



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 10:37 PM GMT

PDB ID : 1TZN
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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

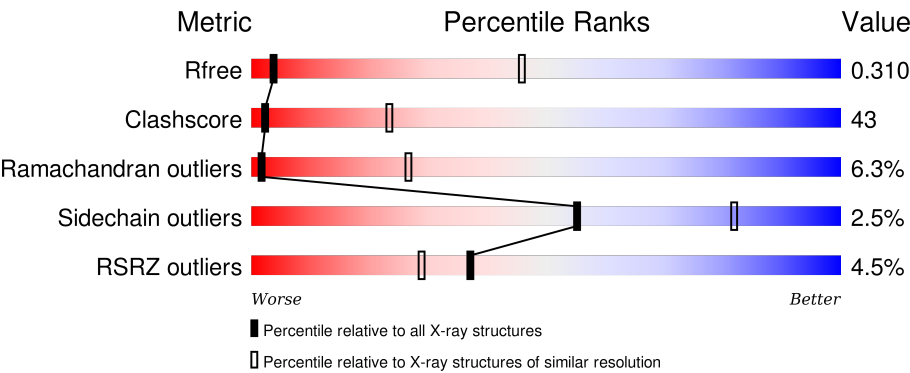
MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

1 Overall quality at a glance i

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

The reported resolution of this entry is 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}	91344	1059 (5.00-3.60)
Clashscore	102246	1166 (5.00-3.60)
Ramachandran outliers	100387	1106 (5.00-3.60)
Sidechain outliers	100360	1089 (5.00-3.60)
RSRZ outliers	91569	1062 (5.00-3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	<div><div>2%</div><div><div></div><div></div><div></div><div></div></div><div>38%54%6%•</div></div>
1	B	562	<div><div>4%</div><div><div></div><div></div><div></div><div></div></div><div>38%55%••</div></div>
1	C	562	<div><div>4%</div><div><div></div><div></div><div></div><div></div></div><div>38%55%5%•</div></div>
1	D	562	<div><div>%</div><div><div></div><div></div><div></div><div></div></div><div>38%55%5%•</div></div>
1	E	562	<div><div>2%</div><div><div></div><div></div><div></div><div></div></div><div>38%56%5%•</div></div>

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Mol	Chain	Length	Quality of chain
1	F	562	
1	G	562	
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 (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	G	2	Total	Ca	0	0
			2	2		
3	J	2	Total	Ca	0	0
			2	2		
3	D	2	Total	Ca	0	0
			2	2		
3	K	2	Total	Ca	0	0
			2	2		
3	E	2	Total	Ca	0	0
			2	2		
3	H	2	Total	Ca	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total 2	Ca 2	0	0
3	I	2	Total 2	Ca 2	0	0
3	C	2	Total 2	Ca 2	0	0
3	A	2	Total 2	Ca 2	0	0
3	O	2	Total 2	Ca 2	0	0
3	L	2	Total 2	Ca 2	0	0
3	F	2	Total 2	Ca 2	0	0
3	M	2	Total 2	Ca 2	0	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

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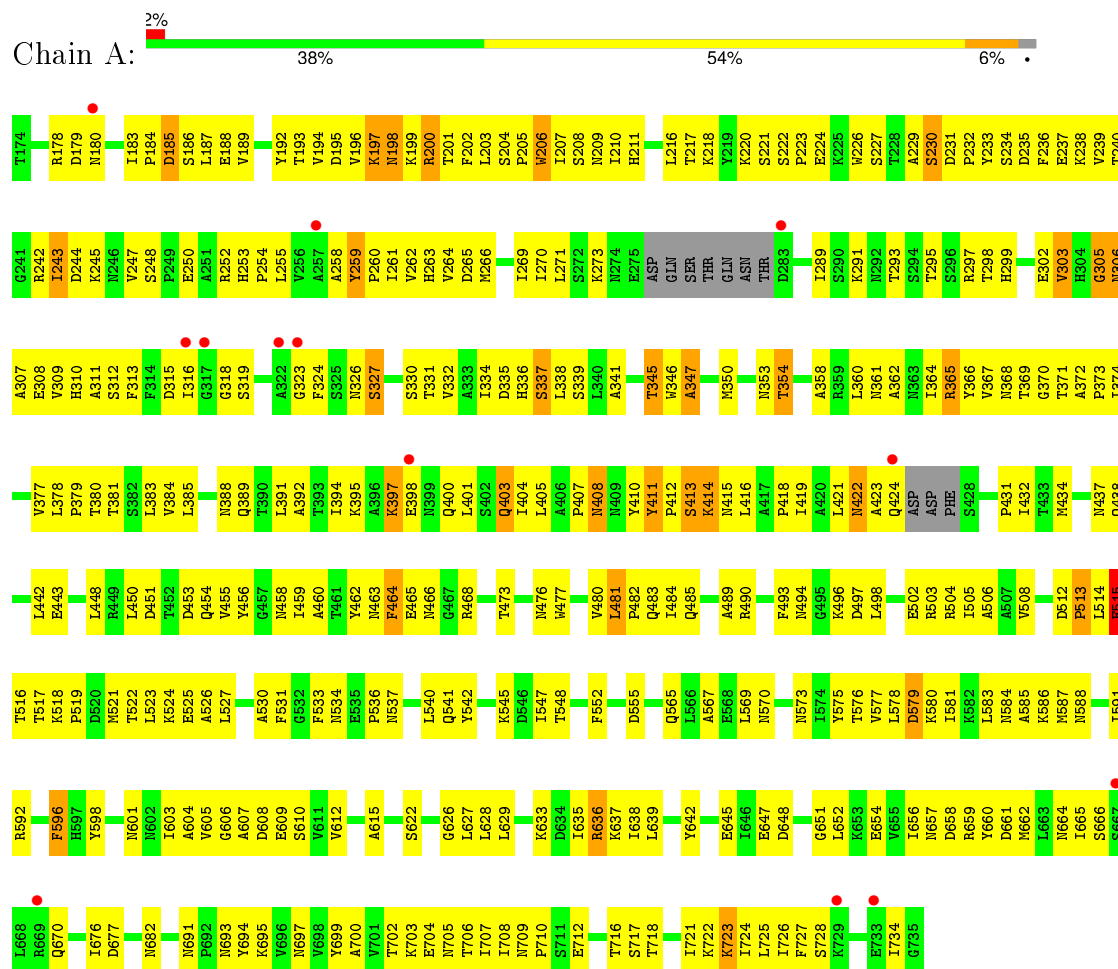
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	1	Total 1	Mg 1	0	0
4	F	1	Total 1	Mg 1	0	0
4	M	1	Total 1	Mg 1	0	0

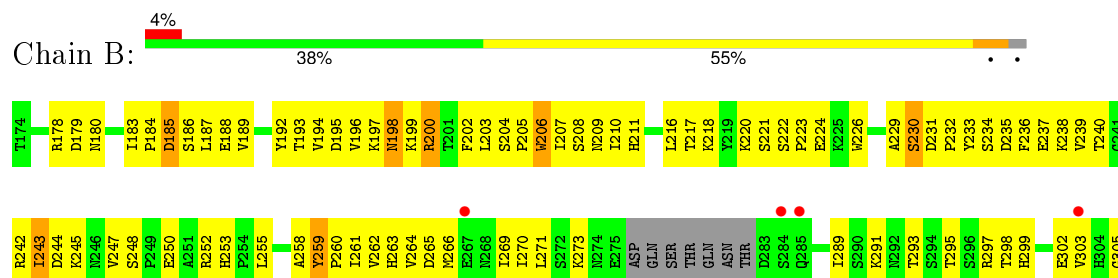
3 Residue-property plots

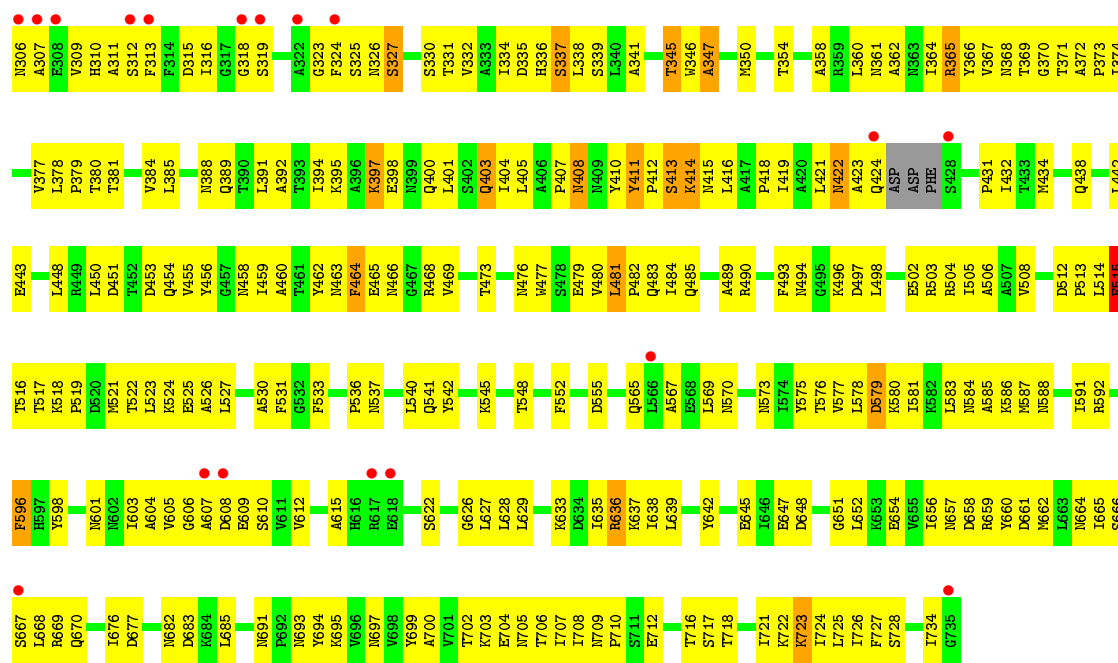
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($\text{RSRZ} > 2$). 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

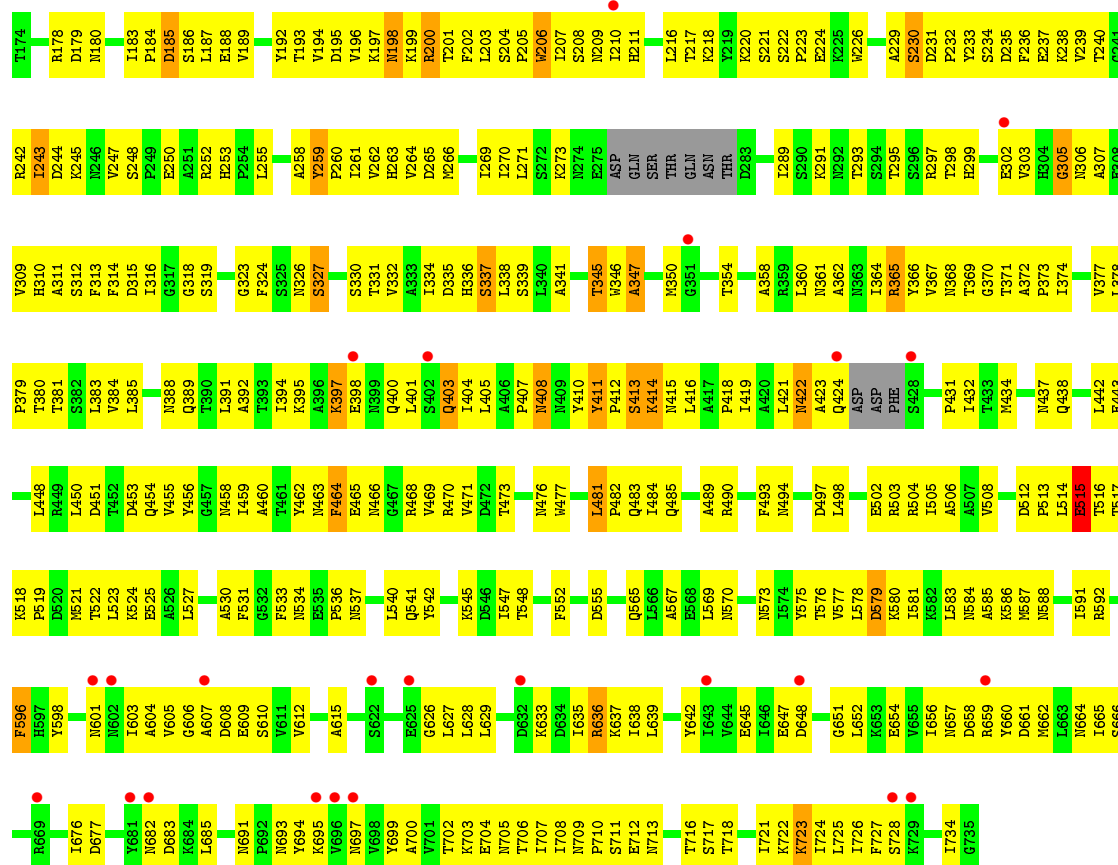


- Molecule 1: Protective antigen

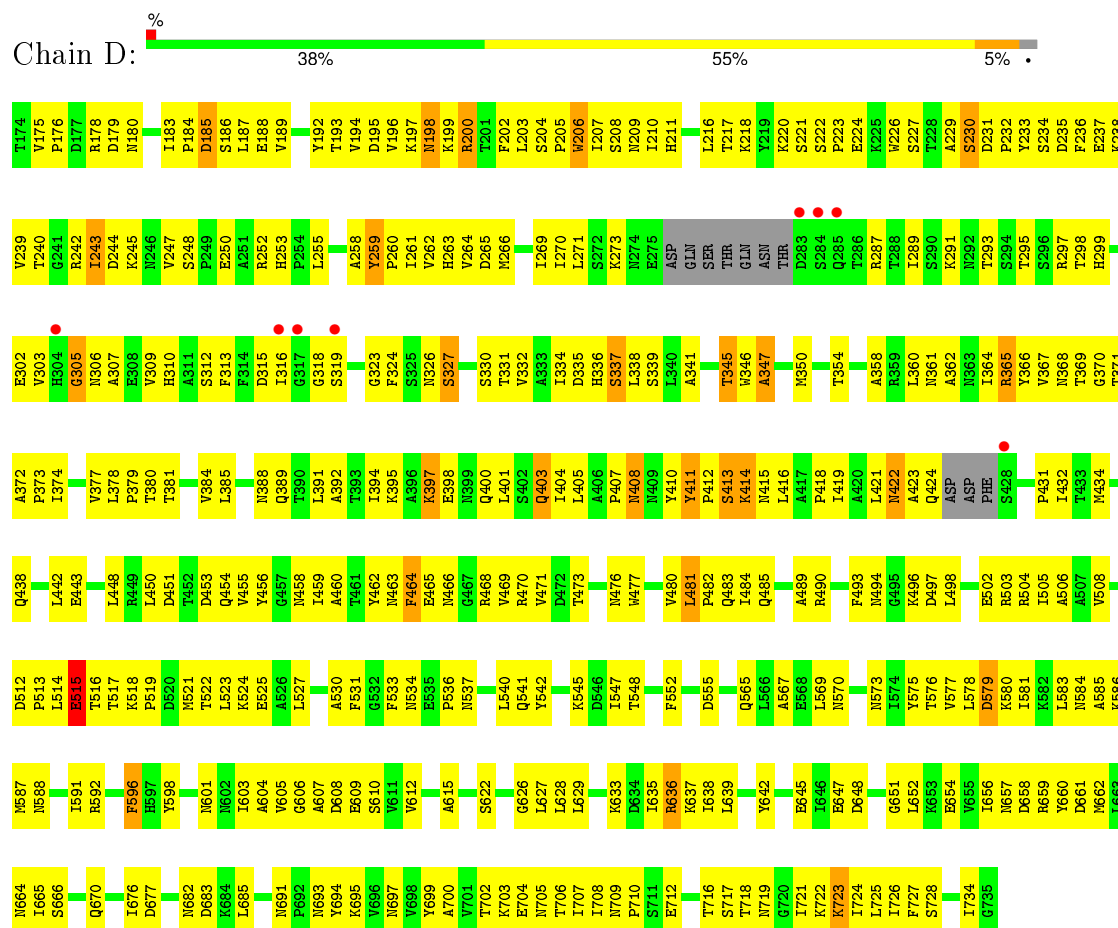




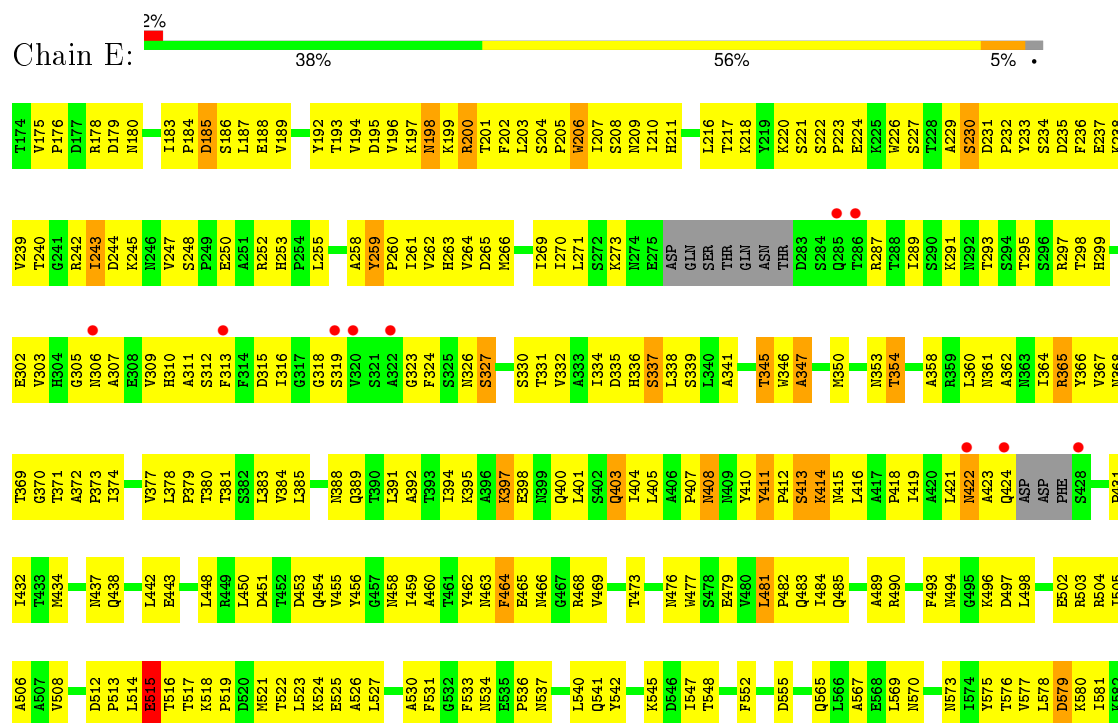
• Molecule 1: Protective antigen

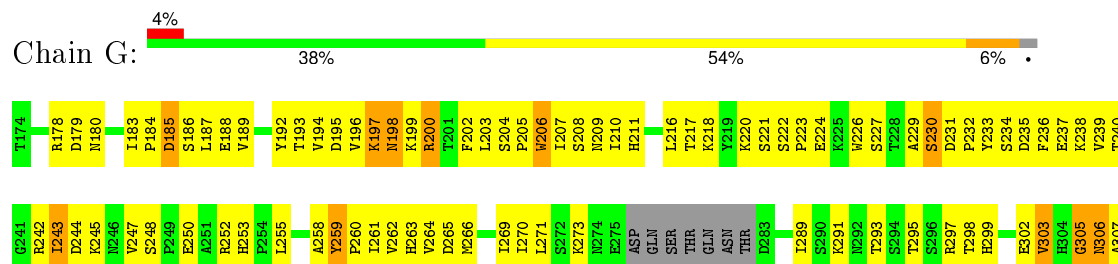


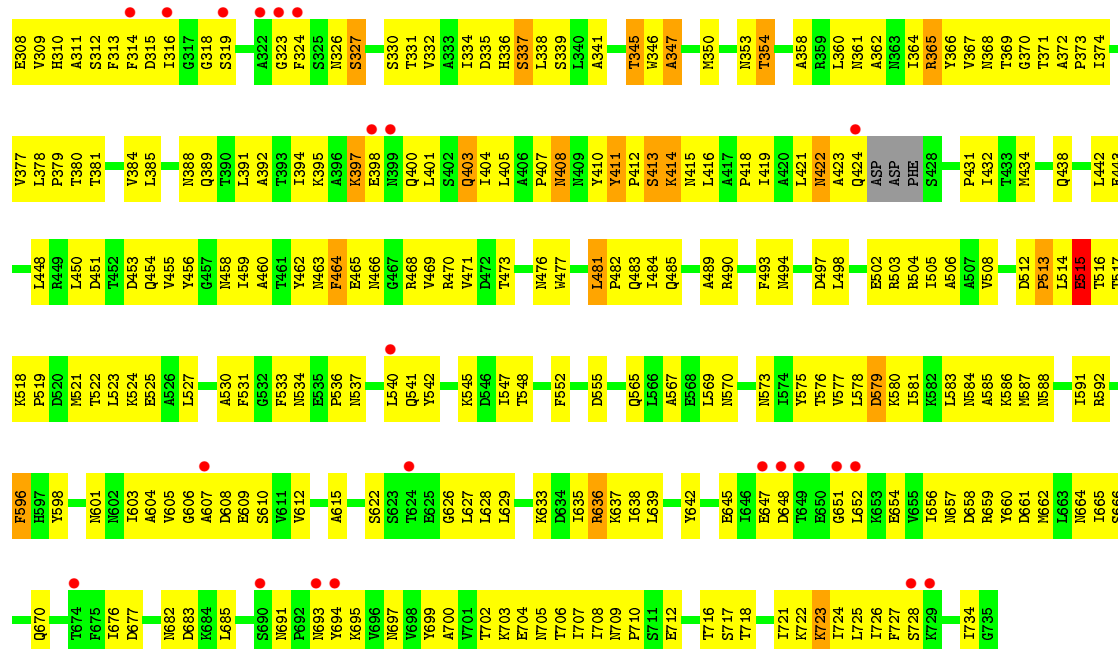
• Molecule 1: Protective antigen



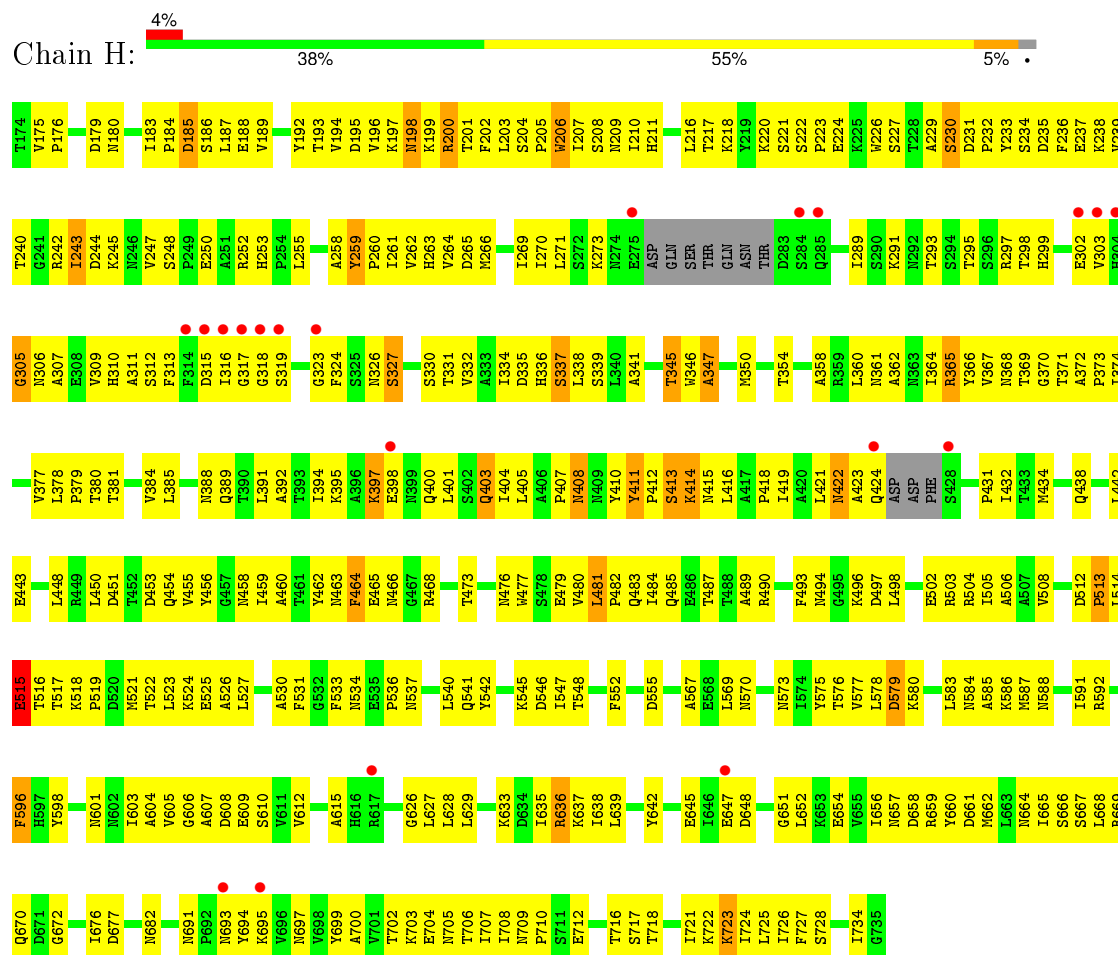
• Molecule 1: Protective antigen



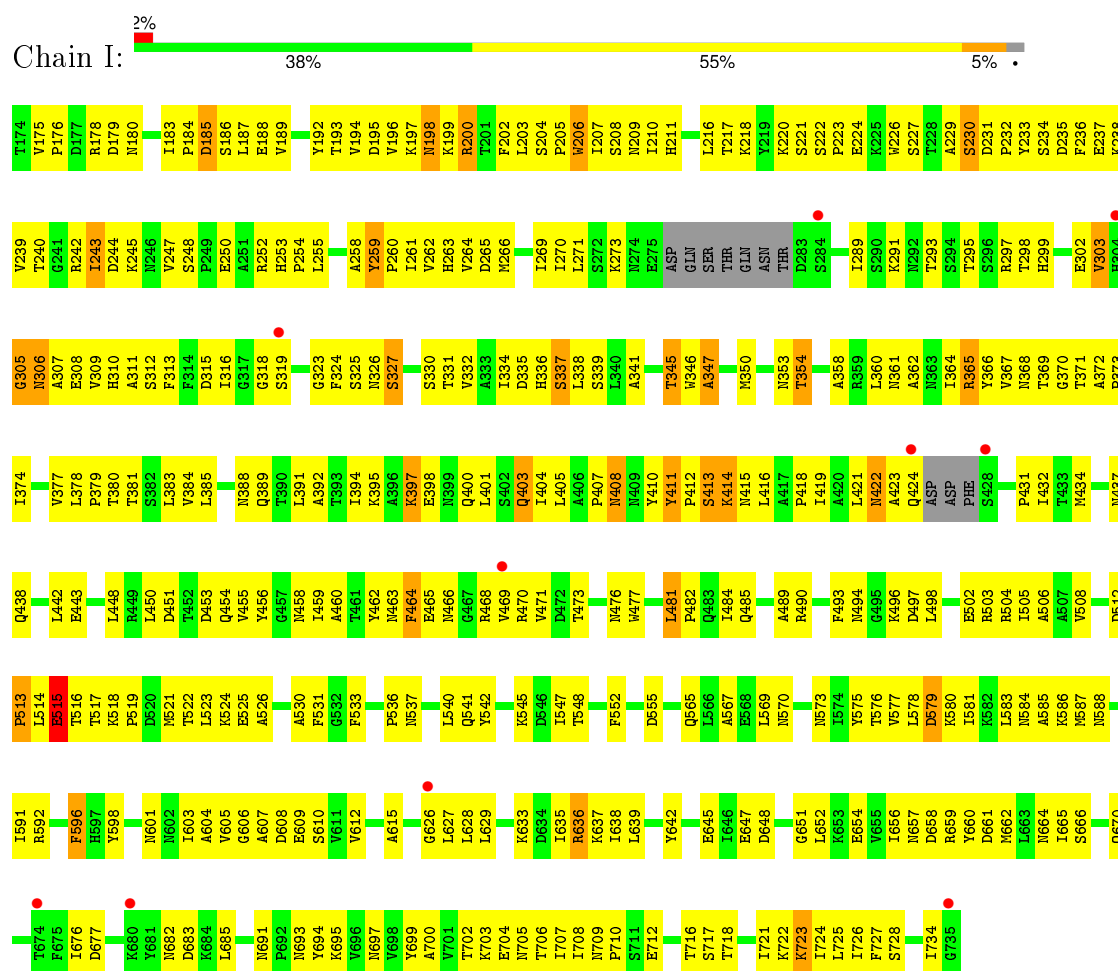




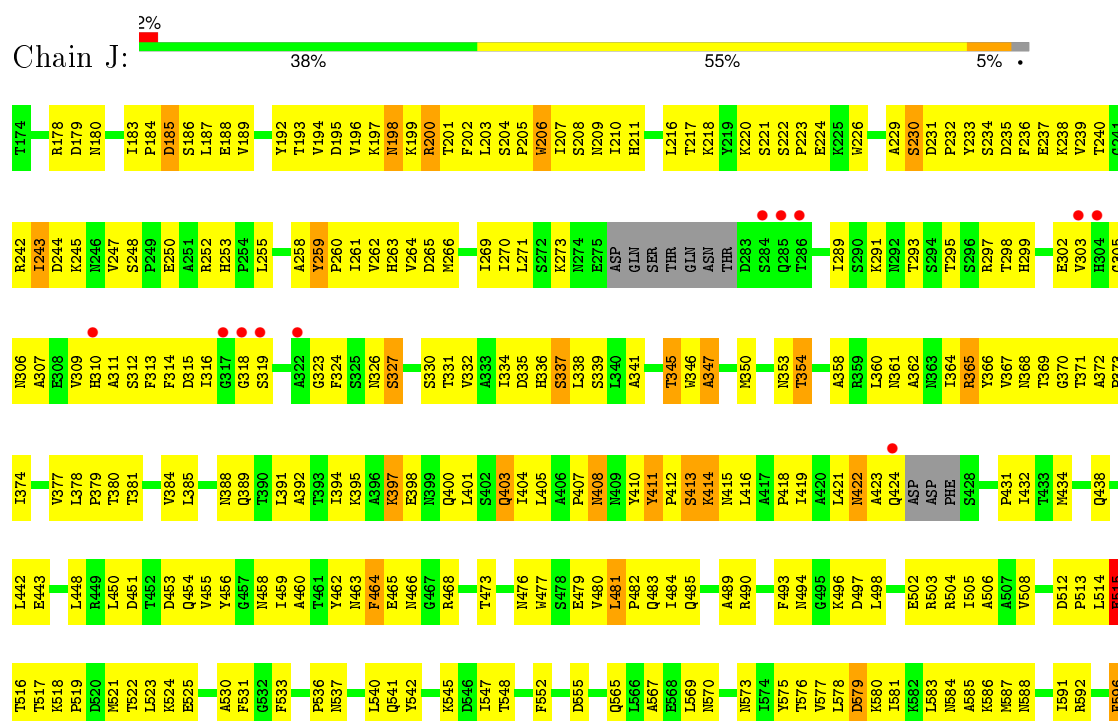
• Molecule 1: Protective antigen

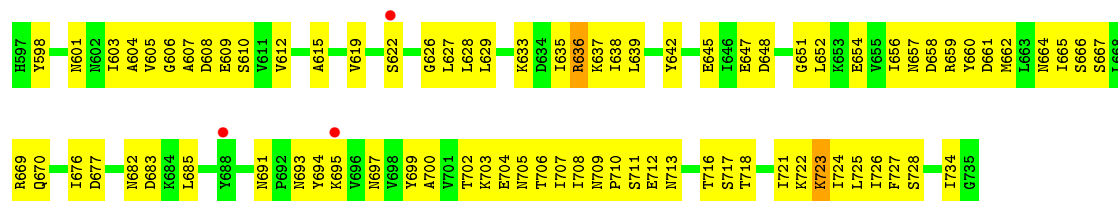


• Molecule 1: Protective antigen

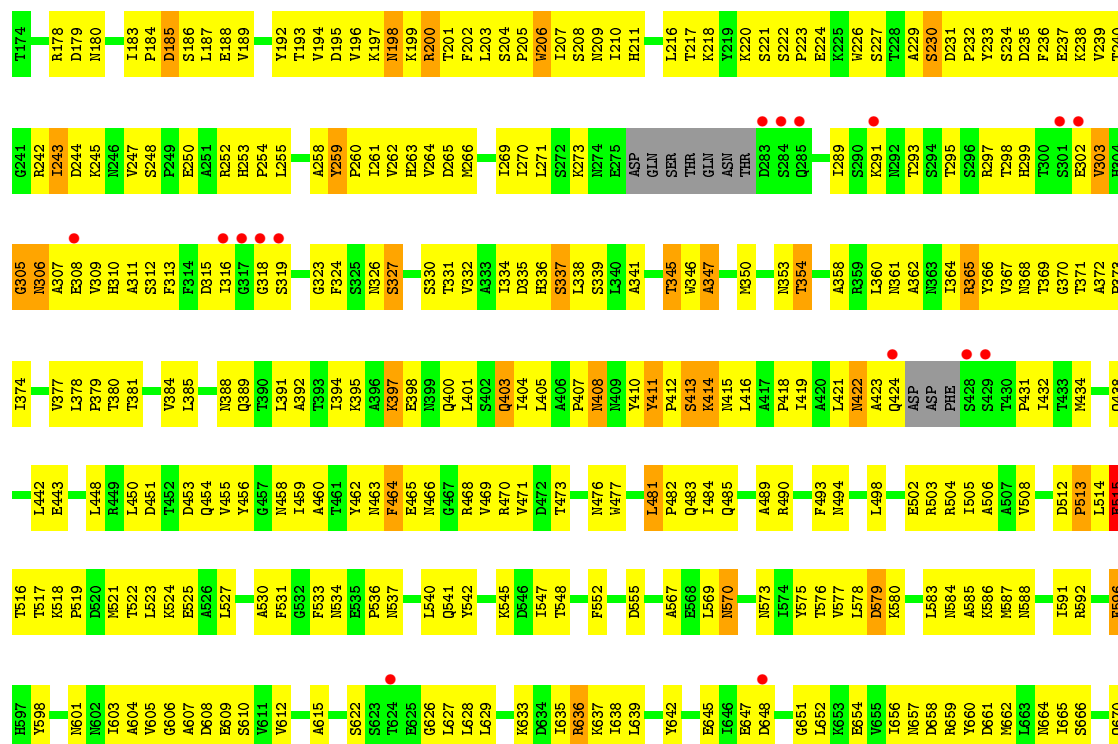


- Molecule 1: Protective antigen

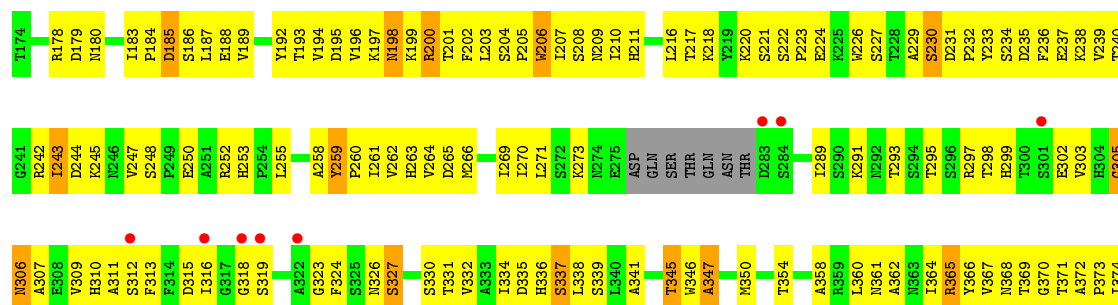




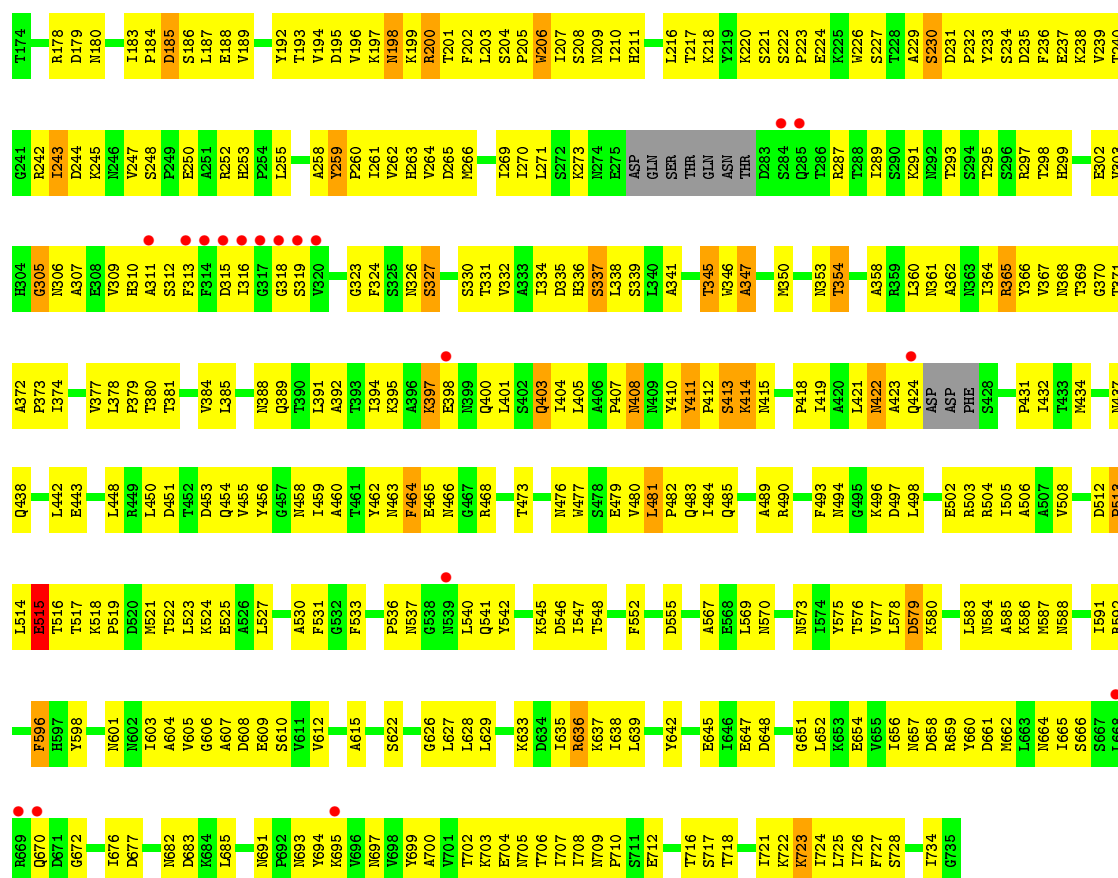
• Molecule 1: Protective antigen



• Molecule 1: Protective antigen







• Molecule 2: Anthrax toxin receptor 2

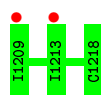


• Molecule 2: Anthrax toxin receptor 2

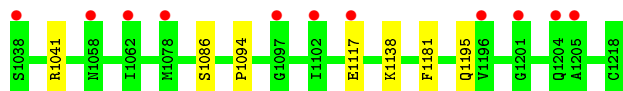


• Molecule 2: Anthrax toxin receptor 2

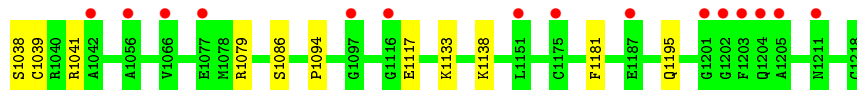




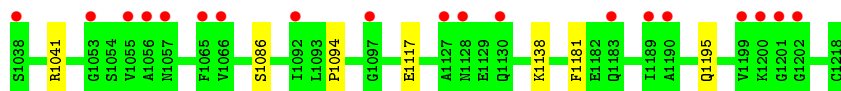
- Molecule 2: Anthrax toxin receptor 2



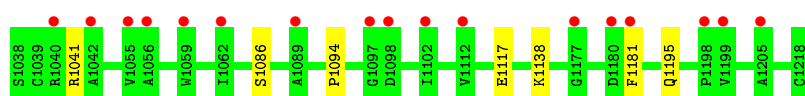
- Molecule 2: Anthrax toxin receptor 2



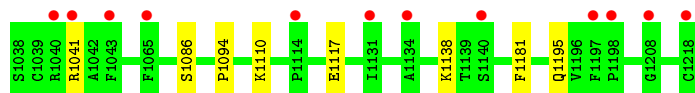
- Molecule 2: Anthrax toxin receptor 2



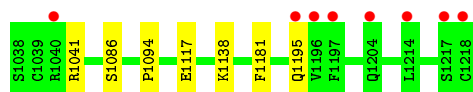
- Molecule 2: Anthrax toxin receptor 2



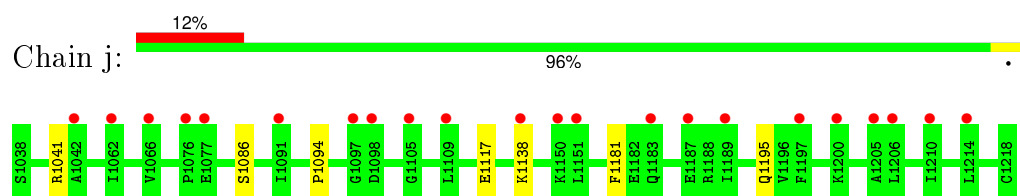
- Molecule 2: Anthrax toxin receptor 2



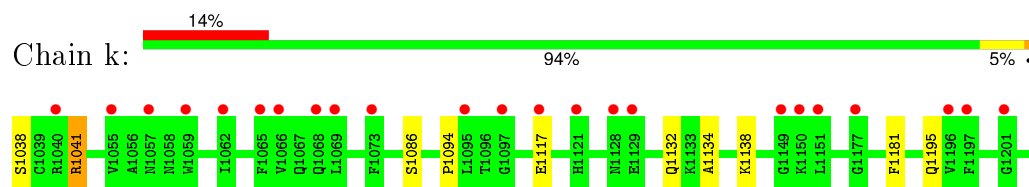
- Molecule 2: Anthrax toxin receptor 2



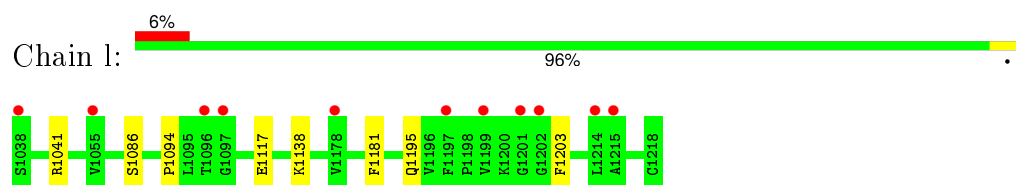
- Molecule 2: Anthrax toxin receptor 2



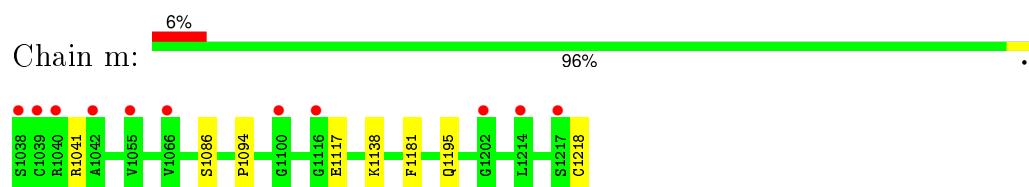
- Molecule 2: Anthrax toxin receptor 2



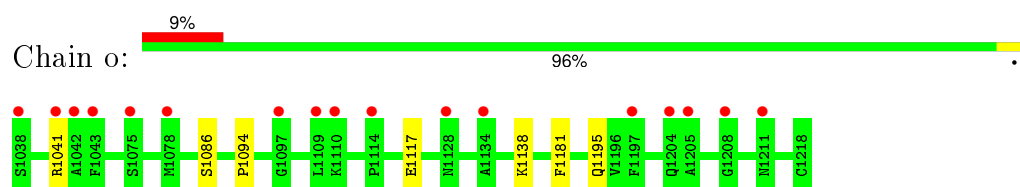
- Molecule 2: Anthrax toxin receptor 2



- 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 19.66 – 4.20	Depositor EDS
% Data completeness (in resolution range)	97.2 (20.00-4.30) 86.3 (19.66-4.20)	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 (5.05%)	DCC
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 , 16.9	EDS
Estimated twinning fraction	0.125 for -k,-h,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.26$	Xtriage
Outliers	0 of 119871 reflections	Xtriage
F_o, F_c correlation	0.80	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, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.27	0/4430	0.51	0/6007
1	B	0.27	0/4430	0.51	0/6007
1	C	0.27	0/4430	0.51	0/6007
1	D	0.27	0/4430	0.51	0/6007
1	E	0.27	0/4430	0.51	0/6007
1	F	0.27	0/4430	0.51	0/6007
1	G	0.27	0/4430	0.51	0/6007
1	H	0.27	0/4430	0.51	0/6007
1	I	0.27	0/4430	0.51	0/6007
1	J	0.27	0/4430	0.51	0/6007
1	K	0.27	0/4430	0.51	0/6007
1	L	0.27	0/4430	0.51	0/6007
1	M	0.27	0/4430	0.51	0/6007
1	O	0.27	0/4430	0.51	0/6007
2	a	0.26	0/1417	0.44	0/1907
2	b	0.26	0/1417	0.44	0/1907
2	c	0.26	0/1417	0.44	0/1907
2	d	0.26	0/1417	0.44	0/1907
2	e	0.26	0/1417	0.44	0/1907
2	f	0.26	0/1417	0.44	0/1907
2	g	0.26	0/1417	0.44	0/1907
2	h	0.26	0/1417	0.44	0/1907
2	i	0.26	0/1417	0.44	0/1907
2	j	0.26	0/1417	0.44	0/1907
2	k	0.26	0/1417	0.44	0/1907
2	l	0.26	0/1417	0.44	0/1907
2	m	0.26	0/1417	0.44	0/1907
2	o	0.26	0/1417	0.44	0/1907
All	All	0.27	0/81858	0.49	0/110796

There are no bond length outliers.

There are no bond angle outliers.

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	416	5
1	B	4356	0	4314	406	0
1	C	4356	0	4314	396	2
1	D	4356	0	4314	396	2
1	E	4356	0	4314	390	2
1	F	4356	0	4314	390	9
1	G	4356	0	4314	447	6
1	H	4356	0	4314	452	5
1	I	4356	0	4314	447	0
1	J	4356	0	4314	411	1
1	K	4356	0	4314	419	2
1	L	4356	0	4314	430	0
1	M	4356	0	4314	442	8
1	O	4356	0	4314	409	2
2	a	1396	0	1426	0	2
2	b	1396	0	1426	0	2
2	c	1396	0	1426	0	0
2	d	1396	0	1426	0	0
2	e	1396	0	1426	0	5
2	f	1396	0	1426	0	0
2	g	1396	0	1426	0	0
2	h	1396	0	1426	0	1
2	i	1396	0	1426	0	0
2	j	1396	0	1426	0	0
2	k	1396	0	1426	0	5
2	l	1396	0	1426	0	4
2	m	1396	0	1426	0	1
2	o	1396	0	1426	0	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
3	C	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
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
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	5343	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 43.

All (5343) 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: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:L:305:GLY:HA2	1:M:670:GLN:CD	1.58	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HE3	1:D:397:LYS:H	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:H	1:C:397:LYS:HE3	1.16	1.10
1:G:316:ILE:HD12	1:H:496:LYS:HB3	1.30	1.09
1:B:319:SER:H	1:C:414:LYS:HG3	1.05	1.09
1:K:397:LYS:HE3	1:K:397:LYS:H	1.16	1.09
1:G:397:LYS:HE3	1:G:397:LYS:H	1.16	1.09
1:E:397:LYS:H	1:E:397:LYS:HE3	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:A:397:LYS:H	1:A:397:LYS:HE3	1.16	1.09
1:M:397:LYS:HE3	1:M:397:LYS:H	1.16	1.08
1:J:397:LYS:HE3	1:J:397:LYS:H	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:L:305:GLY:CA	1:M:670:GLN:NE2	2.18	1.05
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: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:K:305:GLY:HA2	1:L:670:GLN:HE21	1.05	1.04
1:H:397:LYS:HE3	1:H:397:LYS:H	1.16	1.04
1:K:316:ILE:CD1	1:L:496:LYS:HB3	1.88	1.04
1:O:397:LYS:HE3	1:O:397:LYS:H	1.16	1.04
1:I:397:LYS:H	1:I:397:LYS:HE3	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:A:305:GLY:HA2	1:B:670:GLN:CD	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:B:381:THR:HG23	1:B:394:ILE:HG13	1.46	0.98
1:O:381:THR:HG23	1:O:394:ILE:HG13	1.46	0.98
1:E:243:ILE:HD11	1:E:247:VAL:HG21	1.46	0.98
1:D:381:THR:HG23	1:D:394:ILE:HG13	1.46	0.97
1:K:642:TYR:HB2	1:K:665:ILE:HD11	1.42	0.97
1:A:243:ILE:HD11	1:A:247:VAL:HG21	1.46	0.97
1:H:381:THR:HG23	1:H:394:ILE:HG13	1.46	0.97
1:C:316:ILE:HD12	1:O:496:LYS:HB3	1.45	0.97
1:C:243:ILE:HD11	1:C:247:VAL:HG21	1.46	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:G:305:GLY:HA2	1:H:670:GLN:HE21	0.82	0.97
1:F:381:THR:HG23	1:F:394:ILE:HG13	1.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:243:ILE:HD11	1:L: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:B:243:ILE:HD11	1:B: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
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:G:306:ASN:HA	1:H:669:ARG:HB3	1.48	0.94
1:A:496:LYS:HB3	1:F:316:ILE:HD12	1.50	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:E:403:GLN:H	1:E:403:GLN:NE2	1.67	0.92
1:L:305:GLY:HA2	1:M:670:GLN:HG3	1.48	0.92
1:F:403:GLN:NE2	1:F:403:GLN:H	1.68	0.92
1:H:403:GLN:H	1:H:403:GLN:NE2	1.68	0.92
1:G:305:GLY:CA	1:H:670:GLN:NE2	2.22	0.92
1:C:189:VAL:HG13	1:O:199:LYS:HG3	1.52	0.92
1:H:319:SER:HA	1:I:414:LYS:HG3	1.49	0.92
1:D:403:GLN:NE2	1:D:403:GLN:H	1.68	0.92
1:G:403:GLN:H	1:G:403:GLN:NE2	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:I:403:GLN:NE2	1:I:403:GLN:H	1.68	0.91
1:B:178:ARG:NH1	1:C:200:ARG:HB3	1.85	0.91
1:K:403:GLN:NE2	1:K:403:GLN:H	1.67	0.91
1:I:305:GLY:CA	1:J:670:GLN:HE21	1.82	0.91
1:K:305:GLY:CA	1:L:670:GLN:NE2	2.31	0.91
1:L:403:GLN:H	1:L:403:GLN:NE2	1.67	0.91
1:F:521:MET:HA	1:F:521:MET:HE3	1.52	0.91
1:M:403:GLN:H	1:M:403:GLN:NE2	1.67	0.91
1:A:403:GLN:NE2	1:A:403:GLN:H	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:GLN:H	1:B:403:GLN:NE2	1.68	0.91
1:J:403:GLN:NE2	1:J:403:GLN:H	1.67	0.91
1:H:483:GLN:HE21	1:I:469:VAL:HG21	1.25	0.90
1:L:305:GLY:CA	1:M:670:GLN:HG3	2.02	0.90
1:K:271:LEU:HD12	1:K:289:ILE:HD11	1.54	0.90
1:H:513:PRO:HG2	1:I:239:VAL:O	1.71	0.90
1:C:271:LEU:HD12	1:C:289:ILE:HD11	1.54	0.90
1:G:316:ILE:HD12	1:H:496:LYS:CB	2.02	0.90
1:D:271:LEU:HD12	1:D:289:ILE:HD11	1.54	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
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:L:271:LEU:HD12	1:L:289:ILE:HD11	1.54	0.89
1:I:521:MET:HE2	1:I:522:THR:H	1.38	0.89
1:O:508:VAL:HG12	1:O:518:LYS:HB2	1.55	0.89
1:L:403:GLN:HE21	1:L:403:GLN:H	1.20	0.89
1:I:271:LEU:HD12	1:I:289:ILE:HD11	1.54	0.89
1:B:271:LEU:HD12	1:B:289:ILE:HD11	1.54	0.89
1:L:305:GLY:CA	1:M:670:GLN:HE21	1.81	0.89
1:H:508:VAL:HG12	1:H:518:LYS:HB2	1.55	0.89
1:A:403:GLN:HE21	1:A:403:GLN:H	1.20	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:J:271:LEU:HD12	1:J:289:ILE:HD11	1.54	0.89
1:G:308:GLU:HA	1:H:668:LEU:O	1.73	0.89
1:A:508:VAL:HG12	1:A:518:LYS:HB2	1.55	0.89
1:G:271:LEU:HD12	1:G:289:ILE:HD11	1.54	0.89
1:A:271:LEU:HD12	1:A:289:ILE:HD11	1.54	0.89
1:J:423:ALA:O	1:J:424:GLN:HG3	1.73	0.89
1:H:271:LEU:HD12	1:H:289:ILE:HD11	1.54	0.89
1:D:423:ALA:O	1:D:424:GLN:HG3	1.73	0.88
1:K:397:LYS:CE	1:K:397:LYS:H	1.87	0.88
1:O:423:ALA:O	1:O:424:GLN:HG3	1.73	0.88
1:E:508:VAL:HG12	1:E:518:LYS:HB2	1.55	0.88
1:D:508:VAL:HG12	1:D:518:LYS:HB2	1.55	0.88
1:G:521:MET:HE3	1:G:521:MET:HA	1.55	0.88
1:B:397:LYS:CE	1:B:397:LYS:H	1.87	0.88
1:B:423:ALA:O	1:B:424:GLN:HG3	1.74	0.88
1:G:397:LYS:CE	1:G:397:LYS:H	1.86	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:423:ALA:O	1:L:424:GLN:HG3	1.73	0.88
1:K:521:MET:HA	1:K:521:MET:HE3	1.53	0.88
1:K:508:VAL:HG12	1:K:518:LYS:HB2	1.55	0.88
1:J:319:SER:N	1:K:414:LYS:HG3	1.87	0.88
1:C:397:LYS:H	1:C:397:LYS:CE	1.86	0.88
1:J:508:VAL:HG12	1:J:518:LYS:HB2	1.55	0.88
1:J:397:LYS:CE	1:J:397:LYS:H	1.87	0.88
1:I:423:ALA:O	1:I:424:GLN:HG3	1.73	0.88
1:E:397:LYS:H	1:E:397:LYS:CE	1.86	0.88
1:D:670:GLN:CD	1:O:305:GLY:HA2	1.94	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:CE	1:D:397:LYS:H	1.86	0.88
1:K:423:ALA:O	1:K:424:GLN:HG3	1.73	0.88
1:A:521:MET:HE3	1:A:521:MET:HA	1.56	0.88
1:D:521:MET:HA	1:D:521:MET:HE3	1.56	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:F:397:LYS:CE	1:F:397:LYS:H	1.87	0.87
1:C:423:ALA:O	1:C:424:GLN:HG3	1.73	0.87
1:J:521:MET:HA	1:J:521:MET:HE3	1.56	0.87
1:M:397:LYS:CE	1:M:397:LYS:H	1.86	0.87
1:M:423:ALA:O	1:M:424:GLN:HG3	1.73	0.87
1:E:178:ARG:NH1	1:F:200:ARG:HB3	1.89	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:F:423:ALA:O	1:F:424:GLN:HG3	1.73	0.87
1:B:523:LEU:HD21	1:B:552:PHE:HE2	1.40	0.87
1:D:403:GLN:H	1:D:403:GLN:HE21	1.20	0.87
1:J:314:PHE:HZ	1:K:670:GLN:O	1.56	0.87
1:I:316:ILE:HD12	1:J:496:LYS:HB3	1.56	0.87
1:G:303:VAL:HG23	1:H:670:GLN:HG2	1.53	0.87
1:A:423:ALA:O	1:A:424:GLN:HG3	1.73	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:O:397:LYS:H	1:O:397:LYS:CE	1.86	0.86
1:L:523:LEU:HD21	1:L:552:PHE:HE2	1.40	0.86
1:M:403:GLN:H	1:M:403:GLN:HE21	1.20	0.86
1:H:397:LYS:CE	1:H:397:LYS:H	1.86	0.86
1:J:403:GLN:HE21	1:J:403:GLN:H	1.20	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:508:VAL:HG12	1:F:518:LYS:HB2	1.55	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:H:403:GLN:H	1:H:403:GLN:HE21	1.20	0.86
1:G:469:VAL:HG21	1:M:483:GLN:HE21	1.36	0.86
1:E:361:ASN:HD21	1:E:423:ALA:HB2	1.41	0.86
1:O:361:ASN:HD21	1:O:423:ALA:HB2	1.41	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:G:523:LEU:HD21	1:G:552:PHE:HE2	1.40	0.86
1:O:523:LEU:HD21	1:O:552:PHE:HE2	1.40	0.86
1:L:607:ALA:H	1:L:638:ILE:HD12	1.41	0.86
1:F:607:ALA:H	1:F:638:ILE:HD12	1.41	0.86
1:O:521:MET:HE2	1:O:522:THR:H	1.40	0.86
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
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:O:394:ILE:HG21	1:O:421:LEU:HD22	1.59	0.85
1:D:243:ILE:HG12	1:D:244:ASP:N	1.91	0.85
1:A:523:LEU:HD21	1:A:552:PHE:HE2	1.40	0.85
1:K:403:GLN:HE21	1:K:403:GLN:H	1.20	0.85
1:L:394:ILE:HG21	1:L:421:LEU:HD22	1.59	0.85
1:I:243:ILE:HG12	1:I:244:ASP:N	1.91	0.85
1:B:243:ILE:HG12	1:B:244:ASP:N	1.91	0.85
1:K:394:ILE:HG21	1:K:421:LEU:HD22	1.59	0.85
1:C:521:MET:HA	1:C:521:MET:HE3	1.59	0.85
1:K:361:ASN:HD21	1:K:423:ALA:HB2	1.41	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:I:607:ALA:H	1:I:638:ILE:HD12	1.41	0.85
1:H:607:ALA:H	1:H: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:J:243:ILE:HG12	1:J:244:ASP:N	1.91	0.84
1:O:403:GLN:HE21	1:O:403:GLN:H	1.20	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:394:ILE:HG21	1:G:421:LEU:HD22	1.59	0.84
1:B:403:GLN:HE21	1:B:403:GLN:H	1.20	0.84
1:K:523:LEU:HD21	1:K:552:PHE:HE2	1.40	0.84
1:L:305:GLY:C	1:M:670:GLN:HG3	1.97	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:O:243:ILE:HG12	1:O:244:ASP:N	1.91	0.84
1:I:523:LEU:HD21	1:I:552:PHE:HE2	1.40	0.84
1:E:523:LEU:HD21	1:E:552:PHE:HE2	1.40	0.84
1:A:361:ASN:HD21	1:A:423:ALA:HB2	1.41	0.84
1:L:521:MET:HA	1:L:521:MET:HE3	1.57	0.84
1:F:403:GLN:HE21	1:F:403:GLN:H	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: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
1:D:523:LEU:HD21	1:D:552:PHE:HE2	1.40	0.84
1:H:394:ILE:HG21	1:H:421:LEU:HD22	1.59	0.83
1:M:521:MET:HE2	1:M:522:THR:H	1.41	0.83
1:H:243:ILE:HG12	1:H:244:ASP:N	1.91	0.83
1:E:607:ALA:H	1:E:638:ILE:HD12	1.41	0.83
1:I:394:ILE:HG21	1:I:421:LEU:HD22	1.59	0.83
1:M:243:ILE:HG12	1:M:244:ASP:N	1.91	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:M:394:ILE:HG21	1:M:421:LEU:HD22	1.59	0.83
1:M:361:ASN:HD21	1:M:423:ALA:HB2	1.41	0.83
1:G:513:PRO:HG2	1:H:239:VAL:O	1.79	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
1:D:394:ILE:HG21	1:D:421:LEU:HD22	1.59	0.83
1:C:243:ILE:HG12	1:C:244:ASP:N	1.91	0.83
1:E:403:GLN:H	1:E:403:GLN:HE21	1.20	0.83
1:C:361:ASN:HD21	1:C:423:ALA:HB2	1.41	0.83
1:F:361:ASN:HD21	1:F:423:ALA:HB2	1.41	0.83
1:H:361:ASN:HD21	1:H:423:ALA:HB2	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:ARG:NH1	1:E:200:ARG:HB3	1.93	0.83
1:B:607:ALA:H	1:B:638:ILE:HD12	1.41	0.83
1:G:468:ARG:HD3	1:M:480:VAL:HG21	1.60	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:G:243:ILE:HG12	1:G:244:ASP:N	1.91	0.82
1:A:496:LYS:HB3	1:F:316:ILE:CD1	2.09	0.82
1:G:468:ARG:HH22	1:M:232:PRO:HA	1.44	0.82
1:C:403:GLN:HE21	1:C:403:GLN:H	1.20	0.82
1:I:521:MET:HE1	1:I:525:GLU:HG2	1.61	0.82
1:M:521:MET:HE1	1:M:525:GLU:HG2	1.61	0.82
1:A:607:ALA:H	1:A:638:ILE:HD12	1.41	0.82
1:I:316:ILE:HD11	1:J:496:LYS:HB3	1.61	0.82
1:A:201:THR:HG23	1:F:224:GLU:OE2	1.79	0.82
1:K:513:PRO:HG2	1:L:239:VAL:O	1.78	0.82
1:B:521:MET:HE1	1:B:525:GLU:HG2	1.62	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
1:O:521:MET:HE1	1:O:525:GLU:HG2	1.61	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:E:521:MET:HA	1:E:521:MET:HE3	1.61	0.81
1:B:380:THR:HG23	1:B:395:LYS:HB2	1.63	0.80
1:O:380:THR:HG23	1:O:395:LYS:HB2	1.63	0.80
1:H:513:PRO:HB2	1:I:240:THR:O	1.81	0.80
1:A:308:GLU:OE2	1:B:667:SER:HB3	1.80	0.80
1:L:305:GLY:HA3	1:M:670:GLN:NE2	1.96	0.80
1:C:380:THR:HG23	1:C:395:LYS:HB2	1.63	0.80
1:O:232:PRO:HG3	1:O:459:ILE:HD13	1.64	0.80
1:G:232:PRO:HG3	1:G:459:ILE:HD13	1.64	0.80
1:G:380:THR:HG23	1:G:395:LYS:HB2	1.63	0.80
1:F:524:LYS:HD2	1:F:579:ASP:HB3	1.64	0.80
1:E:524:LYS:HD2	1:E:579:ASP:HB3	1.64	0.80
1:E:232:PRO:HG3	1:E:459:ILE:HD13	1.64	0.80
1:D:524:LYS:HD2	1:D:579:ASP:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:MET:HE1	1:E:525:GLU:HG2	1.64	0.80
1:E:380:THR:HG23	1:E:395:LYS:HB2	1.63	0.80
1:L:316:ILE:HD12	1:M:496:LYS:CD	2.10	0.80
1:I:305:GLY:CA	1:J:670:GLN:NE2	2.42	0.80
1:A:316:ILE:CD1	1:B:496:LYS:HD3	2.12	0.80
1:D:423:ALA:O	1:D:424:GLN:CG	2.30	0.80
1:M:423:ALA:O	1:M:424:GLN:CG	2.30	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:A:380:THR:HG23	1:A:395:LYS:HB2	1.63	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:G:524:LYS:HD2	1:G:579:ASP:HB3	1.64	0.80
1:M:380:THR:HG23	1:M:395:LYS:HB2	1.63	0.80
1:L:232:PRO:HG3	1:L:459:ILE:HD13	1.64	0.80
1:B:524:LYS:HD2	1:B:579:ASP:HB3	1.64	0.80
1:O:240:THR:HG23	1:O:242:ARG:H	1.47	0.80
1:M:524:LYS:HD2	1:M:579:ASP:HB3	1.64	0.79
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
1:I:524:LYS:HD2	1:I:579:ASP:HB3	1.64	0.79
1:H:423:ALA:O	1:H:424:GLN:CG	2.30	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:240:THR:HG23	1:A:242:ARG:H	1.47	0.79
1:H:319:SER:H	1:I:414:LYS:CG	1.90	0.79
1:K:423:ALA:O	1:K:424:GLN:CG	2.30	0.79
1:F:380:THR:HG23	1:F:395:LYS:HB2	1.63	0.79
1:H:479:GLU:OE1	1:I:470:ARG:HG3	1.83	0.79
1:C:232:PRO:HG3	1:C:459:ILE:HD13	1.64	0.79
1:A:232:PRO:HG3	1:A:459:ILE:HD13	1.64	0.79
1:I:240:THR:HG23	1:I:242:ARG:H	1.47	0.79
1:E:423:ALA:O	1:E: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: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:H:200:ARG:HD2	1:H:200:ARG:N	1.98	0.79
1:E:200:ARG:N	1:E:200:ARG:HD2	1.98	0.79
1:D:200:ARG:N	1:D:200:ARG:HD2	1.98	0.79
1:I:423:ALA:O	1:I:424:GLN:CG	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:240:THR:HG23	1:K:242:ARG:H	1.47	0.79
1:K:200:ARG:HD2	1:K:200:ARG:N	1.98	0.79
1:H:380:THR:HG23	1:H:395:LYS:HB2	1.63	0.79
1:H:521:MET:HE1	1:H:525:GLU:HG2	1.63	0.79
1:H:524:LYS:HD2	1:H:579:ASP:HB3	1.64	0.79
1:G:414:LYS:CG	1:M:319:SER:N	2.18	0.79
1:A:305:GLY:HA2	1:B:670:GLN:HG3	1.62	0.79
1:F:240:THR:HG23	1:F:242:ARG:H	1.47	0.79
1:F:232:PRO:HG3	1:F:459:ILE:HD13	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:A:524:LYS:HD2	1:A:579:ASP:HB3	1.64	0.79
1:L:423:ALA:O	1:L: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:318:GLY:HA2	1:M:410:TYR:CE1	2.17	0.78
1:K:524:LYS:HD2	1:K:579:ASP:HB3	1.64	0.78
1:G:466:ASN:HA	1:M:226:TRP:CD1	2.17	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
1:B:521:MET:HE2	1:B:522:THR:H	1.44	0.78
1:C:240:THR:HG23	1:C:242:ARG:H	1.47	0.78
1:O:423:ALA:O	1:O:424:GLN:CG	2.30	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
1:M:232:PRO:HG3	1:M:459:ILE:HD13	1.64	0.78
1:L:188:GLU:HG3	1:L:221:SER:OG	1.84	0.78
1:H:232:PRO:HG3	1:H:459:ILE:HD13	1.64	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
1:J:194:VAL:HG22	1:J:203:LEU:HA	1.66	0.78
1:O:200:ARG:HD2	1:O:200:ARG:N	1.98	0.78
1:I:316:ILE:CD1	1:J:496:LYS:HD3	2.13	0.78
1:G:194:VAL:HG22	1:G:203:LEU:HA	1.66	0.78
1:K:194:VAL:HG22	1:K:203:LEU:HA	1.66	0.78
1:M:200:ARG:N	1:M: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:HD2	1:F:200:ARG:N	1.98	0.78
1:J:240:THR:HG23	1:J:242:ARG:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:521:MET:HE2	1:H:522:THR:H	1.49	0.78
1:H:521:MET:HE3	1:H:521:MET:HA	1.66	0.78
1:J:188:GLU:HG3	1:J:221:SER:OG	1.84	0.78
1:H:605:VAL:HG12	1:H:704:GLU:HB3	1.66	0.78
1:K:380:THR:HG23	1:K:395:LYS:HB2	1.63	0.78
1:K:232:PRO:HG3	1:K:459:ILE:HD13	1.64	0.78
1:K:305:GLY:HA2	1:L:670:GLN:CD	2.05	0.78
1:H:240:THR:HG23	1:H:242:ARG:H	1.47	0.78
1:D:232:PRO:HG3	1:D:459:ILE:HD13	1.64	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:L:200:ARG:N	1:L:200:ARG:HD2	1.98	0.78
1:G:466:ASN:HA	1:M:226:TRP:CG	2.19	0.78
1:A:605:VAL:HG12	1:A:704:GLU:HB3	1.66	0.78
1:I:200:ARG:HD2	1:I:200:ARG:N	1.98	0.78
1:I:305:GLY:HA2	1:J:670:GLN:CD	2.03	0.77
1:A:200:ARG:N	1:A:200:ARG:HD2	1.98	0.77
1:H:194:VAL:HG22	1:H:203:LEU:HA	1.66	0.77
1:O:188:GLU:HG3	1:O:221:SER:OG	1.84	0.77
1:E:240:THR:HG23	1:E:242:ARG:H	1.47	0.77
1:J:524:LYS:HD2	1:J:579:ASP:HB3	1.64	0.77
1:B:377:VAL:HG13	1:B:398:GLU:HG3	1.66	0.77
1:B:200:ARG:HD2	1:B:200:ARG:N	1.98	0.77
1:A:194:VAL:HG22	1:A:203:LEU:HA	1.66	0.77
1:H:483:GLN:CD	1:I:469:VAL:HG21	2.04	0.77
1:B:605:VAL:HG12	1:B:704:GLU:HB3	1.66	0.77
1:B:240:THR:HG23	1:B:242:ARG:H	1.47	0.77
1:M:188:GLU:HG3	1:M:221:SER:OG	1.84	0.77
1:K:377:VAL:HG13	1:K:398:GLU:HG3	1.66	0.77
1:A:377:VAL:HG13	1:A:398:GLU:HG3	1.66	0.77
1:O:377:VAL:HG13	1:O:398:GLU:HG3	1.66	0.77
1:L:521:MET:HE1	1:L:525:GLU:HG2	1.66	0.77
1:H:188:GLU:HG3	1:H:221:SER:OG	1.84	0.77
1:M:240:THR:HG23	1:M:242:ARG:H	1.47	0.77
1:H:377:VAL:HG13	1:H:398:GLU:HG3	1.66	0.77
1:F:188:GLU:HG3	1:F:221:SER:OG	1.84	0.77
1:C:521:MET:HE1	1:C:525:GLU:HG2	1.65	0.77
1:O:194:VAL:HG22	1:O:203:LEU:HA	1.66	0.77
1:J:232:PRO:HG3	1:J:459:ILE:HD13	1.64	0.77
1:D:188:GLU:HG3	1:D:221:SER:OG	1.84	0.77
1:C:189:VAL:HG13	1:O:199:LYS:CG	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:605:VAL:HG12	1:M:704:GLU:HB3	1.66	0.77
1:G:305:GLY:HA2	1:H:670:GLN:CD	2.05	0.77
1:H:318:GLY:CA	1:I:410:TYR:CE1	2.67	0.77
1:J:521:MET:HE1	1:J:525:GLU:HG2	1.67	0.77
1:A:200:ARG:HB3	1:F:178:ARG:CZ	2.15	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:C:605:VAL:HG12	1:C:704:GLU:HB3	1.66	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:A:188:GLU:HG3	1:A:221:SER:OG	1.84	0.77
1:G:316:ILE:HD11	1:H:496:LYS:HB3	1.66	0.77
1:I:377:VAL:HG13	1:I:398:GLU:HG3	1.66	0.77
1:F:194:VAL:HG22	1:F:203:LEU:HA	1.66	0.77
1:L:516:THR:HG21	1:M:196:VAL:HG21	1.66	0.77
1:B:188:GLU:HG3	1:B:221:SER:OG	1.84	0.77
1:I:188:GLU:HG3	1:I:221:SER:OG	1.84	0.76
1:L:194:VAL:HG22	1:L:203:LEU:HA	1.66	0.76
1:F:605:VAL:HG12	1:F:704:GLU:HB3	1.66	0.76
1:K:605:VAL:HG12	1:K:704:GLU:HB3	1.66	0.76
1:I:605:VAL:HG12	1:I:704:GLU:HB3	1.66	0.76
1:J:605:VAL:HG12	1:J:704:GLU:HB3	1.66	0.76
1:G:188:GLU:HG3	1:G:221:SER:OG	1.84	0.76
1:G:521:MET:HE1	1:G:525:GLU:HG2	1.68	0.76
1:D:521:MET:HE1	1:D:525:GLU:HG2	1.67	0.76
1:M:194:VAL:HG22	1:M:203:LEU:HA	1.66	0.76
1:L:605:VAL:HG12	1:L:704:GLU:HB3	1.66	0.76
1:J:319:SER:H	1:K:414:LYS:CG	1.93	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
1:M:397:LYS:HE3	1:M:397:LYS:N	1.99	0.76
1:G:397:LYS:HD2	1:G:400:GLN:NE2	2.01	0.76
1:L:377:VAL:HG13	1:L:398:GLU:HG3	1.66	0.76
1:B:224:GLU:OE2	1:C:201:THR:HG23	1.84	0.76
1:G:470:ARG:HG3	1:M:479:GLU:OE1	1.86	0.76
1:D:377:VAL:HG13	1:D:398:GLU:HG3	1.66	0.76
1:C:397:LYS:HD2	1:C:400:GLN:NE2	2.01	0.76
1:J:377:VAL:HG13	1:J:398:GLU:HG3	1.66	0.76
1:I:397:LYS:HD2	1:I:400:GLN:NE2	2.01	0.76
1:E:605:VAL:HG12	1:E:704:GLU:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:605:VAL:HG12	1:D:704:GLU:HB3	1.66	0.76
1:M:377:VAL:HG13	1:M:398:GLU:HG3	1.66	0.76
1:E:397:LYS:HE3	1:E:397:LYS:N	1.99	0.75
1:O:397:LYS:HD2	1:O:400:GLN:NE2	2.01	0.75
1:E:194:VAL:HG22	1:E:203:LEU:HA	1.66	0.75
1:B:194:VAL:HG22	1:B:203:LEU:HA	1.66	0.75
1:G:316:ILE:CD1	1:H:496:LYS:CB	2.59	0.75
1:D:194:VAL:HG22	1:D:203:LEU:HA	1.66	0.75
1:B:397:LYS:HD2	1:B:400:GLN:NE2	2.01	0.75
1:M:397:LYS:HD2	1:M:400:GLN:NE2	2.01	0.75
1:G:377:VAL:HG13	1:G:398:GLU:HG3	1.66	0.75
1:L:397:LYS:HD2	1:L:400:GLN:NE2	2.01	0.75
1:K:316:ILE:HD11	1:L:496:LYS:HB3	1.68	0.75
1:A:200:ARG:HB3	1:F:178:ARG:HH12	1.52	0.75
1:I:194:VAL:HG22	1:I:203:LEU:HA	1.66	0.75
1:K:397:LYS:HD2	1:K:400:GLN:NE2	2.01	0.75
1:J:397:LYS:HD2	1:J:400:GLN:NE2	2.01	0.75
1:I:238:LYS:HB3	1:I:252:ARG:O	1.87	0.75
1:C:224:GLU:OE2	1:O:201:THR:N	2.19	0.75
1:G:316:ILE:HD12	1:H:496:LYS:HD3	1.67	0.74
1:I:397:LYS:HE3	1:I:397:LYS:N	1.99	0.74
1:A:178:ARG:HH12	1:B:200:ARG:HB3	1.52	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:O:397:LYS:N	1:O:397:LYS:HE3	1.99	0.74
1:J:238:LYS:HB3	1:J:252:ARG:O	1.87	0.74
1:E:238:LYS:HB3	1:E:252:ARG:O	1.87	0.74
1:D:397:LYS:HD2	1:D:400:GLN:NE2	2.01	0.74
1:F:397:LYS:HD2	1:F:400:GLN:NE2	2.01	0.74
1:D:670:GLN:NE2	1:O:305:GLY:HA2	2.02	0.74
1:A:521:MET:HE1	1:A:525:GLU:HG2	1.67	0.74
1:B:238:LYS:HB3	1:B:252:ARG:O	1.87	0.74
1:O:238:LYS:HB3	1:O:252:ARG:O	1.87	0.74
1:K:305:GLY:HA2	1:L:670:GLN:HG3	1.70	0.74
1:I:318:GLY:HA2	1:J:410:TYR:CE1	2.22	0.74
1:K:521:MET:HE1	1:K:525:GLU:HG2	1.70	0.74
1:D:238:LYS:HB3	1:D:252:ARG:O	1.87	0.74
1:J:479:GLU:HG2	1:K:471:VAL:HG23	1.68	0.74
1:E:397:LYS:HD2	1:E:400:GLN:NE2	2.01	0.74
1:B:178:ARG:CZ	1:C:200:ARG:HB3	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:523:LEU:HD21	1:F:552:PHE:CE2	2.23	0.74
1:A:238:LYS:HB3	1:A:252:ARG:O	1.87	0.74
1:E:517:THR:HG23	1:F:199:LYS:O	1.88	0.74
1:I:523:LEU:HD21	1:I:552:PHE:CE2	2.23	0.74
1:F:238:LYS:HB3	1:F:252:ARG:O	1.87	0.74
1:H:397:LYS:HD2	1:H:400:GLN:NE2	2.01	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:G:238:LYS:HB3	1:G:252:ARG:O	1.87	0.74
1:I:365:ARG:NH2	1:I:418:PRO:HG3	2.03	0.74
1:H:305:GLY:HA2	1:I:670:GLN:CG	2.18	0.74
1:B:523:LEU:HD21	1:B:552:PHE:CE2	2.23	0.73
1:J:314:PHE:CZ	1:K:670:GLN:O	2.41	0.73
1:D:468:ARG:HH11	1:O:480:VAL:HG21	1.52	0.73
1:L:523:LEU:HD21	1:L:552:PHE:CE2	2.23	0.73
1:J:523:LEU:HD21	1:J:552:PHE:CE2	2.23	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:B:521:MET:HE3	1:B:521:MET:HA	1.71	0.73
1:C:365:ARG:NH2	1:C:418:PRO:HG3	2.04	0.73
1:K:316:ILE:CD1	1:L:496:LYS:HD3	2.17	0.73
1:B:365:ARG:NH2	1:B:418:PRO:HG3	2.04	0.73
1:D:178:ARG:HH12	1:E:200:ARG:HB3	1.51	0.73
1:E:521:MET:HE2	1:E:522:THR:H	1.54	0.73
1:G:365:ARG:NH2	1:G:418:PRO:HG3	2.03	0.73
1:M:365:ARG:NH2	1:M:418:PRO:HG3	2.03	0.73
1:I:305:GLY:CA	1:J:670:GLN:HG3	2.19	0.73
1:C:238:LYS:HB3	1:C:252:ARG:O	1.87	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:O:523:LEU:HD21	1:O:552:PHE:CE2	2.23	0.73
1:E:523:LEU:HD21	1:E:552:PHE:CE2	2.23	0.73
1:J:397:LYS:HE3	1:J:397:LYS:N	1.99	0.73
1:D:410:TYR:CE1	1:O:318:GLY:HA2	2.24	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:L:397:LYS:N	1:L:397:LYS:HE3	1.99	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:365:ARG:NH2	1:D:418:PRO:HG3	2.03	0.72
1:O:703:LYS:O	1:O:706:THR:HG22	1.89	0.72
1:J:703:LYS:O	1:J:706:THR:HG22	1.89	0.72
1:F:703:LYS:O	1:F:706:THR:HG22	1.89	0.72
1:A:199:LYS:O	1:F:517:THR:HG23	1.88	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:E:236:PHE:O	1:E:240:THR:HG22	1.90	0.72
1:A:670:GLN:NE2	1:F:305:GLY:HA2	2.05	0.72
1:H:703:LYS:O	1:H:706:THR:HG22	1.89	0.72
1:E:365:ARG:NH2	1:E:418:PRO:HG3	2.03	0.72
1:O:365:ARG:NH2	1:O:418:PRO:HG3	2.03	0.72
1:K:703:LYS:O	1:K:706:THR:HG22	1.89	0.72
1:B:703:LYS:O	1:B:706:THR:HG22	1.89	0.72
1:L:365:ARG:NH2	1:L:418:PRO:HG3	2.04	0.72
1:I:223:PRO:HD2	1:I:517:THR:HG22	1.72	0.72
1:M:236:PHE:O	1:M:240:THR:HG22	1.90	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:E:703:LYS:O	1:E:706:THR:HG22	1.89	0.72
1:K:365:ARG:NH2	1:K:418:PRO:HG3	2.03	0.72
1:C:223:PRO:HD2	1:C:517:THR:HG22	1.72	0.72
1:F:397:LYS:N	1:F:397:LYS:HE3	1.99	0.72
1:O:236:PHE:O	1:O:240:THR:HG22	1.90	0.72
1:A:236:PHE:O	1:A:240:THR:HG22	1.90	0.72
1:J:226:TRP:CD1	1:K:466:ASN:HA	2.23	0.72
1:C:397:LYS:HD2	1:C:400:GLN:HE22	1.55	0.72
1:K:223:PRO:HD2	1:K:517:THR:HG22	1.72	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
1:K:397:LYS:N	1:K:397:LYS:HE3	1.99	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:H:223:PRO:HD2	1:H:517:THR:HG22	1.72	0.71
1:F:521:MET:HE1	1:F:525:GLU:HG2	1.71	0.71
1:A:365:ARG:NH2	1:A:418:PRO:HG3	2.04	0.71
1:G:236:PHE:O	1:G:240:THR:HG22	1.90	0.71
1:A:703:LYS:O	1:A:706:THR:HG22	1.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:H:483:GLN:HE21	1:I:469:VAL:CG2	2.03	0.71
1:E:397:LYS:HD2	1:E:400:GLN:HE22	1.55	0.71
1:M:223:PRO:HD2	1:M:517:THR:HG22	1.72	0.71
1:G:523:LEU:HD21	1:G:552:PHE:CE2	2.23	0.71
1:D:523:LEU:HD21	1:D:552:PHE:CE2	2.23	0.71
1:F:236:PHE:O	1:F:240:THR:HG22	1.90	0.71
1:D:703:LYS:O	1:D:706:THR:HG22	1.89	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:A:316:ILE:HD12	1:B:496:LYS:HB3	1.73	0.71
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:C:703:LYS:O	1:C:706:THR:HG22	1.89	0.71
1:G:703:LYS:O	1:G:706:THR:HG22	1.89	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:O:397:LYS:HD2	1:O:400:GLN:HE22	1.55	0.71
1:J:394:ILE:HG21	1:J:421:LEU:CD2	2.21	0.71
1:K:236:PHE:O	1:K:240:THR:HG22	1.90	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: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:F:223:PRO:HD2	1:F:517:THR:HG22	1.72	0.71
1:M:494:ASN:OD1	1:M:592:ARG:HA	1.91	0.71
1:F:494:ASN:OD1	1:F:592:ARG:HA	1.91	0.71
1:L:494:ASN:OD1	1:L:592:ARG:HA	1.91	0.71
1:M:659:ARG:HA	1:M:716:THR:O	1.91	0.71
1:L:659:ARG:HA	1:L:716:THR:O	1.91	0.71
1:H:659:ARG:HA	1:H:716:THR:O	1.91	0.71
1:L:306:ASN:N	1:M:670:GLN:HG3	2.06	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:E:223:PRO:HD2	1:E:517:THR:HG22	1.72	0.71
1:C:521:MET:HE2	1:C:522:THR:H	1.56	0.71
1:I:659:ARG:HA	1:I:716:THR:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:659:ARG:HA	1:B:716:THR:O	1.91	0.71
1:H:378:LEU:CD1	1:H:401:LEU:HD21	2.21	0.70
1:C:378:LEU:HD13	1:C:401:LEU:HD21	1.73	0.70
1:J:397:LYS:HD2	1:J:400:GLN:HE22	1.55	0.70
1:C:236:PHE:O	1:C:240:THR:HG22	1.90	0.70
1:C:494:ASN:OD1	1:C:592:ARG:HA	1.91	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
1:A:378:LEU:HD13	1:A:401:LEU:HD21	1.73	0.70
1:O:223:PRO:HD2	1:O:517:THR:HG22	1.72	0.70
1:J:236:PHE:O	1:J:240:THR:HG22	1.90	0.70
1:I:378:LEU:HD13	1:I:401:LEU:HD21	1.73	0.70
1:H:397:LYS:HE3	1:H:397:LYS:N	1.99	0.70
1:O:394:ILE:HG21	1:O:421:LEU:CD2	2.21	0.70
1:C:659:ARG:HA	1:C:716:THR:O	1.91	0.70
1:H:397:LYS:HD2	1:H:400:GLN:HE22	1.55	0.70
1:L:378:LEU:HD13	1:L:401:LEU:HD21	1.73	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:A:659:ARG:HA	1:A:716:THR:O	1.91	0.70
1:G:414:LYS:CB	1:M:319:SER:CA	2.67	0.70
1:K:303:VAL:CG2	1:L:670:GLN:HG2	2.20	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:L:199:LYS:H	1:L:200:ARG:HD2	1.57	0.70
1:A:494:ASN:OD1	1:A:592:ARG:HA	1.91	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:G:397:LYS:HD2	1:G:400:GLN:HE22	1.55	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:I:394:ILE:HG21	1:I:421:LEU:CD2	2.21	0.70
1:B:378:LEU:CD1	1:B:401:LEU:HD21	2.21	0.70
1:A:378:LEU:CD1	1:A:401:LEU:HD21	2.21	0.70
1:D:199:LYS:H	1:D:200:ARG:HD2	1.57	0.70
1:A:223:PRO:HD2	1:A:517:THR:HG22	1.72	0.70
1:G:199:LYS:H	1:G:200:ARG:HD2	1.57	0.70
1:I:505:ILE:HD11	1:I:530:ALA:HB2	1.74	0.70
1:E:659:ARG:HA	1:E:716:THR:O	1.91	0.70
1:G:378:LEU:CD1	1:G:401:LEU:HD21	2.21	0.70
1:M:378:LEU:CD1	1:M:401:LEU:HD21	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:494:ASN:OD1	1:G:592:ARG:HA	1.91	0.70
1:K:308:GLU:OE2	1:L:667:SER:CB	2.40	0.70
1:G:659:ARG:HA	1:G:716:THR:O	1.91	0.70
1:C:505:ILE:HD11	1:C:530:ALA:HB2	1.74	0.70
1:D:394:ILE:HG21	1:D:421:LEU:CD2	2.21	0.70
1:L:394:ILE:HG21	1:L:421:LEU:CD2	2.21	0.70
1:K:394:ILE:HG21	1:K:421:LEU:CD2	2.21	0.70
1:E:378:LEU:CD1	1:E:401:LEU:HD21	2.21	0.70
1:D:378:LEU:CD1	1:D:401:LEU:HD21	2.21	0.70
1:B:223:PRO:HD2	1:B:517:THR:HG22	1.72	0.70
1:M:378:LEU:HD13	1:M:401:LEU:HD21	1.73	0.70
1:L:378:LEU:CD1	1:L:401:LEU:HD21	2.21	0.70
1:F:378:LEU:CD1	1:F:401:LEU:HD21	2.21	0.70
1:D:505:ILE:HD11	1:D:530:ALA:HB2	1.74	0.70
1:O:659:ARG:HA	1:O:716:THR:O	1.91	0.70
1:O:199:LYS:H	1:O:200:ARG:HD2	1.57	0.70
1:A:397:LYS:HE3	1:A:397:LYS:N	1.99	0.70
1:H:394:ILE:HG21	1:H:421:LEU:CD2	2.21	0.70
1:G:394:ILE:HG21	1:G:421:LEU:CD2	2.21	0.70
1:E:378:LEU:HD13	1:E:401:LEU:HD21	1.73	0.70
1:O:378:LEU:CD1	1:O:401:LEU:HD21	2.21	0.70
1:E:178:ARG:CZ	1:F:200:ARG:HB3	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:K:494:ASN:OD1	1:K:592:ARG:HA	1.91	0.69
1:J:494:ASN:OD1	1:J:592:ARG:HA	1.91	0.69
1:D:494:ASN:OD1	1:D:592:ARG:HA	1.91	0.69
1:L:505:ILE:HD11	1:L:530:ALA:HB2	1.74	0.69
1:L:318:GLY:HA2	1:M:410:TYR:HE1	1.55	0.69
1:F:397:LYS:HD2	1:F:400:GLN:HE22	1.55	0.69
1:M:394:ILE:HG21	1:M:421:LEU:CD2	2.21	0.69
1:E:199:LYS:H	1:E:200:ARG:HD2	1.57	0.69
1:A:308:GLU:OE2	1:B:667:SER:CB	2.40	0.69
1:O:494:ASN:OD1	1:O:592:ARG:HA	1.91	0.69
1:K:505:ILE:HD11	1:K:530:ALA:HB2	1.74	0.69
1:A:505:ILE:HD11	1:A:530:ALA:HB2	1.74	0.69
1:O:505:ILE:HD11	1:O:530:ALA:HB2	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:397:LYS:HE3	1:B:397:LYS:N	1.99	0.69
1:I:236:PHE:O	1:I:240:THR:HG22	1.90	0.69
1:I:199:LYS:H	1:I:200:ARG:HD2	1.57	0.69
1:B:494:ASN:OD1	1:B:592:ARG:HA	1.91	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:F:378:LEU:HD13	1:F:401:LEU:HD21	1.73	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
1:I:378:LEU:CD1	1:I:401:LEU:HD21	2.21	0.69
1:G:397:LYS:HE3	1:G:397:LYS:N	1.99	0.69
1:O:378:LEU:HD13	1:O:401:LEU:HD21	1.73	0.69
1:H:199:LYS:H	1:H:200:ARG:HD2	1.57	0.69
1:B:199:LYS:H	1:B:200:ARG:HD2	1.57	0.69
1:O:481:LEU:H	1:O:482:PRO:CD	2.06	0.69
1:L:481:LEU:H	1:L:482:PRO:CD	2.06	0.69
1:B:481:LEU:H	1:B:482:PRO:CD	2.06	0.69
1:J:226:TRP:CD2	1:K:466:ASN:HB2	2.27	0.69
1:D:659:ARG:HA	1:D:716:THR:O	1.91	0.69
1:G:245:LYS:CE	1:M:512:ASP:OD1	2.41	0.69
1:I:481:LEU:H	1:I:482:PRO:CD	2.06	0.69
1:A:481:LEU:H	1:A:482:PRO:CD	2.06	0.69
1:H:481:LEU:H	1:H:482:PRO:CD	2.06	0.69
1:E:505:ILE:HD11	1:E:530:ALA:HB2	1.74	0.69
1:J:262:VAL:HG11	1:J:379:PRO:HG2	1.75	0.69
1:K:378:LEU:CD1	1:K:401:LEU:HD21	2.21	0.69
1:C:397:LYS:N	1:C:397:LYS:HE3	1.99	0.69
1:O:360:LEU:HD12	1:O:361:ASN:H	1.58	0.69
1:F:199:LYS:H	1:F:200:ARG:HD2	1.57	0.69
1:F:481:LEU:H	1:F:482:PRO:CD	2.06	0.69
1:D:481:LEU:H	1:D:482:PRO:CD	2.06	0.69
1:D:262:VAL:HG11	1:D:379:PRO:HG2	1.75	0.69
1:F:262:VAL:HG11	1:F:379:PRO:HG2	1.75	0.69
1:F:505:ILE:HD11	1:F:530:ALA:HB2	1.74	0.69
1:K:360:LEU:HD12	1:K:361:ASN:H	1.58	0.69
1:M:199:LYS:H	1:M:200:ARG:HD2	1.57	0.69
1:K:481:LEU:H	1:K:482:PRO:CD	2.06	0.69
1:G:471:VAL:HG23	1:M:479:GLU:HG2	1.75	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:M:481:LEU:H	1:M:482:PRO:CD	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:397:LYS:N	1:D:397:LYS:HE3	1.99	0.68
1:A:316:ILE:HD12	1:B:496:LYS:CD	2.22	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:K:316:ILE:HD12	1:L:496:LYS:HD3	1.75	0.68
1:E:366:TYR:CD2	1:E:378:LEU:HD23	2.29	0.68
1:A:366:TYR:CD2	1:A:378:LEU:HD23	2.29	0.68
1:J:481:LEU:H	1:J:482:PRO:CD	2.06	0.68
1:E:262:VAL:HG11	1:E:379:PRO:HG2	1.75	0.68
1:B:505:ILE:HD11	1:B:530:ALA:HB2	1.74	0.68
1:M:505:ILE:HD11	1:M:530:ALA:HB2	1.74	0.68
1:G:262:VAL:HG11	1:G:379:PRO:HG2	1.75	0.68
1:C:366:TYR:CD2	1:C:378:LEU:HD23	2.28	0.68
1:D:378:LEU:HD13	1:D:401:LEU:HD21	1.73	0.68
1:G:481:LEU:H	1:G:482:PRO:CD	2.06	0.68
1:C:481:LEU:H	1:C:482:PRO:CD	2.06	0.68
1:B:262:VAL:HG11	1:B:379:PRO:HG2	1.75	0.68
1:L:366:TYR:CD2	1:L:378:LEU:HD23	2.29	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
1:D:360:LEU:HD12	1:D:361:ASN:H	1.58	0.68
1:L:521:MET:HE2	1:L:522:THR:H	1.59	0.68
1:J:366:TYR:CD2	1:J:378:LEU:HD23	2.29	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: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:K:366:TYR:CD2	1:K:378:LEU:HD23	2.29	0.68
1:D:670:GLN:HG3	1:O:305:GLY:HA2	1.75	0.68
1:K:303:VAL:HG23	1:L:670:GLN:HG2	1.76	0.68
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
1:M:360:LEU:HD12	1:M:361:ASN:H	1.58	0.68
1:L:360:LEU:HD12	1:L:361:ASN:H	1.58	0.68
1:A:360:LEU:HD12	1:A:361:ASN:H	1.58	0.68
1:I:366:TYR:CD2	1:I:378:LEU:HD23	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:318:GLY:HA2	1:I:410:TYR:CD1	2.28	0.68
1:M:366:TYR:CD2	1:M:378:LEU:HD23	2.29	0.68
1:A:199:LYS:H	1:A:200:ARG:HD2	1.57	0.68
1:I:360:LEU:HD12	1:I:361:ASN:H	1.58	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:G:505:ILE:HD11	1:G:530:ALA:HB2	1.74	0.68
1:C:262:VAL:HG11	1:C:379:PRO:HG2	1.75	0.68
1:O:366:TYR:CD2	1:O:378:LEU:HD23	2.28	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:G:305:GLY:HA2	1:H:670:GLN:CG	2.24	0.67
1:F:360:LEU:HD12	1:F:361:ASN:H	1.58	0.67
1:J:360:LEU:HD12	1:J:361:ASN:H	1.58	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:I:401:LEU:HB2	1:I:403:GLN:NE2	2.10	0.67
1:H:366:TYR:CD2	1:H:378:LEU:HD23	2.29	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:L:401:LEU:HB2	1:L:403:GLN:NE2	2.10	0.67
1:F:183:ILE:HG12	1:F:203:LEU:HD21	1.77	0.67
1:M:521:MET:HE3	1:M:521:MET:HA	1.75	0.67
1:M:226:TRP:O	1:M:234:SER:HA	1.95	0.67
1:H:183:ILE:HG12	1:H:203:LEU:HD21	1.77	0.67
1:G:305:GLY:HA2	1:H:670:GLN:HG3	1.75	0.67
1:F:401:LEU:HB2	1:F:403:GLN:NE2	2.10	0.67
1:E:183:ILE:HG12	1:E:203:LEU:HD21	1.77	0.67
1:O:262:VAL:HG11	1:O:379:PRO:HG2	1.75	0.67
1:K:262:VAL:HG11	1:K:379:PRO:HG2	1.75	0.67
1:A:226:TRP:O	1:A:234:SER:HA	1.95	0.67
1:G:366:TYR:CD2	1:G:378:LEU:HD23	2.29	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:M:262:VAL:HG11	1:M:379:PRO:HG2	1.75	0.67
1:H:262:VAL:HG11	1:H:379:PRO:HG2	1.75	0.67
1:A:305:GLY:CA	1:B:670:GLN:HG3	2.24	0.67
1:D:496:LYS:HD3	1:O:316:ILE:CD1	2.25	0.67
1:A:308:GLU:HA	1:B:668:LEU:O	1.95	0.67
1:H:480:VAL:HG21	1:I:468:ARG:CD	2.25	0.67
1:D:183:ILE:HG12	1:D:203:LEU:HD21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:K:183:ILE:HG12	1:K:203:LEU:HD21	1.77	0.67
1:A:262:VAL:HG11	1:A:379:PRO:HG2	1.75	0.67
1:H:401:LEU:HB2	1:H:403:GLN:NE2	2.10	0.67
1:M:401:LEU:HB2	1:M:403:GLN:NE2	2.10	0.67
1:H:226:TRP:O	1:H:234:SER:HA	1.95	0.67
1:J:183:ILE:HG12	1:J:203:LEU:HD21	1.77	0.67
1:K:308:GLU:OE2	1:L:667:SER:OG	2.13	0.67
1:J:266:MET:HA	1:J:364:ILE:HG22	1.77	0.67
1:O:266:MET:HA	1:O:364:ILE:HG22	1.77	0.67
1:L:266:MET:HA	1:L:364:ILE:HG22	1.77	0.67
1:C:266:MET:HA	1:C:364:ILE:HG22	1.77	0.67
1:K:266:MET:HA	1:K:364:ILE:HG22	1.77	0.67
1:M:259:TYR:CZ	1:M:261:ILE:HD11	2.30	0.67
1:H:319:SER:N	1:I:414:LYS:CG	2.50	0.66
1:I:316:ILE:HD12	1:J:496:LYS:HD3	1.76	0.66
1:K:517:THR:HG23	1:L:199:LYS:O	1.95	0.66
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
1:O:259:TYR:CZ	1:O:261:ILE:HD11	2.30	0.66
1:K:226:TRP:O	1:K:234:SER:HA	1.95	0.66
1:J:259:TYR:CZ	1:J:261:ILE:HD11	2.30	0.66
1:F:226:TRP:O	1:F:234:SER:HA	1.95	0.66
1:K:259:TYR:CZ	1:K:261:ILE:HD11	2.30	0.66
1:C:226:TRP:O	1:C:234:SER:HA	1.95	0.66
1:J:319:SER:HA	1:K:414:LYS:HB3	1.76	0.66
1:B:401:LEU:HB2	1:B:403:GLN:NE2	2.10	0.66
1:E:226:TRP:O	1:E:234:SER:HA	1.95	0.66
1:M:266:MET:HA	1:M:364:ILE:HG22	1.77	0.66
1:A:259:TYR:CZ	1:A:261:ILE:HD11	2.31	0.66
1:J:401:LEU:HB2	1:J:403:GLN:NE2	2.10	0.66
1:J:226:TRP:O	1:J:234:SER:HA	1.95	0.66
1:D:259:TYR:CZ	1:D:261:ILE:HD11	2.31	0.66
1:L:226:TRP:O	1:L:234:SER:HA	1.95	0.66
1:B:360:LEU:HD12	1:B:361:ASN:H	1.58	0.66
1:G:312:SER:HA	1:G:315:ASP:OD2	1.96	0.66
1:G:226:TRP:O	1:G:234:SER:HA	1.95	0.66
1:F:259:TYR:CZ	1:F:261:ILE:HD11	2.31	0.66
1:B:226:TRP:O	1:B:234:SER:HA	1.95	0.66
1:L:259:TYR:CZ	1:L:261:ILE:HD11	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:312:SER:HA	1:J:315:ASP:OD2	1.96	0.66
1:G:401:LEU:HB2	1:G:403:GLN:NE2	2.10	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:L:312:SER:HA	1:L:315:ASP:OD2	1.96	0.66
1:J:442:LEU:HD13	1:J:448:LEU:HD21	1.78	0.66
1:E:266:MET:HA	1:E:364:ILE:HG22	1.77	0.66
1:I:226:TRP:O	1:I:234:SER:HA	1.95	0.66
1:O:401:LEU:HB2	1:O:403:GLN:NE2	2.10	0.66
1:O:521:MET:HA	1:O:521:MET:HE3	1.76	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:C:259:TYR:CZ	1:C:261:ILE:HD11	2.30	0.66
1:D:521:MET:HE2	1:D:522:THR:H	1.60	0.66
1:C:442:LEU:HD13	1:C:448:LEU:HD21	1.78	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:F:584:ASN:O	1:F:587:MET:HB2	1.96	0.66
1:O:584:ASN:O	1:O:587:MET:HB2	1.96	0.66
1:C:312:SER:HA	1:C:315:ASP:OD2	1.96	0.66
1:G:316:ILE:HD12	1:H:496:LYS:CD	2.26	0.66
1:A:316:ILE:CD1	1:B:496:LYS:HB3	2.26	0.66
1:D:312:SER:HA	1:D:315:ASP:OD2	1.96	0.66
1:O:183:ILE:HG12	1:O:203:LEU:HD21	1.77	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:B:584:ASN:O	1:B:587:MET:HB2	1.96	0.66
1:G:259:TYR:CZ	1:G:261:ILE:HD11	2.30	0.66
1:D:670:GLN:NE2	1:O:305:GLY:CA	2.59	0.65
1:I:183:ILE:HG12	1:I:203:LEU:HD21	1.77	0.65
1:J:178:ARG:NH1	1:K:200:ARG:HB3	2.10	0.65
1:D:266:MET:HA	1:D:364:ILE:HG22	1.77	0.65
1:G:584:ASN:O	1:G:587:MET:HB2	1.96	0.65
1:O:312:SER:HA	1:O:315:ASP:OD2	1.96	0.65
1:O:226:TRP:O	1:O:234:SER:HA	1.95	0.65
1:K:584:ASN:O	1:K:587:MET:HB2	1.96	0.65
1:M:312:SER:HA	1:M:315:ASP:OD2	1.96	0.65
1:A:183:ILE:HG12	1:A:203:LEU:HD21	1.77	0.65
1:M:584:ASN:O	1:M:587:MET:HB2	1.96	0.65
1:A:312:SER:HA	1:A:315:ASP:OD2	1.96	0.65
1:H:312:SER:HA	1:H:315:ASP:OD2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:266:MET:HA	1:F:364:ILE:HG22	1.77	0.65
1:D:226:TRP:O	1:D:234:SER:HA	1.95	0.65
1:G:178:ARG:NH1	1:H:200:ARG:HB3	2.11	0.65
1:A:521:MET:HE2	1:A:522:THR:H	1.60	0.65
1:L:442:LEU:HD13	1:L:448:LEU:HD21	1.78	0.65
1:A:442:LEU:HD13	1:A:448:LEU:HD21	1.78	0.65
1:E:584:ASN:O	1:E:587:MET:HB2	1.96	0.65
1:M:635:ILE:O	1:M:638:ILE:HG12	1.97	0.65
1:C:596:PHE:HD2	1:C:638:ILE:HD13	1.62	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:F:596:PHE:HD2	1:F:638:ILE:HD13	1.62	0.65
1:A:596:PHE:HD2	1:A:638:ILE:HD13	1.62	0.65
1:A:266:MET:HA	1:A:364:ILE:HG22	1.77	0.65
1:F:541:GLN:HB2	1:F:545:LYS:O	1.97	0.65
1:G:266:MET:HA	1:G:364:ILE:HG22	1.77	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:J:541:GLN:HB2	1:J:545:LYS:O	1.97	0.65
1:D:635:ILE:O	1:D:638:ILE:HG12	1.97	0.65
1:I:635:ILE:O	1:I:638:ILE:HG12	1.97	0.65
1:H:596:PHE:HD2	1:H:638:ILE:HD13	1.62	0.65
1:O:635:ILE:O	1:O:638:ILE:HG12	1.97	0.65
1:I:541:GLN:HB2	1:I:545:LYS:O	1.97	0.65
1:E:541:GLN:HB2	1:E:545:LYS:O	1.97	0.65
1:I:584:ASN:O	1:I:587:MET:HB2	1.96	0.65
1:G:442:LEU:HD13	1:G:448:LEU:HD21	1.78	0.65
1:F:312:SER:HA	1:F:315:ASP:OD2	1.96	0.65
1:J:521:MET:HE2	1:J:522:THR:H	1.60	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:584:ASN:O	1:A:587:MET:HB2	1.96	0.65
1:I:266:MET:HA	1:I: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:F:635:ILE:O	1:F:638:ILE:HG12	1.97	0.65
1:G:635:ILE:O	1:G:638:ILE:HG12	1.97	0.65
1:D:541:GLN:HB2	1:D:545:LYS:O	1.97	0.65
1:B:266:MET:HA	1:B:364:ILE:HG22	1.77	0.65
1:E:442:LEU:HD13	1:E:448:LEU:HD21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:266:MET:HA	1:H:364:ILE:HG22	1.77	0.65
1:D:584:ASN:O	1:D:587:MET:HB2	1.96	0.65
1:A:541:GLN:HB2	1:A:545:LYS:O	1.97	0.65
1:L:313:PHE:HA	1:L:319:SER:HB2	1.79	0.64
1:E:596:PHE:HD2	1:E:638:ILE:HD13	1.62	0.64
1:H:657:ASN:HB2	1:H:662:MET:HB3	1.80	0.64
1:C:584:ASN:O	1:C:587:MET:HB2	1.96	0.64
1:M:442:LEU:HD13	1:M:448:LEU:HD21	1.78	0.64
1:H:541:GLN:HB2	1:H:545:LYS:O	1.97	0.64
1:M:313:PHE:HA	1:M:319:SER:HB2	1.79	0.64
1:J:313:PHE:HA	1:J:319:SER:HB2	1.79	0.64
1:C:183:ILE:HG12	1:C:203:LEU:HD21	1.77	0.64
1:D:200:ARG:HB3	1:O:178:ARG:NH1	2.12	0.64
1:K:635:ILE:O	1:K:638:ILE:HG12	1.97	0.64
1:C:635:ILE:O	1:C:638:ILE:HG12	1.97	0.64
1:G:596:PHE:HD2	1:G:638:ILE:HD13	1.62	0.64
1:B:596:PHE:HD2	1:B:638:ILE:HD13	1.62	0.64
1:I:442:LEU:HD13	1:I:448:LEU:HD21	1.78	0.64
1:C:314:PHE:CE2	1:O:672:GLY:HA2	2.33	0.64
1:B:312:SER:HA	1:B:315:ASP:OD2	1.96	0.64
1:M:541:GLN:HB2	1:M:545:LYS:O	1.97	0.64
1:E:312:SER:HA	1:E:315:ASP:OD2	1.96	0.64
1:L:635:ILE:O	1:L:638:ILE:HG12	1.97	0.64
1:L:541:GLN:HB2	1:L:545:LYS:O	1.97	0.64
1:J:657:ASN:HB2	1:J:662:MET:HB3	1.80	0.64
1:L:305:GLY:HA3	1:M:670:GLN:HE21	1.57	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:O:596:PHE:HD2	1:O:638:ILE:HD13	1.62	0.64
1:K:442:LEU:HD13	1:K:448:LEU:HD21	1.78	0.64
1:G:541:GLN:HB2	1:G:545:LYS:O	1.97	0.64
1:H:313:PHE:HA	1:H:319:SER:HB2	1.79	0.64
1:B:183:ILE:HG12	1:B:203:LEU:HD21	1.77	0.64
1:C:541:GLN:HB2	1:C:545:LYS:O	1.97	0.64
1:K:404:ILE:N	1:K:404:ILE:HD12	2.13	0.64
1:B:657:ASN:HB2	1:B:662:MET:HB3	1.80	0.64
1:H:442:LEU:HD13	1:H:448:LEU:HD21	1.78	0.64
1:D:200:ARG:HB3	1:O:178:ARG:HH12	1.61	0.64
1:L:596:PHE:HD2	1:L:638:ILE:HD13	1.62	0.64
1:G:313:PHE:HA	1:G:319:SER:HB2	1.79	0.64
1:A:404:ILE:HD12	1:A:404:ILE:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:404:ILE:N	1:O:404:ILE:HD12	2.13	0.64
1:I:404:ILE:N	1:I:404:ILE:HD12	2.13	0.64
1:C:657:ASN:HB2	1:C:662:MET:HB3	1.80	0.64
1:K:541:GLN:HB2	1:K:545:LYS:O	1.97	0.64
1:I:657:ASN:HB2	1:I:662:MET:HB3	1.80	0.64
1:K:657:ASN:HB2	1:K:662:MET:HB3	1.80	0.64
1:B:442:LEU:HD13	1:B:448:LEU:HD21	1.78	0.64
1:E:319:SER:H	1:F:414:LYS:HG3	1.63	0.64
1:A:635:ILE:O	1:A:638:ILE:HG12	1.97	0.64
1:O:442:LEU:HD13	1:O:448:LEU:HD21	1.78	0.64
1:M:657:ASN:HB2	1:M:662:MET:HB3	1.79	0.64
1:G:404:ILE:HD12	1:G:404:ILE:N	2.13	0.64
1:F:442:LEU:HD13	1:F:448:LEU:HD21	1.78	0.64
1:D:442:LEU:HD13	1:D:448:LEU:HD21	1.78	0.64
1:B:313:PHE:HA	1:B:319:SER:HB2	1.79	0.64
1:O:313:PHE:HA	1:O:319:SER:HB2	1.79	0.64
1:I:521:MET:HA	1:I:521:MET:HE3	1.80	0.64
1:I:596:PHE:HD2	1:I:638:ILE:HD13	1.62	0.64
1:B:404:ILE:N	1:B:404:ILE:HD12	2.13	0.64
1:J:404:ILE:N	1:J:404:ILE:HD12	2.13	0.64
1:E:313:PHE:HA	1:E:319:SER:HB2	1.79	0.64
1:G:521:MET:HE2	1:G:522:THR:H	1.62	0.64
1:E:635:ILE:O	1:E:638:ILE:HG12	1.97	0.64
1:H:319:SER:OG	1:I:414:LYS:HE3	1.98	0.64
1:D:596:PHE:HD2	1:D:638:ILE:HD13	1.62	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:D:404:ILE:HD12	1:D:404:ILE:N	2.13	0.64
1:A:178:ARG:NH1	1:B:200:ARG:HB3	2.12	0.63
1:K:313:PHE:HA	1:K:319:SER:HB2	1.79	0.63
1:O:584:ASN:H	1:O:587:MET:CE	2.11	0.63
1:B:541:GLN:HB2	1:B:545:LYS:O	1.97	0.63
1:F:404:ILE:N	1:F:404:ILE:HD12	2.13	0.63
1:E:365:ARG:NH1	1:E:414:LYS:HD3	2.14	0.63
1:B:360:LEU:O	1:B:432:ILE:HD12	1.99	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
1:A:584:ASN:H	1:A:587:MET:CE	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:723:LYS:H	1:A:723:LYS:HD3	1.64	0.63
1:M:365:ARG:NH1	1:M:414:LYS:HD3	2.14	0.63
1:D:313:PHE:HA	1:D:319:SER:HB2	1.79	0.63
1:J:222:SER:HB2	1:J:518:LYS:HA	1.81	0.63
1:G:468:ARG:CG	1:M:480:VAL:HG21	2.28	0.63
1:G:484:ILE:H	1:G:484:ILE:HD12	1.64	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:K:723:LYS:HD3	1:K:723:LYS:H	1.64	0.63
1:E:404:ILE:N	1:E:404:ILE:HD12	2.13	0.63
1:E:723:LYS:HD3	1:E:723:LYS:H	1.64	0.63
1:L:365:ARG:NH1	1:L:414:LYS:HD3	2.14	0.63
1:L:360:LEU:O	1:L:432:ILE:HD12	1.99	0.63
1:J:584:ASN:H	1:J:587:MET:CE	2.11	0.63
1:H:404:ILE:N	1:H:404:ILE:HD12	2.13	0.63
1:D:657:ASN:HB2	1:D:662:MET:HB3	1.80	0.63
1:C:313:PHE:HA	1:C:319:SER:HB2	1.79	0.63
1:C:723:LYS:HD3	1:C:723:LYS:H	1.64	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:B:635:ILE:O	1:B:638:ILE:HG12	1.97	0.63
1:L:484:ILE:HD12	1:L:484:ILE:H	1.64	0.63
1:D:584:ASN:H	1:D:587:MET:CE	2.11	0.63
1:E:657:ASN:HB2	1:E:662:MET:HB3	1.80	0.63
1:K:365:ARG:NH1	1:K:414:LYS:HD3	2.14	0.63
1:B:222:SER:HB2	1:B:518:LYS:HA	1.81	0.63
1:K:360:LEU:O	1:K:432:ILE:HD12	1.99	0.63
1:M:360:LEU:O	1:M:432:ILE:HD12	1.99	0.63
1:O:360:LEU:O	1:O:432:ILE:HD12	1.99	0.63
1:A:360:LEU:O	1:A:432:ILE:HD12	1.99	0.63
1:K:484:ILE:HD12	1:K:484:ILE:H	1.64	0.63
1:C:226:TRP:CZ2	1:C:234:SER:HB3	2.34	0.63
1:B:584:ASN:H	1:B:587:MET:CE	2.11	0.63
1:M:584:ASN:H	1:M:587:MET:CE	2.11	0.63
1:A:313:PHE:HA	1:A:319:SER:HB2	1.79	0.63
1:G:365:ARG:NH1	1:G:414:LYS:HD3	2.14	0.63
1:C:222:SER:HB2	1:C:518:LYS:HA	1.81	0.63
1:D:365:ARG:NH1	1:D:414:LYS:HD3	2.14	0.63
1:J:484:ILE:H	1:J:484:ILE:HD12	1.64	0.63
1:C:305:GLY:HA2	1:O:670:GLN:HE21	1.62	0.63
1:F:226:TRP:CZ2	1:F:234:SER:HB3	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:414:LYS:CG	1:M:319:SER:CA	2.76	0.63
1:J:365:ARG:NH1	1:J:414:LYS:HD3	2.14	0.63
1:D:365:ARG:HB3	1:D:412:PRO:CG	2.29	0.63
1:D:360:LEU:O	1:D:432:ILE:HD12	1.99	0.63
1:B:226:TRP:CZ2	1:B:234:SER:HB3	2.34	0.63
1:O:723:LYS:H	1:O:723:LYS:HD3	1.64	0.63
1:F:657:ASN:HB2	1:F:662:MET:HB3	1.80	0.63
1:F:365:ARG:HB3	1:F:412:PRO:CG	2.29	0.62
1:O:365:ARG:NH1	1:O:414:LYS:HD3	2.14	0.62
1:I:360:LEU:O	1:I:432:ILE:HD12	1.99	0.62
1:E:224:GLU:OE2	1:F:201:THR:N	2.32	0.62
1:M:484:ILE:H	1:M:484:ILE:HD12	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:H:584:ASN:H	1:H:587:MET:CE	2.11	0.62
1:O:226:TRP:CZ2	1:O:234:SER:HB3	2.34	0.62
1:M:404:ILE:HD12	1:M:404:ILE:N	2.13	0.62
1:I:723:LYS:H	1:I:723:LYS:HD3	1.64	0.62
1:M:398:GLU:C	1:M:400:GLN:H	2.03	0.62
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:HD12	1:F:484:ILE:H	1.64	0.62
1:E:226:TRP:CZ2	1:E:234:SER:HB3	2.34	0.62
1:G:657:ASN:HB2	1:G:662:MET:HB3	1.80	0.62
1:G:365:ARG:HB3	1:G:412:PRO:CG	2.29	0.62
1:I:365:ARG:NH1	1:I:414:LYS:HD3	2.14	0.62
1:H:365:ARG:NH1	1:H:414:LYS:HD3	2.14	0.62
1:L:365:ARG:HB3	1:L:412:PRO:CG	2.29	0.62
1:F:179:ASP:HB3	1:F:223:PRO:O	2.00	0.62
1:E:365:ARG:HB3	1:E:412:PRO:CG	2.29	0.62
1:A:365:ARG:HB3	1:A:412:PRO:CG	2.29	0.62
1:L:179:ASP:HB3	1:L:223:PRO:O	2.00	0.62
1:D:239:VAL:O	1:O:513:PRO:HG2	1.99	0.62
1:J:226:TRP:CZ2	1:J:234:SER:HB3	2.34	0.62
1:I:226:TRP:CZ2	1:I:234:SER:HB3	2.34	0.62
1:D:226:TRP:CZ2	1:D:234:SER:HB3	2.34	0.62
1:E:584:ASN:H	1:E:587:MET:CE	2.11	0.62
1:B:723:LYS:H	1:B:723:LYS:HD3	1.64	0.62
1:F:206:TRP:CZ3	1:F:211:HIS:HB3	2.34	0.62
1:B:179:ASP:HB3	1:B:223:PRO:O	2.00	0.62
1:F:360:LEU:O	1:F:432:ILE:HD12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:605:VAL:CG1	1:M:704:GLU:HB3	2.30	0.62
1:K:605:VAL:CG1	1:K:704:GLU:HB3	2.30	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:L:657:ASN:HB2	1:L:662:MET:HB3	1.80	0.62
1:M:179:ASP:HB3	1:M:223:PRO:O	2.00	0.62
1:A:365:ARG:NH1	1:A:414:LYS:HD3	2.14	0.62
1:C:360:LEU:O	1:C:432:ILE:HD12	1.99	0.62
1:I:179:ASP:HB3	1:I:223:PRO:O	2.00	0.62
1:A:484:ILE:H	1:A:484:ILE:HD12	1.64	0.62
1:I:259:TYR:H	1:I:259:TYR:HD2	1.48	0.62
1:C:404:ILE:HD12	1:C:404:ILE:N	2.13	0.62
1:E:206:TRP:CZ3	1:E:211:HIS:HB3	2.34	0.62
1:I:365:ARG:HB3	1:I:412:PRO:CG	2.29	0.62
1:C:179:ASP:HB3	1:C:223:PRO:O	2.00	0.62
1:M:365:ARG:HB3	1:M:412:PRO:CG	2.29	0.62
1:B:319:SER:HA	1:C:414:LYS:HB3	1.80	0.62
1:A:398:GLU:C	1:A:400:GLN:H	2.03	0.62
1:I:316:ILE:HD12	1:J:496:LYS:CB	2.28	0.62
1:J:365:ARG:HB3	1:J:412:PRO:CG	2.29	0.62
1:M:222:SER:HB2	1:M:518:LYS:HA	1.81	0.62
1:O:365:ARG:HB3	1:O:412:PRO:CG	2.29	0.62
1:D:517:THR:HG23	1:E:199:LYS:O	1.99	0.62
1:C:336:HIS:CB	1:C:708:ILE:HG22	2.30	0.62
1:L:404:ILE:HD12	1:L:404:ILE:N	2.13	0.62
1:H:206:TRP:CZ3	1:H:211:HIS:HB3	2.34	0.62
1:H:365:ARG:HB3	1:H:412:PRO:CG	2.29	0.62
1:K:398:GLU:C	1:K:400:GLN:H	2.03	0.62
1:F:398:GLU:C	1:F:400:GLN:H	2.03	0.62
1:M:226:TRP:CZ2	1:M:234:SER:HB3	2.34	0.62
1:I:484:ILE:H	1:I:484:ILE:HD12	1.64	0.62
1:H:605:VAL:CG1	1:H:704:GLU:HB3	2.30	0.62
1:J:605:VAL:CG1	1:J:704:GLU:HB3	2.30	0.62
1:D:605:VAL:CG1	1:D:704:GLU:HB3	2.30	0.62
1:K:259:TYR:HD2	1:K:259:TYR:H	1.48	0.62
1:G:226:TRP:CZ2	1:G:234:SER:HB3	2.34	0.62
1:J:336:HIS:CB	1:J:708:ILE:HG22	2.30	0.62
1:E:336:HIS:CB	1:E:708:ILE:HG22	2.30	0.62
1:I:336:HIS:CB	1:I:708:ILE:HG22	2.30	0.62
1:J:723:LYS:HD3	1:J:723:LYS:H	1.64	0.62
1:K:365:ARG:HB3	1:K:412:PRO:CG	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:398:GLU:C	1:G:400:GLN:H	2.03	0.62
1:J:398:GLU:C	1:J:400:GLN:H	2.03	0.62
1:J:360:LEU:O	1:J:432:ILE:HD12	1.99	0.62
1:A:222:SER:HB2	1:A:518:LYS:HA	1.81	0.62
1:J:178:ARG:HH12	1:K:200:ARG:HB3	1.65	0.62
1:A:259:TYR:H	1:A:259:TYR:HD2	1.48	0.62
1:D:723:LYS:H	1:D:723:LYS:HD3	1.64	0.62
1:G:206:TRP:CZ3	1:G:211:HIS:HB3	2.34	0.62
1:M:723:LYS:HD3	1:M:723:LYS:H	1.64	0.62
1:G:723:LYS:H	1:G:723:LYS:HD3	1.64	0.62
1:A:336:HIS:CB	1:A:708:ILE:HG22	2.30	0.62
1:G:336:HIS:CB	1:G:708:ILE:HG22	2.30	0.62
1:H:179:ASP:HB3	1:H:223:PRO:O	2.00	0.62
1:G:360:LEU:O	1:G:432:ILE:HD12	1.99	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:A:226:TRP:CZ2	1:A:234:SER:HB3	2.34	0.62
1:E:259:TYR:HD2	1:E:259:TYR:H	1.48	0.62
1:D:336:HIS:CB	1:D:708:ILE:HG22	2.30	0.62
1:M:206:TRP:CZ3	1:M:211:HIS:HB3	2.34	0.62
1:O:206:TRP:CZ3	1:O:211:HIS:HB3	2.34	0.62
1:M:336:HIS:CB	1:M:708:ILE:HG22	2.30	0.62
1:L:723:LYS:HD3	1:L:723:LYS:H	1.64	0.62
1:D:206:TRP:CZ3	1:D:211:HIS:HB3	2.34	0.62
1:B:336:HIS:CB	1:B:708:ILE:HG22	2.30	0.62
1:B:365:ARG:HB3	1:B:412:PRO:CG	2.29	0.62
1:O:222:SER:HB2	1:O:518:LYS:HA	1.81	0.62
1:E:179:ASP:HB3	1:E:223:PRO:O	2.00	0.62
1:K:178:ARG:NH1	1:L:200:ARG:HB3	2.15	0.62
1:J:179:ASP:HB3	1:J:223:PRO:O	2.00	0.62
1:O:484:ILE:H	1:O:484:ILE:HD12	1.64	0.62
1:B:605:VAL:CG1	1:B:704:GLU:HB3	2.30	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:H:336:HIS:CB	1:H:708:ILE:HG22	2.30	0.62
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:L:336:HIS:CB	1:L:708:ILE:HG22	2.30	0.61
1:F:336:HIS:CB	1:F:708:ILE:HG22	2.30	0.61
1:K:336:HIS:CB	1:K:708:ILE:HG22	2.30	0.61
1:K:206:TRP:CZ3	1:K:211:HIS:HB3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:398:GLU:C	1:B:400:GLN:H	2.03	0.61
1:C:365:ARG:NH1	1:C:414:LYS:HD3	2.14	0.61
1:H:243:ILE:CG1	1:H:244:ASP:N	2.63	0.61
1:B:365:ARG:NH1	1:B:414:LYS:HD3	2.14	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:H:226:TRP:CZ2	1:H:234:SER:HB3	2.34	0.61
1:H:484:ILE:H	1:H:484:ILE:HD12	1.64	0.61
1:D:484:ILE:H	1:D:484:ILE:HD12	1.64	0.61
1:G:605:VAL:CG1	1:G:704:GLU:HB3	2.30	0.61
1:E:605:VAL:CG1	1:E:704:GLU:HB3	2.30	0.61
1:C:259:TYR:H	1:C:259:TYR:HD2	1.48	0.61
1:M:374:ILE:HD12	1:M:405:LEU:HD23	1.83	0.61
1:C:206:TRP:CZ3	1:C:211:HIS:HB3	2.34	0.61
1:I:498:LEU:HB3	1:I:604:ALA:HB2	1.82	0.61
1:B:515:GLU:OE2	1:B:518:LYS:HD2	2.01	0.61
1:E:360:LEU:O	1:E:432:ILE:HD12	1.99	0.61
1:O:515:GLU:OE2	1:O:518:LYS:HD2	2.01	0.61
1:B:498:LEU:HB3	1:B:604:ALA:HB2	1.82	0.61
1:H:723:LYS:HD3	1:H:723:LYS:H	1.64	0.61
1:L:206:TRP:CZ3	1:L:211:HIS:HB3	2.34	0.61
1:L:498:LEU:HB3	1:L:604:ALA:HB2	1.82	0.61
1:F:337:SER:OG	1:F:664:ASN:HB2	2.01	0.61
1:H:374:ILE:HD12	1:H:405:LEU:HD23	1.83	0.61
1:D:302:GLU:HG3	1:D:323:GLY:HA2	1.83	0.61
1:C:515:GLU:OE2	1:C:518:LYS:HD2	2.01	0.61
1:H:398:GLU:C	1:H:400:GLN:H	2.03	0.61
1:I:398:GLU:C	1:I:400:GLN:H	2.03	0.61
1:K:222:SER:HB2	1:K:518:LYS:HA	1.81	0.61
1:L:259:TYR:H	1:L:259:TYR:HD2	1.48	0.61
1:G:259:TYR:HD2	1:G:259:TYR:H	1.48	0.61
1:D:337:SER:OG	1:D:664:ASN:HB2	2.01	0.61
1:B:337:SER:OG	1:B:664:ASN:HB2	2.01	0.61
1:J:374:ILE:HD12	1:J:405:LEU:HD23	1.83	0.61
1:H:319:SER:HA	1:I:414:LYS:HB3	1.80	0.61
1:C:398:GLU:C	1:C:400:GLN:H	2.03	0.61
1:C:365:ARG:HB3	1:C:412:PRO:CG	2.29	0.61
1:F:243:ILE:CG1	1:F:244:ASP:N	2.64	0.61
1:A:179:ASP:HB3	1:A:223:PRO:O	2.00	0.61
1:D:179:ASP:HB3	1:D:223:PRO:O	2.00	0.61
1:J:515:GLU:OE2	1:J:518:LYS:HD2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:515:GLU:OE2	1:L:518:LYS:HD2	2.01	0.61
1:O:259:TYR:HD2	1:O:259:TYR:H	1.48	0.61
1:E:374:ILE:HD12	1:E:405:LEU:HD23	1.83	0.61
1:F:723:LYS:HD3	1:F:723:LYS:H	1.64	0.61
1:K:374:ILE:HD12	1:K:405:LEU:HD23	1.83	0.61
1:K:302:GLU:HG3	1:K:323:GLY:HA2	1.83	0.61
1:A:305:GLY:HA3	1:B:670:GLN:NE2	2.13	0.61
1:K:316:ILE:CD1	1:L:496:LYS:CB	2.72	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:C:374:ILE:HD12	1:C:405:LEU:HD23	1.83	0.61
1:E:398:GLU:C	1:E:400:GLN:H	2.03	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:M:207:ILE:HB	1:M:211:HIS:CD2	2.36	0.61
1:B:207:ILE:HB	1:B:211:HIS:CD2	2.36	0.61
1:C:207:ILE:HB	1:C:211:HIS:CD2	2.36	0.61
1:L:207:ILE:HB	1:L:211:HIS:CD2	2.36	0.61
1:E:302:GLU:HG3	1:E:323:GLY:HA2	1.83	0.61
1:G:302:GLU:HG3	1:G:323:GLY:HA2	1.83	0.61
1:M:302:GLU:HG3	1:M:323:GLY:HA2	1.83	0.61
1:I:206:TRP:CZ3	1:I:211:HIS:HB3	2.34	0.61
1:B:374:ILE:HD12	1:B:405:LEU:HD23	1.83	0.61
1:A:206:TRP:CZ3	1:A:211:HIS:HB3	2.34	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:K:515:GLU:OE2	1:K:518:LYS:HD2	2.01	0.61
1:E:484:ILE:HD12	1:E:484:ILE:H	1.64	0.61
1:A:605:VAL:CG1	1:A:704:GLU:HB3	2.30	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:F:207:ILE:HB	1:F:211:HIS:CD2	2.36	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:337:SER:OG	1:A:664:ASN:HB2	2.01	0.61
1:C:189:VAL:CG1	1:O:199:LYS:HG3	2.28	0.61
1:I:243:ILE:CG1	1:I:244:ASP:N	2.63	0.61
1:G:264:VAL:HG21	1:G:381:THR:HG21	1.83	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:K:521:MET:HE2	1:K:522:THR:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:337:SER:OG	1:C:664:ASN:HB2	2.01	0.61
1:J:512:ASP:OD1	1:K:245:LYS:HE3	2.01	0.61
1:J:314:PHE:HZ	1:K:670:GLN:C	2.04	0.61
1:C:484:ILE:HD12	1:C:484:ILE:H	1.64	0.61
1:O:605:VAL:CG1	1:O:704:GLU:HB3	2.30	0.61
1:F:498:LEU:HB3	1:F:604:ALA:HB2	1.83	0.61
1:F:264:VAL:HG21	1:F:381:THR:HG21	1.83	0.60
1:O:243:ILE:CG1	1:O:244:ASP:N	2.63	0.60
1:M:264:VAL:HG21	1:M:381:THR:HG21	1.83	0.60
1:M:515:GLU:OE2	1:M:518:LYS:HD2	2.01	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:O:260:PRO:HG3	1:O:372:ALA:HB3	1.83	0.60
1:C:605:VAL:CG1	1:C:704:GLU:HB3	2.30	0.60
1:A:670:GLN:HE21	1:F:305:GLY:HA2	1.66	0.60
1:M:498:LEU:HB3	1:M:604:ALA:HB2	1.83	0.60
1:J:207:ILE:HB	1:J:211:HIS:CD2	2.36	0.60
1:O:207:ILE:HB	1:O:211:HIS:CD2	2.36	0.60
1:H:368:ASN:ND2	1:H:407:PRO:HA	2.16	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:L:398:GLU:C	1:L:400:GLN:H	2.03	0.60
1:E:264:VAL:HG21	1:E:381:THR:HG21	1.83	0.60
1:M:260:PRO:HG3	1:M:372:ALA:HB3	1.83	0.60
1:L:555:ASP:OD2	1:L:588:ASN:HB2	2.02	0.60
1:E:207:ILE:HB	1:E:211:HIS:CD2	2.36	0.60
1:D:207:ILE:HB	1:D:211:HIS:CD2	2.36	0.60
1:G:498:LEU:HB3	1:G:604:ALA:HB2	1.83	0.60
1:J:302:GLU:HG3	1:J:323:GLY:HA2	1.83	0.60
1:C:302:GLU:HG3	1:C:323:GLY:HA2	1.83	0.60
1:O:337:SER:OG	1:O:664:ASN:HB2	2.01	0.60
1:D:398:GLU:C	1:D:400:GLN:H	2.03	0.60
1:O:398:GLU:C	1:O:400:GLN:H	2.03	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:G:224:GLU:OE2	1:H:201:THR:HG23	2.01	0.60
1:E:224:GLU:HB2	1:E:517:THR:HG21	1.83	0.60
1:L:178:ARG:HH12	1:M:200:ARG:HB3	1.65	0.60
1:B:555:ASP:OD2	1:B:588:ASN:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:368:ASN:ND2	1:M:407:PRO:HA	2.16	0.60
1:E:368:ASN:ND2	1:E:407:PRO:HA	2.17	0.60
1:A:207:ILE:HB	1:A:211:HIS:CD2	2.36	0.60
1:G:337:SER:OG	1:G:664:ASN:HB2	2.01	0.60
1:A:498:LEU:HB3	1:A:604:ALA:HB2	1.83	0.60
1:L:337:SER:OG	1:L:664:ASN:HB2	2.01	0.60
1:O:264:VAL:HG21	1:O:381:THR:HG21	1.83	0.60
1:A:243:ILE:CG1	1:A:244:ASP:N	2.64	0.60
1:C:243:ILE:CG1	1:C:244:ASP:N	2.63	0.60
1:I:264:VAL:HG21	1:I:381:THR:HG21	1.83	0.60
1:M:224:GLU:HB2	1:M:517:THR:HG21	1.83	0.60
1:D:414:LYS:HG3	1:O:319:SER:H	1.65	0.60
1:B:224:GLU:HB2	1:B:517:THR:HG21	1.83	0.60
1:G:224:GLU:HB2	1:G:517:THR:HG21	1.83	0.60
1:A:423:ALA:C	1:A:424:GLN:HG3	2.22	0.60
1:A:260:PRO:HG3	1:A:372:ALA:HB3	1.83	0.60
1:H:207:ILE:HB	1:H:211:HIS:CD2	2.36	0.60
1:G:207:ILE:HB	1:G:211:HIS:CD2	2.36	0.60
1:K:368:ASN:ND2	1:K:407:PRO:HA	2.16	0.60
1:I:207:ILE:HB	1:I:211:HIS:CD2	2.36	0.60
1:J:337:SER:OG	1:J:664:ASN:HB2	2.01	0.60
1:G:368:ASN:ND2	1:G:407:PRO:HA	2.16	0.60
1:H:337:SER:OG	1:H:664:ASN:HB2	2.01	0.60
1:I:374:ILE:HD12	1:I:405:LEU:HD23	1.83	0.60
1:D:374:ILE:HD12	1:D:405:LEU:HD23	1.83	0.60
1:K:423:ALA:C	1:K:424:GLN:HG3	2.22	0.60
1:L:516:THR:CG2	1:M:196:VAL:HG21	2.30	0.60
1:E:260:PRO:HG3	1:E:372:ALA:HB3	1.83	0.60
1:B:259:TYR:HD2	1:B:259:TYR:H	1.48	0.60
1:H:260:PRO:HG3	1:H:372:ALA:HB3	1.83	0.60
1:L:605:VAL:CG1	1:L:704:GLU:HB3	2.30	0.60
1:J:259:TYR:HD2	1:J:259:TYR:H	1.48	0.60
1:J:555:ASP:OD2	1:J:588:ASN:HB2	2.01	0.60
1:L:368:ASN:ND2	1:L:407:PRO:HA	2.16	0.60
1:O:374:ILE:HD12	1:O:405:LEU:HD23	1.83	0.60
1:E:337:SER:OG	1:E:664:ASN:HB2	2.01	0.60
1:I:337:SER:OG	1:I:664:ASN:HB2	2.01	0.60
1:D:264:VAL:HG21	1:D:381:THR:HG21	1.83	0.60
1:C:264:VAL:HG21	1:C:381:THR:HG21	1.83	0.60
1:O:179:ASP:HB3	1:O:223:PRO:O	2.00	0.60
1:A:515:GLU:OE2	1:A:518:LYS:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:PRO:HG3	1:I:372:ALA:HB3	1.83	0.60
1:F:260:PRO:HG3	1:F:372:ALA:HB3	1.83	0.60
1:H:555:ASP:OD2	1:H:588:ASN:HB2	2.02	0.60
1:E:555:ASP:OD2	1:E:588:ASN:HB2	2.01	0.60
1:K:498:LEU:HB3	1:K:604:ALA:HB2	1.83	0.60
1:D:548:THR:HA	1:D:575:TYR:CE1	2.37	0.60
1:F:374:ILE:HD12	1:F:405:LEU:HD23	1.82	0.60
1:H:319:SER:N	1:I:414:LYS:HE3	2.16	0.60
1:C:188:GLU:HA	1:C:192:TYR:CE2	2.37	0.60
1:H:515:GLU:OE2	1:H:518:LYS:HD2	2.01	0.60
1:D:243:ILE:CG1	1:D:244:ASP:N	2.63	0.60
1:L:264:VAL:HG21	1:L:381:THR:HG21	1.83	0.60
1:G:188:GLU:HA	1:G:192:TYR:CE2	2.37	0.60
1:J:224:GLU:HB2	1:J:517:THR:HG21	1.83	0.60
1:I:188:GLU:HA	1:I:192:TYR:CE2	2.37	0.60
1:F:605:VAL:CG1	1:F:704:GLU:HB3	2.30	0.60
1:D:259:TYR:HD2	1:D:259:TYR:H	1.48	0.60
1:O:555:ASP:OD2	1:O:588:ASN:HB2	2.01	0.60
1:A:555:ASP:OD2	1:A:588:ASN:HB2	2.02	0.60
1:G:721:ILE:HG22	1:G:722:LYS:N	2.17	0.60
1:O:498:LEU:HB3	1:O:604:ALA:HB2	1.83	0.60
1:L:548:THR:HA	1:L:575:TYR:CE1	2.37	0.60
1:A:305:GLY:HA3	1:B:670:GLN:HE21	1.65	0.60
1:H:264:VAL:HG21	1:H:381:THR:HG21	1.83	0.60
1:F:224:GLU:HB2	1:F:517:THR:HG21	1.83	0.60
1:M:423:ALA:C	1:M:424:GLN:HG3	2.22	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:H:188:GLU:HA	1:H:192:TYR:CE2	2.37	0.60
1:A:188:GLU:HA	1:A:192:TYR:CE2	2.37	0.60
1:M:259:TYR:HD2	1:M:259:TYR:H	1.48	0.60
1:F:536:PRO:HG2	1:F:541:GLN:OE1	2.02	0.60
1:A:536:PRO:HG2	1:A:541:GLN:OE1	2.02	0.60
1:L:536:PRO:HG2	1:L:541:GLN:OE1	2.02	0.60
1:J:368:ASN:ND2	1:J:407:PRO:HA	2.16	0.60
1:B:368:ASN:ND2	1:B:407:PRO:HA	2.16	0.60
1:G:374:ILE:HD12	1:G:405:LEU:HD23	1.82	0.60
1:B:291:LYS:HE2	1:B:339:SER:HB2	1.84	0.60
1:I:302:GLU:HG3	1:I:323:GLY:HA2	1.83	0.60
1:B:548:THR:HA	1:B:575:TYR:CE1	2.37	0.60
1:F:548:THR:HA	1:F:575:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:423:ALA:C	1:I:424:GLN:HG3	2.22	0.60
1:B:423:ALA:C	1:B:424:GLN:HG3	2.22	0.60
1:H:423:ALA:C	1:H:424:GLN:HG3	2.22	0.60
1:B:260:PRO:HG3	1:B:372:ALA:HB3	1.83	0.60
1:F:555:ASP:OD2	1:F:588:ASN:HB2	2.01	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:D:555:ASP:OD2	1:D:588:ASN:HB2	2.02	0.60
1:J:291:LYS:HE2	1:J:339:SER:HB2	1.84	0.60
1:G:548:THR:HA	1:G:575:TYR:CE1	2.37	0.60
1:J:721:ILE:HG22	1:J:722:LYS:N	2.17	0.60
1:H:498:LEU:HB3	1:H:604:ALA:HB2	1.82	0.60
1:J:403:GLN:N	1:J:403:GLN:NE2	2.47	0.60
1:L:243:ILE:CG1	1:L:244:ASP:N	2.63	0.60
1:A:224:GLU:HB2	1:A:517:THR:HG21	1.83	0.60
1:G:524:LYS:HG3	1:G:540:LEU:HD22	1.84	0.60
1:L:524:LYS:HG3	1:L:540:LEU:HD22	1.84	0.60
1:E:524:LYS:HG3	1:E:540:LEU:HD22	1.84	0.60
1:O:188:GLU:HA	1:O:192:TYR:CE2	2.37	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:H:302:GLU:HG3	1:H:323:GLY:HA2	1.83	0.60
1:D:423:ALA:C	1:D:424:GLN:HG3	2.22	0.59
1:E:178:ARG:HH12	1:F:200:ARG:HB3	1.63	0.59
1:I:515:GLU:OE2	1:I:518:LYS:HD2	2.01	0.59
1:D:266:MET:HB3	1:D:332:VAL:HG11	1.84	0.59
1:I:368:ASN:ND2	1:I:407:PRO:HA	2.17	0.59
1:A:291:LYS:HE2	1:A:339:SER:HB2	1.84	0.59
1:O:721:ILE:HG22	1:O:722:LYS:N	2.17	0.59
1:E:498:LEU:HB3	1:E:604:ALA:HB2	1.82	0.59
1:O:548:THR:HA	1:O:575:TYR:CE1	2.37	0.59
1:E:721:ILE:HG22	1:E:722:LYS:N	2.17	0.59
1:J:498:LEU:HB3	1:J:604:ALA:HB2	1.82	0.59
1:A:302:GLU:HG3	1:A:323:GLY:HA2	1.83	0.59
1:K:548:THR:HA	1:K:575:TYR:CE1	2.37	0.59
1:E:243:ILE:CG1	1:E:244:ASP:N	2.64	0.59
1:G:243:ILE:CG1	1:G:244:ASP:N	2.63	0.59
1:F:524:LYS:HG3	1:F:540:LEU:HD22	1.84	0.59
1:F:423:ALA:C	1:F:424:GLN:HG3	2.22	0.59
1:K:524:LYS:HG3	1:K:540:LEU:HD22	1.84	0.59
1:A:524:LYS:HG3	1:A:540:LEU:HD22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:PHE:CE1	1:A:240:THR:HB	2.37	0.59
1:H:455:VAL:HG13	1:H:455:VAL:O	2.03	0.59
1:L:188:GLU:HA	1:L:192:TYR:CE2	2.37	0.59
1:B:236:PHE:CE1	1:B:240:THR:HB	2.37	0.59
1:G:555:ASP:OD2	1:G:588:ASN:HB2	2.02	0.59
1:K:555:ASP:OD2	1:K:588:ASN:HB2	2.02	0.59
1:O:302:GLU:HG3	1:O:323:GLY:HA2	1.83	0.59
1:A:368:ASN:ND2	1:A:407:PRO:HA	2.16	0.59
1:K:264:VAL:HG21	1:K:381:THR:HG21	1.83	0.59
1:F:521:MET:HE2	1:F:522:THR:H	1.67	0.59
1:C:423:ALA:C	1:C:424:GLN:HG3	2.22	0.59
1:L:423:ALA:C	1:L:424:GLN:HG3	2.22	0.59
1:A:516:THR:HG21	1:B:196:VAL:HG21	1.83	0.59
1:G:423:ALA:C	1:G:424:GLN:HG3	2.22	0.59
1:D:224:GLU:HB2	1:D:517:THR:HG21	1.83	0.59
1:O:524:LYS:HG3	1:O:540:LEU:HD22	1.84	0.59
1:O:236:PHE:CE1	1:O:240:THR:HB	2.38	0.59
1:I:455:VAL:HG13	1:I:455:VAL:O	2.03	0.59
1:F:455:VAL:HG13	1:F:455:VAL:O	2.03	0.59
1:C:260:PRO:HG3	1:C:372:ALA:HB3	1.83	0.59
1:H:524:LYS:HG3	1:H:540:LEU:HD22	1.84	0.59
1:D:236:PHE:CE1	1:D:240:THR:HB	2.37	0.59
1:D:188:GLU:HA	1:D:192:TYR:CE2	2.37	0.59
1:M:266:MET:HB3	1:M:332:VAL:HG11	1.84	0.59
1:F:266:MET:HB3	1:F:332:VAL:HG11	1.84	0.59
1:M:536:PRO:HG2	1:M:541:GLN:OE1	2.02	0.59
1:B:536:PRO:HG2	1:B:541:GLN:OE1	2.02	0.59
1:K:207:ILE:HB	1:K:211:HIS:CD2	2.36	0.59
1:M:721:ILE:HG22	1:M:722:LYS:N	2.17	0.59
1:K:291:LYS:HE2	1:K:339:SER:HB2	1.84	0.59
1:H:548:THR:HA	1:H:575:TYR:CE1	2.37	0.59
1:L:330:SER:OG	1:L:450:LEU:HB2	2.03	0.59
1:M:330:SER:OG	1:M:450:LEU:HB2	2.03	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:H:236:PHE:CE1	1:H:240:THR:HB	2.37	0.59
1:A:455:VAL:HG13	1:A:455:VAL:O	2.03	0.59
1:C:236:PHE:CE1	1:C:240:THR:HB	2.38	0.59
1:J:188:GLU:HA	1:J:192:TYR:CE2	2.37	0.59
1:M:236:PHE:CE1	1:M:240:THR:HB	2.38	0.59
1:E:266:MET:HB3	1:E:332:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:555:ASP:OD2	1:I:588:ASN:HB2	2.02	0.59
1:H:266:MET:HB3	1:H:332:VAL:HG11	1.84	0.59
1:O:368:ASN:ND2	1:O:407:PRO:HA	2.16	0.59
1:A:374:ILE:HD12	1:A:405:LEU:HD23	1.83	0.59
1:D:721:ILE:HG22	1:D:722:LYS:N	2.17	0.59
1:H:291:LYS:HE2	1:H:339:SER:HB2	1.84	0.59
1:E:548:THR:HA	1:E:575:TYR:CE1	2.37	0.59
1:M:365:ARG:HB3	1:M:412:PRO:HG3	1.85	0.59
1:O:423:ALA:C	1:O:424:GLN:HG3	2.22	0.59
1:L:266:MET:HB3	1:L:332:VAL:HG11	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:C:721:ILE:HG22	1:C:722:LYS:N	2.17	0.59
1:L:291:LYS:HE2	1:L:339:SER:HB2	1.84	0.59
1:I:291:LYS:HE2	1:I:339:SER:HB2	1.84	0.59
1:I:365:ARG:HB3	1:I:412:PRO:HG3	1.85	0.59
1:L:316:ILE:CD1	1:M:496:LYS:HB3	2.33	0.59
1:O:365:ARG:HB3	1:O:412:PRO:HG3	1.85	0.59
1:A:365:ARG:HB3	1:A:412:PRO:HG3	1.85	0.59
1:L:236:PHE:CE1	1:L:240:THR:HB	2.37	0.59
1:D:455:VAL:HG13	1:D:455:VAL:O	2.03	0.59
1:K:236:PHE:CE1	1:K:240:THR:HB	2.37	0.59
1:E:236:PHE:CE1	1:E:240:THR:HB	2.37	0.59
1:J:260:PRO:HG3	1:J:372:ALA:HB3	1.83	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:G:536:PRO:HG2	1:G:541:GLN:OE1	2.02	0.59
1:C:368:ASN:ND2	1:C:407:PRO:HA	2.16	0.59
1:H:721:ILE:HG22	1:H:722:LYS:N	2.17	0.59
1:M:548:THR:HA	1:M:575:TYR:CE1	2.37	0.59
1:D:498:LEU:HB3	1:D:604:ALA:HB2	1.82	0.59
1:B:264:VAL:HG21	1:B:381:THR:HG21	1.83	0.59
1:I:236:PHE:CE1	1:I:240:THR:HB	2.37	0.59
1:J:423:ALA:C	1:J:424:GLN:HG3	2.22	0.59
1:E:188:GLU:HA	1:E:192:TYR:CE2	2.37	0.59
1:E:515:GLU:OE2	1:E:518:LYS:HD2	2.01	0.59
1:J:236:PHE:CE1	1:J:240:THR:HB	2.38	0.59
1:E:455:VAL:HG13	1:E:455:VAL:O	2.03	0.59
1:K:260:PRO:HG3	1:K:372:ALA:HB3	1.83	0.59
1:D:260:PRO:HG3	1:D:372:ALA:HB3	1.83	0.59
1:A:266:MET:HB3	1:A:332:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:536:PRO:HG2	1:E:541:GLN:OE1	2.02	0.59
1:J:548:THR:HA	1:J:575:TYR:CE1	2.37	0.59
1:C:330:SER:OG	1:C:450:LEU:HB2	2.03	0.59
1:H:330:SER:OG	1:H:450:LEU:HB2	2.03	0.59
1:C:224:GLU:HB2	1:C:517:THR:HG21	1.83	0.59
1:M:403:GLN:N	1:M:403:GLN:NE2	2.47	0.59
1:B:243:ILE:CG1	1:B:244:ASP:N	2.64	0.59
1:E:423:ALA:C	1:E:424:GLN:HG3	2.22	0.59
1:D:196:VAL:HG21	1:O:516:THR:HG21	1.84	0.59
1:O:224:GLU:HB2	1:O:517:THR:HG21	1.83	0.59
1:L:260:PRO:HG3	1:L:372:ALA:HB3	1.83	0.59
1:F:236:PHE:CE1	1:F:240:THR:HB	2.37	0.59
1:J:226:TRP:CG	1:K:466:ASN:HA	2.37	0.59
1:D:330:SER:OG	1:D:450:LEU:HB2	2.03	0.59
1:L:721:ILE:HG22	1:L:722:LYS:N	2.17	0.59
1:L:365:ARG:HB3	1:L:412:PRO:HG3	1.85	0.59
1:E:365:ARG:HB3	1:E:412:PRO:HG3	1.85	0.59
1:M:524:LYS:HG3	1:M:540:LEU:HD22	1.84	0.59
1:G:266:MET:HB3	1:G:332:VAL:HG11	1.84	0.59
1:I:536:PRO:HG2	1:I:541:GLN:OE1	2.02	0.59
1:D:368:ASN:ND2	1:D:407:PRO:HA	2.16	0.59
1:C:548:THR:HA	1:C:575:TYR:CE1	2.37	0.59
1:J:365:ARG:HB3	1:J:412:PRO:HG3	1.85	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:I:517:THR:HG23	1:J:199:LYS:O	2.02	0.59
1:J:606:GLY:HA2	1:J:638:ILE:HB	1.85	0.59
1:M:455:VAL:O	1:M:455:VAL:HG13	2.03	0.59
1:M:188:GLU:HA	1:M:192:TYR:CE2	2.37	0.59
1:I:266:MET:HB3	1:I:332:VAL:HG11	1.84	0.59
1:H:536:PRO:HG2	1:H:541:GLN:OE1	2.02	0.59
1:F:368:ASN:ND2	1:F:407:PRO:HA	2.16	0.59
1:O:658:ASP:O	1:O:718:THR:HG23	2.03	0.59
1:O:330:SER:OG	1:O:450:LEU:HB2	2.03	0.59
1:A:548:THR:HA	1:A:575:TYR:CE1	2.37	0.59
1:E:330:SER:OG	1:E:450:LEU:HB2	2.03	0.59
1:E:291:LYS:HE2	1:E:339:SER:HB2	1.84	0.59
1:A:658:ASP:O	1:A:718:THR:HG23	2.03	0.59
1:F:721:ILE:HG22	1:F:722:LYS:N	2.17	0.59
1:H:318:GLY:CA	1:I:410:TYR:HE1	2.16	0.58
1:I:303:VAL:HG23	1:J:670:GLN:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:GLN:NE2	1:F:403:GLN:N	2.47	0.58
1:F:521:MET:HE2	1:F:525:GLU:HB3	1.85	0.58
1:G:189:VAL:HG13	1:H:199:LYS:HG3	1.85	0.58
1:K:188:GLU:HA	1:K:192:TYR:CD2	2.39	0.58
1:G:260:PRO:HG3	1:G:372:ALA:HB3	1.83	0.58
1:C:524:LYS:HG3	1:C:540:LEU:HD22	1.84	0.58
1:K:455:VAL:HG13	1:K:455:VAL:O	2.03	0.58
1:H:188:GLU:HA	1:H:192:TYR:CD2	2.38	0.58
1:D:188:GLU:HA	1:D:192:TYR:CD2	2.38	0.58
1:B:188:GLU:HA	1:B:192:TYR:CD2	2.38	0.58
1:C:536:PRO:HG2	1:C:541:GLN:OE1	2.02	0.58
1:M:291:LYS:HE2	1:M:339:SER:HB2	1.84	0.58
1:G:229:ALA:O	1:G:230:SER:HB2	2.03	0.58
1:I:548:THR:HA	1:I:575:TYR:CE1	2.37	0.58
1:K:721:ILE:HG22	1:K:722:LYS:N	2.17	0.58
1:D:291:LYS:HE2	1:D:339:SER:HB2	1.84	0.58
1:O:229:ALA:O	1:O:230:SER:HB2	2.03	0.58
1:G:330:SER:OG	1:G:450:LEU:HB2	2.03	0.58
1:J:229:ALA:O	1:J:230:SER:HB2	2.03	0.58
1:H:319:SER:OG	1:I:414:LYS:CD	2.51	0.58
1:K:243:ILE:CG1	1:K:244:ASP:N	2.63	0.58
1:M:606:GLY:HA2	1:M:638:ILE:HB	1.85	0.58
1:B:455:VAL:HG13	1:B:455:VAL:O	2.03	0.58
1:G:236:PHE:CE1	1:G:240:THR:HB	2.37	0.58
1:O:188:GLU:HA	1:O:192:TYR:CD2	2.38	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:C:658:ASP:O	1:C:718:THR:HG23	2.03	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:O:411:TYR:HB3	1:O:412:PRO:CD	2.34	0.58
1:L:606:GLY:HA2	1:L:638:ILE:HB	1.85	0.58
1:I:606:GLY:HA2	1:I:638:ILE:HB	1.85	0.58
1:A:606:GLY:HA2	1:A:638:ILE:HB	1.85	0.58
1:O:455:VAL:O	1:O:455:VAL:HG13	2.03	0.58
1:B:524:LYS:HG3	1:B:540:LEU:HD22	1.84	0.58
1:C:555:ASP:OD2	1:C:588:ASN:HB2	2.02	0.58
1:A:721:ILE:HG22	1:A:722:LYS:N	2.17	0.58
1:K:658:ASP:O	1:K:718:THR:HG23	2.03	0.58
1:O:291:LYS:HE2	1:O:339:SER:HB2	1.84	0.58
1:D:411:TYR:HB3	1:D:412:PRO:CD	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:GLN:NE2	1:B:469:VAL:HG21	2.18	0.58
1:L:178:ARG:NH1	1:M:200:ARG:HB3	2.18	0.58
1:E:606:GLY:HA2	1:E:638:ILE:HB	1.85	0.58
1:J:188:GLU:HA	1:J:192:TYR:CD2	2.38	0.58
1:O:266:MET:HB3	1:O:332:VAL:HG11	1.84	0.58
1:D:536:PRO:HG2	1:D:541:GLN:OE1	2.02	0.58
1:H:658:ASP:O	1:H:718:THR:HG23	2.03	0.58
1:K:229:ALA:O	1:K:230:SER:HB2	2.03	0.58
1:E:229:ALA:O	1:E:230:SER:HB2	2.03	0.58
1:A:330:SER:OG	1:A:450:LEU:HB2	2.03	0.58
1:K:365:ARG:HB3	1:K:412:PRO:HG3	1.85	0.58
1:J:411:TYR:HB3	1:J:412:PRO:CD	2.34	0.58
1:F:188:GLU:HA	1:F:192:TYR:CD2	2.39	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
1:B:606:GLY:HA2	1:B:638:ILE:HB	1.85	0.58
1:O:258:ALA:HA	1:O:371:THR:OG1	2.04	0.58
1:D:258:ALA:HA	1:D:371:THR:OG1	2.04	0.58
1:J:524:LYS:HG3	1:J:540:LEU:HD22	1.84	0.58
1:M:188:GLU:HA	1:M:192:TYR:CD2	2.38	0.58
1:G:658:ASP:O	1:G:718:THR:HG23	2.03	0.58
1:J:658:ASP:O	1:J:718:THR:HG23	2.03	0.58
1:I:658:ASP:O	1:I:718:THR:HG23	2.03	0.58
1:K:330:SER:OG	1:K:450:LEU:HB2	2.03	0.58
1:F:330:SER:OG	1:F:450:LEU:HB2	2.03	0.58
1:D:606:GLY:HA2	1:D:638:ILE:HB	1.85	0.58
1:G:466:ASN:O	1:M:226:TRP:HB3	2.03	0.58
1:J:455:VAL:O	1:J:455:VAL:HG13	2.03	0.58
1:H:258:ALA:HA	1:H:371:THR:OG1	2.04	0.58
1:J:258:ALA:HA	1:J:371:THR:OG1	2.04	0.58
1:G:407:PRO:O	1:G:408:ASN:C	2.42	0.58
1:O:498:LEU:N	1:O:498:LEU:HD22	2.19	0.58
1:D:498:LEU:HD22	1:D:498:LEU:N	2.19	0.58
1:J:330:SER:OG	1:J:450:LEU:HB2	2.03	0.58
1:B:330:SER:OG	1:B:450:LEU:HB2	2.03	0.58
1:A:493:PHE:HA	1:A:591:ILE:O	2.04	0.58
1:I:330:SER:OG	1:I:450:LEU:HB2	2.03	0.58
1:E:493:PHE:HA	1:E:591:ILE:O	2.04	0.58
1:D:316:ILE:HD12	1:E:496:LYS:HB3	1.85	0.58
1:M:243:ILE:CG1	1:M:244:ASP:N	2.63	0.58
1:J:264:VAL:HG21	1:J:381:THR:HG21	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:411:TYR:HB3	1:F:412:PRO:CD	2.34	0.58
1:C:606:GLY:HA2	1:C:638:ILE:HB	1.85	0.58
1:J:636:ARG:HA	1:J:639:LEU:HD23	1.86	0.58
1:G:466:ASN:C	1:M:226:TRP:HB2	2.24	0.58
1:E:658:ASP:O	1:E:718:THR:HG23	2.03	0.58
1:A:407:PRO:O	1:A:408:ASN:C	2.42	0.58
1:F:493:PHE:HA	1:F:591:ILE:O	2.04	0.58
1:G:411:TYR:HB3	1:G:412:PRO:CD	2.34	0.58
1:G:365:ARG:HB3	1:G:412:PRO:HG3	1.85	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
1:G:188:GLU:HA	1:G:192:TYR:CD2	2.38	0.58
1:E:188:GLU:HA	1:E:192:TYR:CD2	2.38	0.58
1:I:178:ARG:HH12	1:J:200:ARG:HB3	1.68	0.58
1:F:606:GLY:HA2	1:F:638:ILE:HB	1.85	0.58
1:E:258:ALA:HA	1:E:371:THR:OG1	2.04	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:M:407:PRO:O	1:M:408:ASN:C	2.42	0.58
1:F:291:LYS:HE2	1:F:339:SER:HB2	1.84	0.58
1:G:291:LYS:HE2	1:G:339:SER:HB2	1.84	0.58
1:A:411:TYR:HB3	1:A:412:PRO:CD	2.34	0.58
1:G:606:GLY:HA2	1:G:638:ILE:HB	1.85	0.58
1:J:407:PRO:O	1:J:408:ASN:C	2.42	0.58
1:F:498:LEU:HD22	1:F:498:LEU:N	2.19	0.58
1:A:498:LEU:N	1:A:498:LEU:HD22	2.19	0.58
1:I:407:PRO:O	1:I:408:ASN:C	2.42	0.58
1:B:721:ILE:HG22	1:B:722:LYS:N	2.17	0.58
1:H:493:PHE:HA	1:H:591:ILE:O	2.04	0.58
1:C:291:LYS:HE2	1:C:339:SER:HB2	1.84	0.58
1:I:188:GLU:HA	1:I:192:TYR:CD2	2.38	0.58
1:G:258:ALA:HA	1:G:371:THR:OG1	2.04	0.58
1:G:455:VAL:O	1:G:455:VAL:HG13	2.03	0.58
1:B:498:LEU:HD22	1:B:498:LEU:N	2.19	0.58
1:E:407:PRO:O	1:E:408:ASN:C	2.42	0.58
1:H:498:LEU:HD22	1:H:498:LEU:N	2.19	0.58
1:L:658:ASP:O	1:L:718:THR:HG23	2.03	0.58
1:D:493:PHE:HA	1:D:591:ILE:O	2.04	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
1:D:670:GLN:HG3	1:O:305:GLY:C	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:266:MET:HB3	1:J:332:VAL:HG11	1.84	0.57
1:G:498:LEU:HD22	1:G:498:LEU:N	2.19	0.57
1:E:498:LEU:N	1:E:498:LEU:HD22	2.19	0.57
1:M:658:ASP:O	1:M:718:THR:HG23	2.03	0.57
1:F:658:ASP:O	1:F:718:THR:HG23	2.03	0.57
1:M:411:TYR:HB3	1:M:412:PRO:CD	2.34	0.57
1:D:414:LYS:HG3	1:O:319:SER:HA	1.86	0.57
1:I:524:LYS:HG3	1:I:540:LEU:HD22	1.84	0.57
1:G:468:ARG:NH1	1:M:480:VAL:HG11	2.18	0.57
1:A:636:ARG:HA	1:A:639:LEU:HD23	1.86	0.57
1:C:455:VAL:O	1:C:455:VAL:HG13	2.03	0.57
1:L:258:ALA:HA	1:L:371:THR:OG1	2.04	0.57
1:C:258:ALA:HA	1:C:371:THR:OG1	2.04	0.57
1:K:407:PRO:O	1:K:408:ASN:C	2.42	0.57
1:K:498:LEU:HD22	1:K:498:LEU:N	2.19	0.57
1:F:229:ALA:O	1:F:230:SER:HB2	2.03	0.57
1:C:229:ALA:O	1:C:230:SER:HB2	2.03	0.57
1:K:411:TYR:HB3	1:K:412:PRO:CD	2.34	0.57
1:M:411:TYR:HB3	1:M:412:PRO:HD3	1.86	0.57
1:D:670:GLN:CG	1:O:305:GLY:CA	2.76	0.57
1:B:411:TYR:HB3	1:B:412:PRO:CD	2.34	0.57
1:B:365:ARG:HB3	1:B:412:PRO:HG3	1.85	0.57
1:I:184:PRO:HD2	1:I:187:LEU:HD12	1.87	0.57
1:L:517:THR:HG23	1:M:199:LYS:O	2.04	0.57
1:M:636:ARG:HA	1:M:639:LEU:HD23	1.86	0.57
1:C:636:ARG:HA	1:C:639:LEU:HD23	1.86	0.57
1:H:606:GLY:HA2	1:H:638:ILE:HB	1.85	0.57
1:B:636:ARG:HA	1:B:639:LEU:HD23	1.86	0.57
1:L:455:VAL:O	1:L:455:VAL:HG13	2.03	0.57
1:H:407:PRO:O	1:H:408:ASN:C	2.42	0.57
1:C:407:PRO:O	1:C:408:ASN:C	2.42	0.57
1:J:498:LEU:HD22	1:J:498:LEU:N	2.19	0.57
1:I:721:ILE:HG22	1:I:722:LYS:N	2.17	0.57
1:I:493:PHE:HA	1:I:591:ILE:O	2.04	0.57
1:G:493:PHE:HA	1:G:591:ILE:O	2.04	0.57
1:O:493:PHE:HA	1:O:591:ILE:O	2.04	0.57
1:B:229:ALA:O	1:B:230:SER:HB2	2.03	0.57
1:M:493:PHE:HA	1:M:591:ILE:O	2.04	0.57
1:I:229:ALA:O	1:I:230:SER:HB2	2.03	0.57
1:C:184:PRO:HD2	1:C:187:LEU:HD12	1.87	0.57
1:G:483:GLN:NE2	1:H:245:LYS:H	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:636:ARG:HA	1:L:639:LEU:HD23	1.86	0.57
1:L:484:ILE:N	1:L:484:ILE:HD12	2.20	0.57
1:D:407:PRO:O	1:D:408:ASN:C	2.42	0.57
1:D:658:ASP:O	1:D:718:THR:HG23	2.03	0.57
1:C:628:LEU:C	1:C:629:LEU:HD12	2.25	0.57
1:K:411:TYR:HB3	1:K:412:PRO:HD3	1.87	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:D:411:TYR:HB3	1:D:412:PRO:HD3	1.86	0.57
1:B:484:ILE:N	1:B:484:ILE:HD12	2.20	0.57
1:F:484:ILE:HD12	1:F:484:ILE:N	2.20	0.57
1:H:480:VAL:HG11	1:I:468:ARG:NH1	2.19	0.57
1:K:258:ALA:HA	1:K:371:THR:OG1	2.04	0.57
1:H:184:PRO:HD2	1:H:187:LEU:HD12	1.87	0.57
1:M:498:LEU:N	1:M:498:LEU:HD22	2.19	0.57
1:C:587:MET:C	1:C:588:ASN:HD22	2.08	0.57
1:C:493:PHE:HA	1:C:591:ILE:O	2.04	0.57
1:K:628:LEU:C	1:K:629:LEU:HD12	2.25	0.57
1:B:628:LEU:C	1:B:629:LEU:HD12	2.25	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
1:B:411:TYR:HB3	1:B:412:PRO:HD3	1.87	0.57
1:K:224:GLU:OE2	1:L:201:THR:HG23	2.04	0.57
1:M:484:ILE:N	1:M:484:ILE:HD12	2.20	0.57
1:F:258:ALA:HA	1:F:371:THR:OG1	2.04	0.57
1:L:188:GLU:HA	1:L:192:TYR:CD2	2.38	0.57
1:A:229:ALA:O	1:A:230:SER:HB2	2.03	0.57
1:H:411:TYR:HB3	1:H:412:PRO:CD	2.34	0.57
1:E:411:TYR:HB3	1:E:412:PRO:CD	2.34	0.57
1:A:411:TYR:HB3	1:A:412:PRO:HD3	1.87	0.57
1:K:606:GLY:HA2	1:K:638:ILE:HB	1.85	0.57
1:B:615:ALA:HB2	1:B:635:ILE:HG13	1.87	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:E:484:ILE:N	1:E:484:ILE:HD12	2.20	0.57
1:I:258:ALA:HA	1:I:371:THR:OG1	2.04	0.57
1:A:258:ALA:HA	1:A:371:THR:OG1	2.04	0.57
1:H:480:VAL:HG21	1:I:468:ARG:CG	2.33	0.57
1:D:484:ILE:N	1:D:484:ILE:HD12	2.20	0.57
1:O:628:LEU:C	1:O:629:LEU:HD12	2.25	0.57
1:I:628:LEU:C	1:I:629:LEU:HD12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:628:LEU:C	1:E:629:LEU:HD12	2.25	0.57
1:I:411:TYR:HB3	1:I:412:PRO:CD	2.34	0.57
1:H:403:GLN:N	1:H:403:GLN:NE2	2.47	0.57
1:F:403:GLN:HE21	1:F:403:GLN:N	1.99	0.57
1:J:633:LYS:O	1:J:636:ARG:HG2	2.05	0.57
1:O:606:GLY:HA2	1:O:638:ILE:HB	1.85	0.57
1:I:484:ILE:N	1:I:484:ILE:HD12	2.20	0.57
1:A:484:ILE:N	1:A:484:ILE:HD12	2.20	0.57
1:K:484:ILE:HD12	1:K:484:ILE:N	2.20	0.57
1:M:184:PRO:HD2	1:M:187:LEU:HD12	1.87	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:D:587:MET:C	1:D:588:ASN:HD22	2.08	0.57
1:I:498:LEU:HD22	1:I:498:LEU:N	2.19	0.57
1:B:658:ASP:O	1:B:718:THR:HG23	2.03	0.57
1:D:628:LEU:C	1:D:629:LEU:HD12	2.25	0.57
1:L:628:LEU:C	1:L:629:LEU:HD12	2.25	0.57
1:F:628:LEU:C	1:F:629:LEU:HD12	2.25	0.57
1:M:403:GLN:N	1:M:403:GLN:HE21	1.99	0.57
1:I:305:GLY:HA3	1:J:670:GLN:HE21	1.68	0.57
1:D:670:GLN:HG3	1:O:305:GLY:CA	2.34	0.57
1:O:403:GLN:HE21	1:O:403:GLN:N	1.99	0.57
1:L:633:LYS:O	1:L:636:ARG:HG2	2.05	0.57
1:I:636:ARG:HA	1:I:639:LEU:HD23	1.86	0.57
1:H:615:ALA:HB2	1:H:635:ILE:HG13	1.87	0.57
1:J:484:ILE:N	1:J:484:ILE:HD12	2.20	0.57
1:D:184:PRO:HD2	1:D:187:LEU:HD12	1.87	0.57
1:C:498:LEU:N	1:C:498:LEU:HD22	2.19	0.57
1:J:628:LEU:C	1:J:629:LEU:HD12	2.25	0.57
1:M:628:LEU:C	1:M:629:LEU:HD12	2.25	0.57
1:D:229:ALA:O	1:D:230:SER:HB2	2.03	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
1:A:615:ALA:HB2	1:A:635:ILE:HG13	1.87	0.57
1:K:306:ASN:HA	1:L:669:ARG:CB	2.35	0.57
1:K:587:MET:C	1:K:588:ASN:HD22	2.08	0.57
1:J:587:MET:C	1:J:588:ASN:HD22	2.08	0.57
1:L:498:LEU:N	1:L:498:LEU:HD22	2.19	0.57
1:L:407:PRO:O	1:L:408:ASN:C	2.42	0.57
1:F:407:PRO:O	1:F:408:ASN:C	2.42	0.57
1:H:229:ALA:O	1:H:230:SER:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:493:PHE:HA	1:K:591:ILE:O	2.04	0.57
1:H:411:TYR:HB3	1:H:412:PRO:HD3	1.86	0.56
1:M:365:ARG:CZ	1:M:418:PRO:HG3	2.35	0.56
1:C:365:ARG:CZ	1:C:418:PRO:HG3	2.35	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:615:ALA:HB2	1:G:635:ILE:HG13	1.87	0.56
1:E:636:ARG:HA	1:E:639:LEU:HD23	1.86	0.56
1:O:484:ILE:HD12	1:O:484:ILE:N	2.20	0.56
1:G:484:ILE:N	1:G:484:ILE:HD12	2.20	0.56
1:G:587:MET:C	1:G:588:ASN:HD22	2.08	0.56
1:A:587:MET:C	1:A:588:ASN:HD22	2.08	0.56
1:B:407:PRO:O	1:B:408:ASN:C	2.42	0.56
1:O:407:PRO:O	1:O:408:ASN:C	2.42	0.56
1:J:493:PHE:HA	1:J:591:ILE:O	2.04	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
1:G:636:ARG:HA	1:G:639:LEU:HD23	1.86	0.56
1:H:484:ILE:HD12	1:H:484:ILE:N	2.20	0.56
1:F:587:MET:C	1:F:588:ASN:HD22	2.08	0.56
1:B:587:MET:C	1:B:588:ASN:HD22	2.08	0.56
1:I:326:ASN:O	1:I:327:SER:HB2	2.05	0.56
1:L:326:ASN:O	1:L:327:SER:HB2	2.05	0.56
1:K:326:ASN:O	1:K:327:SER:HB2	2.05	0.56
1:I:411:TYR:HB3	1:I:412:PRO:HD3	1.86	0.56
1:H:365:ARG:CZ	1:H:418:PRO:HG3	2.35	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:I:316:ILE:CD1	1:J:496:LYS:CB	2.76	0.56
1:F:365:ARG:CZ	1:F:418:PRO:HG3	2.35	0.56
1:D:365:ARG:CZ	1:D:418:PRO:HG3	2.35	0.56
1:A:365:ARG:CZ	1:A:418:PRO:HG3	2.35	0.56
1:D:245:LYS:HE3	1:O:512:ASP:OD1	2.05	0.56
1:G:184:PRO:HD2	1:G:187:LEU:HD12	1.87	0.56
1:K:521:MET:HE2	1:K:525:GLU:HB3	1.86	0.56
1:K:633:LYS:O	1:K:636:ARG:HG2	2.05	0.56
1:C:633:LYS:O	1:C:636:ARG:HG2	2.05	0.56
1:G:481:LEU:H	1:G:482:PRO:HD2	1.70	0.56
1:E:477:TRP:HB3	1:E:481:LEU:HD12	1.87	0.56
1:F:477:TRP:HB3	1:F:481:LEU:HD12	1.88	0.56
1:H:477:TRP:HB3	1:H:481:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:PRO:HD2	1:A:187:LEU:HD12	1.87	0.56
1:A:670:GLN:CG	1:F:305:GLY:HA2	2.33	0.56
1:H:587:MET:C	1:H:588:ASN:HD22	2.08	0.56
1:I:587:MET:C	1:I:588:ASN:HD22	2.08	0.56
1:O:326:ASN:O	1:O:327:SER:HB2	2.06	0.56
1:M:326:ASN:O	1:M:327:SER:HB2	2.05	0.56
1:L:493:PHE:HA	1:L:591:ILE:O	2.04	0.56
1:A:326:ASN:O	1:A:327:SER:HB2	2.06	0.56
1:H:628:LEU:C	1:H:629:LEU:HD12	2.25	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
1:C:411:TYR:HB3	1:C:412:PRO:HD3	1.87	0.56
1:F:184:PRO:HD2	1:F:187:LEU:HD12	1.87	0.56
1:M:615:ALA:HB2	1:M:635:ILE:HG13	1.87	0.56
1:L:615:ALA:HB2	1:L:635:ILE:HG13	1.87	0.56
1:B:477:TRP:HB3	1:B:481:LEU:HD12	1.88	0.56
1:C:484:ILE:HD12	1:C:484:ILE:N	2.20	0.56
1:E:316:ILE:HD12	1:F:496:LYS:HB3	1.87	0.56
1:G:326:ASN:O	1:G:327:SER:HB2	2.06	0.56
1:H:326:ASN:O	1:H:327:SER:HB2	2.05	0.56
1:D:326:ASN:O	1:D:327:SER:HB2	2.05	0.56
1:G:403:GLN:N	1:G:403:GLN:NE2	2.47	0.56
1:I:224:GLU:OE2	1:J:201:THR:HG23	2.05	0.56
1:F:633:LYS:O	1:F:636:ARG:HG2	2.05	0.56
1:D:615:ALA:HB2	1:D:635:ILE:HG13	1.87	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
1:O:184:PRO:HD2	1:O:187:LEU:HD12	1.86	0.56
1:B:493:PHE:HA	1:B:591:ILE:O	2.04	0.56
1:A:628:LEU:C	1:A:629:LEU:HD12	2.25	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
1:I:521:MET:HE1	1:I:525:GLU:CG	2.33	0.56
1:K:636:ARG:HA	1:K:639:LEU:HD23	1.86	0.56
1:A:477:TRP:HB3	1:A:481:LEU:HD12	1.88	0.56
1:M:587:MET:C	1:M:588:ASN:HD22	2.08	0.56
1:L:587:MET:C	1:L:588:ASN:HD22	2.08	0.56
1:G:628:LEU:C	1:G:629:LEU:HD12	2.25	0.56
1:K:365:ARG:CZ	1:K:418:PRO:HG3	2.35	0.56
1:G:316:ILE:HD13	1:H:496:LYS:HD3	1.87	0.56
1:E:365:ARG:CZ	1:E:418:PRO:HG3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:GLN:NE2	1:A:403:GLN:N	2.47	0.56
1:K:184:PRO:HD2	1:K:187:LEU:HD12	1.87	0.56
1:D:633:LYS:O	1:D:636:ARG:HG2	2.05	0.56
1:B:633:LYS:O	1:B:636:ARG:HG2	2.05	0.56
1:G:477:TRP:HB3	1:G:481:LEU:HD12	1.88	0.56
1:I:477:TRP:HB3	1:I:481:LEU:HD12	1.87	0.56
1:E:587:MET:C	1:E:588:ASN:HD22	2.08	0.56
1:C:326:ASN:O	1:C:327:SER:HB2	2.05	0.56
1:G:316:ILE:CD1	1:H:496:LYS:CG	2.84	0.56
1:E:224:GLU:OE2	1:F:201:THR:CG2	2.51	0.56
1:G:633:LYS:O	1:G:636:ARG:HG2	2.05	0.56
1:G:468:ARG:HH11	1:M:480:VAL:HG11	1.71	0.56
1:O:481:LEU:H	1:O:482:PRO:HD2	1.70	0.56
1:M:364:ILE:O	1:M:364:ILE:HD12	2.06	0.56
1:B:365:ARG:CZ	1:B:418:PRO:HG3	2.35	0.56
1:E:184:PRO:HD2	1:E:187:LEU:HD12	1.87	0.56
1:D:636:ARG:HA	1:D:639:LEU:HD23	1.86	0.56
1:H:633:LYS:O	1:H:636:ARG:HG2	2.05	0.56
1:D:364:ILE:O	1:D:364:ILE:HD12	2.06	0.56
1:J:584:ASN:H	1:J:587:MET:HE3	1.70	0.56
1:C:314:PHE:CZ	1:O:672:GLY:HA2	2.41	0.56
1:E:326:ASN:O	1:E:327:SER:HB2	2.05	0.56
1:L:411:TYR:HB3	1:L:412:PRO:HD3	1.87	0.56
1:M:633:LYS:O	1:M:636:ARG:HG2	2.05	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:E:481:LEU:H	1:E:482:PRO:HD2	1.70	0.56
1:I:481:LEU:H	1:I:482:PRO:HD2	1.70	0.56
1:C:481:LEU:H	1:C:482:PRO:HD2	1.70	0.56
1:A:481:LEU:H	1:A:482:PRO:HD2	1.70	0.56
1:J:481:LEU:H	1:J:482:PRO:HD2	1.70	0.56
1:J:364:ILE:O	1:J:364:ILE:HD12	2.06	0.56
1:K:364:ILE:HD12	1:K:364:ILE:O	2.06	0.56
1:C:708:ILE:HD13	1:C:709:ASN:OD1	2.06	0.56
1:E:615:ALA:HB2	1:E:635:ILE:HG13	1.87	0.55
1:M:477:TRP:HB3	1:M:481:LEU:HD12	1.88	0.55
1:O:615:ALA:HB2	1:O:635:ILE:HG13	1.87	0.55
1:J:184:PRO:HD2	1:J:187:LEU:HD12	1.87	0.55
1:O:364:ILE:O	1:O:364:ILE:HD12	2.06	0.55
1:O:587:MET:C	1:O:588:ASN:HD22	2.08	0.55
1:K:269:ILE:HG22	1:K:362:ALA:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:365:ARG:CZ	1:I:418:PRO:HG3	2.35	0.55
1:L:365:ARG:CZ	1:L:418:PRO:HG3	2.35	0.55
1:J:243:ILE:CG1	1:J:244:ASP:N	2.64	0.55
1:O:365:ARG:CZ	1:O:418:PRO:HG3	2.35	0.55
1:D:199:LYS:O	1:O:517:THR:HG23	2.06	0.55
1:A:633:LYS:O	1:A:636:ARG:HG2	2.05	0.55
1:L:481:LEU:H	1:L:482:PRO:HD2	1.71	0.55
1:J:479:GLU:HG2	1:K:471:VAL:CG2	2.36	0.55
1:K:708:ILE:HD12	1:K:709:ASN:N	2.21	0.55
1:L:316:ILE:CD1	1:M:496:LYS:CD	2.76	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
1:L:184:PRO:HD2	1:L:187:LEU:HD12	1.87	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:J:708:ILE:HD13	1:J:709:ASN:OD1	2.06	0.55
1:I:708:ILE:HD13	1:I:709:ASN:OD1	2.07	0.55
1:L:708:ILE:HD12	1:L:709:ASN:N	2.21	0.55
1:O:196:VAL:HA	1:O:200:ARG:O	2.07	0.55
1:G:189:VAL:HG13	1:H:199:LYS:CG	2.37	0.55
1:B:196:VAL:HA	1:B:200:ARG:O	2.07	0.55
1:O:477:TRP:HB3	1:O:481:LEU:HD12	1.88	0.55
1:F:481:LEU:H	1:F:482:PRO:HD2	1.70	0.55
1:H:481:LEU:H	1:H:482:PRO:HD2	1.71	0.55
1:M:364:ILE:C	1:M:364:ILE:HD12	2.27	0.55
1:E:708:ILE:HD12	1:E:709:ASN:N	2.21	0.55
1:D:708:ILE:HD12	1:D:709:ASN:N	2.21	0.55
1:J:464:PHE:CD2	1:J:464:PHE:N	2.75	0.55
1:F:464:PHE:N	1:F:464:PHE:CD2	2.75	0.55
1:J:326:ASN:O	1:J:327:SER:HB2	2.05	0.55
1:J:365:ARG:CZ	1:J:418:PRO:HG3	2.35	0.55
1:M:260:PRO:HD3	1:M:477:TRP:CZ3	2.42	0.55
1:L:364:ILE:O	1:L:364:ILE:HD12	2.06	0.55
1:D:364:ILE:HD12	1:D:364:ILE:C	2.27	0.55
1:G:364:ILE:HD12	1:G:364:ILE:O	2.06	0.55
1:K:708:ILE:HD13	1:K:709:ASN:OD1	2.07	0.55
1:G:464:PHE:CD2	1:G:464:PHE:N	2.75	0.55
1:A:306:ASN:HA	1:B:669:ARG:HB3	1.87	0.55
1:C:403:GLN:HE21	1:C:403:GLN:N	1.99	0.55
1:B:325:SER:OG	1:C:415:ASN:ND2	2.40	0.55
1:O:524:LYS:CD	1:O:579:ASP:HB3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:615:ALA:HB2	1:C:635:ILE:HG13	1.87	0.55
1:J:615:ALA:HB2	1:J:635:ILE:HG13	1.87	0.55
1:G:260:PRO:HD3	1:G:477:TRP:CZ3	2.42	0.55
1:B:260:PRO:HD3	1:B:477:TRP:CZ3	2.42	0.55
1:H:521:MET:HA	1:H:521:MET:CE	2.36	0.55
1:F:260:PRO:HD3	1:F:477:TRP:CZ3	2.42	0.55
1:K:481:LEU:H	1:K:482:PRO:HD2	1.70	0.55
1:C:364:ILE:C	1:C:364:ILE:HD12	2.27	0.55
1:C:364:ILE:O	1:C:364:ILE:HD12	2.06	0.55
1:C:708:ILE:HD12	1:C:709:ASN:N	2.22	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
1:D:708:ILE:HD13	1:D:709:ASN:OD1	2.06	0.55
1:L:708:ILE:HD13	1:L:709:ASN:OD1	2.07	0.55
1:F:708:ILE:HD12	1:F:709:ASN:N	2.21	0.55
1:O:708:ILE:HD12	1:O:709:ASN:N	2.21	0.55
1:C:464:PHE:N	1:C:464:PHE:CD2	2.75	0.55
1:F:326:ASN:O	1:F:327:SER:HB2	2.06	0.55
1:H:403:GLN:HE21	1:H:403:GLN:N	1.99	0.55
1:E:403:GLN:N	1:E:403:GLN:NE2	2.47	0.55
1:J:196:VAL:HA	1:J:200:ARG:O	2.07	0.55
1:G:196:VAL:HA	1:G:200:ARG:O	2.07	0.55
1:J:477:TRP:HB3	1:J:481:LEU:HD12	1.88	0.55
1:F:364:ILE:C	1:F:364:ILE:HD12	2.27	0.55
1:H:364:ILE:HD12	1:H:364:ILE:O	2.06	0.55
1:E:708:ILE:HD13	1:E:709:ASN:OD1	2.07	0.55
1:I:708:ILE:HD12	1:I:709:ASN:N	2.21	0.55
1:J:269:ILE:HG22	1:J:362:ALA:HB2	1.89	0.55
1:B:326:ASN:O	1:B:327:SER:HB2	2.06	0.55
1:A:305:GLY:CA	1:B:670:GLN:CG	2.78	0.55
1:A:200:ARG:HB3	1:F:178:ARG:NH2	2.21	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:L:260:PRO:HD3	1:L:477:TRP:CZ3	2.42	0.55
1:I:260:PRO:HD3	1:I:477:TRP:CZ3	2.42	0.55
1:K:477:TRP:HB3	1:K:481:LEU:HD12	1.88	0.55
1:I:196:VAL:HA	1:I:200:ARG:O	2.07	0.55
1:F:364:ILE:O	1:F:364:ILE:HD12	2.06	0.55
1:B:708:ILE:HD12	1:B:709:ASN:N	2.21	0.55
1:O:708:ILE:HD13	1:O:709:ASN:OD1	2.07	0.55
1:D:269:ILE:HG22	1:D:362:ALA:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:269:ILE:HG22	1:L:362:ALA:HB2	1.89	0.55
1:G:269:ILE:HG22	1:G:362:ALA:HB2	1.89	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:L:196:VAL:HA	1:L:200:ARG:O	2.07	0.55
1:E:260:PRO:HD3	1:E:477:TRP:CZ3	2.42	0.55
1:K:196:VAL:HA	1:K:200:ARG:O	2.07	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:C:603:ILE:O	1:C:605:VAL:HG23	2.07	0.55
1:A:364:ILE:C	1:A:364:ILE:HD12	2.27	0.55
1:I:364:ILE:O	1:I:364:ILE:HD12	2.06	0.55
1:A:708:ILE:HD13	1:A:709:ASN:OD1	2.06	0.55
1:M:708:ILE:HD12	1:M:709:ASN:N	2.22	0.55
1:M:708:ILE:HD13	1:M:709:ASN:OD1	2.07	0.55
1:H:708:ILE:HD13	1:H:709:ASN:OD1	2.07	0.55
1:K:464:PHE:CD2	1:K:464:PHE:N	2.75	0.55
1:C:196:VAL:HA	1:C:200:ARG:O	2.07	0.55
1:D:196:VAL:HA	1:D:200:ARG:O	2.07	0.55
1:H:196:VAL:HA	1:H:200:ARG:O	2.07	0.55
1:L:477:TRP:HB3	1:L:481:LEU:HD12	1.87	0.55
1:C:477:TRP:HB3	1:C:481:LEU:HD12	1.87	0.55
1:K:260:PRO:HD3	1:K:477:TRP:CZ3	2.42	0.55
1:J:260:PRO:HD3	1:J:477:TRP:CZ3	2.42	0.55
1:K:603:ILE:O	1:K:605:VAL:HG23	2.07	0.55
1:L:603:ILE:O	1:L:605:VAL:HG23	2.07	0.55
1:K:364:ILE:C	1:K:364:ILE:HD12	2.27	0.55
1:J:708:ILE:HD12	1:J:709:ASN:N	2.21	0.55
1:B:708:ILE:HD13	1:B:709:ASN:OD1	2.07	0.55
1:E:269:ILE:HG22	1:E:362:ALA:HB2	1.89	0.55
1:I:403:GLN:N	1:I:403:GLN:HE21	1.99	0.54
1:L:403:GLN:HE21	1:L:403:GLN:N	1.99	0.54
1:M:521:MET:CE	1:M:521:MET:HA	2.36	0.54
1:B:481:LEU:H	1:B:482:PRO:HD2	1.71	0.54
1:A:260:PRO:HD3	1:A:477:TRP:CZ3	2.42	0.54
1:J:524:LYS:CD	1:J:579:ASP:HB3	2.36	0.54
1:E:364:ILE:C	1:E:364:ILE:HD12	2.27	0.54
1:E:364:ILE:O	1:E:364:ILE:HD12	2.06	0.54
1:G:364:ILE:HD12	1:G:364:ILE:C	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:ILE:HG22	1:C:362:ALA:HB2	1.89	0.54
1:D:464:PHE:N	1:D:464:PHE:CD2	2.75	0.54
1:F:196:VAL:HA	1:F:200:ARG:O	2.07	0.54
1:E:196:VAL:HA	1:E:200:ARG:O	2.07	0.54
1:I:189:VAL:HG13	1:J:199:LYS:HG3	1.89	0.54
1:H:524:LYS:CD	1:H:579:ASP:HB3	2.36	0.54
1:O:603:ILE:O	1:O:605:VAL:HG23	2.07	0.54
1:B:603:ILE:O	1:B:605:VAL:HG23	2.07	0.54
1:G:603:ILE:O	1:G:605:VAL:HG23	2.07	0.54
1:A:708:ILE:HD12	1:A:709:ASN:N	2.21	0.54
1:O:269:ILE:HG22	1:O:362:ALA:HB2	1.89	0.54
1:I:269:ILE:HG22	1:I:362:ALA:HB2	1.89	0.54
1:B:483:GLN:NE2	1:C:469:VAL:HG21	2.22	0.54
1:L:464:PHE:N	1:L:464:PHE:CD2	2.75	0.54
1:L:319:SER:OG	1:M:414:LYS:HE3	2.07	0.54
1:I:319:SER:H	1:J:414:LYS:HE3	1.72	0.54
1:B:403:GLN:N	1:B:403:GLN:HE21	1.99	0.54
1:I:521:MET:CE	1:I:521:MET:HA	2.37	0.54
1:B:521:MET:CE	1:B:521:MET:HA	2.36	0.54
1:D:603:ILE:O	1:D:605:VAL:HG23	2.07	0.54
1:C:262:VAL:CG1	1:C:379:PRO:HG2	2.38	0.54
1:H:262:VAL:CG1	1:H:379:PRO:HG2	2.38	0.54
1:O:364:ILE:C	1:O:364:ILE:HD12	2.27	0.54
1:H:708:ILE:HD12	1:H:709:ASN:N	2.21	0.54
1:H:464:PHE:N	1:H:464:PHE:CD2	2.75	0.54
1:G:415:ASN:HB3	1:M:321:SER:CB	2.38	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
1:A:201:THR:CG2	1:F:224:GLU:OE2	2.55	0.54
1:C:260:PRO:HD3	1:C:477:TRP:CZ3	2.42	0.54
1:D:260:PRO:HD3	1:D:477:TRP:CZ3	2.42	0.54
1:B:262:VAL:CG1	1:B:379:PRO:HG2	2.38	0.54
1:L:364:ILE:C	1:L:364:ILE:HD12	2.27	0.54
1:O:464:PHE:CD2	1:O:464:PHE:N	2.74	0.54
1:I:524:LYS:CD	1:I:579:ASP:HB3	2.36	0.54
1:C:524:LYS:CD	1:C:579:ASP:HB3	2.36	0.54
1:A:603:ILE:O	1:A:605:VAL:HG23	2.07	0.54
1:F:262:VAL:CG1	1:F:379:PRO:HG2	2.38	0.54
1:I:364:ILE:HD12	1:I:364:ILE:C	2.27	0.54
1:D:584:ASN:H	1:D:587:MET:HE3	1.71	0.54
1:F:708:ILE:HD13	1:F:709:ASN:OD1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:ILE:HG22	1:A:362:ALA:HB2	1.88	0.54
1:B:269:ILE:HG22	1:B:362:ALA:HB2	1.88	0.54
1:C:178:ARG:CZ	1:O:200:ARG:CB	2.74	0.54
1:E:603:ILE:O	1:E:605:VAL:HG23	2.07	0.54
1:A:262:VAL:CG1	1:A:379:PRO:HG2	2.38	0.54
1:B:364:ILE:HD12	1:B:364:ILE:C	2.27	0.54
1:M:464:PHE:N	1:M:464:PHE:CD2	2.75	0.54
1:G:316:ILE:CD1	1:H:496:LYS:CD	2.82	0.54
1:A:196:VAL:HA	1:A:200:ARG:O	2.07	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
1:M:196:VAL:HA	1:M:200:ARG:O	2.07	0.54
1:I:262:VAL:CG1	1:I:379:PRO:HG2	2.38	0.54
1:H:364:ILE:HD12	1:H:364:ILE:C	2.27	0.54
1:H:317:GLY:HA3	1:I:408:ASN:O	2.08	0.54
1:J:217:THR:HG22	1:J:218:LYS:N	2.23	0.54
1:I:464:PHE:N	1:I:464:PHE:CD2	2.75	0.54
1:K:403:GLN:N	1:K:403:GLN:NE2	2.47	0.54
1:B:403:GLN:N	1:B:403:GLN:NE2	2.47	0.54
1:G:521:MET:HE2	1:G:525:GLU:HB3	1.90	0.54
1:K:189:VAL:HG13	1:L:199:LYS:HG3	1.90	0.54
1:J:364:ILE:HD12	1:J:364:ILE:C	2.27	0.54
1:H:269:ILE:HG22	1:H:362:ALA:HB2	1.89	0.54
1:C:217:THR:HG22	1:C:218:LYS:N	2.23	0.54
1:O:645:GLU:HB2	1:O:654:GLU:O	2.08	0.54
1:J:410:TYR:CD2	1:J:414:LYS:HE2	2.43	0.54
1:A:410:TYR:CD2	1:A:414:LYS:HE2	2.43	0.54
1:F:603:ILE:O	1:F:605:VAL:HG23	2.08	0.54
1:E:336:HIS:CG	1:E:708:ILE:HG22	2.43	0.54
1:I:217:THR:HG22	1:I:218:LYS:N	2.23	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:M:270:ILE:HG23	1:M:361:ASN:HB3	1.90	0.54
1:I:515:GLU:OE1	1:J:245:LYS:HE2	2.08	0.54
1:H:232:PRO:HA	1:I:468:ARG:HH22	1.72	0.54
1:A:513:PRO:HG2	1:B:239:VAL:O	2.07	0.54
1:D:262:VAL:CG1	1:D:379:PRO:HG2	2.38	0.54
1:E:262:VAL:CG1	1:E:379:PRO:HG2	2.38	0.54
1:O:262:VAL:CG1	1:O:379:PRO:HG2	2.38	0.54
1:K:262:VAL:CG1	1:K:379:PRO:HG2	2.38	0.54
1:A:364:ILE:HD12	1:A:364:ILE:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:336:HIS:CG	1:F:708:ILE:HG22	2.43	0.54
1:A:645:GLU:HB2	1:A:654:GLU:O	2.08	0.54
1:E:645:GLU:HB2	1:E:654:GLU:O	2.08	0.54
1:E:255:LEU:HD22	1:E:506:ALA:HB3	1.90	0.54
1:F:645:GLU:HB2	1:F:654:GLU:O	2.08	0.54
1:H:217:THR:HG22	1:H:218:LYS:N	2.23	0.54
1:L:255:LEU:HD22	1:L:506:ALA:HB3	1.90	0.54
1:E:464:PHE:N	1:E:464:PHE:CD2	2.74	0.54
1:D:217:THR:HG22	1:D:218:LYS:N	2.23	0.54
1:M:269:ILE:HG22	1:M:362:ALA:HB2	1.89	0.54
1:K:410:TYR:CD2	1:K:414:LYS:HE2	2.43	0.53
1:M:410:TYR:CD2	1:M:414:LYS:HE2	2.43	0.53
1:E:410:TYR:CD2	1:E:414:LYS:HE2	2.43	0.53
1:O:270:ILE:HG23	1:O:361:ASN:HB3	1.90	0.53
1:I:270:ILE:HG23	1:I:361:ASN:HB3	1.90	0.53
1:O:521:MET:HA	1:O:521:MET:CE	2.37	0.53
1:I:484:ILE:CD1	1:I:484:ILE:H	2.22	0.53
1:M:603:ILE:O	1:M:605:VAL:HG23	2.07	0.53
1:L:336:HIS:CG	1:L:708:ILE:HG22	2.43	0.53
1:C:483:GLN:NE2	1:O:245:LYS:HB2	2.23	0.53
1:H:410:TYR:CD2	1:H:414:LYS:HE2	2.43	0.53
1:C:410:TYR:CD2	1:C:414:LYS:HE2	2.43	0.53
1:J:403:GLN:N	1:J:403:GLN:HE21	1.99	0.53
1:M:222:SER:OG	1:M:517:THR:HG22	2.09	0.53
1:F:410:TYR:CD2	1:F:414:LYS:HE2	2.43	0.53
1:D:410:TYR:CD2	1:D:414:LYS:HE2	2.43	0.53
1:H:200:ARG:CD	1:H:200:ARG:N	2.71	0.53
1:K:222:SER:OG	1:K:517:THR:HG22	2.09	0.53
1:J:453:ASP:OD1	1:J:455:VAL:HG12	2.08	0.53
1:B:484:ILE:H	1:B:484:ILE:CD1	2.22	0.53
1:L:453:ASP:OD1	1:L:455:VAL:HG12	2.09	0.53
1:K:453:ASP:OD1	1:K:455:VAL:HG12	2.09	0.53
1:J:603:ILE:O	1:J:605:VAL:HG23	2.07	0.53
1:J:336:HIS:CG	1:J:708:ILE:HG22	2.43	0.53
1:I:336:HIS:CG	1:I:708:ILE:HG22	2.43	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
1:L:217:THR:HG22	1:L:218:LYS:N	2.23	0.53
1:A:217:THR:HG22	1:A:218:LYS:N	2.23	0.53
1:I:410:TYR:CD2	1:I:414:LYS:HE2	2.43	0.53
1:H:421:LEU:O	1:H:422:ASN:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:222:SER:OG	1:F:517:THR:HG22	2.09	0.53
1:L:270:ILE:HG23	1:L:361:ASN:HB3	1.90	0.53
1:A:484:ILE:H	1:A:484:ILE:CD1	2.22	0.53
1:E:295:THR:OG1	1:E:332:VAL:HG12	2.09	0.53
1:O:336:HIS:CG	1:O:708:ILE:HG22	2.43	0.53
1:D:645:GLU:HB2	1:D:654:GLU:O	2.08	0.53
1:B:270:ILE:HG23	1:B:361:ASN:HB3	1.91	0.53
1:L:512:ASP:OD1	1:M:245:LYS:HE3	2.08	0.53
1:E:484:ILE:H	1:E:484:ILE:CD1	2.22	0.53
1:O:295:THR:OG1	1:O:332:VAL:HG12	2.09	0.53
1:I:295:THR:OG1	1:I:332:VAL:HG12	2.09	0.53
1:C:368:ASN:HB2	1:C:405:LEU:HG	1.91	0.53
1:B:368:ASN:HB2	1:B:405:LEU:HG	1.91	0.53
1:B:217:THR:HG22	1:B:218:LYS:N	2.23	0.53
1:G:217:THR:HG22	1:G:218:LYS:N	2.23	0.53
1:D:411:TYR:HD2	1:D:412:PRO:HD3	1.74	0.53
1:I:222:SER:OG	1:I:517:THR:HG22	2.09	0.53
1:E:524:LYS:CD	1:E:579:ASP:HB3	2.36	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:A:453:ASP:OD1	1:A:455:VAL:HG12	2.09	0.53
1:H:295:THR:OG1	1:H:332:VAL:HG12	2.09	0.53
1:D:336:HIS:CG	1:D:708:ILE:HG22	2.43	0.53
1:M:217:THR:HG22	1:M:218:LYS:N	2.23	0.53
1:A:255:LEU:HD22	1:A:506:ALA:HB3	1.90	0.53
1:G:412:PRO:O	1:G:413:SER:C	2.47	0.53
1:M:411:TYR:HD2	1:M:412:PRO:HD3	1.74	0.53
1:L:316:ILE:HD12	1:M:496:LYS:HB3	1.91	0.53
1:G:469:VAL:HG21	1:M:483:GLN:CD	2.26	0.53
1:L:410:TYR:CD2	1:L:414:LYS:HE2	2.43	0.53
1:A:401:LEU:HD22	1:A:411:TYR:CE1	2.44	0.53
1:D:222:SER:OG	1:D:517:THR:HG22	2.09	0.53
1:D:521:MET:HE2	1:D:525:GLU:HB3	1.91	0.53
1:O:484:ILE:H	1:O:484:ILE:CD1	2.22	0.53
1:E:453:ASP:OD1	1:E:455:VAL:HG12	2.09	0.53
1:F:453:ASP:OD1	1:F:455:VAL:HG12	2.09	0.53
1:H:480:VAL:CG2	1:I:468:ARG:HD3	2.38	0.53
1:H:603:ILE:O	1:H:605:VAL:HG23	2.07	0.53
1:M:505:ILE:HD11	1:M:530:ALA:CB	2.39	0.53
1:L:262:VAL:CG1	1:L:379:PRO:HG2	2.38	0.53
1:J:368:ASN:HB2	1:J:405:LEU:HG	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:368:ASN:HB2	1:K:405:LEU:HG	1.91	0.53
1:J:255:LEU:HD22	1:J:506:ALA:HB3	1.90	0.53
1:J:645:GLU:HB2	1:J:654:GLU:O	2.08	0.53
1:F:269:ILE:HG22	1:F:362:ALA:HB2	1.89	0.53
1:H:255:LEU:HD22	1:H:506:ALA:HB3	1.90	0.53
1:E:217:THR:HG22	1:E:218:LYS:N	2.23	0.53
1:K:412:PRO:O	1:K:413:SER:C	2.47	0.53
1:H:401:LEU:HD22	1:H:411:TYR:CE1	2.44	0.53
1:O:410:TYR:CD2	1:O:414:LYS:HE2	2.43	0.53
1:D:270:ILE:HG23	1:D:361:ASN:HB3	1.90	0.53
1:E:222:SER:OG	1:E:517:THR:HG22	2.09	0.53
1:L:524:LYS:CD	1:L:579:ASP:HB3	2.36	0.53
1:B:207:ILE:N	1:B:211:HIS:HD2	2.07	0.53
1:K:206:TRP:CE3	1:K:206:TRP:HA	2.44	0.53
1:B:645:GLU:HB2	1:B:654:GLU:O	2.08	0.53
1:D:660:TYR:HE2	1:D:710:PRO:HG3	1.74	0.53
1:A:660:TYR:HE2	1:A:710:PRO:HG3	1.74	0.53
1:B:660:TYR:HE2	1:B:710:PRO:HG3	1.74	0.53
1:C:645:GLU:HB2	1:C:654:GLU:O	2.08	0.53
1:L:645:GLU:HB2	1:L:654:GLU:O	2.08	0.53
1:J:421:LEU:O	1:J:422:ASN:C	2.47	0.53
1:M:421:LEU:O	1:M:422:ASN:C	2.47	0.53
1:B:178:ARG:NH2	1:C:200:ARG:HB3	2.23	0.53
1:J:270:ILE:HG23	1:J:361:ASN:HB3	1.90	0.53
1:O:521:MET:HE1	1:O:525:GLU:CG	2.35	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:A:505:ILE:HD11	1:A:530:ALA:CB	2.39	0.53
1:J:262:VAL:CG1	1:J:379:PRO:HG2	2.38	0.53
1:G:262:VAL:CG1	1:G:379:PRO:HG2	2.38	0.53
1:G:206:TRP:CE3	1:G:206:TRP:HA	2.44	0.53
1:G:336:HIS:CG	1:G:708:ILE:HG22	2.43	0.53
1:O:206:TRP:HA	1:O:206:TRP:CE3	2.44	0.53
1:C:206:TRP:HA	1:C:206:TRP:CE3	2.44	0.53
1:E:660:TYR:HE2	1:E:710:PRO:HG3	1.74	0.53
1:H:412:PRO:O	1:H:413:SER:C	2.47	0.53
1:M:401:LEU:HD22	1:M:411:TYR:CE1	2.44	0.53
1:J:412:PRO:O	1:J:413:SER:C	2.47	0.53
1:E:421:LEU:O	1:E:422:ASN:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:421:LEU:O	1:I:422:ASN:C	2.47	0.53
1:B:401:LEU:HD22	1:B:411:TYR:CE1	2.44	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:B:222:SER:OG	1:B:517:THR:HG22	2.09	0.53
1:E:270:ILE:HG23	1:E:361:ASN:HB3	1.90	0.53
1:O:222:SER:OG	1:O:517:THR:HG22	2.09	0.53
1:L:484:ILE:CD1	1:L:484:ILE:H	2.22	0.53
1:I:453:ASP:OD1	1:I:455:VAL:HG12	2.09	0.53
1:F:484:ILE:H	1:F:484:ILE:CD1	2.22	0.53
1:J:480:VAL:HG21	1:K:468:ARG:CG	2.37	0.53
1:G:505:ILE:HD11	1:G:530:ALA:CB	2.39	0.53
1:J:295:THR:OG1	1:J:332:VAL:HG12	2.09	0.53
1:C:295:THR:OG1	1:C:332:VAL:HG12	2.09	0.53
1:J:207:ILE:N	1:J:211:HIS:HD2	2.07	0.53
1:C:336:HIS:CG	1:C:708:ILE:HG22	2.43	0.53
1:H:206:TRP:HA	1:H:206:TRP:CE3	2.44	0.53
1:A:336:HIS:CG	1:A:708:ILE:HG22	2.43	0.53
1:L:207:ILE:N	1:L:211:HIS:HD2	2.07	0.53
1:A:206:TRP:HA	1:A:206:TRP:CE3	2.44	0.53
1:I:368:ASN:HB2	1:I:405:LEU:HG	1.91	0.53
1:I:660:TYR:HE2	1:I:710:PRO:HG3	1.74	0.53
1:A:489:ALA:O	1:A:504:ARG:HA	2.09	0.53
1:J:660:TYR:HE2	1:J:710:PRO:HG3	1.74	0.53
1:G:410:TYR:CD2	1:G:414:LYS:HE2	2.43	0.53
1:L:412:PRO:O	1:L:413:SER:C	2.47	0.53
1:B:412:PRO:O	1:B:413:SER:C	2.47	0.53
1:E:401:LEU:HD22	1:E:411:TYR:CE1	2.44	0.53
1:E:412:PRO:O	1:E:413:SER:C	2.47	0.53
1:D:401:LEU:O	1:D:401:LEU:HD12	2.10	0.53
1:A:403:GLN:N	1:A:403:GLN:HE21	1.99	0.53
1:A:222:SER:OG	1:A:517:THR:HG22	2.09	0.53
1:J:222:SER:OG	1:J:517:THR:HG22	2.09	0.53
1:L:222:SER:OG	1:L:517:THR:HG22	2.09	0.53
1:C:521:MET:CE	1:C:521:MET:HA	2.36	0.53
1:M:453:ASP:OD1	1:M:455:VAL:HG12	2.08	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: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:489:ALA:O	1:D:504:ARG:HA	2.09	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:M:660:TYR:HE2	1:M:710:PRO:HG3	1.74	0.53
1:G:660:TYR:HE2	1:G:710:PRO:HG3	1.74	0.53
1:K:533:PHE:CE2	1:K:542:TYR:HB2	2.44	0.53
1:M:255:LEU:HD22	1:M:506:ALA:HB3	1.90	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:I:401:LEU:HD22	1:I:411:TYR:CE1	2.44	0.52
1:K:403:GLN:N	1:K:403:GLN:HE21	1.99	0.52
1:C:222:SER:OG	1:C:517:THR:HG22	2.09	0.52
1:B:319:SER:N	1:C:414:LYS:HE3	2.24	0.52
1:J:401:LEU:HD12	1:J:401:LEU:O	2.10	0.52
1:B:421:LEU:O	1:B:422:ASN:C	2.47	0.52
1:G:421:LEU:O	1:G:422:ASN:C	2.47	0.52
1:K:421:LEU:O	1:K:422:ASN:C	2.47	0.52
1:A:201:THR:N	1:F:224:GLU:OE2	2.41	0.52
1:E:411:TYR:HD2	1:E:412:PRO:HD3	1.74	0.52
1:F:401:LEU:HD12	1:F:401:LEU:O	2.10	0.52
1:D:412:PRO:O	1:D:413:SER:C	2.47	0.52
1:G:222:SER:OG	1:G:517:THR:HG22	2.09	0.52
1:D:453:ASP:OD1	1:D:455:VAL:HG12	2.09	0.52
1:K:248:SER:OG	1:K:371:THR:HA	2.10	0.52
1:E:505:ILE:HD11	1:E:530:ALA:CB	2.39	0.52
1:D:206:TRP:HA	1:D:206:TRP:CE3	2.44	0.52
1:A:207:ILE:N	1:A:211:HIS:HD2	2.07	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:645:GLU:HB2	1:M:654:GLU:O	2.08	0.52
1:H:489:ALA:O	1:H:504:ARG:HA	2.09	0.52
1:F:533:PHE:CE2	1:F:542:TYR:HB2	2.45	0.52
1:M:533:PHE:CE2	1:M:542:TYR:HB2	2.45	0.52
1:K:489:ALA:O	1:K:504:ARG:HA	2.09	0.52
1:A:464:PHE:CD2	1:A:464:PHE:N	2.74	0.52
1:K:401:LEU:HD22	1:K:411:TYR:CE1	2.44	0.52
1:O:411:TYR:HD2	1:O:412:PRO:HD3	1.74	0.52
1:O:412:PRO:O	1:O:413:SER:C	2.47	0.52
1:K:484:ILE:CD1	1:K:484:ILE:H	2.21	0.52
1:H:516:THR:HG21	1:I:196:VAL:HG21	1.90	0.52
1:J:484:ILE:H	1:J:484:ILE:CD1	2.21	0.52
1:H:336:HIS:CG	1:H:708:ILE:HG22	2.43	0.52
1:I:207:ILE:N	1:I:211:HIS:HD2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:255:LEU:HD22	1:C:506:ALA:HB3	1.90	0.52
1:I:263:HIS:CD2	1:I:297:ARG:HG3	2.45	0.52
1:J:533:PHE:CE2	1:J:542:TYR:HB2	2.45	0.52
1:G:645:GLU:HB2	1:G:654:GLU:O	2.08	0.52
1:K:645:GLU:HB2	1:K:654:GLU:O	2.08	0.52
1:G:316:ILE:HD12	1:H:496:LYS:CG	2.40	0.52
1:J:401:LEU:HD22	1:J:411:TYR:CE1	2.44	0.52
1:A:401:LEU:O	1:A:401:LEU:HD12	2.10	0.52
1:D:521:MET:HA	1:D:521:MET:CE	2.37	0.52
1:J:521:MET:HE2	1:J:525:GLU:HB3	1.91	0.52
1:M:524:LYS:CD	1:M:579:ASP:HB3	2.36	0.52
1:E:206:TRP:HA	1:E:206:TRP:CE3	2.44	0.52
1:B:336:HIS:CG	1:B:708:ILE:HG22	2.43	0.52
1:C:263:HIS:CD2	1:C:297:ARG:HG3	2.45	0.52
1:B:263:HIS:CD2	1:B:297:ARG:HG3	2.45	0.52
1:M:263:HIS:CD2	1:M:297:ARG:HG3	2.45	0.52
1:H:660:TYR:HE2	1:H:710:PRO:HG3	1.74	0.52
1:C:489:ALA:O	1:C:504:ARG:HA	2.09	0.52
1:A:533:PHE:CE2	1:A:542:TYR:HB2	2.45	0.52
1:G:401:LEU:HD22	1:G:411:TYR:CE1	2.44	0.52
1:I:411:TYR:HD2	1:I:412:PRO:HD3	1.74	0.52
1:C:189:VAL:CG1	1:O:199:LYS:HG2	2.39	0.52
1:B:319:SER:HA	1:C:414:LYS:CB	2.40	0.52
1:H:222:SER:OG	1:H:517:THR:HG22	2.09	0.52
1:A:421:LEU:O	1:A:422:ASN:C	2.47	0.52
1:D:421:LEU:O	1:D:422:ASN:C	2.47	0.52
1:L:421:LEU:O	1:L:422:ASN:C	2.47	0.52
1:B:401:LEU:O	1:B:401:LEU:HD12	2.10	0.52
1:D:401:LEU:HD22	1:D:411:TYR:CE1	2.44	0.52
1:L:248:SER:OG	1:L:371:THR:HA	2.10	0.52
1:D:248:SER:OG	1:D:371:THR:HA	2.10	0.52
1:M:295:THR:OG1	1:M:332:VAL:HG12	2.09	0.52
1:D:295:THR:OG1	1:D:332:VAL:HG12	2.09	0.52
1:E:207:ILE:N	1:E:211:HIS:HD2	2.07	0.52
1:H:207:ILE:N	1:H:211:HIS:HD2	2.07	0.52
1:G:207:ILE:N	1:G:211:HIS:HD2	2.07	0.52
1:D:255:LEU:HD22	1:D:506:ALA:HB3	1.90	0.52
1:I:533:PHE:CE2	1:I:542:TYR:HB2	2.45	0.52
1:H:645:GLU:HB2	1:H:654:GLU:O	2.08	0.52
1:O:263:HIS:CD2	1:O:297:ARG:HG3	2.45	0.52
1:L:660:TYR:HE2	1:L:710:PRO:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:533:PHE:CE2	1:G:542:TYR:HB2	2.45	0.52
1:F:217:THR:HG22	1:F:218:LYS:N	2.23	0.52
1:G:401:LEU:O	1:G:401:LEU:HD12	2.10	0.52
1:F:421:LEU:O	1:F:422:ASN:C	2.47	0.52
1:F:412:PRO:O	1:F:413:SER:C	2.47	0.52
1:G:524:LYS:CD	1:G:579:ASP:HB3	2.36	0.52
1:M:248:SER:OG	1:M:371:THR:HA	2.10	0.52
1:G:248:SER:OG	1:G:371:THR:HA	2.10	0.52
1:D:484:ILE:H	1:D:484:ILE:CD1	2.22	0.52
1:L:295:THR:OG1	1:L:332:VAL:HG12	2.09	0.52
1:B:295:THR:OG1	1:B:332:VAL:HG12	2.09	0.52
1:L:206:TRP:HA	1:L:206:TRP:CE3	2.44	0.52
1:B:533:PHE:CE2	1:B:542:TYR:HB2	2.45	0.52
1:L:263:HIS:CD2	1:L:297:ARG:HG3	2.45	0.52
1:L:533:PHE:CE2	1:L:542:TYR:HB2	2.45	0.52
1:G:263:HIS:CD2	1:G:297:ARG:HG3	2.45	0.52
1:H:263:HIS:CD2	1:H:297:ARG:HG3	2.45	0.52
1:I:412:PRO:O	1:I:413:SER:C	2.47	0.52
1:H:411:TYR:HD2	1:H:412:PRO:HD3	1.74	0.52
1:L:411:TYR:HD2	1:L:412:PRO:HD3	1.74	0.52
1:K:316:ILE:HD12	1:L:496:LYS:CD	2.39	0.52
1:B:410:TYR:CD2	1:B:414:LYS:HE2	2.43	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:336:HIS:CG	1:K:708:ILE:HG22	2.43	0.52
1:H:533:PHE:CE2	1:H:542:TYR:HB2	2.44	0.52
1:O:533:PHE:CE2	1:O:542:TYR:HB2	2.45	0.52
1:D:263:HIS:CD2	1:D:297:ARG:HG3	2.45	0.52
1:F:255:LEU:HD22	1:F:506:ALA:HB3	1.90	0.52
1:E:533:PHE:CE2	1:E:542:TYR:HB2	2.45	0.52
1:K:255:LEU:HD22	1:K:506:ALA:HB3	1.90	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:O:248:SER:OG	1:O:371:THR:HA	2.10	0.52
1:J:505:ILE:HD11	1:J:530:ALA:CB	2.39	0.52
1:F:295:THR:OG1	1:F:332:VAL:HG12	2.09	0.52
1:C:207:ILE:N	1:C:211:HIS:HD2	2.07	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:K:263:HIS:CD2	1:K:297:ARG:HG3	2.45	0.52
1:G:489:ALA:O	1:G:504:ARG:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:660:TYR:HE2	1:C:710:PRO:HG3	1.74	0.52
1:G:414:LYS:HG3	1:M:319:SER:H	0.49	0.52
1:C:412:PRO:O	1:C:413:SER:C	2.47	0.52
1:L:401:LEU:HD22	1:L:411:TYR:CE1	2.44	0.52
1:I:325:SER:OG	1:J:415:ASN:ND2	2.42	0.52
1:C:421:LEU:O	1:C:422:ASN:C	2.47	0.52
1:B:515:GLU:OE1	1:C:245:LYS:HE2	2.09	0.52
1:G:270:ILE:HG23	1:G:361:ASN:HB3	1.90	0.52
1:D:178:ARG:CZ	1:E:200:ARG:HB3	2.40	0.52
1:G:466:ASN:HB2	1:M:226:TRP:CE3	2.44	0.52
1:M:484:ILE:CD1	1:M:484:ILE:H	2.22	0.52
1:G:484:ILE:H	1:G:484:ILE:CD1	2.22	0.52
1:L:260:PRO:HD3	1:L:477:TRP:CH2	2.45	0.52
1:H:260:PRO:HD3	1:H:477:TRP:CH2	2.45	0.52
1:K:260:PRO:HD3	1:K:477:TRP:CH2	2.45	0.52
1:F:505:ILE:HD11	1:F:530:ALA:CB	2.39	0.52
1:H:505:ILE:HD11	1:H:530:ALA:CB	2.39	0.52
1:M:262:VAL:CG1	1:M:379:PRO:HG2	2.38	0.52
1:A:295:THR:OG1	1:A:332:VAL:HG12	2.09	0.52
1:G:295:THR:OG1	1:G:332:VAL:HG12	2.09	0.52
1:F:207:ILE:N	1:F:211:HIS:HD2	2.07	0.52
1:K:207:ILE:N	1:K:211:HIS:HD2	2.07	0.52
1:E:368:ASN:HB2	1:E:405:LEU:HG	1.91	0.52
1:O:368:ASN:HB2	1:O:405:LEU:HG	1.91	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:G:493:PHE:HB3	1:G:531:PHE:CE1	2.45	0.52
1:M:493:PHE:HB3	1:M:531:PHE:CE1	2.45	0.52
1:K:493:PHE:HB3	1:K:531:PHE:CE1	2.45	0.52
1:J:345:THR:HG22	1:J:347:ALA:HB3	1.92	0.52
1:D:345:THR:HG22	1:D:347:ALA:HB3	1.92	0.52
1:B:255:LEU:HD22	1:B:506:ALA:HB3	1.90	0.52
1:K:401:LEU:O	1:K:401:LEU:HD12	2.10	0.52
1:K:411:TYR:HD2	1:K:412:PRO:HD3	1.74	0.52
1:M:412:PRO:O	1:M:413:SER:C	2.47	0.52
1:B:411:TYR:HD2	1:B:412:PRO:HD3	1.74	0.52
1:H:270:ILE:HG23	1:H:361:ASN:HB3	1.90	0.52
1:M:521:MET:HE1	1:M:525:GLU:CG	2.35	0.52
1:E:260:PRO:HD3	1:E:477:TRP:CH2	2.45	0.52
1:C:248:SER:OG	1:C:371:THR:HA	2.10	0.52
1:F:248:SER:OG	1:F:371:THR:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:PRO:HD3	1:F:477:TRP:CH2	2.45	0.52
1:G:368:ASN:HB2	1:G:405:LEU:HG	1.91	0.52
1:E:493:PHE:HB3	1:E:531:PHE:CE1	2.45	0.52
1:D:493:PHE:HB3	1:D:531:PHE:CE1	2.45	0.52
1:O:493:PHE:HB3	1:O:531:PHE:CE1	2.45	0.52
1:D:533:PHE:CE2	1:D:542:TYR:HB2	2.45	0.52
1:I:645:GLU:HB2	1:I:654:GLU:O	2.08	0.52
1:B:489:ALA:O	1:B:504:ARG:HA	2.09	0.52
1:O:489:ALA:O	1:O:504:ARG:HA	2.09	0.52
1:F:660:TYR:HE2	1:F:710:PRO:HG3	1.74	0.52
1:G:367:VAL:HG13	1:G:367:VAL:O	2.10	0.52
1:C:411:TYR:HD2	1:C:412:PRO:HD3	1.74	0.52
1:F:270:ILE:HG23	1:F:361:ASN:HB3	1.90	0.52
1:A:521:MET:HE2	1:A:525:GLU:HB3	1.91	0.52
1:G:466:ASN:C	1:M:226:TRP:CB	2.79	0.52
1:O:453:ASP:OD1	1:O:455:VAL:HG12	2.09	0.52
1:C:484:ILE:CD1	1:C:484:ILE:H	2.21	0.52
1:A:260:PRO:HD3	1:A:477:TRP:CH2	2.45	0.52
1:H:248:SER:OG	1:H:371:THR:HA	2.10	0.52
1:D:260:PRO:HD3	1:D:477:TRP:CH2	2.45	0.52
1:J:483:GLN:HE21	1:K:469:VAL:HG21	1.72	0.52
1:M:368:ASN:HB2	1:M:405:LEU:HG	1.91	0.52
1:A:368:ASN:HB2	1:A:405:LEU:HG	1.91	0.52
1:I:493:PHE:HB3	1:I:531:PHE:CE1	2.45	0.52
1:O:255:LEU:HD22	1:O:506:ALA:HB3	1.90	0.52
1:E:489:ALA:O	1:E:504:ARG:HA	2.09	0.52
1:G:670:GLN:O	1:M:314:PHE:HZ	1.92	0.52
1:L:489:ALA:O	1:L:504:ARG:HA	2.09	0.52
1:L:345:THR:HG22	1:L:347:ALA:HB3	1.92	0.52
1:H:345:THR:HG22	1:H:347:ALA:HB3	1.92	0.52
1:K:345:THR:HG22	1:K:347:ALA:HB3	1.92	0.52
1:G:411:TYR:HD2	1:G:412:PRO:HD3	1.74	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:367:VAL:HG13	1:A:367:VAL:O	2.10	0.51
1:O:260:PRO:HD3	1:O:477:TRP:CH2	2.45	0.51
1:E:248:SER:OG	1:E:371:THR:HA	2.10	0.51
1:C:260:PRO:HD3	1:C:477:TRP:CH2	2.45	0.51
1:F:206:TRP:CE3	1:F:206:TRP:HA	2.44	0.51
1:O:207:ILE:N	1:O:211:HIS:HD2	2.07	0.51
1:J:493:PHE:HB3	1:J:531:PHE:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:493:PHE:HB3	1:L:531:PHE:CE1	2.45	0.51
1:C:533:PHE:CE2	1:C:542:TYR:HB2	2.44	0.51
1:A:263:HIS:CD2	1:A:297:ARG:HG3	2.45	0.51
1:H:367:VAL:O	1:H:367:VAL:HG13	2.10	0.51
1:H:401:LEU:HD12	1:H:401:LEU:O	2.10	0.51
1:C:367:VAL:O	1:C:367:VAL:HG13	2.10	0.51
1:L:403:GLN:N	1:L:403:GLN:NE2	2.47	0.51
1:J:411:TYR:HD2	1:J:412:PRO:HD3	1.74	0.51
1:O:421:LEU:O	1:O:422:ASN:C	2.47	0.51
1:E:401:LEU:O	1:E:401:LEU:HD12	2.10	0.51
1:F:367:VAL:HG13	1:F:367:VAL:O	2.10	0.51
1:F:524:LYS:CD	1:F:579:ASP:HB3	2.36	0.51
1:G:260:PRO:HD3	1:G:477:TRP:CH2	2.45	0.51
1:I:260:PRO:HD3	1:I:477:TRP:CH2	2.45	0.51
1:A:248:SER:OG	1:A:371:THR:HA	2.10	0.51
1:J:232:PRO:HA	1:K:468:ARG:HH22	1.75	0.51
1:I:505:ILE:HD11	1:I:530:ALA:CB	2.39	0.51
1:D:207:ILE:N	1:D:211:HIS:HD2	2.07	0.51
1:I:206:TRP:CE3	1:I:206:TRP:HA	2.44	0.51
1:C:345:THR:HG22	1:C:347:ALA:HB3	1.92	0.51
1:A:305:GLY:C	1:B:670:GLN:HG3	2.30	0.51
1:M:401:LEU:HD12	1:M:401:LEU:O	2.10	0.51
1:G:245:LYS:HE2	1:M:515:GLU:OE1	2.10	0.51
1:A:412:PRO:O	1:A:413:SER:C	2.47	0.51
1:B:524:LYS:CD	1:B:579:ASP:HB3	2.36	0.51
1:B:248:SER:OG	1:B:371:THR:HA	2.10	0.51
1:J:260:PRO:HD3	1:J:477:TRP:CH2	2.45	0.51
1:C:584:ASN:H	1:C:587:MET:HE1	1.74	0.51
1:G:464:PHE:N	1:G:464:PHE:HD2	2.09	0.51
1:F:489:ALA:O	1:F:504:ARG:HA	2.09	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:G:255:LEU:HD22	1:G:506:ALA:HB3	1.90	0.51
1:B:345:THR:HG22	1:B:347:ALA:HB3	1.92	0.51
1:C:401:LEU:HD22	1:C:411:TYR:CE1	2.44	0.51
1:A:411:TYR:HD2	1:A:412:PRO:HD3	1.74	0.51
1:M:270:ILE:O	1:M:270:ILE:HG23	2.11	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:A:493:PHE:HB3	1:A:531:PHE:CE1	2.45	0.51
1:D:660:TYR:HB2	1:D:707:ILE:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:345:THR:HG22	1:E:347:ALA:HB3	1.92	0.51
1:I:489:ALA:O	1:I:504:ARG:HA	2.09	0.51
1:I:270:ILE:O	1:I:270:ILE:HG23	2.11	0.51
1:G:270:ILE:O	1:G:270:ILE:HG23	2.11	0.51
1:G:466:ASN:CB	1:M:226:TRP:CD2	2.92	0.51
1:I:248:SER:OG	1:I:371:THR:HA	2.10	0.51
1:L:505:ILE:HD11	1:L:530:ALA:CB	2.39	0.51
1:F:261:ILE:O	1:F:369:THR:HG22	2.11	0.51
1:J:206:TRP:HA	1:J:206:TRP:CE3	2.44	0.51
1:H:493:PHE:HB3	1:H:531:PHE:CE1	2.45	0.51
1:G:660:TYR:HB2	1:G:707:ILE:HG13	1.93	0.51
1:C:660:TYR:HB2	1:C:707:ILE:HG13	1.93	0.51
1:I:367:VAL:HG13	1:I:367:VAL:O	2.10	0.51
1:D:394:ILE:HD13	1:D:421:LEU:HD21	1.93	0.51
1:D:367:VAL:HG13	1:D:367:VAL:O	2.10	0.51
1:L:271:LEU:CD1	1:L:289:ILE:HD11	2.36	0.51
1:B:270:ILE:HG23	1:B:270:ILE:O	2.11	0.51
1:A:524:LYS:CD	1:A:579:ASP:HB3	2.36	0.51
1:H:607:ALA:H	1:H:638:ILE:CD1	2.20	0.51
1:G:468:ARG:CG	1:M:480:VAL:CG2	2.88	0.51
1:O:725:LEU:HD23	1:O:725:LEU:C	2.31	0.51
1:H:368:ASN:HB2	1:H:405:LEU:HG	1.91	0.51
1:I:464:PHE:N	1:I:464:PHE:HD2	2.09	0.51
1:B:660:TYR:HB2	1:B:707:ILE:HG13	1.93	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:K:660:TYR:HE2	1:K:710:PRO:HG3	1.74	0.51
1:C:401:LEU:HD12	1:C:401:LEU:O	2.10	0.51
1:J:367:VAL:HG13	1:J:367:VAL:O	2.10	0.51
1:J:394:ILE:HD13	1:J:421:LEU:HD21	1.93	0.51
1:D:403:GLN:NE2	1:D:403:GLN:N	2.47	0.51
1:L:270:ILE:O	1:L:270:ILE:HG23	2.11	0.51
1:A:270:ILE:O	1:A:270:ILE:HG23	2.11	0.51
1:L:517:THR:HA	1:M:199:LYS:O	2.09	0.51
1:M:260:PRO:HD3	1:M:477:TRP:CH2	2.45	0.51
1:B:521:MET:HE1	1:B:525:GLU:CG	2.37	0.51
1:G:261:ILE:O	1:G:369:THR:HG22	2.11	0.51
1:A:725:LEU:C	1:A:725:LEU:HD23	2.31	0.51
1:B:493:PHE:HB3	1:B:531:PHE:CE1	2.45	0.51
1:K:464:PHE:N	1:K:464:PHE:HD2	2.09	0.51
1:D:464:PHE:N	1:D:464:PHE:HD2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:464:PHE:N	1:M:464:PHE:HD2	2.09	0.51
1:D:724:ILE:O	1:D:726:ILE:HD13	2.11	0.51
1:C:724:ILE:O	1:C:726:ILE:HD13	2.11	0.51
1:C:187:LEU:HD21	1:C:205:PRO:HD3	1.93	0.51
1:L:401:LEU:O	1:L:401:LEU:HD12	2.10	0.51
1:O:394:ILE:HD13	1:O:421:LEU:HD21	1.93	0.51
1:D:270:ILE:HG23	1:D:270:ILE:O	2.11	0.51
1:E:271:LEU:CD1	1:E:289:ILE:HD11	2.36	0.51
1:O:270:ILE:O	1:O:270:ILE:HG23	2.11	0.51
1:G:204:SER:OG	1:G:205:PRO:HD2	2.11	0.51
1:E:483:GLN:NE2	1:F:245:LYS:H	2.07	0.51
1:A:261:ILE:O	1:A:369:THR:HG22	2.11	0.51
1:M:725:LEU:HD23	1:M:725:LEU:C	2.31	0.51
1:G:725:LEU:HD23	1:G:725:LEU:C	2.31	0.51
1:H:725:LEU:C	1:H:725:LEU:HD23	2.31	0.51
1:L:464:PHE:N	1:L:464:PHE:HD2	2.09	0.51
1:B:384:VAL:HG12	1:B:385:LEU:N	2.26	0.51
1:E:724:ILE:O	1:E:726:ILE:HD13	2.11	0.51
1:G:403:GLN:N	1:G:403:GLN:HE21	1.99	0.51
1:L:367:VAL:O	1:L:367:VAL:HG13	2.10	0.51
1:F:204:SER:OG	1:F:205:PRO:HD2	2.11	0.51
1:K:270:ILE:O	1:K:270:ILE:HG23	2.11	0.51
1:H:270:ILE:HG23	1:H:270:ILE:O	2.11	0.51
1:I:187:LEU:HD21	1:I:205:PRO:HD3	1.93	0.51
1:G:200:ARG:N	1:G:200:ARG:CD	2.71	0.51
1:L:204:SER:OG	1:L:205:PRO:HD2	2.11	0.51
1:M:261:ILE:O	1:M:369:THR:HG22	2.11	0.51
1:C:261:ILE:O	1:C:369:THR:HG22	2.11	0.51
1:F:464:PHE:N	1:F:464:PHE:HD2	2.09	0.51
1:H:464:PHE:HD2	1:H:464:PHE:N	2.09	0.51
1:A:660:TYR:HB2	1:A:707:ILE:HG13	1.93	0.51
1:H:724:ILE:O	1:H:726:ILE:HD13	2.11	0.51
1:A:480:VAL:HG21	1:B:468:ARG:HH11	1.76	0.51
1:K:384:VAL:HG12	1:K:385:LEU:N	2.26	0.51
1:I:401:LEU:O	1:I:401:LEU:HD12	2.10	0.51
1:H:487:THR:HG21	1:I:245:LYS:HG3	1.93	0.51
1:C:394:ILE:HD13	1:C:421:LEU:HD21	1.93	0.51
1:G:394:ILE:HD13	1:G:421:LEU:HD21	1.93	0.51
1:E:367:VAL:O	1:E:367:VAL:HG13	2.10	0.51
1:I:204:SER:OG	1:I:205:PRO:HD2	2.11	0.51
1:L:483:GLN:HE22	1:M:245:LYS:H	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:481:LEU:O	1:L:481:LEU:HD23	2.11	0.51
1:I:481:LEU:O	1:I:481:LEU:HD23	2.11	0.51
1:J:248:SER:OG	1:J:371:THR:HA	2.10	0.51
1:J:725:LEU:HD23	1:J:725:LEU:C	2.31	0.51
1:C:493:PHE:HB3	1:C:531:PHE:CE1	2.45	0.51
1:A:724:ILE:O	1:A:726:ILE:HD13	2.11	0.51
1:M:724:ILE:O	1:M:726:ILE:HD13	2.11	0.51
1:I:401:LEU:HD12	1:I:401:LEU:C	2.32	0.50
1:K:401:LEU:HD12	1:K:401:LEU:C	2.32	0.50
1:C:401:LEU:HD12	1:C:401:LEU:C	2.32	0.50
1:L:401:LEU:HD12	1:L:401:LEU:C	2.32	0.50
1:A:199:LYS:CG	1:F:189:VAL:CG1	2.89	0.50
1:F:187:LEU:HD21	1:F:205:PRO:HD3	1.93	0.50
1:E:401:LEU:C	1:E:401:LEU:HD12	2.32	0.50
1:C:271:LEU:HB2	1:C:289:ILE:CG1	2.42	0.50
1:E:271:LEU:HB2	1:E:289:ILE:CG1	2.42	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
1:B:261:ILE:O	1:B:369:THR:HG22	2.11	0.50
1:L:187:LEU:HD21	1:L:205:PRO:HD3	1.93	0.50
1:J:187:LEU:HD21	1:J:205:PRO:HD3	1.93	0.50
1:K:481:LEU:O	1:K:481:LEU:HD23	2.11	0.50
1:M:187:LEU:HD21	1:M:205:PRO:HD3	1.93	0.50
1:B:204:SER:OG	1:B:205:PRO:HD2	2.11	0.50
1:K:261:ILE:O	1:K:369:THR:HG22	2.11	0.50
1:D:261:ILE:O	1:D:369:THR:HG22	2.11	0.50
1:C:442:LEU:CD1	1:C:448:LEU:HD21	2.41	0.50
1:O:442:LEU:CD1	1:O:448:LEU:HD21	2.41	0.50
1:D:442:LEU:CD1	1:D:448:LEU:HD21	2.41	0.50
1:K:725:LEU:C	1:K:725:LEU:HD23	2.31	0.50
1:F:725:LEU:HD23	1:F:725:LEU:C	2.31	0.50
1:G:384:VAL:HG12	1:G:385:LEU:N	2.26	0.50
1:K:724:ILE:O	1:K:726:ILE:HD13	2.11	0.50
1:G:345:THR:HG22	1:G:347:ALA:HB3	1.92	0.50
1:M:401:LEU:HD12	1:M:401:LEU:C	2.32	0.50
1:I:303:VAL:CG2	1:J:670:GLN:HG2	2.41	0.50
1:B:367:VAL:HG13	1:B:367:VAL:O	2.10	0.50
1:F:515:GLU:HG3	1:F:518:LYS:HD2	1.93	0.50
1:L:271:LEU:HB2	1:L:289:ILE:CG1	2.42	0.50
1:G:178:ARG:HH12	1:H:200:ARG:HB3	1.76	0.50
1:J:270:ILE:HG23	1:J:270:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:521:MET:HE2	1:L:525:GLU:HB3	1.92	0.50
1:H:204:SER:OG	1:H:205:PRO:HD2	2.11	0.50
1:K:505:ILE:HD11	1:K:530:ALA:CB	2.39	0.50
1:L:442:LEU:CD1	1:L:448:LEU:HD21	2.42	0.50
1:B:725:LEU:C	1:B:725:LEU:HD23	2.31	0.50
1:L:725:LEU:C	1:L:725:LEU:HD23	2.31	0.50
1:A:326:ASN:HB3	1:A:485:GLN:HE22	1.77	0.50
1:D:645:GLU:HG3	1:D:697:ASN:HB2	1.94	0.50
1:K:660:TYR:HB2	1:K:707:ILE:HG13	1.93	0.50
1:E:384:VAL:HG12	1:E:385:LEU:N	2.26	0.50
1:L:384:VAL:HG12	1:L:385:LEU:N	2.26	0.50
1:M:515:GLU:HG3	1:M:518:LYS:HD2	1.94	0.50
1:C:270:ILE:O	1:C:270:ILE:HG23	2.11	0.50
1:D:271:LEU:HB2	1:D:289:ILE:CG1	2.42	0.50
1:M:271:LEU:HB2	1:M:289:ILE:CG1	2.41	0.50
1:O:271:LEU:HB2	1:O:289:ILE:CG1	2.42	0.50
1:J:271:LEU:HB2	1:J:289:ILE:CG1	2.42	0.50
1:J:515:GLU:HG3	1:J:518:LYS:HD2	1.94	0.50
1:O:481:LEU:HD23	1:O:481:LEU:O	2.11	0.50
1:O:187:LEU:HD21	1:O:205:PRO:HD3	1.93	0.50
1:J:481:LEU:HD23	1:J:481:LEU:O	2.11	0.50
1:I:326:ASN:HB3	1:I:485:GLN:HE22	1.77	0.50
1:O:660:TYR:HB2	1:O:707:ILE:HG13	1.93	0.50
1:B:724:ILE:O	1:B:726:ILE:HD13	2.11	0.50
1:F:345:THR:HG22	1:F:347:ALA:HB3	1.92	0.50
1:J:384:VAL:HG12	1:J:385:LEU:N	2.26	0.50
1:M:367:VAL:O	1:M:367:VAL:HG13	2.10	0.50
1:E:394:ILE:HD13	1:E:421:LEU:HD21	1.93	0.50
1:G:306:ASN:HA	1:H:669:ARG:CG	2.41	0.50
1:O:515:GLU:HG3	1:O:518:LYS:HD2	1.94	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:H:481:LEU:HD23	1:H:481:LEU:O	2.11	0.50
1:D:184:PRO:O	1:D:185:ASP:C	2.50	0.50
1:J:442:LEU:CD1	1:J:448:LEU:HD21	2.41	0.50
1:E:584:ASN:H	1:E:587:MET:HE1	1.75	0.50
1:E:442:LEU:CD1	1:E:448:LEU:HD21	2.41	0.50
1:B:442:LEU:CD1	1:B:448:LEU:HD21	2.42	0.50
1:M:326:ASN:HB3	1:M:485:GLN:HE22	1.77	0.50
1:C:326:ASN:HB3	1:C:485:GLN:HE22	1.77	0.50
1:B:464:PHE:HD2	1:B:464:PHE:N	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:645:GLU:HG3	1:G:697:ASN:HB2	1.94	0.50
1:H:645:GLU:HG3	1:H:697:ASN:HB2	1.94	0.50
1:C:204:SER:OG	1:C:205:PRO:HD2	2.11	0.50
1:M:377:VAL:CG1	1:M:398:GLU:HG3	2.41	0.50
1:B:394:ILE:HD13	1:B:421:LEU:HD21	1.93	0.50
1:L:394:ILE:HD13	1:L:421:LEU:HD21	1.93	0.50
1:D:496:LYS:HB3	1:O:316:ILE:HD12	1.92	0.50
1:O:367:VAL:HG13	1:O:367:VAL:O	2.10	0.50
1:E:204:SER:OG	1:E:205:PRO:HD2	2.11	0.50
1:E:187:LEU:HD21	1:E:205:PRO:HD3	1.93	0.50
1:I:515:GLU:HG3	1:I:518:LYS:HD2	1.93	0.50
1:E:521:MET:CE	1:E:521:MET:HA	2.37	0.50
1:O:261:ILE:O	1:O:369:THR:HG22	2.11	0.50
1:I:258:ALA:O	1:I:372:ALA:HB2	2.12	0.50
1:B:258:ALA:O	1:B:372:ALA:HB2	2.12	0.50
1:C:258:ALA:O	1:C:372:ALA:HB2	2.12	0.50
1:A:258:ALA:O	1:A:372:ALA:HB2	2.12	0.50
1:H:187:LEU:HD21	1:H:205:PRO:HD3	1.93	0.50
1:D:187:LEU:HD21	1:D:205:PRO:HD3	1.93	0.50
1:B:505:ILE:HD11	1:B:530:ALA:CB	2.39	0.50
1:E:261:ILE:O	1:E:369:THR:HG22	2.11	0.50
1:A:442:LEU:CD1	1:A:448:LEU:HD21	2.42	0.50
1:I:261:ILE:O	1:I:369:THR:HG22	2.11	0.50
1:C:725:LEU:HD23	1:C:725:LEU:C	2.31	0.50
1:D:725:LEU:HD23	1:D:725:LEU:C	2.31	0.50
1:H:326:ASN:HB3	1:H:485:GLN:HE22	1.76	0.50
1:D:326:ASN:HB3	1:D:485:GLN:HE22	1.77	0.50
1:J:645:GLU:HG3	1:J:697:ASN:HB2	1.94	0.50
1:K:645:GLU:HG3	1:K:697:ASN:HB2	1.94	0.50
1:I:645:GLU:HG3	1:I:697:ASN:HB2	1.94	0.50
1:J:724:ILE:O	1:J:726:ILE:HD13	2.11	0.50
1:C:384:VAL:HG12	1:C:385:LEU:N	2.26	0.50
1:L:724:ILE:O	1:L:726:ILE:HD13	2.11	0.50
1:G:401:LEU:C	1:G:401:LEU:HD12	2.32	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:C:515:GLU:HG3	1:C:518:LYS:HD2	1.94	0.50
1:L:377:VAL:CG1	1:L:398:GLU:HG3	2.41	0.50
1:D:496:LYS:HB3	1:O:316:ILE:CD1	2.41	0.50
1:E:270:ILE:O	1:E:270:ILE:HG23	2.11	0.50
1:I:271:LEU:HB2	1:I:289:ILE:CG1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:271:LEU:HB2	1:B:289:ILE:CG1	2.42	0.50
1:D:515:GLU:HG3	1:D:518:LYS:HD2	1.94	0.50
1:K:184:PRO:O	1:K:185:ASP:C	2.50	0.50
1:C:639:LEU:N	1:C:639:LEU:HD22	2.27	0.50
1:M:481:LEU:O	1:M:481:LEU:HD23	2.11	0.50
1:B:481:LEU:HD23	1:B:481:LEU:O	2.11	0.50
1:D:204:SER:OG	1:D:205:PRO:HD2	2.11	0.50
1:B:184:PRO:O	1:B:185:ASP:C	2.50	0.50
1:C:505:ILE:HD11	1:C:530:ALA:CB	2.39	0.50
1:J:261:ILE:O	1:J:369:THR:HG22	2.11	0.50
1:L:261:ILE:O	1:L:369:THR:HG22	2.11	0.50
1:H:261:ILE:O	1:H:369:THR:HG22	2.11	0.50
1:A:645:GLU:HG3	1:A:697:ASN:HB2	1.94	0.50
1:C:483:GLN:NE2	1:O:245:LYS:H	2.10	0.50
1:L:645:GLU:HG3	1:L:697:ASN:HB2	1.94	0.50
1:O:384:VAL:HG12	1:O:385:LEU:N	2.26	0.50
1:F:724:ILE:O	1:F:726:ILE:HD13	2.11	0.50
1:H:401:LEU:C	1:H:401:LEU:HD12	2.32	0.50
1:K:377:VAL:CG1	1:K:398:GLU:HG3	2.41	0.50
1:G:308:GLU:HG2	1:H:667:SER:HB3	1.94	0.50
1:O:401:LEU:HD12	1:O:401:LEU:C	2.32	0.50
1:G:184:PRO:O	1:G:185:ASP:C	2.50	0.50
1:K:515:GLU:HG3	1:K:518:LYS:HD2	1.94	0.50
1:H:639:LEU:N	1:H:639:LEU:HD22	2.27	0.50
1:E:258:ALA:O	1:E:372:ALA:HB2	2.12	0.50
1:B:505:ILE:N	1:B:505:ILE:HD12	2.27	0.50
1:G:505:ILE:N	1:G:505:ILE:HD12	2.27	0.50
1:J:326:ASN:HB3	1:J:485:GLN:HE22	1.77	0.50
1:O:464:PHE:HD2	1:O:464:PHE:N	2.09	0.50
1:F:645:GLU:HG3	1:F:697:ASN:HB2	1.94	0.50
1:E:464:PHE:HD2	1:E:464:PHE:N	2.09	0.50
1:J:660:TYR:HB2	1:J:707:ILE:HG13	1.93	0.50
1:A:345:THR:HG22	1:A:347:ALA:HB3	1.92	0.50
1:G:724:ILE:O	1:G:726:ILE:HD13	2.11	0.50
1:O:345:THR:HG22	1:O:347:ALA:HB3	1.92	0.50
1:A:303:VAL:HG23	1:B:670:GLN:HG2	1.94	0.50
1:M:394:ILE:HD13	1:M:421:LEU:HD21	1.93	0.50
1:K:394:ILE:HD13	1:K:421:LEU:HD21	1.93	0.50
1:B:224:GLU:OE2	1:C:201:THR:N	2.45	0.50
1:A:401:LEU:HD12	1:A:401:LEU:C	2.32	0.50
1:G:187:LEU:HD21	1:G:205:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:271:LEU:HB2	1:A:289:ILE:CG1	2.42	0.50
1:E:184:PRO:O	1:E:185:ASP:C	2.50	0.50
1:F:200:ARG:CD	1:F:200:ARG:N	2.71	0.50
1:F:639:LEU:N	1:F:639:LEU:HD22	2.27	0.50
1:M:258:ALA:O	1:M:372:ALA:HB2	2.12	0.50
1:F:481:LEU:O	1:F:481:LEU:HD23	2.11	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:M:184:PRO:O	1:M:185:ASP:C	2.50	0.50
1:M:442:LEU:CD1	1:M:448:LEU:HD21	2.41	0.50
1:F:442:LEU:CD1	1:F:448:LEU:HD21	2.41	0.50
1:O:645:GLU:HG3	1:O:697:ASN:HB2	1.94	0.50
1:M:660:TYR:HB2	1:M:707:ILE:HG13	1.93	0.50
1:H:515:GLU:HG3	1:H:518:LYS:HD2	1.94	0.50
1:H:394:ILE:HD13	1:H:421:LEU:HD21	1.93	0.50
1:F:401:LEU:C	1:F:401:LEU:HD12	2.32	0.50
1:E:515:GLU:HG3	1:E:518:LYS:HD2	1.94	0.50
1:O:639:LEU:N	1:O:639:LEU:HD22	2.27	0.50
1:J:239:VAL:HG23	1:J:240:THR:N	2.27	0.50
1:G:258:ALA:O	1:G:372:ALA:HB2	2.12	0.50
1:C:481:LEU:HD23	1:C:481:LEU:O	2.11	0.50
1:K:239:VAL:HG23	1:K:240:THR:N	2.27	0.50
1:C:239:VAL:HG23	1:C:240:THR:N	2.27	0.50
1:D:505:ILE:HD11	1:D:530:ALA:CB	2.39	0.50
1:A:505:ILE:N	1:A:505:ILE:HD12	2.27	0.50
1:M:505:ILE:HD12	1:M:505:ILE:N	2.27	0.50
1:I:725:LEU:C	1:I:725:LEU:HD23	2.31	0.50
1:G:326:ASN:HB3	1:G:485:GLN:HE22	1.76	0.50
1:B:326:ASN:HB3	1:B:485:GLN:HE22	1.77	0.50
1:A:464:PHE:N	1:A:464:PHE:HD2	2.09	0.50
1:M:384:VAL:HG12	1:M:385:LEU:N	2.26	0.50
1:I:724:ILE:O	1:I:726:ILE:HD13	2.11	0.50
1:A:502:GLU:O	1:A:503:ARG:HG2	2.12	0.50
1:H:502:GLU:O	1:H:503:ARG:HG2	2.12	0.50
1:A:316:ILE:HD12	1:B:496:LYS:CB	2.41	0.49
1:A:199:LYS:CG	1:F:189:VAL:HG13	2.41	0.49
1:F:270:ILE:O	1:F:270:ILE:HG23	2.11	0.49
1:A:515:GLU:HG3	1:A:518:LYS:HD2	1.93	0.49
1:M:639:LEU:HD22	1:M:639:LEU:N	2.27	0.49
1:J:639:LEU:N	1:J:639:LEU:HD22	2.27	0.49
1:B:639:LEU:HD22	1:B:639:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:258:ALA:O	1:O:372:ALA:HB2	2.12	0.49
1:B:459:ILE:HG22	1:B:460:ALA:N	2.27	0.49
1:F:231:ASP:HB2	1:F:232:PRO:HD2	1.95	0.49
1:D:481:LEU:HD23	1:D:481:LEU:O	2.11	0.49
1:O:184:PRO:O	1:O:185:ASP:C	2.50	0.49
1:A:184:PRO:O	1:A:185:ASP:C	2.50	0.49
1:D:505:ILE:HD12	1:D:505:ILE:N	2.27	0.49
1:E:326:ASN:HB3	1:E:485:GLN:HE22	1.76	0.49
1:J:464:PHE:HD2	1:J:464:PHE:N	2.09	0.49
1:L:660:TYR:HB2	1:L:707:ILE:HG13	1.93	0.49
1:F:502:GLU:O	1:F:503:ARG:HG2	2.12	0.49
1:E:576:THR:C	1:E:578:LEU:H	2.16	0.49
1:O:724:ILE:O	1:O:726:ILE:HD13	2.11	0.49
1:B:576:THR:C	1:B:578:LEU:H	2.16	0.49
1:I:239:VAL:HG23	1:I:240:THR:N	2.27	0.49
1:K:204:SER:OG	1:K:205:PRO:HD2	2.11	0.49
1:K:639:LEU:N	1:K:639:LEU:HD22	2.27	0.49
1:E:481:LEU:HD23	1:E:481:LEU:O	2.11	0.49
1:L:459:ILE:HG22	1:L:460:ALA:N	2.27	0.49
1:A:481:LEU:HD23	1:A:481:LEU:O	2.11	0.49
1:A:204:SER:OG	1:A:205:PRO:HD2	2.11	0.49
1:M:204:SER:OG	1:M:205:PRO:HD2	2.11	0.49
1:B:187:LEU:HD21	1:B:205:PRO:HD3	1.93	0.49
1:E:226:TRP:CH2	1:E:234:SER:HB3	2.48	0.49
1:L:310:HIS:HD1	1:L:310:HIS:H	1.61	0.49
1:E:725:LEU:HD23	1:E:725:LEU:C	2.31	0.49
1:A:384:VAL:HG12	1:A:385:LEU:N	2.26	0.49
1:A:576:THR:C	1:A:578:LEU:H	2.16	0.49
1:H:384:VAL:HG12	1:H:385:LEU:N	2.26	0.49
1:O:576:THR:C	1:O:578:LEU:H	2.16	0.49
1:C:576:THR:C	1:C:578:LEU:H	2.16	0.49
1:F:384:VAL:HG12	1:F:385:LEU:N	2.26	0.49
1:I:394:ILE:HD13	1:I:421:LEU:HD21	1.93	0.49
1:M:512:ASP:CG	1:M:515:GLU:HB2	2.33	0.49
1:D:401:LEU:HD12	1:D:401:LEU:C	2.32	0.49
1:K:271:LEU:HB2	1:K:289:ILE:CG1	2.42	0.49
1:G:512:ASP:CG	1:G:515:GLU:HB2	2.33	0.49
1:A:512:ASP:OD1	1:B:245:LYS:HE3	2.13	0.49
1:E:512:ASP:CG	1:E:515:GLU:HB2	2.33	0.49
1:K:189:VAL:HG13	1:L:199:LYS:CG	2.43	0.49
1:K:515:GLU:OE1	1:L:245:LYS:HE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:459:ILE:HG22	1:M:460:ALA:N	2.27	0.49
1:O:607:ALA:H	1:O:638:ILE:CD1	2.20	0.49
1:A:639:LEU:N	1:A:639:LEU:HD22	2.27	0.49
1:L:239:VAL:HG23	1:L:240:THR:N	2.27	0.49
1:L:480:VAL:HG21	1:M:468:ARG:HG3	1.94	0.49
1:O:239:VAL:HG23	1:O:240:THR:N	2.27	0.49
1:I:231:ASP:HB2	1:I:232:PRO:HD2	1.95	0.49
1:G:239:VAL:HG23	1:G:240:THR:N	2.27	0.49
1:D:231:ASP:HB2	1:D:232:PRO:HD2	1.95	0.49
1:M:239:VAL:HG23	1:M:240:THR:N	2.27	0.49
1:B:479:GLU:HG2	1:C:471:VAL:CG2	2.41	0.49
1:H:505:ILE:HD12	1:H:505:ILE:N	2.27	0.49
1:A:226:TRP:CH2	1:A:234:SER:HB3	2.48	0.49
1:L:326:ASN:HB3	1:L:485:GLN:HE22	1.77	0.49
1:H:660:TYR:HB2	1:H:707:ILE:HG13	1.93	0.49
1:M:345:THR:HG22	1:M:347:ALA:HB3	1.92	0.49
1:B:515:GLU:HG3	1:B:518:LYS:HD2	1.93	0.49
1:F:271:LEU:HB2	1:F:289:ILE:CG1	2.42	0.49
1:G:271:LEU:HB2	1:G:289:ILE:CG1	2.42	0.49
1:D:512:ASP:CG	1:D:515:GLU:HB2	2.33	0.49
1:I:184:PRO:O	1:I:185:ASP:C	2.50	0.49
1:A:521:MET:CE	1:A:522:THR:H	2.26	0.49
1:G:468:ARG:NH2	1:M:232:PRO:HA	2.22	0.49
1:E:459:ILE:HG22	1:E:460:ALA:N	2.27	0.49
1:H:258:ALA:O	1:H:372:ALA:HB2	2.12	0.49
1:D:258:ALA:O	1:D:372:ALA:HB2	2.12	0.49
1:O:204:SER:OG	1:O:205:PRO:HD2	2.11	0.49
1:C:226:TRP:CH2	1:C:234:SER:HB3	2.48	0.49
1:G:226:TRP:CH2	1:G:234:SER:HB3	2.48	0.49
1:K:326:ASN:HB3	1:K:485:GLN:HE22	1.76	0.49
1:O:326:ASN:HB3	1:O:485:GLN:HE22	1.77	0.49
1:M:502:GLU:O	1:M:503:ARG:HG2	2.12	0.49
1:F:576:THR:C	1:F:578:LEU:H	2.16	0.49
1:H:316:ILE:CD1	1:I:496:LYS:HD3	2.42	0.49
1:C:184:PRO:O	1:C:185:ASP:C	2.50	0.49
1:B:377:VAL:CG1	1:B:398:GLU:HG3	2.41	0.49
1:L:410:TYR:CG	1:L:414:LYS:HE2	2.48	0.49
1:A:394:ILE:HD13	1:A:421:LEU:HD21	1.93	0.49
1:F:394:ILE:HD13	1:F:421:LEU:HD21	1.93	0.49
1:H:271:LEU:HB2	1:H:289:ILE:CG1	2.42	0.49
1:J:512:ASP:CG	1:J:515:GLU:HB2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:512:ASP:CG	1:I:515:GLU:HB2	2.33	0.49
1:D:639:LEU:HD22	1:D:639:LEU:N	2.27	0.49
1:J:380:THR:CG2	1:J:395:LYS:HD2	2.43	0.49
1:O:380:THR:CG2	1:O:395:LYS:HD2	2.43	0.49
1:L:258:ALA:O	1:L:372:ALA:HB2	2.12	0.49
1:A:459:ILE:HG22	1:A:460:ALA:N	2.27	0.49
1:D:380:THR:CG2	1:D:395:LYS:HD2	2.43	0.49
1:F:258:ALA:O	1:F:372:ALA:HB2	2.12	0.49
1:F:459:ILE:HG12	1:F:477:TRP:NE1	2.28	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:J:184:PRO:O	1:J:185:ASP:C	2.50	0.49
1:K:380:THR:CG2	1:K:395:LYS:HD2	2.43	0.49
1:E:239:VAL:HG23	1:E:240:THR:N	2.27	0.49
1:A:187:LEU:HD21	1:A:205:PRO:HD3	1.93	0.49
1:B:239:VAL:HG23	1:B:240:THR:N	2.27	0.49
1:J:459:ILE:HG12	1:J:477:TRP:NE1	2.28	0.49
1:G:592:ARG:HD2	1:G:598:TYR:CD2	2.48	0.49
1:J:479:GLU:OE1	1:K:470:ARG:HG3	2.12	0.49
1:O:505:ILE:HD11	1:O:530:ALA:CB	2.39	0.49
1:O:647:GLU:HA	1:O:652:LEU:O	2.13	0.49
1:L:647:GLU:HA	1:L:652:LEU:O	2.13	0.49
1:C:464:PHE:N	1:C:464:PHE:HD2	2.09	0.49
1:M:645:GLU:HG3	1:M:697:ASN:HB2	1.94	0.49
1:I:384:VAL:HG12	1:I:385:LEU:N	2.26	0.49
1:I:576:THR:C	1:I:578:LEU:H	2.16	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:M:411:TYR:CD2	1:M:412:PRO:HD3	2.48	0.49
1:B:271:LEU:CD1	1:B:289:ILE:HD11	2.36	0.49
1:G:189:VAL:CG1	1:H:199:LYS:CG	2.90	0.49
1:A:512:ASP:CG	1:A:515:GLU:HB2	2.33	0.49
1:K:521:MET:CE	1:K:522:THR:H	2.26	0.49
1:L:639:LEU:HD22	1:L:639:LEU:N	2.27	0.49
1:G:380:THR:CG2	1:G:395:LYS:HD2	2.43	0.49
1:L:231:ASP:HB2	1:L:232:PRO:HD2	1.95	0.49
1:F:239:VAL:HG23	1:F:240:THR:N	2.27	0.49
1:L:184:PRO:O	1:L:185:ASP:C	2.50	0.49
1:C:592:ARG:HD2	1:C:598:TYR:CD2	2.48	0.49
1:F:592:ARG:HD2	1:F:598:TYR:CD2	2.48	0.49
1:J:592:ARG:HD2	1:J:598:TYR:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:226:TRP:CH2	1:F:234:SER:HB3	2.48	0.49
1:M:584:ASN:H	1:M:587:MET:HE1	1.77	0.49
1:F:647:GLU:HA	1:F:652:LEU:O	2.13	0.49
1:I:660:TYR:HB2	1:I:707:ILE:HG13	1.93	0.49
1:B:502:GLU:O	1:B:503:ARG:HG2	2.12	0.49
1:J:502:GLU:O	1:J:503:ARG:HG2	2.12	0.49
1:G:411:TYR:CD2	1:G:412:PRO:HD3	2.48	0.49
1:H:411:TYR:CD2	1:H:412:PRO:HD3	2.48	0.49
1:M:410:TYR:CG	1:M:414:LYS:HE2	2.48	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:I:318:GLY:HA2	1:J:410:TYR:HE1	1.75	0.49
1:J:410:TYR:CG	1:J:414:LYS:HE2	2.48	0.49
1:E:410:TYR:CG	1:E:414:LYS:HE2	2.48	0.49
1:D:410:TYR:H	1:D:410:TYR:HD1	1.61	0.49
1:C:521:MET:HE2	1:C:525:GLU:HB3	1.94	0.49
1:E:231:ASP:HB2	1:E:232:PRO:HD2	1.95	0.49
1:F:380:THR:CG2	1:F:395:LYS:HD2	2.43	0.49
1:A:231:ASP:HB2	1:A:232:PRO:HD2	1.95	0.49
1:K:592:ARG:HD2	1:K:598:TYR:CD2	2.48	0.49
1:E:592:ARG:HD2	1:E:598:TYR:CD2	2.48	0.49
1:I:505:ILE:HD12	1:I:505:ILE:N	2.27	0.49
1:L:505:ILE:HD12	1:L:505:ILE:N	2.27	0.49
1:F:505:ILE:HD12	1:F:505:ILE:N	2.27	0.49
1:B:226:TRP:CH2	1:B:234:SER:HB3	2.48	0.49
1:F:326:ASN:HB3	1:F:485:GLN:HE22	1.77	0.49
1:L:576:THR:C	1:L:578:LEU:H	2.16	0.49
1:D:384:VAL:HG12	1:D:385:LEU:N	2.26	0.49
1:O:502:GLU:O	1:O:503:ARG:HG2	2.12	0.49
1:C:502:GLU:O	1:C:503:ARG:HG2	2.12	0.49
1:L:479:GLU:OE1	1:M:470:ARG:HA	2.12	0.49
1:B:401:LEU:HD12	1:B:401:LEU:C	2.32	0.49
1:B:410:TYR:H	1:B:410:TYR:HD1	1.61	0.49
1:F:512:ASP:CG	1:F:515:GLU:HB2	2.33	0.49
1:G:483:GLN:HE22	1:H:245:LYS:H	1.60	0.49
1:K:512:ASP:CG	1:K:515:GLU:HB2	2.33	0.49
1:A:521:MET:CE	1:A:521:MET:HA	2.37	0.49
1:G:639:LEU:N	1:G:639:LEU:HD22	2.27	0.49
1:H:239:VAL:HG23	1:H:240:THR:N	2.27	0.49
1:O:459:ILE:HG22	1:O:460:ALA:N	2.27	0.49
1:E:380:THR:CG2	1:E:395:LYS:HD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:459:ILE:HG12	1:I:477:TRP:NE1	2.28	0.49
1:B:459:ILE:HG12	1:B:477:TRP:NE1	2.28	0.49
1:M:592:ARG:HD2	1:M:598:TYR:CD2	2.48	0.49
1:D:592:ARG:HD2	1:D:598:TYR:CD2	2.48	0.49
1:O:505:ILE:N	1:O:505:ILE:HD12	2.27	0.49
1:I:226:TRP:CH2	1:I:234:SER:HB3	2.48	0.49
1:K:442:LEU:CD1	1:K:448:LEU:HD21	2.41	0.49
1:I:647:GLU:HA	1:I:652:LEU:O	2.13	0.49
1:G:647:GLU:HA	1:G:652:LEU:O	2.13	0.49
1:H:647:GLU:HA	1:H:652:LEU:O	2.13	0.49
1:L:502:GLU:O	1:L:503:ARG:HG2	2.12	0.49
1:F:691:ASN:OD1	1:F:693:ASN:HB2	2.13	0.49
1:G:410:TYR:HD1	1:G:410:TYR:H	1.61	0.49
1:J:377:VAL:CG1	1:J:398:GLU:HG3	2.41	0.49
1:J:642:TYR:HD1	1:J:700:ALA:HA	1.78	0.49
1:M:642:TYR:HD1	1:M:700:ALA:HA	1.78	0.49
1:B:410:TYR:CG	1:B:414:LYS:HE2	2.48	0.49
1:E:403:GLN:N	1:E:403:GLN:HE21	1.99	0.49
1:C:200:ARG:N	1:C:200:ARG:CD	2.72	0.49
1:A:410:TYR:CG	1:A:414:LYS:HE2	2.48	0.49
1:C:271:LEU:CD1	1:C:289:ILE:HD11	2.36	0.49
1:I:194:VAL:HG13	1:I:202:PHE:O	2.13	0.49
1:E:639:LEU:N	1:E:639:LEU:HD22	2.27	0.49
1:I:459:ILE:HG22	1:I:460:ALA:N	2.27	0.49
1:H:479:GLU:HG2	1:I:471:VAL:HG23	1.95	0.49
1:J:226:TRP:CH2	1:J:234:SER:HB3	2.48	0.49
1:K:505:ILE:HD12	1:K:505:ILE:N	2.27	0.49
1:G:310:HIS:HD2	1:G:312:SER:HB2	1.78	0.49
1:I:227:SER:O	1:I:230:SER:N	2.39	0.49
1:E:691:ASN:OD1	1:E:693:ASN:HB2	2.13	0.49
1:J:585:ALA:O	1:J:586:LYS:HB2	2.13	0.49
1:I:691:ASN:OD1	1:I:693:ASN:HB2	2.13	0.49
1:K:391:LEU:O	1:K:392:ALA:HB2	2.13	0.49
1:K:585:ALA:O	1:K:586:LYS:HB2	2.13	0.49
1:I:411:TYR:CD2	1:I:412:PRO:HD3	2.48	0.49
1:J:401:LEU:C	1:J:401:LEU:HD12	2.32	0.49
1:F:184:PRO:O	1:F:185:ASP:C	2.50	0.49
1:F:411:TYR:CD2	1:F:412:PRO:HD3	2.48	0.49
1:B:512:ASP:CG	1:B:515:GLU:HB2	2.33	0.49
1:A:411:TYR:CD2	1:A:412:PRO:HD3	2.48	0.49
1:G:183:ILE:HG12	1:G:203:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:226:TRP:CH2	1:M:234:SER:HB3	2.48	0.49
1:B:380:THR:CG2	1:B:395:LYS:HD2	2.43	0.49
1:C:380:THR:CG2	1:C:395:LYS:HD2	2.43	0.49
1:B:231:ASP:HB2	1:B:232:PRO:HD2	1.95	0.49
1:D:239:VAL:HG23	1:D:240:THR:N	2.27	0.49
1:J:194:VAL:HG13	1:J:202:PHE:O	2.13	0.49
1:L:592:ARG:HD2	1:L:598:TYR:CD2	2.48	0.49
1:K:226:TRP:CH2	1:K:234:SER:HB3	2.48	0.49
1:L:226:TRP:CH2	1:L:234:SER:HB3	2.48	0.49
1:D:226:TRP:CH2	1:D:234:SER:HB3	2.48	0.49
1:C:647:GLU:HA	1:C:652:LEU:O	2.13	0.49
1:K:647:GLU:HA	1:K:652:LEU:O	2.13	0.49
1:L:629:LEU:HD12	1:L:629:LEU:N	2.28	0.49
1:M:629:LEU:N	1:M:629:LEU:HD12	2.28	0.49
1:C:645:GLU:HG3	1:C:697:ASN:HB2	1.94	0.49
1:D:502:GLU:O	1:D:503:ARG:HG2	2.12	0.49
1:G:391:LEU:O	1:G:392:ALA:HB2	2.13	0.49
1:B:585:ALA:O	1:B:586:LYS:HB2	2.13	0.49
1:I:306:ASN:HA	1:J:669:ARG:HB3	1.95	0.49
1:J:391:LEU:O	1:J:392:ALA:HB2	2.13	0.49
1:O:200:ARG:CD	1:O:200:ARG:N	2.71	0.48
1:I:316:ILE:HD12	1:J:496:LYS:CD	2.41	0.48
1:F:194:VAL:HG13	1:F:202:PHE:O	2.13	0.48
1:G:515:GLU:HG3	1:G:518:LYS:HD2	1.94	0.48
1:L:483:GLN:CD	1:M:469:VAL:HG21	2.33	0.48
1:I:639:LEU:HD22	1:I:639:LEU:N	2.27	0.48
1:M:459:ILE:HG12	1:M:477:TRP:NE1	2.28	0.48
1:G:459:ILE:HG22	1:G:460:ALA:N	2.27	0.48
1:E:459:ILE:HG12	1:E:477:TRP:NE1	2.28	0.48
1:C:231:ASP:HB2	1:C:232:PRO:HD2	1.95	0.48
1:C:459:ILE:HG22	1:C:460:ALA:N	2.27	0.48
1:K:459:ILE:HG22	1:K:460:ALA:N	2.28	0.48
1:A:592:ARG:HD2	1:A:598:TYR:CD2	2.48	0.48
1:H:184:PRO:O	1:H:185:ASP:C	2.50	0.48
1:O:194:VAL:HG13	1:O:202:PHE:O	2.13	0.48
1:J:505:ILE:N	1:J:505:ILE:HD12	2.27	0.48
1:J:310:HIS:HD2	1:J:312:SER:HB2	1.78	0.48
1:L:310:HIS:HD2	1:L:312:SER:HB2	1.78	0.48
1:C:310:HIS:HD2	1:C:312:SER:HB2	1.78	0.48
1:H:310:HIS:H	1:H:310:HIS:HD1	1.61	0.48
1:B:310:HIS:HD2	1:B:312:SER:HB2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:336:HIS:HB3	1:G:708:ILE:HG22	1.95	0.48
1:H:629:LEU:HD12	1:H:629:LEU:N	2.28	0.48
1:A:629:LEU:HD12	1:A:629:LEU:N	2.28	0.48
1:G:629:LEU:HD12	1:G:629:LEU:N	2.28	0.48
1:M:691:ASN:OD1	1:M:693:ASN:HB2	2.13	0.48
1:G:502:GLU:O	1:G:503:ARG:HG2	2.12	0.48
1:C:691:ASN:OD1	1:C:693:ASN:HB2	2.13	0.48
1:K:411:TYR:CD2	1:K:412:PRO:HD3	2.48	0.48
1:C:224:GLU:CD	1:O:201:THR:HG23	2.32	0.48
1:K:642:TYR:HD1	1:K:700:ALA:HA	1.78	0.48
1:B:411:TYR:CD2	1:B:412:PRO:HD3	2.48	0.48
1:F:410:TYR:H	1:F:410:TYR:HD1	1.61	0.48
1:J:271:LEU:CD2	1:J:360:LEU:HD13	2.44	0.48
1:L:380:THR:CG2	1:L:395:LYS:HD2	2.43	0.48
1:K:459:ILE:HG12	1:K:477:TRP:NE1	2.28	0.48
1:J:258:ALA:O	1:J:372:ALA:HB2	2.12	0.48
1:C:505:ILE:HD12	1:C:505:ILE:N	2.27	0.48
1:E:657:ASN:HB2	1:E:662:MET:CB	2.44	0.48
1:K:648:ASP:HB2	1:K:652:LEU:HD12	1.96	0.48
1:M:647:GLU:HA	1:M:652:LEU:O	2.13	0.48
1:D:629:LEU:N	1:D:629:LEU:HD12	2.28	0.48
1:K:691:ASN:OD1	1:K:693:ASN:HB2	2.13	0.48
1:O:585:ALA:O	1:O:586:LYS:HB2	2.13	0.48
1:O:691:ASN:OD1	1:O:693:ASN:HB2	2.13	0.48
1:I:502:GLU:O	1:I:503:ARG:HG2	2.12	0.48
1:B:391:LEU:O	1:B:392:ALA:HB2	2.13	0.48
1:K:410:TYR:CG	1:K:414:LYS:HE2	2.48	0.48
1:H:410:TYR:H	1:H:410:TYR:HD1	1.61	0.48
1:L:410:TYR:HD1	1:L:410:TYR:H	1.61	0.48
1:E:642:TYR:HD1	1:E:700:ALA:HA	1.78	0.48
1:E:411:TYR:CD2	1:E:412:PRO:HD3	2.48	0.48
1:D:410:TYR:CG	1:D:414:LYS:HE2	2.48	0.48
1:O:271:LEU:CD2	1:O:360:LEU:HD13	2.44	0.48
1:B:200:ARG:CD	1:B:200:ARG:N	2.72	0.48
1:E:194:VAL:HG13	1:E:202:PHE:O	2.13	0.48
1:G:231:ASP:HB2	1:G:232:PRO:HD2	1.95	0.48
1:M:380:THR:CG2	1:M:395:LYS:HD2	2.43	0.48
1:A:239:VAL:HG23	1:A:240:THR:N	2.27	0.48
1:C:459:ILE:HG12	1:C:477:TRP:NE1	2.28	0.48
1:O:592:ARG:HD2	1:O:598:TYR:CD2	2.48	0.48
1:B:592:ARG:HD2	1:B:598:TYR:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:298:THR:HB	1:G:601:ASN:HB3	1.96	0.48
1:A:234:SER:O	1:A:235:ASP:C	2.52	0.48
1:I:648:ASP:HB2	1:I:652:LEU:HD12	1.96	0.48
1:E:647:GLU:HA	1:E:652:LEU:O	2.13	0.48
1:A:336:HIS:HB3	1:A:708:ILE:HG22	1.95	0.48
1:M:336:HIS:HB3	1:M:708:ILE:HG22	1.95	0.48
1:A:657:ASN:HB2	1:A:662:MET:CB	2.43	0.48
1:A:647:GLU:HA	1:A:652:LEU:O	2.13	0.48
1:J:647:GLU:HA	1:J:652:LEU:O	2.13	0.48
1:B:647:GLU:HA	1:B:652:LEU:O	2.13	0.48
1:B:229:ALA:O	1:B:230:SER:CB	2.62	0.48
1:B:629:LEU:N	1:B:629:LEU:HD12	2.28	0.48
1:C:464:PHE:CD2	1:C:465:GLU:N	2.82	0.48
1:E:464:PHE:CD2	1:E:465:GLU:N	2.82	0.48
1:B:645:GLU:HG3	1:B:697:ASN:HB2	1.94	0.48
1:K:502:GLU:O	1:K:503:ARG:HG2	2.12	0.48
1:D:576:THR:C	1:D:578:LEU:H	2.16	0.48
1:E:585:ALA:O	1:E:586:LYS:HB2	2.13	0.48
1:M:310:HIS:HD2	1:M:312:SER:HB2	1.78	0.48
1:I:410:TYR:CG	1:I:414:LYS:HE2	2.48	0.48
1:A:642:TYR:HD1	1:A:700:ALA:HA	1.78	0.48
1:I:310:HIS:HD2	1:I:312:SER:HB2	1.78	0.48
1:O:410:TYR:CG	1:O:414:LYS:HE2	2.48	0.48
1:F:521:MET:CE	1:F:522:THR:H	2.26	0.48
1:K:271:LEU:CD2	1:K:360:LEU:HD13	2.44	0.48
1:K:178:ARG:HH12	1:L:200:ARG:HB3	1.78	0.48
1:L:521:MET:HA	1:L:521:MET:CE	2.36	0.48
1:H:380:THR:CG2	1:H:395:LYS:HD2	2.43	0.48
1:F:459:ILE:HG22	1:F:460:ALA:N	2.27	0.48
1:H:592:ARG:HD2	1:H:598:TYR:CD2	2.48	0.48
1:I:200:ARG:N	1:I:200:ARG:CD	2.71	0.48
1:D:194:VAL:HG13	1:D:202:PHE:O	2.13	0.48
1:B:194:VAL:HG13	1:B:202:PHE:O	2.13	0.48
1:L:298:THR:HB	1:L:601:ASN:HB3	1.96	0.48
1:O:226:TRP:CH2	1:O:234:SER:HB3	2.48	0.48
1:L:584:ASN:H	1:L:587:MET:HE1	1.79	0.48
1:D:647:GLU:HA	1:D:652:LEU:O	2.13	0.48
1:K:227:SER:O	1:K:230:SER:N	2.39	0.48
1:E:229:ALA:O	1:E:230:SER:CB	2.62	0.48
1:C:229:ALA:O	1:C:230:SER:CB	2.62	0.48
1:I:629:LEU:HD12	1:I:629:LEU:N	2.28	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:585:ALA:O	1:F:586:LYS:HB2	2.13	0.48
1:M:576:THR:C	1:M:578:LEU:H	2.16	0.48
1:E:502:GLU:O	1:E:503:ARG:HG2	2.12	0.48
1:O:391:LEU:O	1:O:392:ALA:HB2	2.13	0.48
1:I:585:ALA:O	1:I:586:LYS:HB2	2.13	0.48
1:J:576:THR:C	1:J:578:LEU:H	2.16	0.48
1:G:410:TYR:CG	1:G:414:LYS:HE2	2.48	0.48
1:I:410:TYR:HD1	1:I:410:TYR:H	1.61	0.48
1:L:411:TYR:CD2	1:L:412:PRO:HD3	2.48	0.48
1:H:512:ASP:CG	1:H:515:GLU:HB2	2.33	0.48
1:J:411:TYR:CD2	1:J:412:PRO:HD3	2.48	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:O:512:ASP:CG	1:O:515:GLU:HB2	2.33	0.48
1:G:521:MET:CE	1:G:522:THR:H	2.26	0.48
1:L:512:ASP:CG	1:L:515:GLU:HB2	2.33	0.48
1:M:234:SER:O	1:M:235:ASP:C	2.52	0.48
1:L:459:ILE:HG12	1:L:477:TRP:NE1	2.28	0.48
1:H:459:ILE:HG22	1:H:460:ALA:N	2.27	0.48
1:A:185:ASP:O	1:A:189:VAL:HG23	2.14	0.48
1:M:298:THR:HB	1:M:601:ASN:HB3	1.96	0.48
1:F:298:THR:HB	1:F:601:ASN:HB3	1.96	0.48
1:E:298:THR:HB	1:E:601:ASN:HB3	1.96	0.48
1:D:468:ARG:HH11	1:D:468:ARG:HG3	1.79	0.48
1:E:505:ILE:N	1:E:505:ILE:HD12	2.27	0.48
1:C:234:SER:O	1:C:235:ASP:C	2.52	0.48
1:A:310:HIS:HD2	1:A:312:SER:HB2	1.78	0.48
1:G:442:LEU:CD1	1:G:448:LEU:HD21	2.41	0.48
1:D:657:ASN:HB2	1:D:662:MET:CB	2.44	0.48
1:C:699:TYR:CD2	1:C:723:LYS:HG3	2.49	0.48
1:E:336:HIS:HB3	1:E:708:ILE:HG22	1.96	0.48
1:M:699:TYR:CD2	1:M:723:LYS:HG3	2.49	0.48
1:L:648:ASP:HB2	1:L:652:LEU:HD12	1.96	0.48
1:O:207:ILE:HG21	1:O:210:ILE:HG12	1.96	0.48
1:F:336:HIS:HB3	1:F:708:ILE:HG22	1.96	0.48
1:F:629:LEU:N	1:F:629:LEU:HD12	2.28	0.48
1:H:585:ALA:O	1:H:586:LYS:HB2	2.13	0.48
1:G:316:ILE:HD11	1:H:496:LYS:CB	2.35	0.48
1:C:411:TYR:CD2	1:C:412:PRO:HD3	2.48	0.48
1:G:642:TYR:HD1	1:G:700:ALA:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:TYR:HD1	1:D:700:ALA:HA	1.78	0.48
1:H:642:TYR:HD1	1:H:700:ALA:HA	1.78	0.48
1:J:410:TYR:HD1	1:J:410:TYR:H	1.61	0.48
1:A:195:ASP:CG	1:A:196:VAL:H	2.17	0.48
1:C:195:ASP:CG	1:C:196:VAL:H	2.17	0.48
1:M:271:LEU:CD2	1:M:360:LEU:HD13	2.44	0.48
1:G:468:ARG:HH11	1:G:468:ARG:HG3	1.79	0.48
1:G:459:ILE:HG12	1:G:477:TRP:NE1	2.28	0.48
1:A:298:THR:HB	1:A:601:ASN:HB3	1.96	0.48
1:O:185:ASP:O	1:O:189:VAL:HG23	2.14	0.48
1:H:310:HIS:HD2	1:H:312:SER:HB2	1.78	0.48
1:I:657:ASN:HB2	1:I:662:MET:CB	2.44	0.48
1:K:699:TYR:CD2	1:K:723:LYS:HG3	2.49	0.48
1:L:657:ASN:HB2	1:L:662:MET:CB	2.44	0.48
1:I:336:HIS:HB3	1:I:708:ILE:HG22	1.95	0.48
1:G:207:ILE:HG21	1:G:210:ILE:HG12	1.96	0.48
1:M:207:ILE:HG21	1:M:210:ILE:HG12	1.96	0.48
1:A:229:ALA:O	1:A:230:SER:CB	2.62	0.48
1:G:464:PHE:CD2	1:G:465:GLU:N	2.82	0.48
1:O:468:ARG:HH11	1:O:468:ARG:HG3	1.79	0.48
1:D:391:LEU:O	1:D:392:ALA:HB2	2.13	0.48
1:K:576:THR:C	1:K:578:LEU:H	2.16	0.48
1:E:391:LEU:O	1:E:392:ALA:HB2	2.13	0.48
1:L:391:LEU:O	1:L:392:ALA:HB2	2.13	0.48
1:C:642:TYR:HD1	1:C:700:ALA:HA	1.78	0.48
1:L:642:TYR:HD1	1:L:700:ALA:HA	1.78	0.48
1:C:394:ILE:CG2	1:C:421:LEU:HD22	2.39	0.48
1:D:410:TYR:HE1	1:O:318:GLY:HA2	1.74	0.48
1:A:410:TYR:H	1:A:410:TYR:HD1	1.61	0.48
1:D:271:LEU:CD2	1:D:360:LEU:HD13	2.44	0.48
1:J:195:ASP:CG	1:J:196:VAL:H	2.17	0.48
1:C:521:MET:CE	1:C:522:THR:H	2.26	0.48
1:A:459:ILE:HG12	1:A:477:TRP:NE1	2.28	0.48
1:L:194:VAL:HG13	1:L:202:PHE:O	2.13	0.48
1:J:183:ILE:HG12	1:J:203:LEU:CD2	2.43	0.48
1:I:195:ASP:CG	1:I:196:VAL:H	2.17	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:C:657:ASN:HB2	1:C:662:MET:CB	2.43	0.48
1:O:657:ASN:HB2	1:O:662:MET:CB	2.43	0.48
1:A:699:TYR:CD2	1:A:723:LYS:HG3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:336:HIS:HB3	1:D:708:ILE:HG22	1.95	0.48
1:D:207:ILE:HG21	1:D:210:ILE:HG12	1.96	0.48
1:L:336:HIS:HB3	1:L:708:ILE:HG22	1.95	0.48
1:D:229:ALA:O	1:D:230:SER:CB	2.62	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
1:A:585:ALA:O	1:A:586:LYS:HB2	2.13	0.48
1:I:391:LEU:O	1:I:392:ALA:HB2	2.13	0.48
1:D:691:ASN:OD1	1:D:693:ASN:HB2	2.13	0.48
1:L:305:GLY:CA	1:M:670:GLN:CD	2.51	0.48
1:O:195:ASP:CG	1:O:196:VAL:H	2.17	0.48
1:F:377:VAL:HG22	1:F:398:GLU:HB3	1.96	0.48
1:D:310:HIS:HD2	1:D:312:SER:HB2	1.78	0.48
1:E:310:HIS:HD2	1:E:312:SER:HB2	1.78	0.48
1:D:195:ASP:CG	1:D:196:VAL:H	2.17	0.48
1:B:271:LEU:CD2	1:B:360:LEU:HD13	2.44	0.48
1:K:195:ASP:CG	1:K:196:VAL:H	2.17	0.48
1:H:459:ILE:HG12	1:H:477:TRP:NE1	2.28	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:D:298:THR:HB	1:D:601:ASN:HB3	1.96	0.48
1:L:234:SER:O	1:L:235:ASP:C	2.52	0.48
1:G:234:SER:O	1:G:235:ASP:C	2.52	0.48
1:J:207:ILE:HG21	1:J:210:ILE:HG12	1.96	0.48
1:J:699:TYR:CD2	1:J:723:LYS:HG3	2.49	0.48
1:C:207:ILE:HG21	1:C:210:ILE:HG12	1.96	0.48
1:J:718:THR:HB	1:J:721:ILE:HD12	1.96	0.48
1:O:718:THR:HB	1:O:721:ILE:HD12	1.96	0.48
1:K:629:LEU:N	1:K:629:LEU:HD12	2.28	0.48
1:E:629:LEU:HD12	1:E:629:LEU:N	2.28	0.48
1:D:464:PHE:CD2	1:D:465:GLU:N	2.82	0.48
1:I:464:PHE:CD2	1:I:465:GLU:N	2.82	0.48
1:E:385:LEU:O	1:E:389:GLN:HB2	2.14	0.48
1:H:468:ARG:HG3	1:H:468:ARG:HH11	1.79	0.48
1:A:691:ASN:OD1	1:A:693:ASN:HB2	2.13	0.48
1:K:410:TYR:HD1	1:K:410:TYR:H	1.61	0.48
1:C:512:ASP:CG	1:C:515:GLU:HB2	2.33	0.48
1:K:316:ILE:HD13	1:L:496:LYS:HD3	1.96	0.48
1:B:367:VAL:HG23	1:B:410:TYR:HA	1.96	0.48
1:F:410:TYR:CG	1:F:414:LYS:HE2	2.48	0.48
1:D:403:GLN:N	1:D:403:GLN:HE21	1.99	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:367:VAL:HG23	1:O:410:TYR:HA	1.96	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:A:607:ALA:H	1:A:638:ILE:CD1	2.20	0.48
1:I:380:THR:CG2	1:I:395:LYS:HD2	2.43	0.48
1:O:183:ILE:HG12	1:O:203:LEU:CD2	2.43	0.48
1:M:194:VAL:HG13	1:M:202:PHE:O	2.13	0.48
1:A:584:ASN:H	1:A:587:MET:HE1	1.79	0.48
1:D:699:TYR:CD2	1:D:723:LYS:HG3	2.49	0.48
1:O:227:SER:O	1:O:230:SER:N	2.39	0.48
1:F:227:SER:O	1:F:230:SER:N	2.40	0.48
1:J:629:LEU:HD12	1:J:629:LEU:N	2.28	0.48
1:E:645:GLU:HG3	1:E:697:ASN:HB2	1.94	0.48
1:A:464:PHE:CD2	1:A:465:GLU:N	2.82	0.48
1:M:385:LEU:O	1:M:389:GLN:HB2	2.14	0.48
1:I:385:LEU:O	1:I:389:GLN:HB2	2.14	0.48
1:G:576:THR:C	1:G:578:LEU:H	2.16	0.48
1:C:585:ALA:O	1:C:586:LYS:HB2	2.13	0.48
1:D:585:ALA:O	1:D:586:LYS:HB2	2.13	0.48
1:K:367:VAL:HG23	1:K:410:TYR:HA	1.96	0.48
1:C:194:VAL:HG13	1:C:202:PHE:O	2.13	0.48
1:B:377:VAL:HG22	1:B:398:GLU:HB3	1.96	0.48
1:H:377:VAL:HG22	1:H:398:GLU:HB3	1.96	0.48
1:J:367:VAL:HG23	1:J:410:TYR:HA	1.96	0.48
1:E:410:TYR:HD1	1:E:410:TYR:H	1.61	0.48
1:A:367:VAL:HG23	1:A:410:TYR:HA	1.96	0.48
1:C:271:LEU:CD2	1:C:360:LEU:HD13	2.43	0.48
1:D:271:LEU:CD1	1:D:289:ILE:HD11	2.36	0.48
1:L:271:LEU:CD2	1:L:360:LEU:HD13	2.44	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:K:194:VAL:HG13	1:K:202:PHE:O	2.13	0.48
1:A:380:THR:CG2	1:A:395:LYS:HD2	2.43	0.48
1:H:194:VAL:HG13	1:H:202:PHE:O	2.13	0.48
1:A:183:ILE:HG12	1:A:203:LEU:CD2	2.43	0.48
1:I:592:ARG:HD2	1:I:598:TYR:CD2	2.48	0.48
1:H:657:ASN:HB2	1:H:662:MET:CB	2.43	0.48
1:K:657:ASN:HB2	1:K:662:MET:CB	2.43	0.48
1:L:699:TYR:CD2	1:L:723:LYS:HG3	2.49	0.48
1:A:648:ASP:HB2	1:A:652:LEU:HD12	1.96	0.48
1:H:229:ALA:O	1:H:230:SER:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:385:LEU:O	1:L:389:GLN:HB2	2.14	0.48
1:A:385:LEU:O	1:A:389:GLN:HB2	2.14	0.48
1:H:385:LEU:O	1:H:389:GLN:HB2	2.14	0.48
1:F:385:LEU:O	1:F:389:GLN:HB2	2.14	0.48
1:D:385:LEU:O	1:D:389:GLN:HB2	2.14	0.48
1:L:585:ALA:O	1:L:586:LYS:HB2	2.13	0.48
1:C:391:LEU:O	1:C:392:ALA:HB2	2.13	0.48
1:J:691:ASN:OD1	1:J:693:ASN:HB2	2.13	0.48
1:G:401:LEU:HD22	1:G:411:TYR:CZ	2.49	0.47
1:C:185:ASP:O	1:C:189:VAL:HG23	2.14	0.47
1:C:377:VAL:HG22	1:C:398:GLU:HB3	1.96	0.47
1:C:367:VAL:HG23	1:C:410:TYR:HA	1.96	0.47
1:C:401:LEU:HD22	1:C:411:TYR:CZ	2.49	0.47
1:L:401:LEU:HD22	1:L:411:TYR:CZ	2.49	0.47
1:O:642:TYR:HD1	1:O:700:ALA:HA	1.78	0.47
1:D:401:LEU:HD22	1:D:411:TYR:CZ	2.49	0.47
1:O:410:TYR:H	1:O:410:TYR:HD1	1.61	0.47
1:C:360:LEU:HD12	1:C:361:ASN:N	2.29	0.47
1:A:483:GLN:HE22	1:B:245:LYS:H	1.62	0.47
1:B:195:ASP:CG	1:B:196:VAL:H	2.17	0.47
1:G:271:LEU:CD2	1:G:360:LEU:HD13	2.44	0.47
1:H:271:LEU:CD2	1:H:360:LEU:HD13	2.44	0.47
1:I:185:ASP:O	1:I:189:VAL:HG23	2.14	0.47
1:O:231:ASP:HB2	1:O:232:PRO:HD2	1.95	0.47
1:O:459:ILE:HG12	1:O:477:TRP:NE1	2.28	0.47
1:B:481:LEU:N	1:B:482:PRO:CD	2.75	0.47
1:J:185:ASP:O	1:J:189:VAL:HG23	2.14	0.47
1:D:459:ILE:HG12	1:D:477:TRP:NE1	2.28	0.47
1:J:459:ILE:HG22	1:J:460:ALA:N	2.27	0.47
1:K:468:ARG:HG3	1:K:468:ARG:HH11	1.79	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:L:207:ILE:HG21	1:L:210:ILE:HG12	1.96	0.47
1:G:718:THR:HB	1:G:721:ILE:HD12	1.96	0.47
1:F:229:ALA:O	1:F:230:SER:CB	2.62	0.47
1:C:629:LEU:N	1:C:629:LEU:HD12	2.28	0.47
1:B:464:PHE:CD2	1:B:465:GLU:N	2.82	0.47
1:H:464:PHE:CD2	1:H:465:GLU:N	2.82	0.47
1:G:691:ASN:OD1	1:G:693:ASN:HB2	2.13	0.47
1:H:691:ASN:OD1	1:H:693:ASN:HB2	2.13	0.47
1:I:367:VAL:HG23	1:I:410:TYR:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:401:LEU:HD22	1:K:411:TYR:CZ	2.49	0.47
1:H:367:VAL:HG23	1:H:410:TYR:HA	1.96	0.47
1:O:377:VAL:HG22	1:O:398:GLU:HB3	1.96	0.47
1:F:642:TYR:HD1	1:F:700:ALA:HA	1.78	0.47
1:I:271:LEU:CD2	1:I:360:LEU:HD13	2.44	0.47
1:B:360:LEU:HD12	1:B:361:ASN:N	2.29	0.47
1:H:195:ASP:CG	1:H:196:VAL:H	2.17	0.47
1:E:521:MET:CE	1:E:522:THR:H	2.26	0.47
1:D:459:ILE:HG22	1:D:460:ALA:N	2.27	0.47
1:A:194:VAL:HG13	1:A:202:PHE:O	2.13	0.47
1:B:185:ASP:O	1:B:189:VAL:HG23	2.14	0.47
1:A:315:ASP:OD1	1:B:497:ASP:CG	2.53	0.47
1:O:699:TYR:CD2	1:O:723:LYS:HG3	2.49	0.47
1:B:699:TYR:CD2	1:B:723:LYS:HG3	2.49	0.47
1:F:207:ILE:HG21	1:F:210:ILE:HG12	1.96	0.47
1:C:648:ASP:HB2	1:C:652:LEU:HD12	1.96	0.47
1:H:207:ILE:HG21	1:H:210:ILE:HG12	1.96	0.47
1:G:648:ASP:HB2	1:G:652:LEU:HD12	1.96	0.47
1:K:336:HIS:HB3	1:K:708:ILE:HG22	1.95	0.47
1:H:699:TYR:CD2	1:H:723:LYS:HG3	2.49	0.47
1:M:648:ASP:HB2	1:M:652:LEU:HD12	1.96	0.47
1:D:718:THR:HB	1:D:721:ILE:HD12	1.96	0.47
1:M:229:ALA:O	1:M:230:SER:CB	2.62	0.47
1:C:609:GLU:HA	1:C:724:ILE:HD13	1.96	0.47
1:K:385:LEU:O	1:K:389:GLN:HB2	2.14	0.47
1:A:391:LEU:O	1:A:392:ALA:HB2	2.13	0.47
1:G:585:ALA:O	1:G:586:LYS:HB2	2.13	0.47
1:J:468:ARG:HG3	1:J:468:ARG:HH11	1.79	0.47
1:B:691:ASN:OD1	1:B:693:ASN:HB2	2.13	0.47
1:I:401:LEU:HD22	1:I:411:TYR:CZ	2.49	0.47
1:K:411:TYR:O	1:K:413:SER:N	2.48	0.47
1:M:411:TYR:O	1:M:413:SER:N	2.48	0.47
1:J:401:LEU:HD22	1:J:411:TYR:CZ	2.49	0.47
1:I:642:TYR:HD1	1:I:700:ALA:HA	1.78	0.47
1:F:271:LEU:CD2	1:F:360:LEU:HD13	2.44	0.47
1:A:517:THR:HG23	1:B:199:LYS:O	2.15	0.47
1:F:195:ASP:CG	1:F:196:VAL:H	2.17	0.47
1:L:195:ASP:CG	1:L:196:VAL:H	2.17	0.47
1:M:231:ASP:HB2	1:M:232:PRO:HD2	1.94	0.47
1:H:298:THR:HB	1:H:601:ASN:HB3	1.96	0.47
1:M:185:ASP:O	1:M:189:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:584:ASN:H	1:F:587:MET:HE3	1.78	0.47
1:E:699:TYR:CD2	1:E:723:LYS:HG3	2.49	0.47
1:G:699:TYR:CD2	1:G:723:LYS:HG3	2.49	0.47
1:M:718:THR:HB	1:M:721:ILE:HD12	1.96	0.47
1:K:229:ALA:O	1:K:230:SER:CB	2.62	0.47
1:O:629:LEU:N	1:O:629:LEU:HD12	2.28	0.47
1:L:464:PHE:CD2	1:L:465:GLU:N	2.82	0.47
1:D:609:GLU:HA	1:D:724:ILE:HD13	1.96	0.47
1:B:468:ARG:HG3	1:B:468:ARG:HH11	1.79	0.47
1:C:385:LEU:O	1:C:389:GLN:HB2	2.14	0.47
1:E:468:ARG:HG3	1:E:468:ARG:HH11	1.79	0.47
1:K:377:VAL:HG22	1:K:398:GLU:HB3	1.96	0.47
1:E:394:ILE:CG2	1:E:421:LEU:HD22	2.39	0.47
1:B:401:LEU:HD22	1:B:411:TYR:CZ	2.49	0.47
1:F:401:LEU:HD22	1:F:411:TYR:CZ	2.49	0.47
1:O:411:TYR:CD2	1:O:412:PRO:HD3	2.48	0.47
1:A:401:LEU:HD22	1:A:411:TYR:CZ	2.49	0.47
1:E:271:LEU:CD2	1:E:360:LEU:HD13	2.44	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:J:479:GLU:OE1	1:K:470:ARG:HA	2.15	0.47
1:K:234:SER:O	1:K:235:ASP:C	2.52	0.47
1:M:583:LEU:HA	1:M:587:MET:SD	2.55	0.47
1:C:583:LEU:HA	1:C:587:MET:SD	2.55	0.47
1:J:657:ASN:HB2	1:J:662:MET:CB	2.44	0.47
1:E:648:ASP:HB2	1:E:652:LEU:HD12	1.96	0.47
1:H:648:ASP:HB2	1:H:652:LEU:HD12	1.96	0.47
1:K:207:ILE:HG21	1:K:210:ILE:HG12	1.96	0.47
1:F:699:TYR:CD2	1:F:723:LYS:HG3	2.49	0.47
1:B:648:ASP:HB2	1:B:652:LEU:HD12	1.96	0.47
1:A:573:ASN:OD1	1:A:575:TYR:HB2	2.15	0.47
1:J:229:ALA:O	1:J:230:SER:CB	2.62	0.47
1:H:609:GLU:HA	1:H:724:ILE:HD13	1.96	0.47
1:H:391:LEU:O	1:H:392:ALA:HB2	2.13	0.47
1:I:411:TYR:O	1:I:413:SER:N	2.48	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:E:377:VAL:HG22	1:E:398:GLU:HB3	1.96	0.47
1:O:394:ILE:CG2	1:O:421:LEU:HD22	2.39	0.47
1:D:367:VAL:HG23	1:D:410:TYR:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:185:ASP:O	1:E:189:VAL:HG23	2.14	0.47
1:M:195:ASP:CG	1:M:196:VAL:H	2.17	0.47
1:L:521:MET:CE	1:L:522:THR:H	2.26	0.47
1:L:185:ASP:O	1:L:189:VAL:HG23	2.14	0.47
1:I:234:SER:O	1:I:235:ASP:C	2.52	0.47
1:O:583:LEU:HA	1:O:587:MET:SD	2.55	0.47
1:I:442:LEU:CD1	1:I:448:LEU:HD21	2.41	0.47
1:B:657:ASN:HB2	1:B:662:MET:CB	2.43	0.47
1:L:647:GLU:OE1	1:L:695:LYS:HD3	2.15	0.47
1:B:336:HIS:HB3	1:B:708:ILE:HG22	1.95	0.47
1:O:573:ASN:OD1	1:O:575:TYR:HB2	2.15	0.47
1:G:229:ALA:O	1:G:230:SER:CB	2.62	0.47
1:E:609:GLU:HA	1:E:724:ILE:HD13	1.97	0.47
1:B:609:GLU:HA	1:B:724:ILE:HD13	1.97	0.47
1:J:609:GLU:HA	1:J:724:ILE:HD13	1.97	0.47
1:L:609:GLU:HA	1:L:724:ILE:HD13	1.96	0.47
1:O:385:LEU:O	1:O:389:GLN:HB2	2.14	0.47
1:G:609:GLU:HA	1:G:724:ILE:HD13	1.97	0.47
1:L:691:ASN:OD1	1:L:693:ASN:HB2	2.13	0.47
1:F:468:ARG:HG3	1:F:468:ARG:HH11	1.79	0.47
1:G:411:TYR:CB	1:G:412:PRO:CD	2.93	0.47
1:K:411:TYR:CB	1:K:412:PRO:CD	2.93	0.47
1:H:401:LEU:HD22	1:H:411:TYR:CZ	2.49	0.47
1:J:411:TYR:CB	1:J:412:PRO:CD	2.93	0.47
1:E:401:LEU:HD22	1:E:411:TYR:CZ	2.49	0.47
1:E:310:HIS:CD2	1:E:312:SER:HB2	2.50	0.47
1:F:411:TYR:CB	1:F:412:PRO:CD	2.93	0.47
1:O:401:LEU:HD22	1:O:411:TYR:CZ	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:E:200:ARG:N	1:E:200:ARG:CD	2.71	0.47
1:M:459:ILE:HG12	1:M:477:TRP:CE2	2.50	0.47
1:A:481:LEU:N	1:A:482:PRO:CD	2.74	0.47
1:K:459:ILE:HG12	1:K:477:TRP:CE2	2.50	0.47
1:C:468:ARG:HG3	1:C:468:ARG:HH11	1.79	0.47
1:K:310:HIS:HD2	1:K:312:SER:HB2	1.78	0.47
1:K:583:LEU:HA	1:K:587:MET:SD	2.55	0.47
1:E:207:ILE:HG21	1:E:210:ILE:HG12	1.96	0.47
1:I:207:ILE:HG21	1:I:210:ILE:HG12	1.96	0.47
1:K:573:ASN:OD1	1:K:575:TYR:HB2	2.15	0.47
1:C:573:ASN:OD1	1:C:575:TYR:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:670:GLN:O	1:M:314:PHE:CZ	2.67	0.47
1:K:609:GLU:HA	1:K:724:ILE:HD13	1.96	0.47
1:C:250:GLU:OE1	1:C:250:GLU:N	2.48	0.47
1:G:367:VAL:HG23	1:G:410:TYR:HA	1.96	0.47
1:M:310:HIS:CD2	1:M:312:SER:HB2	2.50	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:H:413:SER:O	1:H:415:ASN:N	2.48	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
1:A:377:VAL:HG22	1:A:398:GLU:HB3	1.96	0.47
1:I:377:VAL:HG22	1:I:398:GLU:HB3	1.96	0.47
1:B:642:TYR:HD1	1:B:700:ALA:HA	1.78	0.47
1:J:413:SER:O	1:J:415:ASN:N	2.48	0.47
1:I:394:ILE:CG2	1:I:421:LEU:HD22	2.39	0.47
1:B:411:TYR:O	1:B:413:SER:N	2.48	0.47
1:F:183:ILE:HG12	1:F:203:LEU:CD2	2.43	0.47
1:O:411:TYR:O	1:O:413:SER:N	2.48	0.47
1:I:271:LEU:CD1	1:I:289:ILE:HD11	2.36	0.47
1:G:516:THR:CG2	1:H:196:VAL:HG21	2.44	0.47
1:E:183:ILE:HG22	1:E:188:GLU:HB2	1.97	0.47
1:K:185:ASP:O	1:K:189:VAL:HG23	2.14	0.47
1:I:185:ASP:O	1:I:186:SER:C	2.53	0.47
1:J:521:MET:HA	1:J:521:MET:CE	2.36	0.47
1:L:514:LEU:C	1:L:516:THR:H	2.18	0.47
1:C:636:ARG:HG3	1:C:636:ARG:HH11	1.80	0.47
1:G:195:ASP:CG	1:G:196:VAL:H	2.17	0.47
1:K:231:ASP:HB2	1:K:232:PRO:HD2	1.95	0.47
1:D:459:ILE:HG12	1:D:477:TRP:CE2	2.50	0.47
1:K:310:HIS:CD2	1:K:312:SER:HB2	2.50	0.47
1:O:234:SER:O	1:O:235:ASP:C	2.52	0.47
1:I:583:LEU:HA	1:I:587:MET:SD	2.55	0.47
1:B:310:HIS:CD2	1:B:312:SER:HB2	2.50	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
1:I:699:TYR:CD2	1:I:723:LYS:HG3	2.49	0.47
1:K:647:GLU:OE1	1:K:695:LYS:HD3	2.15	0.47
1:O:206:TRP:HA	1:O:206:TRP:HE3	1.80	0.47
1:D:647:GLU:OE1	1:D:695:LYS:HD3	2.15	0.47
1:F:648:ASP:HB2	1:F:652:LEU:HD12	1.96	0.47
1:B:573:ASN:OD1	1:B:575:TYR:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:573:ASN:OD1	1:H:575:TYR:HB2	2.15	0.47
1:O:229:ALA:O	1:O:230:SER:CB	2.62	0.47
1:L:229:ALA:O	1:L:230:SER:CB	2.62	0.47
1:B:718:THR:HB	1:B:721:ILE:HD12	1.96	0.47
1:F:464:PHE:CD2	1:F:465:GLU:N	2.82	0.47
1:B:385:LEU:O	1:B:389:GLN:HB2	2.14	0.47
1:A:609:GLU:HA	1:A:724:ILE:HD13	1.96	0.47
1:J:385:LEU:O	1:J:389:GLN:HB2	2.14	0.47
1:F:609:GLU:HA	1:F:724:ILE:HD13	1.97	0.47
1:I:514:LEU:C	1:I:516:THR:H	2.18	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:K:413:SER:O	1:K:415:ASN:N	2.48	0.47
1:C:413:SER:O	1:C:415:ASN:N	2.48	0.47
1:L:413:SER:O	1:L:415:ASN:N	2.48	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:A:411:TYR:CB	1:A:412:PRO:CD	2.93	0.47
1:O:514:LEU:C	1:O:516:THR:H	2.18	0.47
1:E:185:ASP:O	1:E:186:SER:C	2.53	0.47
1:K:183:ILE:HG22	1:K:188:GLU:HB2	1.97	0.47
1:L:200:ARG:N	1:L:200:ARG:CD	2.71	0.47
1:A:636:ARG:HG3	1:A:636:ARG:HH11	1.80	0.47
1:A:459:ILE:HG12	1:A:477:TRP:CE2	2.50	0.47
1:K:200:ARG:CD	1:K:200:ARG:N	2.72	0.47
1:L:183:ILE:HG12	1:L:203:LEU:CD2	2.43	0.47
1:H:459:ILE:HG12	1:H:477:TRP:CE2	2.50	0.47
1:B:298:THR:HB	1:B:601:ASN:HB3	1.96	0.47
1:J:459:ILE:HG12	1:J:477:TRP:CE2	2.50	0.47
1:C:298:THR:HB	1:C:601:ASN:HB3	1.96	0.47
1:I:298:THR:HB	1:I:601:ASN:HB3	1.96	0.47
1:J:298:THR:HB	1:J:601:ASN:HB3	1.96	0.47
1:G:310:HIS:CD2	1:G:312:SER:HB2	2.50	0.47
1:O:310:HIS:CD2	1:O:312:SER:HB2	2.50	0.47
1:E:583:LEU:HA	1:E:587:MET:SD	2.55	0.47
1:D:583:LEU:HA	1:D:587:MET:SD	2.55	0.47
1:M:647:GLU:OE1	1:M:695:LYS:HD3	2.15	0.47
1:D:573:ASN:OD1	1:D:575:TYR:HB2	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:H:454:GLN:HA	1:H:456:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:514:LEU:C	1:D:516:THR:H	2.18	0.47
1:J:434:MET:HA	1:J:438:GLN:OE1	2.15	0.47
1:I:454:GLN:HA	1:I:456:TYR:CE2	2.50	0.47
1:E:514:LEU:C	1:E:516:THR:H	2.18	0.47
1:H:576:THR:C	1:H:578:LEU:H	2.16	0.47
1:L:434:MET:HA	1:L:438:GLN:OE1	2.15	0.47
1:F:454:GLN:HA	1:F:456:TYR:CE2	2.50	0.47
1:B:514:LEU:C	1:B:516:THR:H	2.18	0.47
1:C:514:LEU:C	1:C:516:THR:H	2.18	0.47
1:H:318:GLY:HA3	1:I:410:TYR:CE1	2.49	0.47
1:C:185:ASP:O	1:C:186:SER:C	2.53	0.47
1:H:411:TYR:CB	1:H:412:PRO:CD	2.93	0.47
1:M:413:SER:O	1:M:415:ASN:N	2.48	0.47
1:G:377:VAL:HG22	1:G:398:GLU:HB3	1.96	0.47
1:I:377:VAL:CG1	1:I:398:GLU:HG3	2.41	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:D:411:TYR:O	1:D:413:SER:N	2.48	0.47
1:A:411:TYR:O	1:A:413:SER:N	2.48	0.47
1:E:459:ILE:HG12	1:E:477:TRP:CE2	2.50	0.47
1:L:459:ILE:HG12	1:L:477:TRP:CE2	2.50	0.47
1:B:459:ILE:HG12	1:B:477:TRP:CE2	2.50	0.47
1:C:459:ILE:HG12	1:C:477:TRP:CE2	2.50	0.47
1:O:298:THR:HB	1:O:601:ASN:HB3	1.96	0.47
1:D:183:ILE:HG22	1:D:188:GLU:HB2	1.97	0.47
1:C:310:HIS:CD2	1:C:312:SER:HB2	2.50	0.47
1:G:583:LEU:HA	1:G:587:MET:SD	2.55	0.47
1:M:657:ASN:HB2	1:M:662:MET:CB	2.43	0.47
1:J:336:HIS:HB3	1:J:708:ILE:HG22	1.95	0.47
1:M:206:TRP:HA	1:M:206:TRP:HE3	1.80	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:F:647:GLU:OE1	1:F:695:LYS:HD3	2.15	0.47
1:K:718:THR:HB	1:K:721:ILE:HD12	1.96	0.47
1:I:229:ALA:O	1:I:230:SER:CB	2.62	0.47
1:L:250:GLU:N	1:L:250:GLU:OE1	2.48	0.47
1:G:250:GLU:N	1:G:250:GLU:OE1	2.48	0.47
1:H:434:MET:HA	1:H:438:GLN:OE1	2.15	0.47
1:L:377:VAL:HG22	1:L:398:GLU:HB3	1.96	0.47
1:D:665:ILE:HG13	1:D:666:SER:N	2.30	0.47
1:L:394:ILE:CG2	1:L:421:LEU:HD22	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:TYR:CB	1:B:412:PRO:CD	2.93	0.47
1:D:310:HIS:CD2	1:D:312:SER:HB2	2.50	0.47
1:G:185:ASP:O	1:G:186:SER:C	2.53	0.47
1:I:183:ILE:HG12	1:I:203:LEU:CD2	2.43	0.47
1:H:226:TRP:CD2	1:I:466:ASN:HB2	2.50	0.47
1:B:183:ILE:HG22	1:B:188:GLU:HB2	1.97	0.47
1:B:183:ILE:HG12	1:B:203:LEU:CD2	2.43	0.47
1:K:298:THR:HB	1:K:601:ASN:HB3	1.96	0.47
1:B:234:SER:O	1:B:235:ASP:C	2.52	0.47
1:J:310:HIS:CD2	1:J:312:SER:HB2	2.50	0.47
1:F:583:LEU:HA	1:F:587:MET:SD	2.55	0.47
1:O:310:HIS:HD2	1:O:312:SER:HB2	1.78	0.47
1:A:207:ILE:HG21	1:A:210:ILE:HG12	1.96	0.47
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.79	0.47
1:E:454:GLN:HA	1:E:456:TYR:CE2	2.50	0.47
1:L:468:ARG:HG3	1:L:468:ARG:HH11	1.79	0.47
1:G:458:ASN:HD22	1:G:476:ASN:HD22	1.63	0.47
1:C:411:TYR:O	1:C:413:SER:N	2.48	0.46
1:O:665:ILE:HG13	1:O:666:SER:N	2.30	0.46
1:F:367:VAL:HG23	1:F:410:TYR:HA	1.96	0.46
1:O:271:LEU:CD1	1:O:289:ILE:HD11	2.36	0.46
1:E:195:ASP:CG	1:E:196:VAL:H	2.17	0.46
1:K:514:LEU:C	1:K:516:THR:H	2.18	0.46
1:B:636:ARG:HG3	1:B:636:ARG:HH11	1.80	0.46
1:L:183:ILE:HG22	1:L:188:GLU:HB2	1.97	0.46
1:O:183:ILE:HG22	1:O:188:GLU:HB2	1.97	0.46
1:M:183:ILE:HG22	1:M:188:GLU:HB2	1.97	0.46
1:H:583:LEU:HA	1:H:587:MET:SD	2.55	0.46
1:A:310:HIS:CD2	1:A:312:SER:HB2	2.50	0.46
1:J:583:LEU:HA	1:J:587:MET:SD	2.55	0.46
1:L:583:LEU:HA	1:L:587:MET:SD	2.55	0.46
1:I:647:GLU:OE1	1:I:695:LYS:HD3	2.15	0.46
1:D:648:ASP:HB2	1:D:652:LEU:HD12	1.96	0.46
1:B:647:GLU:OE1	1:B:695:LYS:HD3	2.15	0.46
1:E:718:THR:HB	1:E:721:ILE:HD12	1.96	0.46
1:H:346:TRP:CZ3	1:H:443:GLU:HA	2.51	0.46
1:D:480:VAL:HG21	1:E:468:ARG:HH11	1.80	0.46
1:I:434:MET:HA	1:I:438:GLN:OE1	2.15	0.46
1:E:434:MET:HA	1:E:438:GLN:OE1	2.15	0.46
1:O:458:ASN:HD22	1:O:476:ASN:HD22	1.63	0.46
1:D:454:GLN:HA	1:D:456:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:250:GLU:OE1	1:O:250:GLU:N	2.48	0.46
1:G:454:GLN:HA	1:G:456:TYR:CE2	2.50	0.46
1:A:454:GLN:HA	1:A:456:TYR:CE2	2.50	0.46
1:A:305:GLY:HA2	1:B:670:GLN:HE21	1.26	0.46
1:J:377:VAL:HG22	1:J:398:GLU:HB3	1.96	0.46
1:C:665:ILE:HG13	1:C:666:SER:N	2.30	0.46
1:J:411:TYR:CD2	1:J:412:PRO:N	2.84	0.46
1:A:413:SER:O	1:A:415:ASN:N	2.48	0.46
1:G:183:ILE:HG22	1:G:188:GLU:HB2	1.97	0.46
1:A:514:LEU:C	1:A:516:THR:H	2.18	0.46
1:K:185:ASP:O	1:K:186:SER:C	2.53	0.46
1:J:636:ARG:HH11	1:J:636:ARG:HG3	1.80	0.46
1:O:481:LEU:HD23	1:O:481:LEU:C	2.36	0.46
1:L:481:LEU:HD23	1:L:481:LEU:C	2.36	0.46
1:I:481:LEU:C	1:I:481:LEU:HD23	2.36	0.46
1:F:481:LEU:HD23	1:F:481:LEU:C	2.36	0.46
1:I:468:ARG:HH11	1:I:468:ARG:HG3	1.79	0.46
1:M:183:ILE:HG12	1:M:203:LEU:CD2	2.43	0.46
1:E:234:SER:O	1:E:235:ASP:C	2.52	0.46
1:H:310:HIS:CD2	1:H:312:SER:HB2	2.50	0.46
1:C:647:GLU:OE1	1:C:695:LYS:HD3	2.15	0.46
1:E:206:TRP:HA	1:E:206:TRP:HE3	1.80	0.46
1:H:336:HIS:HB3	1:H:708:ILE:HG22	1.95	0.46
1:G:573:ASN:OD1	1:G:575:TYR:HB2	2.15	0.46
1:E:573:ASN:OD1	1:E:575:TYR:HB2	2.15	0.46
1:I:346:TRP:CZ3	1:I:443:GLU:HA	2.51	0.46
1:B:346:TRP:CZ3	1:B:443:GLU:HA	2.51	0.46
1:F:250:GLU:OE1	1:F:250:GLU:N	2.48	0.46
1:A:434:MET:HA	1:A:438:GLN:OE1	2.15	0.46
1:G:434:MET:HA	1:G:438:GLN:OE1	2.15	0.46
1:G:411:TYR:CD2	1:G:412:PRO:N	2.84	0.46
1:G:318:GLY:HA2	1:H:410:TYR:CE1	2.50	0.46
1:D:377:VAL:HG22	1:D:398:GLU:HB3	1.96	0.46
1:C:411:TYR:CB	1:C:412:PRO:CD	2.93	0.46
1:L:411:TYR:O	1:L:413:SER:N	2.48	0.46
1:A:665:ILE:HG13	1:A:666:SER:N	2.30	0.46
1:E:411:TYR:O	1:E:413:SER:N	2.48	0.46
1:D:411:TYR:CB	1:D:412:PRO:CD	2.93	0.46
1:D:411:TYR:CD2	1:D:412:PRO:N	2.84	0.46
1:K:360:LEU:HD12	1:K:361:ASN:N	2.29	0.46
1:G:514:LEU:C	1:G:516:THR:H	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:183:ILE:HG12	1:E:203:LEU:CD2	2.43	0.46
1:L:516:THR:HB	1:M:196:VAL:HG11	1.97	0.46
1:F:636:ARG:HG3	1:F:636:ARG:HH11	1.80	0.46
1:H:636:ARG:HG3	1:H:636:ARG:HH11	1.80	0.46
1:E:481:LEU:HD23	1:E:481:LEU:C	2.36	0.46
1:H:480:VAL:HG21	1:I:468:ARG:HG3	1.98	0.46
1:H:185:ASP:O	1:H:186:SER:C	2.53	0.46
1:A:183:ILE:HG22	1:A:188:GLU:HB2	1.97	0.46
1:E:647:GLU:OE1	1:E:695:LYS:HD3	2.15	0.46
1:L:206:TRP:HE3	1:L:206:TRP:HA	1.80	0.46
1:H:718:THR:HB	1:H:721:ILE:HD12	1.96	0.46
1:G:385:LEU:O	1:G:389:GLN:HB2	2.14	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:H:411:TYR:O	1:H:413:SER:N	2.48	0.46
1:A:377:VAL:CG1	1:A:398:GLU:HG3	2.41	0.46
1:M:377:VAL:HG22	1:M:398:GLU:HB3	1.96	0.46
1:B:413:SER:O	1:B:415:ASN:N	2.48	0.46
1:H:200:ARG:HH11	1:H:200:ARG:HG2	1.81	0.46
1:J:183:ILE:HG22	1:J:188:GLU:HB2	1.97	0.46
1:J:234:SER:O	1:J:235:ASP:C	2.52	0.46
1:J:481:LEU:C	1:J:481:LEU:HD23	2.36	0.46
1:O:584:ASN:H	1:O:587:MET:HE3	1.81	0.46
1:G:657:ASN:HB2	1:G:662:MET:CB	2.43	0.46
1:C:336:HIS:HB3	1:C:708:ILE:HG22	1.95	0.46
1:G:647:GLU:OE1	1:G:695:LYS:HD3	2.15	0.46
1:O:336:HIS:HB3	1:O:708:ILE:HG22	1.96	0.46
1:J:573:ASN:OD1	1:J:575:TYR:HB2	2.15	0.46
1:L:718:THR:HB	1:L:721:ILE:HD12	1.96	0.46
1:A:718:THR:HB	1:A:721:ILE:HD12	1.96	0.46
1:G:227:SER:O	1:G:230:SER:N	2.39	0.46
1:I:573:ASN:OD1	1:I:575:TYR:HB2	2.15	0.46
1:O:454:GLN:HA	1:O:456:TYR:CE2	2.50	0.46
1:C:454:GLN:HA	1:C:456:TYR:CE2	2.50	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:M:411:TYR:CB	1:M:412:PRO:CD	2.93	0.46
1:L:367:VAL:HG23	1:L:410:TYR:HA	1.96	0.46
1:G:665:ILE:HG13	1:G:666:SER:N	2.30	0.46
1:J:411:TYR:O	1:J:413:SER:N	2.48	0.46
1:I:316:ILE:HD13	1:J:496:LYS:HD3	1.92	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:D:200:ARG:CD	1:D:200:ARG:N	2.71	0.46
1:B:200:ARG:HG2	1:B:200:ARG:HH11	1.81	0.46
1:J:200:ARG:HG2	1:J:200:ARG:HH11	1.81	0.46
1:M:468:ARG:HH11	1:M:468:ARG:HG3	1.79	0.46
1:I:459:ILE:HG12	1:I:477:TRP:CE2	2.50	0.46
1:A:481:LEU:HD23	1:A:481:LEU:C	2.36	0.46
1:H:521:MET:HE1	1:H:525:GLU:CG	2.40	0.46
1:L:185:ASP:O	1:L:186:SER:C	2.53	0.46
1:H:514:LEU:C	1:H:516:THR:H	2.18	0.46
1:M:185:ASP:O	1:M:186:SER:C	2.53	0.46
1:D:185:ASP:O	1:D:186:SER:C	2.53	0.46
1:C:718:THR:HB	1:C:721:ILE:HD12	1.96	0.46
1:I:718:THR:HB	1:I:721:ILE:HD12	1.96	0.46
1:O:464:PHE:CD2	1:O:465:GLU:N	2.82	0.46
1:E:346:TRP:CZ3	1:E:443:GLU:HA	2.51	0.46
1:M:346:TRP:CZ3	1:M:443:GLU:HA	2.51	0.46
1:J:458:ASN:HD22	1:J:476:ASN:HD22	1.63	0.46
1:C:458:ASN:HD22	1:C:476:ASN:HD22	1.63	0.46
1:F:458:ASN:HD22	1:F:476:ASN:HD22	1.63	0.46
1:O:198:ASN:O	1:O:199:LYS:HD2	2.16	0.46
1:H:411:TYR:CD2	1:H:412:PRO:N	2.84	0.46
1:I:310:HIS:CD2	1:I:312:SER:HB2	2.50	0.46
1:E:413:SER:O	1:E:415:ASN:N	2.48	0.46
1:O:411:TYR:CD2	1:O:412:PRO:N	2.84	0.46
1:A:411:TYR:CD2	1:A:412:PRO:N	2.84	0.46
1:L:198:ASN:O	1:L:199:LYS:HD2	2.16	0.46
1:M:607:ALA:H	1:M:638:ILE:CD1	2.20	0.46
1:M:636:ARG:HG3	1:M:636:ARG:HH11	1.80	0.46
1:D:607:ALA:H	1:D:638:ILE:CD1	2.20	0.46
1:G:459:ILE:HG12	1:G:477:TRP:CE2	2.50	0.46
1:G:481:LEU:HD23	1:G:481:LEU:C	2.36	0.46
1:H:480:VAL:HG11	1:I:468:ARG:HH11	1.80	0.46
1:J:185:ASP:O	1:J:186:SER:C	2.53	0.46
1:D:481:LEU:HD23	1:D:481:LEU:C	2.36	0.46
1:L:310:HIS:CD2	1:L:312:SER:HB2	2.50	0.46
1:B:583:LEU:HA	1:B:587:MET:SD	2.55	0.46
1:D:234:SER:O	1:D:235:ASP:C	2.52	0.46
1:A:583:LEU:HA	1:A:587:MET:SD	2.55	0.46
1:L:573:ASN:OD1	1:L:575:TYR:HB2	2.15	0.46
1:F:573:ASN:OD1	1:F:575:TYR:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:346:TRP:CZ3	1:L:443:GLU:HA	2.51	0.46
1:O:346:TRP:CZ3	1:O:443:GLU:HA	2.51	0.46
1:O:609:GLU:HA	1:O:724:ILE:HD13	1.96	0.46
1:J:514:LEU:C	1:J:516:THR:H	2.18	0.46
1:M:514:LEU:C	1:M:516:THR:H	2.18	0.46
1:O:434:MET:HA	1:O:438:GLN:OE1	2.15	0.46
1:G:414:LYS:CD	1:M:319:SER:N	2.78	0.46
1:M:367:VAL:HG23	1:M:410:TYR:HA	1.96	0.46
1:L:398:GLU:C	1:L:400:GLN:N	2.69	0.46
1:I:665:ILE:HG13	1:I:666:SER:N	2.30	0.46
1:K:394:ILE:CG2	1:K:421:LEU:HD22	2.39	0.46
1:F:185:ASP:O	1:F:186:SER:C	2.53	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
1:H:198:ASN:O	1:H:199:LYS:HD2	2.16	0.46
1:E:200:ARG:HH11	1:E:200:ARG:HG2	1.81	0.46
1:I:183:ILE:HG22	1:I:188:GLU:HB2	1.97	0.46
1:E:521:MET:HE2	1:E:525:GLU:HB3	1.97	0.46
1:E:481:LEU:N	1:E:482:PRO:CD	2.74	0.46
1:F:459:ILE:HG12	1:F:477:TRP:CE2	2.50	0.46
1:K:481:LEU:C	1:K:481:LEU:HD23	2.36	0.46
1:D:481:LEU:N	1:D:482:PRO:CD	2.74	0.46
1:B:185:ASP:O	1:B:186:SER:C	2.53	0.46
1:K:206:TRP:HE3	1:K:206:TRP:HA	1.80	0.46
1:F:718:THR:HB	1:F:721:ILE:HD12	1.96	0.46
1:J:346:TRP:CZ3	1:J:443:GLU:HA	2.51	0.46
1:D:346:TRP:CZ3	1:D:443:GLU:HA	2.51	0.46
1:K:346:TRP:CZ3	1:K:443:GLU:HA	2.50	0.46
1:M:434:MET:HA	1:M:438:GLN:OE1	2.15	0.46
1:L:458:ASN:HD22	1:L:476:ASN:HD22	1.63	0.46
1:M:411:TYR:CD2	1:M:412:PRO:N	2.84	0.46
1:L:411:TYR:CB	1:L:412:PRO:CD	2.93	0.46
1:E:665:ILE:HG13	1:E:666:SER:N	2.30	0.46
1:B:411:TYR:CD2	1:B:412:PRO:N	2.84	0.46
1:D:413:SER:O	1:D:415:ASN:N	2.48	0.46
1:D:270:ILE:CG2	1:D:361:ASN:HB3	2.46	0.46
1:D:198:ASN:O	1:D:199:LYS:HD2	2.16	0.46
1:D:200:ARG:HH11	1:D:200:ARG:HG2	1.81	0.46
1:L:200:ARG:HG2	1:L:200:ARG:HH11	1.81	0.46
1:K:483:GLN:NE2	1:L:245:LYS:H	2.14	0.46
1:C:481:LEU:HD23	1:C:481:LEU:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:234:SER:O	1:H:235:ASP:C	2.52	0.46
1:J:648:ASP:HB2	1:J:652:LEU:HD12	1.96	0.46
1:K:464:PHE:CD2	1:K:465:GLU:N	2.82	0.46
1:C:346:TRP:CZ3	1:C:443:GLU:HA	2.51	0.46
1:G:458:ASN:OD1	1:G:473:THR:HA	2.16	0.46
1:H:458:ASN:OD1	1:H:473:THR:HA	2.16	0.46
1:A:458:ASN:OD1	1:A:473:THR:HA	2.16	0.46
1:D:434:MET:HA	1:D:438:GLN:OE1	2.15	0.46
1:I:250:GLU:OE1	1:I:250:GLU:N	2.48	0.46
1:D:458:ASN:HD22	1:D:476:ASN:HD22	1.63	0.46
1:I:308:GLU:OE2	1:J:667:SER:OG	2.28	0.46
1:K:434:MET:HA	1:K:438:GLN:OE1	2.15	0.46
1:M:454:GLN:HA	1:M:456:TYR:CE2	2.50	0.46
1:I:411:TYR:CD2	1:I:412:PRO:N	2.84	0.46
1:B:398:GLU:C	1:B:400:GLN:N	2.69	0.46
1:C:198:ASN:O	1:C:199:LYS:HD2	2.16	0.46
1:E:270:ILE:CG2	1:E:361:ASN:HB3	2.46	0.46
1:M:271:LEU:CD1	1:M:289:ILE:HD11	2.36	0.46
1:A:271:LEU:CD1	1:A:289:ILE:HD11	2.36	0.46
1:D:224:GLU:OE2	1:E:201:THR:N	2.48	0.46
1:G:636:ARG:HH11	1:G:636:ARG:HG3	1.80	0.46
1:E:607:ALA:H	1:E:638:ILE:CD1	2.20	0.46
1:A:308:GLU:OE2	1:B:667:SER:OG	2.30	0.46
1:O:459:ILE:HG12	1:O:477:TRP:CE2	2.50	0.46
1:A:670:GLN:HE21	1:F:305:GLY:CA	2.28	0.46
1:F:206:TRP:HE3	1:F:206:TRP:HA	1.80	0.46
1:H:206:TRP:HE3	1:H:206:TRP:HA	1.80	0.46
1:M:464:PHE:CD2	1:M:465:GLU:N	2.82	0.46
1:I:609:GLU:HA	1:I:724:ILE:HD13	1.96	0.46
1:L:458:ASN:OD1	1:L:473:THR:HA	2.16	0.46
1:B:454:GLN:HA	1:B:456:TYR:CE2	2.50	0.46
1:J:454:GLN:HA	1:J:456:TYR:CE2	2.50	0.46
1:A:250:GLU:OE1	1:A:250:GLU:N	2.48	0.46
1:H:250:GLU:N	1:H:250:GLU:OE1	2.48	0.46
1:I:458:ASN:HD22	1:I:476:ASN:HD22	1.63	0.46
1:L:454:GLN:HA	1:L:456:TYR:CE2	2.50	0.46
1:A:303:VAL:CG2	1:B:670:GLN:HG2	2.46	0.46
1:K:411:TYR:CD2	1:K:412:PRO:N	2.84	0.46
1:C:183:ILE:HG22	1:C:188:GLU:HB2	1.97	0.46
1:H:365:ARG:HH11	1:H:414:LYS:HD3	1.81	0.46
1:M:398:GLU:C	1:M:400:GLN:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:M:200:ARG:HG2	1:M:200:ARG:HH11	1.81	0.46
1:G:468:ARG:HH11	1:M:480:VAL:HG21	1.80	0.46
1:M:481:LEU:C	1:M:481:LEU:HD23	2.36	0.46
1:G:200:ARG:HG2	1:G:200:ARG:HH11	1.81	0.46
1:K:584:ASN:H	1:K:587:MET:HE1	1.80	0.46
1:J:206:TRP:HE3	1:J:206:TRP:HA	1.80	0.46
1:J:647:GLU:OE1	1:J:695:LYS:HD3	2.15	0.46
1:G:346:TRP:CZ3	1:G:443:GLU:HA	2.51	0.46
1:I:458:ASN:OD1	1:I:473:THR:HA	2.16	0.46
1:F:273:LYS:N	1:F:350:MET:HE3	2.31	0.46
1:H:338:LEU:HD21	1:H:661:ASP:CG	2.37	0.46
1:O:338:LEU:HD21	1:O:661:ASP:CG	2.37	0.46
1:I:365:ARG:HH11	1:I:414:LYS:HD3	1.81	0.45
1:D:398:GLU:C	1:D:400:GLN:N	2.69	0.45
1:L:411:TYR:CD2	1:L:412:PRO:N	2.84	0.45
1:L:665:ILE:HG13	1:L:666:SER:N	2.30	0.45
1:D:670:GLN:HE21	1:O:305:GLY:CA	2.27	0.45
1:J:365:ARG:HH11	1:J:414:LYS:HD3	1.82	0.45
1:E:411:TYR:CB	1:E:412:PRO:CD	2.93	0.45
1:K:270:ILE:CG2	1:K:361:ASN:HB3	2.46	0.45
1:C:270:ILE:CG2	1:C:361:ASN:HB3	2.46	0.45
1:L:360:LEU:HD12	1:L:361:ASN:N	2.29	0.45
1:I:270:ILE:CG2	1:I:361:ASN:HB3	2.46	0.45
1:G:515:GLU:OE1	1:H:245:LYS:HE2	2.15	0.45
1:J:198:ASN:O	1:J:199:LYS:HD2	2.16	0.45
1:D:636:ARG:HH11	1:D:636:ARG:HG3	1.80	0.45
1:I:607:ALA:H	1:I:638:ILE:CD1	2.20	0.45
1:J:596:PHE:CD1	1:J:596:PHE:N	2.84	0.45
1:B:596:PHE:N	1:B:596:PHE:CD1	2.84	0.45
1:O:636:ARG:HG3	1:O:636:ARG:HH11	1.80	0.45
1:G:481:LEU:N	1:G:482:PRO:CD	2.75	0.45
1:B:481:LEU:HD23	1:B:481:LEU:C	2.36	0.45
1:J:220:LYS:O	1:J:519:PRO:HG2	2.16	0.45
1:H:647:GLU:OE1	1:H:695:LYS:HD3	2.15	0.45
1:G:206:TRP:HA	1:G:206:TRP:HE3	1.80	0.45
1:I:206:TRP:HE3	1:I:206:TRP:HA	1.80	0.45
1:B:458:ASN:OD1	1:B:473:THR:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ASN:HD22	1:A:476:ASN:HD22	1.63	0.45
1:D:338:LEU:HD21	1:D:661:ASP:CG	2.37	0.45
1:F:434:MET:HA	1:F:438:GLN:OE1	2.15	0.45
1:F:338:LEU:HD21	1:F:661:ASP:CG	2.37	0.45
1:G:305:GLY:CA	1:H:670:GLN:HG3	2.42	0.45
1:H:665:ILE:HG13	1:H:666:SER:N	2.30	0.45
1:G:245:LYS:HG3	1:M:487:THR:CG2	2.46	0.45
1:A:245:LYS:H	1:F:483:GLN:NE2	2.14	0.45
1:F:411:TYR:CD2	1:F:412:PRO:N	2.84	0.45
1:D:365:ARG:HH11	1:D:414:LYS:HD3	1.82	0.45
1:J:270:ILE:CG2	1:J:361:ASN:HB3	2.46	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
1:I:220:LYS:O	1:I:519:PRO:HG2	2.17	0.45
1:G:607:ALA:N	1:G:638:ILE:HD12	2.22	0.45
1:H:481:LEU:HD23	1:H:481:LEU:C	2.36	0.45
1:O:220:LYS:O	1:O:519:PRO:HG2	2.16	0.45
1:A:206:TRP:HA	1:A:206:TRP:HE3	1.80	0.45
1:F:458:ASN:OD1	1:F:473:THR:HA	2.16	0.45
1:M:458:ASN:OD1	1:M:473:THR:HA	2.16	0.45
1:K:338:LEU:HD21	1:K:661:ASP:CG	2.37	0.45
1:E:250:GLU:N	1:E:250:GLU:OE1	2.48	0.45
1:D:250:GLU:N	1:D:250:GLU:OE1	2.48	0.45
1:F:346:TRP:CZ3	1:F:443:GLU:HA	2.51	0.45
1:E:458:ASN:HD22	1:E:476:ASN:HD22	1.63	0.45
1:K:398:GLU:C	1:K:400:GLN:N	2.69	0.45
1:O:377:VAL:CG1	1:O:398:GLU:HG3	2.41	0.45
1:J:665:ILE:HG13	1:J:666:SER:N	2.30	0.45
1:K:665:ILE:HG13	1:K:666:SER:N	2.30	0.45
1:L:270:ILE:CG2	1:L:361:ASN:HB3	2.46	0.45
1:I:360:LEU:HD12	1:I:361:ASN:N	2.29	0.45
1:F:270:ILE:CG2	1:F:361:ASN:HB3	2.46	0.45
1:G:220:LYS:O	1:G:519:PRO:HG2	2.16	0.45
1:B:198:ASN:O	1:B:199:LYS:HD2	2.16	0.45
1:A:270:ILE:CG2	1:A:361:ASN:HB3	2.46	0.45
1:E:220:LYS:O	1:E:519:PRO:HG2	2.16	0.45
1:F:198:ASN:O	1:F:199:LYS:HD2	2.16	0.45
1:I:178:ARG:CZ	1:J:200:ARG:HB3	2.46	0.45
1:D:521:MET:CE	1:D:522:THR:H	2.26	0.45
1:L:636:ARG:HG3	1:L:636:ARG:HH11	1.80	0.45
1:G:198:ASN:O	1:G:199:LYS:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:220:LYS:O	1:L:519:PRO:HG2	2.16	0.45
1:I:198:ASN:O	1:I:199:LYS:HD2	2.16	0.45
1:H:183:ILE:HG22	1:H:188:GLU:HB2	1.97	0.45
1:J:265:ASP:HA	1:J:295:THR:HG21	1.99	0.45
1:L:265:ASP:HA	1:L:295:THR:HG21	1.99	0.45
1:A:647:GLU:OE1	1:A:695:LYS:HD3	2.15	0.45
1:I:308:GLU:OE2	1:J:667:SER:CB	2.65	0.45
1:A:338:LEU:HD21	1:A:661:ASP:CG	2.37	0.45
1:I:338:LEU:HD21	1:I:661:ASP:CG	2.37	0.45
1:O:200:ARG:HG2	1:O:200:ARG:HH11	1.81	0.45
1:M:365:ARG:HH11	1:M:414:LYS:HD3	1.81	0.45
1:C:411:TYR:CD2	1:C:412:PRO:N	2.84	0.45
1:K:316:ILE:HD11	1:L:496:LYS:CB	2.43	0.45
1:A:198:ASN:O	1:A:199:LYS:HD2	2.16	0.45
1:F:271:LEU:CD1	1:F:289:ILE:HD11	2.36	0.45
1:E:483:GLN:HE22	1:F:245:LYS:H	1.63	0.45
1:K:636:ARG:HH11	1:K:636:ARG:HG3	1.80	0.45
1:I:636:ARG:HH11	1:I:636:ARG:HG3	1.80	0.45
1:E:636:ARG:HH11	1:E:636:ARG:HG3	1.80	0.45
1:K:198:ASN:O	1:K:199:LYS:HD2	2.16	0.45
1:L:187:LEU:O	1:L:192:TYR:HD2	2.00	0.45
1:H:220:LYS:O	1:H:519:PRO:HG2	2.16	0.45
1:A:185:ASP:O	1:A:186:SER:C	2.53	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:O:458:ASN:OD1	1:O:473:THR:HA	2.16	0.45
1:C:434:MET:HA	1:C:438:GLN:OE1	2.15	0.45
1:G:410:TYR:N	1:G:410:TYR:CD1	2.85	0.45
1:J:398:GLU:C	1:J:400:GLN:N	2.69	0.45
1:F:665:ILE:HG13	1:F:666:SER:N	2.31	0.45
1:A:200:ARG:HG2	1:A:200:ARG:HH11	1.81	0.45
1:E:365:ARG:HH11	1:E:414:LYS:HD3	1.82	0.45
1:C:200:ARG:HG2	1:C:200:ARG:HH11	1.81	0.45
1:I:179:ASP:O	1:I:180:ASN:HB3	2.17	0.45
1:G:466:ASN:OD1	1:G:468:ARG:HB2	2.17	0.45
1:M:466:ASN:OD1	1:M:468:ARG:HB2	2.17	0.45
1:A:187:LEU:O	1:A:192:TYR:HD2	2.00	0.45
1:B:220:LYS:O	1:B:519:PRO:HG2	2.17	0.45
1:K:265:ASP:HA	1:K:295:THR:HG21	1.99	0.45
1:F:265:ASP:HA	1:F:295:THR:HG21	1.99	0.45
1:K:458:ASN:OD1	1:K:473:THR:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:LEU:HD21	1:C:661:ASP:CG	2.37	0.45
1:E:479:GLU:OE1	1:F:470:ARG:HA	2.16	0.45
1:B:338:LEU:HD21	1:B:661:ASP:CG	2.37	0.45
1:C:224:GLU:OE2	1:O:201:THR:CB	2.65	0.45
1:H:366:TYR:O	1:H:411:TYR:N	2.40	0.45
1:C:410:TYR:N	1:C:410:TYR:CD1	2.85	0.45
1:G:377:VAL:CG1	1:G:398:GLU:HG3	2.41	0.45
1:B:410:TYR:N	1:B:410:TYR:CD1	2.85	0.45
1:G:360:LEU:HD12	1:G:361:ASN:N	2.29	0.45
1:D:179:ASP:O	1:D:180:ASN:HB3	2.17	0.45
1:C:596:PHE:N	1:C:596:PHE:CD1	2.84	0.45
1:I:466:ASN:OD1	1:I:468:ARG:HB2	2.17	0.45
1:H:187:LEU:O	1:H:192:TYR:HD2	2.00	0.45
1:D:466:ASN:OD1	1:D:468:ARG:HB2	2.17	0.45
1:O:265:ASP:HA	1:O:295:THR:HG21	1.99	0.45
1:F:234:SER:O	1:F:235:ASP:C	2.52	0.45
1:E:466:ASN:OD1	1:E:468:ARG:HB2	2.17	0.45
1:H:458:ASN:HD22	1:H:476:ASN:HD22	1.63	0.45
1:D:458:ASN:OD1	1:D:473:THR:HA	2.16	0.45
1:J:338:LEU:HD21	1:J:661:ASP:CG	2.37	0.45
1:F:514:LEU:C	1:F:516:THR:H	2.18	0.45
1:G:608:ASP:O	1:G:612:VAL:HG23	2.17	0.45
1:E:338:LEU:HD21	1:E:661:ASP:CG	2.37	0.45
1:I:410:TYR:CD1	1:I:410:TYR:N	2.85	0.45
1:C:187:LEU:O	1:C:192:TYR:HD2	2.00	0.45
1:H:398:GLU:C	1:H:400:GLN:N	2.69	0.45
1:B:665:ILE:HG13	1:B:666:SER:N	2.30	0.45
1:E:179:ASP:O	1:E:180:ASN:HB3	2.17	0.45
1:F:200:ARG:HG2	1:F:200:ARG:HH11	1.81	0.45
1:J:179:ASP:O	1:J:180:ASN:HB3	2.17	0.45
1:I:187:LEU:O	1:I:192:TYR:HD2	2.00	0.45
1:M:198:ASN:O	1:M:199:LYS:HD2	2.16	0.45
1:B:607:ALA:H	1:B:638:ILE:CD1	2.20	0.45
1:K:601:ASN:HB2	1:K:603:ILE:HD11	1.99	0.45
1:M:265:ASP:HA	1:M:295:THR:HG21	1.99	0.45
1:I:265:ASP:HA	1:I:295:THR:HG21	1.99	0.45
1:D:206:TRP:HA	1:D:206:TRP:HE3	1.80	0.45
1:J:464:PHE:CD2	1:J:465:GLU:N	2.82	0.45
1:I:253:HIS:HA	1:I:254:PRO:HD3	1.89	0.45
1:A:346:TRP:CZ3	1:A:443:GLU:HA	2.51	0.45
1:F:466:ASN:OD1	1:F:468:ARG:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:ASN:OD1	1:E:473:THR:HA	2.16	0.45
1:M:338:LEU:HD21	1:M:661:ASP:CG	2.37	0.45
1:D:305:GLY:HA2	1:E:670:GLN:CG	2.47	0.45
1:A:398:GLU:C	1:A:400:GLN:N	2.69	0.45
1:O:398:GLU:C	1:O:400:GLN:N	2.69	0.45
1:E:411:TYR:CD2	1:E:412:PRO:N	2.84	0.45
1:B:224:GLU:OE2	1:C:201:THR:CG2	2.59	0.45
1:G:271:LEU:CD1	1:G:289:ILE:HD11	2.36	0.45
1:G:596:PHE:N	1:G:596:PHE:CD1	2.84	0.45
1:O:185:ASP:O	1:O:186:SER:C	2.53	0.45
1:E:721:ILE:CG2	1:E:722:LYS:N	2.80	0.45
1:I:721:ILE:CG2	1:I:722:LYS:N	2.80	0.45
1:C:458:ASN:OD1	1:C:473:THR:HA	2.16	0.45
1:D:608:ASP:O	1:D:612:VAL:HG23	2.17	0.45
1:F:608:ASP:O	1:F:612:VAL:HG23	2.17	0.45
1:M:410:TYR:CD1	1:M:410:TYR:N	2.85	0.45
1:E:398:GLU:C	1:E:400:GLN:N	2.69	0.45
1:H:179:ASP:O	1:H:180:ASN:HB3	2.17	0.45
1:A:199:LYS:HG3	1:F:189:VAL:CG1	2.45	0.45
1:D:414:LYS:CG	1:O:319:SER:HA	2.47	0.45
1:O:410:TYR:CD1	1:O:410:TYR:N	2.85	0.45
1:G:179:ASP:O	1:G:180:ASN:HB3	2.17	0.45
1:G:187:LEU:O	1:G:192:TYR:HD2	2.00	0.45
1:I:512:ASP:OD1	1:J:245:LYS:HE3	2.17	0.45
1:L:179:ASP:O	1:L:180:ASN:HB3	2.17	0.45
1:K:607:ALA:N	1:K:638:ILE:HD12	2.22	0.45
1:G:471:VAL:CG2	1:M:479:GLU:HG2	2.46	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:I:691:ASN:HB3	1:I:694:TYR:CE2	2.52	0.45
1:H:466:ASN:OD1	1:H:468:ARG:HB2	2.17	0.45
1:A:691:ASN:HB3	1:A:694:TYR:CE2	2.52	0.45
1:G:691:ASN:HB3	1:G:694:TYR:CE2	2.52	0.45
1:B:273:LYS:N	1:B:350:MET:HE3	2.32	0.45
1:K:608:ASP:O	1:K:612:VAL:HG23	2.17	0.45
1:E:608:ASP:O	1:E:612:VAL:HG23	2.17	0.45
1:B:250:GLU:OE1	1:B:250:GLU:N	2.48	0.45
1:A:608:ASP:O	1:A:612:VAL:HG23	2.17	0.45
1:B:608:ASP:O	1:B:612:VAL:HG23	2.17	0.45
1:H:377:VAL:CG1	1:H:398:GLU:HG3	2.41	0.45
1:M:179:ASP:O	1:M:180:ASN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:179:ASP:O	1:B:180:ASN:HB3	2.17	0.45
1:J:521:MET:CE	1:J:522:THR:H	2.26	0.45
1:O:607:ALA:N	1:O:638:ILE:HD12	2.22	0.45
1:E:232:PRO:O	1:E:233:TYR:CG	2.70	0.45
1:H:601:ASN:HB2	1:H:603:ILE:HD11	1.99	0.45
1:I:200:ARG:HH11	1:I:200:ARG:HG2	1.81	0.45
1:D:187:LEU:O	1:D:192:TYR:HD2	2.00	0.45
1:C:721:ILE:CG2	1:C:722:LYS:N	2.80	0.45
1:F:253:HIS:HE1	1:F:255:LEU:HG	1.83	0.45
1:M:609:GLU:HG2	1:M:724:ILE:CD1	2.47	0.45
1:K:609:GLU:HG2	1:K:724:ILE:CD1	2.47	0.45
1:E:691:ASN:HB3	1:E:694:TYR:CE2	2.52	0.45
1:I:306:ASN:HA	1:J:669:ARG:CB	2.47	0.45
1:M:691:ASN:HB3	1:M:694:TYR:CE2	2.52	0.45
1:B:691:ASN:HB3	1:B:694:TYR:CE2	2.52	0.45
1:A:466:ASN:OD1	1:A:468:ARG:HB2	2.17	0.45
1:J:608:ASP:O	1:J:612:VAL:HG23	2.17	0.45
1:K:410:TYR:CD1	1:K:410:TYR:N	2.85	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
1:F:377:VAL:CG1	1:F:398:GLU:HG3	2.41	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:I:481:LEU:N	1:I:482:PRO:CD	2.74	0.44
1:G:240:THR:O	1:M:513:PRO:HB2	2.17	0.44
1:K:200:ARG:HG2	1:K:200:ARG:HH11	1.81	0.44
1:O:601:ASN:HB2	1:O:603:ILE:HD11	1.99	0.44
1:A:601:ASN:HB2	1:A:603:ILE:HD11	1.99	0.44
1:J:226:TRP:CG	1:K:466:ASN:CA	2.99	0.44
1:L:601:ASN:HB2	1:L:603:ILE:HD11	1.99	0.44
1:G:265:ASP:HA	1:G:295:THR:HG21	1.99	0.44
1:L:721:ILE:CG2	1:L:722:LYS:N	2.80	0.44
1:A:227:SER:O	1:A:230:SER:N	2.39	0.44
1:B:466:ASN:OD1	1:B:468:ARG:HB2	2.17	0.44
1:L:609:GLU:HG2	1:L:724:ILE:CD1	2.47	0.44
1:K:691:ASN:HB3	1:K:694:TYR:CE2	2.52	0.44
1:M:458:ASN:HD22	1:M:476:ASN:HD22	1.63	0.44
1:J:250:GLU:N	1:J:250:GLU:OE1	2.48	0.44
1:G:398:GLU:C	1:G:400:GLN:N	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:360:LEU:HD12	1:M:361:ASN:N	2.29	0.44
1:D:469:VAL:HG21	1:O:483:GLN:HE21	1.78	0.44
1:B:270:ILE:CG2	1:B:361:ASN:HB3	2.46	0.44
1:H:270:ILE:CG2	1:H:361:ASN:HB3	2.46	0.44
1:E:189:VAL:HG13	1:F:199:LYS:HG3	1.99	0.44
1:K:189:VAL:CG1	1:L:199:LYS:CG	2.95	0.44
1:K:596:PHE:N	1:K:596:PHE:CD1	2.84	0.44
1:C:232:PRO:O	1:C:233:TYR:CG	2.70	0.44
1:D:232:PRO:O	1:D:233:TYR:CG	2.70	0.44
1:O:187:LEU:O	1:O:192:TYR:HD2	2.00	0.44
1:M:601:ASN:HB2	1:M:603:ILE:HD11	1.99	0.44
1:D:265:ASP:HA	1:D:295:THR:HG21	1.99	0.44
1:J:466:ASN:OD1	1:J:468:ARG:HB2	2.17	0.44
1:L:466:ASN:OD1	1:L:468:ARG:HB2	2.17	0.44
1:K:273:LYS:N	1:K:350:MET:HE3	2.32	0.44
1:G:273:LYS:N	1:G:350:MET:HE3	2.32	0.44
1:D:377:VAL:CG1	1:D:398:GLU:HG3	2.41	0.44
1:C:398:GLU:C	1:C:400:GLN:N	2.69	0.44
1:L:365:ARG:HH11	1:L:414:LYS:HD3	1.82	0.44
1:A:200:ARG:N	1:A:200:ARG:CD	2.71	0.44
1:J:360:LEU:HD12	1:J:361:ASN:N	2.29	0.44
1:G:270:ILE:CG2	1:G:361:ASN:HB3	2.46	0.44
1:E:187:LEU:O	1:E:192:TYR:HD2	2.00	0.44
1:O:232:PRO:O	1:O:233:TYR:CG	2.70	0.44
1:A:232:PRO:O	1:A:233:TYR:CG	2.70	0.44
1:F:481:LEU:HA	1:F:484:ILE:HD13	1.99	0.44
1:D:266:MET:CA	1:D:364:ILE:HG22	2.47	0.44
1:D:217:THR:HG22	1:D:218:LYS:H	1.83	0.44
1:I:308:GLU:OE2	1:J:667:SER:HB3	2.17	0.44
1:K:358:ALA:O	1:K:434:MET:HB3	2.18	0.44
1:F:358:ALA:O	1:F:434:MET:HB3	2.18	0.44
1:M:608:ASP:O	1:M:612:VAL:HG23	2.17	0.44
1:C:608:ASP:O	1:C:612:VAL:HG23	2.17	0.44
1:E:377:VAL:CG1	1:E:398:GLU:HG3	2.41	0.44
1:H:271:LEU:CD1	1:H:289:ILE:HD11	2.36	0.44
1:E:221:SER:O	1:E:519:PRO:HG3	2.18	0.44
1:I:189:VAL:HG13	1:J:199:LYS:CG	2.47	0.44
1:F:596:PHE:N	1:F:596:PHE:CD1	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
1:B:481:LEU:HA	1:B:484:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:601:ASN:HB2	1:B:603:ILE:HD11	1.99	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
1:A:253:HIS:HE1	1:A:255:LEU:HG	1.83	0.44
1:O:609:GLU:HG2	1:O:724:ILE:CD1	2.47	0.44
1:B:358:ALA:O	1:B:434:MET:HB3	2.18	0.44
1:L:338:LEU:HD21	1:L:661:ASP:CG	2.37	0.44
1:A:410:TYR:CD1	1:A:410:TYR:N	2.85	0.44
1:M:270:ILE:CG2	1:M:361:ASN:HB3	2.46	0.44
1:D:245:LYS:H	1:O:483:GLN:HE22	1.66	0.44
1:G:221:SER:O	1:G:519:PRO:HG3	2.18	0.44
1:K:224:GLU:OE2	1:L:201:THR:OG1	2.36	0.44
1:I:221:SER:O	1:I:519:PRO:HG3	2.18	0.44
1:I:189:VAL:CG1	1:J:199:LYS:CG	2.96	0.44
1:M:200:ARG:N	1:M:200:ARG:CD	2.71	0.44
1:H:638:ILE:HG13	1:H:639:LEU:HD22	2.00	0.44
1:L:232:PRO:O	1:L:233:TYR:CG	2.71	0.44
1:A:221:SER:O	1:A:519:PRO:HG3	2.18	0.44
1:D:220:LYS:O	1:D:519:PRO:HG2	2.16	0.44
1:B:187:LEU:O	1:B:192:TYR:HD2	2.00	0.44
1:A:670:GLN:CD	1:F:305:GLY:HA2	2.38	0.44
1:E:266:MET:CA	1:E:364:ILE:HG22	2.47	0.44
1:H:265:ASP:HA	1:H:295:THR:HG21	1.99	0.44
1:F:657:ASN:HB2	1:F:662:MET:CB	2.44	0.44
1:C:206:TRP:HA	1:C:206:TRP:HE3	1.80	0.44
1:O:721:ILE:CG2	1:O:722:LYS:N	2.80	0.44
1:A:721:ILE:CG2	1:A:722:LYS:N	2.80	0.44
1:E:253:HIS:HE1	1:E:255:LEU:HG	1.83	0.44
1:C:253:HIS:HE1	1:C:255:LEU:HG	1.82	0.44
1:E:609:GLU:HG2	1:E:724:ILE:CD1	2.47	0.44
1:H:609:GLU:HG2	1:H:724:ILE:CD1	2.47	0.44
1:F:691:ASN:HB3	1:F:694:TYR:CE2	2.52	0.44
1:C:691:ASN:HB3	1:C:694:TYR:CE2	2.52	0.44
1:D:691:ASN:HB3	1:D:694:TYR:CE2	2.52	0.44
1:J:358:ALA:O	1:J:434:MET:HB3	2.18	0.44
1:L:358:ALA:O	1:L:434:MET:HB3	2.18	0.44
1:A:358:ALA:O	1:A:434:MET:HB3	2.18	0.44
1:G:358:ALA:O	1:G:434:MET:HB3	2.18	0.44
1:J:458:ASN:OD1	1:J:473:THR:HA	2.16	0.44
1:G:338:LEU:HD21	1:G:661:ASP:CG	2.37	0.44
1:O:273:LYS:N	1:O:350:MET:HE3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:ASP:O	1:F:180:ASN:HB3	2.17	0.44
1:O:365:ARG:HH11	1:O:414:LYS:HD3	1.81	0.44
1:L:483:GLN:NE2	1:M:245:LYS:H	2.16	0.44
1:M:638:ILE:HG13	1:M:639:LEU:HD22	2.00	0.44
1:I:638:ILE:HG13	1:I:639:LEU:HD22	2.00	0.44
1:B:232:PRO:O	1:B:233:TYR:CG	2.70	0.44
1:G:239:VAL:O	1:M:513:PRO:HG2	2.17	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
1:O:699:TYR:HD1	1:O:725:LEU:HA	1.83	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:L:253:HIS:HE1	1:L:255:LEU:HG	1.82	0.44
1:B:253:HIS:HE1	1:B:255:LEU:HG	1.82	0.44
1:O:691:ASN:HB3	1:O:694:TYR:CE2	2.52	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
1:E:358:ALA:O	1:E:434:MET:HB3	2.18	0.44
1:M:358:ALA:O	1:M:434:MET:HB3	2.18	0.44
1:D:483:GLN:NE2	1:E:245:LYS:H	2.16	0.44
1:L:608:ASP:O	1:L:612:VAL:HG23	2.17	0.44
1:I:608:ASP:O	1:I:612:VAL:HG23	2.17	0.44
1:H:410:TYR:N	1:H:410:TYR:CD1	2.85	0.44
1:A:318:GLY:HA2	1:B:410:TYR:HE1	1.79	0.44
1:O:360:LEU:HD12	1:O:361:ASN:N	2.29	0.44
1:D:196:VAL:HG21	1:O:516:THR:CG2	2.47	0.44
1:A:179:ASP:O	1:A:180:ASN:HB3	2.17	0.44
1:L:638:ILE:HG13	1:L:639:LEU:HD22	2.00	0.44
1:H:226:TRP:CG	1:I:466:ASN:HA	2.53	0.44
1:J:187:LEU:O	1:J:192:TYR:HD2	2.00	0.44
1:K:466:ASN:OD1	1:K:468:ARG:HB2	2.17	0.44
1:J:480:VAL:HG21	1:K:468:ARG:HG3	1.99	0.44
1:C:601:ASN:HB2	1:C:603:ILE:HD11	1.99	0.44
1:I:601:ASN:HB2	1:I:603:ILE:HD11	1.99	0.44
1:J:601:ASN:HB2	1:J:603:ILE:HD11	1.99	0.44
1:F:699:TYR:HD1	1:F:725:LEU:HA	1.83	0.44
1:B:721:ILE:CG2	1:B:722:LYS:N	2.80	0.44
1:H:217:THR:HG22	1:H:218:LYS:H	1.83	0.44
1:J:253:HIS:HE1	1:J:255:LEU:HG	1.82	0.44
1:I:253:HIS:HE1	1:I:255:LEU:HG	1.82	0.44
1:O:466:ASN:OD1	1:O:468:ARG:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:358:ALA:O	1:C:434:MET:HB3	2.18	0.44
1:A:483:GLN:NE2	1:B:245:LYS:H	2.16	0.44
1:K:638:ILE:HG13	1:K:639:LEU:HD22	2.00	0.44
1:M:232:PRO:O	1:M:233:TYR:CG	2.71	0.44
1:E:395:LYS:O	1:E:395:LYS:HG2	2.18	0.44
1:M:395:LYS:HG2	1:M:395:LYS:O	2.18	0.44
1:A:239:VAL:O	1:F:513:PRO:HG2	2.18	0.44
1:L:395:LYS:O	1:L:395:LYS:HG2	2.18	0.44
1:D:601:ASN:HB2	1:D:603:ILE:HD11	1.99	0.44
1:O:266:MET:CA	1:O:364:ILE:HG22	2.47	0.44
1:M:266:MET:CA	1:M:364:ILE:HG22	2.47	0.44
1:A:265:ASP:HA	1:A:295:THR:HG21	1.99	0.44
1:A:699:TYR:HD1	1:A:725:LEU:HA	1.83	0.44
1:I:699:TYR:HD1	1:I:725:LEU:HA	1.83	0.44
1:I:217:THR:HG22	1:I:218:LYS:H	1.83	0.44
1:K:253:HIS:HA	1:K:254:PRO:HD3	1.89	0.44
1:G:253:HIS:HE1	1:G:255:LEU:HG	1.83	0.44
1:O:608:ASP:O	1:O:612:VAL:HG23	2.17	0.44
1:B:512:ASP:OD1	1:C:245:LYS:HE3	2.18	0.44
1:A:365:ARG:HH11	1:A:414:LYS:HD3	1.82	0.44
1:O:179:ASP:O	1:O:180:ASN:HB3	2.17	0.44
1:F:360:LEU:HD12	1:F:361:ASN:N	2.29	0.44
1:E:183:ILE:HD13	1:E:192:TYR:CZ	2.53	0.44
1:E:224:GLU:OE2	1:F:201:THR:OG1	2.35	0.44
1:J:200:ARG:CD	1:J:200:ARG:N	2.71	0.44
1:C:638:ILE:HG13	1:C:639:LEU:HD22	2.00	0.44
1:C:481:LEU:N	1:C:482:PRO:CD	2.75	0.44
1:D:183:ILE:HD13	1:D:192:TYR:CZ	2.53	0.44
1:E:265:ASP:HA	1:E:295:THR:HG21	1.99	0.44
1:G:266:MET:CA	1:G:364:ILE:HG22	2.47	0.44
1:B:265:ASP:HA	1:B:295:THR:HG21	1.99	0.44
1:H:699:TYR:HD1	1:H:725:LEU:HA	1.83	0.44
1:L:335:ASP:OD1	1:L:337:SER:HB2	2.18	0.44
1:F:721:ILE:CG2	1:F:722:LYS:N	2.80	0.44
1:A:253:HIS:HA	1:A:254:PRO:HD3	1.89	0.44
1:E:217:THR:HG22	1:E:218:LYS:H	1.83	0.44
1:A:490:ARG:HB2	1:A:504:ARG:NH1	2.33	0.44
1:F:253:HIS:HA	1:F:254:PRO:HD3	1.88	0.44
1:J:609:GLU:HG2	1:J:724:ILE:CD1	2.47	0.44
1:D:470:ARG:HA	1:O:479:GLU:OE1	2.18	0.44
1:K:365:ARG:HH11	1:K:414:LYS:HD3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:ASN:ND2	1:F:325:SER:OG	2.51	0.43
1:G:638:ILE:HG13	1:G:639:LEU:HD22	2.00	0.43
1:I:232:PRO:O	1:I:233:TYR:CG	2.71	0.43
1:C:481:LEU:HA	1:C:484:ILE:HD13	1.99	0.43
1:H:232:PRO:O	1:H:233:TYR:CG	2.70	0.43
1:J:183:ILE:HD13	1:J:192:TYR:CZ	2.53	0.43
1:K:481:LEU:HA	1:K:484:ILE:HD13	1.99	0.43
1:H:183:ILE:HD13	1:H:192:TYR:CZ	2.53	0.43
1:O:183:ILE:HD13	1:O:192:TYR:CZ	2.53	0.43
1:A:187:LEU:HD23	1:A:205:PRO:HB3	2.00	0.43
1:E:601:ASN:HB2	1:E:603:ILE:HD11	1.99	0.43
1:C:265:ASP:HA	1:C:295:THR:HG21	1.99	0.43
1:B:226:TRP:CD2	1:C:466:ASN:HB2	2.53	0.43
1:E:699:TYR:HD1	1:E:725:LEU:HA	1.83	0.43
1:M:699:TYR:HD1	1:M:725:LEU:HA	1.83	0.43
1:F:335:ASP:OD1	1:F:337:SER:HB2	2.18	0.43
1:G:335:ASP:OD1	1:G:337:SER:HB2	2.18	0.43
1:J:721:ILE:CG2	1:J:722:LYS:N	2.80	0.43
1:M:721:ILE:CG2	1:M:722:LYS:N	2.80	0.43
1:K:721:ILE:CG2	1:K:722:LYS:N	2.80	0.43
1:B:217:THR:HG22	1:B:218:LYS:H	1.83	0.43
1:C:490:ARG:HB2	1:C:504:ARG:NH1	2.33	0.43
1:F:609:GLU:HG2	1:F:724:ILE:CD1	2.47	0.43
1:G:609:GLU:HG2	1:G:724:ILE:CD1	2.47	0.43
1:I:609:GLU:HG2	1:I:724:ILE:CD1	2.47	0.43
1:J:691:ASN:HB3	1:J:694:TYR:CE2	2.52	0.43
1:L:691:ASN:HB3	1:L:694:TYR:CE2	2.52	0.43
1:C:676:ILE:HG22	1:C:677:ASP:N	2.34	0.43
1:C:183:ILE:HD13	1:C:192:TYR:CZ	2.53	0.43
1:M:394:ILE:CG2	1:M:421:LEU:HD22	2.39	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:E:638:ILE:HG13	1:E:639:LEU:HD22	2.00	0.43
1:E:521:MET:HE1	1:E:525:GLU:CG	2.43	0.43
1:A:395:LYS:HG2	1:A:395:LYS:O	2.18	0.43
1:L:481:LEU:HA	1:L:484:ILE:HD13	1.99	0.43
1:D:395:LYS:O	1:D:395:LYS:HG2	2.18	0.43
1:K:232:PRO:O	1:K:233:TYR:CG	2.70	0.43
1:O:221:SER:O	1:O:519:PRO:HG3	2.18	0.43
1:M:221:SER:O	1:M:519:PRO:HG3	2.18	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:B:221:SER:O	1:B:519:PRO:HG3	2.18	0.43
1:J:699:TYR:HD1	1:J:725:LEU:HA	1.83	0.43
1:O:337:SER:CB	1:O:664:ASN:HB2	2.49	0.43
1:G:337:SER:CB	1:G:664:ASN:HB2	2.49	0.43
1:M:253:HIS:HE1	1:M:255:LEU:HG	1.83	0.43
1:D:253:HIS:HE1	1:D:255:LEU:HG	1.82	0.43
1:L:490:ARG:HB2	1:L:504:ARG:NH1	2.33	0.43
1:G:456:TYR:N	1:G:456:TYR:CD2	2.86	0.43
1:D:483:GLN:HE22	1:E:245:LYS:H	1.66	0.43
1:J:676:ILE:HG22	1:J:677:ASP:N	2.34	0.43
1:B:676:ILE:HG22	1:B:677:ASP:N	2.34	0.43
1:H:483:GLN:CG	1:I:469:VAL:HG21	2.47	0.43
1:D:410:TYR:CD1	1:D:410:TYR:N	2.85	0.43
1:G:483:GLN:HE22	1:H:245:LYS:N	2.15	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:J:607:ALA:H	1:J:638:ILE:CD1	2.21	0.43
1:L:221:SER:O	1:L:519:PRO:HG3	2.18	0.43
1:H:221:SER:O	1:H:519:PRO:HG3	2.18	0.43
1:J:481:LEU:HA	1:J:484:ILE:HD13	1.99	0.43
1:M:598:TYR:HA	1:M:605:VAL:HG23	2.00	0.43
1:B:183:ILE:HD13	1:B:192:TYR:CZ	2.53	0.43
1:F:598:TYR:HA	1:F:605:VAL:HG23	2.00	0.43
1:G:601:ASN:HB2	1:G:603:ILE:HD11	1.99	0.43
1:O:536:PRO:C	1:O:537:ASN:HD22	2.22	0.43
1:M:536:PRO:C	1:M:537:ASN:HD22	2.22	0.43
1:C:699:TYR:HD1	1:C:725:LEU:HA	1.83	0.43
1:D:699:TYR:HD1	1:D:725:LEU:HA	1.83	0.43
1:A:335:ASP:OD1	1:A:337:SER:HB2	2.18	0.43
1:L:337:SER:CB	1:L:664:ASN:HB2	2.49	0.43
1:E:337:SER:CB	1:E:664:ASN:HB2	2.49	0.43
1:A:217:THR:HG22	1:A:218:LYS:H	1.83	0.43
1:G:490:ARG:HB2	1:G:504:ARG:NH1	2.33	0.43
1:D:609:GLU:HG2	1:D:724:ILE:CD1	2.47	0.43
1:A:609:GLU:HG2	1:A:724:ILE:CD1	2.47	0.43
1:L:479:GLU:HG2	1:M:471:VAL:HG23	2.00	0.43
1:L:479:GLU:OE1	1:M:470:ARG:HG3	2.18	0.43
1:C:458:ASN:N	1:C:458:ASN:HD22	2.17	0.43
1:L:676:ILE:HG22	1:L:677:ASP:N	2.34	0.43
1:H:676:ILE:HG22	1:H:677:ASP:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:676:ILE:HG22	1:I:677:ASP:N	2.33	0.43
1:M:273:LYS:N	1:M:350:MET:HE3	2.33	0.43
1:G:365:ARG:HH11	1:G:414:LYS:HD3	1.81	0.43
1:C:221:SER:O	1:C:519:PRO:HG3	2.18	0.43
1:I:316:ILE:HD11	1:J:496:LYS:CB	2.40	0.43
1:F:221:SER:O	1:F:519:PRO:HG3	2.18	0.43
1:M:607:ALA:N	1:M:638:ILE:HD12	2.22	0.43
1:D:638:ILE:HG13	1:D:639:LEU:HD22	2.00	0.43
1:J:187:LEU:HD23	1:J:205:PRO:HB3	2.00	0.43
1:J:221:SER:O	1:J:519:PRO:HG3	2.18	0.43
1:K:395:LYS:O	1:K:395:LYS:HG2	2.18	0.43
1:A:598:TYR:HA	1:A:605:VAL:HG23	2.00	0.43
1:A:220:LYS:O	1:A:519:PRO:HG2	2.16	0.43
1:B:598:TYR:HA	1:B:605:VAL:HG23	2.00	0.43
1:F:601:ASN:HB2	1:F:603:ILE:HD11	1.99	0.43
1:K:266:MET:CA	1:K:364:ILE:HG22	2.47	0.43
1:L:536:PRO:C	1:L:537:ASN:HD22	2.22	0.43
1:C:536:PRO:C	1:C:537:ASN:HD22	2.22	0.43
1:B:699:TYR:HD1	1:B:725:LEU:HA	1.83	0.43
1:F:337:SER:CB	1:F:664:ASN:HB2	2.49	0.43
1:D:335:ASP:OD1	1:D:337:SER:HB2	2.18	0.43
1:M:337:SER:CB	1:M:664:ASN:HB2	2.49	0.43
1:H:335:ASP:OD1	1:H:337:SER:HB2	2.18	0.43
1:J:217:THR:HG22	1:J:218:LYS:H	1.83	0.43
1:M:490:ARG:HB2	1:M:504:ARG:NH1	2.33	0.43
1:K:490:ARG:HB2	1:K:504:ARG:NH1	2.33	0.43
1:B:609:GLU:HG2	1:B:724:ILE:CD1	2.47	0.43
1:L:578:LEU:C	1:L:580:LYS:H	2.22	0.43
1:H:358:ALA:O	1:H:434:MET:HB3	2.18	0.43
1:A:676:ILE:HG22	1:A:677:ASP:N	2.33	0.43
1:A:273:LYS:N	1:A:350:MET:HE3	2.34	0.43
1:D:360:LEU:HD12	1:D:361:ASN:N	2.29	0.43
1:E:360:LEU:HD12	1:E:361:ASN:N	2.29	0.43
1:G:521:MET:CE	1:G:521:MET:HA	2.37	0.43
1:K:221:SER:O	1:K:519:PRO:HG3	2.18	0.43
1:O:481:LEU:HA	1:O:484:ILE:HD13	1.99	0.43
1:G:232:PRO:O	1:G:233:TYR:CG	2.71	0.43
1:H:187:LEU:HD23	1:H:205:PRO:HB3	2.00	0.43
1:G:598:TYR:HA	1:G:605:VAL:HG23	2.00	0.43
1:J:479:GLU:CG	1:K:471:VAL:HG23	2.44	0.43
1:J:536:PRO:C	1:J:537:ASN:HD22	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:404:ILE:N	1:F:404:ILE:CD1	2.82	0.43
1:A:337:SER:CB	1:A:664:ASN:HB2	2.49	0.43
1:J:335:ASP:OD1	1:J:337:SER:HB2	2.18	0.43
1:K:337:SER:CB	1:K:664:ASN:HB2	2.49	0.43
1:L:227:SER:O	1:L:230:SER:N	2.39	0.43
1:K:578:LEU:C	1:K:580:LYS:H	2.22	0.43
1:O:456:TYR:CD2	1:O:456:TYR:N	2.87	0.43
1:L:458:ASN:HD22	1:L:458:ASN:N	2.17	0.43
1:F:398:GLU:O	1:F:400:GLN:N	2.52	0.43
1:O:398:GLU:O	1:O:400:GLN:N	2.52	0.43
1:I:398:GLU:O	1:I:400:GLN:N	2.52	0.43
1:B:394:ILE:CG2	1:B:421:LEU:HD22	2.39	0.43
1:B:365:ARG:HH11	1:B:414:LYS:HD3	1.82	0.43
1:E:423:ALA:O	1:E:424:GLN:HG2	2.17	0.43
1:M:423:ALA:O	1:M:424:GLN:HG2	2.17	0.43
1:G:183:ILE:HD13	1:G:192:TYR:CZ	2.53	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:481:LEU:HA	1:I:484:ILE:HD13	1.99	0.43
1:I:395:LYS:O	1:I:395:LYS:HG2	2.18	0.43
1:A:481:LEU:HA	1:A:484:ILE:HD13	1.99	0.43
1:F:232:PRO:O	1:F:233:TYR:CG	2.70	0.43
1:H:481:LEU:HA	1:H:484:ILE:HD13	1.99	0.43
1:M:187:LEU:HD23	1:M:205:PRO:HB3	2.00	0.43
1:C:598:TYR:HA	1:C:605:VAL:HG23	2.00	0.43
1:L:598:TYR:HA	1:L:605:VAL:HG23	2.00	0.43
1:L:266:MET:CA	1:L:364:ILE:HG22	2.47	0.43
1:C:266:MET:CA	1:C:364:ILE:HG22	2.47	0.43
1:A:404:ILE:N	1:A:404:ILE:CD1	2.82	0.43
1:I:335:ASP:OD1	1:I:337:SER:HB2	2.18	0.43
1:D:316:ILE:CD1	1:E:496:LYS:HB3	2.49	0.43
1:H:253:HIS:HE1	1:H:255:LEU:HG	1.83	0.43
1:F:217:THR:HG22	1:F:218:LYS:H	1.83	0.43
1:B:490:ARG:HB2	1:B:504:ARG:NH1	2.33	0.43
1:E:490:ARG:HB2	1:E:504:ARG:NH1	2.33	0.43
1:F:490:ARG:HB2	1:F:504:ARG:NH1	2.33	0.43
1:D:458:ASN:N	1:D:458:ASN:HD22	2.17	0.43
1:H:608:ASP:O	1:H:612:VAL:HG23	2.17	0.43
1:K:398:GLU:O	1:K:400:GLN:N	2.52	0.43
1:L:398:GLU:O	1:L:400:GLN:N	2.52	0.43
1:M:398:GLU:O	1:M:400:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:638:ILE:HG13	1:B:639:LEU:HD22	2.00	0.43
1:O:638:ILE:HG13	1:O:639:LEU:HD22	2.00	0.43
1:A:596:PHE:N	1:A:596:PHE:CD1	2.84	0.43
1:G:395:LYS:O	1:G:395:LYS:HG2	2.18	0.43
1:A:183:ILE:HD13	1:A:192:TYR:CZ	2.53	0.43
1:G:536:PRO:C	1:G:537:ASN:HD22	2.22	0.43
1:B:335:ASP:OD1	1:B:337:SER:HB2	2.18	0.43
1:O:335:ASP:OD1	1:O:337:SER:HB2	2.18	0.43
1:I:337:SER:CB	1:I:664:ASN:HB2	2.49	0.43
1:C:217:THR:HG22	1:C:218:LYS:H	1.83	0.43
1:O:217:THR:HG22	1:O:218:LYS:H	1.83	0.43
1:H:578:LEU:C	1:H:580:LYS:H	2.22	0.43
1:I:273:LYS:N	1:I:350:MET:HE3	2.33	0.43
1:D:676:ILE:HG22	1:D:677:ASP:N	2.33	0.43
1:E:273:LYS:N	1:E:350:MET:HE3	2.34	0.43
1:K:567:ALA:C	1:K:569:LEU:H	2.22	0.43
1:D:398:GLU:O	1:D:400:GLN:N	2.52	0.43
1:C:365:ARG:HH11	1:C:414:LYS:HD3	1.82	0.43
1:J:398:GLU:O	1:J:400:GLN:N	2.52	0.43
1:D:414:LYS:HE3	1:O:319:SER:N	2.34	0.43
1:O:395:LYS:O	1:O:395:LYS:HG2	2.18	0.43
1:C:395:LYS:O	1:C:395:LYS:HG2	2.18	0.43
1:G:481:LEU:HA	1:G:484:ILE:HD13	1.99	0.43
1:F:395:LYS:O	1:F:395:LYS:HG2	2.18	0.43
1:D:481:LEU:HA	1:D:484:ILE:HD13	1.99	0.43
1:D:187:LEU:HD23	1:D:205:PRO:HB3	2.00	0.43
1:B:187:LEU:HD23	1:B:205:PRO:HB3	2.00	0.43
1:D:536:PRO:C	1:D:537:ASN:HD22	2.22	0.43
1:H:536:PRO:C	1:H:537:ASN:HD22	2.22	0.43
1:O:404:ILE:N	1:O:404:ILE:CD1	2.82	0.43
1:C:335:ASP:OD1	1:C:337:SER:HB2	2.18	0.43
1:J:337:SER:CB	1:J:664:ASN:HB2	2.49	0.43
1:K:335:ASP:OD1	1:K:337:SER:HB2	2.18	0.43
1:M:217:THR:HG22	1:M:218:LYS:H	1.83	0.43
1:K:217:THR:HG22	1:K:218:LYS:H	1.83	0.43
1:C:609:GLU:HG2	1:C:724:ILE:CD1	2.47	0.43
1:O:358:ALA:O	1:O:434:MET:HB3	2.18	0.43
1:H:458:ASN:N	1:H:458:ASN:HD22	2.17	0.43
1:E:458:ASN:N	1:E:458:ASN:HD22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:ALA:C	1:B:569:LEU:H	2.22	0.43
1:C:567:ALA:C	1:C:569:LEU:H	2.22	0.43
1:H:483:GLN:HG3	1:I:469:VAL:CG2	2.48	0.43
1:C:398:GLU:O	1:C:400:GLN:N	2.52	0.43
1:L:410:TYR:CD1	1:L:410:TYR:N	2.85	0.43
1:L:483:GLN:HE21	1:M:469:VAL:HG21	1.79	0.43
1:I:596:PHE:CD1	1:I:596:PHE:N	2.84	0.43
1:J:638:ILE:HG13	1:J:639:LEU:HD22	2.00	0.43
1:M:234:SER:OG	1:M:237:GLU:HG3	2.19	0.43
1:B:395:LYS:HG2	1:B:395:LYS:O	2.18	0.43
1:A:315:ASP:OD1	1:B:497:ASP:OD1	2.37	0.43
1:K:404:ILE:N	1:K:404:ILE:CD1	2.82	0.43
1:L:699:TYR:HD1	1:L:725:LEU:HA	1.83	0.43
1:E:335:ASP:OD1	1:E:337:SER:HB2	2.18	0.43
1:O:253:HIS:HE1	1:O:255:LEU:HG	1.82	0.43
1:C:345:THR:O	1:C:346:TRP:C	2.58	0.43
1:J:578:LEU:C	1:J:580:LYS:H	2.22	0.43
1:E:456:TYR:N	1:E:456:TYR:CD2	2.86	0.43
1:D:358:ALA:O	1:D:434:MET:HB3	2.18	0.43
1:H:307:ALA:O	1:H:309:VAL:HG13	2.19	0.43
1:F:676:ILE:HG22	1:F:677:ASP:N	2.33	0.43
1:E:676:ILE:HG22	1:E:677:ASP:N	2.34	0.43
1:F:398:GLU:C	1:F:400:GLN:N	2.69	0.43
1:J:410:TYR:N	1:J:410:TYR:CD1	2.85	0.43
1:G:394:ILE:CG2	1:G:421:LEU:HD22	2.39	0.43
1:E:481:LEU:HA	1:E:484:ILE:HD13	1.99	0.43
1:L:183:ILE:HD13	1:L:192:TYR:CZ	2.53	0.43
1:D:598:TYR:HA	1:D:605:VAL:HG23	2.00	0.43
1:E:234:SER:OG	1:E:237:GLU:HG3	2.19	0.43
1:A:498:LEU:N	1:A:498:LEU:CD2	2.82	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:O:490:ARG:HB2	1:O:504:ARG:NH1	2.33	0.43
1:O:567:ALA:C	1:O:569:LEU:H	2.22	0.43
1:M:676:ILE:HG22	1:M:677:ASP:N	2.33	0.43
1:G:676:ILE:HG22	1:G:677:ASP:N	2.33	0.43
1:A:638:ILE:HG13	1:A:639:LEU:HD22	2.00	0.42
1:I:598:TYR:HA	1:I:605:VAL:HG23	2.00	0.42
1:C:234:SER:OG	1:C:237:GLU:HG3	2.19	0.42
1:H:266:MET:CA	1:H:364:ILE:HG22	2.47	0.42
1:B:337:SER:CB	1:B:664:ASN:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:490:ARG:HB2	1:H:504:ARG:NH1	2.33	0.42
1:L:345:THR:O	1:L:346:TRP:C	2.58	0.42
1:E:345:THR:O	1:E:346:TRP:C	2.58	0.42
1:O:458:ASN:HD22	1:O:458:ASN:N	2.17	0.42
1:A:456:TYR:N	1:A:456:TYR:CD2	2.87	0.42
1:K:456:TYR:CD2	1:K:456:TYR:N	2.87	0.42
1:F:702:THR:OG1	1:F:705:ASN:ND2	2.52	0.42
1:M:702:THR:OG1	1:M:705:ASN:ND2	2.52	0.42
1:H:702:THR:OG1	1:H:705:ASN:ND2	2.52	0.42
1:D:273:LYS:N	1:D:350:MET:HE3	2.34	0.42
1:A:398:GLU:O	1:A:400:GLN:N	2.52	0.42
1:H:515:GLU:OE1	1:I:245:LYS:HE2	2.19	0.42
1:H:394:ILE:CG2	1:H:421:LEU:HD22	2.39	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:L:198:ASN:HB2	1:L:200:ARG:CD	2.50	0.42
1:J:395:LYS:HG2	1:J:395:LYS:O	2.18	0.42
1:L:187:LEU:HD23	1:L:205:PRO:HB3	2.00	0.42
1:J:226:TRP:HB3	1:K:466:ASN:O	2.18	0.42
1:J:598:TYR:HA	1:J:605:VAL:HG23	2.00	0.42
1:E:598:TYR:HA	1:E:605:VAL:HG23	2.00	0.42
1:O:262:VAL:HG11	1:O:379:PRO:CG	2.48	0.42
1:O:234:SER:OG	1:O:237:GLU:HG3	2.19	0.42
1:M:335:ASP:OD1	1:M:337:SER:HB2	2.18	0.42
1:E:497:ASP:HB3	1:E:498:LEU:H	1.75	0.42
1:H:721:ILE:CG2	1:H:722:LYS:N	2.80	0.42
1:G:345:THR:O	1:G:346:TRP:C	2.58	0.42
1:A:578:LEU:C	1:A:580:LYS:H	2.22	0.42
1:O:578:LEU:C	1:O:580:LYS:H	2.22	0.42
1:F:458:ASN:HD22	1:F:458:ASN:N	2.17	0.42
1:J:702:THR:OG1	1:J:705:ASN:ND2	2.52	0.42
1:M:250:GLU:N	1:M:250:GLU:OE1	2.48	0.42
1:C:307:ALA:O	1:C:309:VAL:HG13	2.19	0.42
1:G:702:THR:OG1	1:G:705:ASN:ND2	2.52	0.42
1:E:567:ALA:C	1:E:569:LEU:H	2.22	0.42
1:G:316:ILE:C	1:G:318:GLY:H	2.23	0.42
1:F:512:ASP:OD1	1:F:515:GLU:HB2	2.20	0.42
1:K:187:LEU:HD23	1:K:205:PRO:HB3	2.00	0.42
1:K:198:ASN:HB2	1:K:200:ARG:CD	2.50	0.42
1:O:598:TYR:HA	1:O:605:VAL:HG23	2.00	0.42
1:L:234:SER:OG	1:L:237:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:536:PRO:C	1:B:537:ASN:HD22	2.22	0.42
1:D:337:SER:CB	1:D:664:ASN:HB2	2.49	0.42
1:J:490:ARG:HB2	1:J:504:ARG:NH1	2.33	0.42
1:M:456:TYR:N	1:M:456:TYR:CD2	2.87	0.42
1:J:293:THR:HG22	1:J:334:ILE:HA	2.02	0.42
1:A:567:ALA:C	1:A:569:LEU:H	2.22	0.42
1:J:273:LYS:N	1:J:350:MET:HE3	2.34	0.42
1:M:307:ALA:O	1:M:309:VAL:HG13	2.19	0.42
1:E:702:THR:OG1	1:E:705:ASN:ND2	2.52	0.42
1:I:293:THR:HG22	1:I:334:ILE:HA	2.02	0.42
1:C:187:LEU:HD23	1:C:205:PRO:HB3	2.00	0.42
1:C:512:ASP:OD1	1:C:515:GLU:HB2	2.20	0.42
1:E:398:GLU:O	1:E:400:GLN:N	2.52	0.42
1:F:394:ILE:CG2	1:F:421:LEU:HD22	2.39	0.42
1:K:243:ILE:HG12	1:K:244:ASP:H	1.80	0.42
1:B:512:ASP:OD1	1:B:515:GLU:HB2	2.20	0.42
1:C:198:ASN:HB2	1:C:200:ARG:CD	2.50	0.42
1:G:178:ARG:CZ	1:H:200:ARG:HB3	2.48	0.42
1:E:512:ASP:OD1	1:E:515:GLU:HB2	2.20	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:I:198:ASN:HB2	1:I:200:ARG:CD	2.50	0.42
1:M:183:ILE:HD13	1:M:192:TYR:CZ	2.53	0.42
1:F:298:THR:HG21	1:F:331:THR:OG1	2.20	0.42
1:D:298:THR:HG21	1:D:331:THR:OG1	2.20	0.42
1:F:234:SER:OG	1:F:237:GLU:HG3	2.19	0.42
1:G:310:HIS:HE2	1:G:319:SER:HG	1.65	0.42
1:M:498:LEU:N	1:M:498:LEU:CD2	2.82	0.42
1:E:536:PRO:C	1:E:537:ASN:HD22	2.22	0.42
1:C:337:SER:CB	1:C:664:ASN:HB2	2.49	0.42
1:C:498:LEU:N	1:C:498:LEU:CD2	2.82	0.42
1:H:337:SER:CB	1:H:664:ASN:HB2	2.49	0.42
1:E:498:LEU:N	1:E:498:LEU:CD2	2.82	0.42
1:K:253:HIS:HE1	1:K:255:LEU:HG	1.83	0.42
1:K:345:THR:O	1:K:346:TRP:C	2.58	0.42
1:I:490:ARG:HB2	1:I:504:ARG:NH1	2.33	0.42
1:M:345:THR:O	1:M:346:TRP:C	2.58	0.42
1:J:273:LYS:HG3	1:J:273:LYS:O	2.20	0.42
1:D:702:THR:OG1	1:D:705:ASN:ND2	2.52	0.42
1:A:702:THR:OG1	1:A:705:ASN:ND2	2.52	0.42
1:K:293:THR:HG22	1:K:334:ILE:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:567:ALA:C	1:L:569:LEU:H	2.22	0.42
1:F:567:ALA:C	1:F:569:LEU:H	2.22	0.42
1:M:413:SER:C	1:M:415:ASN:N	2.73	0.42
1:B:316:ILE:C	1:B:318:GLY:H	2.23	0.42
1:K:316:ILE:C	1:K:318:GLY:H	2.23	0.42
1:B:243:ILE:HG12	1:B:244:ASP:H	1.80	0.42
1:A:316:ILE:C	1:A:318:GLY:H	2.23	0.42
1:E:366:TYR:O	1:E:411:TYR:N	2.40	0.42
1:B:198:ASN:HB2	1:B:200:ARG:CD	2.50	0.42
1:F:198:ASN:HB2	1:F:200:ARG:CD	2.50	0.42
1:J:224:GLU:OE2	1:K:201:THR:HG23	2.20	0.42
1:H:395:LYS:HG2	1:H:395:LYS:O	2.18	0.42
1:O:298:THR:HG21	1:O:331:THR:OG1	2.20	0.42
1:K:234:SER:OG	1:K:237:GLU:HG3	2.19	0.42
1:F:536:PRO:C	1:F:537:ASN:HD22	2.22	0.42
1:L:498:LEU:N	1:L:498:LEU:CD2	2.82	0.42
1:C:658:ASP:O	1:C:717:SER:HA	2.20	0.42
1:L:456:TYR:N	1:L:456:TYR:CD2	2.87	0.42
1:F:273:LYS:O	1:F:273:LYS:HG3	2.20	0.42
1:L:307:ALA:O	1:L:309:VAL:HG13	2.19	0.42
1:K:250:GLU:N	1:K:250:GLU:OE1	2.48	0.42
1:L:273:LYS:N	1:L:350:MET:HE3	2.34	0.42
1:A:307:ALA:O	1:A:309:VAL:HG13	2.19	0.42
1:J:316:ILE:C	1:J:318:GLY:H	2.23	0.42
1:H:273:LYS:O	1:H:273:LYS:HG3	2.20	0.42
1:O:198:ASN:HB2	1:O:200:ARG:CD	2.50	0.42
1:L:316:ILE:C	1:L:318:GLY:H	2.23	0.42
1:H:512:ASP:OD1	1:H:515:GLU:HB2	2.20	0.42
1:G:665:ILE:HG13	1:G:666:SER:H	1.85	0.42
1:H:665:ILE:HG13	1:H:666:SER:H	1.85	0.42
1:E:410:TYR:N	1:E:410:TYR:CD1	2.85	0.42
1:O:316:ILE:C	1:O:318:GLY:H	2.23	0.42
1:E:187:LEU:HD23	1:E:205:PRO:HB3	2.00	0.42
1:I:512:ASP:OD1	1:I:515:GLU:HB2	2.20	0.42
1:J:198:ASN:HB2	1:J:200:ARG:CD	2.50	0.42
1:M:198:ASN:HB2	1:M:200:ARG:CD	2.50	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:E:380:THR:HG23	1:E:395:LYS:HD2	2.02	0.42
1:G:200:ARG:HB3	1:M:178:ARG:NH1	2.34	0.42
1:B:298:THR:HG21	1:B:331:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:598:TYR:HA	1:K:605:VAL:HG23	2.00	0.42
1:E:298:THR:HG21	1:E:331:THR:OG1	2.20	0.42
1:J:266:MET:CA	1:J:364:ILE:HG22	2.47	0.42
1:K:536:PRO:C	1:K:537:ASN:HD22	2.22	0.42
1:G:498:LEU:CD2	1:G:498:LEU:N	2.82	0.42
1:B:345:THR:O	1:B:346:TRP:C	2.58	0.42
1:E:578:LEU:C	1:E:580:LYS:H	2.22	0.42
1:I:578:LEU:C	1:I:580:LYS:H	2.22	0.42
1:G:458:ASN:HD22	1:G:458:ASN:N	2.17	0.42
1:D:456:TYR:N	1:D:456:TYR:CD2	2.87	0.42
1:O:273:LYS:HG3	1:O:273:LYS:O	2.20	0.42
1:A:273:LYS:O	1:A:273:LYS:HG3	2.20	0.42
1:C:273:LYS:N	1:C:350:MET:HE3	2.33	0.42
1:K:547:ILE:O	1:K:547:ILE:HG13	2.20	0.42
1:I:567:ALA:C	1:I:569:LEU:H	2.22	0.42
1:O:676:ILE:HG22	1:O:677:ASP:N	2.34	0.42
1:J:307:ALA:O	1:J:309:VAL:HG13	2.19	0.42
1:K:676:ILE:HG22	1:K:677:ASP:N	2.34	0.42
1:O:702:THR:OG1	1:O:705:ASN:ND2	2.52	0.42
1:I:702:THR:OG1	1:I:705:ASN:ND2	2.52	0.42
1:G:398:GLU:O	1:G:400:GLN:N	2.52	0.42
1:I:316:ILE:C	1:I:318:GLY:H	2.23	0.42
1:I:310:HIS:HE2	1:I:319:SER:HG	1.68	0.42
1:D:413:SER:C	1:D:415:ASN:N	2.73	0.42
1:A:366:TYR:O	1:A:411:TYR:N	2.40	0.42
1:H:198:ASN:HB2	1:H:200:ARG:CD	2.50	0.42
1:M:635:ILE:O	1:M:637:LYS:N	2.53	0.42
1:E:596:PHE:CD1	1:E:596:PHE:N	2.84	0.42
1:H:380:THR:HG23	1:H:395:LYS:HD2	2.02	0.42
1:O:187:LEU:HD23	1:O:205:PRO:HB3	2.00	0.42
1:H:305:GLY:HA2	1:I:670:GLN:CD	2.39	0.42
1:D:468:ARG:HG3	1:O:480:VAL:HG21	2.01	0.42
1:A:234:SER:OG	1:A:237:GLU:HG3	2.19	0.42
1:I:584:ASN:N	1:I:584:ASN:HD22	2.18	0.42
1:D:584:ASN:HD22	1:D:584:ASN:N	2.18	0.42
1:O:498:LEU:N	1:O:498:LEU:CD2	2.82	0.42
1:M:658:ASP:O	1:M:717:SER:HA	2.20	0.42
1:D:658:ASP:O	1:D:717:SER:HA	2.20	0.42
1:D:498:LEU:CD2	1:D:498:LEU:N	2.82	0.42
1:B:658:ASP:O	1:B:717:SER:HA	2.20	0.42
1:A:293:THR:HG22	1:A:334:ILE:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:263:HIS:CG	1:G:297:ARG:HG3	2.55	0.42
1:H:345:THR:O	1:H:346:TRP:C	2.58	0.42
1:D:578:LEU:C	1:D:580:LYS:H	2.22	0.42
1:I:456:TYR:N	1:I:456:TYR:CD2	2.87	0.42
1:L:273:LYS:O	1:L:273:LYS:HG3	2.20	0.42
1:M:316:ILE:C	1:M:318:GLY:H	2.23	0.42
1:C:547:ILE:HG13	1:C:547:ILE:O	2.20	0.42
1:L:702:THR:OG1	1:L:705:ASN:ND2	2.52	0.42
1:J:567:ALA:C	1:J:569:LEU:H	2.22	0.42
1:K:702:THR:OG1	1:K:705:ASN:ND2	2.52	0.42
1:M:293:THR:HG22	1:M:334:ILE:HA	2.02	0.42
1:D:567:ALA:C	1:D:569:LEU:H	2.22	0.42
1:O:307:ALA:O	1:O:309:VAL:HG13	2.19	0.42
1:C:189:VAL:HG11	1:O:199:LYS:HG2	2.01	0.42
1:H:398:GLU:O	1:H:400:GLN:N	2.52	0.42
1:E:665:ILE:HG13	1:E:666:SER:H	1.85	0.42
1:I:243:ILE:HG12	1:I:244:ASP:H	1.80	0.42
1:A:198:ASN:HB2	1:A:200:ARG:CD	2.50	0.42
1:O:413:SER:C	1:O:415:ASN:N	2.73	0.42
1:D:198:ASN:HB2	1:D:200:ARG:CD	2.50	0.42
1:G:512:ASP:OD1	1:G:515:GLU:HB2	2.20	0.42
1:K:221:SER:HB2	1:K:222:SER:H	1.76	0.42
1:C:635:ILE:O	1:C:637:LYS:N	2.53	0.42
1:G:380:THR:HG23	1:G:395:LYS:HD2	2.02	0.42
1:F:380:THR:HG23	1:F:395:LYS:HD2	2.02	0.42
1:F:242:ARG:HB3	1:F:462:TYR:CZ	2.55	0.42
1:F:481:LEU:N	1:F:482:PRO:CD	2.74	0.42
1:E:242:ARG:HB3	1:E:462:TYR:CZ	2.55	0.42
1:J:226:TRP:CB	1:K:466:ASN:O	2.67	0.42
1:C:298:THR:HG21	1:C:331:THR:OG1	2.20	0.42
1:I:298:THR:HG21	1:I:331:THR:OG1	2.20	0.42
1:H:305:GLY:CA	1:I:670:GLN:CG	2.93	0.42
1:K:584:ASN:HD22	1:K:584:ASN:N	2.18	0.42
1:A:536:PRO:C	1:A:537:ASN:HD22	2.22	0.42
1:I:404:ILE:N	1:I:404:ILE:CD1	2.82	0.42
1:B:404:ILE:N	1:B:404:ILE:CD1	2.82	0.42
1:H:658:ASP:O	1:H:717:SER:HA	2.20	0.42
1:L:658:ASP:O	1:L:717:SER:HA	2.20	0.42
1:I:658:ASP:O	1:I:717:SER:HA	2.20	0.42
1:A:263:HIS:CG	1:A:297:ARG:HG3	2.55	0.42
1:F:263:HIS:CG	1:F:297:ARG:HG3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:THR:O	1:A:346:TRP:C	2.58	0.42
1:B:578:LEU:C	1:B:580:LYS:H	2.22	0.42
1:F:578:LEU:C	1:F:580:LYS:H	2.22	0.42
1:K:458:ASN:N	1:K:458:ASN:HD22	2.17	0.42
1:I:627:LEU:HD11	1:I:727:PHE:CD2	2.55	0.42
1:O:293:THR:HG22	1:O:334:ILE:HA	2.02	0.42
1:A:547:ILE:HG13	1:A:547:ILE:O	2.20	0.42
1:L:293:THR:HG22	1:L:334:ILE:HA	2.02	0.42
1:E:627:LEU:HD11	1:E:727:PHE:CD2	2.55	0.42
1:M:627:LEU:HD11	1:M:727:PHE:CD2	2.55	0.42
1:K:307:ALA:O	1:K:309:VAL:HG13	2.19	0.42
1:M:366:TYR:O	1:M:411:TYR:N	2.40	0.42
1:B:665:ILE:HG13	1:B:666:SER:H	1.85	0.42
1:H:642:TYR:CD1	1:H:700:ALA:HA	2.55	0.42
1:I:642:TYR:CD1	1:I:700:ALA:HA	2.55	0.42
1:A:243:ILE:HG12	1:A:244:ASP:H	1.81	0.42
1:C:316:ILE:C	1:C:318:GLY:H	2.23	0.42
1:M:512:ASP:OD1	1:M:515:GLU:HB2	2.20	0.42
1:F:366:TYR:O	1:F:411:TYR:N	2.40	0.42
1:F:413:SER:C	1:F:415:ASN:N	2.73	0.42
1:E:635:ILE:O	1:E:637:LYS:N	2.53	0.42
1:H:242:ARG:HB3	1:H:462:TYR:CZ	2.55	0.42
1:A:635:ILE:O	1:A:637:LYS:N	2.53	0.42
1:A:242:ARG:HB3	1:A:462:TYR:CZ	2.55	0.42
1:K:242:ARG:HB3	1:K:462:TYR:CZ	2.55	0.42
1:H:480:VAL:CG2	1:I:468:ARG:HG3	2.49	0.42
1:J:226:TRP:HB2	1:K:466:ASN:C	2.40	0.42
1:B:234:SER:OG	1:B:237:GLU:HG3	2.19	0.42
1:H:584:ASN:HD22	1:H:584:ASN:N	2.18	0.42
1:D:234:SER:OG	1:D:237:GLU:HG3	2.19	0.42
1:F:207:ILE:O	1:F:211:HIS:HB2	2.20	0.42
1:D:207:ILE:O	1:D:211:HIS:HB2	2.20	0.42
1:I:498:LEU:N	1:I:498:LEU:CD2	2.82	0.42
1:E:658:ASP:O	1:E:717:SER:HA	2.20	0.42
1:C:293:THR:HG22	1:C:334:ILE:HA	2.02	0.42
1:D:490:ARG:HB2	1:D:504:ARG:NH1	2.33	0.42
1:D:263:HIS:CG	1:D:297:ARG:HG3	2.55	0.42
1:E:626:GLY:HA3	1:E:676:ILE:O	2.20	0.42
1:H:273:LYS:N	1:H:350:MET:HE3	2.35	0.42
1:K:626:GLY:HA3	1:K:676:ILE:O	2.20	0.42
1:G:293:THR:HG22	1:G:334:ILE:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:307:ALA:O	1:I:309:VAL:HG13	2.19	0.42
1:B:627:LEU:HD11	1:B:727:PHE:CD2	2.55	0.42
1:L:366:TYR:O	1:L:411:TYR:N	2.40	0.42
1:I:398:GLU:C	1:I:400:GLN:N	2.69	0.42
1:D:512:ASP:OD1	1:D:515:GLU:HB2	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:D:635:ILE:O	1:D:637:LYS:N	2.53	0.42
1:H:635:ILE:O	1:H:637:LYS:N	2.53	0.42
1:H:607:ALA:N	1:H:638:ILE:HD12	2.22	0.42
1:L:242:ARG:HB3	1:L:462:TYR:CZ	2.55	0.42
1:C:242:ARG:HB3	1:C:462:TYR:CZ	2.55	0.42
1:H:598:TYR:HA	1:H:605:VAL:HG23	2.01	0.42
1:K:380:THR:HB	1:K:453:ASP:OD1	2.20	0.42
1:J:481:LEU:N	1:J:482:PRO:CD	2.75	0.42
1:J:298:THR:HG21	1:J:331:THR:OG1	2.20	0.42
1:G:234:SER:OG	1:G:237:GLU:HG3	2.19	0.42
1:F:584:ASN:HD22	1:F:584:ASN:N	2.18	0.42
1:B:498:LEU:N	1:B:498:LEU:CD2	2.82	0.42
1:L:584:ASN:N	1:L:584:ASN:HD22	2.18	0.42
1:I:536:PRO:C	1:I:537:ASN:HD22	2.22	0.42
1:G:207:ILE:O	1:G:211:HIS:HB2	2.20	0.42
1:E:263:HIS:CG	1:E:297:ARG:HG3	2.55	0.42
1:M:578:LEU:C	1:M:580:LYS:H	2.22	0.42
1:G:578:LEU:C	1:G:580:LYS:H	2.22	0.42
1:G:567:ALA:C	1:G:569:LEU:H	2.22	0.42
1:L:547:ILE:O	1:L:547:ILE:HG13	2.20	0.42
1:F:627:LEU:HD11	1:F:727:PHE:CD2	2.55	0.42
1:F:642:TYR:CD1	1:F:700:ALA:HA	2.55	0.41
1:F:316:ILE:C	1:F:318:GLY:H	2.23	0.41
1:B:413:SER:C	1:B:415:ASN:N	2.73	0.41
1:I:242:ARG:HB3	1:I:462:TYR:CZ	2.55	0.41
1:E:515:GLU:OE1	1:F:245:LYS:HE2	2.20	0.41
1:K:512:ASP:OD1	1:K:515:GLU:HB2	2.20	0.41
1:L:512:ASP:OD1	1:L:515:GLU:HB2	2.20	0.41
1:M:636:ARG:CA	1:M:639:LEU:HD23	2.50	0.41
1:C:596:PHE:CD2	1:C:638:ILE:HD13	2.50	0.41
1:B:380:THR:HG23	1:B:395:LYS:HD2	2.02	0.41
1:C:380:THR:HB	1:C:453:ASP:OD1	2.20	0.41
1:O:231:ASP:OD1	1:O:258:ALA:HB3	2.20	0.41
1:M:380:THR:HG23	1:M:395:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:481:LEU:N	1:L:482:PRO:CD	2.75	0.41
1:H:234:SER:OG	1:H:237:GLU:HG3	2.19	0.41
1:D:231:ASP:OD1	1:D:258:ALA:HB3	2.20	0.41
1:J:231:ASP:OD1	1:J:258:ALA:HB3	2.20	0.41
1:G:584:ASN:H	1:G:587:MET:HE3	1.82	0.41
1:E:584:ASN:HD22	1:E:584:ASN:N	2.18	0.41
1:A:584:ASN:HD22	1:A:584:ASN:N	2.18	0.41
1:K:498:LEU:CD2	1:K:498:LEU:N	2.82	0.41
1:O:658:ASP:O	1:O:717:SER:HA	2.20	0.41
1:H:227:SER:O	1:H:230:SER:N	2.39	0.41
1:C:193:THR:HB	1:C:217:THR:O	2.20	0.41
1:I:263:HIS:CG	1:I:297:ARG:HG3	2.55	0.41
1:J:345:THR:O	1:J:346:TRP:C	2.58	0.41
1:H:456:TYR:N	1:H:456:TYR:CD2	2.87	0.41
1:B:456:TYR:N	1:B:456:TYR:CD2	2.86	0.41
1:J:456:TYR:CD2	1:J:456:TYR:N	2.87	0.41
1:D:483:GLN:NE2	1:E:469:VAL:HG21	2.35	0.41
1:M:273:LYS:O	1:M:273:LYS:HG3	2.20	0.41
1:H:567:ALA:C	1:H:569:LEU:H	2.22	0.41
1:G:307:ALA:O	1:G:309:VAL:HG13	2.19	0.41
1:B:702:THR:OG1	1:B:705:ASN:ND2	2.52	0.41
1:C:665:ILE:HG13	1:C:666:SER:H	1.85	0.41
1:L:642:TYR:CD1	1:L:700:ALA:HA	2.55	0.41
1:J:413:SER:C	1:J:415:ASN:N	2.73	0.41
1:F:394:ILE:HD13	1:F:421:LEU:CD2	2.50	0.41
1:G:423:ALA:O	1:G:424:GLN:HG2	2.17	0.41
1:D:636:ARG:CA	1:D:639:LEU:HD23	2.50	0.41
1:O:596:PHE:CD1	1:O:596:PHE:N	2.84	0.41
1:M:380:THR:HB	1:M:453:ASP:OD1	2.20	0.41
1:H:380:THR:HB	1:H:453:ASP:OD1	2.20	0.41
1:A:298:THR:HG21	1:A:331:THR:OG1	2.20	0.41
1:M:298:THR:HG21	1:M:331:THR:OG1	2.20	0.41
1:I:234:SER:OG	1:I:237:GLU:HG3	2.19	0.41
1:B:584:ASN:HD22	1:B:584:ASN:N	2.18	0.41
1:B:207:ILE:O	1:B:211:HIS:HB2	2.20	0.41
1:A:207:ILE:O	1:A:211:HIS:HB2	2.20	0.41
1:C:483:GLN:HE22	1:O:245:LYS:H	1.67	0.41
1:O:263:HIS:CG	1:O:297:ARG:HG3	2.55	0.41
1:H:263:HIS:CG	1:H:297:ARG:HG3	2.55	0.41
1:A:458:ASN:N	1:A:458:ASN:HD22	2.17	0.41
1:C:626:GLY:HA3	1:C:676:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:547:ILE:HG13	1:F:547:ILE:O	2.20	0.41
1:B:307:ALA:O	1:B:309:VAL:HG13	2.19	0.41
1:D:307:ALA:O	1:D:309:VAL:HG13	2.19	0.41
1:M:311:ALA:C	1:M:313:PHE:H	2.24	0.41
1:J:311:ALA:C	1:J:313:PHE:H	2.24	0.41
1:B:311:ALA:C	1:B:313:PHE:H	2.24	0.41
1:I:311:ALA:C	1:I:313:PHE:H	2.24	0.41
1:I:316:ILE:CD1	1:J:496:LYS:CD	2.91	0.41
1:I:665:ILE:HG13	1:I:666:SER:H	1.85	0.41
1:G:636:ARG:CA	1:G:639:LEU:HD23	2.50	0.41
1:J:635:ILE:O	1:J:637:LYS:N	2.53	0.41
1:J:242:ARG:HB3	1:J:462:TYR:CZ	2.55	0.41
1:A:380:THR:HB	1:A:453:ASP:OD1	2.20	0.41
1:I:231:ASP:OD1	1:I:258:ALA:HB3	2.20	0.41
1:C:231:ASP:OD1	1:C:258:ALA:HB3	2.20	0.41
1:H:521:MET:HE2	1:H:525:GLU:HB3	2.02	0.41
1:J:234:SER:OG	1:J:237:GLU:HG3	2.19	0.41
1:G:584:ASN:HD22	1:G:584:ASN:N	2.18	0.41
1:I:584:ASN:H	1:I:587:MET:HE1	1.83	0.41
1:I:497:ASP:C	1:I:498:LEU:HD22	2.41	0.41
1:L:497:ASP:C	1:L:498:LEU:HD22	2.41	0.41
1:F:498:LEU:CD2	1:F:498:LEU:N	2.82	0.41
1:G:658:ASP:O	1:G:717:SER:HA	2.20	0.41
1:O:497:ASP:C	1:O:498:LEU:HD22	2.41	0.41
1:A:658:ASP:O	1:A:717:SER:HA	2.20	0.41
1:M:227:SER:O	1:M:230:SER:N	2.39	0.41
1:I:658:ASP:C	1:I:718:THR:HG23	2.41	0.41
1:E:293:THR:HG22	1:E:334:ILE:HA	2.02	0.41
1:J:263:HIS:CG	1:J:297:ARG:HG3	2.55	0.41
1:I:458:ASN:N	1:I:458:ASN:HD22	2.17	0.41
1:M:458:ASN:HD22	1:M:458:ASN:N	2.17	0.41
1:I:273:LYS:O	1:I:273:LYS:HG3	2.20	0.41
1:E:273:LYS:HG3	1:E:273:LYS:O	2.20	0.41
1:D:547:ILE:O	1:D:547:ILE:HG13	2.20	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:H:293:THR:HG22	1:H:334:ILE:HA	2.02	0.41
1:H:413:SER:C	1:H:415:ASN:N	2.73	0.41
1:B:398:GLU:O	1:B:400:GLN:N	2.52	0.41
1:K:316:ILE:CD1	1:L:496:LYS:CD	2.93	0.41
1:A:642:TYR:CD1	1:A:700:ALA:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:642:TYR:CD1	1:K:700:ALA:HA	2.55	0.41
1:E:413:SER:C	1:E:415:ASN:N	2.73	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:E:231:ASP:OD1	1:E:258:ALA:HB3	2.20	0.41
1:B:259:TYR:HA	1:B:260:PRO:HD3	1.90	0.41
1:G:242:ARG:HB3	1:G:462:TYR:CZ	2.55	0.41
1:G:198:ASN:HB2	1:G:200:ARG:CD	2.50	0.41
1:M:242:ARG:HB3	1:M:462:TYR:CZ	2.55	0.41
1:H:305:GLY:C	1:I:670:GLN:HG3	2.41	0.41
1:A:262:VAL:HG11	1:A:379:PRO:CG	2.48	0.41
1:E:404:ILE:N	1:E:404:ILE:CD1	2.82	0.41
1:C:497:ASP:C	1:C:498:LEU:HD22	2.41	0.41
1:G:497:ASP:C	1:G:498:LEU:HD22	2.41	0.41
1:J:658:ASP:O	1:J:717:SER:HA	2.20	0.41
1:J:658:ASP:C	1:J:718:THR:HG23	2.41	0.41
1:F:658:ASP:O	1:F:717:SER:HA	2.20	0.41
1:D:316:ILE:C	1:D:318:GLY:H	2.23	0.41
1:B:658:ASP:C	1:B:718:THR:HG23	2.41	0.41
1:E:316:ILE:C	1:E:318:GLY:H	2.23	0.41
1:G:627:LEU:HD11	1:G:727:PHE:CD2	2.55	0.41
1:B:193:THR:HB	1:B:217:THR:O	2.20	0.41
1:C:578:LEU:C	1:C:580:LYS:H	2.22	0.41
1:G:626:GLY:HA3	1:G:676:ILE:O	2.20	0.41
1:E:547:ILE:O	1:E:547:ILE:HG13	2.20	0.41
1:J:665:ILE:HG13	1:J:666:SER:H	1.85	0.41
1:J:642:TYR:CD1	1:J:700:ALA:HA	2.55	0.41
1:G:642:TYR:CD1	1:G:700:ALA:HA	2.55	0.41
1:J:413:SER:O	1:J:416:LEU:N	2.54	0.41
1:G:394:ILE:HD13	1:G:421:LEU:CD2	2.51	0.41
1:A:496:LYS:HB3	1:F:316:ILE:HD11	1.95	0.41
1:O:311:ALA:C	1:O:313:PHE:H	2.24	0.41
1:A:413:SER:C	1:A:415:ASN:N	2.73	0.41
1:F:311:ALA:C	1:F:313:PHE:H	2.24	0.41
1:F:310:HIS:HE2	1:F:319:SER:HG	1.65	0.41
1:O:423:ALA:O	1:O:424:GLN:HG2	2.17	0.41
1:F:635:ILE:O	1:F:637:LYS:N	2.53	0.41
1:C:607:ALA:N	1:C:638:ILE:HD12	2.22	0.41
1:I:635:ILE:O	1:I:637:LYS:N	2.53	0.41
1:E:596:PHE:CD2	1:E:638:ILE:HD13	2.50	0.41
1:B:635:ILE:O	1:B:637:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:380:THR:HG23	1:J:395:LYS:HD2	2.02	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:A:380:THR:HG23	1:A:395:LYS:HD2	2.02	0.41
1:I:380:THR:HB	1:I:453:ASP:OD1	2.20	0.41
1:B:242:ARG:HB3	1:B:462:TYR:CZ	2.55	0.41
1:M:497:ASP:C	1:M:498:LEU:HD22	2.41	0.41
1:K:311:ALA:C	1:K:313:PHE:H	2.24	0.41
1:J:207:ILE:O	1:J:211:HIS:HB2	2.20	0.41
1:O:207:ILE:O	1:O:211:HIS:HB2	2.20	0.41
1:C:207:ILE:O	1:C:211:HIS:HB2	2.20	0.41
1:A:622:SER:HA	1:A:627:LEU:HD23	2.03	0.41
1:O:193:THR:HB	1:O:217:THR:O	2.20	0.41
1:G:217:THR:HG22	1:G:218:LYS:H	1.83	0.41
1:B:263:HIS:CG	1:B:297:ARG:HG3	2.55	0.41
1:M:263:HIS:CG	1:M:297:ARG:HG3	2.55	0.41
1:O:345:THR:O	1:O:346:TRP:C	2.58	0.41
1:A:626:GLY:HA3	1:A:676:ILE:O	2.20	0.41
1:F:626:GLY:HA3	1:F:676:ILE:O	2.20	0.41
1:C:273:LYS:O	1:C:273:LYS:HG3	2.20	0.41
1:O:622:SER:HA	1:O:627:LEU:HD23	2.03	0.41
1:H:547:ILE:HG13	1:H:547:ILE:O	2.20	0.41
1:H:627:LEU:HD11	1:H:727:PHE:CD2	2.55	0.41
1:E:307:ALA:O	1:E:309:VAL:HG13	2.19	0.41
1:H:316:ILE:C	1:H:318:GLY:H	2.23	0.41
1:C:413:SER:O	1:C:416:LEU:N	2.54	0.41
1:B:642:TYR:CD1	1:B:700:ALA:HA	2.55	0.41
1:E:642:TYR:CD1	1:E:700:ALA:HA	2.55	0.41
1:A:200:ARG:CB	1:F:178:ARG:NH2	2.83	0.41
1:A:413:SER:O	1:A:416:LEU:N	2.54	0.41
1:L:635:ILE:O	1:L:637:LYS:N	2.53	0.41
1:M:231:ASP:OD1	1:M:258:ALA:HB3	2.20	0.41
1:L:380:THR:HB	1:L:453:ASP:OD1	2.20	0.41
1:D:242:ARG:HB3	1:D:462:TYR:CZ	2.55	0.41
1:G:298:THR:HG21	1:G:331:THR:OG1	2.20	0.41
1:K:262:VAL:HG11	1:K:379:PRO:CG	2.48	0.41
1:L:534:ASN:ND2	1:L:536:PRO:HG3	2.36	0.41
1:E:207:ILE:O	1:E:211:HIS:HB2	2.20	0.41
1:H:207:ILE:O	1:H:211:HIS:HB2	2.20	0.41
1:I:207:ILE:O	1:I:211:HIS:HB2	2.20	0.41
1:A:627:LEU:HD11	1:A:727:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:193:THR:HB	1:H:217:THR:O	2.21	0.41
1:J:458:ASN:N	1:J:458:ASN:HD22	2.17	0.41
1:B:273:LYS:O	1:B:273:LYS:HG3	2.20	0.41
1:K:273:LYS:HG3	1:K:273:LYS:O	2.20	0.41
1:B:626:GLY:HA3	1:B:676:ILE:O	2.20	0.41
1:M:626:GLY:HA3	1:M:676:ILE:O	2.20	0.41
1:J:627:LEU:HD11	1:J:727:PHE:CD2	2.55	0.41
1:D:175:VAL:HA	1:D:176:PRO:HD3	1.94	0.41
1:L:319:SER:HA	1:M:414:LYS:CG	2.49	0.41
1:A:394:ILE:CG2	1:A:421:LEU:HD22	2.39	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:E:311:ALA:C	1:E:313:PHE:H	2.24	0.41
1:F:365:ARG:HH11	1:F:414:LYS:HD3	1.82	0.41
1:O:512:ASP:OD1	1:O:515:GLU:HB2	2.20	0.41
1:I:289:ILE:O	1:I:289:ILE:HG13	2.21	0.41
1:H:289:ILE:O	1:H:289:ILE:HG13	2.21	0.41
1:M:200:ARG:HD2	1:M:200:ARG:H	1.84	0.41
1:D:607:ALA:N	1:D:638:ILE:HD12	2.22	0.41
1:G:468:ARG:HG3	1:M:480:VAL:HG21	2.00	0.41
1:O:635:ILE:O	1:O:637:LYS:N	2.53	0.41
1:C:380:THR:HG23	1:C:395:LYS:HD2	2.02	0.41
1:E:380:THR:HB	1:E:453:ASP:OD1	2.20	0.41
1:O:242:ARG:HB3	1:O:462:TYR:CZ	2.55	0.41
1:B:231:ASP:OD1	1:B:258:ALA:HB3	2.20	0.41
1:K:231:ASP:OD1	1:K:258:ALA:HB3	2.20	0.41
1:L:315:ASP:OD1	1:M:497:ASP:CG	2.59	0.41
1:J:584:ASN:N	1:J:584:ASN:HD22	2.18	0.41
1:D:534:ASN:ND2	1:D:536:PRO:HG3	2.36	0.41
1:G:534:ASN:ND2	1:G:536:PRO:HG3	2.36	0.41
1:H:404:ILE:N	1:H:404:ILE:CD1	2.82	0.41
1:E:497:ASP:C	1:E:498:LEU:HD22	2.41	0.41
1:J:193:THR:HB	1:J:217:THR:O	2.21	0.41
1:I:193:THR:HB	1:I:217:THR:O	2.21	0.41
1:G:193:THR:HB	1:G:217:THR:O	2.21	0.41
1:L:263:HIS:CG	1:L:297:ARG:HG3	2.55	0.41
1:I:345:THR:O	1:I:346:TRP:C	2.58	0.41
1:I:626:GLY:HA3	1:I:676:ILE:O	2.20	0.41
1:D:626:GLY:HA3	1:D:676:ILE:O	2.20	0.41
1:D:273:LYS:HG3	1:D:273:LYS:O	2.20	0.41
1:O:626:GLY:HA3	1:O:676:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:622:SER:HA	1:B:627:LEU:HD23	2.03	0.41
1:F:307:ALA:O	1:F:309:VAL:HG13	2.19	0.41
1:G:413:SER:C	1:G:415:ASN:N	2.73	0.41
1:I:413:SER:C	1:I:415:ASN:N	2.73	0.41
1:I:413:SER:O	1:I:416:LEU:N	2.54	0.41
1:K:413:SER:C	1:K:415:ASN:N	2.73	0.41
1:H:413:SER:O	1:H:416:LEU:N	2.54	0.41
1:C:413:SER:C	1:C:415:ASN:N	2.73	0.41
1:A:394:ILE:HD13	1:A:421:LEU:CD2	2.51	0.41
1:E:394:ILE:HD13	1:E:421:LEU:CD2	2.50	0.41
1:H:394:ILE:HD13	1:H:421:LEU:CD2	2.50	0.41
1:A:195:ASP:CG	1:A:196:VAL:N	2.74	0.41
1:E:413:SER:O	1:E:416:LEU:N	2.54	0.41
1:F:413:SER:O	1:F:416:LEU:N	2.54	0.41
1:F:195:ASP:CG	1:F:196:VAL:N	2.75	0.41
1:J:512:ASP:OD1	1:J:515:GLU:HB2	2.20	0.41
1:B:523:LEU:O	1:B:527:LEU:HD13	2.21	0.41
1:M:195:ASP:CG	1:M:196:VAL:N	2.74	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
1:E:523:LEU:O	1:E:526:ALA:HB3	2.21	0.41
1:A:231:ASP:OD1	1:A:258:ALA:HB3	2.20	0.41
1:K:195:ASP:CG	1:K:196:VAL:N	2.74	0.41
1:K:484:ILE:CD1	1:K:484:ILE:N	2.84	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:M:584:ASN:N	1:M:584:ASN:HD22	2.18	0.41
1:C:584:ASN:N	1:C:584:ASN:HD22	2.18	0.41
1:M:534:ASN:ND2	1:M:536:PRO:HG3	2.36	0.41
1:A:311:ALA:C	1:A:313:PHE:H	2.24	0.41
1:K:207:ILE:O	1:K:211:HIS:HB2	2.20	0.41
1:D:497:ASP:C	1:D:498:LEU:HD22	2.41	0.41
1:K:658:ASP:C	1:K:718:THR:HG23	2.41	0.41
1:E:193:THR:HB	1:E:217:THR:O	2.21	0.41
1:B:458:ASN:HD22	1:B:458:ASN:N	2.17	0.41
1:D:305:GLY:HA2	1:E:670:GLN:NE2	2.35	0.41
1:E:622:SER:HA	1:E:627:LEU:HD23	2.03	0.41
1:O:683:ASP:O	1:O:685:LEU:HG	2.21	0.41
1:O:627:LEU:HD11	1:O:727:PHE:CD2	2.55	0.41
1:F:683:ASP:O	1:F:685:LEU:HG	2.21	0.41
1:C:702:THR:OG1	1:C:705:ASN:ND2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:567:ALA:C	1:M:569:LEU:H	2.22	0.41
1:D:622:SER:HA	1:D:627:LEU:HD23	2.03	0.41
1:G:413:SER:O	1:G:416:LEU:N	2.54	0.41
1:L:413:SER:O	1:L:416:LEU:N	2.54	0.41
1:D:642:TYR:CD1	1:D:700:ALA:HA	2.55	0.41
1:F:665:ILE:HG13	1:F:666:SER:H	1.85	0.41
1:L:665:ILE:HG13	1:L:666:SER:H	1.85	0.41
1:O:665:ILE:HG13	1:O:666:SER:H	1.85	0.41
1:D:394:ILE:HD13	1:D:421:LEU:CD2	2.51	0.41
1:C:394:ILE:HD13	1:C:421:LEU:CD2	2.51	0.41
1:M:394:ILE:HD13	1:M:421:LEU:CD2	2.51	0.41
1:D:310:HIS:HE2	1:D:319:SER:HG	1.69	0.41
1:D:413:SER:O	1:D:416:LEU:N	2.54	0.41
1:F:289:ILE:O	1:F:289:ILE:HG13	2.21	0.41
1:F:423:ALA:C	1:F:424:GLN:CG	2.86	0.41
1:H:195:ASP:CG	1:H:196:VAL:N	2.74	0.41
1:G:524:LYS:O	1:G:525:GLU:C	2.59	0.41
1:K:524:LYS:O	1:K:525:GLU:C	2.60	0.41
1:L:607:ALA:H	1:L:638:ILE:CD1	2.20	0.41
1:F:523:LEU:O	1:F:526:ALA:HB3	2.21	0.41
1:F:523:LEU:O	1:F:527:LEU:HD13	2.21	0.41
1:D:523:LEU:O	1:D:527:LEU:HD13	2.21	0.41
1:E:636:ARG:CA	1:E:639:LEU:HD23	2.50	0.41
1:G:380:THR:HB	1:G:453:ASP:OD1	2.20	0.41
1:I:380:THR:HG23	1:I:395:LYS:HD2	2.02	0.41
1:D:380:THR:HB	1:D:453:ASP:OD1	2.20	0.41
1:L:380:THR:HG23	1:L:395:LYS:HD2	2.02	0.41
1:G:195:ASP:CG	1:G:196:VAL:N	2.75	0.41
1:O:592:ARG:HD2	1:O:598:TYR:CE2	2.56	0.41
1:H:592:ARG:HD2	1:H:598:TYR:CE2	2.56	0.41
1:K:380:THR:HG23	1:K:395:LYS:HD2	2.02	0.41
1:B:592:ARG:HD2	1:B:598:TYR:CE2	2.56	0.41
1:L:513:PRO:HB2	1:M:240:THR:O	2.21	0.41
1:M:592:ARG:HD2	1:M:598:TYR:CE2	2.56	0.41
1:C:592:ARG:HD2	1:C:598:TYR:CE2	2.56	0.41
1:L:298:THR:HG21	1:L:331:THR:OG1	2.20	0.41
1:D:592:ARG:HD2	1:D:598:TYR:CE2	2.56	0.41
1:B:480:VAL:HG21	1:C:468:ARG:HH11	1.85	0.41
1:O:584:ASN:HD22	1:O:584:ASN:N	2.18	0.41
1:E:534:ASN:ND2	1:E:536:PRO:HG3	2.36	0.41
1:I:266:MET:CA	1:I:364:ILE:HG22	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:266:MET:CA	1:B:364:ILE:HG22	2.47	0.41
1:C:534:ASN:ND2	1:C:536:PRO:HG3	2.36	0.41
1:C:311:ALA:C	1:C:313:PHE:H	2.24	0.41
1:F:497:ASP:C	1:F:498:LEU:HD22	2.41	0.41
1:A:497:ASP:C	1:A:498:LEU:HD22	2.41	0.41
1:G:658:ASP:C	1:G:718:THR:HG23	2.41	0.41
1:O:658:ASP:C	1:O:718:THR:HG23	2.41	0.41
1:J:497:ASP:C	1:J:498:LEU:HD22	2.41	0.41
1:H:658:ASP:C	1:H:718:THR:HG23	2.41	0.41
1:K:658:ASP:O	1:K:717:SER:HA	2.20	0.41
1:B:293:THR:HG22	1:B:334:ILE:HA	2.02	0.41
1:D:193:THR:HB	1:D:217:THR:O	2.21	0.41
1:K:193:THR:HB	1:K:217:THR:O	2.21	0.41
1:C:263:HIS:CG	1:C:297:ARG:HG3	2.55	0.41
1:F:193:THR:HB	1:F:217:THR:O	2.20	0.41
1:K:263:HIS:CG	1:K:297:ARG:HG3	2.55	0.41
1:F:456:TYR:N	1:F:456:TYR:CD2	2.87	0.41
1:G:273:LYS:O	1:G:273:LYS:HG3	2.20	0.41
1:D:683:ASP:O	1:D:685:LEU:HG	2.21	0.41
1:B:683:ASP:O	1:B:685:LEU:HG	2.21	0.41
1:I:683:ASP:O	1:I:685:LEU:HG	2.21	0.41
1:J:683:ASP:O	1:J:685:LEU:HG	2.21	0.41
1:K:622:SER:HA	1:K:627:LEU:HD23	2.03	0.41
1:J:622:SER:HA	1:J:627:LEU:HD23	2.03	0.41
1:D:627:LEU:HD11	1:D:727:PHE:CD2	2.55	0.41
1:K:683:ASP:O	1:K:685:LEU:HG	2.21	0.41
1:C:627:LEU:HD11	1:C:727:PHE:CD2	2.55	0.41
1:A:437:ASN:N	1:A:437:ASN:HD22	2.19	0.41
1:I:547:ILE:O	1:I:547:ILE:HG13	2.20	0.41
1:D:293:THR:HG22	1:D:334:ILE:HA	2.02	0.41
1:O:437:ASN:HD22	1:O:437:ASN:N	2.19	0.41
1:E:353:ASN:O	1:E:354:THR:C	2.60	0.41
1:E:565:GLN:OE1	1:E:581:ILE:HA	2.21	0.41
1:H:175:VAL:HA	1:H:176:PRO:HD3	1.94	0.41
1:K:413:SER:O	1:K:416:LEU:N	2.54	0.41
1:I:305:GLY:HA3	1:J:670:GLN:NE2	2.30	0.41
1:K:289:ILE:O	1:K:289:ILE:HG13	2.21	0.41
1:D:423:ALA:O	1:D:424:GLN:HG2	2.17	0.41
1:J:289:ILE:O	1:J:289:ILE:HG13	2.21	0.41
1:L:195:ASP:CG	1:L:196:VAL:N	2.75	0.41
1:J:515:GLU:OE1	1:K:245:LYS:HE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:LYS:O	1:A:525:GLU:C	2.59	0.41
1:M:523:LEU:O	1:M:527:LEU:HD13	2.21	0.41
1:G:635:ILE:O	1:G:637:LYS:N	2.53	0.41
1:I:523:LEU:O	1:I:526:ALA:HB3	2.21	0.41
1:H:231:ASP:OD1	1:H:258:ALA:HB3	2.20	0.41
1:B:497:ASP:C	1:B:498:LEU:HD22	2.41	0.41
1:H:497:ASP:C	1:H:498:LEU:HD22	2.41	0.41
1:G:622:SER:HA	1:G:627:LEU:HD23	2.03	0.41
1:D:345:THR:O	1:D:346:TRP:C	2.58	0.41
1:G:670:GLN:HA	1:M:314:PHE:CZ	2.55	0.41
1:C:456:TYR:CD2	1:C:456:TYR:N	2.87	0.41
1:L:626:GLY:HA3	1:L:676:ILE:O	2.20	0.41
1:O:353:ASN:O	1:O:354:THR:C	2.60	0.41
1:B:565:GLN:OE1	1:B:581:ILE:HA	2.21	0.41
1:F:293:THR:HG22	1:F:334:ILE:HA	2.01	0.41
1:M:413:SER:O	1:M:416:LEU:N	2.54	0.40
1:B:318:GLY:HA2	1:C:410:TYR:CE1	2.56	0.40
1:D:670:GLN:HG2	1:O:305:GLY:HA2	1.92	0.40
1:H:200:ARG:HD2	1:H:200:ARG:H	1.84	0.40
1:B:195:ASP:CG	1:B:196:VAL:N	2.74	0.40
1:H:360:LEU:HD12	1:H:361:ASN:N	2.29	0.40
1:O:524:LYS:O	1:O:525:GLU:C	2.59	0.40
1:A:523:LEU:O	1:A:527:LEU:HD13	2.21	0.40
1:G:596:PHE:CD2	1:G:638:ILE:HD13	2.50	0.40
1:E:523:LEU:O	1:E:527:LEU:HD13	2.21	0.40
1:L:524:LYS:O	1:L:525:GLU:C	2.59	0.40
1:M:524:LYS:O	1:M:525:GLU:C	2.59	0.40
1:B:636:ARG:CA	1:B:639:LEU:HD23	2.50	0.40
1:E:524:LYS:O	1:E:525:GLU:C	2.59	0.40
1:O:259:TYR:HA	1:O:260:PRO:HD3	1.90	0.40
1:F:380:THR:HB	1:F:453:ASP:OD1	2.20	0.40
1:H:524:LYS:O	1:H:525:GLU:C	2.59	0.40
1:F:592:ARG:HD2	1:F:598:TYR:CE2	2.56	0.40
1:K:592:ARG:HD2	1:K:598:TYR:CE2	2.56	0.40
1:G:592:ARG:HD2	1:G:598:TYR:CE2	2.56	0.40
1:D:262:VAL:HG11	1:D:379:PRO:CG	2.48	0.40
1:G:311:ALA:C	1:G:313:PHE:H	2.24	0.40
1:H:584:ASN:H	1:H:587:MET:HE3	1.84	0.40
1:D:658:ASP:C	1:D:718:THR:HG23	2.41	0.40
1:L:658:ASP:C	1:L:718:THR:HG23	2.41	0.40
1:J:626:GLY:HA3	1:J:676:ILE:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:ARG:O	1:E:350:MET:HG2	2.22	0.40
1:L:683:ASP:O	1:L:685:LEU:HG	2.21	0.40
1:I:383:LEU:HD23	1:I:383:LEU:C	2.42	0.40
1:G:547:ILE:HG13	1:G:547:ILE:O	2.20	0.40
1:G:314:PHE:CZ	1:H:672:GLY:HA2	2.57	0.40
1:M:310:HIS:HE2	1:M:319:SER:HG	1.65	0.40
1:M:665:ILE:HG13	1:M:666:SER:H	1.85	0.40
1:M:642:TYR:CD1	1:M:700:ALA:HA	2.55	0.40
1:E:310:HIS:HE2	1:E:319:SER:HG	1.66	0.40
1:D:366:TYR:O	1:D:411:TYR:N	2.40	0.40
1:A:414:LYS:HE3	1:F:319:SER:H	1.86	0.40
1:M:289:ILE:HG13	1:M:289:ILE:O	2.21	0.40
1:O:523:LEU:O	1:O:527:LEU:HD13	2.21	0.40
1:E:484:ILE:N	1:E:484:ILE:CD1	2.84	0.40
1:D:380:THR:HG23	1:D:395:LYS:HD2	2.02	0.40
1:F:266:MET:CA	1:F:364:ILE:HG22	2.47	0.40
1:H:534:ASN:ND2	1:H:536:PRO:HG3	2.36	0.40
1:M:207:ILE:O	1:M:211:HIS:HB2	2.20	0.40
1:L:497:ASP:HB3	1:L:498:LEU:H	1.75	0.40
1:A:658:ASP:C	1:A:718:THR:HG23	2.41	0.40
1:L:193:THR:HB	1:L:217:THR:O	2.21	0.40
1:C:683:ASP:O	1:C:685:LEU:HG	2.21	0.40
1:F:622:SER:HA	1:F:627:LEU:HD23	2.03	0.40
1:I:353:ASN:O	1:I:354:THR:C	2.60	0.40
1:A:565:GLN:OE1	1:A:581:ILE:HA	2.21	0.40
1:J:353:ASN:O	1:J:354:THR:C	2.60	0.40
1:C:437:ASN:N	1:C:437:ASN:HD22	2.19	0.40
1:A:383:LEU:C	1:A:383:LEU:HD23	2.42	0.40
1:K:353:ASN:O	1:K:354:THR:C	2.60	0.40
1:E:175:VAL:HA	1:E:176:PRO:HD3	1.94	0.40
1:F:353:ASN:O	1:F:354:THR:C	2.60	0.40
1:H:311:ALA:C	1:H:313:PHE:H	2.24	0.40
1:K:665:ILE:HG13	1:K:666:SER:H	1.85	0.40
1:O:243:ILE:HG12	1:O:244:ASP:H	1.80	0.40
1:A:245:LYS:HE2	1:F:515:GLU:OE1	2.20	0.40
1:F:524:LYS:O	1:F:525:GLU:C	2.59	0.40
1:D:271:LEU:HD23	1:D:360:LEU:HD13	2.04	0.40
1:E:289:ILE:HG13	1:E:289:ILE:O	2.21	0.40
1:M:271:LEU:HD21	1:M:360:LEU:HD13	2.04	0.40
1:I:188:GLU:HA	1:I:192:TYR:HE2	1.86	0.40
1:D:524:LYS:O	1:D:525:GLU:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:523:LEU:O	1:L:526:ALA:HB3	2.21	0.40
1:A:523:LEU:O	1:A:526:ALA:HB3	2.21	0.40
1:H:523:LEU:O	1:H:527:LEU:HD13	2.21	0.40
1:K:523:LEU:O	1:K:527:LEU:HD13	2.21	0.40
1:J:380:THR:HB	1:J:453:ASP:OD1	2.20	0.40
1:G:231:ASP:OD1	1:G:258:ALA:HB3	2.20	0.40
1:L:260:PRO:HG3	1:L:372:ALA:CB	2.51	0.40
1:F:231:ASP:OD1	1:F:258:ALA:HB3	2.20	0.40
1:H:260:PRO:HG3	1:H:372:ALA:CB	2.51	0.40
1:A:592:ARG:HD2	1:A:598:TYR:CE2	2.56	0.40
1:C:497:ASP:HB3	1:C:498:LEU:H	1.75	0.40
1:J:498:LEU:N	1:J:498:LEU:CD2	2.82	0.40
1:C:658:ASP:C	1:C:718:THR:HG23	2.41	0.40
1:C:269:ILE:HD11	1:C:334:ILE:HD13	2.04	0.40
1:A:269:ILE:HD11	1:A:334:ILE:HD13	2.04	0.40
1:B:269:ILE:HD11	1:B:334:ILE:HD13	2.04	0.40
1:O:287:ARG:O	1:O:350:MET:HG2	2.22	0.40
1:E:683:ASP:O	1:E:685:LEU:HG	2.21	0.40
1:C:711:SER:O	1:C:713:ASN:N	2.55	0.40
1:I:175:VAL:HA	1:I:176:PRO:HD3	1.94	0.40
1:G:565:GLN:OE1	1:G:581:ILE:HA	2.21	0.40
1:E:437:ASN:HD22	1:E:437:ASN:N	2.19	0.40
1:C:383:LEU:HD23	1:C:383:LEU:C	2.42	0.40
1:E:383:LEU:C	1:E:383:LEU:HD23	2.42	0.40
1:M:547:ILE:HG13	1:M:547:ILE:O	2.20	0.40
1:M:711:SER:O	1:M:713:ASN:N	2.55	0.40
1:A:353:ASN:O	1:A:354:THR:C	2.60	0.40
1:K:305:GLY:HA3	1:L:670:GLN:HE21	1.73	0.40
1:L:413:SER:C	1:L:415:ASN:N	2.73	0.40
1:E:381:THR:HG23	1:E:394:ILE:CG1	2.34	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:K:394:ILE:HD13	1:K:421:LEU:CD2	2.51	0.40
1:D:195:ASP:CG	1:D:196:VAL:N	2.74	0.40
1:B:423:ALA:O	1:B:424:GLN:HG2	2.17	0.40
1:E:224:GLU:OE2	1:F:201:THR:CB	2.69	0.40
1:B:523:LEU:O	1:B:526:ALA:HB3	2.21	0.40
1:C:523:LEU:O	1:C:527:LEU:HD13	2.21	0.40
1:H:523:LEU:O	1:H:526:ALA:HB3	2.21	0.40
1:M:481:LEU:N	1:M:482:PRO:CD	2.75	0.40
1:L:231:ASP:OD1	1:L:258:ALA:HB3	2.20	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:H:584:ASN:H	1:H:587:MET:HE1	1.86	0.40
1:A:534:ASN:ND2	1:A:536:PRO:HG3	2.36	0.40
1:K:534:ASN:ND2	1:K:536:PRO:HG3	2.36	0.40
1:J:404:ILE:CD1	1:J:404:ILE:N	2.82	0.40
1:L:207:ILE:O	1:L:211:HIS:HB2	2.20	0.40
1:E:658:ASP:C	1:E:718:THR:HG23	2.41	0.40
1:A:627:LEU:HB3	1:A:629:LEU:HD11	2.04	0.40
1:G:627:LEU:HB3	1:G:629:LEU:HD11	2.04	0.40
1:E:269:ILE:HD11	1:E:334:ILE:HD13	2.04	0.40
1:C:483:GLN:HE22	1:O:245:LYS:N	2.20	0.40
1:L:338:LEU:HG	1:L:661:ASP:HB2	2.04	0.40
1:H:626:GLY:HA3	1:H:676:ILE:O	2.20	0.40
1:D:287:ARG:O	1:D:350:MET:HG2	2.22	0.40
1:F:627:LEU:HG	1:F:678:PHE:HZ	1.87	0.40
1:J:547:ILE:O	1:J:547:ILE:HG13	2.20	0.40
1:I:437:ASN:HD22	1:I:437:ASN:N	2.19	0.40
1:O:547:ILE:HG13	1:O:547:ILE:O	2.20	0.40
1:J:565:GLN:OE1	1:J:581:ILE:HA	2.21	0.40
1:D:565:GLN:OE1	1:D:581:ILE:HA	2.21	0.40
1:C:565:GLN:OE1	1:C:581:ILE:HA	2.21	0.40
1:F:711:SER:O	1:F:713:ASN:N	2.55	0.40
1:G:353:ASN:O	1:G:354:THR:C	2.60	0.40
1:L:311:ALA:C	1:L:313:PHE:H	2.24	0.40
1:C:642:TYR:CE2	1:C:666:SER:HB3	2.57	0.40
1:O:642:TYR:CE2	1:O:666:SER:HB3	2.57	0.40
1:C:195:ASP:CG	1:C:196:VAL:N	2.74	0.40
1:L:271:LEU:HD23	1:L:360:LEU:HD13	2.04	0.40
1:I:524:LYS:O	1:I:525:GLU:C	2.59	0.40
1:G:271:LEU:HD21	1:G:360:LEU:HD13	2.04	0.40
1:K:521:MET:HA	1:K:521:MET:CE	2.36	0.40
1:M:523:LEU:O	1:M:526:ALA:HB3	2.21	0.40
1:M:260:PRO:HG3	1:M:372:ALA:CB	2.51	0.40
1:B:380:THR:HB	1:B:453:ASP:OD1	2.20	0.40
1:L:592:ARG:HD2	1:L:598:TYR:CE2	2.56	0.40
1:E:592:ARG:HD2	1:E:598:TYR:CE2	2.56	0.40
1:M:658:ASP:C	1:M:718:THR:HG23	2.41	0.40
1:F:658:ASP:C	1:F:718:THR:HG23	2.41	0.40
1:A:193:THR:HB	1:A:217:THR:O	2.20	0.40
1:D:471:VAL:HG23	1:O:479:GLU:HG2	2.04	0.40
1:G:683:ASP:O	1:G:685:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:627:LEU:HG	1:K:678:PHE:HZ	1.87	0.40
1:M:565:GLN:OE1	1:M:581:ILE:HA	2.21	0.40
1:J:711:SER:O	1:J:713:ASN:N	2.55	0.40
1:M:383:LEU:C	1:M:383:LEU:HD23	2.42	0.40
1:I:565:GLN:OE1	1:I:581:ILE:HA	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
1:F:570:ASN:CB	1:G:197:LYS:NZ[1_544]	2.11	0.09
2:e:1079:ARG:NH1	2:k:1041:ARG:NH2[1_445]	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	22
1	B	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	C	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	22
1	D	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	E	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	F	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	22
1	G	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	H	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	I	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	J	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	K	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	L	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
1	M	546/562 (97%)	373 (68%)	133 (24%)	40 (7%)	1	22
1	O	546/562 (97%)	374 (68%)	132 (24%)	40 (7%)	1	22
2	a	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	b	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	c	179/181 (99%)	143 (80%)	30 (17%)	6 (3%)	5	42
2	d	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	e	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	f	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	g	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	h	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	i	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	j	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	k	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	l	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	m	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
2	o	179/181 (99%)	144 (80%)	29 (16%)	6 (3%)	5	42
All	All	10150/10402 (98%)	7248 (71%)	2258 (22%)	644 (6%)	2	26

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 ⓘ

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

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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	B	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	C	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	D	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	E	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	F	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	G	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	H	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	I	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	J	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	K	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	L	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	M	491/501 (98%)	476 (97%)	15 (3%)	47	78
1	O	491/501 (98%)	476 (97%)	15 (3%)	47	78
2	a	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	b	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	c	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	d	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	e	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	f	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	g	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	h	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	i	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	j	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	k	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	l	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	m	152/152 (100%)	151 (99%)	1 (1%)	88	94
2	o	152/152 (100%)	151 (99%)	1 (1%)	88	94
All	All	9002/9142 (98%)	8778 (98%)	224 (2%)	55	82

All (224) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	200	ARG
1	A	206	TRP
1	A	243	ILE
1	A	259	TYR
1	A	324	PHE
1	A	365	ARG
1	A	373	PRO
1	A	397	LYS
1	A	403	GLN
1	A	419	ILE
1	A	451	ASP
1	A	464	PHE
1	A	515	GLU
1	A	596	PHE
1	A	723	LYS
2	a	1041	ARG
1	B	200	ARG
1	B	206	TRP
1	B	243	ILE
1	B	259	TYR
1	B	324	PHE
1	B	365	ARG
1	B	373	PRO
1	B	397	LYS
1	B	403	GLN
1	B	419	ILE
1	B	451	ASP
1	B	464	PHE
1	B	515	GLU
1	B	596	PHE
1	B	723	LYS
2	b	1041	ARG
1	C	200	ARG
1	C	206	TRP
1	C	243	ILE
1	C	259	TYR
1	C	324	PHE
1	C	365	ARG
1	C	373	PRO
1	C	397	LYS
1	C	403	GLN
1	C	419	ILE
1	C	451	ASP

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Mol	Chain	Res	Type
1	C	464	PHE
1	C	515	GLU
1	C	596	PHE
1	C	723	LYS
2	c	1041	ARG
1	D	200	ARG
1	D	206	TRP
1	D	243	ILE
1	D	259	TYR
1	D	324	PHE
1	D	365	ARG
1	D	373	PRO
1	D	397	LYS
1	D	403	GLN
1	D	419	ILE
1	D	451	ASP
1	D	464	PHE
1	D	515	GLU
1	D	596	PHE
1	D	723	LYS
2	d	1041	ARG
1	E	200	ARG
1	E	206	TRP
1	E	243	ILE
1	E	259	TYR
1	E	324	PHE
1	E	365	ARG
1	E	373	PRO
1	E	397	LYS
1	E	403	GLN
1	E	419	ILE
1	E	451	ASP
1	E	464	PHE
1	E	515	GLU
1	E	596	PHE
1	E	723	LYS
2	e	1041	ARG
1	F	200	ARG
1	F	206	TRP
1	F	243	ILE
1	F	259	TYR
1	F	324	PHE

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Mol	Chain	Res	Type
1	F	365	ARG
1	F	373	PRO
1	F	397	LYS
1	F	403	GLN
1	F	419	ILE
1	F	451	ASP
1	F	464	PHE
1	F	515	GLU
1	F	596	PHE
1	F	723	LYS
2	f	1041	ARG
1	G	200	ARG
1	G	206	TRP
1	G	243	ILE
1	G	259	TYR
1	G	324	PHE
1	G	365	ARG
1	G	373	PRO
1	G	397	LYS
1	G	403	GLN
1	G	419	ILE
1	G	451	ASP
1	G	464	PHE
1	G	515	GLU
1	G	596	PHE
1	G	723	LYS
2	g	1041	ARG
1	H	200	ARG
1	H	206	TRP
1	H	243	ILE
1	H	259	TYR
1	H	324	PHE
1	H	365	ARG
1	H	373	PRO
1	H	397	LYS
1	H	403	GLN
1	H	419	ILE
1	H	451	ASP
1	H	464	PHE
1	H	515	GLU
1	H	596	PHE
1	H	723	LYS

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Mol	Chain	Res	Type
2	h	1041	ARG
1	I	200	ARG
1	I	206	TRP
1	I	243	ILE
1	I	259	TYR
1	I	324	PHE
1	I	365	ARG
1	I	373	PRO
1	I	397	LYS
1	I	403	GLN
1	I	419	ILE
1	I	451	ASP
1	I	464	PHE
1	I	515	GLU
1	I	596	PHE
1	I	723	LYS
2	i	1041	ARG
1	J	200	ARG
1	J	206	TRP
1	J	243	ILE
1	J	259	TYR
1	J	324	PHE
1	J	365	ARG
1	J	373	PRO
1	J	397	LYS
1	J	403	GLN
1	J	419	ILE
1	J	451	ASP
1	J	464	PHE
1	J	515	GLU
1	J	596	PHE
1	J	723	LYS
2	j	1041	ARG
1	K	200	ARG
1	K	206	TRP
1	K	243	ILE
1	K	259	TYR
1	K	324	PHE
1	K	365	ARG
1	K	373	PRO
1	K	397	LYS
1	K	403	GLN

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Mol	Chain	Res	Type
1	K	419	ILE
1	K	451	ASP
1	K	464	PHE
1	K	515	GLU
1	K	596	PHE
1	K	723	LYS
2	k	1041	ARG
1	L	200	ARG
1	L	206	TRP
1	L	243	ILE
1	L	259	TYR
1	L	324	PHE
1	L	365	ARG
1	L	373	PRO
1	L	397	LYS
1	L	403	GLN
1	L	419	ILE
1	L	451	ASP
1	L	464	PHE
1	L	515	GLU
1	L	596	PHE
1	L	723	LYS
2	l	1041	ARG
1	M	200	ARG
1	M	206	TRP
1	M	243	ILE
1	M	259	TYR
1	M	324	PHE
1	M	365	ARG
1	M	373	PRO
1	M	397	LYS
1	M	403	GLN
1	M	419	ILE
1	M	451	ASP
1	M	464	PHE
1	M	515	GLU
1	M	596	PHE
1	M	723	LYS
2	m	1041	ARG
1	O	200	ARG
1	O	206	TRP
1	O	243	ILE

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Mol	Chain	Res	Type
1	O	259	TYR
1	O	324	PHE
1	O	365	ARG
1	O	373	PRO
1	O	397	LYS
1	O	403	GLN
1	O	419	ILE
1	O	451	ASP
1	O	464	PHE
1	O	515	GLU
1	O	596	PHE
1	O	723	LYS
2	o	1041	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (376) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	211	HIS
1	A	361	ASN
1	A	368	ASN
1	A	400	GLN
1	A	403	GLN
1	A	415	ASN
1	A	422	ASN
1	A	437	ASN
1	A	447	GLN
1	A	458	ASN
1	A	485	GLN
1	A	537	ASN
1	A	539	ASN
1	A	543	GLN
1	A	561	ASN
1	A	584	ASN
1	A	588	ASN
1	A	670	GLN
1	A	697	ASN
2	a	1057	ASN
2	a	1064	ASN
2	a	1068	GLN
2	a	1088	GLN
2	a	1183	GLN
2	a	1185	GLN

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Mol	Chain	Res	Type
2	a	1204	GLN
2	a	1211	ASN
1	B	211	HIS
1	B	361	ASN
1	B	368	ASN
1	B	400	GLN
1	B	403	GLN
1	B	415	ASN
1	B	422	ASN
1	B	437	ASN
1	B	447	GLN
1	B	458	ASN
1	B	485	GLN
1	B	537	ASN
1	B	539	ASN
1	B	543	GLN
1	B	561	ASN
1	B	584	ASN
1	B	588	ASN
1	B	670	GLN
1	B	697	ASN
2	b	1057	ASN
2	b	1064	ASN
2	b	1068	GLN
2	b	1088	GLN
2	b	1183	GLN
2	b	1185	GLN
2	b	1204	GLN
2	b	1211	ASN
1	C	211	HIS
1	C	361	ASN
1	C	368	ASN
1	C	400	GLN
1	C	403	GLN
1	C	415	ASN
1	C	422	ASN
1	C	437	ASN
1	C	447	GLN
1	C	458	ASN
1	C	483	GLN
1	C	485	GLN
1	C	537	ASN

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Mol	Chain	Res	Type
1	C	539	ASN
1	C	543	GLN
1	C	561	ASN
1	C	584	ASN
1	C	588	ASN
1	C	697	ASN
2	c	1057	ASN
2	c	1064	ASN
2	c	1068	GLN
2	c	1088	GLN
2	c	1183	GLN
2	c	1185	GLN
2	c	1204	GLN
2	c	1211	ASN
1	D	211	HIS
1	D	361	ASN
1	D	368	ASN
1	D	400	GLN
1	D	403	GLN
1	D	415	ASN
1	D	422	ASN
1	D	437	ASN
1	D	447	GLN
1	D	458	ASN
1	D	485	GLN
1	D	537	ASN
1	D	539	ASN
1	D	543	GLN
1	D	561	ASN
1	D	584	ASN
1	D	588	ASN
1	D	670	GLN
1	D	697	ASN
2	d	1057	ASN
2	d	1064	ASN
2	d	1068	GLN
2	d	1088	GLN
2	d	1183	GLN
2	d	1185	GLN
2	d	1204	GLN
2	d	1211	ASN
1	E	211	HIS

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Mol	Chain	Res	Type
1	E	361	ASN
1	E	368	ASN
1	E	400	GLN
1	E	403	GLN
1	E	415	ASN
1	E	422	ASN
1	E	437	ASN
1	E	447	GLN
1	E	458	ASN
1	E	483	GLN
1	E	485	GLN
1	E	537	ASN
1	E	539	ASN
1	E	543	GLN
1	E	561	ASN
1	E	584	ASN
1	E	588	ASN
1	E	670	GLN
1	E	697	ASN
2	e	1057	ASN
2	e	1064	ASN
2	e	1068	GLN
2	e	1088	GLN
2	e	1183	GLN
2	e	1185	GLN
2	e	1204	GLN
2	e	1211	ASN
1	F	211	HIS
1	F	361	ASN
1	F	368	ASN
1	F	400	GLN
1	F	403	GLN
1	F	415	ASN
1	F	422	ASN
1	F	437	ASN
1	F	447	GLN
1	F	458	ASN
1	F	485	GLN
1	F	537	ASN
1	F	539	ASN
1	F	543	GLN
1	F	561	ASN

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Mol	Chain	Res	Type
1	F	584	ASN
1	F	588	ASN
1	F	697	ASN
2	f	1057	ASN
2	f	1064	ASN
2	f	1068	GLN
2	f	1088	GLN
2	f	1183	GLN
2	f	1185	GLN
2	f	1204	GLN
2	f	1211	ASN
1	G	211	HIS
1	G	361	ASN
1	G	368	ASN
1	G	400	GLN
1	G	403	GLN
1	G	415	ASN
1	G	422	ASN
1	G	437	ASN
1	G	447	GLN
1	G	458	ASN
1	G	483	GLN
1	G	485	GLN
1	G	537	ASN
1	G	539	ASN
1	G	543	GLN
1	G	561	ASN
1	G	584	ASN
1	G	588	ASN
1	G	697	ASN
2	g	1057	ASN
2	g	1064	ASN
2	g	1068	GLN
2	g	1088	GLN
2	g	1183	GLN
2	g	1185	GLN
2	g	1204	GLN
2	g	1211	ASN
1	H	211	HIS
1	H	361	ASN
1	H	368	ASN
1	H	400	GLN

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Mol	Chain	Res	Type
1	H	403	GLN
1	H	415	ASN
1	H	422	ASN
1	H	437	ASN
1	H	447	GLN
1	H	458	ASN
1	H	485	GLN
1	H	537	ASN
1	H	539	ASN
1	H	543	GLN
1	H	561	ASN
1	H	584	ASN
1	H	588	ASN
1	H	670	GLN
1	H	697	ASN
2	h	1057	ASN
2	h	1064	ASN
2	h	1068	GLN
2	h	1088	GLN
2	h	1183	GLN
2	h	1185	GLN
2	h	1204	GLN
2	h	1211	ASN
1	I	211	HIS
1	I	361	ASN
1	I	368	ASN
1	I	400	GLN
1	I	403	GLN
1	I	415	ASN
1	I	422	ASN
1	I	437	ASN
1	I	447	GLN
1	I	458	ASN
1	I	485	GLN
1	I	537	ASN
1	I	539	ASN
1	I	543	GLN
1	I	561	ASN
1	I	584	ASN
1	I	588	ASN
1	I	697	ASN
2	i	1057	ASN

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Mol	Chain	Res	Type
2	i	1064	ASN
2	i	1068	GLN
2	i	1088	GLN
2	i	1183	GLN
2	i	1185	GLN
2	i	1204	GLN
2	i	1211	ASN
1	J	211	HIS
1	J	361	ASN
1	J	368	ASN
1	J	400	GLN
1	J	403	GLN
1	J	415	ASN
1	J	422	ASN
1	J	437	ASN
1	J	447	GLN
1	J	458	ASN
1	J	485	GLN
1	J	537	ASN
1	J	539	ASN
1	J	543	GLN
1	J	561	ASN
1	J	584	ASN
1	J	588	ASN
1	J	670	GLN
1	J	697	ASN
2	j	1057	ASN
2	j	1064	ASN
2	j	1068	GLN
2	j	1088	GLN
2	j	1183	GLN
2	j	1185	GLN
2	j	1204	GLN
2	j	1211	ASN
1	K	211	HIS
1	K	361	ASN
1	K	368	ASN
1	K	400	GLN
1	K	403	GLN
1	K	415	ASN
1	K	422	ASN
1	K	437	ASN

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Mol	Chain	Res	Type
1	K	447	GLN
1	K	458	ASN
1	K	485	GLN
1	K	537	ASN
1	K	539	ASN
1	K	543	GLN
1	K	561	ASN
1	K	584	ASN
1	K	588	ASN
1	K	697	ASN
2	k	1057	ASN
2	k	1064	ASN
2	k	1068	GLN
2	k	1088	GLN
2	k	1183	GLN
2	k	1185	GLN
2	k	1204	GLN
2	k	1211	ASN
1	L	211	HIS
1	L	361	ASN
1	L	368	ASN
1	L	400	GLN
1	L	403	GLN
1	L	415	ASN
1	L	422	ASN
1	L	437	ASN
1	L	447	GLN
1	L	458	ASN
1	L	485	GLN
1	L	537	ASN
1	L	539	ASN
1	L	543	GLN
1	L	561	ASN
1	L	584	ASN
1	L	588	ASN
1	L	670	GLN
1	L	697	ASN
2	l	1057	ASN
2	l	1064	ASN
2	l	1068	GLN
2	l	1088	GLN
2	l	1183	GLN

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Mol	Chain	Res	Type
2	l	1185	GLN
2	l	1204	GLN
2	l	1211	ASN
1	M	211	HIS
1	M	361	ASN
1	M	368	ASN
1	M	400	GLN
1	M	403	GLN
1	M	415	ASN
1	M	422	ASN
1	M	437	ASN
1	M	447	GLN
1	M	458	ASN
1	M	485	GLN
1	M	537	ASN
1	M	539	ASN
1	M	543	GLN
1	M	561	ASN
1	M	584	ASN
1	M	588	ASN
1	M	670	GLN
1	M	697	ASN
2	m	1057	ASN
2	m	1064	ASN
2	m	1068	GLN
2	m	1088	GLN
2	m	1183	GLN
2	m	1185	GLN
2	m	1204	GLN
2	m	1211	ASN
1	O	211	HIS
1	O	361	ASN
1	O	368	ASN
1	O	400	GLN
1	O	403	GLN
1	O	415	ASN
1	O	422	ASN
1	O	437	ASN
1	O	447	GLN
1	O	458	ASN
1	O	485	GLN
1	O	537	ASN

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Mol	Chain	Res	Type
1	O	539	ASN
1	O	543	GLN
1	O	561	ASN
1	O	584	ASN
1	O	588	ASN
1	O	670	GLN
1	O	697	ASN
2	o	1057	ASN
2	o	1064	ASN
2	o	1068	GLN
2	o	1088	GLN
2	o	1183	GLN
2	o	1185	GLN
2	o	1204	GLN
2	o	1211	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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(Å ²)	Q<0.9
1	A	552/562 (98%)	-0.02	13 (2%) 62 52	1, 36, 166, 200	0
1	B	552/562 (98%)	-0.00	22 (3%) 42 33	1, 36, 166, 200	0
1	C	552/562 (98%)	0.15	24 (4%) 39 30	1, 36, 166, 200	0
1	D	552/562 (98%)	-0.04	8 (1%) 78 69	1, 36, 166, 200	0
1	E	552/562 (98%)	-0.01	14 (2%) 61 50	1, 36, 166, 200	0
1	F	552/562 (98%)	0.09	13 (2%) 62 52	1, 36, 166, 200	0
1	G	552/562 (98%)	0.09	23 (4%) 40 31	1, 36, 166, 200	0
1	H	552/562 (98%)	0.04	20 (3%) 46 37	1, 36, 166, 200	0
1	I	552/562 (98%)	-0.04	10 (1%) 71 62	1, 36, 166, 200	0
1	J	552/562 (98%)	-0.02	14 (2%) 61 50	1, 36, 166, 200	0
1	K	552/562 (98%)	0.07	24 (4%) 39 30	1, 36, 166, 200	0
1	L	552/562 (98%)	0.04	15 (2%) 58 48	1, 36, 166, 200	0
1	M	552/562 (98%)	0.08	17 (3%) 52 41	1, 36, 166, 200	0
1	O	552/562 (98%)	0.04	18 (3%) 50 39	1, 36, 166, 200	0
2	a	181/181 (100%)	0.29	14 (7%) 16 12	6, 92, 179, 200	0
2	b	181/181 (100%)	0.36	12 (6%) 22 15	6, 92, 179, 200	0
2	c	181/181 (100%)	0.89	33 (18%) 2 3	6, 92, 179, 200	0
2	d	181/181 (100%)	0.29	11 (6%) 25 18	6, 92, 179, 200	0
2	e	181/181 (100%)	0.44	15 (8%) 14 11	6, 92, 179, 200	0
2	f	181/181 (100%)	0.58	19 (10%) 8 7	6, 92, 179, 200	0
2	g	181/181 (100%)	0.58	17 (9%) 11 8	6, 92, 179, 200	0
2	h	181/181 (100%)	0.27	12 (6%) 22 15	6, 92, 179, 200	0
2	i	181/181 (100%)	0.19	8 (4%) 38 29	6, 92, 179, 200	0
2	j	181/181 (100%)	0.66	22 (12%) 5 6	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%)	0.67	25 (13%) 4 5	6, 92, 179, 200	0
2	l	181/181 (100%)	0.40	11 (6%) 25 18	6, 92, 179, 200	0
2	m	181/181 (100%)	0.26	11 (6%) 25 18	6, 92, 179, 200	0
2	o	181/181 (100%)	0.43	17 (9%) 11 8	6, 92, 179, 200	0
All	All	10262/10402 (98%)	0.14	462 (4%) 37 29	1, 54, 174, 200	0

All (462) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	M	319	SER	13.0
1	F	285	GLN	11.3
1	J	319	SER	9.5
1	C	695	LYS	9.4
2	f	1038	SER	9.2
1	I	319	SER	8.1
2	e	1205	ALA	8.0
2	m	1038	SER	7.7
1	E	319	SER	7.5
1	B	319	SER	7.3
2	c	1199	VAL	7.3
1	F	284	SER	7.2
1	M	306	ASN	7.2
2	e	1202	GLY	7.2
2	c	1198	PRO	7.0
1	O	319	SER	7.0
1	K	283	ASP	6.8
1	I	735	GLY	6.8
1	B	306	ASN	6.6
1	G	323	GLY	6.5
1	B	284	SER	6.5
2	g	1097	GLY	6.5
1	M	318	GLY	6.4
2	c	1059	TRP	6.1
2	o	1205	ALA	6.1
1	G	648	ASP	6.1
2	m	1039	CYS	5.8
2	j	1042	ALA	5.8
1	F	319	SER	5.7
1	B	424	GLN	5.6
1	O	316	ILE	5.6
1	O	318	GLY	5.6

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Mol	Chain	Res	Type	RSRZ
1	C	696	VAL	5.5
1	O	317	GLY	5.5
1	J	424	GLN	5.4
1	J	285	GLN	5.3
1	H	617	ARG	5.3
2	j	1077	GLU	5.3
1	H	319	SER	5.3
1	O	314	PHE	5.3
1	M	312	SER	5.3
2	c	1098	ASP	5.2
2	c	1197	PHE	5.2
1	D	285	GLN	5.2
2	j	1205	ALA	5.2
1	I	424	GLN	5.1
2	f	1201	GLY	5.1
1	L	424	GLN	5.0
1	E	424	GLN	4.9
2	b	1202	GLY	4.9
2	b	1038	SER	4.8
2	h	1043	PHE	4.8
1	K	424	GLN	4.7
2	a	1038	SER	4.7
1	O	315	ASP	4.7
1	G	324	PHE	4.7
1	H	316	ILE	4.7
1	L	283	ASP	4.6
1	K	284	SER	4.6
2	g	1205	ALA	4.6
2	e	1203	PHE	4.5
1	K	693	ASN	4.5
1	H	695	LYS	4.5
2	f	1190	ALA	4.5
1	F	317	GLY	4.5
2	d	1204	GLN	4.4
1	D	304	HIS	4.4
2	f	1097	GLY	4.4
1	D	284	SER	4.4
1	C	428	SER	4.3
2	k	1062	ILE	4.3
1	C	697	ASN	4.3
1	G	398	GLU	4.3
1	G	319	SER	4.3

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Mol	Chain	Res	Type	RSRZ
1	F	653	LYS	4.2
2	l	1038	SER	4.2
1	J	303	VAL	4.2
2	e	1042	ALA	4.2
1	G	647	GLU	4.2
2	j	1097	GLY	4.1
1	L	318	GLY	4.1
1	C	607	ALA	4.1
1	G	322	ALA	4.1
1	M	320	VAL	4.1
2	g	1199	VAL	4.1
2	k	1197	PHE	4.0
2	a	1053	GLY	4.0
2	d	1097	GLY	4.0
1	M	428	SER	4.0
1	C	728	SER	4.0
1	B	307	ALA	3.9
2	o	1097	GLY	3.9
1	D	428	SER	3.9
1	O	398	GLU	3.9
2	o	1078	MET	3.9
1	H	317	GLY	3.9
1	J	286	THR	3.9
1	H	318	GLY	3.9
2	l	1096	THR	3.9
1	K	729	LYS	3.9
1	C	681	TYR	3.9
2	j	1206	LEU	3.9
2	c	1132	GLN	3.9
1	K	285	GLN	3.8
2	o	1110	LYS	3.8
1	G	652	LEU	3.8
2	l	1055	VAL	3.8
2	d	1038	SER	3.8
1	G	424	GLN	3.7
2	f	1056	ALA	3.7
1	A	424	GLN	3.7
1	K	428	SER	3.7
2	a	1040	ARG	3.7
2	j	1197	PHE	3.7
2	c	1040	ARG	3.7
2	a	1214	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
1	E	428	SER	3.7
1	E	688	TYR	3.6
2	d	1205	ALA	3.6
1	H	314	PHE	3.6
1	J	304	HIS	3.6
1	O	424	GLN	3.6
2	c	1038	SER	3.6
2	l	1197	PHE	3.6
1	L	668	LEU	3.6
2	f	1053	GLY	3.6
1	M	313	PHE	3.6
2	j	1098	ASP	3.5
2	d	1058	ASN	3.5
1	F	318	GLY	3.5
1	K	302	GLU	3.5
1	H	323	GLY	3.5
1	L	316	ILE	3.5
1	K	694	TYR	3.4
1	O	695	LYS	3.4
2	c	1057	ASN	3.4
2	o	1204	GLN	3.4
1	A	283	ASP	3.4
2	o	1042	ALA	3.4
2	j	1151	LEU	3.4
2	c	1097	GLY	3.4
1	K	735	GLY	3.3
2	h	1197	PHE	3.3
2	o	1043	PHE	3.3
1	G	649	THR	3.3
2	h	1208	GLY	3.3
1	B	303	VAL	3.3
2	b	1041	ARG	3.3
1	A	317	GLY	3.3
1	L	319	SER	3.3
1	L	312	SER	3.3
2	c	1109	LEU	3.3
1	L	428	SER	3.3
1	K	317	GLY	3.2
1	I	626	GLY	3.2
1	J	318	GLY	3.2
1	G	624	THR	3.2
2	g	1059	TRP	3.2

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Mol	Chain	Res	Type	RSRZ
2	i	1204	GLN	3.2
2	o	1109	LEU	3.2
1	I	284	SER	3.2
1	B	322	ALA	3.2
1	O	313	PHE	3.2
2	a	1075	SER	3.2
2	j	1076	PRO	3.2
1	I	428	SER	3.2
1	O	284	SER	3.2
2	c	1151	LEU	3.2
1	B	428	SER	3.1
2	i	1196	VAL	3.1
1	H	398	GLU	3.1
1	L	322	ALA	3.1
1	C	632	ASP	3.1
1	C	669	ARG	3.1
2	c	1042	ALA	3.1
2	g	1198	PRO	3.1
1	G	728	SER	3.1
1	K	696	VAL	3.1
2	k	1196	VAL	3.1
2	o	1041	ARG	3.1
1	B	667	SER	3.1
2	e	1175	CYS	3.1
1	E	669	ARG	3.1
1	K	316	ILE	3.1
2	k	1059	TRP	3.1
1	B	608	ASP	3.1
2	b	1097	GLY	3.1
2	k	1066	VAL	3.1
2	g	1062	ILE	3.0
2	o	1128	ASN	3.0
1	K	624	THR	3.0
1	J	284	SER	3.0
2	g	1180	ASP	3.0
1	K	319	SER	3.0
2	m	1040	ARG	3.0
2	k	1149	GLY	3.0
1	H	284	SER	3.0
1	H	304	HIS	3.0
2	m	1217	SER	3.0
1	H	693	ASN	3.0

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Mol	Chain	Res	Type	RSRZ
1	M	308	GLU	3.0
1	M	690	SER	3.0
2	o	1208	GLY	2.9
1	D	319	SER	2.9
1	H	647	GLU	2.9
2	g	1055	VAL	2.9
1	A	667	SER	2.9
2	e	1151	LEU	2.9
1	E	313	PHE	2.9
2	j	1187	GLU	2.9
2	j	1189	ILE	2.9
1	C	402	SER	2.9
2	l	1097	GLY	2.9
1	C	729	LYS	2.9
1	L	729	LYS	2.9
2	d	1062	ILE	2.9
2	c	1070	ALA	2.8
2	k	1201	GLY	2.8
1	F	283	ASP	2.8
1	K	429	SER	2.8
2	g	1102	ILE	2.8
2	k	1069	LEU	2.8
1	H	424	GLN	2.8
1	J	322	ALA	2.8
2	c	1205	ALA	2.8
1	C	351	GLY	2.8
2	l	1214	LEU	2.8
1	G	316	ILE	2.8
1	H	275	GLU	2.8
2	k	1177	GLY	2.8
1	M	317	GLY	2.7
2	h	1041	ARG	2.7
1	F	428	SER	2.7
2	m	1100	GLY	2.7
2	k	1129	GLU	2.7
1	C	622	SER	2.7
2	m	1055	VAL	2.7
1	L	284	SER	2.7
2	e	1097	GLY	2.7
1	L	301	SER	2.7
1	B	318	GLY	2.7
2	c	1077	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
2	g	1177	GLY	2.7
1	G	729	LYS	2.7
1	L	730	LYS	2.7
2	k	1150	LYS	2.7
1	E	320	VAL	2.6
2	c	1056	ALA	2.6
2	e	1211	ASN	2.6
2	b	1053	GLY	2.6
2	b	1196	VAL	2.6
2	o	1114	PRO	2.6
2	a	1202	GLY	2.6
2	c	1202	GLY	2.6
1	A	257	ALA	2.6
2	d	1196	VAL	2.6
2	j	1066	VAL	2.6
2	a	1216	GLN	2.6
2	c	1177	GLY	2.6
2	j	1183	GLN	2.6
1	M	305	GLY	2.6
2	d	1201	GLY	2.6
2	o	1211	ASN	2.6
2	l	1201	GLY	2.6
1	G	690	SER	2.6
2	h	1065	PHE	2.6
1	H	428	SER	2.6
1	O	670	GLN	2.6
1	K	688	TYR	2.5
2	b	1199	VAL	2.5
1	K	674	THR	2.5
1	F	695	LYS	2.5
1	A	398	GLU	2.5
1	J	622	SER	2.5
1	G	540	LEU	2.5
2	l	1199	VAL	2.5
1	K	301	SER	2.5
1	C	424	GLN	2.5
1	B	607	ALA	2.5
2	e	1056	ALA	2.5
2	k	1065	PHE	2.5
1	K	291	LYS	2.5
1	K	308	GLU	2.5
1	M	304	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
2	c	1200	LYS	2.5
2	i	1218	CYS	2.5
1	E	621	ASN	2.5
1	O	539	ASN	2.5
2	h	1134	ALA	2.5
1	B	312	SER	2.5
1	F	688	TYR	2.5
1	M	321	SER	2.5
1	C	643	ILE	2.5
2	b	1198	PRO	2.5
1	K	728	SER	2.5
2	c	1209	ILE	2.5
1	A	322	ALA	2.5
2	k	1073	PHE	2.5
2	f	1055	VAL	2.4
2	j	1105	GLY	2.4
1	F	631	ILE	2.4
2	a	1076	PRO	2.4
1	C	602	ASN	2.4
2	e	1066	VAL	2.4
2	k	1068	GLN	2.4
1	G	607	ALA	2.4
2	g	1181	PHE	2.4
1	C	682	ASN	2.4
2	g	1098	ASP	2.4
2	c	1055	VAL	2.4
1	B	308	GLU	2.4
1	G	399	ASN	2.4
2	a	1039	CYS	2.4
2	g	1040	ARG	2.4
2	h	1114	PRO	2.4
1	D	283	ASP	2.4
1	O	320	VAL	2.4
2	e	1116	GLY	2.4
1	M	695	LYS	2.4
2	f	1057	ASN	2.4
1	I	469	VAL	2.4
1	M	284	SER	2.4
2	c	1213	ILE	2.4
1	E	674	THR	2.4
1	M	735	GLY	2.4
2	k	1057	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
2	a	1215	ALA	2.4
2	j	1138	LYS	2.4
2	g	1112	VAL	2.4
2	c	1069	LEU	2.4
2	g	1056	ALA	2.4
2	k	1117	GLU	2.3
2	o	1075	SER	2.3
1	B	618	GLU	2.3
2	f	1200	LYS	2.3
2	i	1214	LEU	2.3
1	G	693	ASN	2.3
1	B	285	GLN	2.3
1	C	601	ASN	2.3
2	e	1204	GLN	2.3
2	k	1216	GLN	2.3
2	j	1214	LEU	2.3
1	O	311	ALA	2.3
2	j	1091	ILE	2.3
2	o	1134	ALA	2.3
2	i	1040	ARG	2.3
2	i	1217	SER	2.3
1	O	669	ARG	2.3
2	c	1131	ILE	2.3
1	E	285	GLN	2.3
1	H	285	GLN	2.3
2	h	1140	SER	2.3
2	i	1197	PHE	2.3
2	e	1187	GLU	2.3
1	C	648	ASP	2.3
2	l	1215	ALA	2.3
2	a	1199	VAL	2.3
2	j	1210	ILE	2.3
1	I	680	LYS	2.3
2	b	1080	LEU	2.3
2	f	1130	GLN	2.2
1	C	210	ILE	2.2
1	J	695	LYS	2.2
2	k	1213	ILE	2.2
1	E	322	ALA	2.2
2	j	1200	LYS	2.2
2	k	1055	VAL	2.2
2	f	1183	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
2	k	1128	ASN	2.2
1	A	180	ASN	2.2
1	F	335	ASP	2.2
1	H	315	ASP	2.2
1	F	424	GLN	2.2
1	A	323	GLY	2.2
2	k	1097	GLY	2.2
2	c	1118	THR	2.2
1	H	302	GLU	2.2
1	B	617	ARG	2.2
2	a	1055	VAL	2.2
1	O	285	GLN	2.2
2	b	1201	GLY	2.2
2	f	1065	PHE	2.2
2	f	1189	ILE	2.2
1	B	324	PHE	2.2
1	I	304	HIS	2.2
1	C	625	GLU	2.2
2	k	1040	ARG	2.2
1	D	317	GLY	2.2
2	m	1042	ALA	2.2
2	k	1151	LEU	2.2
2	h	1040	ARG	2.2
2	f	1128	ASN	2.2
2	f	1202	GLY	2.2
2	o	1038	SER	2.2
1	B	267	GLU	2.2
1	J	688	TYR	2.2
1	L	674	THR	2.2
2	c	1181	PHE	2.2
2	i	1195	GLN	2.2
1	A	733	GLU	2.1
1	G	674	THR	2.1
1	E	422	ASN	2.1
2	d	1078	MET	2.1
2	c	1066	VAL	2.1
1	C	302	GLU	2.1
2	c	1176	VAL	2.1
1	C	398	GLU	2.1
2	g	1042	ALA	2.1
2	m	1202	GLY	2.1
1	G	314	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
2	a	1077	GLU	2.1
2	e	1077	GLU	2.1
2	g	1089	ALA	2.1
2	e	1201	GLY	2.1
2	h	1218	CYS	2.1
1	D	316	ILE	2.1
1	K	318	GLY	2.1
1	G	694	TYR	2.1
1	K	648	ASP	2.1
2	k	1095	LEU	2.1
2	b	1043	PHE	2.1
2	l	1178	VAL	2.1
1	B	735	GLY	2.1
2	d	1117	GLU	2.1
1	L	728	SER	2.1
1	H	303	VAL	2.1
2	j	1109	LEU	2.1
1	E	306	ASN	2.1
2	f	1199	VAL	2.1
2	j	1062	ILE	2.1
1	B	566	LEU	2.1
1	C	659	ARG	2.1
2	b	1039	CYS	2.1
1	A	316	ILE	2.1
1	J	317	GLY	2.1
2	f	1092	ILE	2.1
2	h	1131	ILE	2.1
2	o	1197	PHE	2.1
2	c	1168	SER	2.1
1	O	668	LEU	2.1
1	M	268	ASN	2.0
2	f	1066	VAL	2.0
1	A	729	LYS	2.0
1	G	651	GLY	2.0
1	J	310	HIS	2.0
2	l	1202	GLY	2.0
2	c	1152	ASP	2.0
1	B	313	PHE	2.0
2	m	1116	GLY	2.0
2	c	1099	ARG	2.0
1	E	286	THR	2.0
1	I	674	THR	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	669	ARG	2.0
2	j	1150	LYS	2.0
2	d	1102	ILE	2.0
2	m	1066	VAL	2.0
2	m	1214	LEU	2.0
2	k	1121	HIS	2.0
2	f	1127	ALA	2.0
2	c	1101	LYS	2.0
2	a	1074	VAL	2.0
2	h	1198	PRO	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
4	MG	L	738	1/1	0.93	0.25	-0.53	0,0,0,0	0
4	MG	C	738	1/1	0.86	0.17	-0.86	0,0,0,0	0
4	MG	K	738	1/1	0.78	0.15	-0.96	0,0,0,0	0
3	CA	L	737	1/1	0.94	0.13	-1.11	0,0,0,0	0
4	MG	E	738	1/1	0.82	0.11	-1.15	0,0,0,0	0
3	CA	C	737	1/1	0.94	0.12	-1.25	0,0,0,0	0
4	MG	J	738	1/1	0.80	0.10	-1.27	0,0,0,0	0
4	MG	I	738	1/1	0.73	0.22	-1.29	0,0,0,0	0
3	CA	C	736	1/1	0.99	0.12	-1.32	0,0,0,0	0
4	MG	G	738	1/1	0.81	0.26	-1.41	0,0,0,0	0
3	CA	G	737	1/1	0.90	0.11	-1.44	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	CA	H	737	1/1	0.90	0.09	-1.51	0,0,0,0	0
3	CA	B	736	1/1	0.94	0.06	-1.53	0,0,0,0	0
3	CA	L	736	1/1	0.98	0.10	-1.60	0,0,0,0	0
3	CA	J	737	1/1	0.94	0.10	-1.66	0,0,0,0	0
3	CA	I	737	1/1	0.95	0.07	-1.68	0,0,0,0	0
3	CA	M	737	1/1	0.97	0.09	-1.68	0,0,0,0	0
4	MG	F	738	1/1	0.86	0.16	-1.69	0,0,0,0	0
3	CA	G	736	1/1	0.96	0.07	-1.76	0,0,0,0	0
3	CA	E	736	1/1	0.98	0.07	-1.76	0,0,0,0	0
3	CA	I	736	1/1	0.95	0.10	-1.77	0,0,0,0	0
4	MG	O	738	1/1	0.82	0.10	-1.82	0,0,0,0	0
3	CA	M	736	1/1	1.00	0.09	-1.84	0,0,0,0	0
3	CA	J	736	1/1	0.94	0.06	-1.84	0,0,0,0	0
3	CA	K	737	1/1	0.97	0.06	-1.85	0,0,0,0	0
3	CA	B	737	1/1	0.89	0.10	-1.86	0,0,0,0	0
3	CA	D	737	1/1	0.97	0.07	-1.87	0,0,0,0	0
3	CA	A	736	1/1	0.99	0.08	-1.89	0,0,0,0	0
3	CA	A	737	1/1	0.90	0.11	-1.92	0,0,0,0	0
4	MG	A	738	1/1	0.89	0.15	-1.93	0,0,0,0	0
4	MG	M	738	1/1	0.89	0.06	-2.00	0,0,0,0	0
3	CA	F	737	1/1	0.90	0.10	-2.00	0,0,0,0	0
3	CA	O	737	1/1	0.96	0.05	-2.15	0,0,0,0	0
4	MG	D	738	1/1	0.91	0.05	-2.19	0,0,0,0	0
3	CA	K	736	1/1	0.96	0.07	-2.19	0,0,0,0	0
3	CA	O	736	1/1	0.98	0.03	-2.28	0,0,0,0	0
3	CA	F	736	1/1	0.90	0.07	-2.30	0,0,0,0	0
3	CA	D	736	1/1	0.97	0.04	-2.30	0,0,0,0	0
4	MG	B	738	1/1	0.82	0.16	-2.31	0,0,0,0	0
3	CA	E	737	1/1	0.92	0.13	-2.36	0,0,0,0	0
3	CA	H	736	1/1	0.97	0.08	-2.68	0,0,0,0	0
4	MG	H	738	1/1	0.91	0.08	-2.76	0,0,0,0	0

6.5 Other polymers ⓘ

There are no such residues in this entry.