J:360:LEU:O	1:J:432:ILE:HD12	1.99	0.62
1:K:365:ARG:HB3	1:K:412:PRO:CG	2.29	0.62
1:K:628:LEU:C	1:K:629:LEU:HD12	2.25	0.62
1:L:652:LEU:HD11	2:l:1111:ARG:HH21	1.64	0.62
1:M:723:LYS:HD3	1:M:723:LYS:H	1.64	0.62
1:A:226:TRP:CZ2	1:A:234:SER:HB3	2.34	0.62
1:B:336:HIS:CB	1:B:708:ILE:HG22	2.30	0.62
1:D:206:TRP:CZ3	1:D:211:HIS:HB3	2.34	0.62
1:D:336:HIS:CB	1:D:708:ILE:HG22	2.30	0.62
1:E:259:TYR:H	1:E:259:TYR:HD2	1.48	0.62
1:G:360:LEU:O	1:G:432:ILE:HD12	1.99	0.62
1:H:179:ASP:HB3	1:H:223:PRO:O	2.00	0.62
1:H:360:LEU:O	1:H:432:ILE:HD12	1.99	0.62
1:K:179:ASP:HB3	1:K:223:PRO:O	2.00	0.62
1:K:341:ALA:HB3	2:k:1154:LEU:N	2.13	0.62
1:L:723:LYS:H	1:L:723:LYS:HD3	1.64	0.62
1:M:206:TRP:CZ3	1:M:211:HIS:HB3	2.34	0.62
1:M:336:HIS:CB	1:M:708:ILE:HG22	2.30	0.62
1:O:206:TRP:CZ3	1:O:211:HIS:HB3	2.34	0.62
1:A:657:ASN:HB2	1:A:662:MET:HB3	1.80	0.62
1:B:206:TRP:CZ3	1:B:211:HIS:HB3	2.34	0.62
1:B:365:ARG:HB3	1:B:412:PRO:CG	2.29	0.62
1:B:605:VAL:CG1	1:B:704:GLU:HB3	2.30	0.62
1:D:628:LEU:C	1:D:629:LEU:HD12	2.25	0.62
1:E:179:ASP:HB3	1:E:223:PRO:O	2.00	0.62
1:E:628:LEU:C	1:E:629:LEU:HD12	2.25	0.62
1:H:336:HIS:CB	1:H:708:ILE:HG22	2.30	0.62
1:J:179:ASP:HB3	1:J:223:PRO:O	2.00	0.62
1:K:178:ARG:NH1	1:L:200:ARG:HB3	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:222:SER:HB2	1:O:518:LYS:HA	1.81	0.62
1:O:484:ILE:H	1:O:484:ILE:HD12	1.64	0.62
1:O:628:LEU:C	1:O:629:LEU:HD12	2.25	0.62
1:A:652:LEU:HD11	2:a:1111:ARG:HH21	1.64	0.61
1:C:178:ARG:NH2	1:O:200:ARG:CB	2.63	0.61
1:E:222:SER:HB2	1:E:518:LYS:HA	1.81	0.61
1:F:336:HIS:CB	1:F:708:ILE:HG22	2.30	0.61
1:F:628:LEU:C	1:F:629:LEU:HD12	2.25	0.61
1:K:206:TRP:CZ3	1:K:211:HIS:HB3	2.34	0.61
1:K:336:HIS:CB	1:K:708:ILE:HG22	2.30	0.61
1:L:336:HIS:CB	1:L:708:ILE:HG22	2.30	0.61
1:B:365:ARG:NH1	1:B:414:LYS:HD3	2.14	0.61
1:C:206:TRP:CZ3	1:C:211:HIS:HB3	2.34	0.61
1:C:259:TYR:H	1:C:259:TYR:HD2	1.48	0.61
1:C:365:ARG:NH1	1:C:414:LYS:HD3	2.14	0.61
1:D:484:ILE:HD12	1:D:484:ILE:H	1.64	0.61
1:E:605:VAL:CG1	1:E:704:GLU:HB3	2.30	0.61
1:F:365:ARG:NH1	1:F:414:LYS:HD3	2.14	0.61
1:G:515:GLU:OE2	1:G:518:LYS:HD2	2.01	0.61
1:G:605:VAL:CG1	1:G:704:GLU:HB3	2.30	0.61
1:H:226:TRP:CZ2	1:H:234:SER:HB3	2.34	0.61
1:H:243:ILE:CG1	1:H:244:ASP:N	2.63	0.61
1:H:484:ILE:H	1:H:484:ILE:HD12	1.64	0.61
1:I:498:LEU:HB3	1:I:604:ALA:HB2	1.82	0.61
1:J:628:LEU:C	1:J:629:LEU:HD12	2.25	0.61
2:k:1147:THR:O	2:k:1177:GLY:HA2	1.99	0.61
1:M:374:ILE:HD12	1:M:405:LEU:HD23	1.83	0.61
1:B:407:PRO:O	1:B:408:ASN:C	2.42	0.61
1:B:498:LEU:HB3	1:B:604:ALA:HB2	1.82	0.61
1:B:515:GLU:OE2	1:B:518:LYS:HD2	2.01	0.61
1:D:302:GLU:HG3	1:D:323:GLY:HA2	1.83	0.61
1:D:652:LEU:HD11	2:d:1111:ARG:HH21	1.64	0.61
1:E:360:LEU:O	1:E:432:ILE:HD12	1.99	0.61
1:F:337:SER:OG	1:F:664:ASN:HB2	2.01	0.61
1:F:407:PRO:O	1:F:408:ASN:C	2.42	0.61
1:H:374:ILE:HD12	1:H:405:LEU:HD23	1.83	0.61
1:H:723:LYS:H	1:H:723:LYS:HD3	1.64	0.61
2:i:1045:LEU:HB2	2:i:1080:LEU:CD2	2.31	0.61
1:J:587:MET:C	1:J:588:ASN:HD22	2.08	0.61
1:K:587:MET:C	1:K:588:ASN:HD22	2.08	0.61
1:L:206:TRP:CZ3	1:L:211:HIS:HB3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:407:PRO:O	1:L:408:ASN:C	2.42	0.61
1:L:498:LEU:HB3	1:L:604:ALA:HB2	1.82	0.61
1:O:515:GLU:OE2	1:O:518:LYS:HD2	2.01	0.61
1:A:587:MET:C	1:A:588:ASN:HD22	2.08	0.61
1:B:337:SER:OG	1:B:664:ASN:HB2	2.01	0.61
1:C:515:GLU:OE2	1:C:518:LYS:HD2	2.01	0.61
1:C:584:ASN:H	1:C:587:MET:HE3	1.64	0.61
1:D:337:SER:OG	1:D:664:ASN:HB2	2.01	0.61
1:G:259:TYR:H	1:G:259:TYR:HD2	1.48	0.61
1:G:587:MET:C	1:G:588:ASN:HD22	2.08	0.61
1:J:374:ILE:HD12	1:J:405:LEU:HD23	1.83	0.61
1:J:652:LEU:HD11	2:j:1111:ARG:HH21	1.64	0.61
1:K:222:SER:HB2	1:K:518:LYS:HA	1.81	0.61
1:L:259:TYR:HD2	1:L:259:TYR:H	1.48	0.61
1:L:628:LEU:C	1:L:629:LEU:HD12	2.25	0.61
1:O:407:PRO:O	1:O:408:ASN:C	2.42	0.61
1:A:179:ASP:HB3	1:A:223:PRO:O	2.00	0.61
1:C:365:ARG:HB3	1:C:412:PRO:CG	2.29	0.61
1:D:179:ASP:HB3	1:D:223:PRO:O	2.00	0.61
1:E:374:ILE:HD12	1:E:405:LEU:HD23	1.83	0.61
1:F:243:ILE:CG1	1:F:244:ASP:N	2.64	0.61
1:F:587:MET:C	1:F:588:ASN:HD22	2.08	0.61
1:F:723:LYS:H	1:F:723:LYS:HD3	1.64	0.61
1:H:319:SER:HA	1:I:414:LYS:HB3	1.80	0.61
1:I:587:MET:C	1:I:588:ASN:HD22	2.08	0.61
1:J:515:GLU:OE2	1:J:518:LYS:HD2	2.01	0.61
1:K:302:GLU:HG3	1:K:323:GLY:HA2	1.83	0.61
1:K:374:ILE:HD12	1:K:405:LEU:HD23	1.83	0.61
1:L:515:GLU:OE2	1:L:518:LYS:HD2	2.01	0.61
1:M:652:LEU:HD11	2:m:1111:ARG:HH21	1.64	0.61
1:O:259:TYR:H	1:O:259:TYR:HD2	1.48	0.61
1:A:305:GLY:HA3	1:B:670:GLN:NE2	2.13	0.61
1:B:587:MET:C	1:B:588:ASN:HD22	2.08	0.61
1:C:374:ILE:HD12	1:C:405:LEU:HD23	1.83	0.61
1:D:222:SER:HB2	1:D:518:LYS:HA	1.81	0.61
1:F:302:GLU:HG3	1:F:323:GLY:HA2	1.83	0.61
1:H:587:MET:C	1:H:588:ASN:HD22	2.08	0.61
2:h:1045:LEU:HB2	2:h:1080:LEU:CD2	2.31	0.61
1:I:628:LEU:C	1:I:629:LEU:HD12	2.25	0.61
1:K:316:ILE:CD1	1:L:496:LYS:CB	2.72	0.61
1:A:206:TRP:CZ3	1:A:211:HIS:HB3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:207:ILE:HB	1:B:211:HIS:CD2	2.36	0.61
1:B:374:ILE:HD12	1:B:405:LEU:HD23	1.83	0.61
1:C:207:ILE:HB	1:C:211:HIS:CD2	2.36	0.61
1:E:302:GLU:HG3	1:E:323:GLY:HA2	1.83	0.61
1:F:515:GLU:OE2	1:F:518:LYS:HD2	2.01	0.61
1:G:179:ASP:HB3	1:G:223:PRO:O	2.00	0.61
1:G:302:GLU:HG3	1:G:323:GLY:HA2	1.83	0.61
1:I:206:TRP:CZ3	1:I:211:HIS:HB3	2.34	0.61
1:L:207:ILE:HB	1:L:211:HIS:CD2	2.36	0.61
1:M:207:ILE:HB	1:M:211:HIS:CD2	2.36	0.61
1:M:302:GLU:HG3	1:M:323:GLY:HA2	1.83	0.61
1:O:336:HIS:CB	1:O:708:ILE:HG22	2.30	0.61
1:A:264:VAL:HG21	1:A:381:THR:HG21	1.83	0.61
1:A:337:SER:OG	1:A:664:ASN:HB2	2.01	0.61
1:A:605:VAL:CG1	1:A:704:GLU:HB3	2.30	0.61
1:E:484:ILE:H	1:E:484:ILE:HD12	1.64	0.61
2:e:1045:LEU:HB2	2:e:1080:LEU:CD2	2.31	0.61
1:F:207:ILE:HB	1:F:211:HIS:CD2	2.36	0.61
1:F:259:TYR:H	1:F:259:TYR:HD2	1.48	0.61
1:H:259:TYR:H	1:H:259:TYR:HD2	1.48	0.61
1:H:628:LEU:C	1:H:629:LEU:HD12	2.25	0.61
1:K:515:GLU:OE2	1:K:518:LYS:HD2	2.01	0.61
1:L:302:GLU:HG3	1:L:323:GLY:HA2	1.83	0.61
1:M:337:SER:OG	1:M:664:ASN:HB2	2.01	0.61
1:A:628:LEU:C	1:A:629:LEU:HD12	2.25	0.61
1:C:189:VAL:CG1	1:O:199:LYS:HG3	2.28	0.61
1:C:337:SER:OG	1:C:664:ASN:HB2	2.01	0.61
2:c:1045:LEU:HB2	2:c:1080:LEU:CD2	2.31	0.61
1:D:319:SER:H	1:E:414:LYS:HG3	1.66	0.61
1:D:515:GLU:OE2	1:D:518:LYS:HD2	2.01	0.61
1:F:652:LEU:HD11	2:f:1111:ARG:HH21	1.64	0.61
1:G:264:VAL:HG21	1:G:381:THR:HG21	1.83	0.61
1:I:243:ILE:CG1	1:I:244:ASP:N	2.63	0.61
2:j:1045:LEU:HB2	2:j:1080:LEU:CD2	2.31	0.61
1:L:224:GLU:HB2	1:L:517:THR:HG21	1.83	0.61
1:L:374:ILE:HD12	1:L:405:LEU:HD23	1.83	0.61
2:o:1045:LEU:HB2	2:o:1080:LEU:CD2	2.31	0.61
1:C:484:ILE:H	1:C:484:ILE:HD12	1.64	0.61
1:F:498:LEU:HB3	1:F:604:ALA:HB2	1.83	0.61
1:J:341:ALA:HB3	2:j:1154:LEU:N	2.13	0.61
1:J:512:ASP:OD1	1:K:245:LYS:HE3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:587:MET:C	1:L:588:ASN:HD22	2.08	0.61
2:l:1045:LEU:HB2	2:l:1080:LEU:CD2	2.31	0.61
1:M:587:MET:C	1:M:588:ASN:HD22	2.08	0.61
1:O:605:VAL:CG1	1:O:704:GLU:HB3	2.30	0.61
1:A:670:GLN:HE21	1:F:305:GLY:HA2	1.66	0.60
1:B:302:GLU:HG3	1:B:323:GLY:HA2	1.83	0.60
1:C:498:LEU:HB3	1:C:604:ALA:HB2	1.83	0.60
1:C:605:VAL:CG1	1:C:704:GLU:HB3	2.30	0.60
1:F:264:VAL:HG21	1:F:381:THR:HG21	1.83	0.60
1:G:222:SER:HB2	1:G:518:LYS:HA	1.81	0.60
1:G:466:ASN:CA	1:M:226:TRP:CG	2.84	0.60
1:H:368:ASN:ND2	1:H:407:PRO:HA	2.16	0.60
2:h:1045:LEU:HD23	2:h:1142:ILE:HB	1.83	0.60
1:J:207:ILE:HB	1:J:211:HIS:CD2	2.36	0.60
1:M:264:VAL:HG21	1:M:381:THR:HG21	1.83	0.60
1:M:498:LEU:HB3	1:M:604:ALA:HB2	1.83	0.60
1:M:515:GLU:OE2	1:M:518:LYS:HD2	2.01	0.60
1:O:207:ILE:HB	1:O:211:HIS:CD2	2.36	0.60
1:O:243:ILE:CG1	1:O:244:ASP:N	2.63	0.60
1:O:260:PRO:HG3	1:O:372:ALA:HB3	1.83	0.60
2:b:1074:VAL:HA	2:b:1099:ARG:HH21	1.67	0.60
1:C:302:GLU:HG3	1:C:323:GLY:HA2	1.83	0.60
1:D:207:ILE:HB	1:D:211:HIS:CD2	2.36	0.60
1:D:587:MET:C	1:D:588:ASN:HD22	2.08	0.60
2:d:1045:LEU:HB2	2:d:1080:LEU:CD2	2.31	0.60
1:E:207:ILE:HB	1:E:211:HIS:CD2	2.36	0.60
1:E:264:VAL:HG21	1:E:381:THR:HG21	1.83	0.60
1:G:498:LEU:HB3	1:G:604:ALA:HB2	1.83	0.60
1:G:628:LEU:C	1:G:629:LEU:HD12	2.25	0.60
1:J:302:GLU:HG3	1:J:323:GLY:HA2	1.83	0.60
2:k:1045:LEU:HD23	2:k:1142:ILE:HB	1.83	0.60
1:L:555:ASP:OD2	1:L:588:ASN:HB2	2.02	0.60
1:M:260:PRO:HG3	1:M:372:ALA:HB3	1.83	0.60
1:O:337:SER:OG	1:O:664:ASN:HB2	2.01	0.60
1:A:207:ILE:HB	1:A:211:HIS:CD2	2.36	0.60
1:A:498:LEU:HB3	1:A:604:ALA:HB2	1.83	0.60
1:B:555:ASP:OD2	1:B:588:ASN:HB2	2.01	0.60
2:d:1045:LEU:HD23	2:d:1142:ILE:HB	1.83	0.60
1:E:224:GLU:HB2	1:E:517:THR:HG21	1.83	0.60
1:E:368:ASN:ND2	1:E:407:PRO:HA	2.17	0.60
1:E:587:MET:C	1:E:588:ASN:HD22	2.08	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:1074:VAL:HA	2:e:1099:ARG:HH21	1.67	0.60
1:G:224:GLU:OE2	1:H:201:THR:HG23	2.01	0.60
1:G:337:SER:OG	1:G:664:ASN:HB2	2.01	0.60
1:H:222:SER:HB2	1:H:518:LYS:HA	1.81	0.60
1:H:224:GLU:HB2	1:H:517:THR:HG21	1.83	0.60
1:L:178:ARG:HH12	1:M:200:ARG:HB3	1.65	0.60
1:L:337:SER:OG	1:L:664:ASN:HB2	2.01	0.60
1:M:368:ASN:ND2	1:M:407:PRO:HA	2.16	0.60
2:o:1074:VAL:HA	2:o:1099:ARG:HH21	1.67	0.60
1:A:243:ILE:CG1	1:A:244:ASP:N	2.64	0.60
1:A:260:PRO:HG3	1:A:372:ALA:HB3	1.83	0.60
1:B:224:GLU:HB2	1:B:517:THR:HG21	1.83	0.60
1:C:243:ILE:CG1	1:C:244:ASP:N	2.63	0.60
1:D:374:ILE:HD12	1:D:405:LEU:HD23	1.83	0.60
1:D:414:LYS:HG3	1:O:319:SER:H	1.65	0.60
1:G:207:ILE:HB	1:G:211:HIS:CD2	2.36	0.60
1:G:224:GLU:HB2	1:G:517:THR:HG21	1.83	0.60
1:G:368:ASN:ND2	1:G:407:PRO:HA	2.16	0.60
1:H:207:ILE:HB	1:H:211:HIS:CD2	2.36	0.60
1:H:337:SER:OG	1:H:664:ASN:HB2	2.01	0.60
1:H:584:ASN:H	1:H:587:MET:HE3	1.64	0.60
1:I:207:ILE:HB	1:I:211:HIS:CD2	2.36	0.60
1:I:264:VAL:HG21	1:I:381:THR:HG21	1.83	0.60
1:I:374:ILE:HD12	1:I:405:LEU:HD23	1.83	0.60
1:J:337:SER:OG	1:J:664:ASN:HB2	2.01	0.60
1:K:368:ASN:ND2	1:K:407:PRO:HA	2.16	0.60
1:M:224:GLU:HB2	1:M:517:THR:HG21	1.83	0.60
1:O:264:VAL:HG21	1:O:381:THR:HG21	1.83	0.60
1:B:259:TYR:H	1:B:259:TYR:HD2	1.48	0.60
2:b:1045:LEU:HD23	2:b:1142:ILE:HB	1.83	0.60
1:E:260:PRO:HG3	1:E:372:ALA:HB3	1.83	0.60
1:E:337:SER:OG	1:E:664:ASN:HB2	2.01	0.60
2:g:1045:LEU:HB2	2:g:1080:LEU:CD2	2.31	0.60
1:H:260:PRO:HG3	1:H:372:ALA:HB3	1.83	0.60
1:I:337:SER:OG	1:I:664:ASN:HB2	2.01	0.60
1:J:259:TYR:H	1:J:259:TYR:HD2	1.48	0.60
1:J:555:ASP:OD2	1:J:588:ASN:HB2	2.01	0.60
2:j:1045:LEU:HD23	2:j:1142:ILE:HB	1.83	0.60
1:L:368:ASN:ND2	1:L:407:PRO:HA	2.16	0.60
1:L:516:THR:CG2	1:M:196:VAL:HG21	2.30	0.60
1:L:605:VAL:CG1	1:L:704:GLU:HB3	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:628:LEU:C	1:M:629:LEU:HD12	2.25	0.60
2:m:1074:VAL:HA	2:m:1099:ARG:HH21	1.66	0.60
1:O:374:ILE:HD12	1:O:405:LEU:HD23	1.83	0.60
1:A:515:GLU:OE2	1:A:518:LYS:HD2	2.01	0.60
1:C:264:VAL:HG21	1:C:381:THR:HG21	1.83	0.60
1:D:264:VAL:HG21	1:D:381:THR:HG21	1.83	0.60
1:D:548:THR:HA	1:D:575:TYR:CE1	2.37	0.60
1:E:555:ASP:OD2	1:E:588:ASN:HB2	2.01	0.60
1:F:260:PRO:HG3	1:F:372:ALA:HB3	1.83	0.60
1:F:374:ILE:HD12	1:F:405:LEU:HD23	1.82	0.60
1:H:555:ASP:OD2	1:H:588:ASN:HB2	2.02	0.60
1:I:260:PRO:HG3	1:I:372:ALA:HB3	1.83	0.60
1:K:498:LEU:HB3	1:K:604:ALA:HB2	1.83	0.60
2:l:1045:LEU:HD23	2:l:1142:ILE:HB	1.83	0.60
1:O:179:ASP:HB3	1:O:223:PRO:O	2.00	0.60
1:A:555:ASP:OD2	1:A:588:ASN:HB2	2.02	0.60
1:C:188:GLU:HA	1:C:192:TYR:CE2	2.37	0.60
2:c:1045:LEU:HD23	2:c:1142:ILE:HB	1.83	0.60
1:D:243:ILE:CG1	1:D:244:ASP:N	2.63	0.60
1:D:259:TYR:H	1:D:259:TYR:HD2	1.48	0.60
1:F:605:VAL:CG1	1:F:704:GLU:HB3	2.30	0.60
2:f:1045:LEU:HB2	2:f:1080:LEU:CD2	2.31	0.60
1:G:188:GLU:HA	1:G:192:TYR:CE2	2.37	0.60
1:G:721:ILE:HG22	1:G:722:LYS:N	2.17	0.60
1:H:319:SER:N	1:I:414:LYS:HE3	2.16	0.60
1:H:515:GLU:OE2	1:H:518:LYS:HD2	2.01	0.60
1:I:188:GLU:HA	1:I:192:TYR:CE2	2.37	0.60
2:i:1045:LEU:HD23	2:i:1142:ILE:HB	1.83	0.60
1:J:224:GLU:HB2	1:J:517:THR:HG21	1.83	0.60
2:k:1045:LEU:HB2	2:k:1080:LEU:CD2	2.31	0.60
1:L:264:VAL:HG21	1:L:381:THR:HG21	1.83	0.60
1:L:548:THR:HA	1:L:575:TYR:CE1	2.37	0.60
2:m:1045:LEU:HB2	2:m:1080:LEU:CD2	2.31	0.60
1:O:498:LEU:HB3	1:O:604:ALA:HB2	1.83	0.60
1:O:555:ASP:OD2	1:O:588:ASN:HB2	2.01	0.60
1:O:587:MET:C	1:O:588:ASN:HD22	2.08	0.60
1:A:188:GLU:HA	1:A:192:TYR:CE2	2.37	0.60
1:A:305:GLY:HA3	1:B:670:GLN:HE21	1.65	0.60
1:A:536:PRO:HG2	1:A:541:GLN:OE1	2.02	0.60
2:a:1045:LEU:HD23	2:a:1142:ILE:HB	1.83	0.60
1:B:291:LYS:HE2	1:B:339:SER:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:ASN:ND2	1:B:407:PRO:HA	2.16	0.60
1:B:548:THR:HA	1:B:575:TYR:CE1	2.37	0.60
2:c:1074:VAL:HA	2:c:1099:ARG:HH21	1.67	0.60
1:F:224:GLU:HB2	1:F:517:THR:HG21	1.83	0.60
1:F:536:PRO:HG2	1:F:541:GLN:OE1	2.02	0.60
1:F:548:THR:HA	1:F:575:TYR:CE1	2.37	0.60
1:G:374:ILE:HD12	1:G:405:LEU:HD23	1.82	0.60
1:H:188:GLU:HA	1:H:192:TYR:CE2	2.37	0.60
1:H:264:VAL:HG21	1:H:381:THR:HG21	1.83	0.60
1:I:302:GLU:HG3	1:I:323:GLY:HA2	1.83	0.60
1:J:368:ASN:ND2	1:J:407:PRO:HA	2.16	0.60
1:K:188:GLU:HA	1:K:192:TYR:CE2	2.37	0.60
1:K:224:GLU:HB2	1:K:517:THR:HG21	1.83	0.60
1:L:536:PRO:HG2	1:L:541:GLN:OE1	2.02	0.60
1:M:259:TYR:H	1:M:259:TYR:HD2	1.48	0.60
1:M:364:ILE:C	1:M:364:ILE:HD12	2.27	0.60
1:B:260:PRO:HG3	1:B:372:ALA:HB3	1.83	0.60
1:B:652:LEU:HD11	2:b:1111:ARG:HH21	1.64	0.60
2:b:1045:LEU:HB2	2:b:1080:LEU:CD2	2.31	0.60
1:D:555:ASP:OD2	1:D:588:ASN:HB2	2.02	0.60
1:F:555:ASP:OD2	1:F:588:ASN:HB2	2.01	0.60
1:G:548:THR:HA	1:G:575:TYR:CE1	2.37	0.60
1:H:498:LEU:HB3	1:H:604:ALA:HB2	1.82	0.60
1:J:291:LYS:HE2	1:J:339:SER:HB2	1.84	0.60
1:J:721:ILE:HG22	1:J:722:LYS:N	2.17	0.60
1:M:555:ASP:OD2	1:M:588:ASN:HB2	2.01	0.60
1:O:536:PRO:HG2	1:O:541:GLN:OE1	2.02	0.60
1:A:224:GLU:HB2	1:A:517:THR:HG21	1.83	0.60
1:C:364:ILE:C	1:C:364:ILE:HD12	2.27	0.60
1:E:524:LYS:HG3	1:E:540:LEU:HD22	1.84	0.60
2:e:1085:PHE:HB3	2:e:1089:ALA:HB2	1.84	0.60
2:f:1074:VAL:HA	2:f:1099:ARG:HH21	1.67	0.60
1:G:524:LYS:HG3	1:G:540:LEU:HD22	1.84	0.60
2:g:1045:LEU:HD23	2:g:1142:ILE:HB	1.83	0.60
2:g:1074:VAL:HA	2:g:1099:ARG:HH21	1.66	0.60
1:H:302:GLU:HG3	1:H:323:GLY:HA2	1.83	0.60
1:J:403:GLN:NE2	1:J:403:GLN:N	2.47	0.60
1:K:266:MET:HB3	1:K:332:VAL:HG11	1.84	0.60
1:K:337:SER:OG	1:K:664:ASN:HB2	2.01	0.60
1:L:243:ILE:CG1	1:L:244:ASP:N	2.63	0.60
1:L:524:LYS:HG3	1:L:540:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:188:GLU:HA	1:O:192:TYR:CE2	2.37	0.60
1:A:291:LYS:HE2	1:A:339:SER:HB2	1.84	0.59
1:A:302:GLU:HG3	1:A:323:GLY:HA2	1.83	0.59
2:a:1045:LEU:HB2	2:a:1080:LEU:CD2	2.31	0.59
1:D:266:MET:HB3	1:D:332:VAL:HG11	1.84	0.59
1:E:178:ARG:HH12	1:F:200:ARG:HB3	1.63	0.59
1:E:364:ILE:C	1:E:364:ILE:HD12	2.27	0.59
1:E:498:LEU:HB3	1:E:604:ALA:HB2	1.82	0.59
1:E:721:ILE:HG22	1:E:722:LYS:N	2.17	0.59
1:F:364:ILE:C	1:F:364:ILE:HD12	2.27	0.59
1:I:368:ASN:ND2	1:I:407:PRO:HA	2.17	0.59
1:I:515:GLU:OE2	1:I:518:LYS:HD2	2.01	0.59
1:J:498:LEU:HB3	1:J:604:ALA:HB2	1.82	0.59
1:K:548:THR:HA	1:K:575:TYR:CE1	2.37	0.59
2:k:1074:VAL:HA	2:k:1099:ARG:HH21	1.67	0.59
1:O:341:ALA:HB3	2:o:1154:LEU:N	2.13	0.59
1:O:548:THR:HA	1:O:575:TYR:CE1	2.37	0.59
1:O:721:ILE:HG22	1:O:722:LYS:N	2.17	0.59
2:o:1085:PHE:HB3	2:o:1089:ALA:HB2	1.84	0.59
1:A:236:PHE:CE1	1:A:240:THR:HB	2.37	0.59
1:A:368:ASN:ND2	1:A:407:PRO:HA	2.16	0.59
1:A:524:LYS:HG3	1:A:540:LEU:HD22	1.84	0.59
1:B:236:PHE:CE1	1:B:240:THR:HB	2.37	0.59
1:E:243:ILE:CG1	1:E:244:ASP:N	2.64	0.59
1:F:524:LYS:HG3	1:F:540:LEU:HD22	1.84	0.59
1:G:243:ILE:CG1	1:G:244:ASP:N	2.63	0.59
1:G:555:ASP:OD2	1:G:588:ASN:HB2	2.02	0.59
2:j:1085:PHE:HB3	2:j:1089:ALA:HB2	1.84	0.59
1:K:524:LYS:HG3	1:K:540:LEU:HD22	1.84	0.59
1:K:555:ASP:OD2	1:K:588:ASN:HB2	2.02	0.59
1:L:188:GLU:HA	1:L:192:TYR:CE2	2.37	0.59
1:O:302:GLU:HG3	1:O:323:GLY:HA2	1.83	0.59
1:A:364:ILE:C	1:A:364:ILE:HD12	2.27	0.59
1:A:516:THR:HG21	1:B:196:VAL:HG21	1.83	0.59
2:a:1074:VAL:HA	2:a:1099:ARG:HH21	1.67	0.59
1:B:536:PRO:HG2	1:B:541:GLN:OE1	2.02	0.59
1:C:260:PRO:HG3	1:C:372:ALA:HB3	1.83	0.59
1:D:188:GLU:HA	1:D:192:TYR:CE2	2.37	0.59
1:D:224:GLU:HB2	1:D:517:THR:HG21	1.83	0.59
1:D:236:PHE:CE1	1:D:240:THR:HB	2.37	0.59
1:F:266:MET:HB3	1:F:332:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:455:VAL:HG13	1:F:455:VAL:O	2.03	0.59
2:f:1085:PHE:HB3	2:f:1089:ALA:HB2	1.84	0.59
1:H:524:LYS:HG3	1:H:540:LEU:HD22	1.84	0.59
1:H:548:THR:HA	1:H:575:TYR:CE1	2.37	0.59
1:I:455:VAL:O	1:I:455:VAL:HG13	2.03	0.59
1:K:207:ILE:HB	1:K:211:HIS:CD2	2.36	0.59
1:K:264:VAL:HG21	1:K:381:THR:HG21	1.83	0.59
1:K:291:LYS:HE2	1:K:339:SER:HB2	1.84	0.59
1:L:330:SER:OG	1:L:450:LEU:HB2	2.03	0.59
1:M:266:MET:HB3	1:M:332:VAL:HG11	1.84	0.59
1:M:330:SER:OG	1:M:450:LEU:HB2	2.03	0.59
1:M:536:PRO:HG2	1:M:541:GLN:OE1	2.02	0.59
1:M:721:ILE:HG22	1:M:722:LYS:N	2.17	0.59
2:m:1085:PHE:HB3	2:m:1089:ALA:HB2	1.84	0.59
1:O:236:PHE:CE1	1:O:240:THR:HB	2.38	0.59
1:O:524:LYS:HG3	1:O:540:LEU:HD22	1.84	0.59
2:o:1045:LEU:HD23	2:o:1142:ILE:HB	1.83	0.59
1:A:374:ILE:HD12	1:A:405:LEU:HD23	1.83	0.59
1:A:455:VAL:O	1:A:455:VAL:HG13	2.03	0.59
1:C:236:PHE:CE1	1:C:240:THR:HB	2.38	0.59
1:D:721:ILE:HG22	1:D:722:LYS:N	2.17	0.59
2:d:1085:PHE:HB3	2:d:1089:ALA:HB2	1.84	0.59
1:E:266:MET:HB3	1:E:332:VAL:HG11	1.84	0.59
1:E:548:THR:HA	1:E:575:TYR:CE1	2.37	0.59
1:H:236:PHE:CE1	1:H:240:THR:HB	2.37	0.59
1:H:266:MET:HB3	1:H:332:VAL:HG11	1.84	0.59
1:H:291:LYS:HE2	1:H:339:SER:HB2	1.84	0.59
1:H:365:ARG:HB3	1:H:412:PRO:HG3	1.85	0.59
1:I:224:GLU:HB2	1:I:517:THR:HG21	1.83	0.59
1:I:341:ALA:HB3	2:i:1154:LEU:N	2.13	0.59
1:I:555:ASP:OD2	1:I:588:ASN:HB2	2.02	0.59
1:J:188:GLU:HA	1:J:192:TYR:CE2	2.37	0.59
1:K:364:ILE:C	1:K:364:ILE:HD12	2.27	0.59
1:M:236:PHE:CE1	1:M:240:THR:HB	2.38	0.59
1:O:368:ASN:ND2	1:O:407:PRO:HA	2.16	0.59
1:C:721:ILE:HG22	1:C:722:LYS:N	2.17	0.59
1:D:364:ILE:C	1:D:364:ILE:HD12	2.27	0.59
1:I:291:LYS:HE2	1:I:339:SER:HB2	1.84	0.59
1:J:536:PRO:HG2	1:J:541:GLN:OE1	2.02	0.59
1:K:536:PRO:HG2	1:K:541:GLN:OE1	2.02	0.59
1:L:266:MET:HB3	1:L:332:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:291:LYS:HE2	1:L:339:SER:HB2	1.84	0.59
1:M:365:ARG:HB3	1:M:412:PRO:HG3	1.85	0.59
1:A:365:ARG:HB3	1:A:412:PRO:HG3	1.85	0.59
1:B:188:GLU:HA	1:B:192:TYR:CE2	2.37	0.59
1:B:266:MET:HB3	1:B:332:VAL:HG11	1.84	0.59
1:C:368:ASN:ND2	1:C:407:PRO:HA	2.16	0.59
1:D:455:VAL:O	1:D:455:VAL:HG13	2.03	0.59
1:D:498:LEU:HB3	1:D:604:ALA:HB2	1.82	0.59
1:E:236:PHE:CE1	1:E:240:THR:HB	2.37	0.59
1:G:536:PRO:HG2	1:G:541:GLN:OE1	2.02	0.59
1:H:721:ILE:HG22	1:H:722:LYS:N	2.17	0.59
1:I:365:ARG:HB3	1:I:412:PRO:HG3	1.85	0.59
1:J:260:PRO:HG3	1:J:372:ALA:HB3	1.83	0.59
1:K:236:PHE:CE1	1:K:240:THR:HB	2.37	0.59
1:L:236:PHE:CE1	1:L:240:THR:HB	2.37	0.59
1:L:316:ILE:CD1	1:M:496:LYS:HB3	2.33	0.59
1:M:548:THR:HA	1:M:575:TYR:CE1	2.37	0.59
1:O:365:ARG:HB3	1:O:412:PRO:HG3	1.85	0.59
1:A:266:MET:HB3	1:A:332:VAL:HG11	1.84	0.59
1:B:264:VAL:HG21	1:B:381:THR:HG21	1.83	0.59
2:b:1047:PHE:CE1	2:b:1080:LEU:HD22	2.38	0.59
1:C:330:SER:OG	1:C:450:LEU:HB2	2.03	0.59
1:D:260:PRO:HG3	1:D:372:ALA:HB3	1.83	0.59
1:D:341:ALA:HB3	2:d:1154:LEU:N	2.13	0.59
1:E:188:GLU:HA	1:E:192:TYR:CE2	2.37	0.59
1:E:455:VAL:HG13	1:E:455:VAL:O	2.03	0.59
1:E:515:GLU:OE2	1:E:518:LYS:HD2	2.01	0.59
1:E:536:PRO:HG2	1:E:541:GLN:OE1	2.02	0.59
1:H:330:SER:OG	1:H:450:LEU:HB2	2.03	0.59
1:I:236:PHE:CE1	1:I:240:THR:HB	2.37	0.59
1:J:236:PHE:CE1	1:J:240:THR:HB	2.38	0.59
1:J:548:THR:HA	1:J:575:TYR:CE1	2.37	0.59
1:K:260:PRO:HG3	1:K:372:ALA:HB3	1.83	0.59
1:B:243:ILE:CG1	1:B:244:ASP:N	2.64	0.59
1:C:224:GLU:HB2	1:C:517:THR:HG21	1.83	0.59
1:D:196:VAL:HG21	1:O:516:THR:HG21	1.84	0.59
1:D:330:SER:OG	1:D:450:LEU:HB2	2.03	0.59
1:F:236:PHE:CE1	1:F:240:THR:HB	2.37	0.59
1:G:364:ILE:C	1:G:364:ILE:HD12	2.27	0.59
1:J:226:TRP:CG	1:K:466:ASN:HA	2.37	0.59
2:j:1056:ALA:HA	2:j:1114:PRO:CB	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:PRO:HG3	1:L:372:ALA:HB3	1.83	0.59
1:L:721:ILE:HG22	1:L:722:LYS:N	2.17	0.59
1:M:403:GLN:NE2	1:M:403:GLN:N	2.47	0.59
1:O:224:GLU:HB2	1:O:517:THR:HG21	1.83	0.59
1:C:548:THR:HA	1:C:575:TYR:CE1	2.37	0.59
1:D:368:ASN:ND2	1:D:407:PRO:HA	2.16	0.59
2:d:1047:PHE:CE1	2:d:1080:LEU:HD22	2.38	0.59
1:E:365:ARG:HB3	1:E:412:PRO:HG3	1.85	0.59
2:e:1047:PHE:CE1	2:e:1080:LEU:HD22	2.38	0.59
1:G:266:MET:HB3	1:G:332:VAL:HG11	1.84	0.59
1:H:341:ALA:HB3	2:h:1154:LEU:N	2.13	0.59
1:I:536:PRO:HG2	1:I:541:GLN:OE1	2.02	0.59
1:L:365:ARG:HB3	1:L:412:PRO:HG3	1.85	0.59
1:M:524:LYS:HG3	1:M:540:LEU:HD22	1.84	0.59
1:A:548:THR:HA	1:A:575:TYR:CE1	2.37	0.59
1:A:658:ASP:O	1:A:718:THR:HG23	2.03	0.59
1:B:364:ILE:C	1:B:364:ILE:HD12	2.27	0.59
1:E:291:LYS:HE2	1:E:339:SER:HB2	1.84	0.59
1:E:330:SER:OG	1:E:450:LEU:HB2	2.03	0.59
1:F:188:GLU:HA	1:F:192:TYR:CE2	2.37	0.59
1:F:365:ARG:HB3	1:F:412:PRO:HG3	1.85	0.59
1:F:368:ASN:ND2	1:F:407:PRO:HA	2.16	0.59
1:F:721:ILE:HG22	1:F:722:LYS:N	2.17	0.59
2:f:1045:LEU:HD23	2:f:1142:ILE:HB	1.83	0.59
1:H:536:PRO:HG2	1:H:541:GLN:OE1	2.02	0.59
2:h:1072:ARG:O	2:h:1074:VAL:HG23	2.03	0.59
1:I:266:MET:HB3	1:I:332:VAL:HG11	1.84	0.59
1:I:517:THR:HG23	1:J:199:LYS:O	2.02	0.59
1:J:365:ARG:HB3	1:J:412:PRO:HG3	1.85	0.59
1:J:606:GLY:HA2	1:J:638:ILE:HB	1.85	0.59
1:M:188:GLU:HA	1:M:192:TYR:CE2	2.37	0.59
2:m:1183:GLN:O	2:m:1187:GLU:HG3	2.03	0.59
1:O:330:SER:OG	1:O:450:LEU:HB2	2.03	0.59
1:O:658:ASP:O	1:O:718:THR:HG23	2.03	0.59
2:a:1072:ARG:O	2:a:1074:VAL:HG23	2.03	0.58
1:B:188:GLU:HA	1:B:192:TYR:CD2	2.38	0.58
1:C:524:LYS:HG3	1:C:540:LEU:HD22	1.84	0.58
1:C:536:PRO:HG2	1:C:541:GLN:OE1	2.02	0.58
1:D:188:GLU:HA	1:D:192:TYR:CD2	2.38	0.58
1:D:291:LYS:HE2	1:D:339:SER:HB2	1.84	0.58
1:F:403:GLN:NE2	1:F:403:GLN:N	2.47	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:VAL:HG13	1:H:199:LYS:HG3	1.85	0.58
1:G:229:ALA:O	1:G:230:SER:HB2	2.03	0.58
1:G:260:PRO:HG3	1:G:372:ALA:HB3	1.83	0.58
1:G:330:SER:OG	1:G:450:LEU:HB2	2.03	0.58
1:H:188:GLU:HA	1:H:192:TYR:CD2	2.38	0.58
1:H:318:GLY:CA	1:I:410:TYR:HE1	2.16	0.58
1:H:364:ILE:HD12	1:H:364:ILE:C	2.27	0.58
1:I:303:VAL:HG23	1:J:670:GLN:HG2	1.85	0.58
1:I:548:THR:HA	1:I:575:TYR:CE1	2.37	0.58
1:J:229:ALA:O	1:J:230:SER:HB2	2.03	0.58
2:j:1183:GLN:O	2:j:1187:GLU:HG3	2.03	0.58
1:K:188:GLU:HA	1:K:192:TYR:CD2	2.39	0.58
1:K:455:VAL:HG13	1:K:455:VAL:O	2.03	0.58
1:K:721:ILE:HG22	1:K:722:LYS:N	2.17	0.58
1:L:364:ILE:C	1:L:364:ILE:HD12	2.27	0.58
2:l:1074:VAL:HA	2:l:1099:ARG:HH21	1.67	0.58
1:M:291:LYS:HE2	1:M:339:SER:HB2	1.84	0.58
1:O:229:ALA:O	1:O:230:SER:HB2	2.03	0.58
1:A:188:GLU:HA	1:A:192:TYR:CD2	2.38	0.58
1:A:670:GLN:HG3	1:F:305:GLY:HA2	1.85	0.58
1:B:455:VAL:O	1:B:455:VAL:HG13	2.03	0.58
1:C:658:ASP:O	1:C:718:THR:HG23	2.03	0.58
2:c:1072:ARG:O	2:c:1074:VAL:HG23	2.03	0.58
2:e:1045:LEU:HD23	2:e:1142:ILE:HB	1.83	0.58
1:G:236:PHE:CE1	1:G:240:THR:HB	2.37	0.58
1:H:319:SER:OG	1:I:414:LYS:CD	2.51	0.58
2:h:1183:GLN:O	2:h:1187:GLU:HG3	2.03	0.58
1:I:364:ILE:C	1:I:364:ILE:HD12	2.27	0.58
2:i:1085:PHE:HB3	2:i:1089:ALA:HB2	1.84	0.58
1:J:364:ILE:C	1:J:364:ILE:HD12	2.27	0.58
1:K:243:ILE:CG1	1:K:244:ASP:N	2.63	0.58
1:L:229:ALA:O	1:L:230:SER:HB2	2.03	0.58
1:M:229:ALA:O	1:M:230:SER:HB2	2.03	0.58
1:M:606:GLY:HA2	1:M:638:ILE:HB	1.85	0.58
2:m:1045:LEU:HD23	2:m:1142:ILE:HB	1.83	0.58
1:O:188:GLU:HA	1:O:192:TYR:CD2	2.38	0.58
1:O:364:ILE:C	1:O:364:ILE:HD12	2.27	0.58
1:A:606:GLY:HA2	1:A:638:ILE:HB	1.85	0.58
1:A:721:ILE:HG22	1:A:722:LYS:N	2.17	0.58
1:B:524:LYS:HG3	1:B:540:LEU:HD22	1.84	0.58
2:b:1072:ARG:O	2:b:1074:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:555:ASP:OD2	1:C:588:ASN:HB2	2.02	0.58
2:d:1183:GLN:O	2:d:1187:GLU:HG3	2.03	0.58
2:e:1183:GLN:O	2:e:1187:GLU:HG3	2.03	0.58
1:I:606:GLY:HA2	1:I:638:ILE:HB	1.85	0.58
2:i:1072:ARG:O	2:i:1074:VAL:HG23	2.03	0.58
2:j:1072:ARG:O	2:j:1074:VAL:HG23	2.03	0.58
1:K:658:ASP:O	1:K:718:THR:HG23	2.03	0.58
1:L:606:GLY:HA2	1:L:638:ILE:HB	1.85	0.58
2:l:1085:PHE:HB3	2:l:1089:ALA:HB2	1.84	0.58
1:O:291:LYS:HE2	1:O:339:SER:HB2	1.84	0.58
1:O:411:TYR:HB3	1:O:412:PRO:CD	2.34	0.58
1:O:455:VAL:O	1:O:455:VAL:HG13	2.03	0.58
2:o:1183:GLN:O	2:o:1187:GLU:HG3	2.03	0.58
1:A:330:SER:OG	1:A:450:LEU:HB2	2.03	0.58
1:A:483:GLN:NE2	1:B:469:VAL:HG21	2.18	0.58
2:b:1085:PHE:HB3	2:b:1089:ALA:HB2	1.84	0.58
1:D:411:TYR:HB3	1:D:412:PRO:CD	2.34	0.58
1:D:536:PRO:HG2	1:D:541:GLN:OE1	2.02	0.58
1:E:606:GLY:HA2	1:E:638:ILE:HB	1.85	0.58
2:g:1072:ARG:O	2:g:1074:VAL:HG23	2.03	0.58
1:H:658:ASP:O	1:H:718:THR:HG23	2.03	0.58
2:h:1085:PHE:HB3	2:h:1089:ALA:HB2	1.84	0.58
1:J:188:GLU:HA	1:J:192:TYR:CD2	2.38	0.58
1:K:229:ALA:O	1:K:230:SER:HB2	2.03	0.58
2:k:1183:GLN:O	2:k:1187:GLU:HG3	2.03	0.58
1:L:178:ARG:NH1	1:M:200:ARG:HB3	2.18	0.58
1:O:266:MET:HB3	1:O:332:VAL:HG11	1.84	0.58
1:B:606:GLY:HA2	1:B:638:ILE:HB	1.85	0.58
2:b:1183:GLN:O	2:b:1187:GLU:HG3	2.03	0.58
1:D:258:ALA:HA	1:D:371:THR:OG1	2.04	0.58
1:D:365:ARG:HB3	1:D:412:PRO:HG3	1.85	0.58
1:D:524:LYS:HG3	1:D:540:LEU:HD22	1.84	0.58
2:d:1074:VAL:HA	2:d:1099:ARG:HH21	1.67	0.58
1:F:188:GLU:HA	1:F:192:TYR:CD2	2.39	0.58
1:F:330:SER:OG	1:F:450:LEU:HB2	2.03	0.58
1:G:658:ASP:O	1:G:718:THR:HG23	2.03	0.58
1:I:658:ASP:O	1:I:718:THR:HG23	2.03	0.58
1:J:411:TYR:HB3	1:J:412:PRO:CD	2.34	0.58
1:J:524:LYS:HG3	1:J:540:LEU:HD22	1.84	0.58
1:J:658:ASP:O	1:J:718:THR:HG23	2.03	0.58
1:K:330:SER:OG	1:K:450:LEU:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:365:ARG:HB3	1:K:412:PRO:HG3	1.85	0.58
1:M:188:GLU:HA	1:M:192:TYR:CD2	2.38	0.58
1:O:258:ALA:HA	1:O:371:THR:OG1	2.04	0.58
1:A:493:PHE:HA	1:A:591:ILE:O	2.04	0.58
1:B:330:SER:OG	1:B:450:LEU:HB2	2.03	0.58
1:D:316:ILE:HD12	1:E:496:LYS:HB3	1.85	0.58
1:D:498:LEU:HD22	1:D:498:LEU:N	2.19	0.58
1:D:606:GLY:HA2	1:D:638:ILE:HB	1.85	0.58
1:E:493:PHE:HA	1:E:591:ILE:O	2.04	0.58
1:G:466:ASN:O	1:M:226:TRP:HB3	2.03	0.58
2:g:1183:GLN:O	2:g:1187:GLU:HG3	2.03	0.58
1:H:258:ALA:HA	1:H:371:THR:OG1	2.04	0.58
1:I:330:SER:OG	1:I:450:LEU:HB2	2.03	0.58
1:J:258:ALA:HA	1:J:371:THR:OG1	2.04	0.58
1:J:330:SER:OG	1:J:450:LEU:HB2	2.03	0.58
1:J:455:VAL:O	1:J:455:VAL:HG13	2.03	0.58
1:O:498:LEU:HD22	1:O:498:LEU:N	2.19	0.58
1:C:606:GLY:HA2	1:C:638:ILE:HB	1.85	0.58
1:E:658:ASP:O	1:E:718:THR:HG23	2.03	0.58
1:F:411:TYR:HB3	1:F:412:PRO:CD	2.34	0.58
1:F:493:PHE:HA	1:F:591:ILE:O	2.04	0.58
2:g:1085:PHE:HB3	2:g:1089:ALA:HB2	1.84	0.58
1:H:421:LEU:O	1:H:422:ASN:C	2.47	0.58
2:h:1047:PHE:CE1	2:h:1080:LEU:HD22	2.38	0.58
2:h:1074:VAL:HA	2:h:1099:ARG:HH21	1.66	0.58
1:J:264:VAL:HG21	1:J:381:THR:HG21	1.83	0.58
1:J:636:ARG:HA	1:J:639:LEU:HD23	1.86	0.58
2:j:1074:VAL:HA	2:j:1099:ARG:HH21	1.67	0.58
2:k:1099:ARG:HD2	2:k:1102:ILE:HD12	1.86	0.58
1:M:243:ILE:CG1	1:M:244:ASP:N	2.63	0.58
1:M:341:ALA:HB3	2:m:1154:LEU:N	2.13	0.58
1:M:455:VAL:HG13	1:M:455:VAL:O	2.03	0.58
2:m:1099:ARG:HD2	2:m:1102:ILE:HD12	1.86	0.58
1:B:258:ALA:HA	1:B:371:THR:OG1	2.04	0.58
1:C:266:MET:HB3	1:C:332:VAL:HG11	1.84	0.58
1:E:188:GLU:HA	1:E:192:TYR:CD2	2.38	0.58
1:E:258:ALA:HA	1:E:371:THR:OG1	2.04	0.58
1:F:291:LYS:HE2	1:F:339:SER:HB2	1.84	0.58
1:F:606:GLY:HA2	1:F:638:ILE:HB	1.85	0.58
1:G:188:GLU:HA	1:G:192:TYR:CD2	2.38	0.58
1:G:291:LYS:HE2	1:G:339:SER:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:365:ARG:HB3	1:G:412:PRO:HG3	1.85	0.58
1:G:411:TYR:HB3	1:G:412:PRO:CD	2.34	0.58
1:I:178:ARG:HH12	1:J:200:ARG:HB3	1.68	0.58
2:i:1183:GLN:O	2:i:1187:GLU:HG3	2.03	0.58
1:L:411:TYR:HB3	1:L:412:PRO:CD	2.34	0.58
1:O:403:GLN:NE2	1:O:403:GLN:N	2.47	0.58
2:o:1072:ARG:O	2:o:1074:VAL:HG23	2.03	0.58
1:A:411:TYR:HB3	1:A:412:PRO:CD	2.34	0.58
1:A:498:LEU:HD22	1:A:498:LEU:N	2.19	0.58
2:a:1085:PHE:HA	2:a:1089:ALA:HA	1.86	0.58
2:a:1085:PHE:HB3	2:a:1089:ALA:HB2	1.84	0.58
1:B:721:ILE:HG22	1:B:722:LYS:N	2.17	0.58
2:b:1085:PHE:HA	2:b:1089:ALA:HA	1.86	0.58
1:C:291:LYS:HE2	1:C:339:SER:HB2	1.84	0.58
1:F:498:LEU:HD22	1:F:498:LEU:N	2.19	0.58
1:G:606:GLY:HA2	1:G:638:ILE:HB	1.85	0.58
1:H:493:PHE:HA	1:H:591:ILE:O	2.04	0.58
2:k:1085:PHE:HB3	2:k:1089:ALA:HB2	1.84	0.58
2:l:1183:GLN:O	2:l:1187:GLU:HG3	2.03	0.58
2:a:1183:GLN:O	2:a:1187:GLU:HG3	2.03	0.58
2:a:1194:GLU:C	2:a:1196:VAL:H	2.12	0.58
1:B:498:LEU:HD22	1:B:498:LEU:N	2.19	0.58
2:c:1183:GLN:O	2:c:1187:GLU:HG3	2.03	0.58
1:D:493:PHE:HA	1:D:591:ILE:O	2.04	0.58
2:d:1173:VAL:HB	2:d:1190:ALA:HA	1.86	0.58
1:E:229:ALA:O	1:E:230:SER:HB2	2.03	0.58
2:e:1173:VAL:HB	2:e:1190:ALA:HA	1.86	0.58
2:f:1072:ARG:O	2:f:1074:VAL:HG23	2.03	0.58
1:G:258:ALA:HA	1:G:371:THR:OG1	2.04	0.58
1:G:412:PRO:O	1:G:413:SER:C	2.47	0.58
1:G:455:VAL:O	1:G:455:VAL:HG13	2.03	0.58
1:G:469:VAL:HG21	1:M:483:GLN:CD	2.26	0.58
1:H:498:LEU:HD22	1:H:498:LEU:N	2.19	0.58
1:I:188:GLU:HA	1:I:192:TYR:CD2	2.38	0.58
2:j:1085:PHE:HA	2:j:1089:ALA:HA	1.86	0.58
2:k:1194:GLU:C	2:k:1196:VAL:H	2.12	0.58
1:L:658:ASP:O	1:L:718:THR:HG23	2.03	0.58
2:m:1194:GLU:C	2:m:1196:VAL:H	2.12	0.58
1:C:188:GLU:HA	1:C:192:TYR:CD2	2.38	0.57
1:C:411:TYR:HB3	1:C:412:PRO:CD	2.34	0.57
2:c:1185:GLN:O	2:c:1189:ILE:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:1072:ARG:O	2:d:1074:VAL:HG23	2.03	0.57
1:E:498:LEU:N	1:E:498:LEU:HD22	2.19	0.57
1:F:658:ASP:O	1:F:718:THR:HG23	2.03	0.57
2:f:1161:LYS:O	2:f:1165:ILE:HG13	2.04	0.57
2:f:1183:GLN:O	2:f:1187:GLU:HG3	2.03	0.57
1:G:498:LEU:HD22	1:G:498:LEU:N	2.19	0.57
2:h:1085:PHE:HA	2:h:1089:ALA:HA	1.86	0.57
2:i:1047:PHE:CE1	2:i:1080:LEU:HD22	2.38	0.57
2:i:1185:GLN:O	2:i:1189:ILE:HG13	2.04	0.57
1:J:266:MET:HB3	1:J:332:VAL:HG11	1.84	0.57
1:K:412:PRO:O	1:K:413:SER:C	2.47	0.57
1:M:421:LEU:O	1:M:422:ASN:C	2.47	0.57
1:M:658:ASP:O	1:M:718:THR:HG23	2.03	0.57
2:o:1099:ARG:HD2	2:o:1102:ILE:HD12	1.86	0.57
1:A:636:ARG:HA	1:A:639:LEU:HD23	1.86	0.57
2:b:1173:VAL:HB	2:b:1190:ALA:HA	1.87	0.57
1:C:229:ALA:O	1:C:230:SER:HB2	2.03	0.57
1:C:258:ALA:HA	1:C:371:THR:OG1	2.04	0.57
1:C:455:VAL:HG13	1:C:455:VAL:O	2.03	0.57
2:c:1099:ARG:HD2	2:c:1102:ILE:HD12	1.86	0.57
1:D:414:LYS:HG3	1:O:319:SER:HA	1.86	0.57
1:E:421:LEU:O	1:E:422:ASN:C	2.47	0.57
2:e:1161:LYS:O	2:e:1165:ILE:HG13	2.04	0.57
2:e:1194:GLU:C	2:e:1196:VAL:H	2.12	0.57
1:F:229:ALA:O	1:F:230:SER:HB2	2.03	0.57
1:G:468:ARG:NH1	1:M:480:VAL:HG11	2.18	0.57
1:I:421:LEU:O	1:I:422:ASN:C	2.47	0.57
1:I:524:LYS:HG3	1:I:540:LEU:HD22	1.84	0.57
1:J:421:LEU:O	1:J:422:ASN:C	2.47	0.57
1:K:498:LEU:HD22	1:K:498:LEU:N	2.19	0.57
2:k:1072:ARG:O	2:k:1074:VAL:HG23	2.03	0.57
2:k:1085:PHE:HA	2:k:1089:ALA:HA	1.86	0.57
1:L:258:ALA:HA	1:L:371:THR:OG1	2.04	0.57
2:l:1099:ARG:HD2	2:l:1102:ILE:HD12	1.86	0.57
1:M:411:TYR:HB3	1:M:412:PRO:CD	2.34	0.57
2:m:1047:PHE:CE1	2:m:1080:LEU:HD22	2.38	0.57
2:m:1072:ARG:O	2:m:1074:VAL:HG23	2.03	0.57
2:a:1173:VAL:HB	2:a:1190:ALA:HA	1.86	0.57
1:B:229:ALA:O	1:B:230:SER:HB2	2.03	0.57
1:B:365:ARG:HB3	1:B:412:PRO:HG3	1.85	0.57
1:B:411:TYR:HB3	1:B:412:PRO:CD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:ARG:HA	1:B:639:LEU:HD23	1.86	0.57
1:C:636:ARG:HA	1:C:639:LEU:HD23	1.86	0.57
2:c:1173:VAL:HB	2:c:1190:ALA:HA	1.86	0.57
1:D:670:GLN:CG	1:O:305:GLY:CA	2.76	0.57
1:F:341:ALA:HB3	2:f:1154:LEU:N	2.13	0.57
1:G:493:PHE:HA	1:G:591:ILE:O	2.04	0.57
2:g:1185:GLN:O	2:g:1189:ILE:HG13	2.04	0.57
1:H:412:PRO:O	1:H:413:SER:C	2.47	0.57
1:H:455:VAL:HG13	1:H:455:VAL:O	2.03	0.57
1:H:606:GLY:HA2	1:H:638:ILE:HB	1.85	0.57
1:I:184:PRO:HD2	1:I:187:LEU:HD12	1.87	0.57
1:I:229:ALA:O	1:I:230:SER:HB2	2.03	0.57
1:I:493:PHE:HA	1:I:591:ILE:O	2.04	0.57
1:I:721:ILE:HG22	1:I:722:LYS:N	2.17	0.57
1:J:412:PRO:O	1:J:413:SER:C	2.47	0.57
1:J:498:LEU:HD22	1:J:498:LEU:N	2.19	0.57
1:K:411:TYR:HB3	1:K:412:PRO:CD	2.34	0.57
1:L:455:VAL:O	1:L:455:VAL:HG13	2.03	0.57
1:L:517:THR:HG23	1:M:199:LYS:O	2.04	0.57
1:M:411:TYR:HB3	1:M:412:PRO:HD3	1.86	0.57
1:M:493:PHE:HA	1:M:591:ILE:O	2.04	0.57
1:M:636:ARG:HA	1:M:639:LEU:HD23	1.86	0.57
2:m:1185:GLN:O	2:m:1189:ILE:HG13	2.05	0.57
1:O:493:PHE:HA	1:O:591:ILE:O	2.04	0.57
2:o:1047:PHE:CE1	2:o:1080:LEU:HD22	2.38	0.57
2:a:1185:GLN:O	2:a:1189:ILE:HG13	2.04	0.57
1:B:412:PRO:O	1:B:413:SER:C	2.47	0.57
2:b:1161:LYS:O	2:b:1165:ILE:HG13	2.04	0.57
1:C:184:PRO:HD2	1:C:187:LEU:HD12	1.87	0.57
1:D:658:ASP:O	1:D:718:THR:HG23	2.03	0.57
2:d:1099:ARG:HD2	2:d:1102:ILE:HD12	1.86	0.57
1:E:412:PRO:O	1:E:413:SER:C	2.47	0.57
2:e:1072:ARG:O	2:e:1074:VAL:HG23	2.03	0.57
1:G:483:GLN:NE2	1:H:245:LYS:H	2.02	0.57
2:i:1085:PHE:HA	2:i:1089:ALA:HA	1.86	0.57
1:L:412:PRO:O	1:L:413:SER:C	2.47	0.57
1:L:484:ILE:HD12	1:L:484:ILE:N	2.20	0.57
1:L:636:ARG:HA	1:L:639:LEU:HD23	1.86	0.57
2:m:1161:LYS:O	2:m:1165:ILE:HG13	2.04	0.57
1:B:421:LEU:O	1:B:422:ASN:C	2.47	0.57
1:B:484:ILE:HD12	1:B:484:ILE:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:493:PHE:HA	1:C:591:ILE:O	2.04	0.57
2:c:1085:PHE:HB3	2:c:1089:ALA:HB2	1.84	0.57
1:D:411:TYR:HB3	1:D:412:PRO:HD3	1.86	0.57
1:D:412:PRO:O	1:D:413:SER:C	2.47	0.57
1:E:411:TYR:HB3	1:E:412:PRO:HD3	1.86	0.57
1:F:411:TYR:HB3	1:F:412:PRO:HD3	1.86	0.57
1:F:484:ILE:HD12	1:F:484:ILE:N	2.20	0.57
1:G:421:LEU:O	1:G:422:ASN:C	2.47	0.57
1:H:184:PRO:HD2	1:H:187:LEU:HD12	1.87	0.57
1:H:480:VAL:HG11	1:I:468:ARG:NH1	2.19	0.57
2:h:1099:ARG:HD2	2:h:1102:ILE:HD12	1.86	0.57
1:K:258:ALA:HA	1:K:371:THR:OG1	2.04	0.57
1:K:411:TYR:HB3	1:K:412:PRO:HD3	1.87	0.57
1:K:421:LEU:O	1:K:422:ASN:C	2.47	0.57
1:M:498:LEU:N	1:M:498:LEU:HD22	2.19	0.57
1:A:229:ALA:O	1:A:230:SER:HB2	2.03	0.57
1:B:411:TYR:HB3	1:B:412:PRO:HD3	1.87	0.57
2:e:1185:GLN:O	2:e:1189:ILE:HG13	2.04	0.57
1:F:258:ALA:HA	1:F:371:THR:OG1	2.04	0.57
1:G:411:TYR:HB3	1:G:412:PRO:HD3	1.86	0.57
1:I:319:SER:N	1:J:414:LYS:HE3	2.19	0.57
2:i:1194:GLU:C	2:i:1196:VAL:H	2.12	0.57
2:j:1099:ARG:HD2	2:j:1102:ILE:HD12	1.86	0.57
1:K:224:GLU:OE2	1:L:201:THR:HG23	2.04	0.57
2:k:1047:PHE:CE1	2:k:1080:LEU:HD22	2.38	0.57
1:L:188:GLU:HA	1:L:192:TYR:CD2	2.38	0.57
2:l:1046:TYR:CE2	2:l:1131:ILE:HG12	2.40	0.57
1:M:484:ILE:HD12	1:M:484:ILE:N	2.20	0.57
2:o:1085:PHE:HA	2:o:1089:ALA:HA	1.86	0.57
2:o:1161:LYS:O	2:o:1165:ILE:HG13	2.04	0.57
2:o:1185:GLN:O	2:o:1189:ILE:HG13	2.05	0.57
1:A:258:ALA:HA	1:A:371:THR:OG1	2.04	0.57
1:A:411:TYR:HB3	1:A:412:PRO:HD3	1.87	0.57
2:a:1099:ARG:HD2	2:a:1102:ILE:HD12	1.86	0.57
1:B:615:ALA:HB2	1:B:635:ILE:HG13	1.87	0.57
1:D:484:ILE:HD12	1:D:484:ILE:N	2.20	0.57
1:E:411:TYR:HB3	1:E:412:PRO:CD	2.34	0.57
1:E:484:ILE:HD12	1:E:484:ILE:N	2.20	0.57
2:e:1127:ALA:O	2:e:1131:ILE:HG13	2.05	0.57
2:f:1056:ALA:HA	2:f:1114:PRO:CB	2.31	0.57
2:g:1047:PHE:CE1	2:g:1080:LEU:HD22	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:411:TYR:HB3	1:H:412:PRO:CD	2.34	0.57
1:H:480:VAL:HG21	1:I:468:ARG:CG	2.33	0.57
1:I:258:ALA:HA	1:I:371:THR:OG1	2.04	0.57
2:j:1185:GLN:O	2:j:1189:ILE:HG13	2.04	0.57
1:K:606:GLY:HA2	1:K:638:ILE:HB	1.85	0.57
1:M:258:ALA:HA	1:M:371:THR:OG1	2.04	0.57
1:O:636:ARG:HA	1:O:639:LEU:HD23	1.86	0.57
1:A:484:ILE:HD12	1:A:484:ILE:N	2.20	0.57
1:B:184:PRO:HD2	1:B:187:LEU:HD12	1.87	0.57
1:B:226:TRP:CD1	1:C:466:ASN:HA	2.40	0.57
1:B:658:ASP:O	1:B:718:THR:HG23	2.03	0.57
2:b:1099:ARG:HD2	2:b:1102:ILE:HD12	1.86	0.57
1:D:421:LEU:O	1:D:422:ASN:C	2.47	0.57
2:d:1085:PHE:HA	2:d:1089:ALA:HA	1.86	0.57
2:d:1161:LYS:O	2:d:1165:ILE:HG13	2.04	0.57
1:F:403:GLN:HE21	1:F:403:GLN:N	1.99	0.57
2:f:1194:GLU:C	2:f:1196:VAL:H	2.12	0.57
2:g:1046:TYR:CE2	2:g:1131:ILE:HG12	2.40	0.57
1:H:403:GLN:NE2	1:H:403:GLN:N	2.47	0.57
2:h:1173:VAL:HB	2:h:1190:ALA:HA	1.86	0.57
1:I:411:TYR:HB3	1:I:412:PRO:CD	2.34	0.57
1:I:484:ILE:HD12	1:I:484:ILE:N	2.20	0.57
1:I:498:LEU:HD22	1:I:498:LEU:N	2.19	0.57
2:i:1074:VAL:HA	2:i:1099:ARG:HH21	1.67	0.57
1:J:633:LYS:O	1:J:636:ARG:HG2	2.05	0.57
1:K:484:ILE:HD12	1:K:484:ILE:N	2.20	0.57
2:k:1056:ALA:HA	2:k:1114:PRO:CB	2.31	0.57
2:k:1161:LYS:O	2:k:1165:ILE:HG13	2.04	0.57
1:L:421:LEU:O	1:L:422:ASN:C	2.47	0.57
2:l:1072:ARG:O	2:l:1074:VAL:HG23	2.04	0.57
2:l:1161:LYS:O	2:l:1165:ILE:HG13	2.04	0.57
1:M:184:PRO:HD2	1:M:187:LEU:HD12	1.87	0.57
2:m:1046:TYR:CE2	2:m:1131:ILE:HG12	2.40	0.57
1:O:606:GLY:HA2	1:O:638:ILE:HB	1.85	0.57
1:C:498:LEU:HD22	1:C:498:LEU:N	2.19	0.57
2:c:1161:LYS:O	2:c:1165:ILE:HG13	2.04	0.57
1:D:184:PRO:HD2	1:D:187:LEU:HD12	1.87	0.57
1:D:229:ALA:O	1:D:230:SER:HB2	2.03	0.57
1:D:670:GLN:HG3	1:O:305:GLY:CA	2.34	0.57
2:d:1056:ALA:HA	2:d:1114:PRO:CB	2.31	0.57
2:d:1194:GLU:C	2:d:1196:VAL:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:412:PRO:O	1:F:413:SER:C	2.47	0.57
1:F:421:LEU:O	1:F:422:ASN:C	2.47	0.57
2:g:1127:ALA:O	2:g:1131:ILE:HG13	2.05	0.57
1:H:615:ALA:HB2	1:H:635:ILE:HG13	1.87	0.57
2:h:1185:GLN:O	2:h:1189:ILE:HG13	2.05	0.57
1:I:305:GLY:HA3	1:J:670:GLN:HE21	1.68	0.57
1:I:636:ARG:HA	1:I:639:LEU:HD23	1.86	0.57
2:i:1099:ARG:HD2	2:i:1102:ILE:HD12	1.86	0.57
1:J:484:ILE:HD12	1:J:484:ILE:N	2.20	0.57
1:L:633:LYS:O	1:L:636:ARG:HG2	2.05	0.57
1:M:403:GLN:HE21	1:M:403:GLN:N	1.99	0.57
1:O:403:GLN:HE21	1:O:403:GLN:N	1.99	0.57
1:A:421:LEU:O	1:A:422:ASN:C	2.47	0.57
1:A:615:ALA:HB2	1:A:635:ILE:HG13	1.87	0.57
2:f:1099:ARG:HD2	2:f:1102:ILE:HD12	1.86	0.57
2:f:1185:GLN:O	2:f:1189:ILE:HG13	2.05	0.57
2:g:1161:LYS:O	2:g:1165:ILE:HG13	2.04	0.57
1:H:229:ALA:O	1:H:230:SER:HB2	2.03	0.57
1:I:412:PRO:O	1:I:413:SER:C	2.47	0.57
1:K:306:ASN:HA	1:L:669:ARG:CB	2.35	0.57
1:K:493:PHE:HA	1:K:591:ILE:O	2.04	0.57
1:L:498:LEU:HD22	1:L:498:LEU:N	2.19	0.57
1:O:411:TYR:HB3	1:O:412:PRO:HD3	1.86	0.57
1:O:633:LYS:O	1:O:636:ARG:HG2	2.05	0.57
2:b:1185:GLN:O	2:b:1189:ILE:HG13	2.05	0.56
1:C:365:ARG:CZ	1:C:418:PRO:HG3	2.35	0.56
1:C:412:PRO:O	1:C:413:SER:C	2.47	0.56
2:d:1046:TYR:CE2	2:d:1131:ILE:HG12	2.40	0.56
2:d:1127:ALA:O	2:d:1131:ILE:HG13	2.05	0.56
1:E:636:ARG:HA	1:E:639:LEU:HD23	1.86	0.56
1:F:615:ALA:HB2	1:F:635:ILE:HG13	1.87	0.56
1:F:636:ARG:HA	1:F:639:LEU:HD23	1.86	0.56
1:G:484:ILE:HD12	1:G:484:ILE:N	2.20	0.56
1:G:615:ALA:HB2	1:G:635:ILE:HG13	1.87	0.56
1:H:411:TYR:HB3	1:H:412:PRO:HD3	1.86	0.56
2:i:1127:ALA:O	2:i:1131:ILE:HG13	2.05	0.56
2:i:1173:VAL:HB	2:i:1190:ALA:HA	1.86	0.56
1:J:493:PHE:HA	1:J:591:ILE:O	2.04	0.56
2:j:1194:GLU:C	2:j:1196:VAL:H	2.12	0.56
1:M:365:ARG:CZ	1:M:418:PRO:HG3	2.35	0.56
1:O:484:ILE:HD12	1:O:484:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:421:LEU:O	1:C:422:ASN:C	2.47	0.56
2:e:1085:PHE:HA	2:e:1089:ALA:HA	1.86	0.56
2:f:1085:PHE:HA	2:f:1089:ALA:HA	1.86	0.56
1:G:636:ARG:HA	1:G:639:LEU:HD23	1.86	0.56
2:g:1153:GLY:O	2:g:1156:PRO:HD2	2.06	0.56
1:H:484:ILE:HD12	1:H:484:ILE:N	2.20	0.56
1:H:512:ASP:OD1	1:I:245:LYS:CE	2.43	0.56
1:H:636:ARG:HA	1:H:639:LEU:HD23	1.86	0.56
2:h:1161:LYS:O	2:h:1165:ILE:HG13	2.04	0.56
1:I:326:ASN:O	1:I:327:SER:HB2	2.05	0.56
2:j:1127:ALA:O	2:j:1131:ILE:HG13	2.05	0.56
1:K:326:ASN:O	1:K:327:SER:HB2	2.05	0.56
2:k:1127:ALA:O	2:k:1131:ILE:HG13	2.05	0.56
1:L:326:ASN:O	1:L:327:SER:HB2	2.05	0.56
2:l:1085:PHE:HA	2:l:1089:ALA:HA	1.86	0.56
2:m:1173:VAL:HB	2:m:1190:ALA:HA	1.86	0.56
2:o:1153:GLY:O	2:o:1156:PRO:HD2	2.06	0.56
1:A:184:PRO:HD2	1:A:187:LEU:HD12	1.87	0.56
1:A:326:ASN:O	1:A:327:SER:HB2	2.06	0.56
1:A:365:ARG:CZ	1:A:418:PRO:HG3	2.35	0.56
1:A:670:GLN:CG	1:F:305:GLY:HA2	2.33	0.56
2:a:1046:TYR:CE2	2:a:1131:ILE:HG12	2.40	0.56
2:a:1127:ALA:O	2:a:1131:ILE:HG13	2.05	0.56
2:b:1046:TYR:CE2	2:b:1131:ILE:HG12	2.40	0.56
1:C:365:ARG:HB3	1:C:412:PRO:HG3	1.85	0.56
1:C:403:GLN:NE2	1:C:403:GLN:N	2.47	0.56
1:C:633:LYS:O	1:C:636:ARG:HG2	2.05	0.56
2:c:1153:GLY:O	2:c:1156:PRO:HD2	2.05	0.56
1:D:245:LYS:HE3	1:O:512:ASP:OD1	2.05	0.56
1:D:365:ARG:CZ	1:D:418:PRO:HG3	2.35	0.56
1:E:477:TRP:HB3	1:E:481:LEU:HD12	1.87	0.56
2:e:1046:TYR:CE2	2:e:1131:ILE:HG12	2.40	0.56
1:F:365:ARG:CZ	1:F:418:PRO:HG3	2.35	0.56
1:F:477:TRP:HB3	1:F:481:LEU:HD12	1.88	0.56
2:f:1047:PHE:CE1	2:f:1080:LEU:HD22	2.38	0.56
2:f:1173:VAL:HB	2:f:1190:ALA:HA	1.86	0.56
1:G:184:PRO:HD2	1:G:187:LEU:HD12	1.87	0.56
1:G:481:LEU:H	1:G:482:PRO:HD2	1.70	0.56
2:g:1173:VAL:HB	2:g:1190:ALA:HA	1.86	0.56
2:g:1194:GLU:C	2:g:1196:VAL:H	2.12	0.56
1:H:365:ARG:CZ	1:H:418:PRO:HG3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:477:TRP:HB3	1:H:481:LEU:HD12	1.88	0.56
1:I:316:ILE:CD1	1:J:496:LYS:CB	2.76	0.56
1:I:411:TYR:HB3	1:I:412:PRO:HD3	1.86	0.56
1:K:633:LYS:O	1:K:636:ARG:HG2	2.05	0.56
1:L:493:PHE:HA	1:L:591:ILE:O	2.04	0.56
2:l:1127:ALA:O	2:l:1131:ILE:HG13	2.05	0.56
2:l:1185:GLN:O	2:l:1189:ILE:HG13	2.04	0.56
1:M:326:ASN:O	1:M:327:SER:HB2	2.05	0.56
1:M:412:PRO:O	1:M:413:SER:C	2.47	0.56
1:O:326:ASN:O	1:O:327:SER:HB2	2.06	0.56
1:B:477:TRP:HB3	1:B:481:LEU:HD12	1.88	0.56
1:C:411:TYR:HB3	1:C:412:PRO:HD3	1.87	0.56
1:C:484:ILE:HD12	1:C:484:ILE:N	2.20	0.56
1:D:326:ASN:O	1:D:327:SER:HB2	2.05	0.56
1:E:316:ILE:HD12	1:F:496:LYS:HB3	1.87	0.56
1:E:341:ALA:HB3	2:e:1154:LEU:N	2.13	0.56
2:e:1153:GLY:O	2:e:1156:PRO:HD2	2.06	0.56
1:F:184:PRO:HD2	1:F:187:LEU:HD12	1.87	0.56
1:G:326:ASN:O	1:G:327:SER:HB2	2.06	0.56
1:G:365:ARG:CZ	1:G:418:PRO:HG3	2.35	0.56
1:G:414:LYS:CG	1:M:319:SER:HA	2.36	0.56
2:g:1056:ALA:HA	2:g:1114:PRO:CB	2.31	0.56
1:H:326:ASN:O	1:H:327:SER:HB2	2.05	0.56
2:h:1127:ALA:O	2:h:1131:ILE:HG13	2.05	0.56
2:k:1046:TYR:CE2	2:k:1131:ILE:HG12	2.40	0.56
1:L:615:ALA:HB2	1:L:635:ILE:HG13	1.87	0.56
1:M:615:ALA:HB2	1:M:635:ILE:HG13	1.87	0.56
2:m:1155:VAL:HB	2:m:1156:PRO:HD3	1.88	0.56
1:B:493:PHE:HA	1:B:591:ILE:O	2.04	0.56
1:D:615:ALA:HB2	1:D:635:ILE:HG13	1.87	0.56
2:e:1155:VAL:HB	2:e:1156:PRO:HD3	1.88	0.56
1:F:633:LYS:O	1:F:636:ARG:HG2	2.05	0.56
2:f:1046:TYR:CE2	2:f:1131:ILE:HG12	2.40	0.56
1:G:403:GLN:NE2	1:G:403:GLN:N	2.47	0.56
2:g:1099:ARG:HD2	2:g:1102:ILE:HD12	1.86	0.56
2:h:1046:TYR:CE2	2:h:1131:ILE:HG12	2.40	0.56
1:I:224:GLU:OE2	1:J:201:THR:HG23	2.05	0.56
1:I:615:ALA:HB2	1:I:635:ILE:HG13	1.87	0.56
1:I:633:LYS:O	1:I:636:ARG:HG2	2.05	0.56
2:j:1161:LYS:O	2:j:1165:ILE:HG13	2.04	0.56
2:k:1185:GLN:O	2:k:1189:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:1153:GLY:O	2:m:1156:PRO:HD2	2.06	0.56
1:O:184:PRO:HD2	1:O:187:LEU:HD12	1.86	0.56
1:O:421:LEU:O	1:O:422:ASN:C	2.47	0.56
1:A:305:GLY:C	1:B:670:GLN:HG3	2.30	0.56
1:A:412:PRO:O	1:A:413:SER:C	2.47	0.56
1:A:477:TRP:HB3	1:A:481:LEU:HD12	1.88	0.56
2:a:1056:ALA:HA	2:a:1114:PRO:CB	2.31	0.56
2:a:1153:GLY:O	2:a:1156:PRO:HD2	2.06	0.56
2:c:1056:ALA:HA	2:c:1114:PRO:CB	2.31	0.56
2:d:1185:GLN:O	2:d:1189:ILE:HG13	2.05	0.56
2:e:1099:ARG:HD2	2:e:1102:ILE:HD12	1.86	0.56
1:G:466:ASN:C	1:M:226:TRP:CB	2.79	0.56
2:g:1155:VAL:HB	2:g:1156:PRO:HD3	1.88	0.56
1:I:403:GLN:NE2	1:I:403:GLN:N	2.47	0.56
1:J:411:TYR:HB3	1:J:412:PRO:HD3	1.86	0.56
2:j:1046:TYR:CE2	2:j:1131:ILE:HG12	2.40	0.56
1:K:636:ARG:HA	1:K:639:LEU:HD23	1.86	0.56
2:k:1153:GLY:O	2:k:1156:PRO:HD2	2.06	0.56
2:l:1173:VAL:HB	2:l:1190:ALA:HA	1.86	0.56
2:m:1085:PHE:HA	2:m:1089:ALA:HA	1.86	0.56
2:o:1046:TYR:CE2	2:o:1131:ILE:HG12	2.40	0.56
2:o:1056:ALA:HA	2:o:1114:PRO:CB	2.31	0.56
2:o:1155:VAL:HB	2:o:1156:PRO:HD3	1.88	0.56
1:A:403:GLN:NE2	1:A:403:GLN:N	2.47	0.56
1:B:633:LYS:O	1:B:636:ARG:HG2	2.05	0.56
1:C:326:ASN:O	1:C:327:SER:HB2	2.05	0.56
2:c:1046:TYR:CE2	2:c:1131:ILE:HG12	2.40	0.56
1:D:633:LYS:O	1:D:636:ARG:HG2	2.05	0.56
1:E:365:ARG:CZ	1:E:418:PRO:HG3	2.35	0.56
2:f:1155:VAL:HB	2:f:1156:PRO:HD3	1.88	0.56
1:G:316:ILE:HD13	1:H:496:LYS:HD3	1.87	0.56
1:G:477:TRP:HB3	1:G:481:LEU:HD12	1.88	0.56
2:g:1085:PHE:HA	2:g:1089:ALA:HA	1.86	0.56
1:I:477:TRP:HB3	1:I:481:LEU:HD12	1.87	0.56
1:K:184:PRO:HD2	1:K:187:LEU:HD12	1.87	0.56
1:K:365:ARG:CZ	1:K:418:PRO:HG3	2.35	0.56
2:k:1173:VAL:HB	2:k:1190:ALA:HA	1.86	0.56
1:O:412:PRO:O	1:O:413:SER:C	2.47	0.56
2:o:1173:VAL:HB	2:o:1190:ALA:HA	1.86	0.56
2:c:1085:PHE:HA	2:c:1089:ALA:HA	1.86	0.56
1:E:224:GLU:OE2	1:F:201:THR:CG2	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:1127:ALA:O	2:f:1131:ILE:HG13	2.05	0.56
1:G:316:ILE:CD1	1:H:496:LYS:CG	2.84	0.56
1:G:468:ARG:HH11	1:M:480:VAL:HG11	1.71	0.56
1:G:633:LYS:O	1:G:636:ARG:HG2	2.05	0.56
2:i:1046:TYR:CE2	2:i:1131:ILE:HG12	2.40	0.56
2:i:1161:LYS:O	2:i:1165:ILE:HG13	2.04	0.56
2:j:1047:PHE:CE1	2:j:1080:LEU:HD22	2.38	0.56
2:j:1056:ALA:CA	2:j:1114:PRO:HB2	2.33	0.56
2:l:1047:PHE:CE1	2:l:1080:LEU:HD22	2.38	0.56
2:l:1194:GLU:C	2:l:1196:VAL:H	2.12	0.56
1:M:364:ILE:HD12	1:M:364:ILE:O	2.06	0.56
1:O:481:LEU:H	1:O:482:PRO:HD2	1.70	0.56
2:o:1127:ALA:O	2:o:1131:ILE:HG13	2.05	0.56
2:a:1047:PHE:CE1	2:a:1080:LEU:HD22	2.38	0.56
2:a:1161:LYS:O	2:a:1165:ILE:HG13	2.04	0.56
1:B:365:ARG:CZ	1:B:418:PRO:HG3	2.35	0.56
1:C:314:PHE:CZ	1:O:672:GLY:HA2	2.41	0.56
2:c:1127:ALA:O	2:c:1131:ILE:HG13	2.05	0.56
2:c:1194:GLU:C	2:c:1196:VAL:H	2.12	0.56
1:D:364:ILE:HD12	1:D:364:ILE:O	2.06	0.56
1:D:636:ARG:HA	1:D:639:LEU:HD23	1.86	0.56
1:E:184:PRO:HD2	1:E:187:LEU:HD12	1.87	0.56
1:E:326:ASN:O	1:E:327:SER:HB2	2.05	0.56
2:f:1153:GLY:O	2:f:1156:PRO:HD2	2.06	0.56
1:H:633:LYS:O	1:H:636:ARG:HG2	2.05	0.56
2:h:1153:GLY:O	2:h:1156:PRO:HD2	2.06	0.56
2:j:1173:VAL:HB	2:j:1190:ALA:HA	1.86	0.56
2:m:1056:ALA:HA	2:m:1114:PRO:CB	2.31	0.56
2:m:1127:ALA:O	2:m:1131:ILE:HG13	2.05	0.56
1:A:481:LEU:H	1:A:482:PRO:HD2	1.70	0.56
1:A:725:LEU:HD23	1:A:725:LEU:C	2.31	0.56
1:C:481:LEU:H	1:C:482:PRO:HD2	1.70	0.56
1:C:708:ILE:HD13	1:C:709:ASN:OD1	2.06	0.56
2:c:1047:PHE:CE1	2:c:1080:LEU:HD22	2.38	0.56
2:d:1153:GLY:O	2:d:1156:PRO:HD2	2.06	0.56
1:E:481:LEU:H	1:E:482:PRO:HD2	1.70	0.56
1:E:633:LYS:O	1:E:636:ARG:HG2	2.05	0.56
1:G:468:ARG:HH22	1:M:232:PRO:CA	2.17	0.56
1:I:481:LEU:H	1:I:482:PRO:HD2	1.70	0.56
1:J:364:ILE:HD12	1:J:364:ILE:O	2.06	0.56
1:J:481:LEU:H	1:J:482:PRO:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:364:ILE:HD12	1:K:364:ILE:O	2.06	0.56
1:L:411:TYR:HB3	1:L:412:PRO:HD3	1.87	0.56
2:l:1153:GLY:O	2:l:1156:PRO:HD2	2.06	0.56
1:M:633:LYS:O	1:M:636:ARG:HG2	2.05	0.56
1:M:725:LEU:HD23	1:M:725:LEU:C	2.31	0.56
1:D:521:MET:HE2	1:D:525:GLU:HB3	1.88	0.55
1:E:615:ALA:HB2	1:E:635:ILE:HG13	1.87	0.55
1:G:725:LEU:HD23	1:G:725:LEU:C	2.31	0.55
2:h:1040:ARG:O	2:h:1217:SER:HA	2.07	0.55
1:J:184:PRO:HD2	1:J:187:LEU:HD12	1.87	0.55
1:K:269:ILE:HG22	1:K:362:ALA:HB2	1.89	0.55
1:M:477:TRP:HB3	1:M:481:LEU:HD12	1.88	0.55
1:O:364:ILE:HD12	1:O:364:ILE:O	2.06	0.55
1:O:615:ALA:HB2	1:O:635:ILE:HG13	1.87	0.55
1:A:633:LYS:O	1:A:636:ARG:HG2	2.05	0.55
1:D:199:LYS:O	1:O:517:THR:HG23	2.06	0.55
2:h:1194:GLU:C	2:h:1196:VAL:H	2.12	0.55
1:I:343:GLU:HA	2:i:1154:LEU:HD12	1.88	0.55
1:I:365:ARG:CZ	1:I:418:PRO:HG3	2.35	0.55
1:J:243:ILE:CG1	1:J:244:ASP:N	2.64	0.55
1:J:343:GLU:HA	2:j:1154:LEU:HD12	1.89	0.55
1:J:479:GLU:HG2	1:K:471:VAL:CG2	2.36	0.55
2:j:1153:GLY:O	2:j:1156:PRO:HD2	2.06	0.55
1:K:343:GLU:HA	2:k:1154:LEU:HD12	1.89	0.55
1:K:708:ILE:HD12	1:K:709:ASN:N	2.21	0.55
1:L:365:ARG:CZ	1:L:418:PRO:HG3	2.35	0.55
1:L:481:LEU:H	1:L:482:PRO:HD2	1.71	0.55
2:l:1056:ALA:CA	2:l:1114:PRO:HB2	2.33	0.55
2:l:1155:VAL:HB	2:l:1156:PRO:HD3	1.88	0.55
1:O:365:ARG:CZ	1:O:418:PRO:HG3	2.35	0.55
1:C:521:MET:HE2	1:C:525:GLU:HB3	1.88	0.55
1:D:477:TRP:HB3	1:D:481:LEU:HD12	1.87	0.55
1:D:481:LEU:H	1:D:482:PRO:HD2	1.70	0.55
1:F:521:MET:HE2	1:F:525:GLU:HB3	1.88	0.55
1:I:708:ILE:HD13	1:I:709:ASN:OD1	2.07	0.55
1:I:725:LEU:HD23	1:I:725:LEU:C	2.31	0.55
2:i:1153:GLY:O	2:i:1156:PRO:HD2	2.06	0.55
1:J:708:ILE:HD13	1:J:709:ASN:OD1	2.06	0.55
1:J:725:LEU:HD23	1:J:725:LEU:C	2.31	0.55
1:K:524:LYS:CD	1:K:579:ASP:HB3	2.36	0.55
1:K:615:ALA:HB2	1:K:635:ILE:HG13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:184:PRO:HD2	1:L:187:LEU:HD12	1.87	0.55
1:L:316:ILE:CD1	1:M:496:LYS:CD	2.76	0.55
1:L:708:ILE:HD12	1:L:709:ASN:N	2.21	0.55
1:M:343:GLU:HA	2:m:1154:LEU:HD12	1.89	0.55
1:O:343:GLU:HA	2:o:1154:LEU:HD12	1.88	0.55
1:O:521:MET:HE2	1:O:525:GLU:HB3	1.88	0.55
2:a:1155:VAL:HB	2:a:1156:PRO:HD3	1.88	0.55
1:B:196:VAL:HA	1:B:200:ARG:O	2.07	0.55
2:b:1153:GLY:O	2:b:1156:PRO:HD2	2.06	0.55
1:D:708:ILE:HD12	1:D:709:ASN:N	2.21	0.55
2:d:1155:VAL:HB	2:d:1156:PRO:HD3	1.88	0.55
1:E:401:LEU:C	1:E:401:LEU:HD12	2.32	0.55
1:E:708:ILE:HD12	1:E:709:ASN:N	2.21	0.55
1:F:464:PHE:N	1:F:464:PHE:CD2	2.75	0.55
1:F:481:LEU:H	1:F:482:PRO:HD2	1.70	0.55
1:F:725:LEU:HD23	1:F:725:LEU:C	2.31	0.55
1:G:189:VAL:HG13	1:H:199:LYS:CG	2.37	0.55
1:H:481:LEU:H	1:H:482:PRO:HD2	1.71	0.55
1:J:326:ASN:O	1:J:327:SER:HB2	2.05	0.55
1:J:464:PHE:CD2	1:J:464:PHE:N	2.75	0.55
1:K:401:LEU:C	1:K:401:LEU:HD12	2.32	0.55
1:K:725:LEU:C	1:K:725:LEU:HD23	2.31	0.55
1:L:401:LEU:C	1:L:401:LEU:HD12	2.32	0.55
2:l:1056:ALA:HA	2:l:1114:PRO:CB	2.31	0.55
1:M:401:LEU:C	1:M:401:LEU:HD12	2.32	0.55
1:O:196:VAL:HA	1:O:200:ARG:O	2.07	0.55
1:O:477:TRP:HB3	1:O:481:LEU:HD12	1.88	0.55
1:B:401:LEU:C	1:B:401:LEU:HD12	2.32	0.55
2:b:1127:ALA:O	2:b:1131:ILE:HG13	2.05	0.55
2:e:1084:VAL:HG22	2:e:1092:ILE:HD11	1.89	0.55
1:G:364:ILE:HD12	1:G:364:ILE:O	2.06	0.55
1:G:464:PHE:CD2	1:G:464:PHE:N	2.75	0.55
1:H:521:MET:HE2	1:H:525:GLU:HB3	1.88	0.55
1:H:725:LEU:C	1:H:725:LEU:HD23	2.31	0.55
1:J:365:ARG:CZ	1:J:418:PRO:HG3	2.35	0.55
1:K:708:ILE:HD13	1:K:709:ASN:OD1	2.07	0.55
1:L:364:ILE:HD12	1:L:364:ILE:O	2.06	0.55
1:M:260:PRO:HD3	1:M:477:TRP:CZ3	2.42	0.55
2:m:1040:ARG:O	2:m:1217:SER:HA	2.07	0.55
2:o:1194:GLU:C	2:o:1196:VAL:H	2.12	0.55
1:A:306:ASN:HA	1:B:669:ARG:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1074:VAL:O	2:a:1074:VAL:HG12	2.07	0.55
1:B:260:PRO:HD3	1:B:477:TRP:CZ3	2.42	0.55
1:B:325:SER:OG	1:C:415:ASN:ND2	2.40	0.55
2:b:1155:VAL:HB	2:b:1156:PRO:HD3	1.88	0.55
2:b:1194:GLU:C	2:b:1196:VAL:H	2.12	0.55
1:C:364:ILE:HD12	1:C:364:ILE:O	2.06	0.55
1:C:403:GLN:HE21	1:C:403:GLN:N	1.99	0.55
1:C:464:PHE:N	1:C:464:PHE:CD2	2.75	0.55
1:C:615:ALA:HB2	1:C:635:ILE:HG13	1.87	0.55
1:C:708:ILE:HD12	1:C:709:ASN:N	2.22	0.55
1:D:708:ILE:HD13	1:D:709:ASN:OD1	2.06	0.55
1:F:260:PRO:HD3	1:F:477:TRP:CZ3	2.42	0.55
1:F:326:ASN:O	1:F:327:SER:HB2	2.06	0.55
1:F:708:ILE:HD12	1:F:709:ASN:N	2.21	0.55
2:f:1040:ARG:O	2:f:1217:SER:HA	2.07	0.55
1:G:260:PRO:HD3	1:G:477:TRP:CZ3	2.42	0.55
1:G:521:MET:HE2	1:G:525:GLU:HB3	1.88	0.55
1:G:708:ILE:HD12	1:G:709:ASN:N	2.21	0.55
1:G:708:ILE:HD13	1:G:709:ASN:OD1	2.06	0.55
2:g:1040:ARG:O	2:g:1217:SER:HA	2.07	0.55
1:J:615:ALA:HB2	1:J:635:ILE:HG13	1.87	0.55
1:K:481:LEU:H	1:K:482:PRO:HD2	1.70	0.55
1:L:708:ILE:HD13	1:L:709:ASN:OD1	2.07	0.55
1:L:725:LEU:HD23	1:L:725:LEU:C	2.31	0.55
2:m:1074:VAL:O	2:m:1074:VAL:HG12	2.07	0.55
1:O:524:LYS:CD	1:O:579:ASP:HB3	2.36	0.55
1:O:708:ILE:HD12	1:O:709:ASN:N	2.21	0.55
2:o:1040:ARG:O	2:o:1217:SER:HA	2.07	0.55
1:B:326:ASN:O	1:B:327:SER:HB2	2.06	0.55
1:B:521:MET:HE2	1:B:525:GLU:HB3	1.88	0.55
1:D:184:PRO:O	1:D:185:ASP:C	2.50	0.55
1:E:403:GLN:NE2	1:E:403:GLN:N	2.47	0.55
1:E:708:ILE:HD13	1:E:709:ASN:OD1	2.07	0.55
1:G:196:VAL:HA	1:G:200:ARG:O	2.07	0.55
1:H:364:ILE:HD12	1:H:364:ILE:O	2.06	0.55
1:H:403:GLN:HE21	1:H:403:GLN:N	1.99	0.55
1:I:521:MET:HE2	1:I:525:GLU:HB3	1.88	0.55
1:I:708:ILE:HD12	1:I:709:ASN:N	2.21	0.55
1:J:196:VAL:HA	1:J:200:ARG:O	2.07	0.55
1:J:269:ILE:HG22	1:J:362:ALA:HB2	1.89	0.55
1:J:477:TRP:HB3	1:J:481:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:1056:ALA:CA	2:k:1114:PRO:HB2	2.33	0.55
1:L:343:GLU:HA	2:l:1154:LEU:HD12	1.89	0.55
2:l:1084:VAL:HG22	2:l:1092:ILE:HD11	1.89	0.55
1:O:725:LEU:HD23	1:O:725:LEU:C	2.31	0.55
1:A:200:ARG:HB3	1:F:178:ARG:NH2	2.21	0.55
1:A:305:GLY:CA	1:B:670:GLN:CG	2.78	0.55
1:B:708:ILE:HD12	1:B:709:ASN:N	2.21	0.55
1:C:725:LEU:C	1:C:725:LEU:HD23	2.31	0.55
1:D:269:ILE:HG22	1:D:362:ALA:HB2	1.88	0.55
1:D:725:LEU:HD23	1:D:725:LEU:C	2.31	0.55
1:F:364:ILE:HD12	1:F:364:ILE:O	2.06	0.55
1:G:269:ILE:HG22	1:G:362:ALA:HB2	1.89	0.55
1:I:196:VAL:HA	1:I:200:ARG:O	2.07	0.55
1:I:260:PRO:HD3	1:I:477:TRP:CZ3	2.42	0.55
2:i:1155:VAL:HB	2:i:1156:PRO:HD3	1.88	0.55
1:K:477:TRP:HB3	1:K:481:LEU:HD12	1.88	0.55
1:L:260:PRO:HD3	1:L:477:TRP:CZ3	2.42	0.55
1:L:269:ILE:HG22	1:L:362:ALA:HB2	1.89	0.55
1:M:481:LEU:H	1:M:482:PRO:HD2	1.71	0.55
1:O:260:PRO:HD3	1:O:477:TRP:CZ3	2.42	0.55
1:O:708:ILE:HD13	1:O:709:ASN:OD1	2.07	0.55
1:A:306:ASN:N	1:B:670:GLN:HG3	2.21	0.55
1:A:318:GLY:HA2	1:B:410:TYR:CE1	2.42	0.55
1:A:708:ILE:HD13	1:A:709:ASN:OD1	2.06	0.55
1:B:184:PRO:O	1:B:185:ASP:C	2.50	0.55
1:B:725:LEU:HD23	1:B:725:LEU:C	2.31	0.55
1:C:603:ILE:O	1:C:605:VAL:HG23	2.07	0.55
1:E:260:PRO:HD3	1:E:477:TRP:CZ3	2.42	0.55
1:G:401:LEU:HD12	1:G:401:LEU:C	2.32	0.55
1:H:260:PRO:HD3	1:H:477:TRP:CZ3	2.42	0.55
1:H:480:VAL:CG2	1:I:468:ARG:CG	2.85	0.55
1:H:708:ILE:HD13	1:H:709:ASN:OD1	2.07	0.55
1:I:364:ILE:HD12	1:I:364:ILE:O	2.06	0.55
2:j:1074:VAL:O	2:j:1074:VAL:HG12	2.07	0.55
1:K:184:PRO:O	1:K:185:ASP:C	2.50	0.55
1:K:196:VAL:HA	1:K:200:ARG:O	2.07	0.55
1:K:464:PHE:N	1:K:464:PHE:CD2	2.75	0.55
2:k:1040:ARG:O	2:k:1217:SER:HA	2.07	0.55
1:L:196:VAL:HA	1:L:200:ARG:O	2.07	0.55
1:M:521:MET:HE2	1:M:525:GLU:HB3	1.88	0.55
1:M:708:ILE:HD12	1:M:709:ASN:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:708:ILE:HD13	1:M:709:ASN:OD1	2.07	0.55
1:B:708:ILE:HD13	1:B:709:ASN:OD1	2.07	0.55
1:C:196:VAL:HA	1:C:200:ARG:O	2.07	0.55
1:C:477:TRP:HB3	1:C:481:LEU:HD12	1.87	0.55
2:c:1040:ARG:O	2:c:1217:SER:HA	2.07	0.55
1:D:196:VAL:HA	1:D:200:ARG:O	2.07	0.55
1:E:269:ILE:HG22	1:E:362:ALA:HB2	1.89	0.55
1:G:184:PRO:O	1:G:185:ASP:C	2.50	0.55
2:g:1074:VAL:O	2:g:1074:VAL:HG12	2.07	0.55
1:H:196:VAL:HA	1:H:200:ARG:O	2.07	0.55
2:h:1155:VAL:HB	2:h:1156:PRO:HD3	1.88	0.55
2:i:1056:ALA:HA	2:i:1114:PRO:CB	2.31	0.55
1:J:260:PRO:HD3	1:J:477:TRP:CZ3	2.42	0.55
1:J:521:MET:HE2	1:J:525:GLU:HB3	1.88	0.55
1:J:708:ILE:HD12	1:J:709:ASN:N	2.21	0.55
1:K:260:PRO:HD3	1:K:477:TRP:CZ3	2.42	0.55
1:K:603:ILE:O	1:K:605:VAL:HG23	2.07	0.55
1:L:477:TRP:HB3	1:L:481:LEU:HD12	1.87	0.55
1:L:603:ILE:O	1:L:605:VAL:HG23	2.07	0.55
1:M:184:PRO:O	1:M:185:ASP:C	2.50	0.55
2:m:1101:LYS:O	2:m:1104:LYS:HB3	2.07	0.55
1:O:401:LEU:HD12	1:O:401:LEU:C	2.32	0.55
2:o:1074:VAL:O	2:o:1074:VAL:HG12	2.07	0.55
1:A:260:PRO:HD3	1:A:477:TRP:CZ3	2.42	0.54
1:B:364:ILE:HD12	1:B:364:ILE:O	2.06	0.54
1:B:464:PHE:CD2	1:B:464:PHE:N	2.75	0.54
1:B:481:LEU:H	1:B:482:PRO:HD2	1.71	0.54
2:b:1084:VAL:HG22	2:b:1092:ILE:HD11	1.89	0.54
1:C:269:ILE:HG22	1:C:362:ALA:HB2	1.89	0.54
1:C:401:LEU:C	1:C:401:LEU:HD12	2.32	0.54
2:c:1074:VAL:O	2:c:1074:VAL:HG12	2.07	0.54
1:D:464:PHE:N	1:D:464:PHE:CD2	2.75	0.54
2:d:1074:VAL:HG12	2:d:1074:VAL:O	2.07	0.54
1:E:184:PRO:O	1:E:185:ASP:C	2.50	0.54
1:E:364:ILE:HD12	1:E:364:ILE:O	2.06	0.54
1:F:401:LEU:C	1:F:401:LEU:HD12	2.32	0.54
2:f:1084:VAL:HG22	2:f:1092:ILE:HD11	1.89	0.54
2:f:1101:LYS:O	2:f:1104:LYS:HB3	2.07	0.54
1:I:403:GLN:HE21	1:I:403:GLN:N	1.99	0.54
2:i:1084:VAL:HG22	2:i:1092:ILE:HD11	1.89	0.54
1:J:524:LYS:CD	1:J:579:ASP:HB3	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:GLN:HE21	1:L:403:GLN:N	1.99	0.54
2:m:1084:VAL:HG22	2:m:1092:ILE:HD11	1.89	0.54
1:A:401:LEU:C	1:A:401:LEU:HD12	2.32	0.54
1:A:708:ILE:HD12	1:A:709:ASN:N	2.21	0.54
2:a:1084:VAL:HG22	2:a:1092:ILE:HD11	1.89	0.54
2:a:1101:LYS:O	2:a:1104:LYS:HB3	2.08	0.54
1:B:483:GLN:NE2	1:C:469:VAL:HG21	2.22	0.54
1:B:603:ILE:O	1:B:605:VAL:HG23	2.07	0.54
2:b:1101:LYS:O	2:b:1104:LYS:HB3	2.08	0.54
1:E:196:VAL:HA	1:E:200:ARG:O	2.07	0.54
1:F:196:VAL:HA	1:F:200:ARG:O	2.07	0.54
1:G:603:ILE:O	1:G:605:VAL:HG23	2.07	0.54
2:g:1062:ILE:HG23	2:g:1146:LEU:HG	1.90	0.54
2:g:1084:VAL:HG22	2:g:1092:ILE:HD11	1.89	0.54
1:H:524:LYS:CD	1:H:579:ASP:HB3	2.36	0.54
1:I:189:VAL:HG13	1:J:199:LYS:HG3	1.89	0.54
1:I:269:ILE:HG22	1:I:362:ALA:HB2	1.89	0.54
2:i:1062:ILE:HG23	2:i:1146:LEU:HG	1.90	0.54
2:k:1074:VAL:O	2:k:1074:VAL:HG12	2.07	0.54
1:L:464:PHE:N	1:L:464:PHE:CD2	2.75	0.54
2:l:1074:VAL:HG12	2:l:1074:VAL:O	2.07	0.54
1:O:269:ILE:HG22	1:O:362:ALA:HB2	1.89	0.54
1:O:603:ILE:O	1:O:605:VAL:HG23	2.07	0.54
2:o:1084:VAL:HG22	2:o:1092:ILE:HD11	1.89	0.54
1:A:184:PRO:O	1:A:185:ASP:C	2.50	0.54
1:B:403:GLN:HE21	1:B:403:GLN:N	1.99	0.54
1:B:512:ASP:CG	1:B:515:GLU:HB2	2.33	0.54
1:B:576:THR:C	1:B:578:LEU:H	2.16	0.54
1:C:262:VAL:CG1	1:C:379:PRO:HG2	2.38	0.54
1:C:576:THR:C	1:C:578:LEU:H	2.16	0.54
2:c:1101:LYS:O	2:c:1104:LYS:HB3	2.08	0.54
1:D:603:ILE:O	1:D:605:VAL:HG23	2.07	0.54
2:d:1062:ILE:HG23	2:d:1146:LEU:HG	1.90	0.54
1:E:576:THR:C	1:E:578:LEU:H	2.16	0.54
2:g:1101:LYS:O	2:g:1104:LYS:HB3	2.08	0.54
1:H:262:VAL:CG1	1:H:379:PRO:HG2	2.38	0.54
1:H:464:PHE:CD2	1:H:464:PHE:N	2.75	0.54
1:H:708:ILE:HD12	1:H:709:ASN:N	2.21	0.54
2:h:1056:ALA:HA	2:h:1114:PRO:CB	2.31	0.54
1:I:319:SER:H	1:J:414:LYS:HE3	1.72	0.54
2:j:1155:VAL:HB	2:j:1156:PRO:HD3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:1155:VAL:HB	2:k:1156:PRO:HD3	1.88	0.54
1:L:319:SER:OG	1:M:414:LYS:HE3	2.07	0.54
1:O:184:PRO:O	1:O:185:ASP:C	2.50	0.54
1:A:201:THR:CG2	1:F:224:GLU:OE2	2.55	0.54
1:B:262:VAL:CG1	1:B:379:PRO:HG2	2.38	0.54
2:b:1040:ARG:O	2:b:1217:SER:HA	2.07	0.54
2:b:1074:VAL:O	2:b:1074:VAL:HG12	2.07	0.54
1:C:260:PRO:HD3	1:C:477:TRP:CZ3	2.42	0.54
2:c:1084:VAL:HG22	2:c:1092:ILE:HD11	1.89	0.54
1:D:260:PRO:HD3	1:D:477:TRP:CZ3	2.42	0.54
1:E:512:ASP:CG	1:E:515:GLU:HB2	2.33	0.54
1:E:725:LEU:HD23	1:E:725:LEU:C	2.31	0.54
2:f:1065:PHE:CE2	2:f:1176:VAL:HG21	2.43	0.54
1:G:415:ASN:HB3	1:M:321:SER:CB	2.38	0.54
2:i:1040:ARG:O	2:i:1217:SER:HA	2.07	0.54
1:J:319:SER:HA	1:K:414:LYS:CB	2.37	0.54
1:K:318:GLY:HA2	1:L:410:TYR:CE1	2.43	0.54
2:l:1065:PHE:CE2	2:l:1176:VAL:HG21	2.43	0.54
1:M:512:ASP:CG	1:M:515:GLU:HB2	2.33	0.54
2:m:1065:PHE:CE2	2:m:1176:VAL:HG21	2.43	0.54
1:O:464:PHE:CD2	1:O:464:PHE:N	2.74	0.54
2:o:1065:PHE:CE2	2:o:1176:VAL:HG21	2.43	0.54
1:A:269:ILE:HG22	1:A:362:ALA:HB2	1.88	0.54
1:A:512:ASP:CG	1:A:515:GLU:HB2	2.33	0.54
1:A:521:MET:HE2	1:A:525:GLU:HB3	1.88	0.54
1:A:576:THR:C	1:A:578:LEU:H	2.16	0.54
1:A:603:ILE:O	1:A:605:VAL:HG23	2.07	0.54
1:B:269:ILE:HG22	1:B:362:ALA:HB2	1.88	0.54
1:B:343:GLU:HA	2:b:1154:LEU:HD12	1.89	0.54
1:C:524:LYS:CD	1:C:579:ASP:HB3	2.36	0.54
1:D:401:LEU:C	1:D:401:LEU:HD12	2.32	0.54
2:d:1040:ARG:HH21	2:d:1216:GLN:HB3	1.73	0.54
2:d:1065:PHE:CE2	2:d:1176:VAL:HG21	2.43	0.54
1:E:521:MET:HE2	1:E:525:GLU:HB3	1.88	0.54
1:F:262:VAL:CG1	1:F:379:PRO:HG2	2.38	0.54
1:F:343:GLU:HA	2:f:1154:LEU:HD12	1.88	0.54
1:F:708:ILE:HD13	1:F:709:ASN:OD1	2.07	0.54
1:G:512:ASP:CG	1:G:515:GLU:HB2	2.33	0.54
2:g:1065:PHE:CE2	2:g:1176:VAL:HG21	2.43	0.54
2:h:1074:VAL:O	2:h:1074:VAL:HG12	2.07	0.54
1:I:524:LYS:CD	1:I:579:ASP:HB3	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:512:ASP:CG	1:J:515:GLU:HB2	2.33	0.54
2:j:1040:ARG:O	2:j:1217:SER:HA	2.07	0.54
1:L:576:THR:C	1:L:578:LEU:H	2.16	0.54
2:l:1040:ARG:O	2:l:1217:SER:HA	2.07	0.54
2:m:1064:ASN:HB3	2:m:1068:GLN:HE21	1.73	0.54
1:A:262:VAL:CG1	1:A:379:PRO:HG2	2.38	0.54
2:a:1062:ILE:HG23	2:a:1146:LEU:HG	1.89	0.54
2:b:1062:ILE:HG23	2:b:1146:LEU:HG	1.89	0.54
1:C:178:ARG:CZ	1:O:200:ARG:CB	2.74	0.54
1:C:343:GLU:HA	2:c:1154:LEU:HD12	1.89	0.54
2:c:1155:VAL:HB	2:c:1156:PRO:HD3	1.88	0.54
1:D:512:ASP:CG	1:D:515:GLU:HB2	2.33	0.54
1:E:343:GLU:HA	2:e:1154:LEU:HD12	1.89	0.54
1:E:603:ILE:O	1:E:605:VAL:HG23	2.07	0.54
2:e:1040:ARG:O	2:e:1217:SER:HA	2.07	0.54
1:F:576:THR:C	1:F:578:LEU:H	2.16	0.54
2:f:1062:ILE:HG23	2:f:1146:LEU:HG	1.90	0.54
1:I:184:PRO:O	1:I:185:ASP:C	2.50	0.54
1:I:401:LEU:C	1:I:401:LEU:HD12	2.32	0.54
2:i:1064:ASN:HB3	2:i:1068:GLN:HE21	1.73	0.54
1:K:521:MET:HE2	1:K:525:GLU:HB3	1.88	0.54
1:M:464:PHE:CD2	1:M:464:PHE:N	2.75	0.54
1:A:196:VAL:HA	1:A:200:ARG:O	2.07	0.54
1:A:343:GLU:HA	2:a:1154:LEU:HD12	1.89	0.54
1:C:184:PRO:O	1:C:185:ASP:C	2.50	0.54
1:D:224:GLU:OE2	1:E:201:THR:HG23	2.08	0.54
1:D:524:LYS:CD	1:D:579:ASP:HB3	2.36	0.54
2:e:1065:PHE:CE2	2:e:1176:VAL:HG21	2.43	0.54
1:G:316:ILE:CD1	1:H:496:LYS:CD	2.82	0.54
1:H:317:GLY:HA3	1:I:408:ASN:O	2.08	0.54
1:H:343:GLU:HA	2:h:1154:LEU:HD12	1.89	0.54
1:I:262:VAL:CG1	1:I:379:PRO:HG2	2.38	0.54
1:I:464:PHE:N	1:I:464:PHE:CD2	2.75	0.54
1:I:576:THR:C	1:I:578:LEU:H	2.16	0.54
1:J:184:PRO:O	1:J:185:ASP:C	2.50	0.54
1:J:217:THR:HG22	1:J:218:LYS:N	2.23	0.54
1:J:401:LEU:C	1:J:401:LEU:HD12	2.32	0.54
2:k:1084:VAL:HG22	2:k:1092:ILE:HD11	1.89	0.54
1:L:521:MET:HE2	1:L:525:GLU:HB3	1.88	0.54
1:M:196:VAL:HA	1:M:200:ARG:O	2.07	0.54
2:a:1065:PHE:CE2	2:a:1176:VAL:HG21	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:GLN:NE2	1:B:403:GLN:N	2.47	0.54
1:C:217:THR:HG22	1:C:218:LYS:N	2.23	0.54
2:d:1040:ARG:O	2:d:1217:SER:HA	2.07	0.54
1:H:269:ILE:HG22	1:H:362:ALA:HB2	1.89	0.54
2:h:1101:LYS:O	2:h:1104:LYS:HB3	2.08	0.54
2:j:1062:ILE:HG23	2:j:1146:LEU:HG	1.89	0.54
1:K:189:VAL:HG13	1:L:199:LYS:HG3	1.90	0.54
1:K:403:GLN:NE2	1:K:403:GLN:N	2.47	0.54
1:L:184:PRO:O	1:L:185:ASP:C	2.50	0.54
1:O:645:GLU:HB2	1:O:654:GLU:O	2.08	0.54
1:A:410:TYR:CD2	1:A:414:LYS:HE2	2.43	0.54
2:a:1040:ARG:O	2:a:1217:SER:HA	2.07	0.54
1:C:512:ASP:CG	1:C:515:GLU:HB2	2.33	0.54
2:d:1084:VAL:HG22	2:d:1092:ILE:HD11	1.89	0.54
1:E:336:HIS:CG	1:E:708:ILE:HG22	2.43	0.54
2:e:1101:LYS:O	2:e:1104:LYS:HB3	2.08	0.54
1:F:603:ILE:O	1:F:605:VAL:HG23	2.08	0.54
2:h:1064:ASN:HB3	2:h:1068:GLN:HE21	1.73	0.54
1:I:217:THR:HG22	1:I:218:LYS:N	2.23	0.54
2:i:1056:ALA:CA	2:i:1114:PRO:HB2	2.33	0.54
1:J:410:TYR:CD2	1:J:414:LYS:HE2	2.43	0.54
1:K:512:ASP:CG	1:K:515:GLU:HB2	2.33	0.54
2:k:1101:LYS:O	2:k:1104:LYS:HB3	2.07	0.54
1:M:576:THR:C	1:M:578:LEU:H	2.16	0.54
1:O:512:ASP:CG	1:O:515:GLU:HB2	2.33	0.54
1:A:364:ILE:HD12	1:A:364:ILE:O	2.06	0.54
1:A:513:PRO:HG2	1:B:239:VAL:O	2.07	0.54
1:A:645:GLU:HB2	1:A:654:GLU:O	2.08	0.54
1:B:517:THR:HG23	1:C:199:LYS:O	2.09	0.54
1:C:270:ILE:HG23	1:C:361:ASN:HB3	1.90	0.54
1:D:217:THR:HG22	1:D:218:LYS:N	2.23	0.54
1:D:262:VAL:CG1	1:D:379:PRO:HG2	2.38	0.54
2:d:1101:LYS:O	2:d:1104:LYS:HB3	2.08	0.54
1:E:255:LEU:HD22	1:E:506:ALA:HB3	1.90	0.54
1:E:262:VAL:CG1	1:E:379:PRO:HG2	2.38	0.54
1:E:464:PHE:CD2	1:E:464:PHE:N	2.74	0.54
1:E:645:GLU:HB2	1:E:654:GLU:O	2.08	0.54
1:F:336:HIS:CG	1:F:708:ILE:HG22	2.43	0.54
1:F:512:ASP:CG	1:F:515:GLU:HB2	2.33	0.54
1:F:645:GLU:HB2	1:F:654:GLU:O	2.08	0.54
2:f:1074:VAL:O	2:f:1074:VAL:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:217:THR:HG22	1:H:218:LYS:N	2.23	0.54
1:H:232:PRO:HA	1:I:468:ARG:HH22	1.72	0.54
1:I:515:GLU:OE1	1:J:245:LYS:HE2	2.08	0.54
2:j:1040:ARG:HH21	2:j:1216:GLN:HB3	1.73	0.54
2:j:1065:PHE:CE2	2:j:1176:VAL:HG21	2.43	0.54
2:j:1084:VAL:HG22	2:j:1092:ILE:HD11	1.89	0.54
1:K:262:VAL:CG1	1:K:379:PRO:HG2	2.38	0.54
2:k:1065:PHE:CE2	2:k:1176:VAL:HG21	2.43	0.54
1:L:255:LEU:HD22	1:L:506:ALA:HB3	1.90	0.54
1:M:269:ILE:HG22	1:M:362:ALA:HB2	1.89	0.54
1:M:270:ILE:HG23	1:M:361:ASN:HB3	1.90	0.54
1:O:262:VAL:CG1	1:O:379:PRO:HG2	2.38	0.54
1:C:483:GLN:NE2	1:O:245:LYS:HB2	2.23	0.53
1:D:343:GLU:HA	2:d:1154:LEU:HD12	1.89	0.53
2:d:1064:ASN:HB3	2:d:1068:GLN:HE21	1.73	0.53
1:E:410:TYR:CD2	1:E:414:LYS:HE2	2.43	0.53
1:I:270:ILE:HG23	1:I:361:ASN:HB3	1.90	0.53
1:I:484:ILE:H	1:I:484:ILE:CD1	2.22	0.53
1:I:512:ASP:CG	1:I:515:GLU:HB2	2.33	0.53
1:K:410:TYR:CD2	1:K:414:LYS:HE2	2.43	0.53
1:L:336:HIS:CG	1:L:708:ILE:HG22	2.43	0.53
1:M:410:TYR:CD2	1:M:414:LYS:HE2	2.43	0.53
1:M:603:ILE:O	1:M:605:VAL:HG23	2.07	0.53
1:O:270:ILE:HG23	1:O:361:ASN:HB3	1.90	0.53
1:A:217:THR:HG22	1:A:218:LYS:N	2.23	0.53
2:a:1064:ASN:HB3	2:a:1068:GLN:HE21	1.73	0.53
1:B:484:ILE:H	1:B:484:ILE:CD1	2.22	0.53
2:b:1064:ASN:HB3	2:b:1068:GLN:HE21	1.73	0.53
1:C:410:TYR:CD2	1:C:414:LYS:HE2	2.43	0.53
2:c:1065:PHE:CE2	2:c:1176:VAL:HG21	2.43	0.53
1:D:410:TYR:CD2	1:D:414:LYS:HE2	2.43	0.53
1:F:184:PRO:O	1:F:185:ASP:C	2.50	0.53
1:F:410:TYR:CD2	1:F:414:LYS:HE2	2.43	0.53
2:f:1064:ASN:HB3	2:f:1068:GLN:HE21	1.73	0.53
1:H:184:PRO:O	1:H:185:ASP:C	2.50	0.53
1:H:200:ARG:N	1:H:200:ARG:CD	2.71	0.53
1:H:410:TYR:CD2	1:H:414:LYS:HE2	2.43	0.53
2:h:1065:PHE:CE2	2:h:1176:VAL:HG21	2.43	0.53
2:h:1084:VAL:HG22	2:h:1092:ILE:HD11	1.89	0.53
1:I:336:HIS:CG	1:I:708:ILE:HG22	2.43	0.53
2:i:1074:VAL:O	2:i:1074:VAL:HG12	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:336:HIS:CG	1:J:708:ILE:HG22	2.43	0.53
1:J:403:GLN:HE21	1:J:403:GLN:N	1.99	0.53
1:J:453:ASP:OD1	1:J:455:VAL:HG12	2.08	0.53
1:J:603:ILE:O	1:J:605:VAL:HG23	2.07	0.53
1:K:222:SER:OG	1:K:517:THR:HG22	2.09	0.53
1:K:453:ASP:OD1	1:K:455:VAL:HG12	2.09	0.53
2:k:1062:ILE:HG23	2:k:1146:LEU:HG	1.90	0.53
1:L:217:THR:HG22	1:L:218:LYS:N	2.23	0.53
1:L:453:ASP:OD1	1:L:455:VAL:HG12	2.09	0.53
1:M:222:SER:OG	1:M:517:THR:HG22	2.09	0.53
1:M:336:HIS:CG	1:M:708:ILE:HG22	2.43	0.53
1:O:217:THR:HG22	1:O:218:LYS:N	2.23	0.53
2:o:1064:ASN:HB3	2:o:1068:GLN:HE21	1.73	0.53
1:A:484:ILE:H	1:A:484:ILE:CD1	2.22	0.53
2:b:1040:ARG:HH21	2:b:1216:GLN:HB3	1.73	0.53
1:D:645:GLU:HB2	1:D:654:GLU:O	2.08	0.53
1:E:295:THR:OG1	1:E:332:VAL:HG12	2.09	0.53
1:F:222:SER:OG	1:F:517:THR:HG22	2.09	0.53
1:G:343:GLU:HA	2:g:1154:LEU:HD12	1.89	0.53
2:g:1040:ARG:HH21	2:g:1216:GLN:HB3	1.72	0.53
2:h:1040:ARG:HH21	2:h:1216:GLN:HB3	1.73	0.53
1:I:410:TYR:CD2	1:I:414:LYS:HE2	2.43	0.53
2:i:1065:PHE:CE2	2:i:1176:VAL:HG21	2.43	0.53
1:L:270:ILE:HG23	1:L:361:ASN:HB3	1.90	0.53
1:L:483:GLN:CD	1:M:469:VAL:HG21	2.33	0.53
1:O:336:HIS:CG	1:O:708:ILE:HG22	2.43	0.53
1:B:217:THR:HG22	1:B:218:LYS:N	2.23	0.53
1:B:270:ILE:HG23	1:B:361:ASN:HB3	1.91	0.53
1:B:368:ASN:HB2	1:B:405:LEU:HG	1.91	0.53
2:b:1065:PHE:CE2	2:b:1176:VAL:HG21	2.43	0.53
1:C:224:GLU:CD	1:O:201:THR:HG23	2.32	0.53
1:C:368:ASN:HB2	1:C:405:LEU:HG	1.91	0.53
2:c:1062:ILE:HG23	2:c:1146:LEU:HG	1.90	0.53
1:E:484:ILE:H	1:E:484:ILE:CD1	2.22	0.53
2:e:1062:ILE:HG23	2:e:1146:LEU:HG	1.90	0.53
1:G:217:THR:HG22	1:G:218:LYS:N	2.23	0.53
2:g:1064:ASN:HB3	2:g:1068:GLN:HE21	1.73	0.53
1:I:295:THR:OG1	1:I:332:VAL:HG12	2.09	0.53
2:j:1101:LYS:O	2:j:1104:LYS:HB3	2.07	0.53
2:k:1064:ASN:HB3	2:k:1068:GLN:HE21	1.73	0.53
1:L:512:ASP:OD1	1:M:245:LYS:HE3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:295:THR:OG1	1:O:332:VAL:HG12	2.09	0.53
2:o:1062:ILE:HG23	2:o:1146:LEU:HG	1.89	0.53
2:o:1073:PHE:CG	2:o:1078:MET:HE2	2.44	0.53
1:A:234:SER:O	1:A:235:ASP:C	2.52	0.53
1:A:255:LEU:HD22	1:A:506:ALA:HB3	1.90	0.53
1:A:453:ASP:OD1	1:A:455:VAL:HG12	2.09	0.53
1:B:453:ASP:OD1	1:B:455:VAL:HG12	2.09	0.53
1:C:453:ASP:OD1	1:C:455:VAL:HG12	2.09	0.53
1:D:336:HIS:CG	1:D:708:ILE:HG22	2.43	0.53
1:D:411:TYR:HD2	1:D:412:PRO:HD3	1.74	0.53
1:E:524:LYS:CD	1:E:579:ASP:HB3	2.36	0.53
2:e:1064:ASN:HB3	2:e:1068:GLN:HE21	1.73	0.53
2:e:1074:VAL:O	2:e:1074:VAL:HG12	2.07	0.53
1:H:295:THR:OG1	1:H:332:VAL:HG12	2.09	0.53
1:I:222:SER:OG	1:I:517:THR:HG22	2.09	0.53
1:M:217:THR:HG22	1:M:218:LYS:N	2.23	0.53
1:A:401:LEU:HD22	1:A:411:TYR:CE1	2.44	0.53
2:c:1073:PHE:CG	2:c:1078:MET:HE2	2.44	0.53
1:D:222:SER:OG	1:D:517:THR:HG22	2.09	0.53
1:E:217:THR:HG22	1:E:218:LYS:N	2.23	0.53
1:E:453:ASP:OD1	1:E:455:VAL:HG12	2.09	0.53
1:F:269:ILE:HG22	1:F:362:ALA:HB2	1.89	0.53
1:F:453:ASP:OD1	1:F:455:VAL:HG12	2.09	0.53
1:H:255:LEU:HD22	1:H:506:ALA:HB3	1.90	0.53
1:H:401:LEU:C	1:H:401:LEU:HD12	2.32	0.53
1:H:480:VAL:CG2	1:I:468:ARG:HD3	2.38	0.53
1:H:512:ASP:CG	1:H:515:GLU:HB2	2.33	0.53
1:H:603:ILE:O	1:H:605:VAL:HG23	2.07	0.53
2:h:1056:ALA:CA	2:h:1114:PRO:HB2	2.33	0.53
2:i:1073:PHE:CG	2:i:1078:MET:HE2	2.44	0.53
1:J:255:LEU:HD22	1:J:506:ALA:HB3	1.90	0.53
1:J:368:ASN:HB2	1:J:405:LEU:HG	1.91	0.53
1:J:576:THR:C	1:J:578:LEU:H	2.16	0.53
1:J:645:GLU:HB2	1:J:654:GLU:O	2.08	0.53
1:K:368:ASN:HB2	1:K:405:LEU:HG	1.91	0.53
2:k:1073:PHE:CG	2:k:1078:MET:HE2	2.44	0.53
1:L:262:VAL:CG1	1:L:379:PRO:HG2	2.38	0.53
1:L:316:ILE:HD12	1:M:496:LYS:HB3	1.91	0.53
1:L:410:TYR:CD2	1:L:414:LYS:HE2	2.43	0.53
2:l:1073:PHE:CG	2:l:1078:MET:HE2	2.44	0.53
2:l:1101:LYS:O	2:l:1104:LYS:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:411:TYR:HD2	1:M:412:PRO:HD3	1.74	0.53
1:M:505:ILE:HD11	1:M:530:ALA:CB	2.39	0.53
1:O:484:ILE:H	1:O:484:ILE:CD1	2.22	0.53
2:o:1101:LYS:O	2:o:1104:LYS:HB3	2.07	0.53
1:A:195:ASP:CG	1:A:196:VAL:H	2.17	0.53
1:A:660:TYR:HE2	1:A:710:PRO:HG3	1.74	0.53
1:B:207:ILE:N	1:B:211:HIS:HD2	2.07	0.53
1:B:645:GLU:HB2	1:B:654:GLU:O	2.08	0.53
1:B:660:TYR:HE2	1:B:710:PRO:HG3	1.74	0.53
1:C:234:SER:O	1:C:235:ASP:C	2.52	0.53
1:C:645:GLU:HB2	1:C:654:GLU:O	2.08	0.53
1:D:270:ILE:HG23	1:D:361:ASN:HB3	1.90	0.53
1:D:660:TYR:HE2	1:D:710:PRO:HG3	1.74	0.53
2:d:1073:PHE:CG	2:d:1078:MET:HE2	2.44	0.53
1:E:222:SER:OG	1:E:517:THR:HG22	2.09	0.53
1:H:401:LEU:HD22	1:H:411:TYR:CE1	2.44	0.53
2:h:1062:ILE:HG23	2:h:1146:LEU:HG	1.89	0.53
1:K:206:TRP:HA	1:K:206:TRP:CE3	2.44	0.53
1:L:512:ASP:CG	1:L:515:GLU:HB2	2.33	0.53
1:L:524:LYS:CD	1:L:579:ASP:HB3	2.36	0.53
1:L:645:GLU:HB2	1:L:654:GLU:O	2.08	0.53
2:l:1062:ILE:HG23	2:l:1146:LEU:HG	1.90	0.53
1:M:234:SER:O	1:M:235:ASP:C	2.52	0.53
1:O:410:TYR:CD2	1:O:414:LYS:HE2	2.43	0.53
1:A:505:ILE:HD11	1:A:530:ALA:CB	2.39	0.53
1:B:178:ARG:NH2	1:C:200:ARG:HB3	2.23	0.53
1:C:195:ASP:CG	1:C:196:VAL:H	2.17	0.53
1:C:206:TRP:HA	1:C:206:TRP:CE3	2.44	0.53
2:c:1064:ASN:HB3	2:c:1068:GLN:HE21	1.73	0.53
1:E:660:TYR:HE2	1:E:710:PRO:HG3	1.74	0.53
1:G:206:TRP:HA	1:G:206:TRP:CE3	2.44	0.53
1:G:262:VAL:CG1	1:G:379:PRO:HG2	2.38	0.53
1:G:336:HIS:CG	1:G:708:ILE:HG22	2.43	0.53
1:G:453:ASP:OD1	1:G:455:VAL:HG12	2.09	0.53
1:H:453:ASP:OD1	1:H:455:VAL:HG12	2.09	0.53
1:H:484:ILE:H	1:H:484:ILE:CD1	2.22	0.53
1:I:603:ILE:O	1:I:605:VAL:HG23	2.08	0.53
1:J:262:VAL:CG1	1:J:379:PRO:HG2	2.38	0.53
1:J:270:ILE:HG23	1:J:361:ASN:HB3	1.90	0.53
1:O:206:TRP:HA	1:O:206:TRP:CE3	2.44	0.53
1:A:206:TRP:HA	1:A:206:TRP:CE3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:336:HIS:CG	1:A:708:ILE:HG22	2.43	0.53
1:A:489:ALA:O	1:A:504:ARG:HA	2.09	0.53
1:B:222:SER:OG	1:B:517:THR:HG22	2.09	0.53
1:B:401:LEU:HD22	1:B:411:TYR:CE1	2.44	0.53
1:C:295:THR:OG1	1:C:332:VAL:HG12	2.09	0.53
1:C:336:HIS:CG	1:C:708:ILE:HG22	2.43	0.53
1:E:270:ILE:HG23	1:E:361:ASN:HB3	1.90	0.53
1:F:401:LEU:HD22	1:F:411:TYR:CE1	2.44	0.53
1:F:411:TYR:HD2	1:F:412:PRO:HD3	1.74	0.53
1:F:484:ILE:H	1:F:484:ILE:CD1	2.22	0.53
1:G:505:ILE:HD11	1:G:530:ALA:CB	2.39	0.53
1:H:206:TRP:CE3	1:H:206:TRP:HA	2.44	0.53
1:I:368:ASN:HB2	1:I:405:LEU:HG	1.91	0.53
1:I:453:ASP:OD1	1:I:455:VAL:HG12	2.09	0.53
1:I:660:TYR:HE2	1:I:710:PRO:HG3	1.74	0.53
1:J:207:ILE:N	1:J:211:HIS:HD2	2.07	0.53
1:J:295:THR:OG1	1:J:332:VAL:HG12	2.09	0.53
1:J:480:VAL:HG21	1:K:468:ARG:CG	2.37	0.53
1:J:660:TYR:HE2	1:J:710:PRO:HG3	1.74	0.53
2:j:1064:ASN:HB3	2:j:1068:GLN:HE21	1.73	0.53
1:L:207:ILE:N	1:L:211:HIS:HD2	2.07	0.53
1:L:234:SER:O	1:L:235:ASP:C	2.52	0.53
1:L:484:ILE:H	1:L:484:ILE:CD1	2.22	0.53
1:M:401:LEU:HD22	1:M:411:TYR:CE1	2.44	0.53
1:O:222:SER:OG	1:O:517:THR:HG22	2.09	0.53
1:O:576:THR:C	1:O:578:LEU:H	2.16	0.53
1:A:222:SER:OG	1:A:517:THR:HG22	2.09	0.53
1:A:403:GLN:HE21	1:A:403:GLN:N	1.99	0.53
1:B:206:TRP:CE3	1:B:206:TRP:HA	2.44	0.53
1:D:368:ASN:HB2	1:D:405:LEU:HG	1.91	0.53
1:D:401:LEU:HD12	1:D:401:LEU:O	2.10	0.53
1:D:489:ALA:O	1:D:504:ARG:HA	2.09	0.53
1:D:576:THR:C	1:D:578:LEU:H	2.16	0.53
1:E:401:LEU:HD22	1:E:411:TYR:CE1	2.44	0.53
2:e:1056:ALA:HA	2:e:1114:PRO:CB	2.31	0.53
2:e:1073:PHE:CG	2:e:1078:MET:HE2	2.44	0.53
2:f:1040:ARG:HH21	2:f:1216:GLN:HB3	1.73	0.53
1:G:234:SER:O	1:G:235:ASP:C	2.52	0.53
1:G:410:TYR:CD2	1:G:414:LYS:HE2	2.43	0.53
1:G:660:TYR:HE2	1:G:710:PRO:HG3	1.74	0.53
2:g:1073:PHE:CG	2:g:1078:MET:HE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:LEU:HD22	1:I:506:ALA:HB3	1.90	0.53
1:J:195:ASP:CG	1:J:196:VAL:H	2.17	0.53
1:J:222:SER:OG	1:J:517:THR:HG22	2.09	0.53
1:J:489:ALA:O	1:J:504:ARG:HA	2.09	0.53
1:K:217:THR:HG22	1:K:218:LYS:N	2.23	0.53
1:K:533:PHE:CE2	1:K:542:TYR:HB2	2.44	0.53
1:K:576:THR:C	1:K:578:LEU:H	2.16	0.53
1:L:222:SER:OG	1:L:517:THR:HG22	2.09	0.53
1:M:206:TRP:CE3	1:M:206:TRP:HA	2.44	0.53
1:M:207:ILE:N	1:M:211:HIS:HD2	2.07	0.53
1:M:255:LEU:HD22	1:M:506:ALA:HB3	1.90	0.53
1:M:453:ASP:OD1	1:M:455:VAL:HG12	2.08	0.53
1:M:660:TYR:HE2	1:M:710:PRO:HG3	1.74	0.53
2:m:1073:PHE:CG	2:m:1078:MET:HE2	2.44	0.53
1:O:195:ASP:CG	1:O:196:VAL:H	2.17	0.53
1:A:201:THR:N	1:F:224:GLU:OE2	2.41	0.52
1:A:207:ILE:N	1:A:211:HIS:HD2	2.07	0.52
1:A:464:PHE:N	1:A:464:PHE:CD2	2.74	0.52
1:B:319:SER:N	1:C:414:LYS:HE3	2.24	0.52
1:C:222:SER:OG	1:C:517:THR:HG22	2.09	0.52
1:D:206:TRP:HA	1:D:206:TRP:CE3	2.44	0.52
1:D:453:ASP:OD1	1:D:455:VAL:HG12	2.09	0.52
1:E:411:TYR:HD2	1:E:412:PRO:HD3	1.74	0.52
1:E:505:ILE:HD11	1:E:530:ALA:CB	2.39	0.52
2:e:1044:ASP:HB3	2:e:1095:LEU:HD11	1.92	0.52
1:F:401:LEU:HD12	1:F:401:LEU:O	2.10	0.52
1:F:533:PHE:CE2	1:F:542:TYR:HB2	2.45	0.52
1:G:222:SER:OG	1:G:517:THR:HG22	2.09	0.52
1:H:489:ALA:O	1:H:504:ARG:HA	2.09	0.52
2:h:1073:PHE:CG	2:h:1078:MET:HE2	2.44	0.52
1:I:401:LEU:HD22	1:I:411:TYR:CE1	2.44	0.52
1:J:401:LEU:HD12	1:J:401:LEU:O	2.10	0.52
1:K:195:ASP:CG	1:K:196:VAL:H	2.17	0.52
1:K:248:SER:OG	1:K:371:THR:HA	2.10	0.52
1:K:403:GLN:HE21	1:K:403:GLN:N	1.99	0.52
1:K:489:ALA:O	1:K:504:ARG:HA	2.09	0.52
1:L:368:ASN:HB2	1:L:405:LEU:HG	1.91	0.52
1:M:489:ALA:O	1:M:504:ARG:HA	2.09	0.52
1:M:533:PHE:CE2	1:M:542:TYR:HB2	2.45	0.52
1:M:645:GLU:HB2	1:M:654:GLU:O	2.08	0.52
2:m:1062:ILE:HG23	2:m:1146:LEU:HG	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1073:PHE:CG	2:a:1078:MET:HE2	2.44	0.52
1:C:255:LEU:HD22	1:C:506:ALA:HB3	1.90	0.52
1:G:645:GLU:HB2	1:G:654:GLU:O	2.08	0.52
1:H:336:HIS:CG	1:H:708:ILE:HG22	2.43	0.52
1:H:516:THR:HG21	1:I:196:VAL:HG21	1.90	0.52
1:I:207:ILE:N	1:I:211:HIS:HD2	2.07	0.52
1:I:263:HIS:CD2	1:I:297:ARG:HG3	2.45	0.52
2:i:1101:LYS:O	2:i:1104:LYS:HB3	2.08	0.52
1:J:484:ILE:H	1:J:484:ILE:CD1	2.21	0.52
1:J:533:PHE:CE2	1:J:542:TYR:HB2	2.45	0.52
1:K:401:LEU:HD22	1:K:411:TYR:CE1	2.44	0.52
1:K:484:ILE:H	1:K:484:ILE:CD1	2.21	0.52
1:K:645:GLU:HB2	1:K:654:GLU:O	2.08	0.52
1:O:411:TYR:HD2	1:O:412:PRO:HD3	1.74	0.52
1:A:401:LEU:HD12	1:A:401:LEU:O	2.10	0.52
1:A:533:PHE:CE2	1:A:542:TYR:HB2	2.45	0.52
2:a:1040:ARG:HH21	2:a:1216:GLN:HB3	1.73	0.52
1:B:195:ASP:CG	1:B:196:VAL:H	2.17	0.52
1:B:263:HIS:CD2	1:B:297:ARG:HG3	2.45	0.52
1:B:336:HIS:CG	1:B:708:ILE:HG22	2.43	0.52
2:b:1044:ASP:HB3	2:b:1095:LEU:HD11	1.92	0.52
2:b:1073:PHE:CG	2:b:1078:MET:HE2	2.44	0.52
1:C:263:HIS:CD2	1:C:297:ARG:HG3	2.45	0.52
1:C:489:ALA:O	1:C:504:ARG:HA	2.09	0.52
1:E:206:TRP:CE3	1:E:206:TRP:HA	2.44	0.52
2:e:1040:ARG:HH21	2:e:1216:GLN:HB3	1.73	0.52
2:f:1073:PHE:CG	2:f:1078:MET:HE2	2.44	0.52
1:G:316:ILE:HD12	1:H:496:LYS:CG	2.40	0.52
1:G:576:THR:C	1:G:578:LEU:H	2.16	0.52
1:H:660:TYR:HE2	1:H:710:PRO:HG3	1.74	0.52
1:J:401:LEU:HD22	1:J:411:TYR:CE1	2.44	0.52
1:M:263:HIS:CD2	1:M:297:ARG:HG3	2.45	0.52
1:M:524:LYS:CD	1:M:579:ASP:HB3	2.36	0.52
1:A:315:ASP:OD1	1:B:497:ASP:CG	2.53	0.52
1:B:319:SER:HA	1:C:414:LYS:CB	2.40	0.52
1:B:401:LEU:HD12	1:B:401:LEU:O	2.10	0.52
1:C:189:VAL:CG1	1:O:199:LYS:HG2	2.39	0.52
1:D:248:SER:OG	1:D:371:THR:HA	2.10	0.52
1:D:255:LEU:HD22	1:D:506:ALA:HB3	1.90	0.52
1:D:295:THR:OG1	1:D:332:VAL:HG12	2.09	0.52
1:D:401:LEU:HD22	1:D:411:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:207:ILE:N	1:E:211:HIS:HD2	2.07	0.52
1:F:217:THR:HG22	1:F:218:LYS:N	2.23	0.52
1:G:207:ILE:N	1:G:211:HIS:HD2	2.07	0.52
1:G:401:LEU:HD22	1:G:411:TYR:CE1	2.44	0.52
1:G:533:PHE:CE2	1:G:542:TYR:HB2	2.45	0.52
1:H:195:ASP:CG	1:H:196:VAL:H	2.17	0.52
1:H:207:ILE:N	1:H:211:HIS:HD2	2.07	0.52
1:H:222:SER:OG	1:H:517:THR:HG22	2.09	0.52
1:H:645:GLU:HB2	1:H:654:GLU:O	2.08	0.52
1:I:195:ASP:CG	1:I:196:VAL:H	2.17	0.52
1:I:411:TYR:HD2	1:I:412:PRO:HD3	1.74	0.52
1:I:533:PHE:CE2	1:I:542:TYR:HB2	2.45	0.52
2:i:1040:ARG:HH21	2:i:1216:GLN:HB3	1.72	0.52
1:L:248:SER:OG	1:L:371:THR:HA	2.10	0.52
1:L:660:TYR:HE2	1:L:710:PRO:HG3	1.74	0.52
1:M:295:THR:OG1	1:M:332:VAL:HG12	2.09	0.52
1:O:263:HIS:CD2	1:O:297:ARG:HG3	2.45	0.52
1:B:295:THR:OG1	1:B:332:VAL:HG12	2.09	0.52
1:B:533:PHE:CE2	1:B:542:TYR:HB2	2.45	0.52
1:D:484:ILE:H	1:D:484:ILE:CD1	2.22	0.52
1:F:195:ASP:CG	1:F:196:VAL:H	2.17	0.52
1:G:248:SER:OG	1:G:371:THR:HA	2.10	0.52
1:G:263:HIS:CD2	1:G:297:ARG:HG3	2.45	0.52
1:G:401:LEU:HD12	1:G:401:LEU:O	2.10	0.52
1:G:524:LYS:CD	1:G:579:ASP:HB3	2.36	0.52
1:H:263:HIS:CD2	1:H:297:ARG:HG3	2.45	0.52
2:j:1073:PHE:CG	2:j:1078:MET:HE2	2.44	0.52
1:L:195:ASP:CG	1:L:196:VAL:H	2.17	0.52
1:L:206:TRP:HA	1:L:206:TRP:CE3	2.44	0.52
1:L:263:HIS:CD2	1:L:297:ARG:HG3	2.45	0.52
1:L:295:THR:OG1	1:L:332:VAL:HG12	2.09	0.52
1:L:533:PHE:CE2	1:L:542:TYR:HB2	2.45	0.52
1:M:248:SER:OG	1:M:371:THR:HA	2.10	0.52
1:B:410:TYR:CD2	1:B:414:LYS:HE2	2.43	0.52
2:c:1044:ASP:HB3	2:c:1095:LEU:HD11	1.92	0.52
1:D:263:HIS:CD2	1:D:297:ARG:HG3	2.45	0.52
1:E:533:PHE:CE2	1:E:542:TYR:HB2	2.45	0.52
1:F:255:LEU:HD22	1:F:506:ALA:HB3	1.90	0.52
1:H:411:TYR:HD2	1:H:412:PRO:HD3	1.74	0.52
1:H:533:PHE:CE2	1:H:542:TYR:HB2	2.44	0.52
1:K:234:SER:O	1:K:235:ASP:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:255:LEU:HD22	1:K:506:ALA:HB3	1.90	0.52
1:K:270:ILE:HG23	1:K:361:ASN:HB3	1.90	0.52
1:K:295:THR:OG1	1:K:332:VAL:HG12	2.09	0.52
1:K:316:ILE:HD12	1:L:496:LYS:CD	2.39	0.52
1:K:336:HIS:CG	1:K:708:ILE:HG22	2.43	0.52
1:L:411:TYR:HD2	1:L:412:PRO:HD3	1.74	0.52
1:O:533:PHE:CE2	1:O:542:TYR:HB2	2.45	0.52
1:O:660:TYR:HE2	1:O:710:PRO:HG3	1.74	0.52
1:A:270:ILE:HG23	1:A:361:ASN:HB3	1.90	0.52
1:C:207:ILE:N	1:C:211:HIS:HD2	2.07	0.52
1:C:660:TYR:HE2	1:C:710:PRO:HG3	1.74	0.52
1:D:195:ASP:CG	1:D:196:VAL:H	2.17	0.52
1:F:295:THR:OG1	1:F:332:VAL:HG12	2.09	0.52
2:f:1044:ASP:HB3	2:f:1095:LEU:HD11	1.92	0.52
1:G:489:ALA:O	1:G:504:ARG:HA	2.09	0.52
1:I:234:SER:O	1:I:235:ASP:C	2.52	0.52
1:I:345:THR:HG22	1:I:347:ALA:HB3	1.92	0.52
1:J:263:HIS:CD2	1:J:297:ARG:HG3	2.45	0.52
1:J:505:ILE:HD11	1:J:530:ALA:CB	2.39	0.52
1:K:263:HIS:CD2	1:K:297:ARG:HG3	2.45	0.52
1:M:195:ASP:CG	1:M:196:VAL:H	2.17	0.52
1:O:248:SER:OG	1:O:371:THR:HA	2.10	0.52
1:A:295:THR:OG1	1:A:332:VAL:HG12	2.09	0.52
1:B:255:LEU:HD22	1:B:506:ALA:HB3	1.90	0.52
1:B:515:GLU:OE1	1:C:245:LYS:HE2	2.09	0.52
2:b:1056:ALA:HA	2:b:1114:PRO:CB	2.31	0.52
1:D:178:ARG:CZ	1:E:200:ARG:HB3	2.40	0.52
1:D:345:THR:HG22	1:D:347:ALA:HB3	1.92	0.52
1:E:368:ASN:HB2	1:E:405:LEU:HG	1.91	0.52
1:F:207:ILE:N	1:F:211:HIS:HD2	2.07	0.52
1:F:368:ASN:HB2	1:F:405:LEU:HG	1.91	0.52
1:F:493:PHE:HB3	1:F:531:PHE:CE1	2.45	0.52
1:F:505:ILE:HD11	1:F:530:ALA:CB	2.39	0.52
1:G:270:ILE:HG23	1:G:361:ASN:HB3	1.90	0.52
1:G:295:THR:OG1	1:G:332:VAL:HG12	2.09	0.52
1:G:414:LYS:HG3	1:M:319:SER:H	0.49	0.52
1:G:466:ASN:HB2	1:M:226:TRP:CE3	2.44	0.52
1:G:484:ILE:H	1:G:484:ILE:CD1	2.22	0.52
1:G:493:PHE:HB3	1:G:531:PHE:CE1	2.45	0.52
1:H:260:PRO:HD3	1:H:477:TRP:CH2	2.45	0.52
1:H:505:ILE:HD11	1:H:530:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:325:SER:OG	1:J:415:ASN:ND2	2.42	0.52
1:J:345:THR:HG22	1:J:347:ALA:HB3	1.92	0.52
1:K:207:ILE:N	1:K:211:HIS:HD2	2.07	0.52
1:K:260:PRO:HD3	1:K:477:TRP:CH2	2.45	0.52
1:K:493:PHE:HB3	1:K:531:PHE:CE1	2.45	0.52
1:L:260:PRO:HD3	1:L:477:TRP:CH2	2.45	0.52
1:L:401:LEU:HD22	1:L:411:TYR:CE1	2.44	0.52
1:M:262:VAL:CG1	1:M:379:PRO:HG2	2.38	0.52
1:M:484:ILE:H	1:M:484:ILE:CD1	2.22	0.52
1:M:493:PHE:HB3	1:M:531:PHE:CE1	2.45	0.52
1:O:368:ASN:HB2	1:O:405:LEU:HG	1.91	0.52
1:B:411:TYR:HD2	1:B:412:PRO:HD3	1.74	0.52
1:B:489:ALA:O	1:B:504:ARG:HA	2.09	0.52
1:C:248:SER:OG	1:C:371:THR:HA	2.10	0.52
1:D:493:PHE:HB3	1:D:531:PHE:CE1	2.45	0.52
1:D:533:PHE:CE2	1:D:542:TYR:HB2	2.45	0.52
1:E:260:PRO:HD3	1:E:477:TRP:CH2	2.45	0.52
1:E:493:PHE:HB3	1:E:531:PHE:CE1	2.45	0.52
1:F:248:SER:OG	1:F:371:THR:HA	2.10	0.52
1:F:260:PRO:HD3	1:F:477:TRP:CH2	2.45	0.52
1:F:660:TYR:HE2	1:F:710:PRO:HG3	1.74	0.52
1:G:368:ASN:HB2	1:G:405:LEU:HG	1.91	0.52
1:H:270:ILE:HG23	1:H:361:ASN:HB3	1.90	0.52
2:h:1040:ARG:HA	2:h:1041:ARG:HH11	1.75	0.52
1:I:514:LEU:C	1:I:516:THR:H	2.18	0.52
1:I:645:GLU:HB2	1:I:654:GLU:O	2.08	0.52
1:K:401:LEU:HD12	1:K:401:LEU:O	2.10	0.52
1:K:411:TYR:HD2	1:K:412:PRO:HD3	1.74	0.52
2:k:1040:ARG:HH21	2:k:1216:GLN:HB3	1.73	0.52
2:l:1040:ARG:HA	2:l:1041:ARG:HH11	1.75	0.52
2:l:1064:ASN:HB3	2:l:1068:GLN:HE21	1.73	0.52
1:O:234:SER:O	1:O:235:ASP:C	2.52	0.52
1:O:489:ALA:O	1:O:504:ARG:HA	2.09	0.52
1:O:493:PHE:HB3	1:O:531:PHE:CE1	2.45	0.52
1:A:260:PRO:HD3	1:A:477:TRP:CH2	2.45	0.52
1:A:368:ASN:HB2	1:A:405:LEU:HG	1.91	0.52
2:a:1040:ARG:HA	2:a:1041:ARG:HH11	1.75	0.52
1:C:411:TYR:HD2	1:C:412:PRO:HD3	1.74	0.52
1:C:484:ILE:H	1:C:484:ILE:CD1	2.21	0.52
2:c:1040:ARG:HA	2:c:1041:ARG:HH11	1.75	0.52
1:D:260:PRO:HD3	1:D:477:TRP:CH2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:185:ASP:O	1:E:186:SER:C	2.53	0.52
1:E:489:ALA:O	1:E:504:ARG:HA	2.09	0.52
1:E:514:LEU:C	1:E:516:THR:H	2.18	0.52
1:F:270:ILE:HG23	1:F:361:ASN:HB3	1.90	0.52
1:G:195:ASP:CG	1:G:196:VAL:H	2.17	0.52
1:G:670:GLN:O	1:M:314:PHE:HZ	1.92	0.52
1:H:248:SER:OG	1:H:371:THR:HA	2.10	0.52
1:H:345:THR:HG22	1:H:347:ALA:HB3	1.92	0.52
1:I:185:ASP:O	1:I:186:SER:C	2.53	0.52
1:I:493:PHE:HB3	1:I:531:PHE:CE1	2.45	0.52
1:J:483:GLN:HE21	1:K:469:VAL:HG21	1.72	0.52
1:K:345:THR:HG22	1:K:347:ALA:HB3	1.92	0.52
1:L:345:THR:HG22	1:L:347:ALA:HB3	1.92	0.52
1:L:489:ALA:O	1:L:504:ARG:HA	2.09	0.52
1:L:514:LEU:C	1:L:516:THR:H	2.18	0.52
1:M:368:ASN:HB2	1:M:405:LEU:HG	1.91	0.52
2:m:1040:ARG:HA	2:m:1041:ARG:HH11	1.75	0.52
1:O:255:LEU:HD22	1:O:506:ALA:HB3	1.90	0.52
1:O:453:ASP:OD1	1:O:455:VAL:HG12	2.09	0.52
1:A:263:HIS:CD2	1:A:297:ARG:HG3	2.45	0.51
1:A:367:VAL:O	1:A:367:VAL:HG13	2.10	0.51
1:B:514:LEU:C	1:B:516:THR:H	2.18	0.51
1:C:260:PRO:HD3	1:C:477:TRP:CH2	2.45	0.51
1:C:533:PHE:CE2	1:C:542:TYR:HB2	2.44	0.51
1:D:514:LEU:C	1:D:516:THR:H	2.18	0.51
1:E:248:SER:OG	1:E:371:THR:HA	2.10	0.51
1:F:206:TRP:HA	1:F:206:TRP:CE3	2.44	0.51
1:G:411:TYR:HD2	1:G:412:PRO:HD3	1.74	0.51
1:J:493:PHE:HB3	1:J:531:PHE:CE1	2.45	0.51
1:L:493:PHE:HB3	1:L:531:PHE:CE1	2.45	0.51
1:O:207:ILE:N	1:O:211:HIS:HD2	2.07	0.51
1:O:260:PRO:HD3	1:O:477:TRP:CH2	2.45	0.51
1:O:401:LEU:HD12	1:O:401:LEU:O	2.10	0.51
1:O:401:LEU:HD22	1:O:411:TYR:CE1	2.44	0.51
1:A:248:SER:OG	1:A:371:THR:HA	2.10	0.51
1:C:185:ASP:O	1:C:186:SER:C	2.53	0.51
1:C:345:THR:HG22	1:C:347:ALA:HB3	1.92	0.51
1:C:367:VAL:HG13	1:C:367:VAL:O	2.10	0.51
1:D:207:ILE:N	1:D:211:HIS:HD2	2.07	0.51
1:E:401:LEU:HD12	1:E:401:LEU:O	2.10	0.51
1:F:367:VAL:HG13	1:F:367:VAL:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:524:LYS:CD	1:F:579:ASP:HB3	2.36	0.51
1:G:185:ASP:O	1:G:186:SER:C	2.53	0.51
1:G:260:PRO:HD3	1:G:477:TRP:CH2	2.45	0.51
1:H:401:LEU:HD12	1:H:401:LEU:O	2.10	0.51
1:H:514:LEU:C	1:H:516:THR:H	2.18	0.51
1:I:206:TRP:HA	1:I:206:TRP:CE3	2.44	0.51
1:I:260:PRO:HD3	1:I:477:TRP:CH2	2.45	0.51
1:I:505:ILE:HD11	1:I:530:ALA:CB	2.39	0.51
2:i:1044:ASP:HB3	2:i:1095:LEU:HD11	1.92	0.51
1:J:232:PRO:HA	1:K:468:ARG:HH22	1.75	0.51
1:J:411:TYR:HD2	1:J:412:PRO:HD3	1.74	0.51
1:L:403:GLN:NE2	1:L:403:GLN:N	2.47	0.51
1:B:234:SER:O	1:B:235:ASP:C	2.52	0.51
1:B:248:SER:OG	1:B:371:THR:HA	2.10	0.51
1:B:345:THR:HG22	1:B:347:ALA:HB3	1.92	0.51
1:B:524:LYS:CD	1:B:579:ASP:HB3	2.36	0.51
2:c:1056:ALA:CA	2:c:1114:PRO:HB2	2.33	0.51
1:E:263:HIS:CD2	1:E:297:ARG:HG3	2.45	0.51
1:F:263:HIS:CD2	1:F:297:ARG:HG3	2.45	0.51
1:F:489:ALA:O	1:F:504:ARG:HA	2.09	0.51
1:G:245:LYS:HE2	1:M:515:GLU:OE1	2.10	0.51
1:G:255:LEU:HD22	1:G:506:ALA:HB3	1.90	0.51
1:G:464:PHE:N	1:G:464:PHE:HD2	2.09	0.51
2:i:1137:LEU:C	2:i:1139:THR:H	2.19	0.51
1:J:260:PRO:HD3	1:J:477:TRP:CH2	2.45	0.51
2:l:1137:LEU:C	2:l:1139:THR:H	2.19	0.51
1:M:401:LEU:HD12	1:M:401:LEU:O	2.10	0.51
1:A:411:TYR:HD2	1:A:412:PRO:HD3	1.74	0.51
1:A:493:PHE:HB3	1:A:531:PHE:CE1	2.45	0.51
1:B:260:PRO:HD3	1:B:477:TRP:CH2	2.45	0.51
1:B:479:GLU:OE1	1:C:470:ARG:HA	2.11	0.51
1:C:401:LEU:HD22	1:C:411:TYR:CE1	2.44	0.51
1:C:514:LEU:C	1:C:516:THR:H	2.18	0.51
1:D:660:TYR:HB2	1:D:707:ILE:HG13	1.93	0.51
1:E:234:SER:O	1:E:235:ASP:C	2.52	0.51
1:E:345:THR:HG22	1:E:347:ALA:HB3	1.92	0.51
2:e:1137:LEU:C	2:e:1139:THR:H	2.19	0.51
2:g:1137:LEU:C	2:g:1139:THR:H	2.19	0.51
1:H:576:THR:C	1:H:578:LEU:H	2.16	0.51
1:I:489:ALA:O	1:I:504:ARG:HA	2.09	0.51
2:j:1040:ARG:HA	2:j:1041:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1137:LEU:C	2:j:1139:THR:H	2.19	0.51
1:K:514:LEU:C	1:K:516:THR:H	2.18	0.51
1:M:270:ILE:HG23	1:M:270:ILE:O	2.11	0.51
1:A:514:LEU:C	1:A:516:THR:H	2.18	0.51
1:C:660:TYR:HB2	1:C:707:ILE:HG13	1.93	0.51
1:F:261:ILE:O	1:F:369:THR:HG22	2.11	0.51
1:F:481:LEU:C	1:F:481:LEU:HD23	2.36	0.51
1:G:270:ILE:HG23	1:G:270:ILE:O	2.11	0.51
1:G:466:ASN:CB	1:M:226:TRP:CD2	2.92	0.51
1:G:660:TYR:HB2	1:G:707:ILE:HG13	1.93	0.51
1:H:493:PHE:HB3	1:H:531:PHE:CE1	2.45	0.51
1:I:248:SER:OG	1:I:371:THR:HA	2.10	0.51
1:I:270:ILE:HG23	1:I:270:ILE:O	2.11	0.51
1:I:481:LEU:HD23	1:I:481:LEU:C	2.36	0.51
1:J:206:TRP:HA	1:J:206:TRP:CE3	2.44	0.51
1:K:185:ASP:O	1:K:186:SER:C	2.53	0.51
1:L:481:LEU:HD23	1:L:481:LEU:C	2.36	0.51
1:L:505:ILE:HD11	1:L:530:ALA:CB	2.39	0.51
2:l:1044:ASP:HB3	2:l:1095:LEU:HD11	1.92	0.51
2:m:1040:ARG:HH21	2:m:1216:GLN:HB3	1.73	0.51
2:m:1137:LEU:C	2:m:1139:THR:H	2.19	0.51
1:O:481:LEU:HD23	1:O:481:LEU:C	2.36	0.51
2:o:1044:ASP:HB3	2:o:1095:LEU:HD11	1.92	0.51
1:A:524:LYS:CD	1:A:579:ASP:HB3	2.36	0.51
1:B:270:ILE:HG23	1:B:270:ILE:O	2.11	0.51
1:B:660:TYR:HB2	1:B:707:ILE:HG13	1.93	0.51
2:c:1040:ARG:HH21	2:c:1216:GLN:HB3	1.73	0.51
1:D:367:VAL:O	1:D:367:VAL:HG13	2.10	0.51
1:D:394:ILE:HD13	1:D:421:LEU:HD21	1.93	0.51
2:d:1044:ASP:HB3	2:d:1095:LEU:HD11	1.92	0.51
1:E:481:LEU:HD23	1:E:481:LEU:C	2.36	0.51
1:E:660:TYR:HB2	1:E:707:ILE:HG13	1.93	0.51
1:F:660:TYR:HB2	1:F:707:ILE:HG13	1.93	0.51
1:G:468:ARG:CG	1:M:480:VAL:CG2	2.88	0.51
1:G:514:LEU:C	1:G:516:THR:H	2.18	0.51
2:g:1044:ASP:HB3	2:g:1095:LEU:HD11	1.92	0.51
1:H:185:ASP:O	1:H:186:SER:C	2.53	0.51
1:H:368:ASN:HB2	1:H:405:LEU:HG	1.91	0.51
1:H:607:ALA:H	1:H:638:ILE:CD1	2.20	0.51
1:I:367:VAL:O	1:I:367:VAL:HG13	2.10	0.51
1:I:464:PHE:N	1:I:464:PHE:HD2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:660:TYR:HE2	1:K:710:PRO:HG3	1.74	0.51
2:k:1137:LEU:C	2:k:1139:THR:H	2.19	0.51
1:L:271:LEU:CD1	1:L:289:ILE:HD11	2.36	0.51
2:l:1103:SER:O	2:l:1107:GLU:HG3	2.11	0.51
1:A:270:ILE:HG23	1:A:270:ILE:O	2.11	0.51
2:a:1056:ALA:CA	2:a:1114:PRO:HB2	2.33	0.51
1:B:493:PHE:HB3	1:B:531:PHE:CE1	2.45	0.51
2:b:1103:SER:O	2:b:1107:GLU:HG3	2.11	0.51
1:C:401:LEU:HD12	1:C:401:LEU:O	2.10	0.51
1:C:724:ILE:O	1:C:726:ILE:HD13	2.11	0.51
1:D:403:GLN:NE2	1:D:403:GLN:N	2.47	0.51
1:D:464:PHE:N	1:D:464:PHE:HD2	2.09	0.51
1:D:724:ILE:O	1:D:726:ILE:HD13	2.11	0.51
1:G:261:ILE:O	1:G:369:THR:HG22	2.11	0.51
2:g:1040:ARG:HA	2:g:1041:ARG:HH11	1.75	0.51
2:h:1137:LEU:C	2:h:1139:THR:H	2.19	0.51
1:J:234:SER:O	1:J:235:ASP:C	2.52	0.51
1:J:367:VAL:O	1:J:367:VAL:HG13	2.10	0.51
1:J:394:ILE:HD13	1:J:421:LEU:HD21	1.93	0.51
1:J:481:LEU:HD23	1:J:481:LEU:C	2.36	0.51
1:K:464:PHE:N	1:K:464:PHE:HD2	2.09	0.51
1:L:270:ILE:HG23	1:L:270:ILE:O	2.11	0.51
1:L:305:GLY:CA	1:M:670:GLN:CD	2.51	0.51
1:L:517:THR:HA	1:M:199:LYS:O	2.09	0.51
2:l:1040:ARG:HH21	2:l:1216:GLN:HB3	1.73	0.51
1:M:260:PRO:HD3	1:M:477:TRP:CH2	2.45	0.51
1:M:464:PHE:N	1:M:464:PHE:HD2	2.09	0.51
1:A:261:ILE:O	1:A:369:THR:HG22	2.11	0.51
1:A:481:LEU:HD23	1:A:481:LEU:C	2.36	0.51
2:a:1103:SER:O	2:a:1107:GLU:HG3	2.11	0.51
1:B:384:VAL:HG12	1:B:385:LEU:N	2.26	0.51
2:b:1040:ARG:HA	2:b:1041:ARG:HH11	1.75	0.51
1:C:187:LEU:HD21	1:C:205:PRO:HD3	1.93	0.51
1:D:185:ASP:O	1:D:186:SER:C	2.53	0.51
1:D:270:ILE:HG23	1:D:270:ILE:O	2.11	0.51
2:d:1137:LEU:C	2:d:1139:THR:H	2.19	0.51
1:E:271:LEU:CD1	1:E:289:ILE:HD11	2.36	0.51
1:E:483:GLN:NE2	1:F:245:LYS:H	2.07	0.51
1:E:724:ILE:O	1:E:726:ILE:HD13	2.11	0.51
1:G:204:SER:OG	1:G:205:PRO:HD2	2.11	0.51
1:J:185:ASP:O	1:J:186:SER:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:185:ASP:O	1:L:186:SER:C	2.53	0.51
1:L:401:LEU:HD12	1:L:401:LEU:O	2.10	0.51
1:L:464:PHE:N	1:L:464:PHE:HD2	2.09	0.51
1:M:185:ASP:O	1:M:186:SER:C	2.53	0.51
1:M:514:LEU:C	1:M:516:THR:H	2.18	0.51
1:O:270:ILE:HG23	1:O:270:ILE:O	2.11	0.51
1:O:394:ILE:HD13	1:O:421:LEU:HD21	1.93	0.51
1:O:514:LEU:C	1:O:516:THR:H	2.18	0.51
1:A:480:VAL:HG21	1:B:468:ARG:HH11	1.76	0.51
1:A:660:TYR:HB2	1:A:707:ILE:HG13	1.93	0.51
1:C:261:ILE:O	1:C:369:THR:HG22	2.11	0.51
2:c:1137:LEU:C	2:c:1139:THR:H	2.19	0.51
1:D:234:SER:O	1:D:235:ASP:C	2.52	0.51
1:D:481:LEU:HD23	1:D:481:LEU:C	2.36	0.51
1:F:204:SER:OG	1:F:205:PRO:HD2	2.11	0.51
1:F:464:PHE:N	1:F:464:PHE:HD2	2.09	0.51
1:G:200:ARG:N	1:G:200:ARG:CD	2.71	0.51
1:G:403:GLN:HE21	1:G:403:GLN:N	1.99	0.51
1:G:481:LEU:HD23	1:G:481:LEU:C	2.36	0.51
1:H:270:ILE:HG23	1:H:270:ILE:O	2.11	0.51
1:H:464:PHE:N	1:H:464:PHE:HD2	2.09	0.51
1:H:724:ILE:O	1:H:726:ILE:HD13	2.11	0.51
1:I:187:LEU:HD21	1:I:205:PRO:HD3	1.93	0.51
1:J:514:LEU:C	1:J:516:THR:H	2.18	0.51
1:K:270:ILE:HG23	1:K:270:ILE:O	2.11	0.51
1:K:384:VAL:HG12	1:K:385:LEU:N	2.26	0.51
1:L:204:SER:OG	1:L:205:PRO:HD2	2.11	0.51
1:L:367:VAL:O	1:L:367:VAL:HG13	2.10	0.51
1:M:261:ILE:O	1:M:369:THR:HG22	2.11	0.51
2:m:1103:SER:O	2:m:1107:GLU:HG3	2.11	0.51
1:A:724:ILE:O	1:A:726:ILE:HD13	2.11	0.51
1:B:185:ASP:O	1:B:186:SER:C	2.53	0.51
1:C:394:ILE:HD13	1:C:421:LEU:HD21	1.93	0.51
1:C:493:PHE:HB3	1:C:531:PHE:CE1	2.45	0.51
1:E:367:VAL:HG13	1:E:367:VAL:O	2.10	0.51
1:F:185:ASP:O	1:F:186:SER:C	2.53	0.51
1:G:394:ILE:HD13	1:G:421:LEU:HD21	1.93	0.51
1:H:487:THR:HG21	1:I:245:LYS:HG3	1.93	0.51
2:h:1044:ASP:HB3	2:h:1095:LEU:HD11	1.92	0.51
1:I:204:SER:OG	1:I:205:PRO:HD2	2.11	0.51
1:I:401:LEU:HD12	1:I:401:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:481:LEU:HD23	1:I:481:LEU:O	2.11	0.51
1:J:248:SER:OG	1:J:371:THR:HA	2.10	0.51
2:j:1044:ASP:HB3	2:j:1095:LEU:HD11	1.92	0.51
2:k:1040:ARG:HA	2:k:1041:ARG:HH11	1.76	0.51
1:L:398:GLU:C	1:L:400:GLN:N	2.69	0.51
1:L:481:LEU:HD23	1:L:481:LEU:O	2.11	0.51
1:L:483:GLN:HE22	1:M:245:LYS:H	1.58	0.51
1:M:724:ILE:O	1:M:726:ILE:HD13	2.11	0.51
1:A:199:LYS:CG	1:F:189:VAL:CG1	2.89	0.50
1:B:204:SER:OG	1:B:205:PRO:HD2	2.11	0.50
1:B:261:ILE:O	1:B:369:THR:HG22	2.11	0.50
1:C:271:LEU:HB2	1:C:289:ILE:CG1	2.42	0.50
1:C:442:LEU:CD1	1:C:448:LEU:HD21	2.41	0.50
1:C:481:LEU:C	1:C:481:LEU:HD23	2.36	0.50
1:D:261:ILE:O	1:D:369:THR:HG22	2.11	0.50
1:D:442:LEU:CD1	1:D:448:LEU:HD21	2.41	0.50
1:E:271:LEU:HB2	1:E:289:ILE:CG1	2.42	0.50
1:F:187:LEU:HD21	1:F:205:PRO:HD3	1.93	0.50
1:G:345:THR:HG22	1:G:347:ALA:HB3	1.92	0.50
1:G:384:VAL:HG12	1:G:385:LEU:N	2.26	0.50
1:G:466:ASN:O	1:M:226:TRP:CB	2.59	0.50
1:G:481:LEU:HD23	1:G:481:LEU:O	2.11	0.50
2:g:1103:SER:O	2:g:1107:GLU:HG3	2.11	0.50
2:i:1040:ARG:HA	2:i:1041:ARG:HH11	1.75	0.50
1:J:187:LEU:HD21	1:J:205:PRO:HD3	1.93	0.50
1:K:261:ILE:O	1:K:369:THR:HG22	2.11	0.50
1:K:481:LEU:O	1:K:481:LEU:HD23	2.11	0.50
1:K:724:ILE:O	1:K:726:ILE:HD13	2.11	0.50
1:L:187:LEU:HD21	1:L:205:PRO:HD3	1.93	0.50
1:M:187:LEU:HD21	1:M:205:PRO:HD3	1.93	0.50
1:O:442:LEU:CD1	1:O:448:LEU:HD21	2.41	0.50
1:A:326:ASN:HB3	1:A:485:GLN:HE22	1.77	0.50
1:B:367:VAL:O	1:B:367:VAL:HG13	2.10	0.50
1:D:645:GLU:HG3	1:D:697:ASN:HB2	1.94	0.50
1:E:195:ASP:CG	1:E:196:VAL:H	2.17	0.50
1:E:384:VAL:HG12	1:E:385:LEU:N	2.26	0.50
1:F:515:GLU:HG3	1:F:518:LYS:HD2	1.93	0.50
1:G:178:ARG:HH12	1:H:200:ARG:HB3	1.76	0.50
1:H:204:SER:OG	1:H:205:PRO:HD2	2.11	0.50
1:H:234:SER:O	1:H:235:ASP:C	2.52	0.50
1:H:398:GLU:C	1:H:400:GLN:N	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:1061:GLU:HA	2:h:1064:ASN:HD22	1.77	0.50
1:I:303:VAL:CG2	1:J:670:GLN:HG2	2.41	0.50
1:J:270:ILE:HG23	1:J:270:ILE:O	2.11	0.50
1:K:398:GLU:C	1:K:400:GLN:N	2.69	0.50
1:K:481:LEU:HD23	1:K:481:LEU:C	2.36	0.50
1:K:505:ILE:HD11	1:K:530:ALA:CB	2.39	0.50
1:K:660:TYR:HB2	1:K:707:ILE:HG13	1.93	0.50
2:k:1044:ASP:HB3	2:k:1095:LEU:HD11	1.92	0.50
1:L:271:LEU:HB2	1:L:289:ILE:CG1	2.42	0.50
1:L:384:VAL:HG12	1:L:385:LEU:N	2.26	0.50
1:L:442:LEU:CD1	1:L:448:LEU:HD21	2.42	0.50
1:B:724:ILE:O	1:B:726:ILE:HD13	2.11	0.50
1:C:270:ILE:HG23	1:C:270:ILE:O	2.11	0.50
1:D:271:LEU:HB2	1:D:289:ILE:CG1	2.42	0.50
2:e:1061:GLU:HA	2:e:1064:ASN:HD22	1.77	0.50
1:F:345:THR:HG22	1:F:347:ALA:HB3	1.92	0.50
2:f:1040:ARG:HA	2:f:1041:ARG:HH11	1.75	0.50
2:g:1056:ALA:CA	2:g:1114:PRO:HB2	2.33	0.50
2:g:1061:GLU:HA	2:g:1064:ASN:HD22	1.77	0.50
1:H:338:LEU:HD21	1:H:661:ASP:CG	2.37	0.50
1:I:326:ASN:HB3	1:I:485:GLN:HE22	1.77	0.50
1:J:271:LEU:HB2	1:J:289:ILE:CG1	2.42	0.50
1:J:481:LEU:HD23	1:J:481:LEU:O	2.11	0.50
1:J:515:GLU:HG3	1:J:518:LYS:HD2	1.94	0.50
2:j:1178:VAL:HG12	2:j:1179:LEU:HG	1.94	0.50
1:M:271:LEU:HB2	1:M:289:ILE:CG1	2.41	0.50
1:M:398:GLU:C	1:M:400:GLN:N	2.69	0.50
1:M:481:LEU:HD23	1:M:481:LEU:C	2.36	0.50
1:M:515:GLU:HG3	1:M:518:LYS:HD2	1.94	0.50
2:m:1044:ASP:HB3	2:m:1095:LEU:HD11	1.92	0.50
1:O:187:LEU:HD21	1:O:205:PRO:HD3	1.93	0.50
1:O:271:LEU:HB2	1:O:289:ILE:CG1	2.42	0.50
1:O:338:LEU:HD21	1:O:661:ASP:CG	2.37	0.50
1:O:481:LEU:HD23	1:O:481:LEU:O	2.11	0.50
1:O:660:TYR:HB2	1:O:707:ILE:HG13	1.93	0.50
2:a:1061:GLU:HA	2:a:1064:ASN:HD22	1.76	0.50
1:B:442:LEU:CD1	1:B:448:LEU:HD21	2.42	0.50
1:B:464:PHE:N	1:B:464:PHE:HD2	2.09	0.50
1:B:481:LEU:HD23	1:B:481:LEU:C	2.36	0.50
1:C:326:ASN:HB3	1:C:485:GLN:HE22	1.77	0.50
1:E:394:ILE:HD13	1:E:421:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:442:LEU:CD1	1:E:448:LEU:HD21	2.41	0.50
1:F:338:LEU:HD21	1:F:661:ASP:CG	2.37	0.50
2:f:1056:ALA:CA	2:f:1114:PRO:HB2	2.33	0.50
1:G:306:ASN:HA	1:H:669:ARG:CG	2.41	0.50
1:G:645:GLU:HG3	1:G:697:ASN:HB2	1.94	0.50
1:H:481:LEU:O	1:H:481:LEU:HD23	2.11	0.50
1:H:645:GLU:HG3	1:H:697:ASN:HB2	1.94	0.50
2:i:1061:GLU:HA	2:i:1064:ASN:HD22	1.77	0.50
1:J:442:LEU:CD1	1:J:448:LEU:HD21	2.41	0.50
2:j:1103:SER:O	2:j:1107:GLU:HG3	2.11	0.50
1:K:187:LEU:HD21	1:K:205:PRO:HD3	1.93	0.50
1:L:515:GLU:HG3	1:L:518:LYS:HD2	1.94	0.50
1:M:326:ASN:HB3	1:M:485:GLN:HE22	1.77	0.50
1:M:367:VAL:HG13	1:M:367:VAL:O	2.10	0.50
1:O:515:GLU:HG3	1:O:518:LYS:HD2	1.94	0.50
2:o:1040:ARG:HH21	2:o:1216:GLN:HB3	1.72	0.50
2:o:1137:LEU:C	2:o:1139:THR:H	2.19	0.50
1:A:258:ALA:O	1:A:372:ALA:HB2	2.12	0.50
1:A:442:LEU:CD1	1:A:448:LEU:HD21	2.42	0.50
1:B:258:ALA:O	1:B:372:ALA:HB2	2.12	0.50
1:B:394:ILE:HD13	1:B:421:LEU:HD21	1.93	0.50
1:B:505:ILE:HD11	1:B:530:ALA:CB	2.39	0.50
2:b:1137:LEU:C	2:b:1139:THR:H	2.19	0.50
1:C:204:SER:OG	1:C:205:PRO:HD2	2.11	0.50
1:C:258:ALA:O	1:C:372:ALA:HB2	2.12	0.50
1:C:384:VAL:HG12	1:C:385:LEU:N	2.26	0.50
1:D:187:LEU:HD21	1:D:205:PRO:HD3	1.93	0.50
1:D:326:ASN:HB3	1:D:485:GLN:HE22	1.77	0.50
1:D:398:GLU:C	1:D:400:GLN:N	2.69	0.50
1:D:496:LYS:HB3	1:O:316:ILE:HD12	1.92	0.50
1:E:187:LEU:HD21	1:E:205:PRO:HD3	1.93	0.50
1:E:204:SER:OG	1:E:205:PRO:HD2	2.11	0.50
1:E:261:ILE:O	1:E:369:THR:HG22	2.11	0.50
1:E:521:MET:HA	1:E:521:MET:CE	2.37	0.50
2:e:1040:ARG:HA	2:e:1041:ARG:HH11	1.76	0.50
1:H:187:LEU:HD21	1:H:205:PRO:HD3	1.93	0.50
1:H:326:ASN:HB3	1:H:485:GLN:HE22	1.76	0.50
1:H:481:LEU:HD23	1:H:481:LEU:C	2.36	0.50
1:I:258:ALA:O	1:I:372:ALA:HB2	2.12	0.50
1:I:261:ILE:O	1:I:369:THR:HG22	2.11	0.50
1:I:515:GLU:HG3	1:I:518:LYS:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:645:GLU:HG3	1:I:697:ASN:HB2	1.94	0.50
1:J:338:LEU:HD21	1:J:661:ASP:CG	2.37	0.50
1:J:645:GLU:HG3	1:J:697:ASN:HB2	1.94	0.50
1:J:724:ILE:O	1:J:726:ILE:HD13	2.11	0.50
1:K:338:LEU:HD21	1:K:661:ASP:CG	2.37	0.50
1:K:645:GLU:HG3	1:K:697:ASN:HB2	1.94	0.50
1:L:394:ILE:HD13	1:L:421:LEU:HD21	1.93	0.50
1:L:724:ILE:O	1:L:726:ILE:HD13	2.11	0.50
1:M:377:VAL:CG1	1:M:398:GLU:HG3	2.41	0.50
1:O:261:ILE:O	1:O:369:THR:HG22	2.11	0.50
1:O:367:VAL:O	1:O:367:VAL:HG13	2.10	0.50
1:A:338:LEU:HD21	1:A:661:ASP:CG	2.37	0.50
1:A:645:GLU:HG3	1:A:697:ASN:HB2	1.94	0.50
1:B:271:LEU:HB2	1:B:289:ILE:CG1	2.42	0.50
1:B:481:LEU:HD23	1:B:481:LEU:O	2.11	0.50
1:C:338:LEU:HD21	1:C:661:ASP:CG	2.37	0.50
1:C:483:GLN:NE2	1:O:245:LYS:H	2.10	0.50
1:C:505:ILE:HD11	1:C:530:ALA:CB	2.39	0.50
1:C:515:GLU:HG3	1:C:518:LYS:HD2	1.94	0.50
1:C:639:LEU:HD22	1:C:639:LEU:N	2.27	0.50
2:c:1103:SER:O	2:c:1107:GLU:HG3	2.11	0.50
1:D:204:SER:OG	1:D:205:PRO:HD2	2.11	0.50
1:D:496:LYS:HB3	1:O:316:ILE:CD1	2.41	0.50
1:D:515:GLU:HG3	1:D:518:LYS:HD2	1.94	0.50
1:E:270:ILE:HG23	1:E:270:ILE:O	2.11	0.50
1:F:724:ILE:O	1:F:726:ILE:HD13	2.11	0.50
2:f:1061:GLU:HA	2:f:1064:ASN:HD22	1.77	0.50
2:f:1137:LEU:C	2:f:1139:THR:H	2.19	0.50
1:H:261:ILE:O	1:H:369:THR:HG22	2.11	0.50
1:I:271:LEU:HB2	1:I:289:ILE:CG1	2.42	0.50
1:I:338:LEU:HD21	1:I:661:ASP:CG	2.37	0.50
2:i:1103:SER:O	2:i:1107:GLU:HG3	2.11	0.50
1:J:261:ILE:O	1:J:369:THR:HG22	2.11	0.50
1:K:305:GLY:CA	1:L:670:GLN:HG3	2.40	0.50
1:K:367:VAL:HG13	1:K:367:VAL:O	2.10	0.50
1:L:261:ILE:O	1:L:369:THR:HG22	2.11	0.50
1:L:377:VAL:CG1	1:L:398:GLU:HG3	2.41	0.50
1:L:645:GLU:HG3	1:L:697:ASN:HB2	1.94	0.50
1:M:481:LEU:HD23	1:M:481:LEU:O	2.11	0.50
1:O:384:VAL:HG12	1:O:385:LEU:N	2.26	0.50
1:A:185:ASP:O	1:A:186:SER:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:THR:HG22	1:A:347:ALA:HB3	1.92	0.50
1:B:505:ILE:N	1:B:505:ILE:HD12	2.27	0.50
2:c:1061:GLU:HA	2:c:1064:ASN:HD22	1.76	0.50
2:d:1040:ARG:HA	2:d:1041:ARG:HH11	1.75	0.50
1:E:258:ALA:O	1:E:372:ALA:HB2	2.12	0.50
1:E:464:PHE:N	1:E:464:PHE:HD2	2.09	0.50
1:F:645:GLU:HG3	1:F:697:ASN:HB2	1.94	0.50
1:G:308:GLU:HG2	1:H:667:SER:HB3	1.94	0.50
1:G:505:ILE:N	1:G:505:ILE:HD12	2.27	0.50
1:G:724:ILE:O	1:G:726:ILE:HD13	2.11	0.50
1:H:639:LEU:HD22	1:H:639:LEU:N	2.27	0.50
1:J:326:ASN:HB3	1:J:485:GLN:HE22	1.77	0.50
1:J:660:TYR:HB2	1:J:707:ILE:HG13	1.93	0.50
1:K:377:VAL:CG1	1:K:398:GLU:HG3	2.41	0.50
1:K:515:GLU:HG3	1:K:518:LYS:HD2	1.94	0.50
1:M:338:LEU:HD21	1:M:661:ASP:CG	2.37	0.50
1:O:345:THR:HG22	1:O:347:ALA:HB3	1.92	0.50
1:O:464:PHE:N	1:O:464:PHE:HD2	2.09	0.50
2:o:1103:SER:O	2:o:1107:GLU:HG3	2.11	0.50
1:A:271:LEU:HB2	1:A:289:ILE:CG1	2.42	0.50
1:A:303:VAL:HG23	1:B:670:GLN:HG2	1.94	0.50
2:a:1137:LEU:C	2:a:1139:THR:H	2.19	0.50
1:B:224:GLU:OE2	1:C:201:THR:N	2.45	0.50
1:B:338:LEU:HD21	1:B:661:ASP:CG	2.37	0.50
1:D:338:LEU:HD21	1:D:661:ASP:CG	2.37	0.50
2:d:1103:SER:O	2:d:1107:GLU:HG3	2.11	0.50
2:e:1103:SER:O	2:e:1107:GLU:HG3	2.11	0.50
1:F:200:ARG:N	1:F:200:ARG:CD	2.71	0.50
1:F:341:ALA:HB1	2:f:1155:VAL:HG23	1.94	0.50
1:F:442:LEU:CD1	1:F:448:LEU:HD21	2.41	0.50
1:F:481:LEU:HD23	1:F:481:LEU:O	2.11	0.50
1:F:639:LEU:HD22	1:F:639:LEU:N	2.27	0.50
2:f:1103:SER:O	2:f:1107:GLU:HG3	2.11	0.50
1:G:187:LEU:HD21	1:G:205:PRO:HD3	1.93	0.50
1:J:204:SER:OG	1:J:205:PRO:HD2	2.12	0.50
1:K:258:ALA:O	1:K:372:ALA:HB2	2.12	0.50
1:K:394:ILE:HD13	1:K:421:LEU:HD21	1.93	0.50
2:k:1103:SER:O	2:k:1107:GLU:HG3	2.11	0.50
1:M:258:ALA:O	1:M:372:ALA:HB2	2.12	0.50
1:M:394:ILE:HD13	1:M:421:LEU:HD21	1.93	0.50
1:M:442:LEU:CD1	1:M:448:LEU:HD21	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:660:TYR:HB2	1:M:707:ILE:HG13	1.93	0.50
1:O:645:GLU:HG3	1:O:697:ASN:HB2	1.94	0.50
2:o:1040:ARG:HA	2:o:1041:ARG:HH11	1.75	0.50
2:o:1178:VAL:HG12	2:o:1179:LEU:HG	1.94	0.50
1:A:464:PHE:N	1:A:464:PHE:HD2	2.09	0.50
1:A:502:GLU:O	1:A:503:ARG:HG2	2.12	0.50
1:A:505:ILE:N	1:A:505:ILE:HD12	2.27	0.50
2:a:1044:ASP:HB3	2:a:1095:LEU:HD11	1.92	0.50
1:B:326:ASN:HB3	1:B:485:GLN:HE22	1.77	0.50
1:B:521:MET:HA	1:B:521:MET:CE	2.36	0.50
1:C:239:VAL:HG23	1:C:240:THR:N	2.27	0.50
1:C:481:LEU:HD23	1:C:481:LEU:O	2.11	0.50
1:D:505:ILE:HD11	1:D:530:ALA:CB	2.39	0.50
1:E:338:LEU:HD21	1:E:661:ASP:CG	2.37	0.50
1:E:515:GLU:HG3	1:E:518:LYS:HD2	1.94	0.50
1:F:234:SER:O	1:F:235:ASP:C	2.52	0.50
1:F:514:LEU:C	1:F:516:THR:H	2.18	0.50
1:G:258:ALA:O	1:G:372:ALA:HB2	2.12	0.50
1:G:326:ASN:HB3	1:G:485:GLN:HE22	1.76	0.50
1:G:367:VAL:O	1:G:367:VAL:HG13	2.10	0.50
1:H:394:ILE:HD13	1:H:421:LEU:HD21	1.93	0.50
1:H:502:GLU:O	1:H:503:ARG:HG2	2.12	0.50
1:H:515:GLU:HG3	1:H:518:LYS:HD2	1.94	0.50
1:I:341:ALA:HB1	2:i:1155:VAL:HG23	1.94	0.50
1:I:724:ILE:O	1:I:726:ILE:HD13	2.11	0.50
1:J:239:VAL:HG23	1:J:240:THR:N	2.27	0.50
1:J:384:VAL:HG12	1:J:385:LEU:N	2.26	0.50
1:K:239:VAL:HG23	1:K:240:THR:N	2.27	0.50
1:M:384:VAL:HG12	1:M:385:LEU:N	2.26	0.50
1:M:505:ILE:HD12	1:M:505:ILE:N	2.27	0.50
1:O:639:LEU:HD22	1:O:639:LEU:N	2.27	0.50
1:A:199:LYS:CG	1:F:189:VAL:HG13	2.41	0.49
1:A:316:ILE:HD12	1:B:496:LYS:CB	2.41	0.49
1:A:341:ALA:HB1	2:a:1155:VAL:HG23	1.94	0.49
1:A:515:GLU:HG3	1:A:518:LYS:HD2	1.93	0.49
1:B:459:ILE:HG22	1:B:460:ALA:N	2.27	0.49
1:B:639:LEU:HD22	1:B:639:LEU:N	2.27	0.49
1:D:481:LEU:HD23	1:D:481:LEU:O	2.11	0.49
1:D:505:ILE:N	1:D:505:ILE:HD12	2.27	0.49
1:E:326:ASN:HB3	1:E:485:GLN:HE22	1.76	0.49
2:e:1056:ALA:CA	2:e:1114:PRO:HB2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:231:ASP:HB2	1:F:232:PRO:HD2	1.95	0.49
1:F:270:ILE:HG23	1:F:270:ILE:O	2.11	0.49
1:F:502:GLU:O	1:F:503:ARG:HG2	2.12	0.49
2:f:1178:VAL:HG12	2:f:1179:LEU:HG	1.94	0.49
2:h:1103:SER:O	2:h:1107:GLU:HG3	2.11	0.49
2:h:1120:ILE:HG23	2:h:1121:HIS:N	2.27	0.49
1:J:464:PHE:N	1:J:464:PHE:HD2	2.09	0.49
1:J:639:LEU:HD22	1:J:639:LEU:N	2.27	0.49
2:j:1047:PHE:CE2	2:j:1069:LEU:HD23	2.47	0.49
1:L:341:ALA:HB1	2:l:1155:VAL:HG23	1.94	0.49
1:L:660:TYR:HB2	1:L:707:ILE:HG13	1.93	0.49
1:M:639:LEU:HD22	1:M:639:LEU:N	2.27	0.49
1:O:258:ALA:O	1:O:372:ALA:HB2	2.12	0.49
1:O:724:ILE:O	1:O:726:ILE:HD13	2.11	0.49
1:A:204:SER:OG	1:A:205:PRO:HD2	2.11	0.49
1:A:384:VAL:HG12	1:A:385:LEU:N	2.26	0.49
1:A:398:GLU:C	1:A:400:GLN:N	2.69	0.49
1:A:481:LEU:HD23	1:A:481:LEU:O	2.11	0.49
1:B:187:LEU:HD21	1:B:205:PRO:HD3	1.93	0.49
1:B:398:GLU:C	1:B:400:GLN:N	2.69	0.49
1:E:226:TRP:CH2	1:E:234:SER:HB3	2.48	0.49
1:E:481:LEU:HD23	1:E:481:LEU:O	2.11	0.49
1:F:384:VAL:HG12	1:F:385:LEU:N	2.26	0.49
1:G:341:ALA:HB1	2:g:1155:VAL:HG23	1.94	0.49
1:H:367:VAL:HG13	1:H:367:VAL:O	2.10	0.49
1:H:384:VAL:HG12	1:H:385:LEU:N	2.26	0.49
1:I:239:VAL:HG23	1:I:240:THR:N	2.27	0.49
2:j:1061:GLU:HA	2:j:1064:ASN:HD22	1.77	0.49
1:K:204:SER:OG	1:K:205:PRO:HD2	2.11	0.49
1:K:639:LEU:HD22	1:K:639:LEU:N	2.27	0.49
1:L:310:HIS:HD1	1:L:310:HIS:H	1.61	0.49
1:L:459:ILE:HG22	1:L:460:ALA:N	2.27	0.49
1:M:204:SER:OG	1:M:205:PRO:HD2	2.11	0.49
1:O:185:ASP:O	1:O:186:SER:C	2.53	0.49
1:A:226:TRP:CH2	1:A:234:SER:HB3	2.48	0.49
1:A:512:ASP:OD1	1:B:245:LYS:HE3	2.13	0.49
1:A:639:LEU:HD22	1:A:639:LEU:N	2.27	0.49
1:B:479:GLU:HG2	1:C:471:VAL:CG2	2.41	0.49
1:D:231:ASP:HB2	1:D:232:PRO:HD2	1.95	0.49
1:D:341:ALA:HB1	2:d:1155:VAL:HG23	1.94	0.49
1:G:239:VAL:HG23	1:G:240:THR:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:505:ILE:HD12	1:H:505:ILE:N	2.27	0.49
1:H:660:TYR:HB2	1:H:707:ILE:HG13	1.93	0.49
1:I:231:ASP:HB2	1:I:232:PRO:HD2	1.95	0.49
1:I:394:ILE:HD13	1:I:421:LEU:HD21	1.93	0.49
1:J:341:ALA:HB1	2:j:1155:VAL:HG23	1.94	0.49
1:K:189:VAL:HG13	1:L:199:LYS:CG	2.43	0.49
1:K:271:LEU:HB2	1:K:289:ILE:CG1	2.42	0.49
1:K:515:GLU:OE1	1:L:245:LYS:HE2	2.12	0.49
2:k:1178:VAL:HG12	2:k:1179:LEU:HG	1.94	0.49
1:L:239:VAL:HG23	1:L:240:THR:N	2.27	0.49
1:L:326:ASN:HB3	1:L:485:GLN:HE22	1.77	0.49
1:L:480:VAL:HG21	1:M:468:ARG:HG3	1.94	0.49
2:l:1047:PHE:CE2	2:l:1069:LEU:HD23	2.47	0.49
2:l:1120:ILE:HG23	2:l:1121:HIS:N	2.27	0.49
1:M:239:VAL:HG23	1:M:240:THR:N	2.27	0.49
1:M:345:THR:HG22	1:M:347:ALA:HB3	1.92	0.49
2:m:1061:GLU:HA	2:m:1064:ASN:HD22	1.77	0.49
1:O:239:VAL:HG23	1:O:240:THR:N	2.27	0.49
1:O:607:ALA:H	1:O:638:ILE:CD1	2.20	0.49
1:A:521:MET:CE	1:A:522:THR:H	2.26	0.49
1:B:515:GLU:HG3	1:B:518:LYS:HD2	1.93	0.49
1:C:226:TRP:CH2	1:C:234:SER:HB3	2.48	0.49
1:D:258:ALA:O	1:D:372:ALA:HB2	2.12	0.49
1:E:459:ILE:HG22	1:E:460:ALA:N	2.27	0.49
1:F:271:LEU:HB2	1:F:289:ILE:CG1	2.42	0.49
1:G:226:TRP:CH2	1:G:234:SER:HB3	2.48	0.49
1:G:271:LEU:HB2	1:G:289:ILE:CG1	2.42	0.49
1:G:468:ARG:NH2	1:M:232:PRO:HA	2.22	0.49
1:H:258:ALA:O	1:H:372:ALA:HB2	2.12	0.49
2:i:1047:PHE:CE2	2:i:1069:LEU:HD23	2.47	0.49
2:i:1120:ILE:HG23	2:i:1121:HIS:N	2.27	0.49
1:J:521:MET:CE	1:J:522:THR:H	2.26	0.49
1:K:326:ASN:HB3	1:K:485:GLN:HE22	1.76	0.49
1:M:502:GLU:O	1:M:503:ARG:HG2	2.12	0.49
1:O:204:SER:OG	1:O:205:PRO:HD2	2.11	0.49
1:O:326:ASN:HB3	1:O:485:GLN:HE22	1.77	0.49
2:o:1047:PHE:CE2	2:o:1069:LEU:HD23	2.47	0.49
2:o:1061:GLU:HA	2:o:1064:ASN:HD22	1.77	0.49
2:o:1120:ILE:HG23	2:o:1121:HIS:N	2.27	0.49
1:A:187:LEU:HD21	1:A:205:PRO:HD3	1.93	0.49
1:A:394:ILE:HD13	1:A:421:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:459:ILE:HG22	1:A:460:ALA:N	2.27	0.49
2:a:1043:PHE:HD2	2:a:1142:ILE:HD11	1.78	0.49
1:B:239:VAL:HG23	1:B:240:THR:N	2.27	0.49
1:B:377:VAL:CG1	1:B:398:GLU:HG3	2.41	0.49
1:C:464:PHE:N	1:C:464:PHE:HD2	2.09	0.49
2:c:1047:PHE:CE2	2:c:1069:LEU:HD23	2.47	0.49
1:D:380:THR:CG2	1:D:395:LYS:HD2	2.43	0.49
1:D:639:LEU:N	1:D:639:LEU:HD22	2.27	0.49
2:d:1178:VAL:HG12	2:d:1179:LEU:HG	1.94	0.49
1:E:239:VAL:HG23	1:E:240:THR:N	2.27	0.49
1:F:258:ALA:O	1:F:372:ALA:HB2	2.12	0.49
1:F:394:ILE:HD13	1:F:421:LEU:HD21	1.93	0.49
1:F:459:ILE:HG12	1:F:477:TRP:NE1	2.28	0.49
1:G:592:ARG:HD2	1:G:598:TYR:CD2	2.48	0.49
1:H:226:TRP:CH2	1:H:234:SER:HB3	2.48	0.49
1:H:231:ASP:HB2	1:H:232:PRO:HD2	1.95	0.49
1:H:271:LEU:HB2	1:H:289:ILE:CG1	2.42	0.49
1:H:316:ILE:CD1	1:I:496:LYS:HD3	2.42	0.49
2:h:1178:VAL:HG12	2:h:1179:LEU:HG	1.94	0.49
1:I:384:VAL:HG12	1:I:385:LEU:N	2.26	0.49
1:J:380:THR:CG2	1:J:395:LYS:HD2	2.43	0.49
1:J:459:ILE:HG12	1:J:477:TRP:NE1	2.28	0.49
1:J:479:GLU:OE1	1:K:470:ARG:HG3	2.12	0.49
2:j:1120:ILE:HG23	2:j:1121:HIS:N	2.27	0.49
1:K:380:THR:CG2	1:K:395:LYS:HD2	2.43	0.49
1:L:258:ALA:O	1:L:372:ALA:HB2	2.12	0.49
1:L:410:TYR:CG	1:L:414:LYS:HE2	2.48	0.49
1:L:647:GLU:HA	1:L:652:LEU:O	2.13	0.49
1:M:645:GLU:HG3	1:M:697:ASN:HB2	1.94	0.49
1:O:380:THR:CG2	1:O:395:LYS:HD2	2.43	0.49
1:O:505:ILE:HD11	1:O:530:ALA:CB	2.39	0.49
1:O:521:MET:CE	1:O:522:THR:H	2.26	0.49
1:O:647:GLU:HA	1:O:652:LEU:O	2.13	0.49
1:B:271:LEU:CD1	1:B:289:ILE:HD11	2.36	0.49
1:B:502:GLU:O	1:B:503:ARG:HG2	2.12	0.49
2:b:1120:ILE:HG23	2:b:1121:HIS:N	2.27	0.49
1:C:592:ARG:HD2	1:C:598:TYR:CD2	2.48	0.49
2:d:1061:GLU:HA	2:d:1064:ASN:HD22	1.77	0.49
1:E:341:ALA:HB1	2:e:1155:VAL:HG23	1.94	0.49
1:F:226:TRP:CH2	1:F:234:SER:HB3	2.48	0.49
1:F:239:VAL:HG23	1:F:240:THR:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:592:ARG:HD2	1:F:598:TYR:CD2	2.48	0.49
1:F:647:GLU:HA	1:F:652:LEU:O	2.13	0.49
1:G:189:VAL:CG1	1:H:199:LYS:CG	2.90	0.49
1:G:380:THR:CG2	1:G:395:LYS:HD2	2.43	0.49
2:g:1120:ILE:HG23	2:g:1121:HIS:N	2.27	0.49
1:H:316:ILE:HD12	1:I:496:LYS:HD3	1.94	0.49
1:H:410:TYR:CG	1:H:414:LYS:HE2	2.48	0.49
1:I:660:TYR:HB2	1:I:707:ILE:HG13	1.93	0.49
2:i:1178:VAL:HG12	2:i:1179:LEU:HG	1.94	0.49
1:J:502:GLU:O	1:J:503:ARG:HG2	2.12	0.49
1:J:592:ARG:HD2	1:J:598:TYR:CD2	2.48	0.49
1:K:521:MET:CE	1:K:522:THR:H	2.26	0.49
1:L:231:ASP:HB2	1:L:232:PRO:HD2	1.95	0.49
1:L:639:LEU:N	1:L:639:LEU:HD22	2.27	0.49
1:M:411:TYR:CD2	1:M:412:PRO:HD3	2.48	0.49
2:m:1058:ASN:HB3	2:m:1061:GLU:OE1	2.13	0.49
1:A:231:ASP:HB2	1:A:232:PRO:HD2	1.95	0.49
2:a:1120:ILE:HG23	2:a:1121:HIS:N	2.27	0.49
1:B:226:TRP:CH2	1:B:234:SER:HB3	2.48	0.49
1:B:341:ALA:HB1	2:b:1155:VAL:HG23	1.94	0.49
1:C:377:VAL:CG1	1:C:398:GLU:HG3	2.41	0.49
1:C:410:TYR:CG	1:C:414:LYS:HE2	2.48	0.49
1:C:502:GLU:O	1:C:503:ARG:HG2	2.12	0.49
1:D:384:VAL:HG12	1:D:385:LEU:N	2.26	0.49
1:D:410:TYR:HD1	1:D:410:TYR:H	1.61	0.49
1:D:521:MET:CE	1:D:522:THR:H	2.26	0.49
1:E:231:ASP:HB2	1:E:232:PRO:HD2	1.95	0.49
1:E:410:TYR:CG	1:E:414:LYS:HE2	2.48	0.49
1:E:592:ARG:HD2	1:E:598:TYR:CD2	2.48	0.49
2:e:1178:VAL:HG12	2:e:1179:LEU:HG	1.94	0.49
1:F:326:ASN:HB3	1:F:485:GLN:HE22	1.77	0.49
1:F:380:THR:CG2	1:F:395:LYS:HD2	2.43	0.49
1:F:505:ILE:HD12	1:F:505:ILE:N	2.27	0.49
1:G:411:TYR:CD2	1:G:412:PRO:HD3	2.48	0.49
2:g:1047:PHE:CE2	2:g:1069:LEU:HD23	2.47	0.49
1:H:411:TYR:CD2	1:H:412:PRO:HD3	2.48	0.49
1:I:318:GLY:HA2	1:J:410:TYR:HE1	1.75	0.49
1:I:505:ILE:HD12	1:I:505:ILE:N	2.27	0.49
2:i:1043:PHE:HD2	2:i:1142:ILE:HD11	1.78	0.49
2:i:1203:PHE:HB3	2:i:1207:LYS:HG3	1.95	0.49
1:J:410:TYR:CG	1:J:414:LYS:HE2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:592:ARG:HD2	1:K:598:TYR:CD2	2.48	0.49
2:k:1047:PHE:CE2	2:k:1069:LEU:HD23	2.47	0.49
2:k:1120:ILE:HG23	2:k:1121:HIS:N	2.27	0.49
1:L:479:GLU:OE1	1:M:470:ARG:HA	2.12	0.49
1:L:505:ILE:N	1:L:505:ILE:HD12	2.27	0.49
1:M:410:TYR:CG	1:M:414:LYS:HE2	2.48	0.49
2:m:1178:VAL:HG12	2:m:1179:LEU:HG	1.94	0.49
1:O:502:GLU:O	1:O:503:ARG:HG2	2.12	0.49
2:a:1058:ASN:HB3	2:a:1061:GLU:OE1	2.13	0.49
1:B:410:TYR:HD1	1:B:410:TYR:H	1.61	0.49
1:B:459:ILE:HG12	1:B:477:TRP:NE1	2.28	0.49
2:b:1047:PHE:CE2	2:b:1069:LEU:HD23	2.47	0.49
2:c:1043:PHE:HD2	2:c:1142:ILE:HD11	1.78	0.49
1:D:592:ARG:HD2	1:D:598:TYR:CD2	2.48	0.49
1:E:380:THR:CG2	1:E:395:LYS:HD2	2.43	0.49
1:F:691:ASN:OD1	1:F:693:ASN:HB2	2.13	0.49
1:G:483:GLN:HE22	1:H:245:LYS:H	1.60	0.49
1:G:639:LEU:HD22	1:G:639:LEU:N	2.27	0.49
1:G:647:GLU:HA	1:G:652:LEU:O	2.13	0.49
1:H:239:VAL:HG23	1:H:240:THR:N	2.27	0.49
1:H:647:GLU:HA	1:H:652:LEU:O	2.13	0.49
2:h:1043:PHE:HD2	2:h:1142:ILE:HD11	1.78	0.49
1:I:226:TRP:CH2	1:I:234:SER:HB3	2.48	0.49
1:I:459:ILE:HG12	1:I:477:TRP:NE1	2.28	0.49
1:I:647:GLU:HA	1:I:652:LEU:O	2.13	0.49
1:K:442:LEU:CD1	1:K:448:LEU:HD21	2.41	0.49
1:L:338:LEU:HD21	1:L:661:ASP:CG	2.37	0.49
1:L:502:GLU:O	1:L:503:ARG:HG2	2.12	0.49
1:M:592:ARG:HD2	1:M:598:TYR:CD2	2.48	0.49
1:O:273:LYS:N	1:O:350:MET:HE3	2.28	0.49
1:O:459:ILE:HG22	1:O:460:ALA:N	2.27	0.49
1:O:505:ILE:N	1:O:505:ILE:HD12	2.27	0.49
1:A:410:TYR:CG	1:A:414:LYS:HE2	2.48	0.49
1:A:670:GLN:CD	1:F:305:GLY:HA2	2.38	0.49
1:B:410:TYR:CG	1:B:414:LYS:HE2	2.48	0.49
1:C:200:ARG:N	1:C:200:ARG:CD	2.72	0.49
1:C:271:LEU:CD1	1:C:289:ILE:HD11	2.36	0.49
2:c:1178:VAL:HG12	2:c:1179:LEU:HG	1.94	0.49
1:E:273:LYS:N	1:E:350:MET:HE3	2.28	0.49
1:E:403:GLN:HE21	1:E:403:GLN:N	1.99	0.49
1:E:639:LEU:HD22	1:E:639:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:691:ASN:OD1	1:E:693:ASN:HB2	2.13	0.49
2:f:1043:PHE:HD2	2:f:1142:ILE:HD11	1.78	0.49
1:G:310:HIS:HD2	1:G:312:SER:HB2	1.78	0.49
1:G:338:LEU:HD21	1:G:661:ASP:CG	2.37	0.49
1:G:410:TYR:HD1	1:G:410:TYR:H	1.61	0.49
1:H:479:GLU:HG2	1:I:471:VAL:HG23	1.95	0.49
2:h:1047:PHE:CE2	2:h:1069:LEU:HD23	2.47	0.49
1:I:194:VAL:HG13	1:I:202:PHE:O	2.13	0.49
1:I:227:SER:O	1:I:230:SER:N	2.39	0.49
1:I:459:ILE:HG22	1:I:460:ALA:N	2.27	0.49
1:I:691:ASN:OD1	1:I:693:ASN:HB2	2.13	0.49
1:J:226:TRP:CH2	1:J:234:SER:HB3	2.48	0.49
1:J:377:VAL:CG1	1:J:398:GLU:HG3	2.41	0.49
1:J:585:ALA:O	1:J:586:LYS:HB2	2.13	0.49
1:J:642:TYR:HD1	1:J:700:ALA:HA	1.78	0.49
1:K:391:LEU:O	1:K:392:ALA:HB2	2.13	0.49
1:K:505:ILE:HD12	1:K:505:ILE:N	2.27	0.49
1:K:585:ALA:O	1:K:586:LYS:HB2	2.13	0.49
2:l:1043:PHE:HD2	2:l:1142:ILE:HD11	1.78	0.49
1:M:642:TYR:HD1	1:M:700:ALA:HA	1.78	0.49
2:o:1058:ASN:HB3	2:o:1061:GLU:OE1	2.13	0.49
1:A:411:TYR:CD2	1:A:412:PRO:HD3	2.48	0.49
2:a:1047:PHE:CD2	2:a:1066:VAL:HG13	2.48	0.49
1:B:231:ASP:HB2	1:B:232:PRO:HD2	1.95	0.49
1:B:380:THR:CG2	1:B:395:LYS:HD2	2.43	0.49
1:B:585:ALA:O	1:B:586:LYS:HB2	2.13	0.49
2:b:1058:ASN:HB3	2:b:1061:GLU:OE1	2.13	0.49
1:C:341:ALA:HB1	2:c:1155:VAL:HG23	1.94	0.49
1:C:380:THR:CG2	1:C:395:LYS:HD2	2.43	0.49
1:C:645:GLU:HG3	1:C:697:ASN:HB2	1.94	0.49
1:C:647:GLU:HA	1:C:652:LEU:O	2.13	0.49
1:D:226:TRP:CH2	1:D:234:SER:HB3	2.48	0.49
1:D:502:GLU:O	1:D:503:ARG:HG2	2.12	0.49
2:d:1047:PHE:CD2	2:d:1066:VAL:HG13	2.48	0.49
2:d:1120:ILE:HG23	2:d:1121:HIS:N	2.27	0.49
2:d:1203:PHE:HB3	2:d:1207:LYS:HG3	1.95	0.49
1:F:411:TYR:CD2	1:F:412:PRO:HD3	2.48	0.49
2:f:1047:PHE:CD2	2:f:1066:VAL:HG13	2.48	0.49
1:G:183:ILE:HG12	1:G:203:LEU:CD2	2.43	0.49
1:G:391:LEU:O	1:G:392:ALA:HB2	2.13	0.49
2:h:1058:ASN:HB3	2:h:1061:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:306:ASN:HA	1:J:669:ARG:HB3	1.95	0.49
1:I:411:TYR:CD2	1:I:412:PRO:HD3	2.48	0.49
1:J:194:VAL:HG13	1:J:202:PHE:O	2.13	0.49
1:J:391:LEU:O	1:J:392:ALA:HB2	2.13	0.49
1:K:226:TRP:CH2	1:K:234:SER:HB3	2.48	0.49
1:K:647:GLU:HA	1:K:652:LEU:O	2.13	0.49
2:k:1047:PHE:CD2	2:k:1066:VAL:HG13	2.48	0.49
1:L:226:TRP:CH2	1:L:234:SER:HB3	2.48	0.49
1:L:592:ARG:HD2	1:L:598:TYR:CD2	2.48	0.49
1:L:629:LEU:HD12	1:L:629:LEU:N	2.28	0.49
2:l:1061:GLU:HA	2:l:1064:ASN:HD22	1.77	0.49
2:l:1178:VAL:HG12	2:l:1179:LEU:HG	1.94	0.49
1:M:226:TRP:CH2	1:M:234:SER:HB3	2.48	0.49
1:M:629:LEU:HD12	1:M:629:LEU:N	2.28	0.49
2:m:1120:ILE:HG23	2:m:1121:HIS:N	2.27	0.49
1:A:592:ARG:HD2	1:A:598:TYR:CD2	2.48	0.48
1:A:629:LEU:HD12	1:A:629:LEU:N	2.28	0.48
1:B:310:HIS:HD2	1:B:312:SER:HB2	1.78	0.48
2:b:1061:GLU:HA	2:b:1064:ASN:HD22	1.77	0.48
1:C:231:ASP:HB2	1:C:232:PRO:HD2	1.95	0.48
1:C:310:HIS:HD2	1:C:312:SER:HB2	1.78	0.48
1:C:459:ILE:HG22	1:C:460:ALA:N	2.27	0.48
1:C:691:ASN:OD1	1:C:693:ASN:HB2	2.13	0.48
2:d:1047:PHE:CE2	2:d:1069:LEU:HD23	2.47	0.48
1:E:459:ILE:HG12	1:E:477:TRP:NE1	2.28	0.48
1:F:194:VAL:HG13	1:F:202:PHE:O	2.13	0.48
2:f:1047:PHE:CE2	2:f:1069:LEU:HD23	2.48	0.48
1:G:336:HIS:HB3	1:G:708:ILE:HG22	1.95	0.48
1:G:459:ILE:HG22	1:G:460:ALA:N	2.27	0.48
1:G:502:GLU:O	1:G:503:ARG:HG2	2.12	0.48
1:G:515:GLU:HG3	1:G:518:LYS:HD2	1.94	0.48
1:G:629:LEU:HD12	1:G:629:LEU:N	2.28	0.48
2:g:1178:VAL:HG12	2:g:1179:LEU:HG	1.94	0.48
1:H:310:HIS:H	1:H:310:HIS:HD1	1.61	0.48
1:H:629:LEU:HD12	1:H:629:LEU:N	2.28	0.48
1:I:316:ILE:HD12	1:J:496:LYS:CD	2.41	0.48
1:I:639:LEU:HD22	1:I:639:LEU:N	2.27	0.48
1:J:310:HIS:HD2	1:J:312:SER:HB2	1.78	0.48
1:J:505:ILE:N	1:J:505:ILE:HD12	2.27	0.48
1:K:459:ILE:HG22	1:K:460:ALA:N	2.28	0.48
1:K:521:MET:HA	1:K:521:MET:CE	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:1058:ASN:HB3	2:k:1061:GLU:OE1	2.13	0.48
2:k:1203:PHE:HB3	2:k:1207:LYS:HG3	1.95	0.48
1:L:310:HIS:HD2	1:L:312:SER:HB2	1.78	0.48
2:l:1058:ASN:HB3	2:l:1061:GLU:OE1	2.13	0.48
2:l:1203:PHE:HB3	2:l:1207:LYS:HG3	1.95	0.48
1:M:459:ILE:HG12	1:M:477:TRP:NE1	2.28	0.48
1:M:691:ASN:OD1	1:M:693:ASN:HB2	2.13	0.48
2:m:1043:PHE:HD2	2:m:1142:ILE:HD11	1.78	0.48
2:m:1047:PHE:CD2	2:m:1066:VAL:HG13	2.48	0.48
2:m:1203:PHE:HB3	2:m:1207:LYS:HG3	1.95	0.48
1:O:194:VAL:HG13	1:O:202:PHE:O	2.13	0.48
1:O:200:ARG:N	1:O:200:ARG:CD	2.71	0.48
1:B:391:LEU:O	1:B:392:ALA:HB2	2.13	0.48
1:B:411:TYR:CD2	1:B:412:PRO:HD3	2.48	0.48
1:C:273:LYS:N	1:C:350:MET:HE3	2.28	0.48
1:C:505:ILE:HD12	1:C:505:ILE:N	2.27	0.48
1:D:273:LYS:N	1:D:350:MET:HE3	2.28	0.48
1:D:629:LEU:HD12	1:D:629:LEU:N	2.28	0.48
1:E:657:ASN:HB2	1:E:662:MET:CB	2.44	0.48
2:e:1047:PHE:CE2	2:e:1069:LEU:HD23	2.47	0.48
1:F:410:TYR:HD1	1:F:410:TYR:H	1.61	0.48
2:g:1203:PHE:HB3	2:g:1207:LYS:HG3	1.95	0.48
1:H:341:ALA:HB1	2:h:1155:VAL:HG23	1.94	0.48
1:I:502:GLU:O	1:I:503:ARG:HG2	2.12	0.48
1:J:258:ALA:O	1:J:372:ALA:HB2	2.12	0.48
1:J:271:LEU:CD2	1:J:360:LEU:HD13	2.44	0.48
1:K:411:TYR:CD2	1:K:412:PRO:HD3	2.48	0.48
1:K:459:ILE:HG12	1:K:477:TRP:NE1	2.28	0.48
1:K:642:TYR:HD1	1:K:700:ALA:HA	1.78	0.48
1:K:648:ASP:HB2	1:K:652:LEU:HD12	1.96	0.48
1:K:691:ASN:OD1	1:K:693:ASN:HB2	2.13	0.48
2:k:1043:PHE:HD2	2:k:1142:ILE:HD11	1.78	0.48
1:L:380:THR:CG2	1:L:395:LYS:HD2	2.43	0.48
1:M:647:GLU:HA	1:M:652:LEU:O	2.13	0.48
2:m:1047:PHE:CE2	2:m:1069:LEU:HD23	2.47	0.48
1:O:691:ASN:OD1	1:O:693:ASN:HB2	2.13	0.48
2:o:1047:PHE:CD2	2:o:1066:VAL:HG13	2.48	0.48
1:A:239:VAL:HG23	1:A:240:THR:N	2.27	0.48
1:A:336:HIS:HB3	1:A:708:ILE:HG22	1.95	0.48
1:A:647:GLU:HA	1:A:652:LEU:O	2.13	0.48
1:A:657:ASN:HB2	1:A:662:MET:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:200:ARG:N	1:B:200:ARG:CD	2.72	0.48
1:B:229:ALA:O	1:B:230:SER:CB	2.62	0.48
1:B:592:ARG:HD2	1:B:598:TYR:CD2	2.48	0.48
1:B:629:LEU:HD12	1:B:629:LEU:N	2.28	0.48
1:B:645:GLU:HG3	1:B:697:ASN:HB2	1.94	0.48
1:B:647:GLU:HA	1:B:652:LEU:O	2.13	0.48
1:C:459:ILE:HG12	1:C:477:TRP:NE1	2.28	0.48
1:C:464:PHE:CD2	1:C:465:GLU:N	2.82	0.48
2:c:1120:ILE:HG23	2:c:1121:HIS:N	2.27	0.48
1:D:410:TYR:CG	1:D:414:LYS:HE2	2.48	0.48
1:E:194:VAL:HG13	1:E:202:PHE:O	2.13	0.48
1:E:411:TYR:CD2	1:E:412:PRO:HD3	2.48	0.48
1:E:464:PHE:CD2	1:E:465:GLU:N	2.82	0.48
1:E:642:TYR:HD1	1:E:700:ALA:HA	1.78	0.48
1:E:647:GLU:HA	1:E:652:LEU:O	2.13	0.48
1:G:231:ASP:HB2	1:G:232:PRO:HD2	1.95	0.48
1:G:273:LYS:N	1:G:350:MET:HE3	2.28	0.48
1:G:298:THR:HB	1:G:601:ASN:HB3	1.96	0.48
1:H:410:TYR:H	1:H:410:TYR:HD1	1.61	0.48
1:I:648:ASP:HB2	1:I:652:LEU:HD12	1.96	0.48
1:J:647:GLU:HA	1:J:652:LEU:O	2.13	0.48
1:K:410:TYR:CG	1:K:414:LYS:HE2	2.48	0.48
1:K:502:GLU:O	1:K:503:ARG:HG2	2.12	0.48
1:L:410:TYR:HD1	1:L:410:TYR:H	1.61	0.48
1:M:336:HIS:HB3	1:M:708:ILE:HG22	1.95	0.48
1:M:380:THR:CG2	1:M:395:LYS:HD2	2.43	0.48
1:M:521:MET:CE	1:M:522:THR:H	2.26	0.48
1:O:271:LEU:CD2	1:O:360:LEU:HD13	2.44	0.48
1:O:592:ARG:HD2	1:O:598:TYR:CD2	2.48	0.48
2:o:1183:GLN:NE2	2:o:1196:VAL:HG11	2.29	0.48
2:o:1203:PHE:HB3	2:o:1207:LYS:HG3	1.95	0.48
1:A:521:MET:HA	1:A:521:MET:CE	2.37	0.48
1:A:642:TYR:HD1	1:A:700:ALA:HA	1.78	0.48
1:B:194:VAL:HG13	1:B:202:PHE:O	2.13	0.48
1:C:229:ALA:O	1:C:230:SER:CB	2.62	0.48
1:D:194:VAL:HG13	1:D:202:PHE:O	2.13	0.48
1:D:647:GLU:HA	1:D:652:LEU:O	2.13	0.48
2:d:1043:PHE:HD2	2:d:1142:ILE:HD11	1.78	0.48
2:d:1058:ASN:HB3	2:d:1061:GLU:OE1	2.13	0.48
1:E:229:ALA:O	1:E:230:SER:CB	2.62	0.48
1:E:502:GLU:O	1:E:503:ARG:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:391:LEU:O	1:F:392:ALA:HB2	2.13	0.48
1:F:459:ILE:HG22	1:F:460:ALA:N	2.27	0.48
1:F:521:MET:CE	1:F:522:THR:H	2.26	0.48
1:F:585:ALA:O	1:F:586:LYS:HB2	2.13	0.48
1:H:380:THR:CG2	1:H:395:LYS:HD2	2.43	0.48
1:H:592:ARG:HD2	1:H:598:TYR:CD2	2.48	0.48
2:h:1183:GLN:NE2	2:h:1196:VAL:HG11	2.29	0.48
1:I:200:ARG:N	1:I:200:ARG:CD	2.71	0.48
1:I:310:HIS:HD2	1:I:312:SER:HB2	1.78	0.48
1:I:410:TYR:CG	1:I:414:LYS:HE2	2.48	0.48
1:I:521:MET:HA	1:I:521:MET:CE	2.37	0.48
1:I:585:ALA:O	1:I:586:LYS:HB2	2.13	0.48
1:I:629:LEU:HD12	1:I:629:LEU:N	2.28	0.48
2:j:1047:PHE:CD2	2:j:1066:VAL:HG13	2.48	0.48
1:K:178:ARG:HH12	1:L:200:ARG:HB3	1.78	0.48
1:K:227:SER:O	1:K:230:SER:N	2.39	0.48
1:K:271:LEU:CD2	1:K:360:LEU:HD13	2.44	0.48
1:L:298:THR:HB	1:L:601:ASN:HB3	1.96	0.48
1:L:521:MET:HA	1:L:521:MET:CE	2.36	0.48
1:M:310:HIS:HD2	1:M:312:SER:HB2	1.78	0.48
1:M:341:ALA:HB1	2:m:1155:VAL:HG23	1.94	0.48
1:O:226:TRP:CH2	1:O:234:SER:HB3	2.48	0.48
1:O:391:LEU:O	1:O:392:ALA:HB2	2.13	0.48
1:O:410:TYR:CG	1:O:414:LYS:HE2	2.48	0.48
1:A:185:ASP:O	1:A:189:VAL:HG23	2.14	0.48
1:A:310:HIS:HD2	1:A:312:SER:HB2	1.78	0.48
1:C:699:TYR:CD2	1:C:723:LYS:HG3	2.49	0.48
2:c:1154:LEU:HB3	2:c:1158:TYR:CD2	2.49	0.48
1:D:411:TYR:CD2	1:D:412:PRO:HD3	2.48	0.48
1:D:414:LYS:HG3	1:O:319:SER:N	2.29	0.48
1:D:468:ARG:HH11	1:D:468:ARG:HG3	1.79	0.48
1:D:657:ASN:HB2	1:D:662:MET:CB	2.44	0.48
1:E:298:THR:HB	1:E:601:ASN:HB3	1.96	0.48
1:E:336:HIS:HB3	1:E:708:ILE:HG22	1.96	0.48
1:E:505:ILE:HD12	1:E:505:ILE:N	2.27	0.48
2:e:1058:ASN:HB3	2:e:1061:GLU:OE1	2.13	0.48
1:F:273:LYS:N	1:F:350:MET:HE3	2.28	0.48
1:F:298:THR:HB	1:F:601:ASN:HB3	1.96	0.48
1:F:336:HIS:HB3	1:F:708:ILE:HG22	1.96	0.48
1:G:410:TYR:CG	1:G:414:LYS:HE2	2.48	0.48
1:G:442:LEU:CD1	1:G:448:LEU:HD21	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:521:MET:CE	1:G:522:THR:H	2.26	0.48
2:g:1058:ASN:HB3	2:g:1061:GLU:OE1	2.13	0.48
1:H:459:ILE:HG22	1:H:460:ALA:N	2.27	0.48
1:H:585:ALA:O	1:H:586:LYS:HB2	2.13	0.48
1:I:410:TYR:HD1	1:I:410:TYR:H	1.61	0.48
1:J:411:TYR:CD2	1:J:412:PRO:HD3	2.48	0.48
2:k:1061:GLU:HA	2:k:1064:ASN:HD22	1.77	0.48
1:L:411:TYR:CD2	1:L:412:PRO:HD3	2.48	0.48
1:L:459:ILE:HG12	1:L:477:TRP:NE1	2.28	0.48
1:L:648:ASP:HB2	1:L:652:LEU:HD12	1.96	0.48
1:M:298:THR:HB	1:M:601:ASN:HB3	1.96	0.48
1:M:699:TYR:CD2	1:M:723:LYS:HG3	2.49	0.48
2:m:1154:LEU:HB3	2:m:1158:TYR:CD2	2.49	0.48
1:O:207:ILE:HG21	1:O:210:ILE:HG12	1.96	0.48
1:A:229:ALA:O	1:A:230:SER:CB	2.62	0.48
1:A:298:THR:HB	1:A:601:ASN:HB3	1.96	0.48
2:a:1047:PHE:CE2	2:a:1069:LEU:HD23	2.47	0.48
2:a:1178:VAL:HG12	2:a:1179:LEU:HG	1.94	0.48
1:C:411:TYR:CD2	1:C:412:PRO:HD3	2.48	0.48
2:c:1047:PHE:CD2	2:c:1066:VAL:HG13	2.48	0.48
2:c:1058:ASN:HB3	2:c:1061:GLU:OE1	2.13	0.48
1:D:239:VAL:HG23	1:D:240:THR:N	2.27	0.48
1:D:391:LEU:O	1:D:392:ALA:HB2	2.13	0.48
1:D:642:TYR:HD1	1:D:700:ALA:HA	1.78	0.48
2:d:1056:ALA:CA	2:d:1114:PRO:HB2	2.33	0.48
1:E:391:LEU:O	1:E:392:ALA:HB2	2.13	0.48
2:e:1047:PHE:CD2	2:e:1066:VAL:HG13	2.48	0.48
2:e:1120:ILE:HG23	2:e:1121:HIS:N	2.27	0.48
1:F:521:MET:HA	1:F:521:MET:CE	2.37	0.48
2:f:1120:ILE:HG23	2:f:1121:HIS:N	2.27	0.48
1:G:207:ILE:HG21	1:G:210:ILE:HG12	1.96	0.48
1:G:316:ILE:HD11	1:H:496:LYS:CB	2.35	0.48
1:G:459:ILE:HG12	1:G:477:TRP:NE1	2.28	0.48
1:G:464:PHE:CD2	1:G:465:GLU:N	2.82	0.48
1:G:468:ARG:HH11	1:G:468:ARG:HG3	1.79	0.48
1:G:642:TYR:HD1	1:G:700:ALA:HA	1.78	0.48
1:H:273:LYS:N	1:H:350:MET:HE3	2.28	0.48
1:H:310:HIS:HD2	1:H:312:SER:HB2	1.78	0.48
1:H:642:TYR:HD1	1:H:700:ALA:HA	1.78	0.48
2:h:1154:LEU:HB3	2:h:1158:TYR:CD2	2.49	0.48
1:I:336:HIS:HB3	1:I:708:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:657:ASN:HB2	1:I:662:MET:CB	2.44	0.48
2:i:1058:ASN:HB3	2:i:1061:GLU:OE1	2.13	0.48
2:i:1183:GLN:NE2	2:i:1196:VAL:HG11	2.29	0.48
1:J:410:TYR:HD1	1:J:410:TYR:H	1.61	0.48
1:K:699:TYR:CD2	1:K:723:LYS:HG3	2.49	0.48
1:L:391:LEU:O	1:L:392:ALA:HB2	2.13	0.48
1:L:657:ASN:HB2	1:L:662:MET:CB	2.44	0.48
1:M:207:ILE:HG21	1:M:210:ILE:HG12	1.96	0.48
1:M:271:LEU:CD2	1:M:360:LEU:HD13	2.44	0.48
1:M:459:ILE:HG22	1:M:460:ALA:N	2.27	0.48
1:M:536:PRO:C	1:M:537:ASN:HD22	2.22	0.48
1:O:185:ASP:O	1:O:189:VAL:HG23	2.14	0.48
1:O:341:ALA:HB1	2:o:1155:VAL:HG23	1.94	0.48
1:O:468:ARG:HH11	1:O:468:ARG:HG3	1.79	0.48
2:o:1056:ALA:CA	2:o:1114:PRO:HB2	2.33	0.48
1:A:410:TYR:HD1	1:A:410:TYR:H	1.61	0.48
1:A:459:ILE:HG12	1:A:477:TRP:NE1	2.28	0.48
1:A:585:ALA:O	1:A:586:LYS:HB2	2.13	0.48
1:A:699:TYR:CD2	1:A:723:LYS:HG3	2.49	0.48
2:b:1183:GLN:NE2	2:b:1196:VAL:HG11	2.29	0.48
1:C:394:ILE:CG2	1:C:421:LEU:HD22	2.39	0.48
1:C:521:MET:CE	1:C:522:THR:H	2.26	0.48
1:C:536:PRO:C	1:C:537:ASN:HD22	2.22	0.48
1:C:642:TYR:HD1	1:C:700:ALA:HA	1.78	0.48
1:C:657:ASN:HB2	1:C:662:MET:CB	2.43	0.48
2:c:1203:PHE:HB3	2:c:1207:LYS:HG3	1.95	0.48
1:D:207:ILE:HG21	1:D:210:ILE:HG12	1.96	0.48
1:D:229:ALA:O	1:D:230:SER:CB	2.62	0.48
1:D:271:LEU:CD2	1:D:360:LEU:HD13	2.44	0.48
1:D:336:HIS:HB3	1:D:708:ILE:HG22	1.95	0.48
1:D:410:TYR:HE1	1:O:318:GLY:HA2	1.74	0.48
1:D:691:ASN:OD1	1:D:693:ASN:HB2	2.13	0.48
2:f:1203:PHE:HB3	2:f:1207:LYS:HG3	1.95	0.48
1:G:536:PRO:C	1:G:537:ASN:HD22	2.22	0.48
1:H:185:ASP:O	1:H:189:VAL:HG23	2.14	0.48
1:H:442:LEU:CD1	1:H:448:LEU:HD21	2.41	0.48
1:H:521:MET:HA	1:H:521:MET:CE	2.36	0.48
2:h:1047:PHE:CD2	2:h:1066:VAL:HG13	2.48	0.48
1:I:391:LEU:O	1:I:392:ALA:HB2	2.13	0.48
1:J:183:ILE:HG12	1:J:203:LEU:CD2	2.43	0.48
1:K:273:LYS:N	1:K:350:MET:HE3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:341:ALA:HB1	2:k:1155:VAL:HG23	1.94	0.48
1:K:578:LEU:C	1:K:580:LYS:H	2.22	0.48
1:L:194:VAL:HG13	1:L:202:PHE:O	2.13	0.48
1:L:336:HIS:HB3	1:L:708:ILE:HG22	1.95	0.48
1:L:536:PRO:C	1:L:537:ASN:HD22	2.22	0.48
1:L:642:TYR:HD1	1:L:700:ALA:HA	1.78	0.48
1:M:391:LEU:O	1:M:392:ALA:HB2	2.13	0.48
1:M:585:ALA:O	1:M:586:LYS:HB2	2.13	0.48
2:m:1056:ALA:CA	2:m:1114:PRO:HB2	2.33	0.48
1:O:657:ASN:HB2	1:O:662:MET:CB	2.43	0.48
1:A:691:ASN:OD1	1:A:693:ASN:HB2	2.13	0.48
1:B:271:LEU:CD2	1:B:360:LEU:HD13	2.44	0.48
1:C:207:ILE:HG21	1:C:210:ILE:HG12	1.96	0.48
2:c:1085:PHE:CD1	2:c:1085:PHE:C	2.92	0.48
2:c:1183:GLN:NE2	2:c:1196:VAL:HG11	2.29	0.48
1:D:298:THR:HB	1:D:601:ASN:HB3	1.96	0.48
1:D:310:HIS:HD2	1:D:312:SER:HB2	1.78	0.48
1:D:464:PHE:CD2	1:D:465:GLU:N	2.82	0.48
1:E:310:HIS:HD2	1:E:312:SER:HB2	1.78	0.48
1:E:385:LEU:O	1:E:389:GLN:HB2	2.14	0.48
1:E:629:LEU:HD12	1:E:629:LEU:N	2.28	0.48
1:F:377:VAL:HG22	1:F:398:GLU:HB3	1.96	0.48
1:H:459:ILE:HG12	1:H:477:TRP:NE1	2.28	0.48
1:H:468:ARG:HH11	1:H:468:ARG:HG3	1.79	0.48
1:I:273:LYS:N	1:I:350:MET:HE3	2.28	0.48
1:I:464:PHE:CD2	1:I:465:GLU:N	2.82	0.48
2:i:1047:PHE:CD2	2:i:1066:VAL:HG13	2.48	0.48
1:J:207:ILE:HG21	1:J:210:ILE:HG12	1.96	0.48
1:J:231:ASP:HB2	1:J:232:PRO:HD2	1.95	0.48
1:J:480:VAL:HG21	1:K:468:ARG:HD3	1.95	0.48
1:J:699:TYR:CD2	1:J:723:LYS:HG3	2.49	0.48
1:J:718:THR:HB	1:J:721:ILE:HD12	1.96	0.48
1:K:629:LEU:HD12	1:K:629:LEU:N	2.28	0.48
1:M:273:LYS:N	1:M:350:MET:HE3	2.28	0.48
1:O:718:THR:HB	1:O:721:ILE:HD12	1.96	0.48
1:A:464:PHE:CD2	1:A:465:GLU:N	2.82	0.48
1:A:607:ALA:H	1:A:638:ILE:CD1	2.20	0.48
1:B:367:VAL:HG23	1:B:410:TYR:HA	1.96	0.48
2:b:1085:PHE:CD1	2:b:1085:PHE:C	2.92	0.48
2:b:1154:LEU:HB3	2:b:1158:TYR:CD2	2.49	0.48
2:b:1178:VAL:HG12	2:b:1179:LEU:HG	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:1084:VAL:CG2	2:c:1092:ILE:HD11	2.44	0.48
2:c:1146:LEU:CD1	2:c:1176:VAL:HB	2.42	0.48
1:D:403:GLN:HE21	1:D:403:GLN:N	1.99	0.48
1:D:585:ALA:O	1:D:586:LYS:HB2	2.13	0.48
1:D:699:TYR:CD2	1:D:723:LYS:HG3	2.49	0.48
1:E:645:GLU:HG3	1:E:697:ASN:HB2	1.94	0.48
2:e:1085:PHE:C	2:e:1085:PHE:CD1	2.92	0.48
1:F:227:SER:O	1:F:230:SER:N	2.40	0.48
1:F:410:TYR:CG	1:F:414:LYS:HE2	2.48	0.48
1:G:185:ASP:O	1:G:189:VAL:HG23	2.14	0.48
1:G:194:VAL:HG13	1:G:202:PHE:O	2.13	0.48
1:I:380:THR:CG2	1:I:395:LYS:HD2	2.43	0.48
1:I:385:LEU:O	1:I:389:GLN:HB2	2.14	0.48
2:i:1084:VAL:CG2	2:i:1092:ILE:HD11	2.44	0.48
1:K:316:ILE:HD13	1:L:496:LYS:HD3	1.96	0.48
1:K:410:TYR:HD1	1:K:410:TYR:H	1.61	0.48
1:L:273:LYS:N	1:L:350:MET:HE3	2.28	0.48
1:M:194:VAL:HG13	1:M:202:PHE:O	2.13	0.48
1:M:385:LEU:O	1:M:389:GLN:HB2	2.14	0.48
1:O:183:ILE:HG12	1:O:203:LEU:CD2	2.43	0.48
1:O:227:SER:O	1:O:230:SER:N	2.39	0.48
1:O:367:VAL:HG23	1:O:410:TYR:HA	1.96	0.48
1:A:183:ILE:HG12	1:A:203:LEU:CD2	2.43	0.48
1:A:271:LEU:CD2	1:A:360:LEU:HD13	2.44	0.48
1:A:360:LEU:HD12	1:A:361:ASN:N	2.29	0.48
1:A:367:VAL:HG23	1:A:410:TYR:HA	1.96	0.48
1:A:380:THR:CG2	1:A:395:LYS:HD2	2.43	0.48
1:A:385:LEU:O	1:A:389:GLN:HB2	2.14	0.48
1:A:648:ASP:HB2	1:A:652:LEU:HD12	1.96	0.48
1:B:377:VAL:HG22	1:B:398:GLU:HB3	1.96	0.48
2:b:1043:PHE:HD2	2:b:1142:ILE:HD11	1.78	0.48
2:b:1203:PHE:HB3	2:b:1207:LYS:HG3	1.95	0.48
1:C:194:VAL:HG13	1:C:202:PHE:O	2.13	0.48
1:C:271:LEU:CD2	1:C:360:LEU:HD13	2.43	0.48
2:c:1099:ARG:HD2	2:c:1099:ARG:N	2.29	0.48
1:D:271:LEU:CD1	1:D:289:ILE:HD11	2.36	0.48
1:D:385:LEU:O	1:D:389:GLN:HB2	2.14	0.48
1:E:410:TYR:H	1:E:410:TYR:HD1	1.61	0.48
2:e:1203:PHE:HB3	2:e:1207:LYS:HG3	1.95	0.48
1:F:385:LEU:O	1:F:389:GLN:HB2	2.14	0.48
1:H:194:VAL:HG13	1:H:202:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:229:ALA:O	1:H:230:SER:CB	2.62	0.48
1:H:377:VAL:HG22	1:H:398:GLU:HB3	1.96	0.48
1:H:385:LEU:O	1:H:389:GLN:HB2	2.14	0.48
1:H:521:MET:CE	1:H:522:THR:H	2.26	0.48
1:H:578:LEU:C	1:H:580:LYS:H	2.22	0.48
1:H:657:ASN:HB2	1:H:662:MET:CB	2.43	0.48
2:h:1049:LEU:N	2:h:1083:ILE:O	2.43	0.48
1:I:521:MET:CE	1:I:522:THR:H	2.26	0.48
1:I:592:ARG:HD2	1:I:598:TYR:CD2	2.48	0.48
1:J:367:VAL:HG23	1:J:410:TYR:HA	1.96	0.48
1:J:691:ASN:OD1	1:J:693:ASN:HB2	2.13	0.48
2:j:1154:LEU:HB3	2:j:1158:TYR:CD2	2.49	0.48
1:K:194:VAL:HG13	1:K:202:PHE:O	2.13	0.48
1:K:367:VAL:HG23	1:K:410:TYR:HA	1.96	0.48
1:K:567:ALA:C	1:K:569:LEU:H	2.22	0.48
1:K:657:ASN:HB2	1:K:662:MET:CB	2.43	0.48
1:L:271:LEU:CD2	1:L:360:LEU:HD13	2.44	0.48
1:L:385:LEU:O	1:L:389:GLN:HB2	2.14	0.48
1:L:585:ALA:O	1:L:586:LYS:HB2	2.13	0.48
1:L:699:TYR:CD2	1:L:723:LYS:HG3	2.49	0.48
2:l:1047:PHE:CD2	2:l:1066:VAL:HG13	2.48	0.48
1:A:273:LYS:N	1:A:350:MET:HE3	2.28	0.47
1:A:483:GLN:HE22	1:B:245:LYS:H	1.62	0.47
1:B:273:LYS:N	1:B:350:MET:HE3	2.28	0.47
1:B:464:PHE:CD2	1:B:465:GLU:N	2.82	0.47
1:B:481:LEU:N	1:B:482:PRO:CD	2.75	0.47
1:B:567:ALA:C	1:B:569:LEU:H	2.22	0.47
2:b:1056:ALA:CA	2:b:1114:PRO:HB2	2.33	0.47
1:C:185:ASP:O	1:C:189:VAL:HG23	2.14	0.47
1:C:360:LEU:HD12	1:C:361:ASN:N	2.29	0.47
1:C:367:VAL:HG23	1:C:410:TYR:HA	1.96	0.47
1:C:377:VAL:HG22	1:C:398:GLU:HB3	1.96	0.47
1:C:401:LEU:HD22	1:C:411:TYR:CZ	2.49	0.47
1:C:567:ALA:C	1:C:569:LEU:H	2.22	0.47
1:D:183:ILE:HG12	1:D:203:LEU:CD2	2.43	0.47
1:D:185:ASP:O	1:D:189:VAL:HG23	2.14	0.47
1:D:401:LEU:HD22	1:D:411:TYR:CZ	2.49	0.47
1:D:459:ILE:HG12	1:D:477:TRP:NE1	2.28	0.47
2:d:1085:PHE:CD1	2:d:1085:PHE:C	2.92	0.47
1:F:229:ALA:O	1:F:230:SER:CB	2.62	0.47
2:f:1058:ASN:HB3	2:f:1061:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:271:LEU:CD2	1:G:360:LEU:HD13	2.44	0.47
1:G:401:LEU:HD22	1:G:411:TYR:CZ	2.49	0.47
1:G:691:ASN:OD1	1:G:693:ASN:HB2	2.13	0.47
1:G:718:THR:HB	1:G:721:ILE:HD12	1.96	0.47
2:g:1047:PHE:CD2	2:g:1066:VAL:HG13	2.48	0.47
2:g:1060:ILE:HG23	2:g:1061:GLU:N	2.29	0.47
1:H:271:LEU:CD2	1:H:360:LEU:HD13	2.44	0.47
1:H:464:PHE:CD2	1:H:465:GLU:N	2.82	0.47
1:H:691:ASN:OD1	1:H:693:ASN:HB2	2.13	0.47
1:I:185:ASP:O	1:I:189:VAL:HG23	2.14	0.47
1:J:185:ASP:O	1:J:189:VAL:HG23	2.14	0.47
1:J:459:ILE:HG22	1:J:460:ALA:N	2.27	0.47
1:J:536:PRO:C	1:J:537:ASN:HD22	2.22	0.47
1:J:567:ALA:C	1:J:569:LEU:H	2.22	0.47
1:J:629:LEU:HD12	1:J:629:LEU:N	2.28	0.47
2:j:1084:VAL:CG2	2:j:1092:ILE:HD11	2.44	0.47
1:K:468:ARG:HH11	1:K:468:ARG:HG3	1.79	0.47
2:k:1154:LEU:HB3	2:k:1158:TYR:CD2	2.49	0.47
2:k:1183:GLN:NE2	2:k:1196:VAL:HG11	2.29	0.47
1:L:207:ILE:HG21	1:L:210:ILE:HG12	1.96	0.47
1:L:401:LEU:HD22	1:L:411:TYR:CZ	2.49	0.47
2:m:1085:PHE:C	2:m:1085:PHE:CD1	2.92	0.47
1:O:231:ASP:HB2	1:O:232:PRO:HD2	1.95	0.47
1:O:410:TYR:HD1	1:O:410:TYR:H	1.61	0.47
1:O:459:ILE:HG12	1:O:477:TRP:NE1	2.28	0.47
1:O:642:TYR:HD1	1:O:700:ALA:HA	1.78	0.47
1:A:194:VAL:HG13	1:A:202:PHE:O	2.13	0.47
1:A:341:ALA:CB	2:a:1153:GLY:HA3	2.42	0.47
1:A:391:LEU:O	1:A:392:ALA:HB2	2.13	0.47
1:B:185:ASP:O	1:B:189:VAL:HG23	2.14	0.47
1:B:360:LEU:HD12	1:B:361:ASN:N	2.29	0.47
1:B:521:MET:CE	1:B:522:THR:H	2.26	0.47
1:B:691:ASN:OD1	1:B:693:ASN:HB2	2.13	0.47
1:B:699:TYR:CD2	1:B:723:LYS:HG3	2.49	0.47
2:b:1047:PHE:CD2	2:b:1066:VAL:HG13	2.48	0.47
1:C:345:THR:O	1:C:346:TRP:C	2.58	0.47
1:C:609:GLU:HA	1:C:724:ILE:HD13	1.96	0.47
1:C:648:ASP:HB2	1:C:652:LEU:HD12	1.96	0.47
1:D:718:THR:HB	1:D:721:ILE:HD12	1.96	0.47
1:E:521:MET:CE	1:E:522:THR:H	2.26	0.47
2:e:1043:PHE:HD2	2:e:1142:ILE:HD11	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:ILE:HG21	1:F:210:ILE:HG12	1.96	0.47
1:F:629:LEU:HD12	1:F:629:LEU:N	2.28	0.47
1:F:642:TYR:HD1	1:F:700:ALA:HA	1.78	0.47
1:G:585:ALA:O	1:G:586:LYS:HB2	2.13	0.47
1:G:648:ASP:HB2	1:G:652:LEU:HD12	1.96	0.47
2:g:1099:ARG:HD2	2:g:1099:ARG:N	2.29	0.47
1:H:207:ILE:HG21	1:H:210:ILE:HG12	1.96	0.47
1:H:367:VAL:HG23	1:H:410:TYR:HA	1.96	0.47
1:H:699:TYR:CD2	1:H:723:LYS:HG3	2.49	0.47
2:h:1099:ARG:HD2	2:h:1099:ARG:N	2.29	0.47
2:h:1203:PHE:HB3	2:h:1207:LYS:HG3	1.95	0.47
1:I:271:LEU:CD2	1:I:360:LEU:HD13	2.44	0.47
1:I:367:VAL:HG23	1:I:410:TYR:HA	1.96	0.47
2:i:1154:LEU:HB3	2:i:1158:TYR:CD2	2.49	0.47
1:J:273:LYS:N	1:J:350:MET:HE3	2.28	0.47
1:J:468:ARG:HH11	1:J:468:ARG:HG3	1.79	0.47
1:J:578:LEU:C	1:J:580:LYS:H	2.22	0.47
2:j:1183:GLN:NE2	2:j:1196:VAL:HG11	2.29	0.47
1:K:336:HIS:HB3	1:K:708:ILE:HG22	1.95	0.47
1:K:385:LEU:O	1:K:389:GLN:HB2	2.14	0.47
1:K:401:LEU:HD22	1:K:411:TYR:CZ	2.49	0.47
2:k:1060:ILE:HG23	2:k:1061:GLU:N	2.29	0.47
1:M:229:ALA:O	1:M:230:SER:CB	2.62	0.47
1:M:648:ASP:HB2	1:M:652:LEU:HD12	1.96	0.47
2:m:1183:GLN:NE2	2:m:1196:VAL:HG11	2.29	0.47
1:O:377:VAL:HG22	1:O:398:GLU:HB3	1.96	0.47
1:O:699:TYR:CD2	1:O:723:LYS:HG3	2.49	0.47
2:o:1043:PHE:HD2	2:o:1142:ILE:HD11	1.78	0.47
1:A:517:THR:HG23	1:B:199:LYS:O	2.15	0.47
2:a:1060:ILE:HG23	2:a:1061:GLU:N	2.29	0.47
2:a:1183:GLN:NE2	2:a:1196:VAL:HG11	2.29	0.47
1:B:468:ARG:HH11	1:B:468:ARG:HG3	1.79	0.47
1:C:385:LEU:O	1:C:389:GLN:HB2	2.14	0.47
1:D:459:ILE:HG22	1:D:460:ALA:N	2.27	0.47
1:D:609:GLU:HA	1:D:724:ILE:HD13	1.96	0.47
1:E:468:ARG:HH11	1:E:468:ARG:HG3	1.79	0.47
1:E:699:TYR:CD2	1:E:723:LYS:HG3	2.49	0.47
2:e:1060:ILE:HG23	2:e:1061:GLU:N	2.29	0.47
2:e:1183:GLN:NE2	2:e:1196:VAL:HG11	2.29	0.47
1:F:271:LEU:CD2	1:F:360:LEU:HD13	2.44	0.47
1:G:699:TYR:CD2	1:G:723:LYS:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:298:THR:HB	1:H:601:ASN:HB3	1.96	0.47
1:I:401:LEU:HD22	1:I:411:TYR:CZ	2.49	0.47
1:I:642:TYR:HD1	1:I:700:ALA:HA	1.78	0.47
2:i:1085:PHE:CD1	2:i:1085:PHE:C	2.92	0.47
1:J:401:LEU:HD22	1:J:411:TYR:CZ	2.49	0.47
1:K:229:ALA:O	1:K:230:SER:CB	2.62	0.47
1:K:411:TYR:O	1:K:413:SER:N	2.48	0.47
1:L:345:THR:O	1:L:346:TRP:C	2.58	0.47
1:L:464:PHE:CD2	1:L:465:GLU:N	2.82	0.47
2:l:1099:ARG:HD2	2:l:1099:ARG:N	2.29	0.47
2:l:1128:ASN:OD1	2:l:1166:SER:HA	2.15	0.47
2:l:1183:GLN:NE2	2:l:1196:VAL:HG11	2.29	0.47
1:M:185:ASP:O	1:M:189:VAL:HG23	2.14	0.47
1:M:231:ASP:HB2	1:M:232:PRO:HD2	1.94	0.47
1:M:411:TYR:O	1:M:413:SER:N	2.48	0.47
1:M:718:THR:HB	1:M:721:ILE:HD12	1.96	0.47
1:O:567:ALA:C	1:O:569:LEU:H	2.22	0.47
2:o:1084:VAL:CG2	2:o:1092:ILE:HD11	2.44	0.47
1:A:401:LEU:HD22	1:A:411:TYR:CZ	2.49	0.47
1:A:573:ASN:OD1	1:A:575:TYR:HB2	2.15	0.47
2:a:1154:LEU:HB3	2:a:1158:TYR:CD2	2.49	0.47
1:B:401:LEU:HD22	1:B:411:TYR:CZ	2.49	0.47
1:B:648:ASP:HB2	1:B:652:LEU:HD12	1.96	0.47
1:C:583:LEU:HA	1:C:587:MET:SD	2.55	0.47
2:c:1060:ILE:HG23	2:c:1061:GLU:N	2.29	0.47
2:d:1060:ILE:HG23	2:d:1061:GLU:N	2.29	0.47
1:E:271:LEU:CD2	1:E:360:LEU:HD13	2.44	0.47
1:E:345:THR:O	1:E:346:TRP:C	2.58	0.47
1:E:394:ILE:CG2	1:E:421:LEU:HD22	2.39	0.47
1:E:648:ASP:HB2	1:E:652:LEU:HD12	1.96	0.47
2:e:1128:ASN:OD1	2:e:1166:SER:HA	2.15	0.47
1:F:401:LEU:HD22	1:F:411:TYR:CZ	2.49	0.47
1:F:699:TYR:CD2	1:F:723:LYS:HG3	2.49	0.47
2:f:1055:VAL:HG13	2:f:1148:ASP:OD2	2.15	0.47
2:f:1183:GLN:NE2	2:f:1196:VAL:HG11	2.29	0.47
1:G:224:GLU:OE2	1:H:201:THR:N	2.46	0.47
1:G:224:GLU:OE2	1:H:201:THR:OG1	2.32	0.47
1:H:183:ILE:HG12	1:H:203:LEU:CD2	2.43	0.47
1:H:391:LEU:O	1:H:392:ALA:HB2	2.13	0.47
1:H:609:GLU:HA	1:H:724:ILE:HD13	1.96	0.47
1:H:648:ASP:HB2	1:H:652:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:ALA:O	1:J:230:SER:CB	2.62	0.47
1:J:479:GLU:OE1	1:K:470:ARG:HA	2.15	0.47
1:J:657:ASN:HB2	1:J:662:MET:CB	2.44	0.47
1:K:207:ILE:HG21	1:K:210:ILE:HG12	1.96	0.47
1:K:377:VAL:HG22	1:K:398:GLU:HB3	1.96	0.47
2:l:1085:PHE:CD1	2:l:1085:PHE:C	2.92	0.47
1:M:583:LEU:HA	1:M:587:MET:SD	2.55	0.47
1:O:411:TYR:CD2	1:O:412:PRO:HD3	2.48	0.47
1:O:629:LEU:HD12	1:O:629:LEU:N	2.28	0.47
2:o:1062:ILE:O	2:o:1066:VAL:HG23	2.15	0.47
1:A:578:LEU:C	1:A:580:LYS:H	2.22	0.47
1:A:688:TYR:CE2	2:a:1114:PRO:HD2	2.50	0.47
1:B:336:HIS:HB3	1:B:708:ILE:HG22	1.95	0.47
1:B:609:GLU:HA	1:B:724:ILE:HD13	1.97	0.47
1:B:657:ASN:HB2	1:B:662:MET:CB	2.43	0.47
2:b:1060:ILE:HG23	2:b:1061:GLU:N	2.29	0.47
2:b:1128:ASN:OD1	2:b:1166:SER:HA	2.15	0.47
1:C:183:ILE:HG12	1:C:203:LEU:CD2	2.43	0.47
1:C:410:TYR:HD1	1:C:410:TYR:H	1.61	0.47
1:D:367:VAL:HG23	1:D:410:TYR:HA	1.96	0.47
2:d:1099:ARG:HD2	2:d:1099:ARG:N	2.29	0.47
1:E:185:ASP:O	1:E:189:VAL:HG23	2.14	0.47
1:E:377:VAL:HG22	1:E:398:GLU:HB3	1.96	0.47
1:E:567:ALA:C	1:E:569:LEU:H	2.22	0.47
1:E:609:GLU:HA	1:E:724:ILE:HD13	1.97	0.47
1:F:468:ARG:HH11	1:F:468:ARG:HG3	1.79	0.47
1:G:229:ALA:O	1:G:230:SER:CB	2.62	0.47
1:G:345:THR:O	1:G:346:TRP:C	2.58	0.47
1:G:609:GLU:HA	1:G:724:ILE:HD13	1.97	0.47
2:g:1043:PHE:HD2	2:g:1142:ILE:HD11	1.78	0.47
2:g:1154:LEU:HB3	2:g:1158:TYR:CD2	2.49	0.47
1:I:411:TYR:O	1:I:413:SER:N	2.48	0.47
1:I:442:LEU:CD1	1:I:448:LEU:HD21	2.41	0.47
1:J:609:GLU:HA	1:J:724:ILE:HD13	1.97	0.47
2:j:1058:ASN:HB3	2:j:1061:GLU:OE1	2.13	0.47
2:j:1128:ASN:OD1	2:j:1166:SER:HA	2.15	0.47
1:L:185:ASP:O	1:L:189:VAL:HG23	2.14	0.47
1:L:521:MET:CE	1:L:522:THR:H	2.26	0.47
1:L:567:ALA:C	1:L:569:LEU:H	2.22	0.47
1:L:609:GLU:HA	1:L:724:ILE:HD13	1.96	0.47
1:L:647:GLU:OE1	1:L:695:LYS:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:691:ASN:OD1	1:L:693:ASN:HB2	2.13	0.47
2:l:1060:ILE:HG23	2:l:1061:GLU:N	2.30	0.47
2:l:1084:VAL:CG2	2:l:1092:ILE:HD11	2.44	0.47
2:l:1154:LEU:HB3	2:l:1158:TYR:CD2	2.49	0.47
1:O:385:LEU:O	1:O:389:GLN:HB2	2.14	0.47
1:O:394:ILE:CG2	1:O:421:LEU:HD22	2.39	0.47
1:O:573:ASN:OD1	1:O:575:TYR:HB2	2.15	0.47
1:O:583:LEU:HA	1:O:587:MET:SD	2.55	0.47
2:o:1060:ILE:HG23	2:o:1061:GLU:N	2.29	0.47
1:A:481:LEU:N	1:A:482:PRO:CD	2.74	0.47
1:A:567:ALA:C	1:A:569:LEU:H	2.22	0.47
2:a:1055:VAL:HG13	2:a:1148:ASP:OD2	2.15	0.47
1:C:250:GLU:OE1	1:C:250:GLU:N	2.48	0.47
1:C:468:ARG:HH11	1:C:468:ARG:HG3	1.79	0.47
1:C:573:ASN:OD1	1:C:575:TYR:HB2	2.15	0.47
1:C:585:ALA:O	1:C:586:LYS:HB2	2.13	0.47
1:C:629:LEU:HD12	1:C:629:LEU:N	2.28	0.47
1:D:316:ILE:C	1:D:318:GLY:H	2.23	0.47
2:d:1055:VAL:HG13	2:d:1148:ASP:OD2	2.15	0.47
2:d:1062:ILE:O	2:d:1066:VAL:HG23	2.15	0.47
1:E:200:ARG:N	1:E:200:ARG:CD	2.71	0.47
1:E:207:ILE:HG21	1:E:210:ILE:HG12	1.96	0.47
1:E:310:HIS:CD2	1:E:312:SER:HB2	2.50	0.47
1:E:401:LEU:HD22	1:E:411:TYR:CZ	2.49	0.47
1:E:585:ALA:O	1:E:586:LYS:HB2	2.13	0.47
2:e:1154:LEU:HB3	2:e:1158:TYR:CD2	2.49	0.47
1:F:310:HIS:CD2	1:F:312:SER:HB2	2.50	0.47
1:F:310:HIS:HD2	1:F:312:SER:HB2	1.78	0.47
1:F:411:TYR:CB	1:F:412:PRO:CD	2.93	0.47
1:F:567:ALA:C	1:F:569:LEU:H	2.22	0.47
1:G:308:GLU:CD	1:H:667:SER:HB3	2.38	0.47
1:G:316:ILE:C	1:G:318:GLY:H	2.23	0.47
1:G:411:TYR:CB	1:G:412:PRO:CD	2.93	0.47
1:G:670:GLN:O	1:M:314:PHE:CZ	2.67	0.47
2:g:1055:VAL:HG13	2:g:1148:ASP:OD2	2.15	0.47
2:g:1062:ILE:O	2:g:1066:VAL:HG23	2.15	0.47
1:H:401:LEU:HD22	1:H:411:TYR:CZ	2.49	0.47
2:h:1060:ILE:HG23	2:h:1061:GLU:N	2.29	0.47
1:I:207:ILE:HG21	1:I:210:ILE:HG12	1.96	0.47
2:i:1062:ILE:O	2:i:1066:VAL:HG23	2.15	0.47
1:J:411:TYR:CB	1:J:412:PRO:CD	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:310:HIS:HD2	1:K:312:SER:HB2	1.78	0.47
1:K:345:THR:O	1:K:346:TRP:C	2.58	0.47
1:K:411:TYR:CB	1:K:412:PRO:CD	2.93	0.47
1:K:423:ALA:C	1:K:424:GLN:CG	2.86	0.47
1:K:459:ILE:HG12	1:K:477:TRP:CE2	2.50	0.47
1:K:573:ASN:OD1	1:K:575:TYR:HB2	2.15	0.47
1:K:583:LEU:HA	1:K:587:MET:SD	2.55	0.47
1:K:609:GLU:HA	1:K:724:ILE:HD13	1.96	0.47
2:l:1055:VAL:HG13	2:l:1148:ASP:OD2	2.15	0.47
2:l:1062:ILE:O	2:l:1066:VAL:HG23	2.15	0.47
1:M:459:ILE:HG12	1:M:477:TRP:CE2	2.50	0.47
2:m:1128:ASN:OD1	2:m:1166:SER:HA	2.15	0.47
1:O:401:LEU:HD22	1:O:411:TYR:CZ	2.49	0.47
2:o:1154:LEU:HB3	2:o:1158:TYR:CD2	2.49	0.47
1:A:316:ILE:C	1:A:318:GLY:H	2.23	0.47
1:A:377:VAL:HG22	1:A:398:GLU:HB3	1.96	0.47
1:A:609:GLU:HA	1:A:724:ILE:HD13	1.96	0.47
1:B:310:HIS:CD2	1:B:312:SER:HB2	2.50	0.47
1:B:385:LEU:O	1:B:389:GLN:HB2	2.14	0.47
1:B:411:TYR:O	1:B:413:SER:N	2.48	0.47
1:B:434:MET:HA	1:B:438:GLN:OE1	2.15	0.47
1:B:458:ASN:HD22	1:B:476:ASN:HD22	1.63	0.47
1:B:536:PRO:C	1:B:537:ASN:HD22	2.22	0.47
1:B:573:ASN:OD1	1:B:575:TYR:HB2	2.15	0.47
1:B:642:TYR:HD1	1:B:700:ALA:HA	1.78	0.47
1:B:718:THR:HB	1:B:721:ILE:HD12	1.96	0.47
2:b:1084:VAL:CG2	2:b:1092:ILE:HD11	2.44	0.47
1:C:391:LEU:O	1:C:392:ALA:HB2	2.13	0.47
1:C:636:ARG:HH11	1:C:636:ARG:HG3	1.80	0.47
2:c:1128:ASN:OD1	2:c:1166:SER:HA	2.15	0.47
1:D:459:ILE:HG12	1:D:477:TRP:CE2	2.50	0.47
1:D:536:PRO:C	1:D:537:ASN:HD22	2.22	0.47
1:D:647:GLU:OE1	1:D:695:LYS:HD3	2.15	0.47
2:d:1128:ASN:OD1	2:d:1166:SER:HA	2.15	0.47
1:E:183:ILE:HG22	1:E:188:GLU:HB2	1.97	0.47
1:E:536:PRO:C	1:E:537:ASN:HD22	2.22	0.47
2:e:1099:ARG:HD2	2:e:1099:ARG:N	2.29	0.47
1:F:183:ILE:HG12	1:F:203:LEU:CD2	2.43	0.47
1:F:464:PHE:CD2	1:F:465:GLU:N	2.82	0.47
1:F:536:PRO:C	1:F:537:ASN:HD22	2.22	0.47
1:F:609:GLU:HA	1:F:724:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:648:ASP:HB2	1:F:652:LEU:HD12	1.96	0.47
1:F:688:TYR:CE2	2:f:1114:PRO:HD2	2.50	0.47
2:f:1084:VAL:CG2	2:f:1092:ILE:HD11	2.44	0.47
2:f:1085:PHE:CD1	2:f:1085:PHE:C	2.92	0.47
2:f:1099:ARG:HD2	2:f:1099:ARG:N	2.29	0.47
1:G:367:VAL:HG23	1:G:410:TYR:HA	1.96	0.47
1:G:516:THR:CG2	1:H:196:VAL:HG21	2.44	0.47
1:G:688:TYR:CE2	2:g:1114:PRO:HD2	2.50	0.47
2:g:1084:VAL:CG2	2:g:1092:ILE:HD11	2.44	0.47
2:g:1183:GLN:NE2	2:g:1196:VAL:HG11	2.29	0.47
1:H:413:SER:O	1:H:415:ASN:N	2.48	0.47
1:H:567:ALA:C	1:H:569:LEU:H	2.22	0.47
1:H:573:ASN:OD1	1:H:575:TYR:HB2	2.15	0.47
2:h:1085:PHE:C	2:h:1085:PHE:CD1	2.92	0.47
1:I:271:LEU:CD1	1:I:289:ILE:HD11	2.36	0.47
1:I:377:VAL:HG22	1:I:398:GLU:HB3	1.96	0.47
1:I:394:ILE:CG2	1:I:421:LEU:HD22	2.39	0.47
1:I:411:TYR:CB	1:I:412:PRO:CD	2.93	0.47
1:I:413:SER:O	1:I:415:ASN:N	2.48	0.47
1:I:583:LEU:HA	1:I:587:MET:SD	2.55	0.47
1:I:699:TYR:CD2	1:I:723:LYS:HG3	2.49	0.47
2:i:1128:ASN:OD1	2:i:1166:SER:HA	2.15	0.47
1:J:316:ILE:C	1:J:318:GLY:H	2.23	0.47
1:J:341:ALA:CB	2:j:1153:GLY:HA3	2.42	0.47
1:J:385:LEU:O	1:J:389:GLN:HB2	2.14	0.47
1:J:413:SER:O	1:J:415:ASN:N	2.48	0.47
1:J:521:MET:HA	1:J:521:MET:CE	2.36	0.47
2:j:1043:PHE:HD2	2:j:1142:ILE:HD11	1.78	0.47
2:j:1049:LEU:N	2:j:1083:ILE:O	2.43	0.47
2:j:1060:ILE:HG23	2:j:1061:GLU:N	2.29	0.47
1:K:185:ASP:O	1:K:189:VAL:HG23	2.14	0.47
1:K:231:ASP:HB2	1:K:232:PRO:HD2	1.95	0.47
1:K:310:HIS:CD2	1:K:312:SER:HB2	2.50	0.47
1:K:316:ILE:C	1:K:318:GLY:H	2.23	0.47
1:K:536:PRO:C	1:K:537:ASN:HD22	2.22	0.47
1:K:647:GLU:OE1	1:K:695:LYS:HD3	2.15	0.47
2:k:1055:VAL:HG13	2:k:1148:ASP:OD2	2.15	0.47
2:k:1084:VAL:CG2	2:k:1092:ILE:HD11	2.44	0.47
2:k:1085:PHE:CD1	2:k:1085:PHE:C	2.92	0.47
1:L:229:ALA:O	1:L:230:SER:CB	2.62	0.47
2:l:1082:PHE:H	2:l:1093:LEU:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:310:HIS:CD2	1:M:312:SER:HB2	2.50	0.47
1:M:345:THR:O	1:M:346:TRP:C	2.58	0.47
1:M:401:LEU:HD22	1:M:411:TYR:CZ	2.49	0.47
1:M:410:TYR:H	1:M:410:TYR:HD1	1.61	0.47
2:m:1062:ILE:O	2:m:1066:VAL:HG23	2.15	0.47
1:O:206:TRP:HA	1:O:206:TRP:HE3	1.80	0.47
1:O:229:ALA:O	1:O:230:SER:CB	2.62	0.47
1:O:411:TYR:O	1:O:413:SER:N	2.48	0.47
1:O:536:PRO:C	1:O:537:ASN:HD22	2.22	0.47
1:O:578:LEU:C	1:O:580:LYS:H	2.22	0.47
1:O:585:ALA:O	1:O:586:LYS:HB2	2.13	0.47
1:O:647:GLU:OE1	1:O:695:LYS:HD3	2.15	0.47
1:O:648:ASP:HB2	1:O:652:LEU:HD12	1.96	0.47
2:o:1099:ARG:HD2	2:o:1099:ARG:N	2.29	0.47
2:o:1128:ASN:OD1	2:o:1166:SER:HA	2.15	0.47
1:A:411:TYR:CB	1:A:412:PRO:CD	2.93	0.47
1:A:459:ILE:HG12	1:A:477:TRP:CE2	2.50	0.47
1:A:636:ARG:HG3	1:A:636:ARG:HH11	1.80	0.47
2:a:1085:PHE:CD1	2:a:1085:PHE:C	2.92	0.47
1:B:298:THR:HB	1:B:601:ASN:HB3	1.96	0.47
1:B:345:THR:O	1:B:346:TRP:C	2.58	0.47
1:B:688:TYR:CE2	2:b:1114:PRO:HD2	2.50	0.47
1:C:298:THR:HB	1:C:601:ASN:HB3	1.96	0.47
1:C:413:SER:O	1:C:415:ASN:N	2.48	0.47
2:c:1085:PHE:CB	2:c:1089:ALA:HB2	2.45	0.47
1:D:573:ASN:OD1	1:D:575:TYR:HB2	2.15	0.47
1:D:578:LEU:C	1:D:580:LYS:H	2.22	0.47
1:D:583:LEU:HA	1:D:587:MET:SD	2.55	0.47
2:d:1082:PHE:H	2:d:1093:LEU:HB3	1.80	0.47
2:d:1183:GLN:NE2	2:d:1196:VAL:HG11	2.29	0.47
1:E:578:LEU:C	1:E:580:LYS:H	2.22	0.47
1:E:583:LEU:HA	1:E:587:MET:SD	2.55	0.47
1:E:688:TYR:CE2	2:e:1114:PRO:HD2	2.50	0.47
2:e:1055:VAL:HG13	2:e:1148:ASP:OD2	2.15	0.47
2:e:1082:PHE:H	2:e:1093:LEU:HB3	1.80	0.47
1:F:183:ILE:HG22	1:F:188:GLU:HB2	1.97	0.47
1:F:411:TYR:O	1:F:413:SER:N	2.48	0.47
1:F:454:GLN:HA	1:F:456:TYR:CE2	2.50	0.47
2:f:1154:LEU:HB3	2:f:1158:TYR:CD2	2.49	0.47
1:G:310:HIS:CD2	1:G:312:SER:HB2	2.50	0.47
2:g:1082:PHE:H	2:g:1093:LEU:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:305:GLY:HA2	1:I:670:GLN:CD	2.39	0.47
1:H:454:GLN:HA	1:H:456:TYR:CE2	2.50	0.47
1:H:459:ILE:HG12	1:H:477:TRP:CE2	2.50	0.47
1:H:536:PRO:C	1:H:537:ASN:HD22	2.22	0.47
2:h:1085:PHE:CB	2:h:1089:ALA:HB2	2.45	0.47
1:I:298:THR:HB	1:I:601:ASN:HB3	1.96	0.47
1:I:454:GLN:HA	1:I:456:TYR:CE2	2.50	0.47
2:i:1085:PHE:CB	2:i:1089:ALA:HB2	2.45	0.47
1:J:298:THR:HB	1:J:601:ASN:HB3	1.96	0.47
1:J:434:MET:HA	1:J:438:GLN:OE1	2.15	0.47
1:J:459:ILE:HG12	1:J:477:TRP:CE2	2.50	0.47
1:K:183:ILE:HG22	1:K:188:GLU:HB2	1.97	0.47
1:K:200:ARG:N	1:K:200:ARG:CD	2.72	0.47
1:K:413:SER:O	1:K:415:ASN:N	2.48	0.47
1:K:688:TYR:CE2	2:k:1114:PRO:HD2	2.50	0.47
2:k:1062:ILE:O	2:k:1066:VAL:HG23	2.15	0.47
1:L:183:ILE:HG12	1:L:203:LEU:CD2	2.43	0.47
1:L:200:ARG:N	1:L:200:ARG:CD	2.71	0.47
1:L:316:ILE:C	1:L:318:GLY:H	2.23	0.47
1:L:413:SER:O	1:L:415:ASN:N	2.48	0.47
1:L:434:MET:HA	1:L:438:GLN:OE1	2.15	0.47
1:M:573:ASN:OD1	1:M:575:TYR:HB2	2.15	0.47
1:M:609:GLU:HA	1:M:724:ILE:HD13	1.96	0.47
1:M:647:GLU:OE1	1:M:695:LYS:HD3	2.15	0.47
1:O:310:HIS:CD2	1:O:312:SER:HB2	2.50	0.47
1:O:316:ILE:C	1:O:318:GLY:H	2.23	0.47
2:o:1055:VAL:HG13	2:o:1148:ASP:OD2	2.15	0.47
2:o:1082:PHE:H	2:o:1093:LEU:HB3	1.80	0.47
2:o:1085:PHE:CD1	2:o:1085:PHE:C	2.92	0.47
1:A:411:TYR:O	1:A:413:SER:N	2.48	0.47
1:B:206:TRP:HA	1:B:206:TRP:HE3	1.80	0.47
1:B:207:ILE:HG21	1:B:210:ILE:HG12	1.96	0.47
1:B:459:ILE:HG12	1:B:477:TRP:CE2	2.50	0.47
2:b:1082:PHE:H	2:b:1093:LEU:HB3	1.80	0.47
1:C:310:HIS:CD2	1:C:312:SER:HB2	2.50	0.47
1:C:341:ALA:CB	2:c:1153:GLY:HA3	2.42	0.47
1:C:459:ILE:HG12	1:C:477:TRP:CE2	2.50	0.47
1:D:183:ILE:HG22	1:D:188:GLU:HB2	1.97	0.47
1:D:411:TYR:O	1:D:413:SER:N	2.48	0.47
2:d:1154:LEU:HB3	2:d:1158:TYR:CD2	2.49	0.47
1:E:459:ILE:HG12	1:E:477:TRP:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:1085:PHE:CB	2:e:1089:ALA:HB2	2.45	0.47
1:F:185:ASP:O	1:F:189:VAL:HG23	2.14	0.47
1:F:413:SER:O	1:F:415:ASN:N	2.48	0.47
1:F:578:LEU:C	1:F:580:LYS:H	2.22	0.47
1:F:647:GLU:OE1	1:F:695:LYS:HD3	2.15	0.47
1:G:250:GLU:OE1	1:G:250:GLU:N	2.48	0.47
1:G:377:VAL:HG22	1:G:398:GLU:HB3	1.96	0.47
1:G:583:LEU:HA	1:G:587:MET:SD	2.55	0.47
1:H:318:GLY:HA3	1:I:410:TYR:CE1	2.49	0.47
1:H:345:THR:O	1:H:346:TRP:C	2.58	0.47
1:H:411:TYR:CB	1:H:412:PRO:CD	2.93	0.47
1:H:434:MET:HA	1:H:438:GLN:OE1	2.15	0.47
1:I:229:ALA:O	1:I:230:SER:CB	2.62	0.47
1:I:316:ILE:C	1:I:318:GLY:H	2.23	0.47
1:I:377:VAL:CG1	1:I:398:GLU:HG3	2.41	0.47
1:I:567:ALA:C	1:I:569:LEU:H	2.22	0.47
1:J:336:HIS:HB3	1:J:708:ILE:HG22	1.95	0.47
1:J:688:TYR:CE2	2:j:1114:PRO:HD2	2.50	0.47
2:j:1085:PHE:CD1	2:j:1085:PHE:C	2.92	0.47
1:K:718:THR:HB	1:K:721:ILE:HD12	1.96	0.47
2:k:1099:ARG:HD2	2:k:1099:ARG:N	2.29	0.47
1:L:250:GLU:OE1	1:L:250:GLU:N	2.48	0.47
1:L:459:ILE:HG12	1:L:477:TRP:CE2	2.50	0.47
1:M:206:TRP:HA	1:M:206:TRP:HE3	1.80	0.47
1:M:316:ILE:C	1:M:318:GLY:H	2.23	0.47
1:M:413:SER:O	1:M:415:ASN:N	2.48	0.47
1:M:521:MET:HA	1:M:521:MET:CE	2.36	0.47
1:M:657:ASN:HB2	1:M:662:MET:CB	2.43	0.47
2:m:1055:VAL:HG13	2:m:1148:ASP:OD2	2.15	0.47
2:m:1082:PHE:H	2:m:1093:LEU:HB3	1.80	0.47
2:m:1099:ARG:HD2	2:m:1099:ARG:N	2.29	0.47
1:O:298:THR:HB	1:O:601:ASN:HB3	1.96	0.47
1:A:207:ILE:HG21	1:A:210:ILE:HG12	1.96	0.47
1:A:345:THR:O	1:A:346:TRP:C	2.58	0.47
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.79	0.47
2:a:1099:ARG:HD2	2:a:1099:ARG:N	2.29	0.47
2:a:1128:ASN:OD1	2:a:1166:SER:HA	2.15	0.47
1:B:183:ILE:HG12	1:B:203:LEU:CD2	2.43	0.47
1:B:183:ILE:HG22	1:B:188:GLU:HB2	1.97	0.47
1:B:411:TYR:CB	1:B:412:PRO:CD	2.93	0.47
2:b:1099:ARG:HD2	2:b:1099:ARG:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:1062:ILE:O	2:c:1066:VAL:HG23	2.15	0.47
1:D:310:HIS:CD2	1:D:312:SER:HB2	2.50	0.47
1:D:567:ALA:C	1:D:569:LEU:H	2.22	0.47
1:D:665:ILE:HG13	1:D:666:SER:N	2.30	0.47
1:D:688:TYR:CE2	2:d:1114:PRO:HD2	2.50	0.47
2:d:1084:VAL:CG2	2:d:1092:ILE:HD11	2.44	0.47
1:E:454:GLN:HA	1:E:456:TYR:CE2	2.50	0.47
2:e:1084:VAL:CG2	2:e:1092:ILE:HD11	2.44	0.47
1:F:583:LEU:HA	1:F:587:MET:SD	2.55	0.47
2:f:1128:ASN:OD1	2:f:1166:SER:HA	2.15	0.47
1:G:458:ASN:HD22	1:G:476:ASN:HD22	1.63	0.47
1:H:226:TRP:CD2	1:I:466:ASN:HB2	2.50	0.47
1:H:688:TYR:CE2	2:h:1114:PRO:HD2	2.50	0.47
1:I:183:ILE:HG12	1:I:203:LEU:CD2	2.43	0.47
2:i:1060:ILE:HG23	2:i:1061:GLU:N	2.29	0.47
2:i:1099:ARG:HD2	2:i:1099:ARG:N	2.29	0.47
1:J:310:HIS:CD2	1:J:312:SER:HB2	2.50	0.47
2:j:1099:ARG:HD2	2:j:1099:ARG:N	2.29	0.47
2:j:1203:PHE:HB3	2:j:1207:LYS:HG3	1.95	0.47
1:K:298:THR:HB	1:K:601:ASN:HB3	1.96	0.47
2:k:1049:LEU:N	2:k:1083:ILE:O	2.43	0.47
1:L:377:VAL:HG22	1:L:398:GLU:HB3	1.96	0.47
1:L:394:ILE:CG2	1:L:421:LEU:HD22	2.39	0.47
1:L:468:ARG:HG3	1:L:468:ARG:HH11	1.79	0.47
1:O:310:HIS:HD2	1:O:312:SER:HB2	1.78	0.47
1:A:310:HIS:CD2	1:A:312:SER:HB2	2.50	0.46
1:A:454:GLN:HA	1:A:456:TYR:CE2	2.50	0.46
1:B:636:ARG:HH11	1:B:636:ARG:HG3	1.80	0.46
1:B:647:GLU:OE1	1:B:695:LYS:HD3	2.15	0.46
2:b:1085:PHE:CB	2:b:1089:ALA:HB2	2.45	0.46
1:C:411:TYR:O	1:C:413:SER:N	2.48	0.46
1:D:454:GLN:HA	1:D:456:TYR:CE2	2.50	0.46
1:D:480:VAL:HG21	1:E:468:ARG:HH11	1.80	0.46
1:D:648:ASP:HB2	1:D:652:LEU:HD12	1.96	0.46
1:E:434:MET:HA	1:E:438:GLN:OE1	2.15	0.46
1:E:718:THR:HB	1:E:721:ILE:HD12	1.96	0.46
1:F:367:VAL:HG23	1:F:410:TYR:HA	1.96	0.46
1:G:454:GLN:HA	1:G:456:TYR:CE2	2.50	0.46
2:g:1085:PHE:CD1	2:g:1085:PHE:C	2.92	0.46
1:H:346:TRP:CZ3	1:H:443:GLU:HA	2.51	0.46
1:H:583:LEU:HA	1:H:587:MET:SD	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:1084:VAL:CG2	2:h:1092:ILE:HD11	2.44	0.46
1:I:434:MET:HA	1:I:438:GLN:OE1	2.15	0.46
1:I:647:GLU:OE1	1:I:695:LYS:HD3	2.15	0.46
1:J:226:TRP:HB2	1:K:466:ASN:C	2.40	0.46
1:J:583:LEU:HA	1:J:587:MET:SD	2.55	0.46
2:k:1128:ASN:OD1	2:k:1166:SER:HA	2.15	0.46
1:L:183:ILE:HG22	1:L:188:GLU:HB2	1.97	0.46
1:L:578:LEU:C	1:L:580:LYS:H	2.22	0.46
1:L:583:LEU:HA	1:L:587:MET:SD	2.55	0.46
1:M:183:ILE:HG22	1:M:188:GLU:HB2	1.97	0.46
1:O:183:ILE:HG22	1:O:188:GLU:HB2	1.97	0.46
1:O:250:GLU:N	1:O:250:GLU:OE1	2.48	0.46
1:O:271:LEU:CD1	1:O:289:ILE:HD11	2.36	0.46
1:O:458:ASN:HD22	1:O:476:ASN:HD22	1.63	0.46
1:O:665:ILE:HG13	1:O:666:SER:N	2.30	0.46
1:A:305:GLY:HA2	1:B:670:GLN:HE21	1.26	0.46
1:A:413:SER:O	1:A:415:ASN:N	2.48	0.46
1:A:434:MET:HA	1:A:438:GLN:OE1	2.15	0.46
2:a:1203:PHE:HB3	2:a:1207:LYS:HG3	1.95	0.46
1:B:346:TRP:CZ3	1:B:443:GLU:HA	2.51	0.46
1:B:578:LEU:C	1:B:580:LYS:H	2.22	0.46
2:b:1055:VAL:HG13	2:b:1148:ASP:OD2	2.15	0.46
1:C:316:ILE:C	1:C:318:GLY:H	2.23	0.46
1:C:647:GLU:OE1	1:C:695:LYS:HD3	2.15	0.46
1:C:665:ILE:HG13	1:C:666:SER:N	2.30	0.46
2:d:1184:ALA:HB1	2:d:1188:ARG:HH12	1.81	0.46
1:E:206:TRP:HA	1:E:206:TRP:HE3	1.80	0.46
1:E:573:ASN:OD1	1:E:575:TYR:HB2	2.15	0.46
1:F:250:GLU:OE1	1:F:250:GLU:N	2.48	0.46
2:f:1082:PHE:H	2:f:1093:LEU:HB3	1.80	0.46
1:G:183:ILE:HG22	1:G:188:GLU:HB2	1.97	0.46
1:G:434:MET:HA	1:G:438:GLN:OE1	2.15	0.46
1:G:573:ASN:OD1	1:G:575:TYR:HB2	2.15	0.46
2:g:1184:ALA:HB1	2:g:1188:ARG:HH12	1.80	0.46
1:H:305:GLY:C	1:I:670:GLN:HG3	2.41	0.46
1:H:310:HIS:CD2	1:H:312:SER:HB2	2.50	0.46
1:H:336:HIS:HB3	1:H:708:ILE:HG22	1.95	0.46
2:h:1062:ILE:O	2:h:1066:VAL:HG23	2.15	0.46
1:I:346:TRP:CZ3	1:I:443:GLU:HA	2.51	0.46
1:I:468:ARG:HH11	1:I:468:ARG:HG3	1.79	0.46
1:I:536:PRO:C	1:I:537:ASN:HD22	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:578:LEU:C	1:I:580:LYS:H	2.22	0.46
2:i:1055:VAL:HG13	2:i:1148:ASP:OD2	2.15	0.46
1:J:377:VAL:HG22	1:J:398:GLU:HB3	1.96	0.46
1:J:398:GLU:C	1:J:400:GLN:N	2.69	0.46
1:J:411:TYR:CD2	1:J:412:PRO:N	2.84	0.46
1:J:636:ARG:HH11	1:J:636:ARG:HG3	1.80	0.46
2:k:1085:PHE:CB	2:k:1089:ALA:HB2	2.45	0.46
2:k:1184:ALA:HB1	2:k:1188:ARG:HH12	1.81	0.46
1:L:688:TYR:CE2	2:l:1114:PRO:HD2	2.50	0.46
1:M:183:ILE:HG12	1:M:203:LEU:CD2	2.43	0.46
1:M:578:LEU:C	1:M:580:LYS:H	2.22	0.46
2:m:1146:LEU:CD1	2:m:1176:VAL:HB	2.42	0.46
1:O:688:TYR:CE2	2:o:1114:PRO:HD2	2.50	0.46
1:A:183:ILE:HG22	1:A:188:GLU:HB2	1.97	0.46
1:A:665:ILE:HG13	1:A:666:SER:N	2.30	0.46
1:B:341:ALA:CB	2:b:1153:GLY:HA3	2.43	0.46
1:C:411:TYR:CB	1:C:412:PRO:CD	2.93	0.46
1:C:688:TYR:CE2	2:c:1114:PRO:HD2	2.50	0.46
1:D:377:VAL:HG22	1:D:398:GLU:HB3	1.96	0.46
1:D:411:TYR:CD2	1:D:412:PRO:N	2.84	0.46
1:D:411:TYR:CB	1:D:412:PRO:CD	2.93	0.46
1:E:183:ILE:HG12	1:E:203:LEU:CD2	2.43	0.46
1:E:411:TYR:O	1:E:413:SER:N	2.48	0.46
1:E:647:GLU:OE1	1:E:695:LYS:HD3	2.15	0.46
2:e:1045:LEU:HB2	2:e:1080:LEU:HD23	1.98	0.46
1:F:636:ARG:HH11	1:F:636:ARG:HG3	1.80	0.46
1:G:318:GLY:HA2	1:H:410:TYR:CE1	2.50	0.46
1:G:385:LEU:O	1:G:389:GLN:HB2	2.14	0.46
1:G:411:TYR:CD2	1:G:412:PRO:N	2.84	0.46
1:H:480:VAL:HG21	1:I:468:ARG:HG3	1.98	0.46
1:H:636:ARG:HH11	1:H:636:ARG:HG3	1.80	0.46
1:H:718:THR:HB	1:H:721:ILE:HD12	1.96	0.46
1:K:360:LEU:HD12	1:K:361:ASN:N	2.29	0.46
1:K:454:GLN:HA	1:K:456:TYR:CE2	2.50	0.46
1:K:458:ASN:HD22	1:K:476:ASN:HD22	1.63	0.46
1:L:206:TRP:HA	1:L:206:TRP:HE3	1.80	0.46
1:L:411:TYR:O	1:L:413:SER:N	2.48	0.46
1:L:516:THR:HB	1:M:196:VAL:HG11	1.97	0.46
2:l:1047:PHE:HB2	2:l:1082:PHE:HD1	1.81	0.46
2:m:1060:ILE:HG23	2:m:1061:GLU:N	2.29	0.46
1:O:413:SER:C	1:O:415:ASN:N	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:1184:ALA:HB1	2:o:1188:ARG:HH12	1.80	0.46
1:A:377:VAL:CG1	1:A:398:GLU:HG3	2.41	0.46
1:A:718:THR:HB	1:A:721:ILE:HD12	1.96	0.46
1:B:413:SER:O	1:B:415:ASN:N	2.48	0.46
1:C:336:HIS:HB3	1:C:708:ILE:HG22	1.95	0.46
1:C:398:GLU:C	1:C:400:GLN:N	2.69	0.46
1:C:454:GLN:HA	1:C:456:TYR:CE2	2.50	0.46
2:d:1047:PHE:HB2	2:d:1082:PHE:HD1	1.81	0.46
2:d:1085:PHE:CB	2:d:1089:ALA:HB2	2.45	0.46
1:F:316:ILE:C	1:F:318:GLY:H	2.23	0.46
1:F:398:GLU:C	1:F:400:GLN:N	2.69	0.46
1:G:227:SER:O	1:G:230:SER:N	2.39	0.46
1:G:567:ALA:C	1:G:569:LEU:H	2.22	0.46
1:G:578:LEU:C	1:G:580:LYS:H	2.22	0.46
1:G:647:GLU:OE1	1:G:695:LYS:HD3	2.15	0.46
1:G:657:ASN:HB2	1:G:662:MET:CB	2.43	0.46
1:H:200:ARG:HG2	1:H:200:ARG:HH11	1.81	0.46
1:H:411:TYR:O	1:H:413:SER:N	2.48	0.46
1:I:573:ASN:OD1	1:I:575:TYR:HB2	2.15	0.46
1:J:183:ILE:HG22	1:J:188:GLU:HB2	1.97	0.46
1:J:413:SER:C	1:J:415:ASN:N	2.73	0.46
1:J:573:ASN:OD1	1:J:575:TYR:HB2	2.15	0.46
1:L:497:ASP:C	1:L:498:LEU:HD22	2.41	0.46
1:L:718:THR:HB	1:L:721:ILE:HD12	1.96	0.46
1:M:377:VAL:HG22	1:M:398:GLU:HB3	1.96	0.46
1:M:658:ASP:C	1:M:718:THR:HG23	2.41	0.46
1:O:336:HIS:HB3	1:O:708:ILE:HG22	1.96	0.46
1:O:454:GLN:HA	1:O:456:TYR:CE2	2.50	0.46
1:A:536:PRO:C	1:A:537:ASN:HD22	2.22	0.46
2:a:1085:PHE:CB	2:a:1089:ALA:HB2	2.45	0.46
1:B:200:ARG:HG2	1:B:200:ARG:HH11	1.81	0.46
1:B:311:ALA:C	1:B:313:PHE:H	2.24	0.46
2:b:1040:ARG:HA	2:b:1041:ARG:NH1	2.31	0.46
1:C:458:ASN:HD22	1:C:476:ASN:HD22	1.63	0.46
1:C:578:LEU:C	1:C:580:LYS:H	2.22	0.46
1:C:718:THR:HB	1:C:721:ILE:HD12	1.96	0.46
2:c:1082:PHE:H	2:c:1093:LEU:HB3	1.80	0.46
2:c:1184:ALA:HB1	2:c:1188:ARG:HH12	1.81	0.46
1:D:200:ARG:N	1:D:200:ARG:CD	2.71	0.46
2:d:1045:LEU:HB2	2:d:1080:LEU:HD23	1.98	0.46
1:E:346:TRP:CZ3	1:E:443:GLU:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:367:VAL:HG23	1:E:410:TYR:HA	1.96	0.46
1:F:458:ASN:HD22	1:F:476:ASN:HD22	1.63	0.46
1:G:411:TYR:O	1:G:413:SER:N	2.48	0.46
1:G:413:SER:O	1:G:415:ASN:N	2.48	0.46
1:G:497:ASP:C	1:G:498:LEU:HD22	2.41	0.46
1:G:665:ILE:HG13	1:G:666:SER:N	2.30	0.46
1:I:311:ALA:C	1:I:313:PHE:H	2.24	0.46
1:I:316:ILE:HD13	1:J:496:LYS:HD3	1.92	0.46
1:I:459:ILE:HG12	1:I:477:TRP:CE2	2.50	0.46
1:I:497:ASP:C	1:I:498:LEU:HD22	2.41	0.46
1:I:658:ASP:C	1:I:718:THR:HG23	2.41	0.46
1:I:718:THR:HB	1:I:721:ILE:HD12	1.96	0.46
1:J:200:ARG:HG2	1:J:200:ARG:HH11	1.81	0.46
1:J:411:TYR:O	1:J:413:SER:N	2.48	0.46
1:J:458:ASN:HD22	1:J:476:ASN:HD22	1.63	0.46
2:j:1184:ALA:HB1	2:j:1188:ARG:HH12	1.80	0.46
1:K:311:ALA:C	1:K:313:PHE:H	2.24	0.46
1:L:367:VAL:HG23	1:L:410:TYR:HA	1.96	0.46
1:M:311:ALA:C	1:M:313:PHE:H	2.24	0.46
1:M:346:TRP:CZ3	1:M:443:GLU:HA	2.51	0.46
1:M:411:TYR:CB	1:M:412:PRO:CD	2.93	0.46
1:M:468:ARG:HH11	1:M:468:ARG:HG3	1.79	0.46
2:m:1084:VAL:CG2	2:m:1092:ILE:HD11	2.44	0.46
1:O:464:PHE:CD2	1:O:465:GLU:N	2.82	0.46
1:O:497:ASP:C	1:O:498:LEU:HD22	2.41	0.46
1:A:411:TYR:CD2	1:A:412:PRO:N	2.84	0.46
1:A:583:LEU:HA	1:A:587:MET:SD	2.55	0.46
1:B:583:LEU:HA	1:B:587:MET:SD	2.55	0.46
1:B:658:ASP:C	1:B:718:THR:HG23	2.41	0.46
1:C:497:ASP:C	1:C:498:LEU:HD22	2.41	0.46
2:c:1055:VAL:HG13	2:c:1148:ASP:OD2	2.15	0.46
1:D:607:ALA:H	1:D:638:ILE:CD1	2.20	0.46
1:E:316:ILE:C	1:E:318:GLY:H	2.23	0.46
1:E:413:SER:C	1:E:415:ASN:N	2.73	0.46
1:E:413:SER:O	1:E:415:ASN:N	2.48	0.46
1:F:573:ASN:OD1	1:F:575:TYR:HB2	2.15	0.46
1:G:459:ILE:HG12	1:G:477:TRP:CE2	2.50	0.46
1:H:411:TYR:CD2	1:H:412:PRO:N	2.84	0.46
1:H:413:SER:C	1:H:415:ASN:N	2.73	0.46
1:H:480:VAL:HG11	1:I:468:ARG:HH11	1.80	0.46
1:H:658:ASP:C	1:H:718:THR:HG23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:310:HIS:CD2	1:I:312:SER:HB2	2.50	0.46
1:I:398:GLU:C	1:I:400:GLN:N	2.69	0.46
2:i:1040:ARG:HA	2:i:1041:ARG:NH1	2.31	0.46
1:J:658:ASP:C	1:J:718:THR:HG23	2.41	0.46
2:k:1040:ARG:HA	2:k:1041:ARG:NH1	2.31	0.46
2:k:1047:PHE:HB2	2:k:1082:PHE:HD1	1.81	0.46
1:L:198:ASN:O	1:L:199:LYS:HD2	2.16	0.46
1:L:310:HIS:CD2	1:L:312:SER:HB2	2.50	0.46
1:L:346:TRP:CZ3	1:L:443:GLU:HA	2.51	0.46
1:L:573:ASN:OD1	1:L:575:TYR:HB2	2.15	0.46
2:l:1040:ARG:HA	2:l:1041:ARG:NH1	2.31	0.46
2:l:1085:PHE:CB	2:l:1089:ALA:HB2	2.45	0.46
1:M:607:ALA:H	1:M:638:ILE:CD1	2.20	0.46
1:M:636:ARG:HH11	1:M:636:ARG:HG3	1.80	0.46
2:m:1045:LEU:HB2	2:m:1080:LEU:HD23	1.98	0.46
1:O:198:ASN:O	1:O:199:LYS:HD2	2.16	0.46
1:O:346:TRP:CZ3	1:O:443:GLU:HA	2.51	0.46
1:O:411:TYR:CD2	1:O:412:PRO:N	2.84	0.46
1:O:434:MET:HA	1:O:438:GLN:OE1	2.15	0.46
1:O:609:GLU:HA	1:O:724:ILE:HD13	1.96	0.46
2:b:1047:PHE:HB2	2:b:1082:PHE:HD1	1.81	0.46
1:D:346:TRP:CZ3	1:D:443:GLU:HA	2.51	0.46
1:D:481:LEU:N	1:D:482:PRO:CD	2.74	0.46
1:E:200:ARG:HG2	1:E:200:ARG:HH11	1.81	0.46
1:E:481:LEU:N	1:E:482:PRO:CD	2.74	0.46
1:F:311:ALA:C	1:F:313:PHE:H	2.24	0.46
1:F:341:ALA:CB	2:f:1153:GLY:HA3	2.42	0.46
1:F:459:ILE:HG12	1:F:477:TRP:CE2	2.50	0.46
1:F:718:THR:HB	1:F:721:ILE:HD12	1.96	0.46
1:G:414:LYS:CD	1:M:319:SER:N	2.78	0.46
2:g:1128:ASN:OD1	2:g:1166:SER:HA	2.15	0.46
1:H:198:ASN:O	1:H:199:LYS:HD2	2.16	0.46
2:h:1055:VAL:HG13	2:h:1148:ASP:OD2	2.15	0.46
1:I:183:ILE:HG22	1:I:188:GLU:HB2	1.97	0.46
1:I:665:ILE:HG13	1:I:666:SER:N	2.30	0.46
1:I:688:TYR:CE2	2:i:1114:PRO:HD2	2.50	0.46
2:i:1049:LEU:N	2:i:1083:ILE:O	2.43	0.46
1:J:346:TRP:CZ3	1:J:443:GLU:HA	2.51	0.46
1:K:206:TRP:HA	1:K:206:TRP:HE3	1.80	0.46
1:K:346:TRP:CZ3	1:K:443:GLU:HA	2.50	0.46
1:K:394:ILE:CG2	1:K:421:LEU:HD22	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:ASN:HD22	1:L:476:ASN:HD22	1.63	0.46
1:M:367:VAL:HG23	1:M:410:TYR:HA	1.96	0.46
1:M:434:MET:HA	1:M:438:GLN:OE1	2.15	0.46
1:O:345:THR:O	1:O:346:TRP:C	2.58	0.46
1:O:411:TYR:CB	1:O:412:PRO:CD	2.93	0.46
1:O:413:SER:O	1:O:415:ASN:N	2.48	0.46
2:o:1085:PHE:CB	2:o:1089:ALA:HB2	2.45	0.46
1:A:458:ASN:OD1	1:A:473:THR:HA	2.16	0.46
2:a:1040:ARG:HA	2:a:1041:ARG:NH1	2.31	0.46
2:a:1184:ALA:HB1	2:a:1188:ARG:HH12	1.81	0.46
1:B:411:TYR:CD2	1:B:412:PRO:N	2.84	0.46
1:B:497:ASP:C	1:B:498:LEU:HD22	2.41	0.46
2:b:1049:LEU:N	2:b:1083:ILE:O	2.43	0.46
2:b:1062:ILE:O	2:b:1066:VAL:HG23	2.15	0.46
1:C:346:TRP:CZ3	1:C:443:GLU:HA	2.51	0.46
1:D:198:ASN:O	1:D:199:LYS:HD2	2.16	0.46
1:D:200:ARG:HG2	1:D:200:ARG:HH11	1.81	0.46
1:D:270:ILE:CG2	1:D:361:ASN:HB3	2.46	0.46
1:D:413:SER:O	1:D:415:ASN:N	2.48	0.46
1:D:434:MET:HA	1:D:438:GLN:OE1	2.15	0.46
1:D:458:ASN:HD22	1:D:476:ASN:HD22	1.63	0.46
2:d:1040:ARG:HA	2:d:1041:ARG:NH1	2.31	0.46
1:E:665:ILE:HG13	1:E:666:SER:N	2.30	0.46
2:e:1062:ILE:O	2:e:1066:VAL:HG23	2.15	0.46
2:f:1062:ILE:O	2:f:1066:VAL:HG23	2.15	0.46
1:G:458:ASN:OD1	1:G:473:THR:HA	2.16	0.46
1:G:658:ASP:C	1:G:718:THR:HG23	2.41	0.46
2:g:1085:PHE:CB	2:g:1089:ALA:HB2	2.45	0.46
1:H:316:ILE:C	1:H:318:GLY:H	2.23	0.46
1:H:458:ASN:OD1	1:H:473:THR:HA	2.16	0.46
2:h:1082:PHE:H	2:h:1093:LEU:HB3	1.80	0.46
2:h:1128:ASN:OD1	2:h:1166:SER:HA	2.15	0.46
1:I:250:GLU:OE1	1:I:250:GLU:N	2.48	0.46
1:I:308:GLU:OE2	1:J:667:SER:OG	2.28	0.46
2:i:1082:PHE:H	2:i:1093:LEU:HB3	1.80	0.46
1:J:345:THR:O	1:J:346:TRP:C	2.58	0.46
1:J:648:ASP:HB2	1:J:652:LEU:HD12	1.96	0.46
2:j:1163:ALA:HB1	2:j:1189:ILE:O	2.16	0.46
1:K:434:MET:HA	1:K:438:GLN:OE1	2.15	0.46
1:K:464:PHE:CD2	1:K:465:GLU:N	2.82	0.46
1:K:483:GLN:NE2	1:L:245:LYS:H	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:200:ARG:HG2	1:L:200:ARG:HH11	1.81	0.46
1:L:411:TYR:CB	1:L:412:PRO:CD	2.93	0.46
1:M:411:TYR:CD2	1:M:412:PRO:N	2.84	0.46
1:M:454:GLN:HA	1:M:456:TYR:CE2	2.50	0.46
1:M:688:TYR:CE2	2:m:1114:PRO:HD2	2.50	0.46
2:o:1163:ALA:HB1	2:o:1189:ILE:O	2.16	0.46
1:A:250:GLU:OE1	1:A:250:GLU:N	2.48	0.46
1:A:271:LEU:CD1	1:A:289:ILE:HD11	2.36	0.46
1:A:308:GLU:OE2	1:B:667:SER:OG	2.30	0.46
1:A:670:GLN:HE21	1:F:305:GLY:CA	2.28	0.46
2:a:1082:PHE:H	2:a:1093:LEU:HB3	1.80	0.46
2:a:1124:LEU:O	2:a:1127:ALA:HB3	2.16	0.46
1:B:454:GLN:HA	1:B:456:TYR:CE2	2.50	0.46
2:b:1045:LEU:HD12	2:b:1080:LEU:HD21	1.98	0.46
1:C:198:ASN:O	1:C:199:LYS:HD2	2.16	0.46
2:c:1045:LEU:HD12	2:c:1080:LEU:HD21	1.98	0.46
1:D:224:GLU:OE2	1:E:201:THR:N	2.48	0.46
1:E:270:ILE:CG2	1:E:361:ASN:HB3	2.46	0.46
1:E:341:ALA:CB	2:e:1153:GLY:HA3	2.43	0.46
1:E:497:ASP:C	1:E:498:LEU:HD22	2.41	0.46
1:E:607:ALA:H	1:E:638:ILE:CD1	2.20	0.46
2:e:1040:ARG:HA	2:e:1041:ARG:NH1	2.31	0.46
2:e:1163:ALA:HB1	2:e:1189:ILE:O	2.16	0.46
1:F:206:TRP:HA	1:F:206:TRP:HE3	1.80	0.46
1:G:636:ARG:HG3	1:G:636:ARG:HH11	1.80	0.46
1:H:206:TRP:HA	1:H:206:TRP:HE3	1.80	0.46
1:H:250:GLU:OE1	1:H:250:GLU:N	2.48	0.46
1:I:345:THR:O	1:I:346:TRP:C	2.58	0.46
1:I:411:TYR:CD2	1:I:412:PRO:N	2.84	0.46
1:I:458:ASN:HD22	1:I:476:ASN:HD22	1.63	0.46
1:I:609:GLU:HA	1:I:724:ILE:HD13	1.96	0.46
2:i:1047:PHE:HB2	2:i:1082:PHE:HD1	1.81	0.46
2:i:1163:ALA:HB1	2:i:1189:ILE:O	2.16	0.46
1:J:454:GLN:HA	1:J:456:TYR:CE2	2.50	0.46
2:j:1047:PHE:HB2	2:j:1082:PHE:HD1	1.81	0.46
2:j:1055:VAL:HG13	2:j:1148:ASP:OD2	2.15	0.46
2:k:1124:LEU:O	2:k:1127:ALA:HB3	2.16	0.46
1:L:315:ASP:OD1	1:M:497:ASP:CG	2.59	0.46
1:L:454:GLN:HA	1:L:456:TYR:CE2	2.50	0.46
1:L:458:ASN:OD1	1:L:473:THR:HA	2.16	0.46
1:M:271:LEU:CD1	1:M:289:ILE:HD11	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:464:PHE:CD2	1:M:465:GLU:N	2.82	0.46
1:O:459:ILE:HG12	1:O:477:TRP:CE2	2.50	0.46
1:A:195:ASP:CG	1:A:196:VAL:N	2.74	0.46
1:A:303:VAL:CG2	1:B:670:GLN:HG2	2.46	0.46
1:A:311:ALA:C	1:A:313:PHE:H	2.24	0.46
2:a:1045:LEU:HD12	2:a:1080:LEU:HD21	1.98	0.46
2:b:1051:LYS:O	2:b:1051:LYS:HG3	2.16	0.46
1:C:183:ILE:HG22	1:C:188:GLU:HB2	1.97	0.46
1:C:413:SER:C	1:C:415:ASN:N	2.73	0.46
1:D:497:ASP:C	1:D:498:LEU:HD22	2.41	0.46
1:E:178:ARG:NH2	1:F:200:ARG:HB3	2.31	0.46
1:E:198:ASN:O	1:E:199:LYS:HD2	2.16	0.46
2:e:1124:LEU:O	2:e:1127:ALA:HB3	2.16	0.46
1:G:200:ARG:HG2	1:G:200:ARG:HH11	1.81	0.46
1:G:346:TRP:CZ3	1:G:443:GLU:HA	2.51	0.46
1:G:468:ARG:HH11	1:M:480:VAL:HG21	1.80	0.46
1:H:365:ARG:HH11	1:H:414:LYS:HD3	1.81	0.46
2:h:1045:LEU:HD12	2:h:1080:LEU:HD21	1.98	0.46
2:h:1047:PHE:HB2	2:h:1082:PHE:HD1	1.81	0.46
1:I:458:ASN:OD1	1:I:473:THR:HA	2.16	0.46
2:i:1051:LYS:O	2:i:1051:LYS:HG3	2.16	0.46
1:J:206:TRP:HA	1:J:206:TRP:HE3	1.80	0.46
1:J:647:GLU:OE1	1:J:695:LYS:HD3	2.15	0.46
2:j:1062:ILE:O	2:j:1066:VAL:HG23	2.15	0.46
2:j:1124:LEU:O	2:j:1127:ALA:HB3	2.16	0.46
2:j:1146:LEU:CD1	2:j:1176:VAL:HB	2.42	0.46
1:K:195:ASP:CG	1:K:196:VAL:N	2.74	0.46
1:K:411:TYR:CD2	1:K:412:PRO:N	2.84	0.46
1:K:658:ASP:C	1:K:718:THR:HG23	2.41	0.46
2:k:1045:LEU:HD12	2:k:1080:LEU:HD21	1.98	0.46
2:k:1058:ASN:OD1	2:k:1179:LEU:HD21	2.17	0.46
1:M:195:ASP:CG	1:M:196:VAL:N	2.74	0.46
1:M:200:ARG:HG2	1:M:200:ARG:HH11	1.81	0.46
1:M:665:ILE:HG13	1:M:666:SER:N	2.31	0.46
1:O:270:ILE:CG2	1:O:361:ASN:HB3	2.46	0.46
2:o:1045:LEU:HD12	2:o:1080:LEU:HD21	1.98	0.46
2:o:1047:PHE:HB2	2:o:1082:PHE:HD1	1.81	0.46
1:A:458:ASN:HD22	1:A:476:ASN:HD22	1.63	0.45
2:a:1047:PHE:HB2	2:a:1082:PHE:HD1	1.81	0.45
2:a:1084:VAL:CG2	2:a:1092:ILE:HD11	2.44	0.45
1:B:316:ILE:C	1:B:318:GLY:H	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:ASN:OD1	1:B:473:THR:HA	2.16	0.45
1:B:596:PHE:CD1	1:B:596:PHE:N	2.84	0.45
2:b:1163:ALA:HB1	2:b:1189:ILE:O	2.16	0.45
1:C:270:ILE:CG2	1:C:361:ASN:HB3	2.46	0.45
1:C:311:ALA:C	1:C:313:PHE:H	2.24	0.45
2:c:1040:ARG:HA	2:c:1041:ARG:NH1	2.31	0.45
1:D:636:ARG:HG3	1:D:636:ARG:HH11	1.80	0.45
1:D:670:GLN:HE21	1:O:305:GLY:CA	2.27	0.45
2:d:1163:ALA:HB1	2:d:1189:ILE:O	2.16	0.45
1:E:411:TYR:CB	1:E:412:PRO:CD	2.93	0.45
2:e:1047:PHE:HB2	2:e:1082:PHE:HD1	1.81	0.45
1:F:434:MET:HA	1:F:438:GLN:OE1	2.15	0.45
2:f:1040:ARG:HA	2:f:1041:ARG:NH1	2.31	0.45
2:f:1047:PHE:HB2	2:f:1082:PHE:HD1	1.81	0.45
2:f:1124:LEU:O	2:f:1127:ALA:HB3	2.16	0.45
1:G:206:TRP:HA	1:G:206:TRP:HE3	1.80	0.45
1:G:311:ALA:C	1:G:313:PHE:H	2.24	0.45
1:G:413:SER:C	1:G:415:ASN:N	2.73	0.45
1:G:481:LEU:N	1:G:482:PRO:CD	2.75	0.45
1:G:515:GLU:OE1	1:H:245:LYS:HE2	2.15	0.45
1:G:524:LYS:O	1:G:525:GLU:C	2.59	0.45
1:H:195:ASP:CG	1:H:196:VAL:N	2.74	0.45
1:H:647:GLU:OE1	1:H:695:LYS:HD3	2.15	0.45
1:I:206:TRP:HA	1:I:206:TRP:HE3	1.80	0.45
1:I:270:ILE:CG2	1:I:361:ASN:HB3	2.46	0.45
1:I:365:ARG:HH11	1:I:414:LYS:HD3	1.81	0.45
1:I:413:SER:C	1:I:415:ASN:N	2.73	0.45
1:I:607:ALA:H	1:I:638:ILE:CD1	2.20	0.45
2:i:1058:ASN:OD1	2:i:1179:LEU:HD21	2.16	0.45
1:J:198:ASN:O	1:J:199:LYS:HD2	2.16	0.45
1:J:220:LYS:O	1:J:519:PRO:HG2	2.16	0.45
1:J:365:ARG:HH11	1:J:414:LYS:HD3	1.82	0.45
1:J:596:PHE:CD1	1:J:596:PHE:N	2.84	0.45
2:j:1085:PHE:CB	2:j:1089:ALA:HB2	2.45	0.45
1:K:270:ILE:CG2	1:K:361:ASN:HB3	2.46	0.45
1:K:413:SER:C	1:K:415:ASN:N	2.73	0.45
1:K:524:LYS:O	1:K:525:GLU:C	2.60	0.45
1:L:360:LEU:HD12	1:L:361:ASN:N	2.29	0.45
1:L:411:TYR:CD2	1:L:412:PRO:N	2.84	0.45
1:L:413:SER:C	1:L:415:ASN:N	2.73	0.45
1:L:665:ILE:HG13	1:L:666:SER:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:1184:ALA:HB1	2:l:1188:ARG:HH12	1.81	0.45
1:M:497:ASP:C	1:M:498:LEU:HD22	2.41	0.45
2:m:1184:ALA:HB1	2:m:1188:ARG:HH12	1.81	0.45
1:O:636:ARG:HG3	1:O:636:ARG:HH11	1.80	0.45
2:o:1045:LEU:HB2	2:o:1080:LEU:HD23	1.98	0.45
1:A:206:TRP:HA	1:A:206:TRP:HE3	1.80	0.45
1:A:245:LYS:H	1:F:483:GLN:NE2	2.14	0.45
1:A:413:SER:C	1:A:415:ASN:N	2.73	0.45
2:c:1163:ALA:HB1	2:c:1189:ILE:O	2.16	0.45
1:D:250:GLU:OE1	1:D:250:GLU:N	2.48	0.45
1:D:345:THR:O	1:D:346:TRP:C	2.58	0.45
1:D:365:ARG:HH11	1:D:414:LYS:HD3	1.82	0.45
2:d:1045:LEU:HD12	2:d:1080:LEU:HD21	1.98	0.45
2:d:1065:PHE:O	2:d:1069:LEU:HB2	2.17	0.45
1:E:250:GLU:OE1	1:E:250:GLU:N	2.48	0.45
1:E:353:ASN:O	1:E:354:THR:C	2.60	0.45
1:E:458:ASN:HD22	1:E:476:ASN:HD22	1.63	0.45
1:F:346:TRP:CZ3	1:F:443:GLU:HA	2.51	0.45
1:F:411:TYR:CD2	1:F:412:PRO:N	2.84	0.45
1:F:458:ASN:OD1	1:F:473:THR:HA	2.16	0.45
1:F:658:ASP:C	1:F:718:THR:HG23	2.41	0.45
2:f:1060:ILE:HG23	2:f:1061:GLU:N	2.29	0.45
1:G:245:LYS:HG3	1:M:487:THR:CG2	2.46	0.45
1:G:305:GLY:CA	1:H:670:GLN:HG3	2.42	0.45
1:G:607:ALA:N	1:G:638:ILE:HD12	2.22	0.45
2:g:1124:LEU:O	2:g:1127:ALA:HB3	2.16	0.45
1:H:665:ILE:HG13	1:H:666:SER:N	2.30	0.45
1:I:220:LYS:O	1:I:519:PRO:HG2	2.17	0.45
1:J:270:ILE:CG2	1:J:361:ASN:HB3	2.46	0.45
1:J:497:ASP:C	1:J:498:LEU:HD22	2.41	0.45
1:K:183:ILE:HG12	1:K:203:LEU:CD2	2.43	0.45
1:K:220:LYS:O	1:K:519:PRO:HG2	2.16	0.45
2:l:1124:LEU:O	2:l:1127:ALA:HB3	2.16	0.45
1:M:458:ASN:OD1	1:M:473:THR:HA	2.16	0.45
2:m:1065:PHE:O	2:m:1069:LEU:HB2	2.17	0.45
1:O:220:LYS:O	1:O:519:PRO:HG2	2.16	0.45
2:o:1065:PHE:O	2:o:1069:LEU:HB2	2.17	0.45
1:A:270:ILE:CG2	1:A:361:ASN:HB3	2.46	0.45
1:A:524:LYS:O	1:A:525:GLU:C	2.59	0.45
1:A:647:GLU:OE1	1:A:695:LYS:HD3	2.15	0.45
1:B:195:ASP:CG	1:B:196:VAL:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:198:ASN:O	1:B:199:LYS:HD2	2.16	0.45
2:b:1065:PHE:O	2:b:1069:LEU:HB2	2.17	0.45
1:E:220:LYS:O	1:E:519:PRO:HG2	2.16	0.45
1:E:311:ALA:C	1:E:313:PHE:H	2.24	0.45
2:e:1045:LEU:HD12	2:e:1080:LEU:HD21	1.98	0.45
2:e:1051:LYS:O	2:e:1051:LYS:HG3	2.16	0.45
1:F:198:ASN:O	1:F:199:LYS:HD2	2.16	0.45
1:F:270:ILE:CG2	1:F:361:ASN:HB3	2.46	0.45
1:F:497:ASP:C	1:F:498:LEU:HD22	2.41	0.45
2:f:1184:ALA:HB1	2:f:1188:ARG:HH12	1.81	0.45
1:G:195:ASP:CG	1:G:196:VAL:N	2.75	0.45
1:G:198:ASN:O	1:G:199:LYS:HD2	2.16	0.45
1:G:220:LYS:O	1:G:519:PRO:HG2	2.16	0.45
1:H:183:ILE:HG22	1:H:188:GLU:HB2	1.97	0.45
1:H:497:ASP:C	1:H:498:LEU:HD22	2.41	0.45
2:h:1045:LEU:HB2	2:h:1080:LEU:HD23	1.98	0.45
1:I:178:ARG:CZ	1:J:200:ARG:HB3	2.46	0.45
1:I:198:ASN:O	1:I:199:LYS:HD2	2.16	0.45
1:I:308:GLU:OE2	1:J:667:SER:CB	2.65	0.45
1:I:360:LEU:HD12	1:I:361:ASN:N	2.29	0.45
1:J:195:ASP:CG	1:J:196:VAL:N	2.74	0.45
1:J:265:ASP:HA	1:J:295:THR:HG21	1.99	0.45
1:J:665:ILE:HG13	1:J:666:SER:N	2.30	0.45
2:j:1058:ASN:OD1	2:j:1179:LEU:HD21	2.16	0.45
1:K:665:ILE:HG13	1:K:666:SER:N	2.30	0.45
2:k:1082:PHE:H	2:k:1093:LEU:HB3	1.80	0.45
1:L:195:ASP:CG	1:L:196:VAL:N	2.75	0.45
1:L:220:LYS:O	1:L:519:PRO:HG2	2.16	0.45
1:L:265:ASP:HA	1:L:295:THR:HG21	1.99	0.45
1:L:270:ILE:CG2	1:L:361:ASN:HB3	2.46	0.45
1:L:636:ARG:HG3	1:L:636:ARG:HH11	1.80	0.45
1:L:658:ASP:C	1:L:718:THR:HG23	2.41	0.45
2:l:1058:ASN:OD1	2:l:1179:LEU:HD21	2.16	0.45
1:O:311:ALA:C	1:O:313:PHE:H	2.24	0.45
1:O:353:ASN:O	1:O:354:THR:C	2.60	0.45
1:O:377:VAL:CG1	1:O:398:GLU:HG3	2.41	0.45
2:o:1040:ARG:HA	2:o:1041:ARG:NH1	2.31	0.45
1:A:198:ASN:O	1:A:199:LYS:HD2	2.16	0.45
1:A:658:ASP:C	1:A:718:THR:HG23	2.41	0.45
2:a:1041:ARG:NH1	2:a:1218:CYS:SG	2.90	0.45
2:b:1045:LEU:HB2	2:b:1080:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1184:ALA:HB1	2:b:1188:ARG:HH12	1.80	0.45
1:C:411:TYR:CD2	1:C:412:PRO:N	2.84	0.45
1:C:434:MET:HA	1:C:438:GLN:OE1	2.15	0.45
2:c:1058:ASN:OD1	2:c:1179:LEU:HD21	2.16	0.45
1:D:658:ASP:C	1:D:718:THR:HG23	2.41	0.45
1:E:195:ASP:CG	1:E:196:VAL:N	2.75	0.45
1:E:483:GLN:HE22	1:F:245:LYS:H	1.63	0.45
1:E:524:LYS:O	1:E:525:GLU:C	2.59	0.45
1:E:636:ARG:HH11	1:E:636:ARG:HG3	1.80	0.45
1:F:271:LEU:CD1	1:F:289:ILE:HD11	2.36	0.45
2:f:1041:ARG:NH1	2:f:1218:CYS:SG	2.90	0.45
2:f:1045:LEU:HD12	2:f:1080:LEU:HD21	1.98	0.45
2:g:1163:ALA:HB1	2:g:1189:ILE:O	2.16	0.45
1:H:220:LYS:O	1:H:519:PRO:HG2	2.16	0.45
1:H:524:LYS:O	1:H:525:GLU:C	2.59	0.45
2:h:1041:ARG:NH1	2:h:1218:CYS:SG	2.90	0.45
2:h:1184:ALA:HB1	2:h:1188:ARG:HH12	1.81	0.45
1:I:383:LEU:C	1:I:383:LEU:HD23	2.42	0.45
1:I:636:ARG:HH11	1:I:636:ARG:HG3	1.80	0.45
2:i:1045:LEU:CD2	2:i:1142:ILE:HB	2.47	0.45
2:i:1184:ALA:HB1	2:i:1188:ARG:HH12	1.81	0.45
2:j:1045:LEU:HD12	2:j:1080:LEU:HD21	1.98	0.45
2:j:1045:LEU:CD2	2:j:1142:ILE:HB	2.47	0.45
1:K:198:ASN:O	1:K:199:LYS:HD2	2.16	0.45
1:K:316:ILE:HD11	1:L:496:LYS:CB	2.43	0.45
1:K:636:ARG:HH11	1:K:636:ARG:HG3	1.80	0.45
1:L:187:LEU:O	1:L:192:TYR:HD2	2.00	0.45
1:L:524:LYS:O	1:L:525:GLU:C	2.59	0.45
2:l:1045:LEU:HB2	2:l:1080:LEU:HD23	1.98	0.45
1:M:187:LEU:O	1:M:192:TYR:HD2	2.00	0.45
1:M:220:LYS:O	1:M:519:PRO:HG2	2.16	0.45
1:M:365:ARG:HH11	1:M:414:LYS:HD3	1.81	0.45
1:M:524:LYS:O	1:M:525:GLU:C	2.59	0.45
1:O:200:ARG:HG2	1:O:200:ARG:HH11	1.81	0.45
1:O:458:ASN:OD1	1:O:473:THR:HA	2.16	0.45
1:O:524:LYS:O	1:O:525:GLU:C	2.59	0.45
1:O:658:ASP:C	1:O:718:THR:HG23	2.41	0.45
2:o:1051:LYS:HG3	2:o:1051:LYS:O	2.16	0.45
1:A:187:LEU:O	1:A:192:TYR:HD2	2.00	0.45
1:A:200:ARG:HG2	1:A:200:ARG:HH11	1.81	0.45
1:A:497:ASP:C	1:A:498:LEU:HD22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1062:ILE:O	2:a:1066:VAL:HG23	2.15	0.45
2:a:1163:ALA:HB1	2:a:1189:ILE:O	2.16	0.45
1:B:220:LYS:O	1:B:519:PRO:HG2	2.17	0.45
2:b:1058:ASN:OD1	2:b:1179:LEU:HD21	2.17	0.45
1:C:200:ARG:HG2	1:C:200:ARG:HH11	1.81	0.45
2:c:1045:LEU:HB2	2:c:1080:LEU:HD23	1.98	0.45
2:c:1065:PHE:O	2:c:1069:LEU:HB2	2.17	0.45
2:d:1124:LEU:O	2:d:1127:ALA:HB3	2.16	0.45
1:E:365:ARG:HH11	1:E:414:LYS:HD3	1.82	0.45
1:E:383:LEU:HD23	1:E:383:LEU:C	2.42	0.45
1:E:479:GLU:OE1	1:F:470:ARG:HA	2.16	0.45
2:e:1184:ALA:HB1	2:e:1188:ARG:HH12	1.81	0.45
1:F:195:ASP:CG	1:F:196:VAL:N	2.75	0.45
1:F:265:ASP:HA	1:F:295:THR:HG21	1.99	0.45
1:F:353:ASN:O	1:F:354:THR:C	2.60	0.45
1:F:665:ILE:HG13	1:F:666:SER:N	2.31	0.45
2:f:1065:PHE:O	2:f:1069:LEU:HB2	2.17	0.45
2:f:1163:ALA:HB1	2:f:1189:ILE:O	2.16	0.45
1:G:410:TYR:N	1:G:410:TYR:CD1	2.85	0.45
1:G:466:ASN:OD1	1:G:468:ARG:HB2	2.17	0.45
2:h:1040:ARG:HA	2:h:1041:ARG:NH1	2.31	0.45
1:I:179:ASP:O	1:I:180:ASN:HB3	2.17	0.45
1:I:353:ASN:O	1:I:354:THR:C	2.60	0.45
1:K:265:ASP:HA	1:K:295:THR:HG21	1.99	0.45
1:K:458:ASN:OD1	1:K:473:THR:HA	2.16	0.45
1:M:413:SER:C	1:M:415:ASN:N	2.73	0.45
1:M:466:ASN:OD1	1:M:468:ARG:HB2	2.17	0.45
1:M:567:ALA:C	1:M:569:LEU:H	2.22	0.45
2:m:1047:PHE:HB2	2:m:1082:PHE:HD1	1.81	0.45
1:A:353:ASN:O	1:A:354:THR:C	2.60	0.45
1:B:410:TYR:N	1:B:410:TYR:CD1	2.85	0.45
2:b:1046:TYR:OH	2:b:1095:LEU:HD22	2.17	0.45
1:C:224:GLU:OE2	1:O:201:THR:CB	2.65	0.45
1:C:383:LEU:HD23	1:C:383:LEU:C	2.42	0.45
1:C:410:TYR:N	1:C:410:TYR:CD1	2.85	0.45
1:C:596:PHE:CD1	1:C:596:PHE:N	2.84	0.45
1:D:179:ASP:O	1:D:180:ASN:HB3	2.17	0.45
1:D:458:ASN:OD1	1:D:473:THR:HA	2.16	0.45
1:D:466:ASN:OD1	1:D:468:ARG:HB2	2.17	0.45
1:D:524:LYS:O	1:D:525:GLU:C	2.59	0.45
2:d:1041:ARG:NH1	2:d:1218:CYS:SG	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:1058:ASN:OD1	2:d:1179:LEU:HD21	2.16	0.45
1:E:466:ASN:OD1	1:E:468:ARG:HB2	2.17	0.45
2:e:1046:TYR:OH	2:e:1095:LEU:HD22	2.17	0.45
1:F:413:SER:C	1:F:415:ASN:N	2.73	0.45
1:F:524:LYS:O	1:F:525:GLU:C	2.59	0.45
2:f:1085:PHE:CB	2:f:1089:ALA:HB2	2.45	0.45
1:G:360:LEU:HD12	1:G:361:ASN:N	2.29	0.45
1:G:377:VAL:CG1	1:G:398:GLU:HG3	2.41	0.45
1:G:608:ASP:O	1:G:612:VAL:HG23	2.17	0.45
2:g:1041:ARG:NH1	2:g:1218:CYS:SG	2.90	0.45
2:g:1045:LEU:HB2	2:g:1080:LEU:HD23	1.98	0.45
2:g:1045:LEU:HD12	2:g:1080:LEU:HD21	1.98	0.45
1:H:187:LEU:O	1:H:192:TYR:HD2	2.00	0.45
1:H:311:ALA:C	1:H:313:PHE:H	2.24	0.45
1:H:366:TYR:O	1:H:411:TYR:N	2.40	0.45
1:H:458:ASN:HD22	1:H:476:ASN:HD22	1.63	0.45
2:h:1046:TYR:OH	2:h:1095:LEU:HD22	2.17	0.45
1:I:195:ASP:CG	1:I:196:VAL:N	2.74	0.45
1:I:466:ASN:OD1	1:I:468:ARG:HB2	2.17	0.45
2:i:1124:LEU:O	2:i:1127:ALA:HB3	2.16	0.45
2:j:1041:ARG:NH1	2:j:1218:CYS:SG	2.90	0.45
2:j:1082:PHE:H	2:j:1093:LEU:HB3	1.80	0.45
2:j:1154:LEU:HB3	2:j:1158:TYR:CE2	2.52	0.45
2:k:1045:LEU:HB2	2:k:1080:LEU:HD23	1.98	0.45
2:m:1045:LEU:HD12	2:m:1080:LEU:HD21	1.98	0.45
2:m:1085:PHE:CB	2:m:1089:ALA:HB2	2.45	0.45
2:m:1124:LEU:O	2:m:1127:ALA:HB3	2.16	0.45
1:O:265:ASP:HA	1:O:295:THR:HG21	1.99	0.45
2:o:1045:LEU:CD2	2:o:1142:ILE:HB	2.47	0.45
2:o:1124:LEU:O	2:o:1127:ALA:HB3	2.16	0.45
1:A:346:TRP:CZ3	1:A:443:GLU:HA	2.51	0.45
2:a:1046:TYR:OH	2:a:1095:LEU:HD22	2.17	0.45
1:B:607:ALA:H	1:B:638:ILE:CD1	2.20	0.45
1:B:665:ILE:HG13	1:B:666:SER:N	2.30	0.45
1:C:187:LEU:O	1:C:192:TYR:HD2	2.00	0.45
2:c:1124:LEU:O	2:c:1127:ALA:HB3	2.16	0.45
1:D:206:TRP:HA	1:D:206:TRP:HE3	1.80	0.45
1:D:305:GLY:HA2	1:E:670:GLN:CG	2.47	0.45
1:E:179:ASP:O	1:E:180:ASN:HB3	2.17	0.45
1:E:458:ASN:OD1	1:E:473:THR:HA	2.16	0.45
1:E:658:ASP:C	1:E:718:THR:HG23	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:200:ARG:HG2	1:F:200:ARG:HH11	1.81	0.45
1:F:466:ASN:OD1	1:F:468:ARG:HB2	2.17	0.45
1:G:353:ASN:O	1:G:354:THR:C	2.60	0.45
2:g:1040:ARG:HA	2:g:1041:ARG:NH1	2.31	0.45
1:I:187:LEU:O	1:I:192:TYR:HD2	2.00	0.45
1:I:253:HIS:HA	1:I:254:PRO:HD3	1.89	0.45
1:I:265:ASP:HA	1:I:295:THR:HG21	1.99	0.45
1:I:410:TYR:CD1	1:I:410:TYR:N	2.85	0.45
2:i:1041:ARG:NH1	2:i:1218:CYS:SG	2.90	0.45
1:J:179:ASP:O	1:J:180:ASN:HB3	2.17	0.45
1:J:464:PHE:CD2	1:J:465:GLU:N	2.82	0.45
1:K:601:ASN:HB2	1:K:603:ILE:HD11	1.99	0.45
2:k:1041:ARG:NH1	2:k:1218:CYS:SG	2.90	0.45
2:k:1046:TYR:OH	2:k:1095:LEU:HD22	2.17	0.45
2:l:1041:ARG:NH1	2:l:1218:CYS:SG	2.90	0.45
2:l:1154:LEU:HB3	2:l:1158:TYR:CE2	2.52	0.45
1:M:198:ASN:O	1:M:199:LYS:HD2	2.16	0.45
1:M:265:ASP:HA	1:M:295:THR:HG21	1.99	0.45
2:o:1154:LEU:HB3	2:o:1158:TYR:CE2	2.52	0.45
1:B:224:GLU:OE2	1:C:201:THR:CG2	2.59	0.45
1:C:458:ASN:OD1	1:C:473:THR:HA	2.16	0.45
1:C:658:ASP:C	1:C:718:THR:HG23	2.41	0.45
2:c:1041:ARG:NH1	2:c:1218:CYS:SG	2.90	0.45
2:c:1046:TYR:OH	2:c:1095:LEU:HD22	2.17	0.45
1:D:608:ASP:O	1:D:612:VAL:HG23	2.17	0.45
1:E:411:TYR:CD2	1:E:412:PRO:N	2.84	0.45
1:E:721:ILE:CG2	1:E:722:LYS:N	2.80	0.45
2:e:1065:PHE:O	2:e:1069:LEU:HB2	2.17	0.45
2:e:1154:LEU:HB3	2:e:1158:TYR:CE2	2.52	0.45
1:F:608:ASP:O	1:F:612:VAL:HG23	2.17	0.45
1:G:271:LEU:CD1	1:G:289:ILE:HD11	2.36	0.45
1:G:341:ALA:CB	2:g:1153:GLY:HA3	2.42	0.45
1:G:383:LEU:HD23	1:G:383:LEU:C	2.42	0.45
1:G:596:PHE:CD1	1:G:596:PHE:N	2.84	0.45
1:I:721:ILE:CG2	1:I:722:LYS:N	2.80	0.45
2:i:1045:LEU:HD12	2:i:1080:LEU:HD21	1.98	0.45
2:k:1146:LEU:CD1	2:k:1176:VAL:HB	2.42	0.45
2:k:1163:ALA:HB1	2:k:1189:ILE:O	2.16	0.45
1:L:311:ALA:C	1:L:313:PHE:H	2.24	0.45
2:l:1163:ALA:HB1	2:l:1189:ILE:O	2.16	0.45
1:M:383:LEU:HD23	1:M:383:LEU:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:m:1041:ARG:NH1	2:m:1218:CYS:SG	2.90	0.45
1:A:199:LYS:HG3	1:F:189:VAL:CG1	2.45	0.45
1:A:608:ASP:O	1:A:612:VAL:HG23	2.17	0.45
1:A:691:ASN:HB3	1:A:694:TYR:CE2	2.52	0.45
2:a:1051:LYS:O	2:a:1051:LYS:HG3	2.16	0.45
2:a:1058:ASN:OD1	2:a:1179:LEU:HD21	2.17	0.45
2:a:1065:PHE:O	2:a:1069:LEU:HB2	2.17	0.45
1:B:250:GLU:OE1	1:B:250:GLU:N	2.48	0.45
1:B:608:ASP:O	1:B:612:VAL:HG23	2.17	0.45
2:b:1041:ARG:NH1	2:b:1218:CYS:SG	2.90	0.45
1:C:466:ASN:OD1	1:C:468:ARG:HB2	2.17	0.45
1:D:227:SER:O	1:D:230:SER:N	2.39	0.45
1:D:413:SER:C	1:D:415:ASN:N	2.73	0.45
1:D:414:LYS:CG	1:O:319:SER:HA	2.47	0.45
1:E:608:ASP:O	1:E:612:VAL:HG23	2.17	0.45
2:e:1058:ASN:OD1	2:e:1179:LEU:HD21	2.17	0.45
2:e:1073:PHE:HB3	2:e:1078:MET:HG3	1.99	0.45
2:f:1046:TYR:OH	2:f:1095:LEU:HD22	2.17	0.45
2:f:1154:LEU:HB3	2:f:1158:TYR:CE2	2.52	0.45
1:G:187:LEU:O	1:G:192:TYR:HD2	2.00	0.45
1:G:471:VAL:CG2	1:M:479:GLU:HG2	2.46	0.45
1:G:691:ASN:HB3	1:G:694:TYR:CE2	2.52	0.45
2:g:1046:TYR:OH	2:g:1095:LEU:HD22	2.17	0.45
2:g:1047:PHE:HB2	2:g:1082:PHE:HD1	1.81	0.45
1:H:179:ASP:O	1:H:180:ASN:HB3	2.17	0.45
1:H:383:LEU:HD23	1:H:383:LEU:C	2.42	0.45
1:H:466:ASN:OD1	1:H:468:ARG:HB2	2.17	0.45
2:h:1058:ASN:OD1	2:h:1179:LEU:HD21	2.16	0.45
2:h:1065:PHE:O	2:h:1069:LEU:HB2	2.17	0.45
1:I:512:ASP:OD1	1:J:245:LYS:HE3	2.17	0.45
1:I:691:ASN:HB3	1:I:694:TYR:CE2	2.52	0.45
2:j:1040:ARG:HA	2:j:1041:ARG:NH1	2.31	0.45
1:K:353:ASN:O	1:K:354:THR:C	2.60	0.45
1:K:607:ALA:N	1:K:638:ILE:HD12	2.22	0.45
1:K:608:ASP:O	1:K:612:VAL:HG23	2.17	0.45
2:k:1208:GLY:O	2:k:1212:SER:HB2	2.17	0.45
1:L:179:ASP:O	1:L:180:ASN:HB3	2.17	0.45
2:l:1146:LEU:CD1	2:l:1176:VAL:HB	2.42	0.45
1:M:410:TYR:N	1:M:410:TYR:CD1	2.85	0.45
1:O:410:TYR:N	1:O:410:TYR:CD1	2.85	0.45
2:o:1185:GLN:HG3	2:o:1189:ILE:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:1208:GLY:O	2:o:1212:SER:HB2	2.17	0.45
1:A:466:ASN:OD1	1:A:468:ARG:HB2	2.17	0.45
2:a:1146:LEU:CD1	2:a:1176:VAL:HB	2.42	0.45
1:B:179:ASP:O	1:B:180:ASN:HB3	2.17	0.45
1:B:383:LEU:HD23	1:B:383:LEU:C	2.42	0.45
1:B:691:ASN:HB3	1:B:694:TYR:CE2	2.52	0.45
1:C:721:ILE:CG2	1:C:722:LYS:N	2.80	0.45
2:c:1047:PHE:HB2	2:c:1082:PHE:HD1	1.81	0.45
2:c:1051:LYS:HG3	2:c:1051:LYS:O	2.16	0.45
1:D:187:LEU:O	1:D:192:TYR:HD2	2.00	0.45
1:D:311:ALA:C	1:D:313:PHE:H	2.24	0.45
2:d:1154:LEU:HB3	2:d:1158:TYR:CE2	2.52	0.45
1:E:232:PRO:O	1:E:233:TYR:CG	2.70	0.45
1:E:691:ASN:HB3	1:E:694:TYR:CE2	2.52	0.45
2:e:1208:GLY:O	2:e:1212:SER:HB2	2.17	0.45
1:F:187:LEU:O	1:F:192:TYR:HD2	2.00	0.45
1:F:220:LYS:O	1:F:519:PRO:HG2	2.16	0.45
1:F:253:HIS:HE1	1:F:255:LEU:HG	1.83	0.45
1:F:383:LEU:C	1:F:383:LEU:HD23	2.42	0.45
2:f:1208:GLY:O	2:f:1212:SER:HB2	2.17	0.45
2:g:1049:LEU:N	2:g:1083:ILE:O	2.43	0.45
1:H:341:ALA:CB	2:h:1153:GLY:HA3	2.42	0.45
1:H:377:VAL:CG1	1:H:398:GLU:HG3	2.41	0.45
1:H:601:ASN:HB2	1:H:603:ILE:HD11	1.99	0.45
2:h:1124:LEU:O	2:h:1127:ALA:HB3	2.16	0.45
1:I:200:ARG:HH11	1:I:200:ARG:HG2	1.81	0.45
1:I:306:ASN:HA	1:J:669:ARG:CB	2.47	0.45
1:J:311:ALA:C	1:J:313:PHE:H	2.24	0.45
1:J:608:ASP:O	1:J:612:VAL:HG23	2.17	0.45
1:K:609:GLU:HG2	1:K:724:ILE:CD1	2.47	0.45
2:l:1045:LEU:HD12	2:l:1080:LEU:HD21	1.98	0.45
1:M:179:ASP:O	1:M:180:ASN:HB3	2.17	0.45
1:M:609:GLU:HG2	1:M:724:ILE:CD1	2.47	0.45
1:M:691:ASN:HB3	1:M:694:TYR:CE2	2.52	0.45
2:m:1051:LYS:HG3	2:m:1051:LYS:O	2.16	0.45
2:m:1058:ASN:OD1	2:m:1179:LEU:HD21	2.16	0.45
1:O:607:ALA:N	1:O:638:ILE:HD12	2.22	0.45
1:A:227:SER:O	1:A:230:SER:N	2.39	0.44
1:A:383:LEU:C	1:A:383:LEU:HD23	2.42	0.44
1:A:601:ASN:HB2	1:A:603:ILE:HD11	1.99	0.44
1:B:466:ASN:OD1	1:B:468:ARG:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1073:PHE:HB3	2:b:1078:MET:HG3	1.99	0.44
2:b:1124:LEU:O	2:b:1127:ALA:HB3	2.16	0.44
2:b:1208:GLY:O	2:b:1212:SER:HB2	2.17	0.44
1:C:179:ASP:O	1:C:180:ASN:HB3	2.17	0.44
1:C:220:LYS:O	1:C:519:PRO:HG2	2.17	0.44
2:c:1045:LEU:CD2	2:c:1142:ILE:HB	2.47	0.44
2:d:1046:TYR:OH	2:d:1095:LEU:HD22	2.17	0.44
2:e:1041:ARG:NH1	2:e:1218:CYS:SG	2.90	0.44
1:F:377:VAL:CG1	1:F:398:GLU:HG3	2.41	0.44
2:f:1045:LEU:HB2	2:f:1080:LEU:HD23	1.98	0.44
1:G:240:THR:O	1:M:513:PRO:HB2	2.17	0.44
1:G:265:ASP:HA	1:G:295:THR:HG21	1.99	0.44
1:I:481:LEU:N	1:I:482:PRO:CD	2.74	0.44
1:I:524:LYS:O	1:I:525:GLU:C	2.59	0.44
1:J:226:TRP:CG	1:K:466:ASN:CA	2.99	0.44
1:J:250:GLU:OE1	1:J:250:GLU:N	2.48	0.44
1:K:200:ARG:HG2	1:K:200:ARG:HH11	1.81	0.44
1:K:410:TYR:N	1:K:410:TYR:CD1	2.85	0.44
1:K:691:ASN:HB3	1:K:694:TYR:CE2	2.52	0.44
1:L:601:ASN:HB2	1:L:603:ILE:HD11	1.99	0.44
1:L:609:GLU:HG2	1:L:724:ILE:CD1	2.47	0.44
1:L:721:ILE:CG2	1:L:722:LYS:N	2.80	0.44
2:l:1046:TYR:OH	2:l:1095:LEU:HD22	2.17	0.44
2:l:1208:GLY:O	2:l:1212:SER:HB2	2.17	0.44
1:M:458:ASN:HD22	1:M:476:ASN:HD22	1.63	0.44
1:M:481:LEU:HA	1:M:484:ILE:HD13	1.99	0.44
1:O:481:LEU:N	1:O:482:PRO:CD	2.74	0.44
1:O:601:ASN:HB2	1:O:603:ILE:HD11	1.99	0.44
2:o:1041:ARG:NH1	2:o:1218:CYS:SG	2.90	0.44
2:o:1046:TYR:OH	2:o:1095:LEU:HD22	2.17	0.44
2:a:1073:PHE:HB3	2:a:1078:MET:HG3	1.99	0.44
1:B:270:ILE:CG2	1:B:361:ASN:HB3	2.46	0.44
2:b:1154:LEU:HB3	2:b:1158:TYR:CE2	2.52	0.44
1:C:232:PRO:O	1:C:233:TYR:CG	2.70	0.44
1:C:524:LYS:O	1:C:525:GLU:C	2.59	0.44
1:D:232:PRO:O	1:D:233:TYR:CG	2.70	0.44
1:D:265:ASP:HA	1:D:295:THR:HG21	1.99	0.44
1:D:353:ASN:O	1:D:354:THR:C	2.60	0.44
1:D:469:VAL:HG21	1:O:483:GLN:HE21	1.78	0.44
1:E:189:VAL:HG13	1:F:199:LYS:HG3	1.99	0.44
1:F:345:THR:O	1:F:346:TRP:C	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:1051:LYS:O	2:f:1051:LYS:HG3	2.16	0.44
2:g:1065:PHE:O	2:g:1069:LEU:HB2	2.17	0.44
1:H:270:ILE:CG2	1:H:361:ASN:HB3	2.46	0.44
2:h:1154:LEU:HB3	2:h:1158:TYR:CE2	2.52	0.44
2:h:1163:ALA:HB1	2:h:1189:ILE:O	2.16	0.44
2:i:1065:PHE:O	2:i:1069:LEU:HB2	2.17	0.44
1:J:466:ASN:OD1	1:J:468:ARG:HB2	2.17	0.44
2:j:1045:LEU:HB2	2:j:1080:LEU:HD23	1.98	0.44
2:j:1065:PHE:O	2:j:1069:LEU:HB2	2.17	0.44
2:j:1073:PHE:HB3	2:j:1078:MET:HG3	1.99	0.44
1:K:189:VAL:CG1	1:L:199:LYS:CG	2.95	0.44
1:K:497:ASP:C	1:K:498:LEU:HD22	2.41	0.44
1:K:596:PHE:CD1	1:K:596:PHE:N	2.84	0.44
1:L:466:ASN:OD1	1:L:468:ARG:HB2	2.17	0.44
2:l:1065:PHE:O	2:l:1069:LEU:HB2	2.17	0.44
1:M:360:LEU:HD12	1:M:361:ASN:N	2.29	0.44
1:M:601:ASN:HB2	1:M:603:ILE:HD11	1.99	0.44
1:O:187:LEU:O	1:O:192:TYR:HD2	2.00	0.44
1:O:383:LEU:HD23	1:O:383:LEU:C	2.42	0.44
1:A:200:ARG:N	1:A:200:ARG:CD	2.71	0.44
1:A:232:PRO:O	1:A:233:TYR:CG	2.70	0.44
2:a:1086:SER:OG	2:a:1087:SER:N	2.50	0.44
2:b:1045:LEU:CD2	2:b:1142:ILE:HB	2.47	0.44
1:C:608:ASP:O	1:C:612:VAL:HG23	2.17	0.44
2:c:1154:LEU:HB3	2:c:1158:TYR:CE2	2.52	0.44
1:D:217:THR:HG22	1:D:218:LYS:H	1.83	0.44
1:D:266:MET:CA	1:D:364:ILE:HG22	2.47	0.44
1:D:377:VAL:CG1	1:D:398:GLU:HG3	2.41	0.44
1:D:383:LEU:HD23	1:D:383:LEU:C	2.42	0.44
2:d:1208:GLY:O	2:d:1212:SER:HB2	2.17	0.44
1:E:187:LEU:O	1:E:192:TYR:HD2	2.00	0.44
1:F:358:ALA:O	1:F:434:MET:HB3	2.18	0.44
1:F:481:LEU:HA	1:F:484:ILE:HD13	1.99	0.44
1:G:270:ILE:CG2	1:G:361:ASN:HB3	2.46	0.44
2:h:1185:GLN:HE21	2:h:1189:ILE:CG1	2.31	0.44
2:h:1208:GLY:O	2:h:1212:SER:HB2	2.17	0.44
1:I:308:GLU:OE2	1:J:667:SER:HB3	2.17	0.44
1:J:353:ASN:O	1:J:354:THR:C	2.60	0.44
1:J:360:LEU:HD12	1:J:361:ASN:N	2.29	0.44
1:J:524:LYS:O	1:J:525:GLU:C	2.59	0.44
2:j:1086:SER:OG	2:j:1087:SER:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:358:ALA:O	1:K:434:MET:HB3	2.18	0.44
2:k:1073:PHE:HB3	2:k:1078:MET:HG3	1.99	0.44
1:L:353:ASN:O	1:L:354:THR:C	2.60	0.44
1:L:365:ARG:HH11	1:L:414:LYS:HD3	1.82	0.44
1:M:608:ASP:O	1:M:612:VAL:HG23	2.17	0.44
2:m:1040:ARG:HA	2:m:1041:ARG:NH1	2.31	0.44
2:m:1154:LEU:HB3	2:m:1158:TYR:CE2	2.52	0.44
2:m:1208:GLY:O	2:m:1212:SER:HB2	2.17	0.44
1:O:232:PRO:O	1:O:233:TYR:CG	2.70	0.44
2:o:1058:ASN:OD1	2:o:1179:LEU:HD21	2.17	0.44
1:A:192:TYR:CD1	1:A:192:TYR:C	2.96	0.44
1:A:253:HIS:HE1	1:A:255:LEU:HG	1.83	0.44
1:B:358:ALA:O	1:B:434:MET:HB3	2.18	0.44
1:B:481:LEU:HA	1:B:484:ILE:HD13	1.99	0.44
1:B:601:ASN:HB2	1:B:603:ILE:HD11	1.99	0.44
1:E:221:SER:O	1:E:519:PRO:HG3	2.18	0.44
1:E:377:VAL:CG1	1:E:398:GLU:HG3	2.41	0.44
1:F:596:PHE:CD1	1:F:596:PHE:N	2.84	0.44
1:F:607:ALA:H	1:F:638:ILE:CD1	2.20	0.44
1:F:638:ILE:HG13	1:F:639:LEU:HD22	2.00	0.44
2:f:1058:ASN:OD1	2:f:1179:LEU:HD21	2.16	0.44
2:g:1154:LEU:HB3	2:g:1158:TYR:CE2	2.52	0.44
1:H:192:TYR:C	1:H:192:TYR:CD1	2.96	0.44
1:H:271:LEU:CD1	1:H:289:ILE:HD11	2.36	0.44
2:h:1073:PHE:HB3	2:h:1078:MET:HG3	1.99	0.44
1:I:189:VAL:HG13	1:J:199:LYS:CG	2.47	0.44
1:K:699:TYR:HD1	1:K:725:LEU:HA	1.83	0.44
1:L:217:THR:HG22	1:L:218:LYS:H	1.83	0.44
2:l:1051:LYS:HG3	2:l:1051:LYS:O	2.16	0.44
1:O:195:ASP:CG	1:O:196:VAL:N	2.74	0.44
1:O:609:GLU:HG2	1:O:724:ILE:CD1	2.47	0.44
1:A:221:SER:O	1:A:519:PRO:HG3	2.18	0.44
1:A:358:ALA:O	1:A:434:MET:HB3	2.18	0.44
1:A:410:TYR:N	1:A:410:TYR:CD1	2.85	0.44
1:A:721:ILE:CG2	1:A:722:LYS:N	2.80	0.44
1:B:187:LEU:O	1:B:192:TYR:HD2	2.00	0.44
1:C:206:TRP:HA	1:C:206:TRP:HE3	1.80	0.44
1:C:253:HIS:HE1	1:C:255:LEU:HG	1.82	0.44
1:C:353:ASN:O	1:C:354:THR:C	2.60	0.44
1:C:691:ASN:HB3	1:C:694:TYR:CE2	2.52	0.44
1:D:220:LYS:O	1:D:519:PRO:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:245:LYS:H	1:O:483:GLN:HE22	1.66	0.44
1:D:691:ASN:HB3	1:D:694:TYR:CE2	2.52	0.44
2:d:1051:LYS:HG3	2:d:1051:LYS:O	2.16	0.44
1:E:253:HIS:HE1	1:E:255:LEU:HG	1.83	0.44
1:E:266:MET:CA	1:E:364:ILE:HG22	2.47	0.44
1:E:609:GLU:HG2	1:E:724:ILE:CD1	2.47	0.44
1:F:657:ASN:HB2	1:F:662:MET:CB	2.44	0.44
1:F:691:ASN:HB3	1:F:694:TYR:CE2	2.52	0.44
1:G:221:SER:O	1:G:519:PRO:HG3	2.18	0.44
1:G:358:ALA:O	1:G:434:MET:HB3	2.18	0.44
1:G:398:GLU:C	1:G:400:GLN:N	2.69	0.44
1:H:265:ASP:HA	1:H:295:THR:HG21	1.99	0.44
1:H:609:GLU:HG2	1:H:724:ILE:CD1	2.47	0.44
1:H:638:ILE:HG13	1:H:639:LEU:HD22	2.00	0.44
2:h:1065:PHE:HZ	2:h:1209:ILE:HD12	1.83	0.44
2:h:1185:GLN:HG3	2:h:1189:ILE:CD1	2.47	0.44
1:I:189:VAL:CG1	1:J:199:LYS:CG	2.96	0.44
1:I:221:SER:O	1:I:519:PRO:HG3	2.18	0.44
1:J:358:ALA:O	1:J:434:MET:HB3	2.18	0.44
1:J:458:ASN:OD1	1:J:473:THR:HA	2.16	0.44
1:K:383:LEU:HD23	1:K:383:LEU:C	2.42	0.44
1:L:232:PRO:O	1:L:233:TYR:CG	2.71	0.44
1:L:358:ALA:O	1:L:434:MET:HB3	2.18	0.44
1:M:200:ARG:N	1:M:200:ARG:CD	2.71	0.44
1:M:270:ILE:CG2	1:M:361:ASN:HB3	2.46	0.44
1:M:353:ASN:O	1:M:354:THR:C	2.60	0.44
1:O:721:ILE:CG2	1:O:722:LYS:N	2.80	0.44
1:B:232:PRO:O	1:B:233:TYR:CG	2.70	0.44
1:B:253:HIS:HE1	1:B:255:LEU:HG	1.82	0.44
2:b:1146:LEU:CD1	2:b:1176:VAL:HB	2.42	0.44
2:b:1185:GLN:HE21	2:b:1189:ILE:CG1	2.31	0.44
1:D:483:GLN:NE2	1:E:245:LYS:H	2.16	0.44
1:E:358:ALA:O	1:E:434:MET:HB3	2.18	0.44
2:e:1185:GLN:HE21	2:e:1189:ILE:CG1	2.31	0.44
1:F:179:ASP:O	1:F:180:ASN:HB3	2.17	0.44
2:f:1086:SER:OG	2:f:1087:SER:N	2.50	0.44
1:G:239:VAL:O	1:M:513:PRO:HG2	2.17	0.44
1:G:699:TYR:HD1	1:G:725:LEU:HA	1.83	0.44
1:G:721:ILE:CG2	1:G:722:LYS:N	2.80	0.44
1:H:691:ASN:HB3	1:H:694:TYR:CE2	2.52	0.44
1:I:358:ALA:O	1:I:434:MET:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:608:ASP:O	1:I:612:VAL:HG23	2.17	0.44
1:I:638:ILE:HG13	1:I:639:LEU:HD22	2.00	0.44
2:i:1065:PHE:HZ	2:i:1209:ILE:HD12	1.83	0.44
1:J:232:PRO:O	1:J:233:TYR:CG	2.71	0.44
1:J:480:VAL:HG21	1:K:468:ARG:HH11	1.82	0.44
2:j:1208:GLY:O	2:j:1212:SER:HB2	2.17	0.44
2:k:1051:LYS:O	2:k:1051:LYS:HG3	2.16	0.44
2:k:1065:PHE:O	2:k:1069:LEU:HB2	2.17	0.44
2:k:1154:LEU:HB3	2:k:1158:TYR:CE2	2.52	0.44
1:L:253:HIS:HE1	1:L:255:LEU:HG	1.82	0.44
1:L:483:GLN:NE2	1:M:245:LYS:H	2.16	0.44
1:L:608:ASP:O	1:L:612:VAL:HG23	2.17	0.44
1:M:358:ALA:O	1:M:434:MET:HB3	2.18	0.44
1:M:638:ILE:HG13	1:M:639:LEU:HD22	2.00	0.44
2:m:1185:GLN:HG3	2:m:1189:ILE:CD1	2.47	0.44
2:m:1185:GLN:HE21	2:m:1189:ILE:CG1	2.31	0.44
1:O:365:ARG:HH11	1:O:414:LYS:HD3	1.81	0.44
1:O:691:ASN:HB3	1:O:694:TYR:CE2	2.52	0.44
1:O:699:TYR:HD1	1:O:725:LEU:HA	1.83	0.44
2:o:1049:LEU:N	2:o:1083:ILE:O	2.43	0.44
1:A:179:ASP:O	1:A:180:ASN:HB3	2.17	0.44
1:A:318:GLY:HA2	1:B:410:TYR:HE1	1.79	0.44
2:a:1154:LEU:HB3	2:a:1158:TYR:CE2	2.52	0.44
1:B:353:ASN:O	1:B:354:THR:C	2.60	0.44
1:B:721:ILE:CG2	1:B:722:LYS:N	2.80	0.44
1:C:195:ASP:CG	1:C:196:VAL:N	2.74	0.44
1:C:358:ALA:O	1:C:434:MET:HB3	2.18	0.44
1:C:601:ASN:HB2	1:C:603:ILE:HD11	1.99	0.44
1:D:192:TYR:CD1	1:D:192:TYR:C	2.96	0.44
1:D:196:VAL:HG21	1:O:516:THR:CG2	2.47	0.44
2:d:1065:PHE:HZ	2:d:1209:ILE:HD12	1.83	0.44
2:e:1065:PHE:HZ	2:e:1209:ILE:HD12	1.83	0.44
1:F:699:TYR:HD1	1:F:725:LEU:HA	1.83	0.44
2:f:1073:PHE:HB3	2:f:1078:MET:HG3	1.99	0.44
1:G:318:GLY:C	1:G:320:VAL:H	2.26	0.44
1:H:217:THR:HG22	1:H:218:LYS:H	1.83	0.44
1:H:226:TRP:CG	1:I:466:ASN:HA	2.53	0.44
1:H:410:TYR:CD1	1:H:410:TYR:N	2.85	0.44
1:I:253:HIS:HE1	1:I:255:LEU:HG	1.82	0.44
1:I:601:ASN:HB2	1:I:603:ILE:HD11	1.99	0.44
1:J:187:LEU:O	1:J:192:TYR:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:253:HIS:HE1	1:J:255:LEU:HG	1.82	0.44
1:J:383:LEU:HD23	1:J:383:LEU:C	2.42	0.44
1:J:480:VAL:HG21	1:K:468:ARG:HG3	1.99	0.44
1:J:601:ASN:HB2	1:J:603:ILE:HD11	1.99	0.44
2:j:1051:LYS:HG3	2:j:1051:LYS:O	2.16	0.44
1:K:466:ASN:OD1	1:K:468:ARG:HB2	2.17	0.44
1:L:638:ILE:HG13	1:L:639:LEU:HD22	2.00	0.44
1:O:318:GLY:C	1:O:320:VAL:H	2.26	0.44
1:O:360:LEU:HD12	1:O:361:ASN:N	2.29	0.44
1:O:466:ASN:OD1	1:O:468:ARG:HB2	2.17	0.44
1:A:239:VAL:O	1:F:513:PRO:HG2	2.18	0.44
1:A:265:ASP:HA	1:A:295:THR:HG21	1.99	0.44
1:A:483:GLN:NE2	1:B:245:LYS:H	2.16	0.44
1:A:699:TYR:HD1	1:A:725:LEU:HA	1.83	0.44
2:b:1185:GLN:HG3	2:b:1189:ILE:CD1	2.47	0.44
1:D:601:ASN:HB2	1:D:603:ILE:HD11	1.99	0.44
1:E:192:TYR:C	1:E:192:TYR:CD1	2.96	0.44
1:E:395:LYS:O	1:E:395:LYS:HG2	2.18	0.44
1:F:192:TYR:CD1	1:F:192:TYR:C	2.96	0.44
2:f:1049:LEU:N	2:f:1083:ILE:O	2.43	0.44
1:G:253:HIS:HE1	1:G:255:LEU:HG	1.83	0.44
2:g:1045:LEU:CD2	2:g:1142:ILE:HB	2.47	0.44
2:g:1051:LYS:HG3	2:g:1051:LYS:O	2.17	0.44
2:g:1208:GLY:O	2:g:1212:SER:HB2	2.17	0.44
2:h:1146:LEU:CD1	2:h:1176:VAL:HB	2.42	0.44
1:I:217:THR:HG22	1:I:218:LYS:H	1.83	0.44
1:I:699:TYR:HD1	1:I:725:LEU:HA	1.83	0.44
1:K:253:HIS:HA	1:K:254:PRO:HD3	1.89	0.44
1:K:318:GLY:C	1:K:320:VAL:H	2.26	0.44
1:K:638:ILE:HG13	1:K:639:LEU:HD22	2.00	0.44
1:L:341:ALA:CB	2:l:1153:GLY:HA3	2.42	0.44
1:L:395:LYS:HG2	1:L:395:LYS:O	2.18	0.44
1:M:232:PRO:O	1:M:233:TYR:CG	2.71	0.44
1:M:266:MET:CA	1:M:364:ILE:HG22	2.47	0.44
1:M:318:GLY:C	1:M:320:VAL:H	2.26	0.44
1:M:395:LYS:O	1:M:395:LYS:HG2	2.18	0.44
2:m:1046:TYR:OH	2:m:1095:LEU:HD22	2.17	0.44
1:O:266:MET:CA	1:O:364:ILE:HG22	2.47	0.44
1:O:608:ASP:O	1:O:612:VAL:HG23	2.17	0.44
2:o:1073:PHE:HB3	2:o:1078:MET:HG3	1.99	0.44
1:A:253:HIS:HA	1:A:254:PRO:HD3	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:ARG:HH11	1:A:414:LYS:HD3	1.82	0.44
1:A:490:ARG:HB2	1:A:504:ARG:NH1	2.33	0.44
2:a:1185:GLN:HG3	2:a:1189:ILE:CD1	2.47	0.44
1:B:265:ASP:HA	1:B:295:THR:HG21	1.99	0.44
1:B:413:SER:C	1:B:415:ASN:N	2.73	0.44
1:B:512:ASP:OD1	1:C:245:LYS:HE3	2.18	0.44
1:B:524:LYS:O	1:B:525:GLU:C	2.59	0.44
1:C:481:LEU:N	1:C:482:PRO:CD	2.75	0.44
1:C:638:ILE:HG13	1:C:639:LEU:HD22	2.00	0.44
1:D:183:ILE:HD13	1:D:192:TYR:CZ	2.53	0.44
1:D:470:ARG:HA	1:O:479:GLU:OE1	2.18	0.44
1:E:183:ILE:HD13	1:E:192:TYR:CZ	2.53	0.44
1:E:217:THR:HG22	1:E:218:LYS:H	1.83	0.44
1:E:224:GLU:OE2	1:F:201:THR:OG1	2.35	0.44
1:E:265:ASP:HA	1:E:295:THR:HG21	1.99	0.44
1:F:253:HIS:HA	1:F:254:PRO:HD3	1.88	0.44
1:F:360:LEU:HD12	1:F:361:ASN:N	2.29	0.44
1:F:721:ILE:CG2	1:F:722:LYS:N	2.80	0.44
2:f:1185:GLN:HE21	2:f:1189:ILE:CG1	2.31	0.44
1:G:266:MET:CA	1:G:364:ILE:HG22	2.47	0.44
1:H:699:TYR:HD1	1:H:725:LEU:HA	1.83	0.44
2:i:1073:PHE:HB3	2:i:1078:MET:HG3	1.99	0.44
2:i:1208:GLY:O	2:i:1212:SER:HB2	2.17	0.44
1:J:200:ARG:N	1:J:200:ARG:CD	2.71	0.44
1:J:609:GLU:HG2	1:J:724:ILE:CD1	2.47	0.44
1:K:192:TYR:CD1	1:K:192:TYR:C	2.96	0.44
1:L:335:ASP:OD1	1:L:337:SER:HB2	2.18	0.44
1:L:383:LEU:HD23	1:L:383:LEU:C	2.42	0.44
2:l:1049:LEU:N	2:l:1083:ILE:O	2.43	0.44
2:l:1086:SER:OG	2:l:1087:SER:N	2.50	0.44
2:m:1065:PHE:HZ	2:m:1209:ILE:HD12	1.83	0.44
1:O:179:ASP:O	1:O:180:ASN:HB3	2.17	0.44
1:A:187:LEU:HD23	1:A:205:PRO:HB3	2.00	0.43
1:A:415:ASN:ND2	1:F:325:SER:OG	2.51	0.43
2:a:1045:LEU:CD2	2:a:1142:ILE:HB	2.47	0.43
1:B:217:THR:HG22	1:B:218:LYS:H	1.83	0.43
1:B:226:TRP:CD2	1:C:466:ASN:HB2	2.53	0.43
1:C:265:ASP:HA	1:C:295:THR:HG21	1.99	0.43
1:C:481:LEU:HA	1:C:484:ILE:HD13	1.99	0.43
1:C:490:ARG:HB2	1:C:504:ARG:NH1	2.33	0.43
1:C:676:ILE:HG22	1:C:677:ASP:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:1208:GLY:O	2:c:1212:SER:HB2	2.17	0.43
2:d:1073:PHE:HB3	2:d:1078:MET:HG3	1.99	0.43
1:E:601:ASN:HB2	1:E:603:ILE:HD11	1.99	0.43
1:E:699:TYR:HD1	1:E:725:LEU:HA	1.83	0.43
2:e:1084:VAL:O	2:e:1084:VAL:HG23	2.18	0.43
1:F:335:ASP:OD1	1:F:337:SER:HB2	2.18	0.43
1:F:609:GLU:HG2	1:F:724:ILE:CD1	2.47	0.43
1:G:335:ASP:OD1	1:G:337:SER:HB2	2.18	0.43
1:G:609:GLU:HG2	1:G:724:ILE:CD1	2.47	0.43
1:G:638:ILE:HG13	1:G:639:LEU:HD22	2.00	0.43
1:H:183:ILE:HD13	1:H:192:TYR:CZ	2.53	0.43
1:H:232:PRO:O	1:H:233:TYR:CG	2.70	0.43
2:h:1045:LEU:CD2	2:h:1142:ILE:HB	2.47	0.43
1:I:232:PRO:O	1:I:233:TYR:CG	2.71	0.43
1:I:609:GLU:HG2	1:I:724:ILE:CD1	2.47	0.43
2:i:1046:TYR:OH	2:i:1095:LEU:HD22	2.17	0.43
2:i:1154:LEU:HB3	2:i:1158:TYR:CE2	2.52	0.43
1:J:183:ILE:HD13	1:J:192:TYR:CZ	2.53	0.43
1:J:691:ASN:HB3	1:J:694:TYR:CE2	2.52	0.43
1:J:721:ILE:CG2	1:J:722:LYS:N	2.80	0.43
2:j:1185:GLN:HE21	2:j:1189:ILE:CG1	2.31	0.43
1:K:365:ARG:HH11	1:K:414:LYS:HD3	1.82	0.43
1:K:481:LEU:HA	1:K:484:ILE:HD13	1.99	0.43
1:K:721:ILE:CG2	1:K:722:LYS:N	2.80	0.43
2:k:1065:PHE:HZ	2:k:1209:ILE:HD12	1.83	0.43
1:L:691:ASN:HB3	1:L:694:TYR:CE2	2.52	0.43
2:l:1073:PHE:HB3	2:l:1078:MET:HG3	1.99	0.43
1:M:699:TYR:HD1	1:M:725:LEU:HA	1.83	0.43
1:M:721:ILE:CG2	1:M:722:LYS:N	2.80	0.43
2:m:1163:ALA:HB1	2:m:1189:ILE:O	2.16	0.43
1:O:183:ILE:HD13	1:O:192:TYR:CZ	2.53	0.43
1:A:395:LYS:HG2	1:A:395:LYS:O	2.18	0.43
2:a:1185:GLN:HE21	2:a:1189:ILE:CG1	2.31	0.43
1:B:221:SER:O	1:B:519:PRO:HG3	2.18	0.43
1:B:676:ILE:HG22	1:B:677:ASP:N	2.34	0.43
2:b:1065:PHE:HZ	2:b:1209:ILE:HD12	1.83	0.43
2:b:1084:VAL:O	2:b:1084:VAL:HG23	2.19	0.43
1:C:183:ILE:HD13	1:C:192:TYR:CZ	2.53	0.43
2:c:1065:PHE:HZ	2:c:1209:ILE:HD12	1.83	0.43
2:c:1066:VAL:O	2:c:1066:VAL:HG12	2.19	0.43
1:D:221:SER:O	1:D:519:PRO:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:HIS:HE1	1:D:255:LEU:HG	1.82	0.43
1:D:395:LYS:HG2	1:D:395:LYS:O	2.18	0.43
1:D:483:GLN:HE22	1:E:245:LYS:H	1.66	0.43
2:d:1146:LEU:CD1	2:d:1176:VAL:HB	2.42	0.43
1:E:638:ILE:HG13	1:E:639:LEU:HD22	2.00	0.43
1:F:183:ILE:HD13	1:F:192:TYR:CZ	2.53	0.43
1:F:187:LEU:HD23	1:F:205:PRO:HB3	2.00	0.43
1:F:318:GLY:C	1:F:320:VAL:H	2.26	0.43
2:f:1046:TYR:HB2	2:f:1143:ILE:HA	2.00	0.43
1:G:337:SER:CB	1:G:664:ASN:HB2	2.49	0.43
1:G:456:TYR:N	1:G:456:TYR:CD2	2.86	0.43
1:I:225:LYS:NZ	1:I:515:GLU:OE2	2.45	0.43
1:J:676:ILE:HG22	1:J:677:ASP:N	2.34	0.43
1:J:699:TYR:HD1	1:J:725:LEU:HA	1.83	0.43
2:j:1046:TYR:OH	2:j:1095:LEU:HD22	2.17	0.43
2:j:1065:PHE:HZ	2:j:1209:ILE:HD12	1.83	0.43
1:K:232:PRO:O	1:K:233:TYR:CG	2.70	0.43
2:k:1185:GLN:HE21	2:k:1189:ILE:CG1	2.31	0.43
1:L:481:LEU:HA	1:L:484:ILE:HD13	1.99	0.43
1:L:490:ARG:HB2	1:L:504:ARG:NH1	2.33	0.43
1:M:221:SER:O	1:M:519:PRO:HG3	2.18	0.43
1:M:253:HIS:HE1	1:M:255:LEU:HG	1.83	0.43
1:M:394:ILE:CG2	1:M:421:LEU:HD22	2.39	0.43
2:m:1086:SER:OG	2:m:1087:SER:N	2.50	0.43
1:O:221:SER:O	1:O:519:PRO:HG3	2.18	0.43
1:O:337:SER:CB	1:O:664:ASN:HB2	2.49	0.43
2:o:1065:PHE:HZ	2:o:1209:ILE:HD12	1.83	0.43
1:A:217:THR:HG22	1:A:218:LYS:H	1.83	0.43
1:A:335:ASP:OD1	1:A:337:SER:HB2	2.18	0.43
1:A:609:GLU:HG2	1:A:724:ILE:CD1	2.47	0.43
2:a:1046:TYR:HB2	2:a:1143:ILE:HA	2.00	0.43
1:B:183:ILE:HD13	1:B:192:TYR:CZ	2.53	0.43
1:B:192:TYR:CD1	1:B:192:TYR:C	2.96	0.43
1:C:423:ALA:C	1:C:424:GLN:CG	2.86	0.43
1:C:458:ASN:HD22	1:C:458:ASN:N	2.17	0.43
1:C:699:TYR:HD1	1:C:725:LEU:HA	1.83	0.43
1:D:410:TYR:N	1:D:410:TYR:CD1	2.85	0.43
1:D:609:GLU:HG2	1:D:724:ILE:CD1	2.47	0.43
1:D:699:TYR:HD1	1:D:725:LEU:HA	1.83	0.43
1:E:337:SER:CB	1:E:664:ASN:HB2	2.49	0.43
2:e:1046:TYR:HB2	2:e:1143:ILE:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:598:TYR:HA	1:F:605:VAL:HG23	2.00	0.43
2:f:1125:LYS:C	2:f:1127:ALA:N	2.76	0.43
1:G:483:GLN:HE22	1:H:245:LYS:N	2.15	0.43
1:G:490:ARG:HB2	1:G:504:ARG:NH1	2.33	0.43
1:G:601:ASN:HB2	1:G:603:ILE:HD11	1.99	0.43
1:H:221:SER:O	1:H:519:PRO:HG3	2.18	0.43
1:H:483:GLN:CG	1:I:469:VAL:HG21	2.47	0.43
1:H:676:ILE:HG22	1:H:677:ASP:N	2.33	0.43
1:I:192:TYR:CD1	1:I:192:TYR:C	2.96	0.43
2:i:1045:LEU:HB2	2:i:1080:LEU:HD23	1.98	0.43
2:i:1084:VAL:HG23	2:i:1084:VAL:O	2.19	0.43
2:i:1086:SER:OG	2:i:1087:SER:N	2.50	0.43
1:J:481:LEU:HA	1:J:484:ILE:HD13	1.99	0.43
1:J:607:ALA:H	1:J:638:ILE:CD1	2.21	0.43
1:K:179:ASP:O	1:K:180:ASN:HB3	2.17	0.43
1:K:183:ILE:HD13	1:K:192:TYR:CZ	2.53	0.43
1:K:187:LEU:O	1:K:192:TYR:HD2	2.00	0.43
1:L:221:SER:O	1:L:519:PRO:HG3	2.18	0.43
1:L:337:SER:CB	1:L:664:ASN:HB2	2.49	0.43
1:L:479:GLU:OE1	1:M:470:ARG:HG3	2.18	0.43
1:L:479:GLU:HG2	1:M:471:VAL:HG23	2.00	0.43
1:L:676:ILE:HG22	1:L:677:ASP:N	2.34	0.43
1:M:598:TYR:HA	1:M:605:VAL:HG23	2.00	0.43
2:o:1086:SER:OG	2:o:1087:SER:N	2.50	0.43
2:o:1163:ALA:O	2:o:1166:SER:HB2	2.19	0.43
1:A:220:LYS:O	1:A:519:PRO:HG2	2.16	0.43
1:A:598:TYR:HA	1:A:605:VAL:HG23	2.00	0.43
1:A:676:ILE:HG22	1:A:677:ASP:N	2.33	0.43
1:B:598:TYR:HA	1:B:605:VAL:HG23	2.00	0.43
1:B:609:GLU:HG2	1:B:724:ILE:CD1	2.47	0.43
1:B:699:TYR:HD1	1:B:725:LEU:HA	1.83	0.43
1:C:221:SER:O	1:C:519:PRO:HG3	2.18	0.43
2:c:1046:TYR:HB2	2:c:1143:ILE:HA	2.00	0.43
2:c:1185:GLN:HE21	2:c:1189:ILE:CG1	2.31	0.43
1:D:335:ASP:OD1	1:D:337:SER:HB2	2.18	0.43
1:D:638:ILE:HG13	1:D:639:LEU:HD22	2.00	0.43
2:d:1084:VAL:HG23	2:d:1084:VAL:O	2.18	0.43
1:F:221:SER:O	1:F:519:PRO:HG3	2.18	0.43
1:F:337:SER:CB	1:F:664:ASN:HB2	2.49	0.43
1:F:601:ASN:HB2	1:F:603:ILE:HD11	1.99	0.43
2:f:1065:PHE:HZ	2:f:1209:ILE:HD12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:1084:VAL:O	2:f:1084:VAL:HG23	2.18	0.43
1:G:365:ARG:HH11	1:G:414:LYS:HD3	1.81	0.43
1:H:335:ASP:OD1	1:H:337:SER:HB2	2.18	0.43
1:H:358:ALA:O	1:H:434:MET:HB3	2.18	0.43
1:I:316:ILE:HD11	1:J:496:LYS:CB	2.40	0.43
1:J:187:LEU:HD23	1:J:205:PRO:HB3	2.00	0.43
1:J:192:TYR:CD1	1:J:192:TYR:C	2.96	0.43
1:J:217:THR:HG22	1:J:218:LYS:H	1.83	0.43
1:J:221:SER:O	1:J:519:PRO:HG3	2.18	0.43
1:K:266:MET:CA	1:K:364:ILE:HG22	2.47	0.43
1:K:395:LYS:O	1:K:395:LYS:HG2	2.18	0.43
1:K:490:ARG:HB2	1:K:504:ARG:NH1	2.33	0.43
2:k:1066:VAL:O	2:k:1066:VAL:HG12	2.19	0.43
2:k:1084:VAL:HG23	2:k:1084:VAL:O	2.19	0.43
1:M:337:SER:CB	1:M:664:ASN:HB2	2.49	0.43
1:M:490:ARG:HB2	1:M:504:ARG:NH1	2.33	0.43
1:M:607:ALA:N	1:M:638:ILE:HD12	2.22	0.43
1:A:337:SER:CB	1:A:664:ASN:HB2	2.49	0.43
1:D:360:LEU:HD12	1:D:361:ASN:N	2.29	0.43
1:D:521:MET:HA	1:D:521:MET:CE	2.37	0.43
1:E:360:LEU:HD12	1:E:361:ASN:N	2.29	0.43
1:F:404:ILE:N	1:F:404:ILE:CD1	2.82	0.43
1:G:232:PRO:O	1:G:233:TYR:CG	2.71	0.43
1:G:521:MET:HA	1:G:521:MET:CE	2.37	0.43
1:G:598:TYR:HA	1:G:605:VAL:HG23	2.00	0.43
2:g:1058:ASN:OD1	2:g:1179:LEU:HD21	2.17	0.43
1:H:187:LEU:HD23	1:H:205:PRO:HB3	2.00	0.43
1:H:353:ASN:O	1:H:354:THR:C	2.60	0.43
2:i:1046:TYR:HB2	2:i:1143:ILE:HA	2.00	0.43
1:J:335:ASP:OD1	1:J:337:SER:HB2	2.18	0.43
1:J:479:GLU:CG	1:K:471:VAL:HG23	2.44	0.43
2:j:1046:TYR:HB2	2:j:1143:ILE:HA	2.00	0.43
1:K:221:SER:O	1:K:519:PRO:HG3	2.18	0.43
1:K:337:SER:CB	1:K:664:ASN:HB2	2.49	0.43
2:k:1046:TYR:HB2	2:k:1143:ILE:HA	2.00	0.43
1:L:227:SER:O	1:L:230:SER:N	2.39	0.43
1:L:458:ASN:HD22	1:L:458:ASN:N	2.17	0.43
1:O:456:TYR:N	1:O:456:TYR:CD2	2.87	0.43
1:O:481:LEU:HA	1:O:484:ILE:HD13	1.99	0.43
1:A:404:ILE:N	1:A:404:ILE:CD1	2.82	0.43
1:A:481:LEU:HA	1:A:484:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1208:GLY:O	2:a:1212:SER:HB2	2.17	0.43
1:B:365:ARG:HH11	1:B:414:LYS:HD3	1.82	0.43
1:B:394:ILE:CG2	1:B:421:LEU:HD22	2.39	0.43
1:B:490:ARG:HB2	1:B:504:ARG:NH1	2.33	0.43
1:C:266:MET:CA	1:C:364:ILE:HG22	2.47	0.43
1:C:318:GLY:C	1:C:320:VAL:H	2.26	0.43
1:C:598:TYR:HA	1:C:605:VAL:HG23	2.00	0.43
1:D:316:ILE:CD1	1:E:496:LYS:HB3	2.49	0.43
1:D:458:ASN:HD22	1:D:458:ASN:N	2.17	0.43
2:d:1066:VAL:O	2:d:1066:VAL:HG12	2.19	0.43
1:E:318:GLY:C	1:E:320:VAL:H	2.26	0.43
1:E:343:GLU:CA	2:e:1154:LEU:HD12	2.49	0.43
1:E:423:ALA:O	1:E:424:GLN:HG2	2.17	0.43
1:E:490:ARG:HB2	1:E:504:ARG:NH1	2.33	0.43
2:e:1086:SER:OG	2:e:1087:SER:N	2.50	0.43
1:F:217:THR:HG22	1:F:218:LYS:H	1.83	0.43
1:F:232:PRO:O	1:F:233:TYR:CG	2.70	0.43
1:F:398:GLU:O	1:F:400:GLN:N	2.52	0.43
1:F:490:ARG:HB2	1:F:504:ARG:NH1	2.33	0.43
1:G:183:ILE:HD13	1:G:192:TYR:CZ	2.53	0.43
2:g:1065:PHE:HZ	2:g:1209:ILE:HD12	1.83	0.43
2:g:1073:PHE:HB3	2:g:1078:MET:HG3	1.99	0.43
1:H:253:HIS:HE1	1:H:255:LEU:HG	1.83	0.43
1:H:318:GLY:C	1:H:320:VAL:H	2.26	0.43
1:H:481:LEU:HA	1:H:484:ILE:HD13	1.99	0.43
1:H:608:ASP:O	1:H:612:VAL:HG23	2.17	0.43
2:h:1051:LYS:HG3	2:h:1051:LYS:O	2.16	0.43
1:I:183:ILE:HD13	1:I:192:TYR:CZ	2.53	0.43
1:I:187:LEU:HD23	1:I:205:PRO:HB3	2.01	0.43
1:I:335:ASP:OD1	1:I:337:SER:HB2	2.18	0.43
1:I:398:GLU:O	1:I:400:GLN:N	2.52	0.43
1:I:481:LEU:HA	1:I:484:ILE:HD13	1.99	0.43
2:i:1163:ALA:O	2:i:1166:SER:HB2	2.19	0.43
2:k:1163:ALA:O	2:k:1166:SER:HB2	2.19	0.43
1:L:266:MET:CA	1:L:364:ILE:HG22	2.47	0.43
1:L:598:TYR:HA	1:L:605:VAL:HG23	2.00	0.43
1:M:187:LEU:HD23	1:M:205:PRO:HB3	2.00	0.43
1:M:423:ALA:O	1:M:424:GLN:HG2	2.17	0.43
2:m:1045:LEU:CD2	2:m:1142:ILE:HB	2.47	0.43
1:O:192:TYR:CD1	1:O:192:TYR:C	2.96	0.43
1:O:398:GLU:O	1:O:400:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:1084:VAL:HG23	2:o:1084:VAL:O	2.19	0.43
1:A:183:ILE:HD13	1:A:192:TYR:CZ	2.53	0.43
1:A:596:PHE:CD1	1:A:596:PHE:N	2.84	0.43
2:a:1045:LEU:HB2	2:a:1080:LEU:HD23	1.98	0.43
1:B:335:ASP:OD1	1:B:337:SER:HB2	2.18	0.43
1:B:638:ILE:HG13	1:B:639:LEU:HD22	2.00	0.43
2:b:1046:TYR:HB2	2:b:1143:ILE:HA	2.00	0.43
1:C:217:THR:HG22	1:C:218:LYS:H	1.83	0.43
2:c:1073:PHE:HB3	2:c:1078:MET:HG3	1.99	0.43
2:c:1163:ALA:O	2:c:1166:SER:HB2	2.19	0.43
1:D:676:ILE:HG22	1:D:677:ASP:N	2.33	0.43
2:d:1046:TYR:HB2	2:d:1143:ILE:HA	2.00	0.43
1:F:410:TYR:N	1:F:410:TYR:CD1	2.85	0.43
1:G:187:LEU:HD23	1:G:205:PRO:HB3	2.01	0.43
1:G:192:TYR:CD1	1:G:192:TYR:C	2.96	0.43
1:G:395:LYS:O	1:G:395:LYS:HG2	2.18	0.43
1:I:337:SER:CB	1:I:664:ASN:HB2	2.49	0.43
1:K:398:GLU:O	1:K:400:GLN:N	2.52	0.43
2:k:1086:SER:OG	2:k:1087:SER:N	2.50	0.43
1:L:398:GLU:O	1:L:400:GLN:N	2.52	0.43
2:l:1065:PHE:HZ	2:l:1209:ILE:HD12	1.83	0.43
1:M:398:GLU:O	1:M:400:GLN:N	2.52	0.43
1:O:217:THR:HG22	1:O:218:LYS:H	1.83	0.43
1:O:335:ASP:OD1	1:O:337:SER:HB2	2.18	0.43
1:O:638:ILE:HG13	1:O:639:LEU:HD22	2.00	0.43
1:B:187:LEU:HD23	1:B:205:PRO:HB3	2.00	0.43
1:C:335:ASP:OD1	1:C:337:SER:HB2	2.18	0.43
1:C:365:ARG:HH11	1:C:414:LYS:HD3	1.82	0.43
1:C:395:LYS:O	1:C:395:LYS:HG2	2.18	0.43
1:C:609:GLU:HG2	1:C:724:ILE:CD1	2.47	0.43
1:D:187:LEU:HD23	1:D:205:PRO:HB3	2.00	0.43
1:D:195:ASP:CG	1:D:196:VAL:N	2.74	0.43
1:D:318:GLY:C	1:D:320:VAL:H	2.26	0.43
1:D:398:GLU:O	1:D:400:GLN:N	2.52	0.43
1:D:414:LYS:HE3	1:O:319:SER:N	2.34	0.43
1:D:481:LEU:HA	1:D:484:ILE:HD13	1.99	0.43
2:d:1163:ALA:O	2:d:1166:SER:HB2	2.19	0.43
2:d:1185:GLN:HE21	2:d:1189:ILE:CG1	2.31	0.43
1:E:458:ASN:HD22	1:E:458:ASN:N	2.17	0.43
1:F:395:LYS:O	1:F:395:LYS:HG2	2.18	0.43
1:G:481:LEU:HA	1:G:484:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g:1046:TYR:HB2	2:g:1143:ILE:HA	2.00	0.43
2:g:1185:GLN:HE21	2:g:1189:ILE:CG1	2.31	0.43
1:H:458:ASN:HD22	1:H:458:ASN:N	2.17	0.43
1:H:711:SER:C	1:H:713:ASN:N	2.77	0.43
2:h:1163:ALA:O	2:h:1166:SER:HB2	2.19	0.43
1:J:337:SER:CB	1:J:664:ASN:HB2	2.49	0.43
1:J:398:GLU:O	1:J:400:GLN:N	2.52	0.43
1:K:217:THR:HG22	1:K:218:LYS:H	1.83	0.43
1:K:335:ASP:OD1	1:K:337:SER:HB2	2.18	0.43
2:l:1045:LEU:CD2	2:l:1142:ILE:HB	2.47	0.43
1:M:192:TYR:C	1:M:192:TYR:CD1	2.96	0.43
1:M:217:THR:HG22	1:M:218:LYS:H	1.83	0.43
2:m:1073:PHE:HB3	2:m:1078:MET:HG3	1.99	0.43
1:O:358:ALA:O	1:O:434:MET:HB3	2.18	0.43
1:O:395:LYS:HG2	1:O:395:LYS:O	2.18	0.43
1:O:404:ILE:N	1:O:404:ILE:CD1	2.82	0.43
2:o:1046:TYR:HB2	2:o:1143:ILE:HA	2.00	0.43
1:A:315:ASP:OD1	1:B:497:ASP:OD1	2.37	0.43
2:a:1066:VAL:O	2:a:1066:VAL:HG12	2.18	0.43
1:B:343:GLU:CA	2:b:1154:LEU:HD12	2.49	0.43
1:B:395:LYS:O	1:B:395:LYS:HG2	2.18	0.43
2:b:1086:SER:OG	2:b:1087:SER:N	2.50	0.43
1:C:192:TYR:CD1	1:C:192:TYR:C	2.96	0.43
1:C:398:GLU:O	1:C:400:GLN:N	2.52	0.43
1:D:358:ALA:O	1:D:434:MET:HB3	2.18	0.43
1:D:660:TYR:CD1	1:D:660:TYR:C	2.97	0.43
2:d:1086:SER:OG	2:d:1087:SER:N	2.50	0.43
1:E:335:ASP:OD1	1:E:337:SER:HB2	2.18	0.43
1:E:456:TYR:N	1:E:456:TYR:CD2	2.86	0.43
1:E:676:ILE:HG22	1:E:677:ASP:N	2.34	0.43
2:e:1066:VAL:O	2:e:1066:VAL:HG12	2.18	0.43
2:e:1185:GLN:HG3	2:e:1189:ILE:CD1	2.47	0.43
1:F:676:ILE:HG22	1:F:677:ASP:N	2.33	0.43
1:G:179:ASP:O	1:G:180:ASN:HB3	2.17	0.43
2:g:1086:SER:OG	2:g:1087:SER:N	2.50	0.43
1:H:307:ALA:O	1:H:309:VAL:HG13	2.19	0.43
1:H:483:GLN:HG3	1:I:469:VAL:CG2	2.48	0.43
2:h:1084:VAL:O	2:h:1084:VAL:HG23	2.19	0.43
1:I:596:PHE:CD1	1:I:596:PHE:N	2.84	0.43
1:I:676:ILE:HG22	1:I:677:ASP:N	2.33	0.43
2:i:1049:LEU:HD23	2:i:1146:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:638:ILE:HG13	1:J:639:LEU:HD22	2.00	0.43
1:K:404:ILE:N	1:K:404:ILE:CD1	2.82	0.43
1:L:192:TYR:CD1	1:L:192:TYR:C	2.96	0.43
1:L:343:GLU:CA	2:l:1154:LEU:HD12	2.49	0.43
1:L:410:TYR:N	1:L:410:TYR:CD1	2.85	0.43
1:L:483:GLN:HE21	1:M:469:VAL:HG21	1.79	0.43
1:L:699:TYR:HD1	1:L:725:LEU:HA	1.83	0.43
2:l:1066:VAL:O	2:l:1066:VAL:HG12	2.19	0.43
2:l:1185:GLN:HE21	2:l:1189:ILE:CG1	2.31	0.43
1:M:234:SER:OG	1:M:237:GLU:HG3	2.19	0.43
1:O:253:HIS:HE1	1:O:255:LEU:HG	1.82	0.43
2:o:1146:LEU:CD1	2:o:1176:VAL:HB	2.42	0.43
1:A:343:GLU:CA	2:a:1154:LEU:HD12	2.49	0.43
1:A:498:LEU:N	1:A:498:LEU:CD2	2.82	0.43
2:a:1163:ALA:O	2:a:1166:SER:HB2	2.19	0.43
2:b:1049:LEU:HD23	2:b:1146:LEU:HD23	2.01	0.43
2:c:1185:GLN:HG3	2:c:1189:ILE:CD1	2.47	0.43
1:D:598:TYR:HA	1:D:605:VAL:HG23	2.00	0.43
1:D:721:ILE:CG2	1:D:722:LYS:N	2.80	0.43
1:E:227:SER:O	1:E:230:SER:N	2.39	0.43
1:E:234:SER:OG	1:E:237:GLU:HG3	2.19	0.43
1:E:481:LEU:HA	1:E:484:ILE:HD13	1.99	0.43
2:f:1066:VAL:O	2:f:1066:VAL:HG12	2.19	0.43
1:G:394:ILE:CG2	1:G:421:LEU:HD22	2.39	0.43
1:G:676:ILE:HG22	1:G:677:ASP:N	2.33	0.43
1:I:395:LYS:HG2	1:I:395:LYS:O	2.18	0.43
1:I:711:SER:C	1:I:713:ASN:N	2.77	0.43
1:J:410:TYR:N	1:J:410:TYR:CD1	2.85	0.43
2:j:1163:ALA:O	2:j:1166:SER:HB2	2.19	0.43
2:k:1185:GLN:HG3	2:k:1189:ILE:CD1	2.47	0.43
1:L:183:ILE:HD13	1:L:192:TYR:CZ	2.53	0.43
1:L:318:GLY:C	1:L:320:VAL:H	2.26	0.43
1:M:676:ILE:HG22	1:M:677:ASP:N	2.33	0.43
1:O:490:ARG:HB2	1:O:504:ARG:NH1	2.33	0.43
1:A:456:TYR:N	1:A:456:TYR:CD2	2.87	0.42
1:A:638:ILE:HG13	1:A:639:LEU:HD22	2.00	0.42
1:B:318:GLY:C	1:B:320:VAL:H	2.26	0.42
1:B:337:SER:CB	1:B:664:ASN:HB2	2.49	0.42
1:C:234:SER:OG	1:C:237:GLU:HG3	2.19	0.42
2:d:1185:GLN:HG3	2:d:1189:ILE:CD1	2.47	0.42
2:d:1214:LEU:C	2:d:1216:GLN:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:249:PRO:C	1:E:251:ALA:H	2.27	0.42
2:e:1125:LYS:C	2:e:1127:ALA:N	2.76	0.42
1:F:702:THR:OG1	1:F:705:ASN:ND2	2.52	0.42
2:f:1049:LEU:HD23	2:f:1146:LEU:HD23	2.01	0.42
1:G:343:GLU:CA	2:g:1154:LEU:HD12	2.49	0.42
1:H:266:MET:CA	1:H:364:ILE:HG22	2.47	0.42
1:H:490:ARG:HB2	1:H:504:ARG:NH1	2.33	0.42
1:H:683:ASP:OD2	2:h:1052:SER:HB2	2.19	0.42
1:H:702:THR:OG1	1:H:705:ASN:ND2	2.52	0.42
2:h:1049:LEU:HD23	2:h:1146:LEU:HD23	2.01	0.42
1:I:598:TYR:HA	1:I:605:VAL:HG23	2.00	0.42
1:J:318:GLY:C	1:J:320:VAL:H	2.26	0.42
1:K:456:TYR:N	1:K:456:TYR:CD2	2.87	0.42
1:L:711:SER:C	1:L:713:ASN:N	2.77	0.42
2:l:1084:VAL:HG23	2:l:1084:VAL:O	2.18	0.42
1:M:343:GLU:CA	2:m:1154:LEU:HD12	2.49	0.42
1:M:683:ASP:OD2	2:m:1052:SER:HB2	2.19	0.42
1:M:702:THR:OG1	1:M:705:ASN:ND2	2.52	0.42
2:m:1084:VAL:O	2:m:1084:VAL:HG23	2.18	0.42
2:m:1163:ALA:O	2:m:1166:SER:HB2	2.19	0.42
1:O:458:ASN:HD22	1:O:458:ASN:N	2.17	0.42
2:o:1185:GLN:HE21	2:o:1189:ILE:CG1	2.31	0.42
1:A:398:GLU:O	1:A:400:GLN:N	2.52	0.42
2:a:1065:PHE:HZ	2:a:1209:ILE:HD12	1.83	0.42
2:b:1066:VAL:HG12	2:b:1066:VAL:O	2.19	0.42
1:C:307:ALA:O	1:C:309:VAL:HG13	2.19	0.42
1:D:414:LYS:HG3	1:O:319:SER:CA	2.48	0.42
1:E:198:ASN:HB2	1:E:200:ARG:CD	2.50	0.42
1:E:497:ASP:HB3	1:E:498:LEU:H	1.75	0.42
1:E:598:TYR:HA	1:E:605:VAL:HG23	2.00	0.42
1:E:660:TYR:CD1	1:E:660:TYR:C	2.97	0.42
2:e:1049:LEU:HD23	2:e:1146:LEU:HD23	2.01	0.42
1:F:458:ASN:HD22	1:F:458:ASN:N	2.17	0.42
2:f:1185:GLN:HG3	2:f:1189:ILE:CD1	2.47	0.42
2:f:1194:GLU:C	2:f:1196:VAL:N	2.78	0.42
1:G:702:THR:OG1	1:G:705:ASN:ND2	2.52	0.42
2:g:1163:ALA:O	2:g:1166:SER:HB2	2.19	0.42
1:H:249:PRO:C	1:H:251:ALA:H	2.28	0.42
1:H:394:ILE:CG2	1:H:421:LEU:HD22	2.39	0.42
1:H:515:GLU:OE1	1:I:245:LYS:HE2	2.19	0.42
1:H:721:ILE:CG2	1:H:722:LYS:N	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:1046:TYR:HB2	2:h:1143:ILE:HA	2.00	0.42
2:h:1128:ASN:HA	2:h:1131:ILE:HD12	2.01	0.42
2:i:1185:GLN:HE21	2:i:1189:ILE:CG1	2.31	0.42
1:J:226:TRP:HB3	1:K:466:ASN:O	2.18	0.42
1:J:395:LYS:HG2	1:J:395:LYS:O	2.18	0.42
1:J:598:TYR:HA	1:J:605:VAL:HG23	2.00	0.42
1:J:702:THR:OG1	1:J:705:ASN:ND2	2.52	0.42
2:j:1084:VAL:O	2:j:1084:VAL:HG23	2.18	0.42
1:L:187:LEU:HD23	1:L:205:PRO:HB3	2.00	0.42
1:L:198:ASN:HB2	1:L:200:ARG:CD	2.50	0.42
1:L:683:ASP:OD2	2:l:1052:SER:HB2	2.19	0.42
1:M:225:LYS:NZ	1:M:515:GLU:OE2	2.45	0.42
1:M:249:PRO:C	1:M:251:ALA:H	2.27	0.42
1:M:250:GLU:OE1	1:M:250:GLU:N	2.48	0.42
1:M:335:ASP:OD1	1:M:337:SER:HB2	2.18	0.42
1:M:395:LYS:HZ3	1:M:398:GLU:CD	2.27	0.42
1:O:234:SER:OG	1:O:237:GLU:HG3	2.19	0.42
1:O:262:VAL:HG11	1:O:379:PRO:CG	2.48	0.42
1:O:343:GLU:CA	2:o:1154:LEU:HD12	2.49	0.42
2:o:1049:LEU:HD23	2:o:1146:LEU:HD23	2.01	0.42
1:A:249:PRO:C	1:A:251:ALA:H	2.27	0.42
1:A:318:GLY:C	1:A:320:VAL:H	2.26	0.42
2:b:1163:ALA:O	2:b:1166:SER:HB2	2.19	0.42
1:D:337:SER:CB	1:D:664:ASN:HB2	2.49	0.42
1:D:683:ASP:OD2	2:d:1052:SER:HB2	2.19	0.42
2:d:1045:LEU:CD2	2:d:1142:ILE:HB	2.47	0.42
2:d:1049:LEU:N	2:d:1083:ILE:O	2.43	0.42
1:E:702:THR:OG1	1:E:705:ASN:ND2	2.52	0.42
2:e:1163:ALA:O	2:e:1166:SER:HB2	2.19	0.42
1:F:512:ASP:OD1	1:F:515:GLU:HB2	2.20	0.42
2:f:1163:ALA:O	2:f:1166:SER:HB2	2.19	0.42
2:g:1066:VAL:O	2:g:1066:VAL:HG12	2.19	0.42
1:H:343:GLU:CA	2:h:1154:LEU:HD12	2.49	0.42
1:H:660:TYR:CD1	1:H:660:TYR:C	2.97	0.42
2:h:1066:VAL:O	2:h:1066:VAL:HG12	2.19	0.42
1:I:293:THR:HG22	1:I:334:ILE:HA	2.02	0.42
1:I:343:GLU:CA	2:i:1154:LEU:HD12	2.49	0.42
2:i:1128:ASN:HA	2:i:1131:ILE:HD12	2.02	0.42
1:J:293:THR:HG22	1:J:334:ILE:HA	2.02	0.42
1:J:490:ARG:HB2	1:J:504:ARG:NH1	2.33	0.42
1:K:187:LEU:HD23	1:K:205:PRO:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:198:ASN:HB2	1:K:200:ARG:CD	2.50	0.42
1:L:234:SER:OG	1:L:237:GLU:HG3	2.19	0.42
1:L:249:PRO:C	1:L:251:ALA:H	2.27	0.42
1:L:660:TYR:CD1	1:L:660:TYR:C	2.97	0.42
2:l:1185:GLN:HG3	2:l:1189:ILE:CD1	2.47	0.42
1:M:307:ALA:O	1:M:309:VAL:HG13	2.19	0.42
1:M:456:TYR:N	1:M:456:TYR:CD2	2.87	0.42
1:O:598:TYR:HA	1:O:605:VAL:HG23	2.00	0.42
2:o:1066:VAL:O	2:o:1066:VAL:HG12	2.19	0.42
1:A:702:THR:OG1	1:A:705:ASN:ND2	2.52	0.42
2:a:1049:LEU:N	2:a:1083:ILE:O	2.43	0.42
2:a:1125:LYS:C	2:a:1127:ALA:N	2.76	0.42
1:B:249:PRO:C	1:B:251:ALA:H	2.27	0.42
1:B:512:ASP:OD1	1:B:515:GLU:HB2	2.20	0.42
1:B:660:TYR:CD1	1:B:660:TYR:C	2.97	0.42
2:b:1214:LEU:C	2:b:1216:GLN:H	2.27	0.42
1:C:187:LEU:HD23	1:C:205:PRO:HB3	2.00	0.42
1:C:198:ASN:HB2	1:C:200:ARG:CD	2.50	0.42
1:C:337:SER:CB	1:C:664:ASN:HB2	2.49	0.42
1:C:343:GLU:CA	2:c:1154:LEU:HD12	2.49	0.42
1:C:498:LEU:N	1:C:498:LEU:CD2	2.82	0.42
1:C:512:ASP:OD1	1:C:515:GLU:HB2	2.20	0.42
1:C:711:SER:C	1:C:713:ASN:N	2.77	0.42
2:c:1128:ASN:HA	2:c:1131:ILE:HD12	2.02	0.42
1:D:298:THR:HG21	1:D:331:THR:OG1	2.20	0.42
1:D:702:THR:OG1	1:D:705:ASN:ND2	2.52	0.42
1:E:398:GLU:O	1:E:400:GLN:N	2.52	0.42
1:E:498:LEU:N	1:E:498:LEU:CD2	2.82	0.42
1:E:512:ASP:OD1	1:E:515:GLU:HB2	2.20	0.42
1:E:683:ASP:OD2	2:e:1052:SER:HB2	2.19	0.42
1:F:234:SER:OG	1:F:237:GLU:HG3	2.19	0.42
1:F:298:THR:HG21	1:F:331:THR:OG1	2.20	0.42
1:F:394:ILE:CG2	1:F:421:LEU:HD22	2.39	0.42
2:f:1146:LEU:CD1	2:f:1176:VAL:HB	2.42	0.42
1:G:178:ARG:CZ	1:H:200:ARG:HB3	2.48	0.42
1:H:226:TRP:CD1	1:I:466:ASN:HA	2.55	0.42
1:H:298:THR:HG21	1:H:331:THR:OG1	2.20	0.42
1:H:337:SER:CB	1:H:664:ASN:HB2	2.49	0.42
1:I:198:ASN:HB2	1:I:200:ARG:CD	2.50	0.42
1:I:318:GLY:C	1:I:320:VAL:H	2.26	0.42
1:I:490:ARG:HB2	1:I:504:ARG:NH1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:273:LYS:HG3	1:J:273:LYS:O	2.20	0.42
1:K:243:ILE:HG12	1:K:244:ASP:H	1.80	0.42
1:K:253:HIS:HE1	1:K:255:LEU:HG	1.83	0.42
1:K:293:THR:HG22	1:K:334:ILE:HA	2.01	0.42
2:k:1045:LEU:CD2	2:k:1142:ILE:HB	2.47	0.42
2:k:1125:LYS:C	2:k:1127:ALA:N	2.76	0.42
1:M:183:ILE:HD13	1:M:192:TYR:CZ	2.53	0.42
1:M:498:LEU:N	1:M:498:LEU:CD2	2.82	0.42
1:O:398:GLU:C	1:O:400:GLN:N	2.69	0.42
1:A:307:ALA:O	1:A:309:VAL:HG13	2.19	0.42
1:A:683:ASP:OD2	2:a:1052:SER:HB2	2.19	0.42
2:a:1084:VAL:O	2:a:1084:VAL:HG23	2.19	0.42
2:a:1128:ASN:HA	2:a:1131:ILE:HD12	2.02	0.42
1:B:198:ASN:HB2	1:B:200:ARG:CD	2.50	0.42
1:B:243:ILE:HG12	1:B:244:ASP:H	1.80	0.42
1:C:658:ASP:O	1:C:717:SER:HA	2.20	0.42
1:C:660:TYR:CD1	1:C:660:TYR:C	2.97	0.42
2:c:1084:VAL:HG23	2:c:1084:VAL:O	2.19	0.42
1:E:366:TYR:O	1:E:411:TYR:N	2.40	0.42
2:e:1146:LEU:CD1	2:e:1176:VAL:HB	2.42	0.42
1:F:198:ASN:HB2	1:F:200:ARG:CD	2.50	0.42
1:F:273:LYS:O	1:F:273:LYS:HG3	2.20	0.42
1:F:343:GLU:CA	2:f:1154:LEU:HD12	2.49	0.42
1:G:683:ASP:OD2	2:g:1052:SER:HB2	2.19	0.42
2:g:1084:VAL:O	2:g:1084:VAL:HG23	2.18	0.42
2:g:1146:LEU:CD1	2:g:1176:VAL:HB	2.42	0.42
1:H:273:LYS:O	1:H:273:LYS:HG3	2.20	0.42
1:H:395:LYS:O	1:H:395:LYS:HG2	2.18	0.42
2:h:1084:VAL:O	2:h:1089:ALA:HA	2.20	0.42
2:h:1125:LYS:C	2:h:1127:ALA:N	2.76	0.42
1:J:224:GLU:OE2	1:K:201:THR:HG23	2.20	0.42
1:K:234:SER:OG	1:K:237:GLU:HG3	2.19	0.42
1:K:249:PRO:C	1:K:251:ALA:H	2.28	0.42
1:K:250:GLU:OE1	1:K:250:GLU:N	2.48	0.42
1:L:307:ALA:O	1:L:309:VAL:HG13	2.19	0.42
1:L:456:TYR:CD2	1:L:456:TYR:N	2.87	0.42
1:L:498:LEU:N	1:L:498:LEU:CD2	2.82	0.42
2:m:1066:VAL:O	2:m:1066:VAL:HG12	2.19	0.42
2:m:1214:LEU:C	2:m:1216:GLN:H	2.27	0.42
1:O:298:THR:HG21	1:O:331:THR:OG1	2.20	0.42
2:o:1045:LEU:HB2	2:o:1080:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:1049:LEU:HD23	2:a:1146:LEU:HD23	2.01	0.42
2:a:1214:LEU:C	2:a:1216:GLN:H	2.28	0.42
1:B:298:THR:HG21	1:B:331:THR:OG1	2.20	0.42
1:D:456:TYR:N	1:D:456:TYR:CD2	2.87	0.42
2:d:1128:ASN:HA	2:d:1131:ILE:HD12	2.01	0.42
1:E:187:LEU:HD23	1:E:205:PRO:HB3	2.00	0.42
1:E:298:THR:HG21	1:E:331:THR:OG1	2.20	0.42
1:E:380:THR:HG23	1:E:395:LYS:HD2	2.02	0.42
1:E:410:TYR:N	1:E:410:TYR:CD1	2.85	0.42
2:e:1045:LEU:CD2	2:e:1142:ILE:HB	2.47	0.42
1:F:249:PRO:C	1:F:251:ALA:H	2.28	0.42
2:f:1045:LEU:CD2	2:f:1142:ILE:HB	2.47	0.42
1:G:200:ARG:HB3	1:M:178:ARG:NH1	2.34	0.42
1:G:458:ASN:HD22	1:G:458:ASN:N	2.17	0.42
1:G:498:LEU:N	1:G:498:LEU:CD2	2.82	0.42
1:G:665:ILE:HG13	1:G:666:SER:H	1.85	0.42
2:g:1084:VAL:O	2:g:1089:ALA:HA	2.20	0.42
1:H:512:ASP:OD1	1:H:515:GLU:HB2	2.20	0.42
1:H:665:ILE:HG13	1:H:666:SER:H	1.85	0.42
2:h:1214:LEU:C	2:h:1216:GLN:H	2.27	0.42
1:I:249:PRO:C	1:I:251:ALA:H	2.27	0.42
1:I:512:ASP:OD1	1:I:515:GLU:HB2	2.20	0.42
1:I:702:THR:OG1	1:I:705:ASN:ND2	2.52	0.42
1:J:198:ASN:HB2	1:J:200:ARG:CD	2.50	0.42
1:J:266:MET:CA	1:J:364:ILE:HG22	2.47	0.42
1:J:307:ALA:O	1:J:309:VAL:HG13	2.19	0.42
1:J:660:TYR:CD1	1:J:660:TYR:C	2.97	0.42
2:j:1128:ASN:HA	2:j:1131:ILE:HD12	2.02	0.42
1:K:547:ILE:O	1:K:547:ILE:HG13	2.20	0.42
1:K:598:TYR:HA	1:K:605:VAL:HG23	2.00	0.42
1:K:676:ILE:HG22	1:K:677:ASP:N	2.34	0.42
2:k:1049:LEU:HD23	2:k:1146:LEU:HD23	2.01	0.42
2:k:1128:ASN:HA	2:k:1131:ILE:HD12	2.01	0.42
1:L:596:PHE:CD1	1:L:596:PHE:N	2.84	0.42
1:L:607:ALA:N	1:L:638:ILE:HD12	2.22	0.42
1:M:198:ASN:HB2	1:M:200:ARG:CD	2.50	0.42
1:M:660:TYR:C	1:M:660:TYR:CD1	2.97	0.42
2:m:1046:TYR:HB2	2:m:1143:ILE:HA	2.00	0.42
2:m:1194:GLU:C	2:m:1196:VAL:N	2.78	0.42
1:O:198:ASN:HB2	1:O:200:ARG:CD	2.50	0.42
1:O:273:LYS:HG3	1:O:273:LYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:676:ILE:HG22	1:O:677:ASP:N	2.34	0.42
1:O:702:THR:OG1	1:O:705:ASN:ND2	2.52	0.42
1:O:711:SER:C	1:O:713:ASN:N	2.77	0.42
1:A:234:SER:OG	1:A:237:GLU:HG3	2.19	0.42
1:A:293:THR:HG22	1:A:334:ILE:HA	2.02	0.42
1:A:366:TYR:O	1:A:411:TYR:N	2.40	0.42
1:B:658:ASP:O	1:B:717:SER:HA	2.20	0.42
1:B:683:ASP:OD2	2:b:1052:SER:HB2	2.19	0.42
1:C:547:ILE:O	1:C:547:ILE:HG13	2.20	0.42
2:c:1045:LEU:HB2	2:c:1080:LEU:HD22	2.02	0.42
2:c:1195:GLN:HA	2:c:1197:PHE:HE1	1.85	0.42
2:c:1214:LEU:C	2:c:1216:GLN:H	2.28	0.42
1:D:468:ARG:HG3	1:O:480:VAL:HG21	2.01	0.42
1:D:498:LEU:N	1:D:498:LEU:CD2	2.82	0.42
1:D:584:ASN:N	1:D:584:ASN:HD22	2.18	0.42
1:D:658:ASP:O	1:D:717:SER:HA	2.20	0.42
1:E:596:PHE:CD1	1:E:596:PHE:N	2.84	0.42
2:e:1128:ASN:HA	2:e:1131:ILE:HD12	2.01	0.42
1:F:453:ASP:CG	1:F:455:VAL:HG12	2.45	0.42
1:G:263:HIS:CG	1:G:297:ARG:HG3	2.55	0.42
1:G:398:GLU:O	1:G:400:GLN:N	2.52	0.42
1:G:660:TYR:CD1	1:G:660:TYR:C	2.97	0.42
1:H:198:ASN:HB2	1:H:200:ARG:CD	2.50	0.42
1:H:380:THR:HG23	1:H:395:LYS:HD2	2.02	0.42
1:I:456:TYR:N	1:I:456:TYR:CD2	2.87	0.42
1:I:584:ASN:N	1:I:584:ASN:HD22	2.18	0.42
2:j:1045:LEU:HB2	2:j:1080:LEU:HD22	2.02	0.42
1:K:702:THR:OG1	1:K:705:ASN:ND2	2.52	0.42
2:k:1214:LEU:C	2:k:1216:GLN:H	2.27	0.42
1:L:273:LYS:HG3	1:L:273:LYS:O	2.20	0.42
1:L:702:THR:OG1	1:L:705:ASN:ND2	2.52	0.42
2:l:1125:LYS:C	2:l:1127:ALA:N	2.76	0.42
2:l:1163:ALA:O	2:l:1166:SER:HB2	2.19	0.42
1:M:293:THR:HG22	1:M:334:ILE:HA	2.02	0.42
1:M:635:ILE:O	1:M:637:LYS:N	2.53	0.42
1:M:658:ASP:O	1:M:717:SER:HA	2.20	0.42
1:O:187:LEU:HD23	1:O:205:PRO:HB3	2.00	0.42
1:O:307:ALA:O	1:O:309:VAL:HG13	2.19	0.42
1:O:498:LEU:N	1:O:498:LEU:CD2	2.82	0.42
1:A:198:ASN:HB2	1:A:200:ARG:CD	2.50	0.42
1:A:263:HIS:CG	1:A:297:ARG:HG3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:490:ARG:HH11	1:A:502:GLU:CD	2.28	0.42
1:A:547:ILE:HG13	1:A:547:ILE:O	2.20	0.42
1:A:660:TYR:CD1	1:A:660:TYR:C	2.97	0.42
1:B:404:ILE:N	1:B:404:ILE:CD1	2.82	0.42
1:C:189:VAL:HG11	1:O:199:LYS:HG2	2.01	0.42
1:C:298:THR:HG21	1:C:331:THR:OG1	2.20	0.42
1:C:635:ILE:O	1:C:637:LYS:N	2.53	0.42
1:C:683:ASP:OD2	2:c:1052:SER:HB2	2.19	0.42
1:D:198:ASN:HB2	1:D:200:ARG:CD	2.50	0.42
2:d:1195:GLN:HA	2:d:1197:PHE:HE1	1.85	0.42
1:E:242:ARG:HB3	1:E:462:TYR:CZ	2.55	0.42
1:E:627:LEU:HD11	1:E:727:PHE:CD2	2.55	0.42
1:E:665:ILE:HG13	1:E:666:SER:H	1.85	0.42
2:e:1084:VAL:O	2:e:1089:ALA:HA	2.20	0.42
1:F:242:ARG:HB3	1:F:462:TYR:CZ	2.55	0.42
1:F:263:HIS:CG	1:F:297:ARG:HG3	2.55	0.42
1:F:380:THR:HG23	1:F:395:LYS:HD2	2.02	0.42
1:F:481:LEU:N	1:F:482:PRO:CD	2.74	0.42
1:F:490:ARG:HH11	1:F:502:GLU:CD	2.28	0.42
1:G:380:THR:HG23	1:G:395:LYS:HD2	2.02	0.42
1:G:512:ASP:OD1	1:G:515:GLU:HB2	2.20	0.42
1:H:305:GLY:CA	1:I:670:GLN:CG	2.93	0.42
1:H:398:GLU:O	1:H:400:GLN:N	2.52	0.42
1:H:658:ASP:O	1:H:717:SER:HA	2.20	0.42
2:h:1195:GLN:HA	2:h:1197:PHE:HE1	1.85	0.42
1:I:243:ILE:HG12	1:I:244:ASP:H	1.80	0.42
1:I:298:THR:HG21	1:I:331:THR:OG1	2.20	0.42
1:I:404:ILE:N	1:I:404:ILE:CD1	2.82	0.42
1:I:627:LEU:HD11	1:I:727:PHE:CD2	2.55	0.42
1:I:658:ASP:O	1:I:717:SER:HA	2.20	0.42
1:I:683:ASP:OD2	2:i:1052:SER:HB2	2.19	0.42
1:J:226:TRP:CB	1:K:466:ASN:O	2.67	0.42
1:K:221:SER:HB2	1:K:222:SER:H	1.76	0.42
1:K:307:ALA:O	1:K:309:VAL:HG13	2.19	0.42
1:K:458:ASN:HD22	1:K:458:ASN:N	2.17	0.42
1:K:584:ASN:N	1:K:584:ASN:HD22	2.18	0.42
1:K:660:TYR:CD1	1:K:660:TYR:C	2.97	0.42
2:k:1084:VAL:O	2:k:1089:ALA:HA	2.20	0.42
1:L:293:THR:HG22	1:L:334:ILE:HA	2.02	0.42
1:L:658:ASP:O	1:L:717:SER:HA	2.20	0.42
2:l:1046:TYR:HB2	2:l:1143:ILE:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:627:LEU:HD11	1:M:727:PHE:CD2	2.55	0.42
1:O:293:THR:HG22	1:O:334:ILE:HA	2.02	0.42
1:O:683:ASP:OD2	2:o:1052:SER:HB2	2.19	0.42
1:A:242:ARG:HB3	1:A:462:TYR:CZ	2.55	0.42
1:A:243:ILE:HG12	1:A:244:ASP:H	1.81	0.42
1:A:635:ILE:O	1:A:637:LYS:N	2.53	0.42
2:a:1194:GLU:C	2:a:1196:VAL:N	2.78	0.42
1:B:234:SER:OG	1:B:237:GLU:HG3	2.19	0.42
1:B:627:LEU:HD11	1:B:727:PHE:CD2	2.55	0.42
1:B:665:ILE:HG13	1:B:666:SER:H	1.85	0.42
1:C:293:THR:HG22	1:C:334:ILE:HA	2.02	0.42
1:D:207:ILE:O	1:D:211:HIS:HB2	2.20	0.42
1:D:234:SER:OG	1:D:237:GLU:HG3	2.19	0.42
1:D:249:PRO:C	1:D:251:ALA:H	2.27	0.42
1:D:263:HIS:CG	1:D:297:ARG:HG3	2.55	0.42
1:D:453:ASP:CG	1:D:455:VAL:HG12	2.45	0.42
1:D:490:ARG:HB2	1:D:504:ARG:NH1	2.33	0.42
2:d:1049:LEU:HD23	2:d:1146:LEU:HD23	2.01	0.42
1:E:453:ASP:CG	1:E:455:VAL:HG12	2.45	0.42
1:E:626:GLY:HA3	1:E:676:ILE:O	2.20	0.42
1:E:635:ILE:O	1:E:637:LYS:N	2.53	0.42
1:E:658:ASP:O	1:E:717:SER:HA	2.20	0.42
2:e:1049:LEU:N	2:e:1083:ILE:O	2.43	0.42
1:F:207:ILE:O	1:F:211:HIS:HB2	2.20	0.42
1:F:366:TYR:O	1:F:411:TYR:N	2.40	0.42
1:G:293:THR:HG22	1:G:334:ILE:HA	2.02	0.42
1:G:423:ALA:C	1:G:424:GLN:CG	2.86	0.42
2:g:1128:ASN:HA	2:g:1131:ILE:HD12	2.02	0.42
1:H:242:ARG:HB3	1:H:462:TYR:CZ	2.55	0.42
1:H:477:TRP:C	1:H:479:GLU:N	2.78	0.42
1:H:480:VAL:CG2	1:I:468:ARG:HG3	2.49	0.42
1:H:584:ASN:N	1:H:584:ASN:HD22	2.18	0.42
1:H:642:TYR:CD1	1:H:700:ALA:HA	2.55	0.42
1:I:307:ALA:O	1:I:309:VAL:HG13	2.19	0.42
1:I:498:LEU:N	1:I:498:LEU:CD2	2.82	0.42
1:I:642:TYR:CD1	1:I:700:ALA:HA	2.55	0.42
1:K:242:ARG:HB3	1:K:462:TYR:CZ	2.55	0.42
1:K:626:GLY:HA3	1:K:676:ILE:O	2.20	0.42
2:k:1195:GLN:HA	2:k:1197:PHE:HE1	1.85	0.42
2:l:1195:GLN:HA	2:l:1197:PHE:HE1	1.85	0.42
1:M:366:TYR:O	1:M:411:TYR:N	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:512:ASP:OD1	1:M:515:GLU:HB2	2.20	0.42
2:m:1128:ASN:HA	2:m:1131:ILE:HD12	2.01	0.42
1:O:453:ASP:CG	1:O:455:VAL:HG12	2.45	0.42
2:o:1125:LYS:C	2:o:1127:ALA:N	2.76	0.42
2:o:1128:ASN:HA	2:o:1131:ILE:HD12	2.01	0.42
1:B:314:PHE:HZ	1:C:670:GLN:C	2.27	0.42
1:B:498:LEU:N	1:B:498:LEU:CD2	2.82	0.42
1:C:242:ARG:HB3	1:C:462:TYR:CZ	2.55	0.42
1:D:343:GLU:CA	2:d:1154:LEU:HD12	2.49	0.42
1:D:512:ASP:OD1	1:D:515:GLU:HB2	2.20	0.42
1:D:635:ILE:O	1:D:637:LYS:N	2.53	0.42
1:E:263:HIS:CG	1:E:297:ARG:HG3	2.55	0.42
2:e:1194:GLU:C	2:e:1196:VAL:N	2.78	0.42
1:F:310:HIS:HE2	1:F:319:SER:HG	1.65	0.42
1:F:477:TRP:C	1:F:479:GLU:N	2.78	0.42
1:F:584:ASN:N	1:F:584:ASN:HD22	2.18	0.42
1:F:627:LEU:HD11	1:F:727:PHE:CD2	2.55	0.42
1:G:207:ILE:O	1:G:211:HIS:HB2	2.20	0.42
1:G:234:SER:OG	1:G:237:GLU:HG3	2.19	0.42
2:g:1049:LEU:HD23	2:g:1146:LEU:HD23	2.01	0.42
2:g:1125:LYS:C	2:g:1127:ALA:N	2.76	0.42
2:g:1194:GLU:C	2:g:1196:VAL:N	2.78	0.42
1:H:598:TYR:HA	1:H:605:VAL:HG23	2.01	0.42
1:H:607:ALA:N	1:H:638:ILE:HD12	2.22	0.42
1:H:635:ILE:O	1:H:637:LYS:N	2.53	0.42
1:I:660:TYR:CD1	1:I:660:TYR:C	2.97	0.42
1:J:298:THR:HG21	1:J:331:THR:OG1	2.20	0.42
1:J:481:LEU:N	1:J:482:PRO:CD	2.75	0.42
2:j:1066:VAL:HG12	2:j:1066:VAL:O	2.19	0.42
1:K:380:THR:HB	1:K:453:ASP:OD1	2.20	0.42
1:K:516:THR:CG2	1:L:196:VAL:HG21	2.50	0.42
1:K:635:ILE:O	1:K:637:LYS:N	2.53	0.42
1:L:242:ARG:HB3	1:L:462:TYR:CZ	2.55	0.42
1:L:366:TYR:O	1:L:411:TYR:N	2.40	0.42
1:L:547:ILE:O	1:L:547:ILE:HG13	2.20	0.42
1:L:584:ASN:N	1:L:584:ASN:HD22	2.18	0.42
2:l:1045:LEU:HB2	2:l:1080:LEU:HD22	2.02	0.42
2:l:1084:VAL:O	2:l:1089:ALA:HA	2.20	0.42
1:A:584:ASN:N	1:A:584:ASN:HD22	2.18	0.41
1:B:380:THR:HG23	1:B:395:LYS:HD2	2.02	0.41
1:B:456:TYR:N	1:B:456:TYR:CD2	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:THR:OG1	1:B:705:ASN:ND2	2.52	0.41
1:C:193:THR:HB	1:C:217:THR:O	2.20	0.41
1:C:380:THR:HB	1:C:453:ASP:OD1	2.20	0.41
1:C:596:PHE:CD2	1:C:638:ILE:HD13	2.50	0.41
2:c:1049:LEU:N	2:c:1083:ILE:O	2.43	0.41
1:D:231:ASP:OD1	1:D:258:ALA:HB3	2.20	0.41
1:D:483:GLN:NE2	1:E:469:VAL:HG21	2.35	0.41
2:d:1084:VAL:O	2:d:1089:ALA:HA	2.20	0.41
1:E:249:PRO:C	1:E:251:ALA:N	2.78	0.41
1:E:515:GLU:OE1	1:F:245:LYS:HE2	2.20	0.41
1:E:584:ASN:N	1:E:584:ASN:HD22	2.18	0.41
1:F:642:TYR:CD1	1:F:700:ALA:HA	2.55	0.41
1:F:660:TYR:CD1	1:F:660:TYR:C	2.97	0.41
2:f:1045:LEU:HB2	2:f:1080:LEU:HD22	2.02	0.41
1:G:307:ALA:O	1:G:309:VAL:HG13	2.19	0.41
1:G:635:ILE:O	1:G:636:ARG:C	2.64	0.41
1:H:227:SER:O	1:H:230:SER:N	2.39	0.41
1:H:234:SER:OG	1:H:237:GLU:HG3	2.19	0.41
1:H:249:PRO:C	1:H:251:ALA:N	2.78	0.41
1:H:456:TYR:N	1:H:456:TYR:CD2	2.87	0.41
1:I:242:ARG:HB3	1:I:462:TYR:CZ	2.55	0.41
1:I:263:HIS:CG	1:I:297:ARG:HG3	2.55	0.41
1:J:231:ASP:OD1	1:J:258:ALA:HB3	2.20	0.41
1:J:343:GLU:CA	2:j:1154:LEU:HD12	2.49	0.41
1:J:456:TYR:N	1:J:456:TYR:CD2	2.87	0.41
1:J:683:ASP:OD2	2:j:1052:SER:HB2	2.19	0.41
2:j:1084:VAL:O	2:j:1089:ALA:HA	2.20	0.41
2:j:1151:LEU:HD13	2:j:1155:VAL:HG12	2.03	0.41
1:K:498:LEU:N	1:K:498:LEU:CD2	2.82	0.41
1:L:453:ASP:CG	1:L:455:VAL:HG12	2.45	0.41
1:L:481:LEU:N	1:L:482:PRO:CD	2.75	0.41
1:L:512:ASP:OD1	1:L:515:GLU:HB2	2.20	0.41
1:M:273:LYS:O	1:M:273:LYS:HG3	2.20	0.41
1:M:380:THR:HG23	1:M:395:LYS:HD2	2.02	0.41
1:M:636:ARG:CA	1:M:639:LEU:HD23	2.50	0.41
2:m:1084:VAL:O	2:m:1089:ALA:HA	2.20	0.41
1:O:231:ASP:OD1	1:O:258:ALA:HB3	2.20	0.41
1:O:490:ARG:HH11	1:O:502:GLU:CD	2.28	0.41
1:O:658:ASP:O	1:O:717:SER:HA	2.20	0.41
1:A:207:ILE:O	1:A:211:HIS:HB2	2.20	0.41
1:A:298:THR:HG21	1:A:331:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ASN:HD22	1:A:458:ASN:N	2.17	0.41
1:B:207:ILE:O	1:B:211:HIS:HB2	2.20	0.41
1:B:272:SER:C	1:B:350:MET:HE3	2.46	0.41
1:B:307:ALA:O	1:B:309:VAL:HG13	2.19	0.41
1:B:490:ARG:HH11	1:B:502:GLU:CD	2.28	0.41
1:B:584:ASN:N	1:B:584:ASN:HD22	2.18	0.41
2:b:1045:LEU:HB2	2:b:1080:LEU:HD22	2.02	0.41
1:C:249:PRO:C	1:C:251:ALA:H	2.27	0.41
1:C:477:TRP:C	1:C:479:GLU:N	2.78	0.41
1:C:483:GLN:HE22	1:O:245:LYS:H	1.67	0.41
1:C:490:ARG:HH11	1:C:502:GLU:CD	2.28	0.41
1:C:626:GLY:HA3	1:C:676:ILE:O	2.20	0.41
1:C:665:ILE:HG13	1:C:666:SER:H	1.85	0.41
2:c:1194:GLU:C	2:c:1196:VAL:N	2.78	0.41
1:D:307:ALA:O	1:D:309:VAL:HG13	2.19	0.41
1:D:636:ARG:CA	1:D:639:LEU:HD23	2.50	0.41
1:F:394:ILE:HD13	1:F:421:LEU:CD2	2.50	0.41
1:F:635:ILE:O	1:F:636:ARG:C	2.64	0.41
2:f:1084:VAL:O	2:f:1089:ALA:HA	2.20	0.41
1:G:423:ALA:O	1:G:424:GLN:HG2	2.17	0.41
1:H:263:HIS:CG	1:H:297:ARG:HG3	2.55	0.41
1:H:380:THR:HB	1:H:453:ASP:OD1	2.20	0.41
1:I:234:SER:OG	1:I:237:GLU:HG3	2.19	0.41
2:i:1195:GLN:HA	2:i:1197:PHE:HE1	1.85	0.41
2:i:1214:LEU:C	2:i:1216:GLN:H	2.28	0.41
2:j:1125:LYS:C	2:j:1127:ALA:N	2.76	0.41
1:L:642:TYR:CD1	1:L:700:ALA:HA	2.55	0.41
2:l:1128:ASN:HA	2:l:1131:ILE:HD12	2.01	0.41
1:M:298:THR:HG21	1:M:331:THR:OG1	2.20	0.41
1:M:380:THR:HB	1:M:453:ASP:OD1	2.20	0.41
2:m:1049:LEU:HD23	2:m:1146:LEU:HD23	2.01	0.41
2:m:1195:GLN:HA	2:m:1197:PHE:HE1	1.85	0.41
1:O:263:HIS:CG	1:O:297:ARG:HG3	2.55	0.41
1:O:477:TRP:C	1:O:479:GLU:N	2.78	0.41
1:O:596:PHE:CD1	1:O:596:PHE:N	2.84	0.41
2:o:1112:VAL:O	2:o:1114:PRO:HD3	2.21	0.41
2:o:1151:LEU:HD13	2:o:1155:VAL:HG12	2.02	0.41
2:o:1194:GLU:C	2:o:1196:VAL:N	2.78	0.41
1:A:380:THR:HB	1:A:453:ASP:OD1	2.20	0.41
1:A:658:ASP:O	1:A:717:SER:HA	2.20	0.41
2:a:1195:GLN:HA	2:a:1197:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231:ASP:OD1	1:C:258:ALA:HB3	2.20	0.41
1:D:272:SER:C	1:D:350:MET:HE3	2.46	0.41
1:D:547:ILE:O	1:D:547:ILE:HG13	2.20	0.41
1:E:273:LYS:HG3	1:E:273:LYS:O	2.20	0.41
1:E:293:THR:HG22	1:E:334:ILE:HA	2.02	0.41
1:F:498:LEU:N	1:F:498:LEU:CD2	2.82	0.41
1:G:453:ASP:CG	1:G:455:VAL:HG12	2.45	0.41
1:G:584:ASN:N	1:G:584:ASN:HD22	2.18	0.41
1:G:636:ARG:CA	1:G:639:LEU:HD23	2.50	0.41
1:G:658:ASP:O	1:G:717:SER:HA	2.20	0.41
1:G:711:SER:C	1:G:713:ASN:N	2.77	0.41
2:g:1214:LEU:C	2:g:1216:GLN:H	2.27	0.41
1:H:293:THR:HG22	1:H:334:ILE:HA	2.02	0.41
2:h:1086:SER:OG	2:h:1087:SER:N	2.50	0.41
1:I:231:ASP:OD1	1:I:258:ALA:HB3	2.20	0.41
1:I:273:LYS:O	1:I:273:LYS:HG3	2.20	0.41
1:I:316:ILE:CD1	1:J:496:LYS:CD	2.91	0.41
1:I:458:ASN:HD22	1:I:458:ASN:N	2.17	0.41
1:I:490:ARG:HH11	1:I:502:GLU:CD	2.28	0.41
1:I:665:ILE:HG13	1:I:666:SER:H	1.85	0.41
2:i:1151:LEU:HD13	2:i:1155:VAL:HG12	2.02	0.41
1:J:234:SER:OG	1:J:237:GLU:HG3	2.19	0.41
1:J:242:ARG:HB3	1:J:462:TYR:CZ	2.55	0.41
1:J:249:PRO:C	1:J:251:ALA:H	2.27	0.41
1:J:263:HIS:CG	1:J:297:ARG:HG3	2.55	0.41
1:J:635:ILE:O	1:J:637:LYS:N	2.53	0.41
2:j:1195:GLN:HA	2:j:1197:PHE:HE1	1.85	0.41
1:K:627:LEU:HD11	1:K:727:PHE:CD2	2.55	0.41
1:L:627:LEU:HD11	1:L:727:PHE:CD2	2.55	0.41
1:M:227:SER:O	1:M:230:SER:N	2.39	0.41
1:M:458:ASN:HD22	1:M:458:ASN:N	2.17	0.41
1:M:711:SER:C	1:M:713:ASN:N	2.77	0.41
1:O:186:SER:O	1:O:187:LEU:C	2.64	0.41
1:O:403:GLN:C	1:O:404:ILE:HD12	2.45	0.41
1:O:521:MET:HA	1:O:521:MET:CE	2.37	0.41
1:A:262:VAL:HG11	1:A:379:PRO:CG	2.48	0.41
1:A:512:ASP:OD1	1:A:515:GLU:HB2	2.20	0.41
1:A:636:ARG:CA	1:A:639:LEU:HD23	2.50	0.41
1:A:642:TYR:CD1	1:A:700:ALA:HA	2.55	0.41
2:a:1112:VAL:O	2:a:1114:PRO:HD3	2.21	0.41
1:B:193:THR:HB	1:B:217:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:259:TYR:HA	1:B:260:PRO:HD3	1.90	0.41
1:B:398:GLU:O	1:B:400:GLN:N	2.52	0.41
2:b:1084:VAL:O	2:b:1089:ALA:HA	2.20	0.41
1:C:186:SER:O	1:C:187:LEU:C	2.64	0.41
2:c:1049:LEU:O	2:c:1084:VAL:HA	2.21	0.41
1:D:711:SER:C	1:D:713:ASN:N	2.77	0.41
2:d:1112:VAL:O	2:d:1114:PRO:HD3	2.21	0.41
1:E:186:SER:O	1:E:187:LEU:C	2.64	0.41
1:E:231:ASP:OD1	1:E:258:ALA:HB3	2.20	0.41
1:E:404:ILE:N	1:E:404:ILE:CD1	2.82	0.41
1:E:547:ILE:O	1:E:547:ILE:HG13	2.20	0.41
2:e:1112:VAL:O	2:e:1114:PRO:HD3	2.21	0.41
1:F:547:ILE:O	1:F:547:ILE:HG13	2.20	0.41
1:F:658:ASP:O	1:F:717:SER:HA	2.20	0.41
1:G:198:ASN:HB2	1:G:200:ARG:CD	2.50	0.41
1:G:242:ARG:HB3	1:G:462:TYR:CZ	2.55	0.41
1:G:626:GLY:HA3	1:G:676:ILE:O	2.20	0.41
1:G:627:LEU:HD11	1:G:727:PHE:CD2	2.55	0.41
2:h:1049:LEU:O	2:h:1084:VAL:HA	2.21	0.41
2:i:1194:GLU:C	2:i:1196:VAL:N	2.78	0.41
1:J:226:TRP:CB	1:K:466:ASN:C	2.94	0.41
1:J:249:PRO:C	1:J:251:ALA:N	2.78	0.41
1:J:272:SER:C	1:J:350:MET:HE3	2.46	0.41
1:J:658:ASP:O	1:J:717:SER:HA	2.20	0.41
2:j:1214:LEU:C	2:j:1216:GLN:H	2.27	0.41
1:K:186:SER:O	1:K:187:LEU:C	2.64	0.41
1:K:316:ILE:CD1	1:L:496:LYS:CD	2.93	0.41
1:K:642:TYR:CD1	1:K:700:ALA:HA	2.55	0.41
1:M:242:ARG:HB3	1:M:462:TYR:CZ	2.55	0.41
2:o:1214:LEU:C	2:o:1216:GLN:H	2.28	0.41
1:A:380:THR:HG23	1:A:395:LYS:HD2	2.02	0.41
1:A:496:LYS:HB3	1:F:316:ILE:HD11	1.95	0.41
1:A:622:SER:HA	1:A:627:LEU:HD23	2.03	0.41
1:A:626:GLY:HA3	1:A:676:ILE:O	2.20	0.41
2:a:1151:LEU:HD13	2:a:1155:VAL:HG12	2.02	0.41
1:B:242:ARG:HB3	1:B:462:TYR:CZ	2.55	0.41
1:B:249:PRO:C	1:B:251:ALA:N	2.78	0.41
1:B:263:HIS:CG	1:B:297:ARG:HG3	2.55	0.41
1:B:635:ILE:O	1:B:637:LYS:N	2.53	0.41
1:B:711:SER:C	1:B:713:ASN:N	2.77	0.41
2:b:1112:VAL:O	2:b:1114:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1195:GLN:HA	2:b:1197:PHE:HE1	1.85	0.41
1:C:207:ILE:O	1:C:211:HIS:HB2	2.20	0.41
1:C:273:LYS:HG3	1:C:273:LYS:O	2.20	0.41
1:C:453:ASP:CG	1:C:455:VAL:HG12	2.45	0.41
1:C:607:ALA:N	1:C:638:ILE:HD12	2.22	0.41
2:c:1112:VAL:O	2:c:1114:PRO:HD3	2.21	0.41
1:D:403:GLN:C	1:D:404:ILE:HD12	2.45	0.41
1:E:307:ALA:O	1:E:309:VAL:HG13	2.19	0.41
1:E:490:ARG:HH11	1:E:502:GLU:CD	2.28	0.41
1:E:596:PHE:CD2	1:E:638:ILE:HD13	2.50	0.41
1:F:626:GLY:HA3	1:F:676:ILE:O	2.20	0.41
1:F:635:ILE:O	1:F:637:LYS:N	2.53	0.41
2:f:1151:LEU:HD13	2:f:1155:VAL:HG12	2.02	0.41
1:G:217:THR:HG22	1:G:218:LYS:H	1.83	0.41
1:G:249:PRO:C	1:G:251:ALA:H	2.27	0.41
1:G:394:ILE:HD13	1:G:421:LEU:CD2	2.51	0.41
1:G:642:TYR:CD1	1:G:700:ALA:HA	2.55	0.41
2:g:1049:LEU:O	2:g:1084:VAL:HA	2.21	0.41
2:g:1112:VAL:O	2:g:1114:PRO:HD3	2.21	0.41
2:g:1151:LEU:HD13	2:g:1155:VAL:HG12	2.02	0.41
2:g:1195:GLN:HA	2:g:1197:PHE:HE1	1.85	0.41
1:H:547:ILE:O	1:H:547:ILE:HG13	2.20	0.41
1:H:627:LEU:HD11	1:H:727:PHE:CD2	2.55	0.41
1:I:380:THR:HB	1:I:453:ASP:OD1	2.20	0.41
1:I:453:ASP:CG	1:I:455:VAL:HG12	2.45	0.41
1:I:635:ILE:O	1:I:636:ARG:C	2.64	0.41
1:I:635:ILE:O	1:I:637:LYS:N	2.53	0.41
2:i:1084:VAL:O	2:i:1089:ALA:HA	2.20	0.41
1:J:207:ILE:O	1:J:211:HIS:HB2	2.20	0.41
1:J:380:THR:HG23	1:J:395:LYS:HD2	2.02	0.41
1:J:413:SER:O	1:J:416:LEU:N	2.54	0.41
1:J:490:ARG:HH11	1:J:502:GLU:CD	2.28	0.41
1:J:642:TYR:CD1	1:J:700:ALA:HA	2.55	0.41
1:J:665:ILE:HG13	1:J:666:SER:H	1.85	0.41
1:K:272:SER:C	1:K:350:MET:HE3	2.46	0.41
1:K:343:GLU:CA	2:k:1154:LEU:HD12	2.49	0.41
1:K:477:TRP:C	1:K:479:GLU:N	2.78	0.41
1:K:490:ARG:HH11	1:K:502:GLU:CD	2.28	0.41
1:K:635:ILE:O	1:K:636:ARG:C	2.64	0.41
2:l:1151:LEU:HD13	2:l:1155:VAL:HG12	2.02	0.41
1:M:186:SER:O	1:M:187:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:263:HIS:CG	1:M:297:ARG:HG3	2.55	0.41
1:M:272:SER:C	1:M:350:MET:HE3	2.46	0.41
2:m:1125:LYS:C	2:m:1127:ALA:N	2.76	0.41
1:O:193:THR:HB	1:O:217:THR:O	2.20	0.41
1:O:207:ILE:O	1:O:211:HIS:HB2	2.20	0.41
1:O:341:ALA:CB	2:o:1153:GLY:HA3	2.42	0.41
1:O:380:THR:HG23	1:O:395:LYS:HD2	2.02	0.41
1:O:380:THR:HB	1:O:453:ASP:OD1	2.20	0.41
1:O:423:ALA:O	1:O:424:GLN:HG2	2.17	0.41
1:O:622:SER:HA	1:O:627:LEU:HD23	2.03	0.41
2:o:1195:GLN:HA	2:o:1197:PHE:HE1	1.85	0.41
1:A:200:ARG:CB	1:F:178:ARG:NH2	2.83	0.41
1:A:273:LYS:O	1:A:273:LYS:HG3	2.20	0.41
1:A:413:SER:O	1:A:416:LEU:N	2.54	0.41
1:A:627:LEU:HD11	1:A:727:PHE:CD2	2.55	0.41
1:B:273:LYS:HG3	1:B:273:LYS:O	2.20	0.41
1:B:626:GLY:HA3	1:B:676:ILE:O	2.20	0.41
1:B:642:TYR:CD1	1:B:700:ALA:HA	2.55	0.41
2:b:1194:GLU:C	2:b:1196:VAL:N	2.78	0.41
1:C:272:SER:C	1:C:350:MET:HE3	2.46	0.41
1:C:403:GLN:C	1:C:404:ILE:HD12	2.45	0.41
1:C:413:SER:O	1:C:416:LEU:N	2.54	0.41
1:D:175:VAL:HA	1:D:176:PRO:HD3	1.94	0.41
1:D:186:SER:O	1:D:187:LEU:C	2.64	0.41
1:D:242:ARG:HB3	1:D:462:TYR:CZ	2.55	0.41
2:d:1049:LEU:O	2:d:1084:VAL:HA	2.21	0.41
1:E:207:ILE:O	1:E:211:HIS:HB2	2.20	0.41
1:E:642:TYR:CD1	1:E:700:ALA:HA	2.55	0.41
2:e:1045:LEU:HB2	2:e:1080:LEU:HD22	2.02	0.41
2:f:1049:LEU:O	2:f:1084:VAL:HA	2.21	0.41
2:f:1112:VAL:O	2:f:1114:PRO:HD3	2.21	0.41
1:G:298:THR:HG21	1:G:331:THR:OG1	2.20	0.41
1:H:193:THR:HB	1:H:217:THR:O	2.21	0.41
1:H:207:ILE:O	1:H:211:HIS:HB2	2.20	0.41
1:H:453:ASP:CG	1:H:455:VAL:HG12	2.45	0.41
1:I:207:ILE:O	1:I:211:HIS:HB2	2.20	0.41
1:I:249:PRO:C	1:I:251:ALA:N	2.78	0.41
2:i:1066:VAL:O	2:i:1066:VAL:HG12	2.19	0.41
1:J:458:ASN:HD22	1:J:458:ASN:N	2.17	0.41
1:J:627:LEU:HD11	1:J:727:PHE:CD2	2.55	0.41
2:j:1049:LEU:HD23	2:j:1146:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:262:VAL:HG11	1:K:379:PRO:CG	2.48	0.41
1:K:273:LYS:HG3	1:K:273:LYS:O	2.20	0.41
1:L:380:THR:HB	1:L:453:ASP:OD1	2.20	0.41
1:L:534:ASN:ND2	1:L:536:PRO:HG3	2.36	0.41
1:L:635:ILE:O	1:L:636:ARG:C	2.64	0.41
1:L:635:ILE:O	1:L:637:LYS:N	2.53	0.41
2:l:1112:VAL:O	2:l:1114:PRO:HD3	2.21	0.41
1:M:231:ASP:OD1	1:M:258:ALA:HB3	2.20	0.41
1:M:341:ALA:CB	2:m:1153:GLY:HA3	2.42	0.41
1:M:453:ASP:CG	1:M:455:VAL:HG12	2.45	0.41
1:M:626:GLY:HA3	1:M:676:ILE:O	2.20	0.41
1:O:272:SER:C	1:O:350:MET:HE3	2.46	0.41
1:O:660:TYR:CD1	1:O:660:TYR:C	2.97	0.41
1:A:394:ILE:CG2	1:A:421:LEU:HD22	2.39	0.41
2:a:1049:LEU:O	2:a:1084:VAL:HA	2.21	0.41
1:B:231:ASP:OD1	1:B:258:ALA:HB3	2.20	0.41
1:B:394:ILE:HD13	1:B:421:LEU:CD2	2.51	0.41
1:B:413:SER:O	1:B:416:LEU:N	2.54	0.41
1:B:622:SER:HA	1:B:627:LEU:HD23	2.03	0.41
1:B:635:ILE:O	1:B:636:ARG:C	2.64	0.41
2:b:1125:LYS:C	2:b:1127:ALA:N	2.76	0.41
1:C:380:THR:HG23	1:C:395:LYS:HD2	2.02	0.41
1:C:635:ILE:O	1:C:636:ARG:C	2.64	0.41
1:D:341:ALA:CB	2:d:1153:GLY:HA3	2.42	0.41
1:D:534:ASN:ND2	1:D:536:PRO:HG3	2.36	0.41
1:D:607:ALA:N	1:D:638:ILE:HD12	2.22	0.41
1:D:626:GLY:HA3	1:D:676:ILE:O	2.20	0.41
1:E:272:SER:C	1:E:350:MET:HE3	2.46	0.41
1:E:380:THR:HB	1:E:453:ASP:OD1	2.20	0.41
1:E:635:ILE:O	1:E:636:ARG:C	2.64	0.41
1:F:249:PRO:C	1:F:251:ALA:N	2.78	0.41
1:F:307:ALA:O	1:F:309:VAL:HG13	2.19	0.41
1:F:365:ARG:HH11	1:F:414:LYS:HD3	1.82	0.41
1:F:683:ASP:OD2	2:f:1052:SER:HB2	2.19	0.41
2:f:1195:GLN:HA	2:f:1197:PHE:HE1	1.85	0.41
1:G:186:SER:O	1:G:187:LEU:C	2.64	0.41
1:G:193:THR:HB	1:G:217:THR:O	2.21	0.41
1:G:468:ARG:HG3	1:M:480:VAL:HG21	2.00	0.41
1:G:490:ARG:HH11	1:G:502:GLU:CD	2.28	0.41
1:G:534:ASN:ND2	1:G:536:PRO:HG3	2.36	0.41
1:H:289:ILE:O	1:H:289:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:GLN:C	1:H:404:ILE:HD12	2.45	0.41
1:H:404:ILE:N	1:H:404:ILE:CD1	2.82	0.41
1:I:193:THR:HB	1:I:217:THR:O	2.21	0.41
1:I:289:ILE:O	1:I:289:ILE:HG13	2.21	0.41
1:I:360:LEU:C	1:I:432:ILE:HD12	2.46	0.41
1:I:626:GLY:HA3	1:I:676:ILE:O	2.20	0.41
2:i:1112:VAL:O	2:i:1114:PRO:HD3	2.21	0.41
1:J:193:THR:HB	1:J:217:THR:O	2.21	0.41
1:J:584:ASN:N	1:J:584:ASN:HD22	2.18	0.41
1:K:231:ASP:OD1	1:K:258:ALA:HB3	2.20	0.41
1:K:360:LEU:C	1:K:432:ILE:HD12	2.46	0.41
2:k:1049:LEU:HD21	2:k:1066:VAL:HG21	2.03	0.41
1:L:263:HIS:CG	1:L:297:ARG:HG3	2.55	0.41
1:L:319:SER:HA	1:M:414:LYS:CG	2.49	0.41
1:L:360:LEU:C	1:L:432:ILE:HD12	2.46	0.41
2:l:1214:LEU:C	2:l:1216:GLN:H	2.28	0.41
1:M:200:ARG:HD2	1:M:200:ARG:H	1.84	0.41
1:O:242:ARG:HB3	1:O:462:TYR:CZ	2.55	0.41
1:O:249:PRO:C	1:O:251:ALA:H	2.27	0.41
1:O:512:ASP:OD1	1:O:515:GLU:HB2	2.20	0.41
1:O:626:GLY:HA3	1:O:676:ILE:O	2.20	0.41
1:O:635:ILE:O	1:O:637:LYS:N	2.53	0.41
1:A:231:ASP:OD1	1:A:258:ALA:HB3	2.20	0.41
1:A:249:PRO:C	1:A:251:ALA:N	2.78	0.41
1:A:272:SER:C	1:A:350:MET:HE3	2.46	0.41
1:A:394:ILE:HD13	1:A:421:LEU:CD2	2.51	0.41
1:A:635:ILE:O	1:A:636:ARG:C	2.64	0.41
1:B:453:ASP:CG	1:B:455:VAL:HG12	2.45	0.41
1:B:458:ASN:HD22	1:B:458:ASN:N	2.17	0.41
1:B:523:LEU:O	1:B:527:LEU:HD13	2.21	0.41
2:b:1049:LEU:O	2:b:1084:VAL:HA	2.21	0.41
1:C:360:LEU:C	1:C:432:ILE:HD12	2.46	0.41
1:C:584:ASN:N	1:C:584:ASN:HD22	2.18	0.41
1:C:685:LEU:HD12	2:c:1054:SER:HA	2.03	0.41
1:C:702:THR:OG1	1:C:705:ASN:ND2	2.52	0.41
2:c:1151:LEU:HD13	2:c:1155:VAL:HG12	2.02	0.41
1:D:305:GLY:HA2	1:E:670:GLN:NE2	2.35	0.41
1:D:469:VAL:HG21	1:O:483:GLN:CD	2.43	0.41
1:D:622:SER:HA	1:D:627:LEU:HD23	2.03	0.41
2:d:1125:LYS:C	2:d:1127:ALA:N	2.76	0.41
1:E:193:THR:HB	1:E:217:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:394:ILE:HD13	1:E:421:LEU:CD2	2.50	0.41
1:E:403:GLN:C	1:E:404:ILE:HD12	2.45	0.41
1:E:413:SER:O	1:E:416:LEU:N	2.54	0.41
1:E:523:LEU:O	1:E:526:ALA:HB3	2.21	0.41
1:E:622:SER:HA	1:E:627:LEU:HD23	2.03	0.41
2:e:1195:GLN:HA	2:e:1197:PHE:HE1	1.85	0.41
1:F:413:SER:O	1:F:416:LEU:N	2.54	0.41
1:F:683:ASP:O	1:F:685:LEU:HG	2.21	0.41
2:f:1214:LEU:C	2:f:1216:GLN:H	2.27	0.41
1:G:523:LEU:O	1:G:527:LEU:HD13	2.21	0.41
1:G:607:ALA:H	1:G:638:ILE:CD1	2.20	0.41
2:g:1049:LEU:HD21	2:g:1066:VAL:HG21	2.03	0.41
1:H:360:LEU:C	1:H:432:ILE:HD12	2.46	0.41
1:H:394:ILE:HD13	1:H:421:LEU:CD2	2.50	0.41
1:H:413:SER:O	1:H:416:LEU:N	2.54	0.41
1:H:490:ARG:HH11	1:H:502:GLU:CD	2.28	0.41
1:H:635:ILE:O	1:H:636:ARG:C	2.64	0.41
1:I:413:SER:O	1:I:416:LEU:N	2.54	0.41
2:i:1125:LYS:C	2:i:1127:ALA:N	2.76	0.41
1:J:512:ASP:OD1	1:J:515:GLU:HB2	2.20	0.41
1:J:546:ASP:C	1:J:548:THR:N	2.79	0.41
1:J:711:SER:C	1:J:713:ASN:N	2.77	0.41
1:K:207:ILE:O	1:K:211:HIS:HB2	2.20	0.41
1:K:249:PRO:C	1:K:251:ALA:N	2.78	0.41
1:K:298:THR:HG21	1:K:331:THR:OG1	2.20	0.41
1:K:310:HIS:HE2	1:K:319:SER:HG	1.67	0.41
1:K:484:ILE:N	1:K:484:ILE:CD1	2.84	0.41
1:K:683:ASP:OD2	2:k:1052:SER:HB2	2.19	0.41
2:k:1045:LEU:HB2	2:k:1080:LEU:HD22	2.02	0.41
1:L:490:ARG:HH11	1:L:502:GLU:CD	2.28	0.41
1:L:546:ASP:C	1:L:548:THR:N	2.79	0.41
1:L:688:TYR:CD1	2:l:1056:ALA:HB1	2.56	0.41
1:L:725:LEU:C	1:L:726:ILE:HD12	2.46	0.41
1:M:249:PRO:C	1:M:251:ALA:N	2.78	0.41
1:M:534:ASN:ND2	1:M:536:PRO:HG3	2.36	0.41
1:M:584:ASN:N	1:M:584:ASN:HD22	2.18	0.41
1:M:635:ILE:O	1:M:636:ARG:C	2.64	0.41
1:O:395:LYS:HZ3	1:O:398:GLU:CD	2.28	0.41
1:O:627:LEU:HD11	1:O:727:PHE:CD2	2.55	0.41
1:O:683:ASP:O	1:O:685:LEU:HG	2.21	0.41
1:A:395:LYS:HZ3	1:A:398:GLU:CD	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:GLN:C	1:A:404:ILE:HD12	2.45	0.41
1:A:437:ASN:N	1:A:437:ASN:HD22	2.19	0.41
1:A:453:ASP:CG	1:A:455:VAL:HG12	2.45	0.41
2:a:1045:LEU:HB2	2:a:1080:LEU:HD22	2.02	0.41
1:B:266:MET:CA	1:B:364:ILE:HG22	2.47	0.41
1:B:293:THR:HG22	1:B:334:ILE:HA	2.02	0.41
1:B:480:VAL:HG21	1:C:468:ARG:HH11	1.85	0.41
1:B:592:ARG:HD2	1:B:598:TYR:CE2	2.56	0.41
1:B:683:ASP:O	1:B:685:LEU:HG	2.21	0.41
2:b:1128:ASN:HA	2:b:1131:ILE:HD12	2.01	0.41
1:C:236:PHE:O	1:C:237:GLU:C	2.64	0.41
1:C:249:PRO:C	1:C:251:ALA:N	2.78	0.41
1:C:263:HIS:CG	1:C:297:ARG:HG3	2.55	0.41
1:C:394:ILE:HD13	1:C:421:LEU:CD2	2.51	0.41
1:C:534:ASN:ND2	1:C:536:PRO:HG3	2.36	0.41
1:C:592:ARG:HD2	1:C:598:TYR:CE2	2.56	0.41
1:C:627:LEU:HD11	1:C:727:PHE:CD2	2.55	0.41
2:c:1049:LEU:HD23	2:c:1146:LEU:HD23	2.01	0.41
2:c:1084:VAL:O	2:c:1089:ALA:HA	2.20	0.41
1:D:193:THR:HB	1:D:217:THR:O	2.21	0.41
1:D:273:LYS:O	1:D:273:LYS:HG3	2.20	0.41
1:D:293:THR:HG22	1:D:334:ILE:HA	2.02	0.41
1:D:380:THR:HB	1:D:453:ASP:OD1	2.20	0.41
1:D:394:ILE:HD13	1:D:421:LEU:CD2	2.51	0.41
1:D:413:SER:O	1:D:416:LEU:N	2.54	0.41
1:D:477:TRP:C	1:D:479:GLU:N	2.78	0.41
1:D:523:LEU:O	1:D:527:LEU:HD13	2.21	0.41
1:D:592:ARG:HD2	1:D:598:TYR:CE2	2.56	0.41
1:D:627:LEU:HD11	1:D:727:PHE:CD2	2.55	0.41
1:D:642:TYR:CD1	1:D:700:ALA:HA	2.55	0.41
1:D:683:ASP:O	1:D:685:LEU:HG	2.21	0.41
1:E:360:LEU:C	1:E:432:ILE:HD12	2.46	0.41
1:E:398:GLU:C	1:E:400:GLN:N	2.69	0.41
1:E:534:ASN:ND2	1:E:536:PRO:HG3	2.36	0.41
1:E:565:GLN:OE1	1:E:581:ILE:HA	2.21	0.41
1:E:636:ARG:CA	1:E:639:LEU:HD23	2.50	0.41
1:E:725:LEU:C	1:E:726:ILE:HD12	2.46	0.41
1:F:193:THR:HB	1:F:217:THR:O	2.20	0.41
1:F:289:ILE:O	1:F:289:ILE:HG13	2.21	0.41
1:F:456:TYR:N	1:F:456:TYR:CD2	2.87	0.41
1:F:523:LEU:O	1:F:526:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:523:LEU:O	1:F:527:LEU:HD13	2.21	0.41
1:F:665:ILE:HG13	1:F:666:SER:H	1.85	0.41
1:G:272:SER:C	1:G:350:MET:HE3	2.46	0.41
1:G:273:LYS:O	1:G:273:LYS:HG3	2.20	0.41
1:G:360:LEU:C	1:G:432:ILE:HD12	2.46	0.41
1:G:380:THR:HB	1:G:453:ASP:OD1	2.20	0.41
1:G:403:GLN:C	1:G:404:ILE:HD12	2.46	0.41
1:G:413:SER:O	1:G:416:LEU:N	2.54	0.41
1:G:688:TYR:CD1	2:g:1056:ALA:HB1	2.56	0.41
2:g:1202:GLY:C	2:g:1204:GLN:N	2.79	0.41
1:H:175:VAL:HA	1:H:176:PRO:HD3	1.94	0.41
1:H:592:ARG:HD2	1:H:598:TYR:CE2	2.56	0.41
2:h:1049:LEU:HD21	2:h:1066:VAL:HG21	2.03	0.41
2:h:1112:VAL:O	2:h:1114:PRO:HD3	2.21	0.41
2:h:1142:ILE:HG23	2:h:1174:TYR:CE1	2.56	0.41
1:I:236:PHE:O	1:I:237:GLU:C	2.64	0.41
1:I:266:MET:CA	1:I:364:ILE:HG22	2.47	0.41
1:I:272:SER:C	1:I:350:MET:HE3	2.46	0.41
1:I:380:THR:HG23	1:I:395:LYS:HD2	2.02	0.41
1:I:395:LYS:HZ3	1:I:398:GLU:CD	2.29	0.41
1:I:547:ILE:O	1:I:547:ILE:HG13	2.20	0.41
1:I:683:ASP:O	1:I:685:LEU:HG	2.21	0.41
2:i:1049:LEU:O	2:i:1084:VAL:HA	2.21	0.41
2:i:1142:ILE:HG23	2:i:1174:TYR:CE1	2.56	0.41
2:i:1202:GLY:C	2:i:1204:GLN:N	2.79	0.41
1:J:236:PHE:O	1:J:237:GLU:C	2.64	0.41
1:J:438:GLN:C	1:J:440:LEU:N	2.79	0.41
1:J:453:ASP:CG	1:J:455:VAL:HG12	2.45	0.41
1:J:622:SER:HA	1:J:627:LEU:HD23	2.03	0.41
1:J:683:ASP:O	1:J:685:LEU:HG	2.21	0.41
1:J:688:TYR:CD1	2:j:1056:ALA:HB1	2.56	0.41
2:j:1049:LEU:HD21	2:j:1066:VAL:HG21	2.03	0.41
2:j:1049:LEU:O	2:j:1084:VAL:HA	2.21	0.41
2:j:1112:VAL:O	2:j:1114:PRO:HD3	2.21	0.41
1:K:193:THR:HB	1:K:217:THR:O	2.21	0.41
1:K:263:HIS:CG	1:K:297:ARG:HG3	2.55	0.41
1:K:380:THR:HG23	1:K:395:LYS:HD2	2.02	0.41
1:K:453:ASP:CG	1:K:455:VAL:HG12	2.45	0.41
1:K:546:ASP:C	1:K:548:THR:N	2.79	0.41
1:K:622:SER:HA	1:K:627:LEU:HD23	2.03	0.41
1:K:658:ASP:O	1:K:717:SER:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:683:ASP:O	1:K:685:LEU:HG	2.21	0.41
1:K:688:TYR:CD1	2:k:1056:ALA:HB1	2.56	0.41
2:k:1112:VAL:O	2:k:1114:PRO:HD3	2.21	0.41
1:L:186:SER:O	1:L:187:LEU:C	2.64	0.41
1:L:298:THR:HG21	1:L:331:THR:OG1	2.20	0.41
1:L:380:THR:HG23	1:L:395:LYS:HD2	2.02	0.41
1:L:403:GLN:C	1:L:404:ILE:HD12	2.45	0.41
1:L:413:SER:O	1:L:416:LEU:N	2.54	0.41
1:L:513:PRO:HB2	1:M:240:THR:O	2.21	0.41
1:L:607:ALA:H	1:L:638:ILE:CD1	2.20	0.41
1:L:665:ILE:HG13	1:L:666:SER:H	1.85	0.41
2:l:1049:LEU:HD23	2:l:1146:LEU:HD23	2.01	0.41
2:l:1202:GLY:C	2:l:1204:GLN:N	2.79	0.41
1:M:394:ILE:HD13	1:M:421:LEU:CD2	2.51	0.41
1:M:490:ARG:HH11	1:M:502:GLU:CD	2.28	0.41
1:M:546:ASP:C	1:M:548:THR:N	2.79	0.41
1:M:592:ARG:HD2	1:M:598:TYR:CE2	2.56	0.41
1:M:685:LEU:HD12	2:m:1054:SER:HA	2.03	0.41
2:m:1151:LEU:HD13	2:m:1155:VAL:HG12	2.03	0.41
1:O:249:PRO:C	1:O:251:ALA:N	2.78	0.41
1:O:437:ASN:N	1:O:437:ASN:HD22	2.19	0.41
1:O:584:ASN:N	1:O:584:ASN:HD22	2.18	0.41
1:O:592:ARG:HD2	1:O:598:TYR:CE2	2.56	0.41
1:O:665:ILE:HG13	1:O:666:SER:H	1.85	0.41
2:o:1084:VAL:O	2:o:1089:ALA:HA	2.20	0.41
2:a:1084:VAL:O	2:a:1089:ALA:HA	2.20	0.41
1:B:403:GLN:C	1:B:404:ILE:HD12	2.45	0.41
1:B:565:GLN:OE1	1:B:581:ILE:HA	2.21	0.41
1:C:456:TYR:CD2	1:C:456:TYR:N	2.87	0.41
1:C:725:LEU:C	1:C:726:ILE:HD12	2.46	0.41
1:D:305:GLY:HA2	1:E:670:GLN:CD	2.46	0.41
1:D:423:ALA:O	1:D:424:GLN:HG2	2.17	0.41
2:d:1049:LEU:HD21	2:d:1066:VAL:HG21	2.03	0.41
1:F:272:SER:C	1:F:350:MET:HE3	2.46	0.41
1:F:293:THR:HG22	1:F:334:ILE:HA	2.01	0.41
1:G:622:SER:HA	1:G:627:LEU:HD23	2.03	0.41
1:G:635:ILE:O	1:G:637:LYS:N	2.53	0.41
1:G:670:GLN:HA	1:M:314:PHE:CZ	2.55	0.41
1:G:725:LEU:C	1:G:726:ILE:HD12	2.46	0.41
2:g:1178:VAL:HG12	2:g:1179:LEU:N	2.36	0.41
2:g:1185:GLN:HG3	2:g:1189:ILE:CD1	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:231:ASP:OD1	1:H:258:ALA:HB3	2.20	0.41
2:h:1045:LEU:HB2	2:h:1080:LEU:HD22	2.02	0.41
2:h:1194:GLU:C	2:h:1196:VAL:N	2.78	0.41
1:I:305:GLY:HA3	1:J:670:GLN:NE2	2.30	0.41
1:I:523:LEU:O	1:I:526:ALA:HB3	2.21	0.41
1:I:685:LEU:HD12	2:i:1054:SER:HA	2.03	0.41
1:J:289:ILE:O	1:J:289:ILE:HG13	2.21	0.41
1:J:515:GLU:OE1	1:K:245:LYS:HE2	2.21	0.41
1:K:289:ILE:O	1:K:289:ILE:HG13	2.21	0.41
1:K:413:SER:O	1:K:416:LEU:N	2.54	0.41
1:K:711:SER:C	1:K:713:ASN:N	2.77	0.41
2:k:1064:ASN:O	2:k:1068:GLN:HG3	2.21	0.41
1:L:423:ALA:C	1:L:424:GLN:CG	2.86	0.41
1:L:626:GLY:HA3	1:L:676:ILE:O	2.20	0.41
1:M:523:LEU:O	1:M:527:LEU:HD13	2.21	0.41
1:M:688:TYR:CD1	2:m:1056:ALA:HB1	2.56	0.41
1:O:438:GLN:C	1:O:440:LEU:N	2.79	0.41
1:O:725:LEU:C	1:O:726:ILE:HD12	2.46	0.41
2:o:1049:LEU:O	2:o:1084:VAL:HA	2.21	0.41
1:A:523:LEU:O	1:A:527:LEU:HD13	2.21	0.40
1:B:318:GLY:HA2	1:C:410:TYR:CE1	2.56	0.40
1:B:636:ARG:CA	1:B:639:LEU:HD23	2.50	0.40
1:B:725:LEU:C	1:B:726:ILE:HD12	2.46	0.40
2:b:1146:LEU:HD22	2:b:1146:LEU:N	2.36	0.40
1:C:521:MET:HA	1:C:521:MET:CE	2.36	0.40
1:C:546:ASP:C	1:C:548:THR:N	2.79	0.40
2:c:1146:LEU:N	2:c:1146:LEU:HD22	2.36	0.40
1:D:249:PRO:C	1:D:251:ALA:N	2.78	0.40
1:D:262:VAL:HG11	1:D:379:PRO:CG	2.48	0.40
1:D:670:GLN:HG2	1:O:305:GLY:HA2	1.92	0.40
2:d:1178:VAL:HG12	2:d:1179:LEU:N	2.36	0.40
1:E:287:ARG:O	1:E:350:MET:HG2	2.22	0.40
1:E:523:LEU:O	1:E:527:LEU:HD13	2.21	0.40
1:E:638:ILE:C	1:E:639:LEU:HD22	2.46	0.40
2:e:1064:ASN:O	2:e:1068:GLN:HG3	2.21	0.40
1:F:380:THR:HB	1:F:453:ASP:OD1	2.20	0.40
1:F:592:ARG:HD2	1:F:598:TYR:CE2	2.56	0.40
1:F:638:ILE:C	1:F:639:LEU:HD22	2.46	0.40
1:G:314:PHE:CZ	1:H:672:GLY:HA2	2.57	0.40
1:G:438:GLN:C	1:G:440:LEU:N	2.79	0.40
1:G:547:ILE:O	1:G:547:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:592:ARG:HD2	1:G:598:TYR:CE2	2.56	0.40
1:G:596:PHE:CD2	1:G:638:ILE:HD13	2.50	0.40
1:H:200:ARG:HD2	1:H:200:ARG:H	1.84	0.40
1:H:360:LEU:HD12	1:H:361:ASN:N	2.29	0.40
1:I:364:ILE:C	1:I:364:ILE:CD1	2.94	0.40
1:I:477:TRP:C	1:I:479:GLU:N	2.78	0.40
1:I:688:TYR:CD1	2:i:1056:ALA:HB1	2.56	0.40
2:i:1134:ALA:HB3	2:i:1139:THR:HG21	2.03	0.40
1:J:626:GLY:HA3	1:J:676:ILE:O	2.20	0.40
1:J:638:ILE:C	1:J:639:LEU:HD22	2.46	0.40
1:J:669:ARG:C	1:J:671:ASP:H	2.29	0.40
1:K:438:GLN:C	1:K:440:LEU:N	2.79	0.40
1:K:592:ARG:HD2	1:K:598:TYR:CE2	2.56	0.40
2:k:1151:LEU:HD13	2:k:1155:VAL:HG12	2.03	0.40
1:L:477:TRP:C	1:L:479:GLU:N	2.78	0.40
1:L:683:ASP:O	1:L:685:LEU:HG	2.21	0.40
1:M:413:SER:O	1:M:416:LEU:N	2.54	0.40
1:M:669:ARG:C	1:M:671:ASP:H	2.29	0.40
2:m:1142:ILE:HG23	2:m:1174:TYR:CE1	2.56	0.40
2:m:1146:LEU:HD22	2:m:1146:LEU:N	2.36	0.40
1:O:259:TYR:HA	1:O:260:PRO:HD3	1.90	0.40
1:O:345:THR:C	1:O:347:ALA:N	2.79	0.40
1:A:236:PHE:O	1:A:237:GLU:C	2.64	0.40
1:A:414:LYS:HE3	1:F:319:SER:H	1.86	0.40
1:A:565:GLN:OE1	1:A:581:ILE:HA	2.21	0.40
1:A:725:LEU:C	1:A:726:ILE:HD12	2.46	0.40
1:B:688:TYR:CD1	2:b:1056:ALA:HB1	2.56	0.40
2:b:1142:ILE:HG23	2:b:1174:TYR:CE1	2.56	0.40
1:C:437:ASN:N	1:C:437:ASN:HD22	2.19	0.40
1:C:683:ASP:O	1:C:685:LEU:HG	2.21	0.40
2:c:1086:SER:OG	2:c:1087:SER:N	2.50	0.40
1:D:366:TYR:O	1:D:411:TYR:N	2.40	0.40
1:D:380:THR:HG23	1:D:395:LYS:HD2	2.02	0.40
1:E:175:VAL:HA	1:E:176:PRO:HD3	1.94	0.40
1:E:310:HIS:HE2	1:E:319:SER:HG	1.66	0.40
1:E:484:ILE:N	1:E:484:ILE:CD1	2.84	0.40
1:E:685:LEU:HD12	2:e:1054:SER:HA	2.03	0.40
2:e:1151:LEU:HD13	2:e:1155:VAL:HG12	2.02	0.40
1:F:266:MET:CA	1:F:364:ILE:HG22	2.47	0.40
1:F:364:ILE:C	1:F:364:ILE:CD1	2.94	0.40
1:F:622:SER:HA	1:F:627:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:534:ASN:ND2	1:H:536:PRO:HG3	2.36	0.40
1:H:669:ARG:C	1:H:671:ASP:H	2.29	0.40
1:I:638:ILE:C	1:I:639:LEU:HD22	2.46	0.40
2:i:1045:LEU:HB2	2:i:1080:LEU:HD22	2.02	0.40
2:i:1049:LEU:HD21	2:i:1066:VAL:HG21	2.03	0.40
2:i:1146:LEU:N	2:i:1146:LEU:HD22	2.36	0.40
1:L:193:THR:HB	1:L:217:THR:O	2.21	0.40
1:L:438:GLN:C	1:L:440:LEU:N	2.79	0.40
1:L:497:ASP:HB3	1:L:498:LEU:H	1.75	0.40
1:M:207:ILE:O	1:M:211:HIS:HB2	2.20	0.40
1:M:289:ILE:O	1:M:289:ILE:HG13	2.21	0.40
1:M:310:HIS:HE2	1:M:319:SER:HG	1.65	0.40
1:M:403:GLN:C	1:M:404:ILE:HD12	2.45	0.40
1:M:642:TYR:CD1	1:M:700:ALA:HA	2.55	0.40
1:M:665:ILE:HG13	1:M:666:SER:H	1.85	0.40
2:m:1112:VAL:O	2:m:1114:PRO:HD3	2.21	0.40
1:O:523:LEU:O	1:O:527:LEU:HD13	2.21	0.40
2:o:1146:LEU:HD22	2:o:1146:LEU:N	2.37	0.40
1:A:245:LYS:HE2	1:F:515:GLU:OE1	2.20	0.40
1:A:269:ILE:HD11	1:A:334:ILE:HD13	2.04	0.40
1:A:523:LEU:O	1:A:526:ALA:HB3	2.21	0.40
1:A:592:ARG:HD2	1:A:598:TYR:CE2	2.56	0.40
2:a:1064:ASN:O	2:a:1068:GLN:HG3	2.21	0.40
2:a:1178:VAL:HG12	2:a:1179:LEU:N	2.37	0.40
1:B:269:ILE:HD11	1:B:334:ILE:HD13	2.04	0.40
1:B:438:GLN:C	1:B:440:LEU:N	2.79	0.40
2:b:1064:ASN:O	2:b:1068:GLN:HG3	2.21	0.40
1:C:269:ILE:HD11	1:C:334:ILE:HD13	2.04	0.40
1:C:497:ASP:HB3	1:C:498:LEU:H	1.75	0.40
1:C:669:ARG:C	1:C:671:ASP:H	2.29	0.40
1:C:711:SER:O	1:C:713:ASN:N	2.55	0.40
1:D:271:LEU:HD23	1:D:360:LEU:HD13	2.04	0.40
2:d:1142:ILE:HG23	2:d:1174:TYR:CE1	2.56	0.40
1:E:289:ILE:O	1:E:289:ILE:HG13	2.21	0.40
1:E:437:ASN:N	1:E:437:ASN:HD22	2.19	0.40
1:E:477:TRP:C	1:E:479:GLU:N	2.78	0.40
1:E:683:ASP:O	1:E:685:LEU:HG	2.21	0.40
2:e:1142:ILE:HG23	2:e:1174:TYR:CE1	2.56	0.40
2:e:1202:GLY:C	2:e:1204:GLN:N	2.79	0.40
2:e:1214:LEU:C	2:e:1216:GLN:H	2.27	0.40
1:F:231:ASP:OD1	1:F:258:ALA:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:725:LEU:C	1:F:726:ILE:HD12	2.46	0.40
1:G:231:ASP:OD1	1:G:258:ALA:HB3	2.20	0.40
1:G:565:GLN:OE1	1:G:581:ILE:HA	2.21	0.40
1:H:260:PRO:HG3	1:H:372:ALA:CB	2.51	0.40
1:H:523:LEU:O	1:H:527:LEU:HD13	2.21	0.40
1:H:638:ILE:C	1:H:639:LEU:HD22	2.46	0.40
2:h:1151:LEU:HD13	2:h:1155:VAL:HG12	2.03	0.40
1:I:175:VAL:HA	1:I:176:PRO:HD3	1.94	0.40
1:I:188:GLU:HA	1:I:192:TYR:HE2	1.86	0.40
1:J:380:THR:HB	1:J:453:ASP:OD1	2.20	0.40
1:J:477:TRP:C	1:J:479:GLU:N	2.78	0.40
1:J:498:LEU:N	1:J:498:LEU:CD2	2.82	0.40
1:K:523:LEU:O	1:K:527:LEU:HD13	2.21	0.40
1:K:665:ILE:HG13	1:K:666:SER:H	1.85	0.40
1:K:725:LEU:C	1:K:726:ILE:HD12	2.46	0.40
1:L:260:PRO:HG3	1:L:372:ALA:CB	2.51	0.40
1:L:523:LEU:O	1:L:526:ALA:HB3	2.21	0.40
2:l:1178:VAL:HG12	2:l:1179:LEU:N	2.37	0.40
1:M:236:PHE:O	1:M:237:GLU:C	2.64	0.40
1:M:271:LEU:HD21	1:M:360:LEU:HD13	2.04	0.40
1:M:547:ILE:O	1:M:547:ILE:HG13	2.20	0.40
1:M:711:SER:O	1:M:713:ASN:N	2.55	0.40
1:O:243:ILE:HG12	1:O:244:ASP:H	1.80	0.40
1:O:287:ARG:O	1:O:350:MET:HG2	2.22	0.40
1:O:360:LEU:C	1:O:432:ILE:HD12	2.46	0.40
1:O:546:ASP:C	1:O:548:THR:N	2.79	0.40
1:O:635:ILE:O	1:O:636:ARG:C	2.63	0.40
2:o:1142:ILE:HG23	2:o:1174:TYR:CE1	2.56	0.40
1:A:534:ASN:ND2	1:A:536:PRO:HG3	2.36	0.40
1:A:627:LEU:HB3	1:A:629:LEU:HD11	2.04	0.40
1:A:688:TYR:CD1	2:a:1056:ALA:HB1	2.56	0.40
1:B:423:ALA:O	1:B:424:GLN:HG2	2.17	0.40
1:B:523:LEU:O	1:B:526:ALA:HB3	2.21	0.40
2:b:1151:LEU:HD13	2:b:1155:VAL:HG12	2.02	0.40
1:C:395:LYS:HZ3	1:C:398:GLU:CD	2.29	0.40
1:C:483:GLN:HE22	1:O:245:LYS:N	2.20	0.40
1:C:523:LEU:O	1:C:527:LEU:HD13	2.21	0.40
1:C:565:GLN:OE1	1:C:581:ILE:HA	2.21	0.40
1:D:287:ARG:O	1:D:350:MET:HG2	2.22	0.40
1:D:565:GLN:OE1	1:D:581:ILE:HA	2.21	0.40
1:E:224:GLU:OE2	1:F:201:THR:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:262:VAL:HG11	1:E:379:PRO:CG	2.48	0.40
1:E:269:ILE:HD11	1:E:334:ILE:HD13	2.04	0.40
1:E:381:THR:HG23	1:E:394:ILE:CG1	2.34	0.40
1:F:627:LEU:HG	1:F:678:PHE:HZ	1.87	0.40
1:F:669:ARG:C	1:F:671:ASP:H	2.29	0.40
1:F:688:TYR:CD1	2:f:1056:ALA:HB1	2.56	0.40
1:F:711:SER:O	1:F:713:ASN:N	2.55	0.40
1:G:627:LEU:HB3	1:G:629:LEU:HD11	2.04	0.40
1:H:236:PHE:O	1:H:237:GLU:C	2.64	0.40
1:H:523:LEU:O	1:H:526:ALA:HB3	2.21	0.40
1:H:626:GLY:HA3	1:H:676:ILE:O	2.20	0.40
1:H:685:LEU:HD12	2:h:1054:SER:HA	2.03	0.40
1:I:437:ASN:N	1:I:437:ASN:HD22	2.19	0.40
1:J:404:ILE:N	1:J:404:ILE:CD1	2.82	0.40
1:J:547:ILE:O	1:J:547:ILE:HG13	2.20	0.40
1:J:565:GLN:OE1	1:J:581:ILE:HA	2.21	0.40
1:J:635:ILE:O	1:J:636:ARG:C	2.64	0.40
2:j:1142:ILE:HG23	2:j:1174:TYR:CE1	2.56	0.40
2:j:1178:VAL:HG12	2:j:1179:LEU:N	2.37	0.40
1:K:211:HIS:C	1:K:213:LYS:N	2.80	0.40
1:K:305:GLY:HA3	1:L:670:GLN:HE21	1.73	0.40
1:K:394:ILE:HD13	1:K:421:LEU:CD2	2.51	0.40
1:K:512:ASP:OD1	1:K:515:GLU:HB2	2.20	0.40
1:K:534:ASN:ND2	1:K:536:PRO:HG3	2.36	0.40
1:L:207:ILE:O	1:L:211:HIS:HB2	2.20	0.40
1:L:231:ASP:OD1	1:L:258:ALA:HB3	2.20	0.40
1:L:272:SER:C	1:L:350:MET:HE3	2.46	0.40
1:L:338:LEU:HG	1:L:661:ASP:HB2	2.04	0.40
2:l:1142:ILE:HG23	2:l:1174:TYR:CE1	2.56	0.40
1:M:481:LEU:N	1:M:482:PRO:CD	2.75	0.40
1:O:381:THR:HG23	1:O:394:ILE:CG1	2.34	0.40
1:O:394:ILE:HD13	1:O:421:LEU:CD2	2.51	0.40
1:O:547:ILE:O	1:O:547:ILE:HG13	2.20	0.40
1:A:186:SER:O	1:A:187:LEU:C	2.64	0.40
1:A:193:THR:HB	1:A:217:THR:O	2.20	0.40
1:A:685:LEU:HD12	2:a:1054:SER:HA	2.03	0.40
2:a:1049:LEU:HD21	2:a:1066:VAL:HG21	2.03	0.40
2:a:1146:LEU:HD22	2:a:1146:LEU:N	2.36	0.40
1:B:186:SER:O	1:B:187:LEU:C	2.64	0.40
1:B:360:LEU:C	1:B:432:ILE:HD12	2.46	0.40
1:B:380:THR:HB	1:B:453:ASP:OD1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1049:LEU:HD21	2:b:1066:VAL:HG21	2.03	0.40
1:C:642:TYR:CE2	1:C:666:SER:HB3	2.57	0.40
2:c:1125:LYS:C	2:c:1127:ALA:N	2.76	0.40
2:c:1134:ALA:HB3	2:c:1139:THR:HG21	2.04	0.40
2:c:1142:ILE:HG23	2:c:1174:TYR:CE1	2.56	0.40
1:D:471:VAL:HG23	1:O:479:GLU:HG2	2.04	0.40
1:D:635:ILE:O	1:D:636:ARG:C	2.64	0.40
1:D:638:ILE:C	1:D:639:LEU:HD22	2.46	0.40
1:D:669:ARG:C	1:D:671:ASP:H	2.29	0.40
1:D:685:LEU:HD12	2:d:1054:SER:HA	2.03	0.40
1:D:688:TYR:CD1	2:d:1056:ALA:HB1	2.56	0.40
1:E:395:LYS:HZ3	1:E:398:GLU:CD	2.29	0.40
1:E:592:ARG:HD2	1:E:598:TYR:CE2	2.56	0.40
1:E:688:TYR:CD1	2:e:1056:ALA:HB1	2.56	0.40
2:f:1128:ASN:HA	2:f:1131:ILE:HD12	2.02	0.40
1:G:271:LEU:HD21	1:G:360:LEU:HD13	2.04	0.40
1:G:683:ASP:O	1:G:685:LEU:HG	2.21	0.40
1:H:226:TRP:HB2	1:I:466:ASN:C	2.47	0.40
1:H:272:SER:C	1:H:350:MET:HE3	2.46	0.40
1:H:364:ILE:C	1:H:364:ILE:CD1	2.94	0.40
1:I:546:ASP:C	1:I:548:THR:N	2.79	0.40
1:I:565:GLN:OE1	1:I:581:ILE:HA	2.21	0.40
1:J:186:SER:O	1:J:187:LEU:C	2.64	0.40
1:J:360:LEU:C	1:J:432:ILE:HD12	2.46	0.40
1:J:711:SER:O	1:J:713:ASN:N	2.55	0.40
2:j:1146:LEU:HD22	2:j:1146:LEU:N	2.36	0.40
2:j:1194:GLU:C	2:j:1196:VAL:N	2.78	0.40
1:K:403:GLN:C	1:K:404:ILE:HD12	2.45	0.40
1:K:627:LEU:HG	1:K:678:PHE:HZ	1.87	0.40
1:K:669:ARG:C	1:K:671:ASP:H	2.29	0.40
2:k:1057:ASN:N	2:k:1057:ASN:HD22	2.20	0.40
1:L:271:LEU:HD23	1:L:360:LEU:HD13	2.04	0.40
1:L:592:ARG:HD2	1:L:598:TYR:CE2	2.56	0.40
1:L:685:LEU:HD12	2:l:1054:SER:HA	2.03	0.40
2:l:1146:LEU:HD22	2:l:1146:LEU:N	2.36	0.40
1:M:260:PRO:HG3	1:M:372:ALA:CB	2.51	0.40
1:M:360:LEU:C	1:M:432:ILE:HD12	2.46	0.40
1:M:523:LEU:O	1:M:526:ALA:HB3	2.21	0.40
1:M:565:GLN:OE1	1:M:581:ILE:HA	2.21	0.40
1:O:207:ILE:C	1:O:209:ASN:N	2.80	0.40
1:O:236:PHE:O	1:O:237:GLU:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:296:SER:O	1:O:297:ARG:C	2.65	0.40
1:O:364:ILE:C	1:O:364:ILE:CD1	2.94	0.40
1:O:441:GLU:O	1:O:442:LEU:C	2.65	0.40
1:O:642:TYR:CE2	1:O:666:SER:HB3	2.57	0.40
2:o:1064:ASN:O	2:o:1068:GLN:HG3	2.21	0.40

All (32) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:546:ASP:OD2	2:l:1203:PHE:CE1[1_455]	0.85	1.35
1:F:570:ASN:CG	1:G:197:LYS:NZ[1_544]	1.33	0.87
2:b:1067:GLN:OE1	1:E:537:ASN:OD1[1_455]	1.36	0.84
1:A:197:LYS:NZ	1:M:570:ASN:ND2[1_544]	1.37	0.83
1:A:197:LYS:NZ	1:M:570:ASN:CG[1_544]	1.45	0.75
2:e:1039:CYS:O	2:k:1134:ALA:O[1_445]	1.45	0.75
1:A:197:LYS:NZ	1:M:570:ASN:OD1[1_544]	1.56	0.64
2:a:1064:ASN:OD1	1:O:537:ASN:CB[1_545]	1.63	0.57
1:F:570:ASN:ND2	1:G:197:LYS:CD[1_544]	1.66	0.54
1:A:197:LYS:CE	1:M:570:ASN:ND2[1_544]	1.67	0.53
2:a:1203:PHE:CZ	1:O:546:ASP:CB[1_545]	1.68	0.52
1:F:570:ASN:ND2	1:G:197:LYS:NZ[1_544]	1.70	0.50
2:e:1038:SER:OG	2:k:1132:GLN:O[1_445]	1.72	0.48
1:H:546:ASP:CG	2:l:1203:PHE:CE1[1_455]	1.72	0.48
1:H:546:ASP:OD2	2:l:1203:PHE:CD1[1_455]	1.75	0.45
1:C:210:ILE:CG2	1:K:570:ASN:OD1[1_454]	1.81	0.39
1:D:719:ASN:ND2	1:H:691:ASN:ND2[1_545]	1.84	0.36
1:F:570:ASN:OD1	1:G:197:LYS:NZ[1_544]	1.88	0.32
1:F:209:ASN:ND2	1:M:538:GLY:CA[1_544]	1.90	0.30
1:F:538:GLY:N	1:M:209:ASN:ND2[1_544]	1.94	0.26
1:F:570:ASN:ND2	1:G:197:LYS:CE[1_544]	1.94	0.26
1:D:722:LYS:CD	2:h:1110:LYS:NZ[1_545]	2.00	0.20
1:J:619:VAL:O	2:m:1218:CYS:OXT[1_545]	2.01	0.19
1:C:210:ILE:CB	1:K:570:ASN:OD1[1_454]	2.04	0.16
1:F:535:GLU:O	1:M:209:ASN:OD1[1_544]	2.07	0.13
2:e:1133:LYS:O	2:k:1038:SER:CB[1_445]	2.08	0.12
2:e:1079:ARG:NH1	2:k:1041:ARG:NH2[1_445]	2.11	0.09
1:F:570:ASN:CB	1:G:197:LYS:NZ[1_544]	2.11	0.09
1:H:546:ASP:OD2	2:l:1203:PHE:CZ[1_455]	2.12	0.08
2:b:1067:GLN:CD	1:E:537:ASN:OD1[1_455]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:e:1133:LYS:C	2:k:1038:SER:OG[1_445]	2.17	0.03
1:A:197:LYS:CD	1:M:570:ASN:ND2[1_544]	2.19	0.01

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	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	B	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	C	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	11
1	D	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	E	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	F	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	11
1	G	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	H	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	I	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	J	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	K	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	L	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
1	M	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	11
1	O	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	11
2	a	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	b	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	c	179/181 (99%)	143 (80%)	30 (17%)	6 (3%)	3	21
2	d	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	e	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	f	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	g	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	h	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	i	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	j	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	k	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	l	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	m	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
2	o	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	3	21
All	All	10150/10402 (98%)	7248 (71%)	2258 (22%)	644 (6%)	1	13

All (644) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	197	LYS
1	A	209	ASN
1	A	422	ASN
1	A	656	ILE
2	a	1086	SER
1	B	197	LYS
1	B	209	ASN
1	B	422	ASN
1	B	656	ILE
2	b	1086	SER
1	C	197	LYS
1	C	209	ASN
1	C	422	ASN
1	C	656	ILE
2	c	1086	SER
1	D	197	LYS
1	D	209	ASN
1	D	422	ASN
1	D	656	ILE
2	d	1086	SER
1	E	197	LYS
1	E	209	ASN
1	E	422	ASN
1	E	656	ILE
2	e	1086	SER

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Mol	Chain	Res	Type
1	F	197	LYS
1	F	209	ASN
1	F	422	ASN
1	F	656	ILE
2	f	1086	SER
1	G	197	LYS
1	G	209	ASN
1	G	422	ASN
1	G	656	ILE
2	g	1086	SER
1	H	197	LYS
1	H	209	ASN
1	H	422	ASN
1	H	656	ILE
2	h	1086	SER
1	I	197	LYS
1	I	209	ASN
1	I	422	ASN
1	I	656	ILE
2	i	1086	SER
1	J	197	LYS
1	J	209	ASN
1	J	422	ASN
1	J	656	ILE
2	j	1086	SER
1	K	197	LYS
1	K	209	ASN
1	K	422	ASN
1	K	656	ILE
2	k	1086	SER
1	L	197	LYS
1	L	209	ASN
1	L	422	ASN
1	L	656	ILE
2	l	1086	SER
1	M	197	LYS
1	M	209	ASN
1	M	422	ASN
1	M	656	ILE
2	m	1086	SER
1	O	197	LYS
1	O	209	ASN

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Mol	Chain	Res	Type
1	O	422	ASN
1	O	656	ILE
2	o	1086	SER
1	A	185	ASP
1	A	198	ASN
1	A	305	GLY
1	A	327	SER
1	A	341	ALA
1	A	347	ALA
1	A	354	THR
1	A	413	SER
1	A	414	LYS
1	A	431	PRO
1	A	481	LEU
1	A	515	GLU
1	A	570	ASN
1	A	728	SER
1	B	185	ASP
1	B	198	ASN
1	B	305	GLY
1	B	327	SER
1	B	341	ALA
1	B	347	ALA
1	B	354	THR
1	B	413	SER
1	B	414	LYS
1	B	431	PRO
1	B	481	LEU
1	B	515	GLU
1	B	570	ASN
1	B	728	SER
1	C	185	ASP
1	C	198	ASN
1	C	305	GLY
1	C	327	SER
1	C	341	ALA
1	C	347	ALA
1	C	354	THR
1	C	413	SER
1	C	414	LYS
1	C	431	PRO
1	C	481	LEU

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Mol	Chain	Res	Type
1	C	515	GLU
1	C	570	ASN
1	C	728	SER
1	D	185	ASP
1	D	198	ASN
1	D	305	GLY
1	D	327	SER
1	D	341	ALA
1	D	347	ALA
1	D	354	THR
1	D	413	SER
1	D	414	LYS
1	D	431	PRO
1	D	481	LEU
1	D	515	GLU
1	D	570	ASN
1	D	728	SER
1	E	185	ASP
1	E	198	ASN
1	E	305	GLY
1	E	327	SER
1	E	341	ALA
1	E	347	ALA
1	E	354	THR
1	E	413	SER
1	E	414	LYS
1	E	431	PRO
1	E	481	LEU
1	E	515	GLU
1	E	570	ASN
1	E	728	SER
1	F	185	ASP
1	F	198	ASN
1	F	305	GLY
1	F	327	SER
1	F	341	ALA
1	F	347	ALA
1	F	354	THR
1	F	413	SER
1	F	414	LYS
1	F	431	PRO
1	F	481	LEU

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Mol	Chain	Res	Type
1	F	515	GLU
1	F	570	ASN
1	F	728	SER
1	G	185	ASP
1	G	198	ASN
1	G	305	GLY
1	G	327	SER
1	G	341	ALA
1	G	347	ALA
1	G	354	THR
1	G	413	SER
1	G	414	LYS
1	G	431	PRO
1	G	481	LEU
1	G	515	GLU
1	G	570	ASN
1	G	728	SER
1	H	185	ASP
1	H	198	ASN
1	H	305	GLY
1	H	327	SER
1	H	341	ALA
1	H	347	ALA
1	H	354	THR
1	H	413	SER
1	H	414	LYS
1	H	431	PRO
1	H	481	LEU
1	H	515	GLU
1	H	570	ASN
1	H	728	SER
1	I	185	ASP
1	I	198	ASN
1	I	305	GLY
1	I	327	SER
1	I	341	ALA
1	I	347	ALA
1	I	354	THR
1	I	413	SER
1	I	414	LYS
1	I	431	PRO
1	I	481	LEU

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Mol	Chain	Res	Type
1	I	515	GLU
1	I	570	ASN
1	I	728	SER
1	J	185	ASP
1	J	198	ASN
1	J	305	GLY
1	J	327	SER
1	J	341	ALA
1	J	347	ALA
1	J	354	THR
1	J	413	SER
1	J	414	LYS
1	J	431	PRO
1	J	481	LEU
1	J	515	GLU
1	J	570	ASN
1	J	728	SER
1	K	185	ASP
1	K	198	ASN
1	K	305	GLY
1	K	327	SER
1	K	341	ALA
1	K	347	ALA
1	K	354	THR
1	K	413	SER
1	K	414	LYS
1	K	431	PRO
1	K	481	LEU
1	K	515	GLU
1	K	570	ASN
1	K	728	SER
1	L	185	ASP
1	L	198	ASN
1	L	305	GLY
1	L	327	SER
1	L	341	ALA
1	L	347	ALA
1	L	354	THR
1	L	413	SER
1	L	414	LYS
1	L	431	PRO
1	L	481	LEU

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Mol	Chain	Res	Type
1	L	515	GLU
1	L	570	ASN
1	L	728	SER
1	M	185	ASP
1	M	198	ASN
1	M	305	GLY
1	M	327	SER
1	M	341	ALA
1	M	347	ALA
1	M	354	THR
1	M	413	SER
1	M	414	LYS
1	M	431	PRO
1	M	481	LEU
1	M	515	GLU
1	M	570	ASN
1	M	728	SER
1	O	185	ASP
1	O	198	ASN
1	O	305	GLY
1	O	327	SER
1	O	341	ALA
1	O	347	ALA
1	O	354	THR
1	O	413	SER
1	O	414	LYS
1	O	431	PRO
1	O	481	LEU
1	O	515	GLU
1	O	570	ASN
1	O	728	SER
1	A	216	LEU
1	A	230	SER
1	A	345	THR
1	A	579	ASP
1	A	610	SER
1	A	636	ARG
1	A	651	GLY
1	B	216	LEU
1	B	230	SER
1	B	345	THR
1	B	579	ASP

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Mol	Chain	Res	Type
1	B	610	SER
1	B	636	ARG
1	B	651	GLY
1	C	216	LEU
1	C	230	SER
1	C	345	THR
1	C	579	ASP
1	C	610	SER
1	C	651	GLY
1	D	216	LEU
1	D	230	SER
1	D	345	THR
1	D	579	ASP
1	D	610	SER
1	D	651	GLY
1	E	216	LEU
1	E	230	SER
1	E	345	THR
1	E	579	ASP
1	E	610	SER
1	E	636	ARG
1	E	651	GLY
1	F	216	LEU
1	F	230	SER
1	F	345	THR
1	F	579	ASP
1	F	610	SER
1	F	651	GLY
1	G	216	LEU
1	G	230	SER
1	G	345	THR
1	G	579	ASP
1	G	610	SER
1	G	651	GLY
1	H	216	LEU
1	H	230	SER
1	H	345	THR
1	H	579	ASP
1	H	610	SER
1	H	651	GLY
1	I	216	LEU
1	I	230	SER

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Mol	Chain	Res	Type
1	I	345	THR
1	I	579	ASP
1	I	610	SER
1	I	651	GLY
1	J	216	LEU
1	J	230	SER
1	J	345	THR
1	J	579	ASP
1	J	610	SER
1	J	636	ARG
1	J	651	GLY
1	K	216	LEU
1	K	230	SER
1	K	345	THR
1	K	579	ASP
1	K	610	SER
1	K	651	GLY
1	L	216	LEU
1	L	230	SER
1	L	345	THR
1	L	579	ASP
1	L	610	SER
1	L	636	ARG
1	L	651	GLY
1	M	216	LEU
1	M	230	SER
1	M	345	THR
1	M	579	ASP
1	M	610	SER
1	M	636	ARG
1	M	651	GLY
1	O	216	LEU
1	O	230	SER
1	O	345	THR
1	O	579	ASP
1	O	610	SER
1	O	651	GLY
1	A	208	SER
1	A	299	HIS
1	A	388	ASN
1	A	408	ASN
1	A	682	ASN

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Mol	Chain	Res	Type
2	a	1138	LYS
2	a	1195	GLN
1	B	208	SER
1	B	299	HIS
1	B	388	ASN
1	B	408	ASN
1	B	682	ASN
2	b	1138	LYS
2	b	1195	GLN
1	C	208	SER
1	C	299	HIS
1	C	388	ASN
1	C	408	ASN
1	C	636	ARG
1	C	682	ASN
2	c	1138	LYS
2	c	1195	GLN
1	D	208	SER
1	D	299	HIS
1	D	388	ASN
1	D	408	ASN
1	D	636	ARG
1	D	682	ASN
2	d	1138	LYS
2	d	1195	GLN
1	E	208	SER
1	E	299	HIS
1	E	388	ASN
1	E	408	ASN
1	E	682	ASN
2	e	1138	LYS
2	e	1195	GLN
1	F	208	SER
1	F	299	HIS
1	F	388	ASN
1	F	408	ASN
1	F	636	ARG
1	F	682	ASN
2	f	1138	LYS
2	f	1195	GLN
1	G	208	SER
1	G	299	HIS

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Mol	Chain	Res	Type
1	G	388	ASN
1	G	408	ASN
1	G	636	ARG
1	G	682	ASN
2	g	1138	LYS
2	g	1195	GLN
1	H	208	SER
1	H	299	HIS
1	H	388	ASN
1	H	408	ASN
1	H	636	ARG
1	H	682	ASN
2	h	1195	GLN
1	I	208	SER
1	I	299	HIS
1	I	388	ASN
1	I	408	ASN
1	I	636	ARG
1	I	682	ASN
2	i	1138	LYS
2	i	1195	GLN
1	J	208	SER
1	J	299	HIS
1	J	388	ASN
1	J	408	ASN
1	J	682	ASN
2	j	1138	LYS
2	j	1195	GLN
1	K	208	SER
1	K	299	HIS
1	K	388	ASN
1	K	408	ASN
1	K	636	ARG
1	K	682	ASN
2	k	1138	LYS
2	k	1195	GLN
1	L	208	SER
1	L	299	HIS
1	L	388	ASN
1	L	408	ASN
1	L	682	ASN
2	l	1138	LYS

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Mol	Chain	Res	Type
2	l	1195	GLN
1	M	208	SER
1	M	299	HIS
1	M	388	ASN
1	M	408	ASN
1	M	682	ASN
2	m	1138	LYS
2	m	1195	GLN
1	O	208	SER
1	O	299	HIS
1	O	388	ASN
1	O	408	ASN
1	O	636	ARG
1	O	682	ASN
2	o	1138	LYS
2	o	1195	GLN
1	A	306	ASN
1	A	337	SER
1	A	411	TYR
1	A	463	ASN
2	a	1117	GLU
2	a	1181	PHE
1	B	306	ASN
1	B	337	SER
1	B	411	TYR
1	B	463	ASN
1	B	712	GLU
2	b	1117	GLU
2	b	1181	PHE
1	C	306	ASN
1	C	337	SER
1	C	411	TYR
1	C	463	ASN
1	C	712	GLU
2	c	1117	GLU
2	c	1181	PHE
1	D	306	ASN
1	D	337	SER
1	D	411	TYR
1	D	463	ASN
2	d	1117	GLU
2	d	1181	PHE

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Mol	Chain	Res	Type
1	E	306	ASN
1	E	337	SER
1	E	411	TYR
1	E	463	ASN
2	e	1117	GLU
2	e	1181	PHE
1	F	306	ASN
1	F	337	SER
1	F	411	TYR
1	F	463	ASN
2	f	1117	GLU
2	f	1181	PHE
1	G	306	ASN
1	G	337	SER
1	G	411	TYR
1	G	463	ASN
1	G	712	GLU
2	g	1117	GLU
2	g	1181	PHE
1	H	306	ASN
1	H	337	SER
1	H	411	TYR
1	H	463	ASN
2	h	1117	GLU
2	h	1138	LYS
2	h	1181	PHE
1	I	306	ASN
1	I	337	SER
1	I	411	TYR
1	I	463	ASN
2	i	1117	GLU
2	i	1181	PHE
1	J	306	ASN
1	J	337	SER
1	J	411	TYR
1	J	463	ASN
1	J	712	GLU
2	j	1117	GLU
2	j	1181	PHE
1	K	306	ASN
1	K	337	SER
1	K	411	TYR

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Mol	Chain	Res	Type
1	K	463	ASN
2	k	1117	GLU
2	k	1181	PHE
1	L	306	ASN
1	L	337	SER
1	L	411	TYR
1	L	463	ASN
2	l	1117	GLU
2	l	1181	PHE
1	M	306	ASN
1	M	337	SER
1	M	411	TYR
1	M	463	ASN
2	m	1117	GLU
2	m	1181	PHE
1	O	306	ASN
1	O	337	SER
1	O	411	TYR
1	O	463	ASN
1	O	712	GLU
2	o	1117	GLU
2	o	1181	PHE
1	A	370	GLY
1	A	712	GLU
1	B	370	GLY
1	C	370	GLY
1	D	370	GLY
1	D	712	GLU
1	E	370	GLY
1	E	712	GLU
1	F	370	GLY
1	F	712	GLU
1	G	370	GLY
1	H	370	GLY
1	H	712	GLU
1	I	370	GLY
1	I	712	GLU
1	J	370	GLY
1	K	370	GLY
1	K	712	GLU
1	L	370	GLY
1	L	712	GLU

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Mol	Chain	Res	Type
1	M	370	GLY
1	M	712	GLU
1	O	370	GLY
1	A	303	VAL
1	B	303	VAL
1	C	303	VAL
1	D	303	VAL
1	E	303	VAL
1	F	303	VAL
1	G	303	VAL
1	H	303	VAL
1	I	303	VAL
1	J	303	VAL
1	K	303	VAL
1	L	303	VAL
1	M	303	VAL
1	O	303	VAL
1	A	577	VAL
1	A	734	ILE
1	B	577	VAL
1	B	734	ILE
1	C	577	VAL
1	C	734	ILE
1	D	577	VAL
1	D	734	ILE
1	E	577	VAL
1	E	734	ILE
1	F	577	VAL
1	F	734	ILE
1	G	577	VAL
1	G	734	ILE
1	H	577	VAL
1	H	734	ILE
1	I	577	VAL
1	I	734	ILE
1	J	577	VAL
1	J	734	ILE
1	K	577	VAL
1	K	734	ILE
1	L	577	VAL
1	L	734	ILE
1	M	577	VAL

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Mol	Chain	Res	Type
1	M	734	ILE
1	O	577	VAL
1	O	734	ILE
1	A	513	PRO
2	a	1094	PRO
1	B	513	PRO
2	b	1094	PRO
1	C	513	PRO
2	c	1094	PRO
1	D	513	PRO
2	d	1094	PRO
1	E	513	PRO
2	e	1094	PRO
1	F	513	PRO
2	f	1094	PRO
1	G	513	PRO
2	g	1094	PRO
1	H	513	PRO
2	h	1094	PRO
1	I	513	PRO
2	i	1094	PRO
1	J	513	PRO
2	j	1094	PRO
1	K	513	PRO
2	k	1094	PRO
1	L	513	PRO
2	l	1094	PRO
1	M	513	PRO
2	m	1094	PRO
1	O	513	PRO
2	o	1094	PRO

5.3.2 Protein sidechains ⓘ

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 42 ligands modelled in this entry, 42 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [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	552/562 (98%)	0.81	45 (8%)	17	21	1, 36, 166, 200	0
1	B	552/562 (98%)	0.70	32 (5%)	29	28	1, 36, 166, 200	0
1	C	552/562 (98%)	0.97	69 (12%)	8	12	1, 36, 166, 200	0
1	D	552/562 (98%)	0.71	41 (7%)	20	23	1, 36, 166, 200	0
1	E	552/562 (98%)	0.72	29 (5%)	32	30	1, 36, 166, 200	0
1	F	552/562 (98%)	0.79	39 (7%)	22	23	1, 36, 166, 200	0
1	G	552/562 (98%)	0.80	48 (8%)	16	19	1, 36, 166, 200	0
1	H	552/562 (98%)	0.80	43 (7%)	19	21	1, 36, 166, 200	0
1	I	552/562 (98%)	0.71	44 (7%)	18	21	1, 36, 166, 200	0
1	J	552/562 (98%)	0.83	45 (8%)	17	21	1, 36, 166, 200	0
1	K	552/562 (98%)	0.84	58 (10%)	11	15	1, 36, 166, 200	0
1	L	552/562 (98%)	0.80	48 (8%)	16	19	1, 36, 166, 200	0
1	M	552/562 (98%)	0.82	40 (7%)	21	23	1, 36, 166, 200	0
1	O	552/562 (98%)	0.77	48 (8%)	16	19	1, 36, 166, 200	0
2	a	181/181 (100%)	1.50	54 (29%)	1	4	6, 92, 179, 200	0
2	b	181/181 (100%)	0.91	22 (12%)	8	12	6, 92, 179, 200	0
2	c	181/181 (100%)	1.55	50 (27%)	1	4	6, 92, 179, 200	0
2	d	181/181 (100%)	1.10	24 (13%)	7	11	6, 92, 179, 200	0
2	e	181/181 (100%)	1.18	24 (13%)	7	11	6, 92, 179, 200	0
2	f	181/181 (100%)	1.21	21 (11%)	9	13	6, 92, 179, 200	0
2	g	181/181 (100%)	1.24	33 (18%)	3	7	6, 92, 179, 200	0
2	h	181/181 (100%)	1.14	29 (16%)	5	9	6, 92, 179, 200	0
2	i	181/181 (100%)	1.08	26 (14%)	6	10	6, 92, 179, 200	0
2	j	181/181 (100%)	1.87	67 (37%)	1	3	6, 92, 179, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
2	k	181/181 (100%)	1.36	45 (24%) 2 5	6, 92, 179, 200	0
2	l	181/181 (100%)	1.74	58 (32%) 1 3	6, 92, 179, 200	0
2	m	181/181 (100%)	0.99	17 (9%) 14 18	6, 92, 179, 200	0
2	o	181/181 (100%)	1.25	39 (21%) 2 6	6, 92, 179, 200	0
All	All	10262/10402 (98%)	0.92	1138 (11%) 10 14	1, 54, 174, 200	0

All (1138) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	M	319	SER	12.2
1	E	319	SER	9.1
1	J	424	GLN	7.8
1	I	424	GLN	7.8
1	J	319	SER	7.8
2	f	1038	SER	7.7
1	B	319	SER	7.5
2	l	1053	GLY	7.5
2	c	1055	VAL	7.4
2	j	1175	CYS	7.3
2	l	1197	PHE	7.2
1	M	318	GLY	7.1
1	F	285	GLN	7.0
2	g	1097	GLY	6.8
1	O	539	ASN	6.5
2	j	1205	ALA	6.3
1	F	607	ALA	6.2
1	K	693	ASN	6.2
1	A	424	GLN	6.0
2	l	1191	ASP	6.0
2	j	1187	GLU	5.9
1	C	696	VAL	5.9
2	a	1053	GLY	5.9
1	G	674	THR	5.7
2	j	1062	ILE	5.7
2	k	1066	VAL	5.6
2	g	1205	ALA	5.6
1	C	607	ALA	5.6
2	h	1197	PHE	5.6
2	g	1199	VAL	5.5
2	e	1175	CYS	5.4
1	K	302	GLU	5.3

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Mol	Chain	Res	Type	RSRZ
1	I	319	SER	5.3
1	K	301	SER	5.3
2	o	1109	LEU	5.3
2	c	1059	TRP	5.2
2	j	1069	LEU	5.2
1	I	626	GLY	5.2
2	j	1183	GLN	5.1
2	j	1177	GLY	5.1
2	j	1066	VAL	5.1
2	h	1053	GLY	5.1
2	g	1102	ILE	5.1
2	j	1189	ILE	5.0
1	E	322	ALA	5.0
1	J	688	TYR	5.0
2	k	1147	THR	4.9
1	L	424	GLN	4.9
1	C	658	ASP	4.9
2	l	1178	VAL	4.9
2	o	1205	ALA	4.8
1	K	317	GLY	4.8
2	j	1178	VAL	4.8
2	c	1197	PHE	4.7
1	C	681	TYR	4.7
2	l	1199	VAL	4.7
2	l	1202	GLY	4.6
2	l	1038	SER	4.6
2	l	1147	THR	4.5
2	l	1205	ALA	4.5
2	l	1064	ASN	4.5
2	m	1055	VAL	4.5
1	J	322	ALA	4.5
1	K	696	VAL	4.5
1	L	208	SER	4.5
1	M	312	SER	4.5
1	A	349	THR	4.4
1	A	317	GLY	4.4
2	c	1199	VAL	4.4
1	C	644	VAL	4.4
2	c	1209	ILE	4.4
2	h	1043	PHE	4.4
2	m	1100	GLY	4.4
2	a	1215	ALA	4.4

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Mol	Chain	Res	Type	RSRZ
2	e	1042	ALA	4.4
2	h	1134	ALA	4.4
2	e	1205	ALA	4.3
2	c	1175	CYS	4.3
2	j	1208	GLY	4.3
1	F	706	THR	4.3
2	d	1097	GLY	4.3
1	A	355	ALA	4.3
2	j	1209	ILE	4.3
2	c	1196	VAL	4.3
2	e	1211	ASN	4.3
2	d	1062	ILE	4.3
2	l	1201	GLY	4.3
1	C	402	SER	4.2
1	L	669	ARG	4.2
1	C	606	GLY	4.2
1	J	286	THR	4.2
1	B	313	PHE	4.2
1	E	424	GLN	4.2
1	M	424	GLN	4.2
1	C	210	ILE	4.2
2	g	1177	GLY	4.2
1	B	667	SER	4.2
2	a	1127	ALA	4.1
1	J	720	GLY	4.1
2	h	1100	GLY	4.1
1	J	669	ARG	4.1
2	j	1206	LEU	4.1
2	o	1078	MET	4.1
1	B	596	PHE	4.1
1	G	424	GLN	4.1
1	F	322	ALA	4.1
2	j	1210	ILE	4.1
2	o	1086	SER	4.0
1	C	632	ASP	4.0
1	B	312	SER	4.0
2	d	1058	ASN	4.0
2	k	1059	TRP	4.0
1	H	536	PRO	4.0
1	J	310	HIS	4.0
1	E	688	TYR	3.9
1	B	675	PHE	3.9

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Mol	Chain	Res	Type	RSRZ
1	O	317	GLY	3.9
2	a	1197	PHE	3.9
1	D	319	SER	3.9
1	I	511	SER	3.9
1	H	424	GLN	3.9
1	K	424	GLN	3.9
2	l	1175	CYS	3.9
2	l	1195	GLN	3.9
1	G	698	VAL	3.9
1	I	312	SER	3.9
2	i	1080	LEU	3.8
1	O	314	PHE	3.8
2	h	1172	SER	3.8
1	C	656	ILE	3.8
1	F	319	SER	3.8
1	D	317	GLY	3.8
2	c	1177	GLY	3.8
2	a	1214	LEU	3.8
2	c	1117	GLU	3.8
1	F	424	GLN	3.7
2	l	1149	GLY	3.7
2	a	1216	GLN	3.7
2	k	1062	ILE	3.7
1	M	268	ASN	3.7
1	D	304	HIS	3.7
1	G	644	VAL	3.7
2	g	1095	LEU	3.7
2	o	1110	LYS	3.7
2	a	1183	GLN	3.7
2	e	1055	VAL	3.6
2	l	1055	VAL	3.6
2	m	1179	LEU	3.6
1	F	284	SER	3.6
1	M	305	GLY	3.6
1	C	648	ASP	3.6
2	d	1092	ILE	3.6
2	k	1189	ILE	3.6
2	m	1113	SER	3.6
2	f	1121	HIS	3.6
1	G	308	GLU	3.6
2	l	1123	GLY	3.6
1	M	313	PHE	3.6

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Mol	Chain	Res	Type	RSRZ
2	e	1187	GLU	3.6
1	K	729	LYS	3.6
1	C	661	ASP	3.5
2	c	1086	SER	3.5
1	C	566	LEU	3.5
1	G	690	SER	3.5
1	H	695	LYS	3.5
2	g	1087	SER	3.5
2	m	1039	CYS	3.5
1	M	224	GLU	3.5
1	D	286	THR	3.5
1	I	566	LEU	3.5
2	a	1078	MET	3.5
1	A	551	ASP	3.5
1	L	728	SER	3.5
2	h	1159	ALA	3.5
2	c	1069	LEU	3.5
2	k	1140	SER	3.5
2	j	1112	VAL	3.5
1	B	424	GLN	3.5
1	O	649	THR	3.5
1	L	316	ILE	3.5
1	H	323	GLY	3.4
1	E	536	PRO	3.4
2	d	1199	VAL	3.4
2	l	1059	TRP	3.4
2	a	1123	GLY	3.4
2	f	1080	LEU	3.4
1	D	284	SER	3.4
1	E	674	THR	3.4
1	E	182	GLY	3.4
1	A	257	ALA	3.4
2	d	1131	ILE	3.4
1	O	211	HIS	3.4
2	i	1059	TRP	3.4
1	L	685	LEU	3.4
2	j	1045	LEU	3.4
2	d	1205	ALA	3.4
2	e	1077	GLU	3.4
2	f	1117	GLU	3.4
2	f	1201	GLY	3.4
2	o	1114	PRO	3.4

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Mol	Chain	Res	Type	RSRZ
2	d	1102	ILE	3.4
1	L	679	LYS	3.3
2	f	1119	TYR	3.3
2	b	1097	GLY	3.3
1	O	357	THR	3.3
2	l	1039	CYS	3.3
1	D	684	LYS	3.3
1	L	408	ASN	3.3
1	M	306	ASN	3.3
2	d	1150	LYS	3.3
2	f	1064	ASN	3.3
2	a	1077	GLU	3.3
1	O	540	LEU	3.3
2	c	1102	ILE	3.3
1	E	222	SER	3.3
2	j	1199	VAL	3.3
1	K	541	GLN	3.3
2	l	1177	GLY	3.3
1	J	685	LEU	3.3
1	D	308	GLU	3.3
2	h	1208	GLY	3.3
2	k	1183	GLN	3.3
1	J	309	VAL	3.3
1	I	668	LEU	3.3
1	G	693	ASN	3.3
1	J	547	ILE	3.3
1	C	645	GLU	3.3
2	e	1196	VAL	3.3
1	C	657	ASN	3.2
1	K	314	PHE	3.2
1	D	540	LEU	3.2
2	o	1115	VAL	3.2
2	l	1118	THR	3.2
1	C	697	ASN	3.2
2	a	1182	GLU	3.2
1	C	643	ILE	3.2
1	M	674	THR	3.2
2	j	1182	GLU	3.2
1	I	694	TYR	3.2
2	g	1098	ASP	3.2
2	k	1116	GLY	3.2
1	D	649	THR	3.2

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Mol	Chain	Res	Type	RSRZ
2	a	1045	LEU	3.2
2	j	1186	LEU	3.2
2	j	1197	PHE	3.2
2	a	1175	CYS	3.2
2	l	1179	LEU	3.2
2	b	1087	SER	3.2
1	J	224	GLU	3.2
1	L	720	GLY	3.2
1	M	284	SER	3.2
1	E	618	GLU	3.2
2	l	1182	GLU	3.2
2	h	1211	ASN	3.2
2	k	1114	PRO	3.2
1	L	668	LEU	3.2
2	j	1055	VAL	3.2
1	A	704	GLU	3.1
2	a	1038	SER	3.1
2	o	1118	THR	3.1
1	C	692	PRO	3.1
1	D	688	TYR	3.1
2	l	1065	PHE	3.1
1	B	344	ARG	3.1
2	a	1149	GLY	3.1
2	l	1078	MET	3.1
1	G	428	SER	3.1
2	f	1130	GLN	3.1
2	e	1177	GLY	3.1
1	B	604	ALA	3.1
1	K	308	GLU	3.1
2	i	1117	GLU	3.1
2	h	1114	PRO	3.1
1	H	322	ALA	3.1
2	h	1042	ALA	3.1
2	j	1038	SER	3.1
1	O	424	GLN	3.1
1	B	286	THR	3.1
1	G	631	ILE	3.1
1	K	291	LYS	3.1
2	j	1059	TRP	3.1
1	G	323	GLY	3.1
1	G	688	TYR	3.1
2	c	1098	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
2	d	1180	ASP	3.1
2	o	1211	ASN	3.1
1	L	533	PHE	3.1
2	j	1091	ILE	3.1
2	o	1130	GLN	3.0
1	C	735	GLY	3.0
1	F	286	THR	3.0
1	I	284	SER	3.0
1	O	337	SER	3.0
2	o	1140	SER	3.0
2	l	1040	ARG	3.0
2	c	1121	HIS	3.0
1	K	688	TYR	3.0
1	M	212	GLU	3.0
2	a	1177	GLY	3.0
1	C	424	GLN	3.0
1	B	329	SER	3.0
1	F	608	ASP	3.0
1	A	561	ASN	3.0
1	D	693	ASN	3.0
1	E	422	ASN	3.0
1	L	405	LEU	3.0
1	I	318	GLY	3.0
2	k	1105	GLY	3.0
1	L	180	ASN	3.0
2	c	1097	GLY	3.0
1	C	650	GLU	3.0
2	l	1183	GLN	3.0
2	e	1203	PHE	3.0
1	C	593	ASP	3.0
2	d	1078	MET	3.0
2	j	1103	SER	3.0
1	O	318	GLY	3.0
2	a	1163	ALA	3.0
2	l	1216	GLN	3.0
1	C	659	ARG	3.0
2	l	1062	ILE	3.0
2	j	1109	LEU	3.0
2	l	1050	ASP	3.0
1	A	686	PRO	3.0
2	l	1150	LYS	3.0
1	F	618	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	G	541	GLN	3.0
2	j	1118	THR	2.9
2	b	1177	GLY	2.9
2	o	1044	ASP	2.9
1	C	273	LYS	2.9
1	D	533	PHE	2.9
1	E	604	ALA	2.9
2	i	1089	ALA	2.9
1	A	515	GLU	2.9
1	C	631	ILE	2.9
1	L	701	VAL	2.9
1	O	631	ILE	2.9
2	e	1199	VAL	2.9
2	l	1187	GLU	2.9
1	H	294	SER	2.9
1	G	675	PHE	2.9
2	c	1119	TYR	2.9
1	H	725	LEU	2.9
2	h	1078	MET	2.9
2	l	1196	VAL	2.9
1	O	305	GLY	2.9
2	f	1100	GLY	2.9
2	m	1119	TYR	2.9
1	B	718	THR	2.9
1	G	656	ILE	2.9
2	a	1080	LEU	2.9
2	c	1042	ALA	2.9
1	H	306	ASN	2.9
1	J	318	GLY	2.9
1	I	685	LEU	2.9
2	f	1095	LEU	2.9
1	C	524	LYS	2.9
1	J	551	ASP	2.9
2	h	1160	GLU	2.9
1	K	630	ASN	2.9
2	e	1124	LEU	2.9
2	m	1189	ILE	2.8
1	G	417	ALA	2.8
2	o	1134	ALA	2.8
1	A	357	THR	2.8
1	K	728	SER	2.8
2	k	1139	THR	2.8

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Mol	Chain	Res	Type	RSRZ
1	O	541	GLN	2.8
1	G	696	VAL	2.8
2	f	1199	VAL	2.8
1	F	688	TYR	2.8
2	a	1042	ALA	2.8
1	H	286	THR	2.8
2	a	1172	SER	2.8
2	k	1109	LEU	2.8
1	D	424	GLN	2.8
1	C	604	ALA	2.8
1	L	554	PHE	2.8
1	H	667	SER	2.8
1	J	717	SER	2.8
1	I	305	GLY	2.8
1	K	577	VAL	2.8
2	c	1162	GLU	2.8
2	j	1132	GLN	2.8
1	K	709	ASN	2.8
1	H	514	LEU	2.8
2	e	1151	LEU	2.8
2	g	1151	LEU	2.8
1	F	698	VAL	2.8
2	e	1091	ILE	2.8
1	M	329	SER	2.8
1	O	302	GLU	2.8
2	k	1177	GLY	2.8
1	J	695	LYS	2.8
2	i	1110	LYS	2.8
2	l	1159	ALA	2.8
1	O	602	ASN	2.8
2	j	1135	GLY	2.8
1	E	212	GLU	2.8
1	J	348	GLU	2.8
1	J	667	SER	2.8
1	C	608	ASP	2.8
1	I	307	ALA	2.8
1	O	315	ASP	2.8
2	l	1198	PRO	2.8
2	a	1211	ASN	2.8
1	B	669	ARG	2.8
1	K	600	ARG	2.8
1	C	717	SER	2.8

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Mol	Chain	Res	Type	RSRZ
1	K	694	TYR	2.8
2	a	1147	THR	2.8
2	c	1113	SER	2.8
2	c	1147	THR	2.8
2	c	1198	PRO	2.8
1	A	602	ASN	2.7
1	O	669	ARG	2.7
2	k	1115	VAL	2.7
1	O	653	LYS	2.7
1	G	540	LEU	2.7
2	i	1147	THR	2.7
1	C	611	VAL	2.7
1	K	306	ASN	2.7
1	K	672	GLY	2.7
2	i	1095	LEU	2.7
1	O	358	ALA	2.7
1	K	319	SER	2.7
1	F	617	ARG	2.7
2	l	1095	LEU	2.7
2	k	1175	CYS	2.7
2	c	1185	GLN	2.7
2	f	1183	GLN	2.7
1	C	228	THR	2.7
1	F	649	THR	2.7
1	C	666	SER	2.7
2	l	1045	LEU	2.7
2	l	1126	LEU	2.7
1	C	422	ASN	2.7
1	K	328	ASN	2.7
1	G	322	ALA	2.7
1	K	669	ARG	2.7
1	L	605	VAL	2.7
2	c	1155	VAL	2.7
2	o	1087	SER	2.7
1	G	608	ASP	2.7
1	E	537	ASN	2.7
2	j	1065	PHE	2.7
2	j	1121	HIS	2.7
1	A	302	GLU	2.7
1	D	654	GLU	2.7
1	J	285	GLN	2.7
1	K	309	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
2	j	1196	VAL	2.7
2	k	1055	VAL	2.7
1	H	649	THR	2.7
2	j	1113	SER	2.7
2	k	1172	SER	2.7
1	E	715	ASP	2.7
1	A	322	ALA	2.7
1	K	697	ASN	2.7
2	k	1209	ILE	2.7
1	L	308	GLU	2.7
2	c	1096	THR	2.7
2	o	1096	THR	2.7
1	D	428	SER	2.7
2	m	1149	GLY	2.7
2	d	1042	ALA	2.6
2	j	1134	ALA	2.6
1	C	605	VAL	2.6
2	a	1196	VAL	2.6
2	c	1178	VAL	2.6
2	j	1114	PRO	2.6
1	C	654	GLU	2.6
2	k	1117	GLU	2.6
1	H	428	SER	2.6
1	D	577	VAL	2.6
1	M	223	PRO	2.6
1	I	693	ASN	2.6
1	J	561	ASN	2.6
1	K	618	GLU	2.6
1	M	317	GLY	2.6
2	k	1149	GLY	2.6
1	F	653	LYS	2.6
1	L	730	LYS	2.6
2	b	1172	SER	2.6
1	H	669	ARG	2.6
1	K	681	TYR	2.6
2	l	1079	ARG	2.6
1	C	682	ASN	2.6
1	I	308	GLU	2.6
1	K	682	ASN	2.6
2	a	1194	GLU	2.6
2	l	1067	GLN	2.6
2	g	1197	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
1	G	316	ILE	2.6
2	e	1062	ILE	2.6
1	I	286	THR	2.6
1	I	716	THR	2.6
1	K	300	THR	2.6
2	g	1096	THR	2.6
2	a	1146	LEU	2.6
2	h	1199	VAL	2.6
1	K	429	SER	2.6
2	o	1141	SER	2.6
2	i	1175	CYS	2.6
1	C	621	ASN	2.6
2	b	1130	GLN	2.6
2	h	1057	ASN	2.6
2	j	1211	ASN	2.6
1	L	695	LYS	2.6
1	O	320	VAL	2.6
2	j	1145	ALA	2.6
2	a	1093	LEU	2.6
2	i	1118	THR	2.6
1	J	402	SER	2.6
2	j	1172	SER	2.6
2	l	1140	SER	2.6
1	B	310	HIS	2.6
2	j	1039	CYS	2.6
2	k	1121	HIS	2.6
1	G	273	LYS	2.6
1	M	328	ASN	2.6
2	j	1128	ASN	2.6
1	A	685	LEU	2.6
1	H	384	VAL	2.6
1	I	498	LEU	2.6
1	M	436	TYR	2.6
1	J	429	SER	2.6
1	E	206	TRP	2.6
1	J	677	ASP	2.6
1	C	224	GLU	2.6
1	G	609	GLU	2.6
2	b	1092	ILE	2.6
1	E	539	ASN	2.6
1	F	537	ASN	2.6
1	G	607	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
2	i	1199	VAL	2.6
2	l	1115	VAL	2.6
1	E	681	TYR	2.6
1	C	622	SER	2.5
2	d	1172	SER	2.5
2	l	1189	ILE	2.5
2	o	1095	LEU	2.5
1	G	470	ARG	2.5
2	h	1130	GLN	2.5
2	i	1190	ALA	2.5
2	l	1218	CYS	2.5
1	J	682	ASN	2.5
1	M	292	ASN	2.5
1	O	537	ASN	2.5
2	h	1128	ASN	2.5
1	A	729	LYS	2.5
1	C	728	SER	2.5
1	K	316	ILE	2.5
2	e	1186	LEU	2.5
1	K	626	GLY	2.5
2	g	1116	GLY	2.5
1	B	607	ALA	2.5
1	D	669	ARG	2.5
2	k	1178	VAL	2.5
1	H	485	GLN	2.5
2	d	1134	ALA	2.5
2	i	1078	MET	2.5
1	G	601	ASN	2.5
1	O	697	ASN	2.5
2	g	1051	LYS	2.5
2	j	1082	PHE	2.5
2	g	1062	ILE	2.5
1	C	698	VAL	2.5
1	I	701	VAL	2.5
1	J	377	VAL	2.5
2	d	1038	SER	2.5
2	g	1196	VAL	2.5
2	h	1196	VAL	2.5
2	i	1172	SER	2.5
2	k	1113	SER	2.5
2	g	1092	ILE	2.5
2	c	1118	THR	2.5

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Mol	Chain	Res	Type	RSRZ
2	h	1176	VAL	2.5
2	i	1097	GLY	2.5
1	G	311	ALA	2.5
1	M	311	ALA	2.5
1	O	319	SER	2.5
2	k	1086	SER	2.5
1	A	608	ASP	2.5
2	o	1133	LYS	2.5
1	A	415	ASN	2.5
1	G	621	ASN	2.5
1	K	644	VAL	2.5
2	a	1055	VAL	2.5
1	L	615	ALA	2.5
1	M	322	ALA	2.5
2	a	1139	THR	2.5
2	l	1190	ALA	2.5
1	A	667	SER	2.5
1	C	613	LYS	2.5
1	L	704	GLU	2.5
2	c	1132	GLN	2.5
2	j	1085	PHE	2.5
2	b	1102	ILE	2.5
2	c	1114	PRO	2.5
1	D	361	ASN	2.5
1	D	657	ASN	2.5
1	H	537	ASN	2.5
1	D	616	HIS	2.5
2	l	1070	ALA	2.5
1	D	245	LYS	2.5
1	B	717	SER	2.5
1	B	285	GLN	2.5
1	C	625	GLU	2.5
1	E	565	GLN	2.5
2	g	1206	LEU	2.5
1	G	418	PRO	2.5
1	O	677	ASP	2.5
1	L	323	GLY	2.5
1	H	607	ALA	2.5
1	G	314	PHE	2.4
1	G	629	LEU	2.4
1	I	557	GLN	2.4
1	I	618	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
2	j	1120	ILE	2.4
1	M	551	ASP	2.4
2	o	1196	VAL	2.4
1	O	229	ALA	2.4
2	b	1056	ALA	2.4
1	D	211	HIS	2.4
2	d	1109	LEU	2.4
1	D	228	THR	2.4
1	F	642	TYR	2.4
1	H	688	TYR	2.4
1	L	286	THR	2.4
2	l	1096	THR	2.4
1	M	208	SER	2.4
2	b	1140	SER	2.4
2	d	1140	SER	2.4
1	G	648	ASP	2.4
1	A	518	LYS	2.4
1	O	695	LYS	2.4
2	a	1202	GLY	2.4
1	I	187	LEU	2.4
1	K	657	ASN	2.4
1	D	312	SER	2.4
1	F	644	VAL	2.4
1	H	647	GLU	2.4
1	K	549	GLU	2.4
2	o	1116	GLY	2.4
2	i	1151	LEU	2.4
2	j	1151	LEU	2.4
1	A	324	PHE	2.4
1	J	246	ASN	2.4
2	o	1199	VAL	2.4
1	C	302	GLU	2.4
1	E	654	GLU	2.4
1	L	348	GLU	2.4
1	L	541	GLN	2.4
2	c	1187	GLU	2.4
1	A	428	SER	2.4
2	k	1166	SER	2.4
1	I	735	GLY	2.4
2	e	1100	GLY	2.4
2	a	1056	ALA	2.4
1	D	570	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	698	VAL	2.4
1	K	348	GLU	2.4
2	a	1117	GLU	2.4
1	B	606	GLY	2.4
1	O	417	ALA	2.4
2	a	1205	ALA	2.4
2	k	1039	CYS	2.4
2	a	1060	ILE	2.4
2	e	1072	ARG	2.4
2	i	1196	VAL	2.4
2	a	1195	GLN	2.4
2	b	1132	GLN	2.4
2	k	1130	GLN	2.4
2	k	1151	LEU	2.4
1	E	720	GLY	2.4
1	J	305	GLY	2.4
1	H	666	SER	2.4
1	O	284	SER	2.4
2	g	1165	ILE	2.4
1	F	551	ASP	2.4
1	C	694	TYR	2.4
1	M	344	ARG	2.4
2	c	1112	VAL	2.4
2	g	1055	VAL	2.4
1	L	630	ASN	2.4
2	c	1146	LEU	2.4
1	C	720	GLY	2.3
1	J	212	GLU	2.3
1	L	302	GLU	2.3
2	o	1202	GLY	2.3
2	o	1204	GLN	2.3
1	J	624	THR	2.3
1	K	558	THR	2.3
2	c	1090	THR	2.3
2	d	1056	ALA	2.3
2	l	1209	ILE	2.3
2	g	1217	SER	2.3
2	h	1140	SER	2.3
1	C	563	LYS	2.3
1	F	632	ASP	2.3
1	H	653	LYS	2.3
1	M	634	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
2	m	1095	LEU	2.3
2	o	1151	LEU	2.3
1	E	211	HIS	2.3
1	H	499	ASN	2.3
1	C	618	GLU	2.3
1	I	549	GLU	2.3
2	h	1065	PHE	2.3
2	l	1127	ALA	2.3
2	m	1089	ALA	2.3
1	O	430	THR	2.3
2	g	1118	THR	2.3
2	j	1147	THR	2.3
2	a	1199	VAL	2.3
2	c	1168	SER	2.3
2	m	1110	LYS	2.3
1	A	462	TYR	2.3
1	J	681	TYR	2.3
2	c	1174	TYR	2.3
1	J	683	ASP	2.3
1	L	379	PRO	2.3
1	L	510	PRO	2.3
2	c	1105	GLY	2.3
2	j	1143	ILE	2.3
1	I	224	GLU	2.3
2	a	1187	GLU	2.3
2	k	1190	ALA	2.3
2	l	1160	GLU	2.3
2	l	1185	GLN	2.3
2	a	1049	LEU	2.3
2	k	1069	LEU	2.3
1	A	314	PHE	2.3
1	C	310	HIS	2.3
1	J	210	ILE	2.3
2	a	1213	ILE	2.3
2	o	1209	ILE	2.3
2	k	1132	GLN	2.3
2	o	1042	ALA	2.3
1	B	306	ASN	2.3
1	K	601	ASN	2.3
1	J	644	VAL	2.3
1	L	722	LYS	2.3
1	O	220	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
2	b	1176	VAL	2.3
1	C	649	THR	2.3
2	c	1109	LEU	2.3
1	H	319	SER	2.3
1	O	259	TYR	2.3
2	k	1087	SER	2.3
2	o	1120	ILE	2.3
1	G	283	ASP	2.3
2	h	1097	GLY	2.3
1	L	322	ALA	2.3
2	f	1042	ALA	2.3
2	h	1125	LYS	2.3
1	A	709	ASN	2.3
1	C	470	ARG	2.3
1	D	268	ASN	2.3
1	D	306	ASN	2.3
1	I	600	ARG	2.3
1	O	659	ARG	2.3
2	f	1126	LEU	2.3
2	i	1040	ARG	2.3
2	i	1077	GLU	2.3
1	K	570	ASN	2.3
2	k	1146	LEU	2.3
1	M	624	THR	2.3
2	h	1087	SER	2.3
1	M	324	PHE	2.3
1	K	708	ILE	2.3
2	f	1076	PRO	2.3
1	M	304	HIS	2.3
1	O	238	LYS	2.3
1	A	668	LEU	2.3
1	G	309	VAL	2.3
1	K	698	VAL	2.3
1	O	512	ASP	2.3
2	b	1080	LEU	2.3
2	c	1066	VAL	2.3
2	d	1045	LEU	2.3
2	d	1196	VAL	2.3
1	C	669	ARG	2.3
1	K	654	GLU	2.3
2	a	1130	GLN	2.3
2	j	1204	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	H	693	ASN	2.3
1	G	324	PHE	2.3
1	L	314	PHE	2.3
2	c	1065	PHE	2.3
2	c	1082	PHE	2.3
2	o	1043	PHE	2.3
1	C	301	SER	2.3
1	D	610	SER	2.3
1	F	402	SER	2.3
1	I	429	SER	2.3
1	K	666	SER	2.3
1	A	197	LYS	2.3
1	B	582	LYS	2.3
2	j	1105	GLY	2.3
2	m	1150	LYS	2.3
1	H	627	LEU	2.3
1	L	480	VAL	2.3
1	H	658	ASP	2.3
1	I	683	ASP	2.3
1	A	398	GLU	2.2
1	I	556	GLN	2.3
2	h	1129	GLU	2.2
2	j	1068	GLN	2.3
2	k	1107	GLU	2.2
1	F	422	ASN	2.2
1	M	705	ASN	2.2
1	O	693	ASN	2.2
1	G	624	THR	2.2
2	h	1131	ILE	2.2
1	E	428	SER	2.2
1	H	444	LYS	2.2
1	L	284	SER	2.2
1	O	327	SER	2.2
2	h	1198	PRO	2.2
2	i	1053	GLY	2.2
2	j	1150	LYS	2.2
2	a	1178	VAL	2.2
2	c	1095	LEU	2.2
2	f	1151	LEU	2.2
1	F	549	GLU	2.2
1	G	654	GLU	2.2
1	M	712	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	621	ASN	2.2
1	E	705	ASN	2.2
1	J	539	ASN	2.2
1	L	694	TYR	2.2
2	m	1060	ILE	2.2
1	K	228	THR	2.2
1	L	300	THR	2.2
1	A	536	PRO	2.2
1	H	305	GLY	2.2
1	O	685	LEU	2.2
2	c	1176	VAL	2.2
2	e	1208	GLY	2.2
2	o	1208	GLY	2.2
1	B	284	SER	2.2
1	D	325	SER	2.2
1	H	208	SER	2.2
1	H	717	SER	2.2
1	J	178	ARG	2.2
2	b	1141	SER	2.2
2	m	1038	SER	2.2
1	M	398	GLU	2.2
1	O	608	ASP	2.2
2	b	1067	GLN	2.2
2	o	1107	GLU	2.2
1	H	374	ILE	2.2
2	a	1046	TYR	2.2
2	a	1174	TYR	2.2
1	K	414	LYS	2.2
2	g	1059	TRP	2.2
1	A	198	ASN	2.2
1	G	630	ASN	2.2
1	K	180	ASN	2.2
2	c	1214	LEU	2.2
2	a	1097	GLY	2.2
2	j	1090	THR	2.2
2	j	1198	PRO	2.2
1	C	428	SER	2.2
2	b	1218	CYS	2.2
2	l	1192	SER	2.2
2	b	1082	PHE	2.2
1	F	212	GLU	2.2
2	c	1062	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
2	j	1165	ILE	2.2
2	o	1131	ILE	2.2
1	I	653	LYS	2.2
2	d	1059	TRP	2.2
2	k	1169	LEU	2.2
1	H	264	VAL	2.2
1	C	372	ALA	2.2
1	I	499	ASN	2.2
1	K	735	GLY	2.2
1	L	621	ASN	2.2
2	f	1116	GLY	2.2
2	i	1112	VAL	2.2
2	k	1176	VAL	2.2
2	f	1163	ALA	2.2
2	m	1218	CYS	2.2
1	I	643	ILE	2.2
1	K	723	LYS	2.2
1	A	212	GLU	2.2
1	B	542	TYR	2.2
1	B	681	TYR	2.2
1	M	352	LEU	2.2
1	J	655	VAL	2.2
1	O	698	VAL	2.2
2	g	1112	VAL	2.2
2	o	1173	VAL	2.2
1	E	184	PRO	2.2
2	h	1056	ALA	2.2
2	m	1042	ALA	2.2
1	I	422	ASN	2.2
1	E	286	THR	2.2
1	L	624	THR	2.2
2	b	1147	THR	2.2
1	O	321	SER	2.2
2	a	1075	SER	2.2
1	H	722	LYS	2.2
2	j	1218	CYS	2.2
2	e	1183	GLN	2.2
1	F	654	GLU	2.2
1	A	226	TRP	2.2
1	K	648	ASP	2.2
2	d	1148	ASP	2.2
1	B	318	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	E	305	GLY	2.2
2	e	1202	GLY	2.2
2	l	1208	GLY	2.2
1	B	657	ASN	2.2
1	D	422	ASN	2.2
1	I	657	ASN	2.2
1	O	682	ASN	2.2
1	D	316	ILE	2.2
1	G	228	THR	2.2
1	G	716	THR	2.2
1	C	725	LEU	2.2
1	M	586	LYS	2.2
2	b	1096	THR	2.2
2	k	1144	ILE	2.2
2	c	1169	LEU	2.2
2	i	1214	LEU	2.2
2	k	1103	SER	2.2
1	F	669	ARG	2.2
2	j	1061	GLU	2.2
1	A	370	GLY	2.1
1	D	226	TRP	2.2
1	B	335	ASP	2.1
1	F	457	GLY	2.1
1	F	538	GLY	2.1
1	J	735	GLY	2.1
1	C	254	PRO	2.1
1	K	512	ASP	2.1
1	O	311	ALA	2.1
1	A	675	PHE	2.1
1	A	705	ASN	2.1
1	C	363	ASN	2.1
1	F	693	ASN	2.1
1	J	415	ASN	2.1
1	L	620	ILE	2.1
1	O	444	LYS	2.1
2	c	1051	LYS	2.1
2	i	1057	ASN	2.1
1	G	319	SER	2.1
1	H	402	SER	2.1
1	I	303	VAL	2.1
2	b	1055	VAL	2.1
1	F	659	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
2	b	1119	TYR	2.1
2	k	1067	GLN	2.1
1	D	224	GLU	2.1
2	f	1107	GLU	2.1
2	l	1071	GLU	2.1
1	A	526	ALA	2.1
1	F	283	ASP	2.1
1	H	648	ASP	2.1
1	L	677	ASP	2.1
1	A	459	ILE	2.1
2	e	1047	PHE	2.1
2	f	1092	ILE	2.1
2	g	1065	PHE	2.1
2	k	1197	PHE	2.1
1	B	415	ASN	2.1
1	M	539	ASN	2.1
2	g	1147	THR	2.1
2	e	1066	VAL	2.1
2	g	1115	VAL	2.1
1	D	359	ARG	2.1
1	I	622	SER	2.1
1	L	667	SER	2.1
2	g	1099	ARG	2.1
1	H	317	GLY	2.1
1	J	626	GLY	2.1
2	e	1071	GLU	2.1
1	L	206	TRP	2.1
1	D	414	LYS	2.1
1	E	540	LEU	2.1
1	F	183	ILE	2.1
1	G	707	ILE	2.1
1	K	652	LEU	2.1
2	g	1045	LEU	2.1
2	i	1218	CYS	2.1
1	A	715	ASP	2.1
1	M	661	ASP	2.1
2	a	1050	ASP	2.1
1	B	480	VAL	2.1
1	C	499	ASN	2.1
1	L	588	ASN	2.1
2	d	1055	VAL	2.1
1	C	286	THR	2.1

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Mol	Chain	Res	Type	RSRZ
1	K	430	THR	2.1
1	M	402	SER	2.1
2	a	1204	GLN	2.1
2	l	1068	GLN	2.1
1	G	549	GLU	2.1
1	I	652	LEU	2.1
2	c	1133	LYS	2.1
2	g	1179	LEU	2.1
2	i	1126	LEU	2.1
2	j	1047	PHE	2.1
1	D	683	ASP	2.1
1	H	551	ASP	2.1
2	c	1218	CYS	2.1
1	D	611	VAL	2.1
2	l	1066	VAL	2.1
1	E	630	ASN	2.1
1	F	228	THR	2.1
1	L	411	TYR	2.1
1	F	444	LYS	2.1
1	G	685	LEU	2.1
2	j	1171	ALA	2.1
2	o	1097	GLY	2.1
1	H	549	GLU	2.1
1	L	631	ILE	2.1
1	M	316	ILE	2.1
2	a	1065	PHE	2.1
1	I	698	VAL	2.1
1	L	551	ASP	2.1
2	j	1180	ASP	2.1
1	A	566	LEU	2.1
1	H	209	ASN	2.1
1	J	476	ASN	2.1
1	K	318	GLY	2.1
2	g	1170	GLY	2.1
1	E	210	ILE	2.1
1	F	726	ILE	2.1
2	a	1068	GLN	2.1
2	g	1060	ILE	2.1
1	C	710	PRO	2.1
1	F	308	GLU	2.1
1	J	549	GLU	2.1
1	O	568	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	D	480	VAL	2.1
2	f	1041	ARG	2.1
2	j	1167	ARG	2.1
1	H	715	ASP	2.1
2	c	1152	ASP	2.1
1	A	273	LYS	2.1
1	A	681	TYR	2.1
1	B	528	LYS	2.1
1	C	528	LYS	2.1
1	I	524	LYS	2.1
1	L	725	LEU	2.1
1	M	395	LYS	2.1
1	M	653	LYS	2.1
2	g	1069	LEU	2.1
1	A	664	ASN	2.1
1	B	493	PHE	2.1
1	C	709	ASN	2.1
1	D	588	ASN	2.1
1	G	635	ILE	2.1
1	H	509	ASN	2.1
1	I	630	ASN	2.1
1	I	689	ILE	2.1
1	J	300	THR	2.1
1	K	422	ASN	2.1
1	K	656	ILE	2.1
2	c	1131	ILE	2.1
2	j	1216	GLN	2.1
1	B	325	SER	2.1
1	C	190	GLU	2.1
2	a	1071	GLU	2.1
2	a	1129	GLU	2.1
2	o	1059	TRP	2.1
1	G	312	SER	2.1
2	g	1086	SER	2.1
2	h	1038	SER	2.1
2	j	1212	SER	2.1
1	I	384	VAL	2.1
2	a	1040	ARG	2.0
2	o	1167	ARG	2.0
2	l	1186	LEU	2.0
2	o	1150	LYS	2.0
1	G	681	TYR	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	726	ILE	2.0
1	O	607	ALA	2.0
2	i	1144	ILE	2.0
2	o	1082	PHE	2.0
1	J	621	ASN	2.0
1	M	588	ASN	2.0
2	j	1130	GLN	2.0
2	l	1114	PRO	2.0
1	I	515	GLU	2.0
2	k	1122	GLU	2.0
1	F	208	SER	2.0
1	K	337	SER	2.0
2	a	1066	VAL	2.0
2	a	1140	SER	2.0
2	j	1054	SER	2.0
1	K	252	ARG	2.0
1	O	617	ARG	2.0
2	j	1179	LEU	2.0
1	M	631	ILE	2.0
2	a	1082	PHE	2.0
2	o	1119	TYR	2.0
1	A	347	ALA	2.0
1	C	251	ALA	2.0
1	C	634	ASP	2.0
1	D	506	ALA	2.0
2	b	1042	ALA	2.0
2	j	1070	ALA	2.0
2	k	1208	GLY	2.0
1	A	693	ASN	2.0
1	C	268	ASN	2.0
1	G	399	ASN	2.0
1	O	293	THR	2.0
2	k	1090	THR	2.0
2	k	1195	GLN	2.0
2	k	1173	VAL	2.0
2	o	1175	CYS	2.0
1	H	659	ARG	2.0
2	c	1040	ARG	2.0
1	B	290	SER	2.0
1	G	301	SER	2.0
1	O	312	SER	2.0
2	b	1166	SER	2.0

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Mol	Chain	Res	Type	RSRZ
2	j	1102	ILE	2.0
2	j	1142	ILE	2.0
1	I	377	VAL	2.0
1	J	303	VAL	2.0
1	F	237	GLU	2.0
1	F	657	ASN	2.0
1	L	662	MET	2.0
2	i	1204	GLN	2.0
2	l	1061	GLU	2.0
1	K	690	SER	2.0
2	d	1192	SER	2.0
2	m	1192	SER	2.0
1	C	202	PHE	2.0
1	J	493	PHE	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](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	MG	F	738	1/1	0.50	0.31	0,0,0,0	0
4	MG	L	738	1/1	0.89	0.27	0,0,0,0	0
4	MG	B	738	1/1	0.90	0.11	0,0,0,0	0
4	MG	D	738	1/1	0.90	0.09	0,0,0,0	0
4	MG	J	738	1/1	0.91	0.12	0,0,0,0	0
3	CA	G	737	1/1	0.94	0.11	0,0,0,0	0
4	MG	E	738	1/1	0.96	0.15	0,0,0,0	0
3	CA	F	737	1/1	0.96	0.15	0,0,0,0	0
3	CA	F	736	1/1	0.97	0.05	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	CA	A	737	1/1	0.97	0.11	0,0,0,0	0
3	CA	B	737	1/1	0.97	0.17	0,0,0,0	0
3	CA	J	737	1/1	0.97	0.18	0,0,0,0	0
4	MG	G	738	1/1	0.97	0.14	0,0,0,0	0
4	MG	H	738	1/1	0.97	0.12	0,0,0,0	0
3	CA	M	737	1/1	0.97	0.15	0,0,0,0	0
4	MG	A	738	1/1	0.97	0.14	0,0,0,0	0
3	CA	E	737	1/1	0.98	0.18	0,0,0,0	0
3	CA	H	737	1/1	0.98	0.07	0,0,0,0	0
4	MG	I	738	1/1	0.98	0.08	0,0,0,0	0
3	CA	O	737	1/1	0.98	0.07	0,0,0,0	0
3	CA	I	736	1/1	0.98	0.11	0,0,0,0	0
4	MG	M	738	1/1	0.98	0.15	0,0,0,0	0
3	CA	C	737	1/1	0.99	0.10	0,0,0,0	0
3	CA	G	736	1/1	0.99	0.06	0,0,0,0	0
3	CA	D	737	1/1	0.99	0.05	0,0,0,0	0
3	CA	H	736	1/1	0.99	0.06	0,0,0,0	0
4	MG	C	738	1/1	0.99	0.05	0,0,0,0	0
3	CA	E	736	1/1	0.99	0.07	0,0,0,0	0
3	CA	B	736	1/1	0.99	0.05	0,0,0,0	0
3	CA	I	737	1/1	0.99	0.09	0,0,0,0	0
3	CA	J	736	1/1	0.99	0.05	0,0,0,0	0
3	CA	C	736	1/1	0.99	0.06	0,0,0,0	0
3	CA	K	736	1/1	0.99	0.04	0,0,0,0	0
3	CA	K	737	1/1	0.99	0.05	0,0,0,0	0
4	MG	K	738	1/1	0.99	0.12	0,0,0,0	0
3	CA	L	736	1/1	0.99	0.05	0,0,0,0	0
3	CA	L	737	1/1	0.99	0.11	0,0,0,0	0
3	CA	D	736	1/1	1.00	0.05	0,0,0,0	0
3	CA	O	736	1/1	1.00	0.03	0,0,0,0	0
3	CA	A	736	1/1	1.00	0.01	0,0,0,0	0
3	CA	M	736	1/1	1.00	0.02	0,0,0,0	0
4	MG	O	738	1/1	1.00	0.09	0,0,0,0	0

6.5 Other polymers ⓘ

There are no such residues in this entry.