Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 09:53 am GMT

PDB ID	:	5LI2
EMDB ID	:	EMD-4051
Title	:	bacteriophage phi812K1-420 tail sheath and tail tube protein in native tail
Authors	:	Novacek, J.; Siborova, M.; Benesik, M.; Pantucek, R.; Doskar, J.; Plevka, P.
Deposited on	:	2016-07-14
Resolution	:	6.20 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

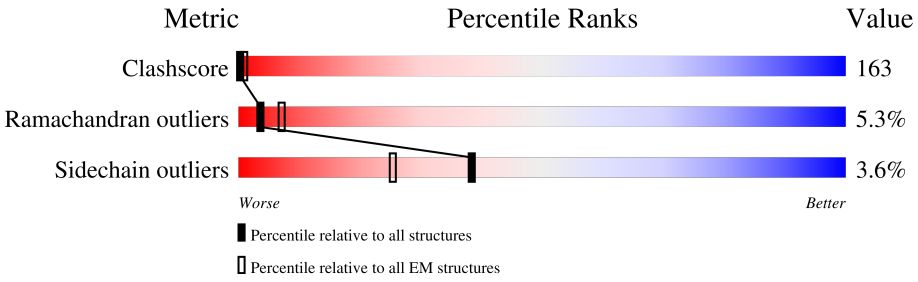
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 6.20 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	587	22% 17% 41% 13% • 27%
1	B	587	24% 18% 40% 13% • 27%
1	C	587	26% 18% 40% 14% • 27%
1	D	587	27% 17% 41% 14% • 27%
1	E	587	28% 17% 41% 13% • 27%
1	F	587	26% 17% 41% 13% • 27%
2	G	155	35% 14% 40% 10% 35%
2	H	155	37% 14% 41% 10% 35%

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Mol	Chain	Length	Quality of chain
2	I	155	41% 14% 40% 10% 35%
2	J	155	39% 14% 41% 10% 35%
2	K	155	39% 12% 42% 10% 35%
2	L	155	35% 13% 41% 10% 35%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 24732 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called tail sheath protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	B	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	C	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	D	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	E	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		
1	F	427	Total	C	N	O	S	0	0
			3345	2110	567	661	7		

- Molecule 2 is a protein called Phage-like element PBSX protein XkdM.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	G	100	Total	C	N	O	S	0	0
			777	489	124	161	3		
2	H	100	Total	C	N	O	S	0	0
			777	489	124	161	3		
2	I	100	Total	C	N	O	S	0	0
			777	489	124	161	3		
2	J	100	Total	C	N	O	S	0	0
			777	489	124	161	3		
2	K	100	Total	C	N	O	S	0	0
			777	489	124	161	3		
2	L	100	Total	C	N	O	S	0	0
			777	489	124	161	3		

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	148	LEU	-	expression tag	UNP P54332
G	149	GLU	-	expression tag	UNP P54332

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Chain	Residue	Modelled	Actual	Comment	Reference
G	150	HIS	-	expression tag	UNP P54332
G	151	HIS	-	expression tag	UNP P54332
G	152	HIS	-	expression tag	UNP P54332
G	153	HIS	-	expression tag	UNP P54332
G	154	HIS	-	expression tag	UNP P54332
G	155	HIS	-	expression tag	UNP P54332
H	148	LEU	-	expression tag	UNP P54332
H	149	GLU	-	expression tag	UNP P54332
H	150	HIS	-	expression tag	UNP P54332
H	151	HIS	-	expression tag	UNP P54332
H	152	HIS	-	expression tag	UNP P54332
H	153	HIS	-	expression tag	UNP P54332
H	154	HIS	-	expression tag	UNP P54332
H	155	HIS	-	expression tag	UNP P54332
I	148	LEU	-	expression tag	UNP P54332
I	149	GLU	-	expression tag	UNP P54332
I	150	HIS	-	expression tag	UNP P54332
I	151	HIS	-	expression tag	UNP P54332
I	152	HIS	-	expression tag	UNP P54332
I	153	HIS	-	expression tag	UNP P54332
I	154	HIS	-	expression tag	UNP P54332
I	155	HIS	-	expression tag	UNP P54332
J	148	LEU	-	expression tag	UNP P54332
J	149	GLU	-	expression tag	UNP P54332
J	150	HIS	-	expression tag	UNP P54332
J	151	HIS	-	expression tag	UNP P54332
J	152	HIS	-	expression tag	UNP P54332
J	153	HIS	-	expression tag	UNP P54332
J	154	HIS	-	expression tag	UNP P54332
J	155	HIS	-	expression tag	UNP P54332
K	148	LEU	-	expression tag	UNP P54332
K	149	GLU	-	expression tag	UNP P54332
K	150	HIS	-	expression tag	UNP P54332
K	151	HIS	-	expression tag	UNP P54332
K	152	HIS	-	expression tag	UNP P54332
K	153	HIS	-	expression tag	UNP P54332
K	154	HIS	-	expression tag	UNP P54332
K	155	HIS	-	expression tag	UNP P54332
L	148	LEU	-	expression tag	UNP P54332
L	149	GLU	-	expression tag	UNP P54332
L	150	HIS	-	expression tag	UNP P54332
L	151	HIS	-	expression tag	UNP P54332

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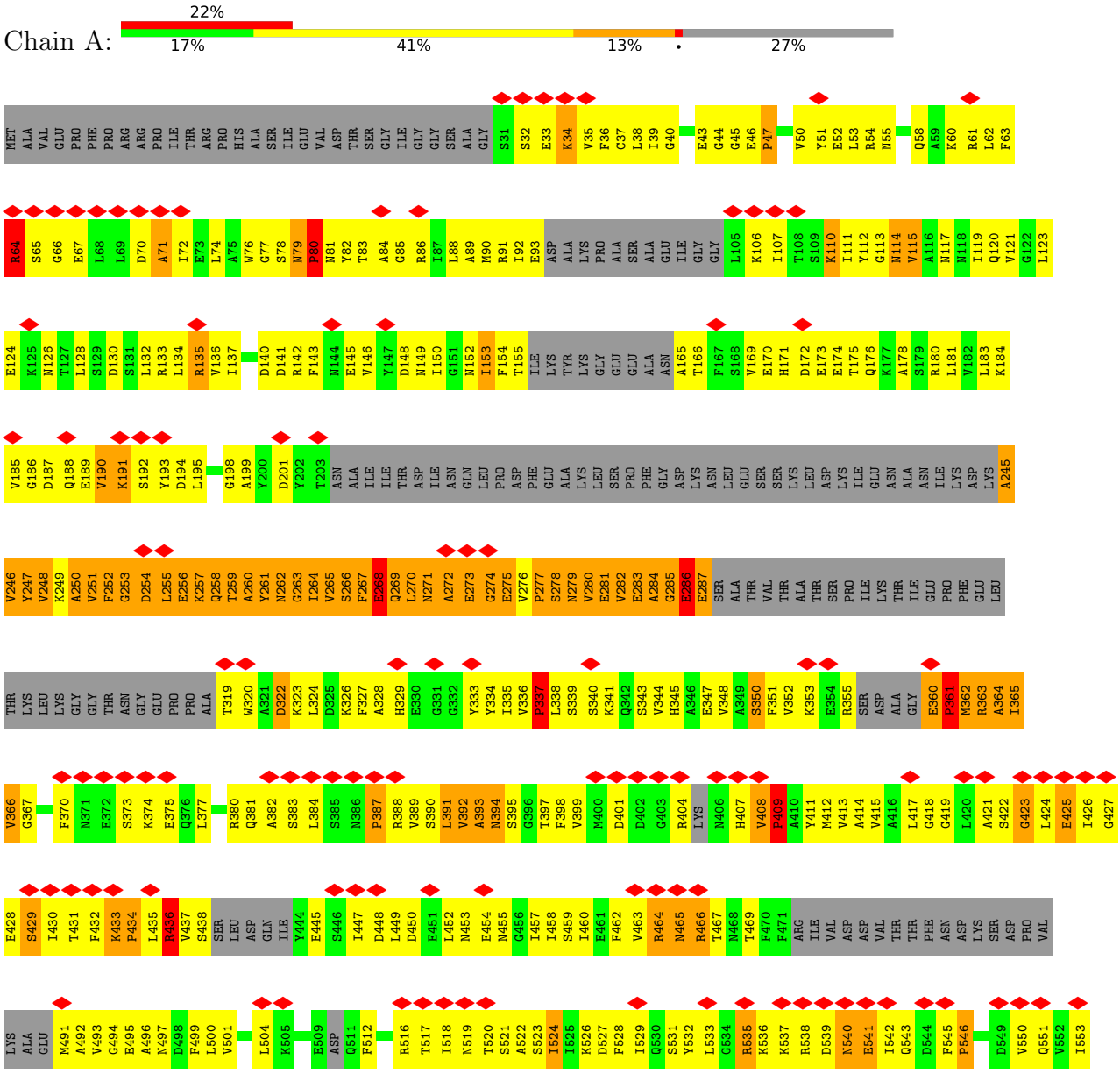
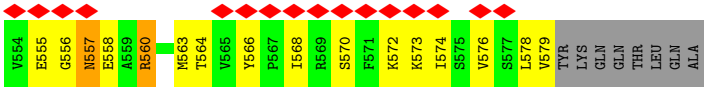
Chain	Residue	Modelled	Actual	Comment	Reference
L	152	HIS	-	expression tag	UNP P54332
L	153	HIS	-	expression tag	UNP P54332
L	154	HIS	-	expression tag	UNP P54332
L	155	HIS	-	expression tag	UNP P54332

3 Residue-property plots (i)

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

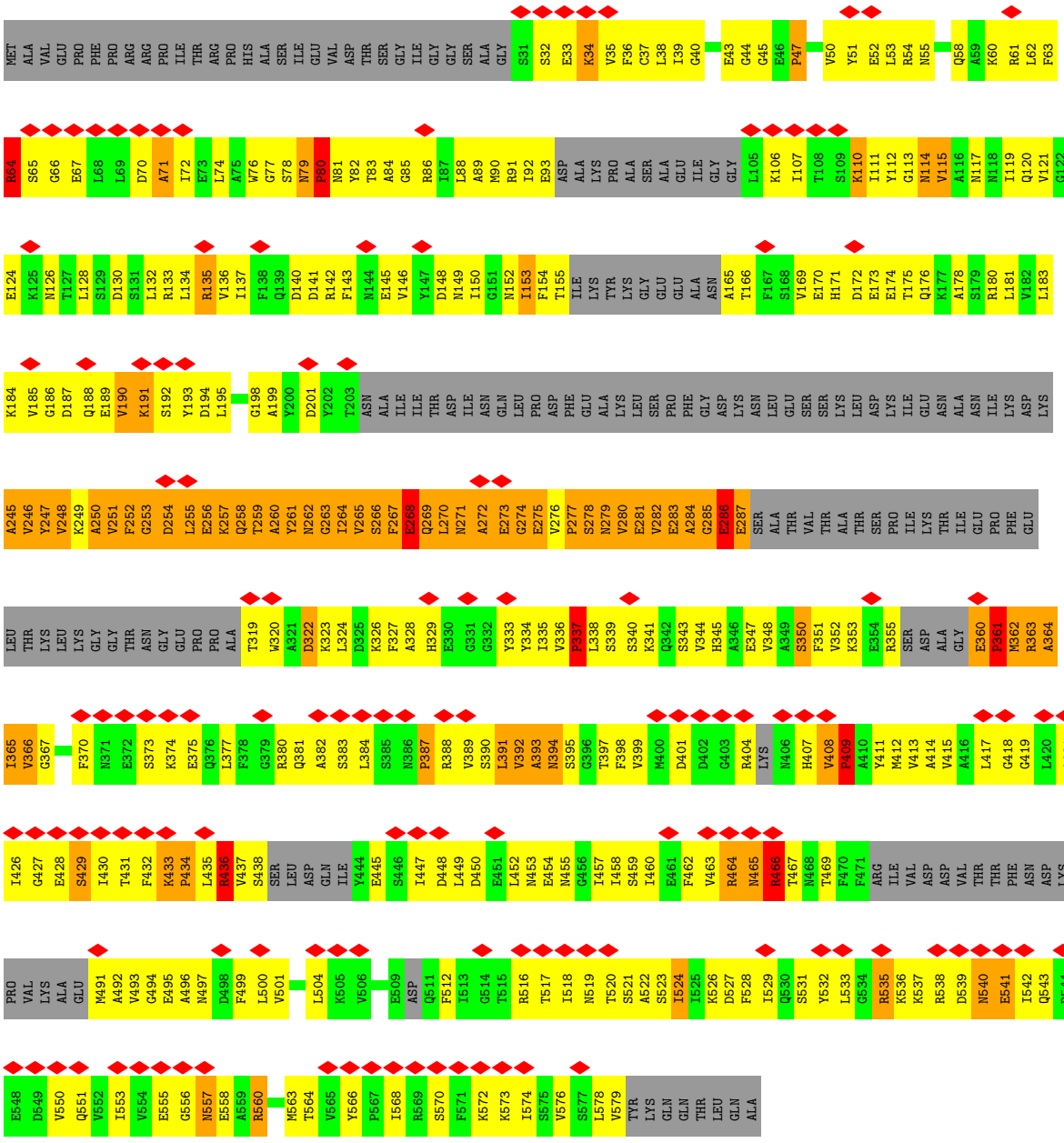
- Molecule 1: tail sheath protein





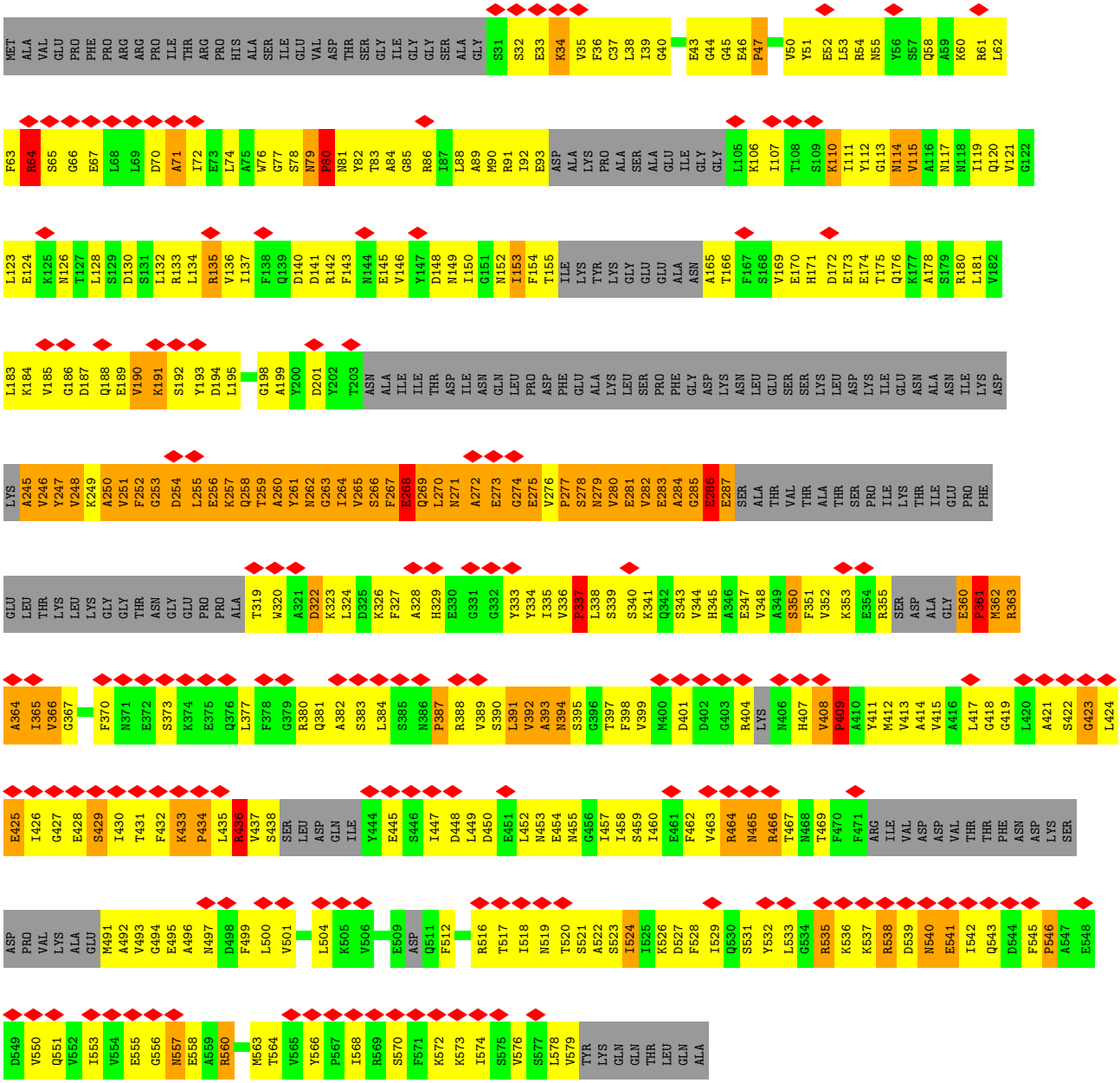
• Molecule 1: tail sheath protein

Chain B:



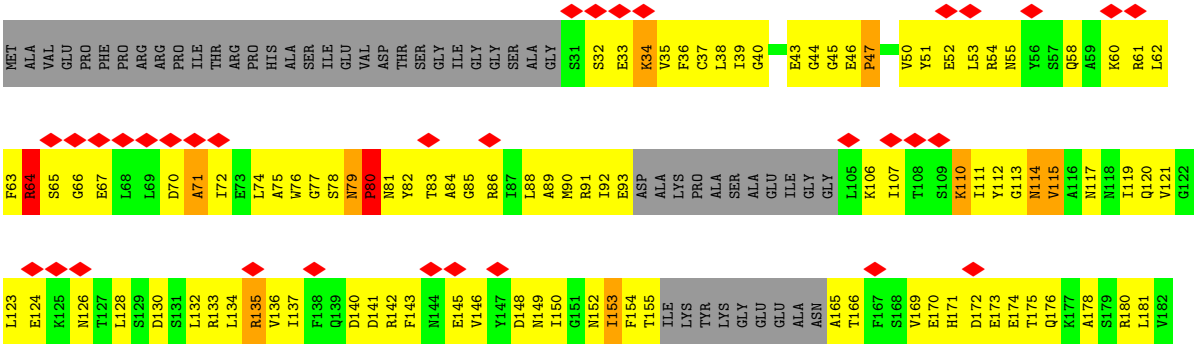
• Molecule 1: tail sheath protein

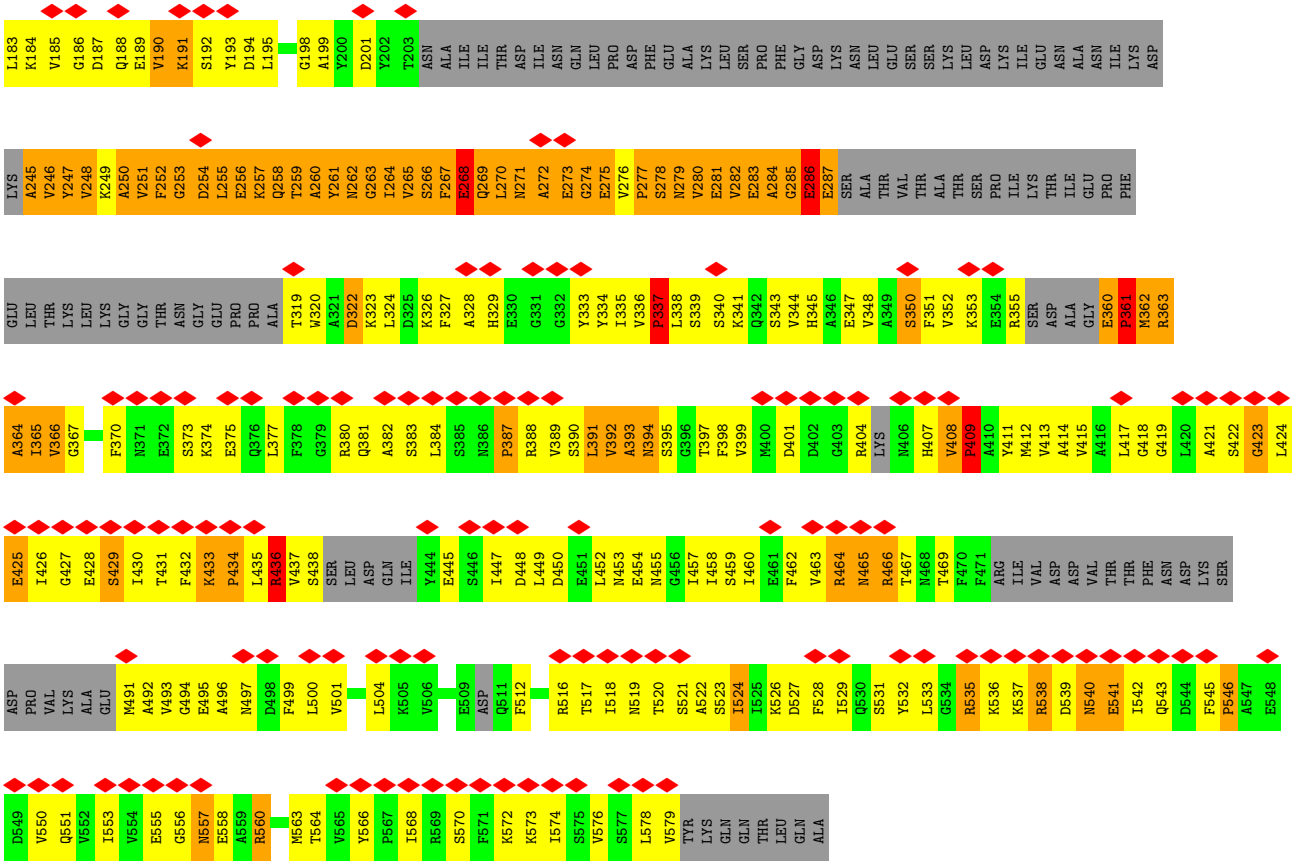
Chain C:



• Molecule 1: tail sheath protein

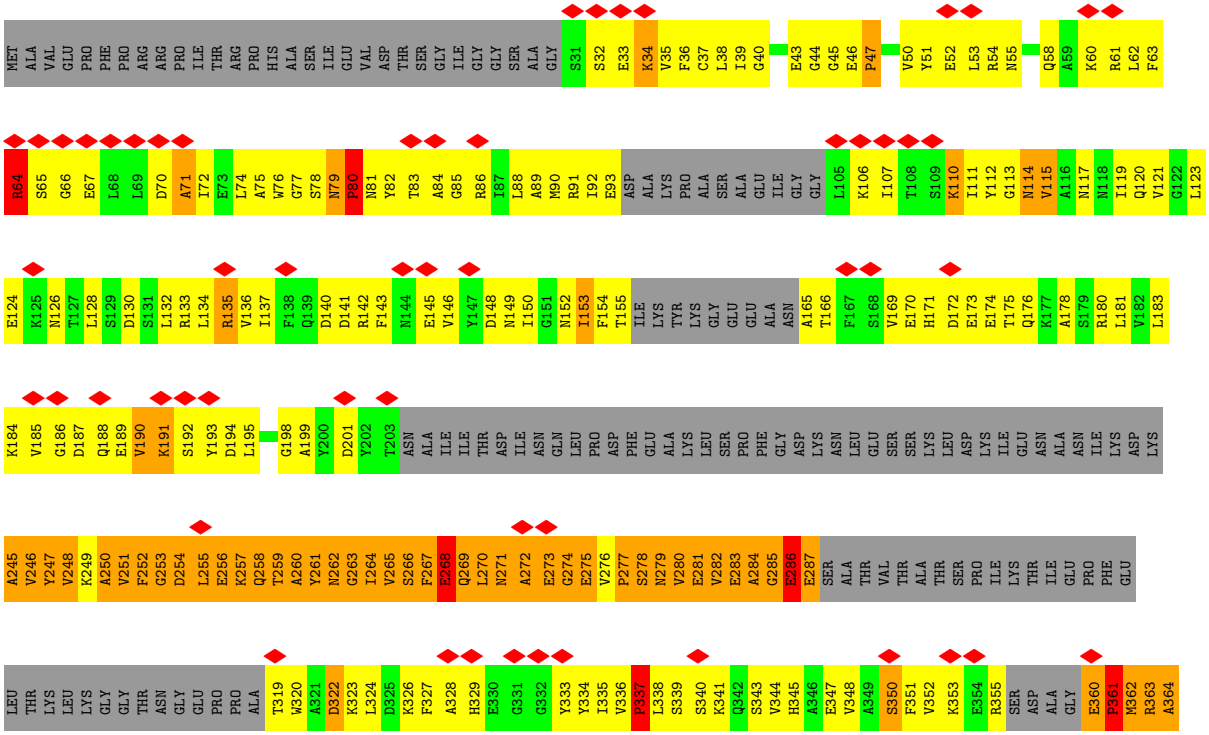
Chain D:

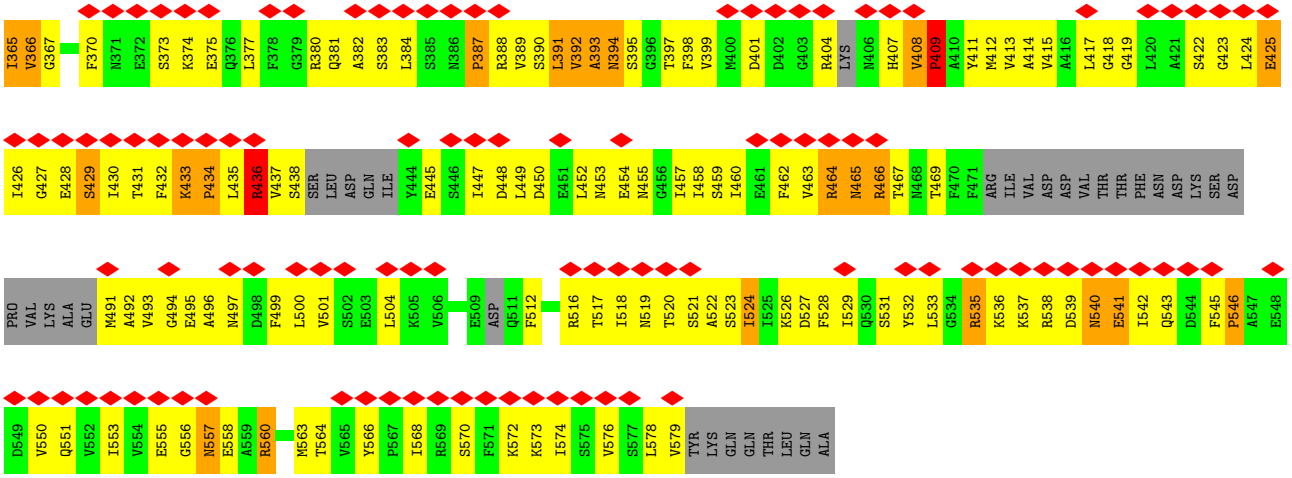




• Molecule 1: tail sheath protein

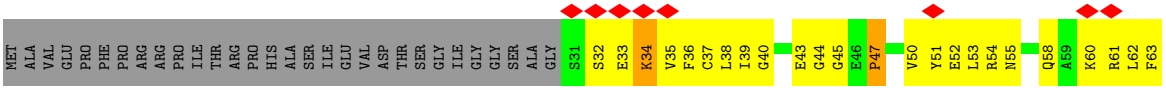
Chain E:

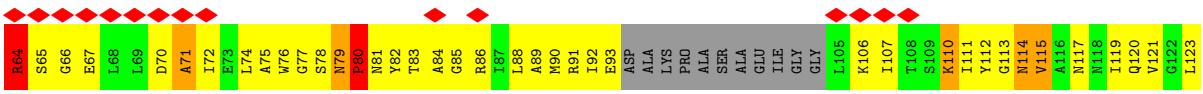


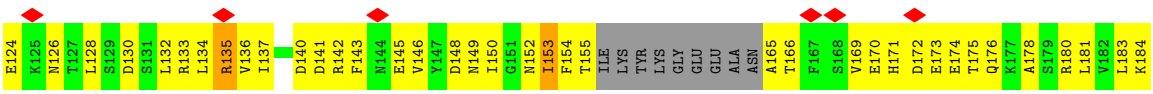


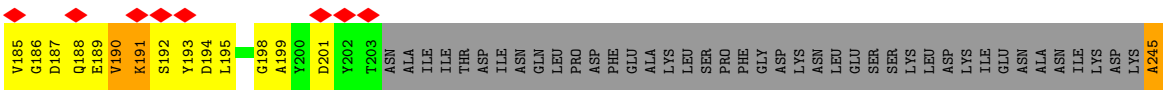
• Molecule 1: tail sheath protein

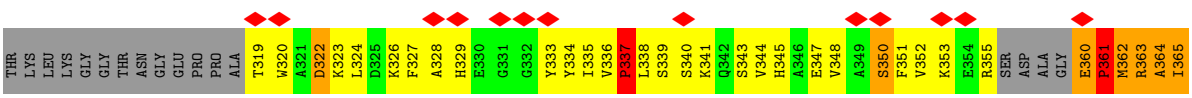
Chain F:

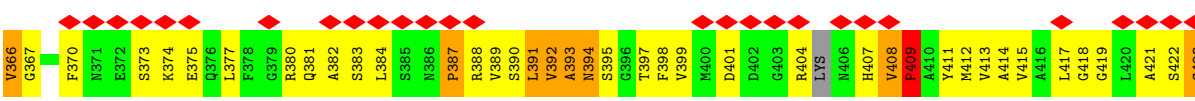


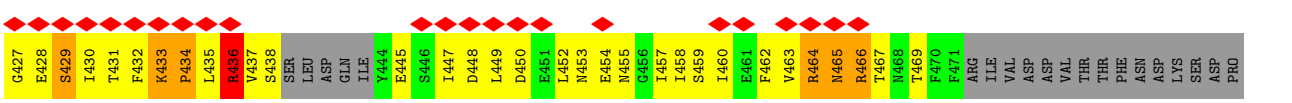


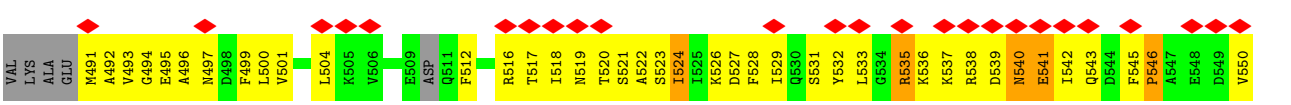


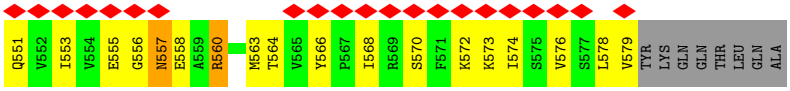




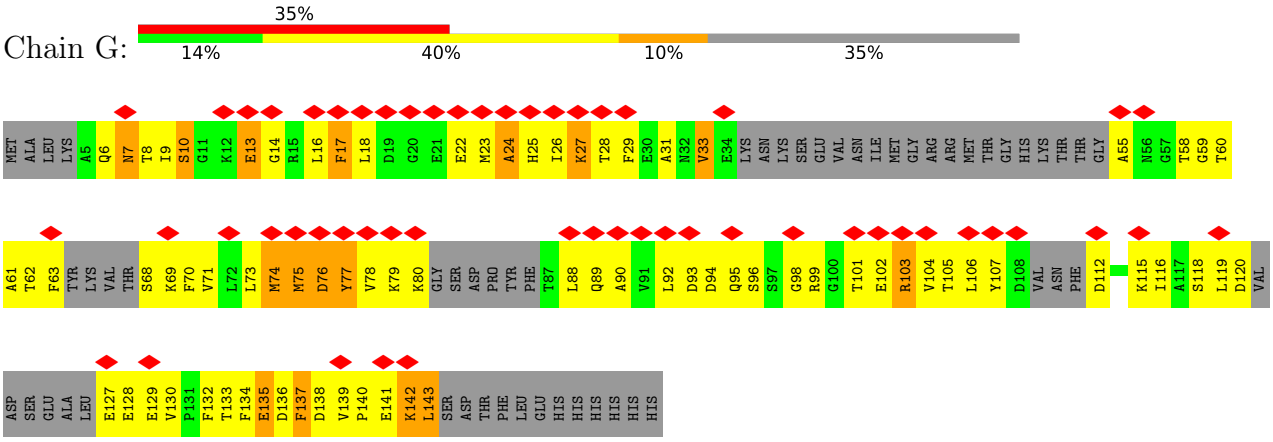




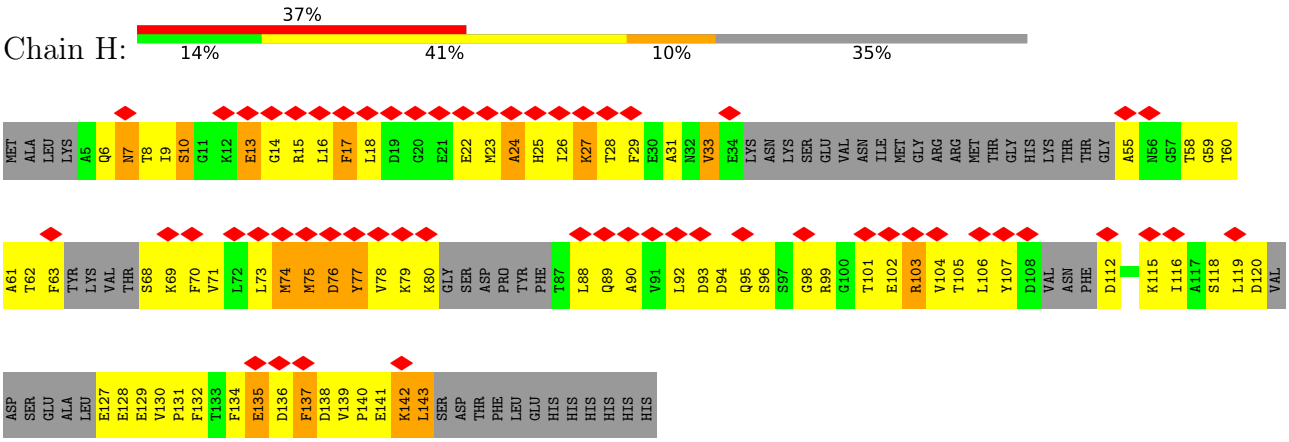




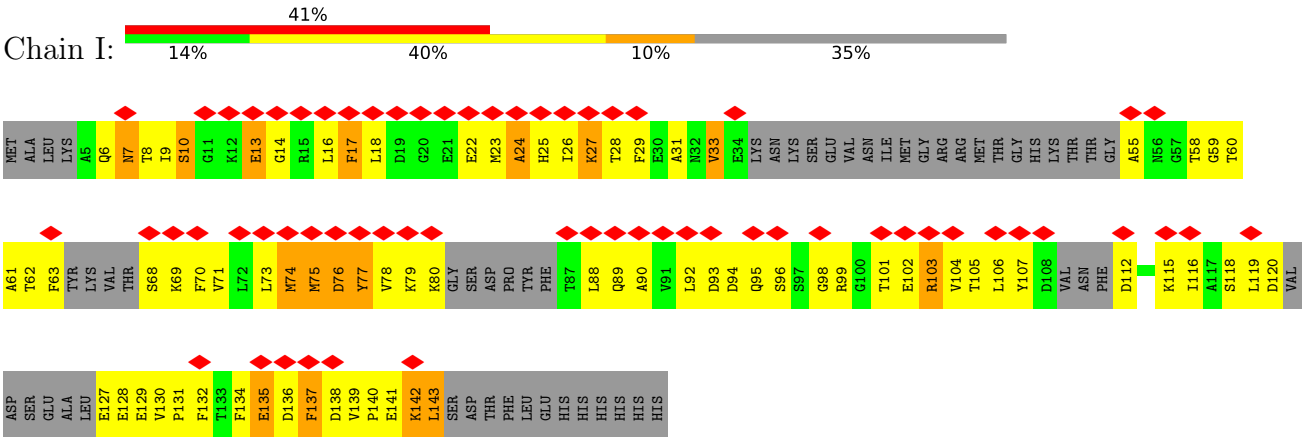
• Molecule 2: Phage-like element PBSX protein XkdM



• Molecule 2: Phage-like element PBSX protein XkdM

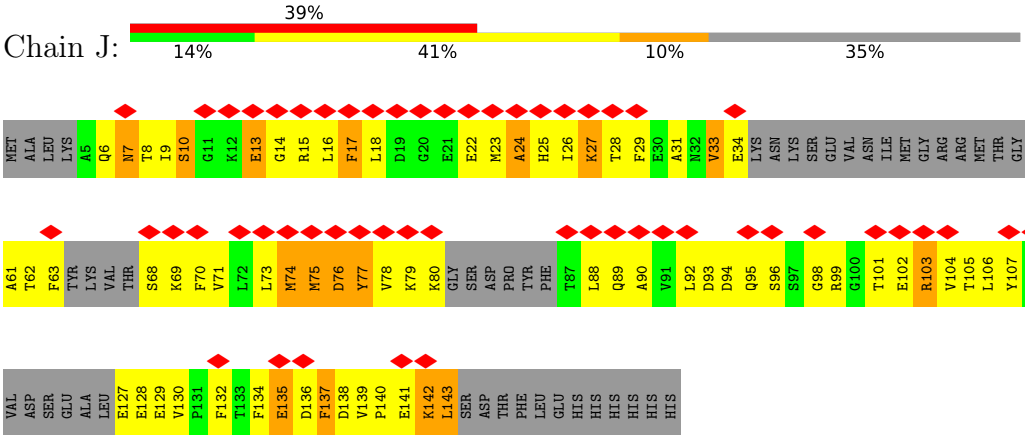


• Molecule 2: Phage-like element PBSX protein XkdM



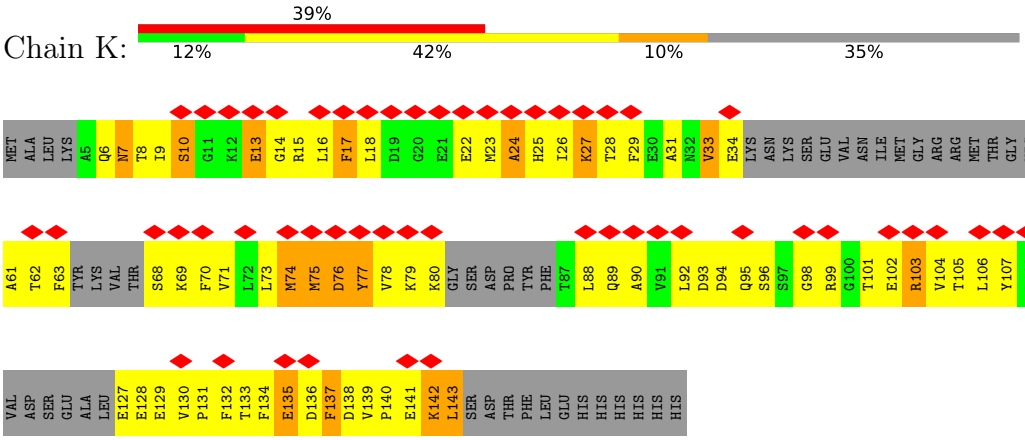
• Molecule 2: Phage-like element PBSX protein XkdM

Chain J:



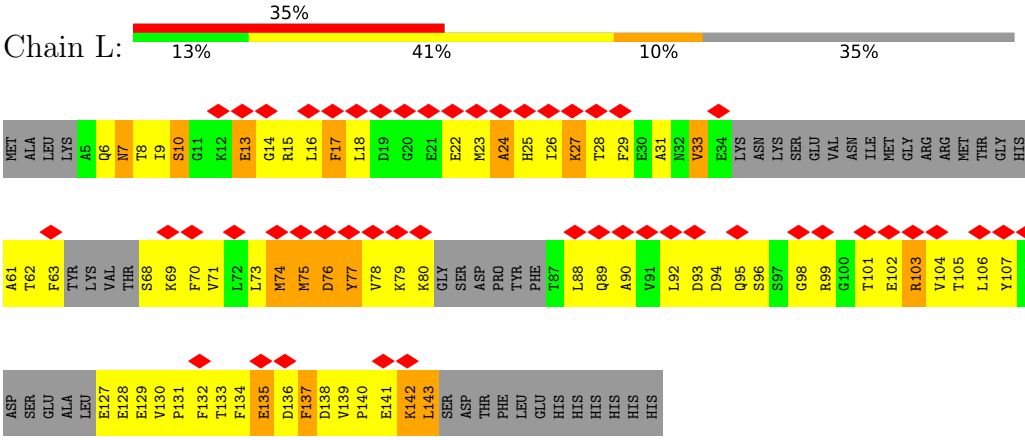
• Molecule 2: Phage-like element PBSX protein XkdM

Chain K:



• Molecule 2: Phage-like element PBSX protein XkdM

Chain L:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=21.4°, rise=38.9 Å, axial sym=C6	Depositor
Number of segments used	3628	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	4.589	Depositor
Minimum map value	-0.178	Depositor
Average map value	0.168	Depositor
Map value standard deviation	0.517	Depositor
Recommended contour level	1.6	Depositor
Map size (Å)	282.9, 282.9, 282.9	wwPDB
Map dimensions	205, 205, 205	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.38, 1.38, 1.38	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	3.49	230/3387 (6.8%)	3.05	104/4554 (2.3%)
1	B	3.49	231/3387 (6.8%)	3.05	104/4554 (2.3%)
1	C	3.48	235/3387 (6.9%)	3.05	104/4554 (2.3%)
1	D	3.49	231/3387 (6.8%)	3.05	104/4554 (2.3%)
1	E	3.49	232/3387 (6.8%)	3.05	104/4554 (2.3%)
1	F	3.49	233/3387 (6.9%)	3.05	104/4554 (2.3%)
2	G	0.64	2/783 (0.3%)	0.69	0/1046
2	H	0.64	2/783 (0.3%)	0.69	0/1046
2	I	0.64	2/783 (0.3%)	0.69	0/1046
2	J	0.64	2/783 (0.3%)	0.70	0/1046
2	K	0.64	2/783 (0.3%)	0.70	0/1046
2	L	0.64	2/783 (0.3%)	0.70	0/1046
All	All	3.15	1404/25020 (5.6%)	2.77	624/33600 (1.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	3
1	C	0	3
1	D	0	3
1	E	0	3
1	F	0	3
All	All	0	18

All (1404) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	546	PRO	N-CD	55.46	2.25	1.47
1	F	546	PRO	N-CD	55.45	2.25	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	546	PRO	N-CD	55.42	2.25	1.47
1	A	546	PRO	N-CD	55.41	2.25	1.47
1	D	546	PRO	N-CD	55.41	2.25	1.47
1	B	546	PRO	N-CD	55.39	2.25	1.47
1	B	434	PRO	N-CD	54.60	2.24	1.47
1	D	434	PRO	N-CD	54.57	2.24	1.47
1	A	434	PRO	N-CD	54.55	2.24	1.47
1	E	434	PRO	N-CD	54.52	2.24	1.47
1	F	434	PRO	N-CD	54.51	2.24	1.47
1	C	434	PRO	N-CD	54.50	2.24	1.47
1	F	387	PRO	N-CD	53.84	2.23	1.47
1	A	387	PRO	N-CD	53.82	2.23	1.47
1	E	387	PRO	N-CD	53.81	2.23	1.47
1	C	387	PRO	N-CD	53.80	2.23	1.47
1	B	387	PRO	N-CD	53.78	2.23	1.47
1	D	387	PRO	N-CD	53.77	2.23	1.47
1	B	361	PRO	N-CD	53.53	2.22	1.47
1	E	361	PRO	N-CD	53.53	2.22	1.47
1	A	361	PRO	N-CD	53.52	2.22	1.47
1	D	361	PRO	N-CD	53.52	2.22	1.47
1	C	361	PRO	N-CD	53.47	2.22	1.47
1	F	361	PRO	N-CD	53.44	2.22	1.47
1	B	80	PRO	N-CD	52.67	2.21	1.47
1	D	80	PRO	N-CD	52.67	2.21	1.47
1	A	80	PRO	N-CD	52.65	2.21	1.47
1	E	80	PRO	N-CD	52.65	2.21	1.47
1	C	80	PRO	N-CD	52.64	2.21	1.47
1	F	80	PRO	N-CD	52.64	2.21	1.47
1	C	337	PRO	N-CD	51.08	2.19	1.47
1	A	337	PRO	N-CD	51.06	2.19	1.47
1	E	337	PRO	N-CD	51.05	2.19	1.47
1	D	337	PRO	N-CD	51.05	2.19	1.47
1	F	337	PRO	N-CD	51.04	2.19	1.47
1	B	337	PRO	N-CD	51.03	2.19	1.47
1	B	47	PRO	N-CD	50.34	2.18	1.47
1	D	47	PRO	N-CD	50.31	2.18	1.47
1	A	47	PRO	N-CD	50.30	2.18	1.47
1	E	47	PRO	N-CD	50.30	2.18	1.47
1	C	47	PRO	N-CD	50.27	2.18	1.47
1	F	47	PRO	N-CD	50.26	2.18	1.47
1	A	409	PRO	N-CD	48.13	2.15	1.47
1	F	409	PRO	N-CD	48.06	2.15	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	409	PRO	N-CD	48.04	2.15	1.47
1	D	409	PRO	N-CD	48.03	2.15	1.47
1	B	409	PRO	N-CD	48.03	2.15	1.47
1	C	409	PRO	N-CD	48.00	2.15	1.47
1	A	277	PRO	N-CD	47.14	2.13	1.47
1	D	277	PRO	N-CD	47.12	2.13	1.47
1	B	277	PRO	N-CD	47.09	2.13	1.47
1	E	277	PRO	N-CD	47.08	2.13	1.47
1	C	277	PRO	N-CD	47.05	2.13	1.47
1	F	277	PRO	N-CD	47.04	2.13	1.47
1	A	37	CYS	CB-SG	-23.70	1.42	1.82
1	B	37	CYS	CB-SG	-23.67	1.42	1.82
1	C	37	CYS	CB-SG	-23.65	1.42	1.82
1	E	37	CYS	CB-SG	-23.62	1.42	1.82
1	F	37	CYS	CB-SG	-23.60	1.42	1.82
1	D	37	CYS	CB-SG	-23.59	1.42	1.82
1	A	261	TYR	CB-CG	-9.49	1.37	1.51
1	B	261	TYR	CB-CG	-9.49	1.37	1.51
1	E	261	TYR	CB-CG	-9.49	1.37	1.51
1	C	261	TYR	CB-CG	-9.47	1.37	1.51
1	F	261	TYR	CB-CG	-9.47	1.37	1.51
1	D	261	TYR	CB-CG	-9.44	1.37	1.51
1	D	247	TYR	CG-CD1	-9.02	1.27	1.39
1	E	247	TYR	CG-CD1	-9.01	1.27	1.39
1	C	247	TYR	CG-CD1	-9.00	1.27	1.39
1	A	247	TYR	CG-CD1	-8.99	1.27	1.39
1	B	247	TYR	CG-CD1	-8.99	1.27	1.39
1	F	247	TYR	CG-CD1	-8.93	1.27	1.39
1	E	247	TYR	CE1-CZ	-8.83	1.27	1.38
1	B	247	TYR	CE1-CZ	-8.80	1.27	1.38
1	F	247	TYR	CE1-CZ	-8.80	1.27	1.38
1	A	283	GLU	CD-OE2	-8.79	1.16	1.25
1	D	283	GLU	CD-OE2	-8.79	1.16	1.25
1	D	247	TYR	CE1-CZ	-8.79	1.27	1.38
1	C	247	TYR	CE1-CZ	-8.79	1.27	1.38
1	B	283	GLU	CD-OE2	-8.79	1.16	1.25
1	A	247	TYR	CE1-CZ	-8.78	1.27	1.38
1	E	283	GLU	CD-OE2	-8.76	1.16	1.25
1	C	283	GLU	CD-OE2	-8.75	1.16	1.25
1	F	283	GLU	CD-OE2	-8.75	1.16	1.25
1	F	247	TYR	CG-CD2	-8.74	1.27	1.39
1	C	247	TYR	CG-CD2	-8.73	1.27	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	247	TYR	CG-CD2	-8.72	1.27	1.39
1	A	247	TYR	CG-CD2	-8.71	1.27	1.39
1	B	247	TYR	CG-CD2	-8.70	1.27	1.39
1	A	266	SER	CB-OG	-8.69	1.30	1.42
1	D	266	SER	CB-OG	-8.69	1.30	1.42
1	F	275	GLU	CD-OE2	-8.69	1.16	1.25
1	B	266	SER	CB-OG	-8.68	1.30	1.42
1	E	266	SER	CB-OG	-8.68	1.30	1.42
1	E	247	TYR	CG-CD2	-8.67	1.27	1.39
1	F	266	SER	CB-OG	-8.66	1.30	1.42
1	F	278	SER	CB-OG	-8.65	1.31	1.42
1	B	275	GLU	CD-OE2	-8.65	1.16	1.25
1	C	275	GLU	CD-OE2	-8.64	1.16	1.25
1	C	278	SER	CB-OG	-8.64	1.31	1.42
1	B	278	SER	CB-OG	-8.63	1.31	1.42
1	B	256	GLU	CD-OE2	-8.62	1.16	1.25
1	D	275	GLU	CD-OE2	-8.62	1.16	1.25
1	C	266	SER	CB-OG	-8.62	1.31	1.42
1	F	275	GLU	CD-OE1	-8.61	1.16	1.25
1	A	275	GLU	CD-OE1	-8.61	1.16	1.25
1	F	256	GLU	CD-OE2	-8.60	1.16	1.25
1	D	256	GLU	CD-OE2	-8.60	1.16	1.25
1	C	275	GLU	CD-OE1	-8.59	1.16	1.25
1	A	256	GLU	CD-OE2	-8.59	1.16	1.25
1	E	278	SER	CB-OG	-8.59	1.31	1.42
1	E	275	GLU	CD-OE1	-8.59	1.16	1.25
1	C	273	GLU	CD-OE2	-8.58	1.16	1.25
1	F	273	GLU	CD-OE2	-8.58	1.16	1.25
1	A	273	GLU	CD-OE2	-8.57	1.16	1.25
1	A	278	SER	CB-OG	-8.57	1.31	1.42
1	C	256	GLU	CD-OE2	-8.57	1.16	1.25
1	D	273	GLU	CD-OE2	-8.57	1.16	1.25
1	D	278	SER	CB-OG	-8.56	1.31	1.42
1	E	275	GLU	CD-OE2	-8.56	1.16	1.25
1	A	275	GLU	CD-OE2	-8.56	1.16	1.25
1	C	287	GLU	CD-OE1	-8.55	1.16	1.25
1	D	275	GLU	CD-OE1	-8.55	1.16	1.25
1	F	287	GLU	CD-OE1	-8.55	1.16	1.25
1	E	256	GLU	CD-OE2	-8.54	1.16	1.25
1	A	287	GLU	CD-OE1	-8.54	1.16	1.25
1	D	287	GLU	CD-OE1	-8.54	1.16	1.25
1	B	275	GLU	CD-OE1	-8.54	1.16	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	273	GLU	CD-OE1	-8.54	1.16	1.25
1	C	281	GLU	CD-OE1	-8.53	1.16	1.25
1	E	283	GLU	CD-OE1	-8.52	1.16	1.25
1	B	273	GLU	CD-OE1	-8.52	1.16	1.25
1	B	287	GLU	CD-OE1	-8.52	1.16	1.25
1	E	287	GLU	CD-OE1	-8.52	1.16	1.25
1	B	287	GLU	CD-OE2	-8.50	1.16	1.25
1	C	256	GLU	CD-OE1	-8.50	1.16	1.25
1	F	256	GLU	CD-OE1	-8.50	1.16	1.25
1	A	286	GLU	CD-OE1	-8.50	1.16	1.25
1	B	273	GLU	CD-OE2	-8.50	1.16	1.25
1	D	286	GLU	CD-OE1	-8.50	1.16	1.25
1	E	273	GLU	CD-OE2	-8.50	1.16	1.25
1	B	256	GLU	CD-OE1	-8.49	1.16	1.25
1	E	256	GLU	CD-OE1	-8.49	1.16	1.25
1	A	256	GLU	CD-OE1	-8.49	1.16	1.25
1	B	286	GLU	CD-OE1	-8.49	1.16	1.25
1	E	286	GLU	CD-OE1	-8.49	1.16	1.25
1	C	286	GLU	CD-OE1	-8.49	1.16	1.25
1	F	286	GLU	CD-OE1	-8.49	1.16	1.25
1	A	268	GLU	CD-OE2	-8.48	1.16	1.25
1	D	256	GLU	CD-OE1	-8.48	1.16	1.25
1	A	273	GLU	CD-OE1	-8.47	1.16	1.25
1	D	273	GLU	CD-OE1	-8.47	1.16	1.25
1	C	283	GLU	CD-OE1	-8.47	1.16	1.25
1	F	281	GLU	CD-OE1	-8.47	1.16	1.25
1	E	287	GLU	CD-OE2	-8.47	1.16	1.25
1	B	281	GLU	CD-OE1	-8.46	1.16	1.25
1	A	287	GLU	CD-OE2	-8.46	1.16	1.25
1	C	273	GLU	CD-OE1	-8.45	1.16	1.25
1	F	273	GLU	CD-OE1	-8.45	1.16	1.25
1	C	268	GLU	CD-OE2	-8.44	1.16	1.25
1	C	287	GLU	CD-OE2	-8.44	1.16	1.25
1	F	247	TYR	CE2-CZ	-8.44	1.27	1.38
1	F	287	GLU	CD-OE2	-8.44	1.16	1.25
1	A	281	GLU	CD-OE2	-8.43	1.16	1.25
1	B	283	GLU	CD-OE1	-8.43	1.16	1.25
1	C	281	GLU	CD-OE2	-8.43	1.16	1.25
1	D	281	GLU	CD-OE2	-8.43	1.16	1.25
1	D	268	GLU	CD-OE2	-8.43	1.16	1.25
1	F	281	GLU	CD-OE2	-8.43	1.16	1.25
1	A	281	GLU	CD-OE1	-8.43	1.16	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	286	GLU	CD-OE2	-8.42	1.16	1.25
1	E	286	GLU	CD-OE2	-8.42	1.16	1.25
1	F	286	GLU	CD-OE2	-8.42	1.16	1.25
1	F	268	GLU	CD-OE2	-8.42	1.16	1.25
1	D	247	TYR	CE2-CZ	-8.41	1.27	1.38
1	E	281	GLU	CD-OE1	-8.41	1.16	1.25
1	A	268	GLU	CD-OE1	-8.41	1.16	1.25
1	B	247	TYR	CE2-CZ	-8.40	1.27	1.38
1	E	247	TYR	CE2-CZ	-8.40	1.27	1.38
1	D	281	GLU	CD-OE1	-8.40	1.16	1.25
1	F	283	GLU	CD-OE1	-8.40	1.16	1.25
1	E	281	GLU	CD-OE2	-8.40	1.16	1.25
1	A	247	TYR	CE2-CZ	-8.39	1.27	1.38
1	E	268	GLU	CD-OE1	-8.39	1.16	1.25
1	A	283	GLU	CD-OE1	-8.39	1.16	1.25
1	A	286	GLU	CD-OE2	-8.39	1.16	1.25
1	D	283	GLU	CD-OE1	-8.39	1.16	1.25
1	D	286	GLU	CD-OE2	-8.39	1.16	1.25
1	D	287	GLU	CD-OE2	-8.38	1.16	1.25
1	C	247	TYR	CE2-CZ	-8.38	1.27	1.38
1	E	268	GLU	CD-OE2	-8.36	1.16	1.25
1	B	268	GLU	CD-OE2	-8.36	1.16	1.25
1	B	286	GLU	CD-OE2	-8.34	1.16	1.25
1	C	268	GLU	CD-OE1	-8.34	1.16	1.25
1	F	268	GLU	CD-OE1	-8.34	1.16	1.25
1	D	268	GLU	CD-OE1	-8.32	1.16	1.25
1	B	281	GLU	CD-OE2	-8.32	1.16	1.25
1	B	268	GLU	CD-OE1	-8.31	1.16	1.25
1	C	267	PHE	CB-CG	-8.31	1.37	1.51
1	F	267	PHE	CB-CG	-8.30	1.37	1.51
1	E	278	SER	CA-CB	-8.29	1.40	1.52
1	A	278	SER	CA-CB	-8.27	1.40	1.52
1	B	253	GLY	N-CA	-8.27	1.33	1.46
1	D	278	SER	CA-CB	-8.27	1.40	1.52
1	E	247	TYR	CD2-CE2	-8.26	1.26	1.39
1	A	267	PHE	CB-CG	-8.26	1.37	1.51
1	D	267	PHE	CB-CG	-8.26	1.37	1.51
1	B	278	SER	CA-CB	-8.26	1.40	1.52
1	C	247	TYR	CD2-CE2	-8.25	1.26	1.39
1	B	267	PHE	CB-CG	-8.24	1.37	1.51
1	F	247	TYR	CD2-CE2	-8.24	1.26	1.39
1	C	278	SER	CA-CB	-8.24	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	278	SER	CA-CB	-8.24	1.40	1.52
1	B	247	TYR	CD2-CE2	-8.23	1.27	1.39
1	C	253	GLY	N-CA	-8.23	1.33	1.46
1	A	253	GLY	N-CA	-8.22	1.33	1.46
1	E	267	PHE	CB-CG	-8.22	1.37	1.51
1	D	247	TYR	CD2-CE2	-8.22	1.27	1.39
1	A	247	TYR	CB-CG	-8.22	1.39	1.51
1	A	247	TYR	CD2-CE2	-8.21	1.27	1.39
1	D	253	GLY	N-CA	-8.21	1.33	1.46
1	F	253	GLY	N-CA	-8.20	1.33	1.46
1	A	252	PHE	CB-CG	-8.17	1.37	1.51
1	E	253	GLY	N-CA	-8.17	1.33	1.46
1	F	285	GLY	N-CA	-8.16	1.33	1.46
1	B	247	TYR	CB-CG	-8.16	1.39	1.51
1	D	252	PHE	CB-CG	-8.16	1.37	1.51
1	E	247	TYR	CB-CG	-8.16	1.39	1.51
1	F	252	PHE	CB-CG	-8.16	1.37	1.51
1	B	252	PHE	CB-CG	-8.15	1.37	1.51
1	D	285	GLY	N-CA	-8.14	1.33	1.46
1	D	247	TYR	CB-CG	-8.13	1.39	1.51
1	C	285	GLY	N-CA	-8.11	1.33	1.46
1	E	252	PHE	CB-CG	-8.11	1.37	1.51
1	C	252	PHE	CB-CG	-8.10	1.37	1.51
1	A	285	GLY	N-CA	-8.10	1.33	1.46
1	B	285	GLY	N-CA	-8.10	1.33	1.46
1	E	285	GLY	N-CA	-8.09	1.33	1.46
1	C	247	TYR	CB-CG	-8.09	1.39	1.51
1	F	247	TYR	CB-CG	-8.09	1.39	1.51
1	F	247	TYR	CD1-CE1	-8.03	1.27	1.39
1	C	247	TYR	CD1-CE1	-7.98	1.27	1.39
1	D	247	TYR	CD1-CE1	-7.97	1.27	1.39
1	B	247	TYR	CD1-CE1	-7.96	1.27	1.39
1	E	247	TYR	CD1-CE1	-7.96	1.27	1.39
1	A	247	TYR	CD1-CE1	-7.95	1.27	1.39
1	A	273	GLU	CG-CD	-7.87	1.40	1.51
1	B	273	GLU	CG-CD	-7.86	1.40	1.51
1	F	274	GLY	N-CA	-7.83	1.34	1.46
1	E	268	GLU	CG-CD	-7.83	1.40	1.51
1	D	275	GLU	CG-CD	-7.82	1.40	1.51
1	C	287	GLU	CG-CD	-7.82	1.40	1.51
1	B	268	GLU	CG-CD	-7.81	1.40	1.51
1	C	273	GLU	CG-CD	-7.81	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	268	GLU	CG-CD	-7.81	1.40	1.51
1	F	268	GLU	CG-CD	-7.81	1.40	1.51
1	D	273	GLU	CG-CD	-7.80	1.40	1.51
1	C	268	GLU	CG-CD	-7.80	1.40	1.51
1	F	273	GLU	CG-CD	-7.80	1.40	1.51
1	E	273	GLU	CG-CD	-7.79	1.40	1.51
1	D	274	GLY	N-CA	-7.79	1.34	1.46
1	C	274	GLY	N-CA	-7.78	1.34	1.46
1	A	286	GLU	CG-CD	-7.78	1.40	1.51
1	D	286	GLU	CG-CD	-7.78	1.40	1.51
1	F	287	GLU	CG-CD	-7.78	1.40	1.51
1	F	286	GLU	CG-CD	-7.78	1.40	1.51
1	A	287	GLU	CG-CD	-7.77	1.40	1.51
1	E	274	GLY	N-CA	-7.77	1.34	1.46
1	D	287	GLU	CG-CD	-7.77	1.40	1.51
1	A	268	GLU	CG-CD	-7.76	1.40	1.51
1	B	286	GLU	CG-CD	-7.76	1.40	1.51
1	C	286	GLU	CG-CD	-7.76	1.40	1.51
1	E	287	GLU	CG-CD	-7.76	1.40	1.51
1	B	287	GLU	CG-CD	-7.76	1.40	1.51
1	E	286	GLU	CG-CD	-7.76	1.40	1.51
1	A	274	GLY	N-CA	-7.75	1.34	1.46
1	F	266	SER	CA-CB	-7.75	1.41	1.52
1	B	274	GLY	N-CA	-7.75	1.34	1.46
1	D	281	GLU	CG-CD	-7.75	1.40	1.51
1	D	283	GLU	CG-CD	-7.74	1.40	1.51
1	C	283	GLU	CG-CD	-7.74	1.40	1.51
1	E	275	GLU	CG-CD	-7.74	1.40	1.51
1	C	275	GLU	CG-CD	-7.73	1.40	1.51
1	B	266	SER	CA-CB	-7.72	1.41	1.52
1	E	266	SER	CA-CB	-7.72	1.41	1.52
1	D	266	SER	CA-CB	-7.71	1.41	1.52
1	F	275	GLU	CG-CD	-7.71	1.40	1.51
1	E	281	GLU	CG-CD	-7.71	1.40	1.51
1	A	266	SER	CA-CB	-7.71	1.41	1.52
1	C	266	SER	CA-CB	-7.70	1.41	1.52
1	A	275	GLU	CG-CD	-7.69	1.40	1.51
1	B	275	GLU	CG-CD	-7.69	1.40	1.51
1	A	256	GLU	CG-CD	-7.69	1.40	1.51
1	D	256	GLU	CG-CD	-7.69	1.40	1.51
1	B	283	GLU	CG-CD	-7.69	1.40	1.51
1	A	283	GLU	CG-CD	-7.67	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	281	GLU	CG-CD	-7.67	1.40	1.51
1	B	281	GLU	CG-CD	-7.67	1.40	1.51
1	E	253	GLY	CA-C	-7.67	1.39	1.51
1	E	263	GLY	CA-C	-7.66	1.39	1.51
1	F	283	GLU	CG-CD	-7.66	1.40	1.51
1	C	256	GLU	CG-CD	-7.66	1.40	1.51
1	C	281	GLU	CG-CD	-7.66	1.40	1.51
1	A	281	GLU	CG-CD	-7.66	1.40	1.51
1	C	263	GLY	CA-C	-7.65	1.39	1.51
1	B	263	GLY	N-CA	-7.65	1.34	1.46
1	E	283	GLU	CG-CD	-7.64	1.40	1.51
1	E	263	GLY	N-CA	-7.64	1.34	1.46
1	B	253	GLY	CA-C	-7.64	1.39	1.51
1	C	263	GLY	N-CA	-7.64	1.34	1.46
1	F	263	GLY	N-CA	-7.64	1.34	1.46
1	A	263	GLY	N-CA	-7.64	1.34	1.46
1	D	263	GLY	N-CA	-7.64	1.34	1.46
1	A	277	PRO	N-CA	-7.63	1.34	1.47
1	B	256	GLU	CG-CD	-7.63	1.40	1.51
1	D	277	PRO	N-CA	-7.63	1.34	1.47
1	A	263	GLY	CA-C	-7.63	1.39	1.51
1	C	277	PRO	N-CA	-7.63	1.34	1.47
1	D	253	GLY	CA-C	-7.63	1.39	1.51
1	E	277	PRO	N-CA	-7.63	1.34	1.47
1	F	256	GLU	CG-CD	-7.63	1.40	1.51
1	E	256	GLU	CG-CD	-7.62	1.40	1.51
1	B	277	PRO	N-CA	-7.62	1.34	1.47
1	C	253	GLY	CA-C	-7.62	1.39	1.51
1	F	253	GLY	CA-C	-7.62	1.39	1.51
1	B	263	GLY	CA-C	-7.62	1.39	1.51
1	A	253	GLY	CA-C	-7.62	1.39	1.51
1	D	263	GLY	CA-C	-7.62	1.39	1.51
1	F	277	PRO	N-CA	-7.61	1.34	1.47
1	F	263	GLY	CA-C	-7.57	1.39	1.51
1	A	261	TYR	CG-CD1	-7.51	1.29	1.39
1	B	261	TYR	CG-CD1	-7.48	1.29	1.39
1	F	261	TYR	CG-CD1	-7.48	1.29	1.39
1	D	261	TYR	CG-CD1	-7.47	1.29	1.39
1	C	261	TYR	CG-CD1	-7.44	1.29	1.39
1	D	261	TYR	CE1-CZ	-7.42	1.28	1.38
1	E	261	TYR	CG-CD1	-7.42	1.29	1.39
1	B	261	TYR	CE1-CZ	-7.42	1.28	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	261	TYR	CE1-CZ	-7.41	1.28	1.38
1	C	261	TYR	CE1-CZ	-7.40	1.28	1.38
1	F	261	TYR	CE1-CZ	-7.40	1.28	1.38
1	E	261	TYR	CE1-CZ	-7.40	1.28	1.38
1	A	285	GLY	CA-C	-7.09	1.40	1.51
1	B	285	GLY	CA-C	-7.07	1.40	1.51
1	C	285	GLY	CA-C	-7.06	1.40	1.51
1	D	285	GLY	CA-C	-7.05	1.40	1.51
1	F	285	GLY	CA-C	-7.04	1.40	1.51
1	E	285	GLY	CA-C	-7.03	1.40	1.51
1	F	261	TYR	CG-CD2	-6.96	1.30	1.39
1	A	261	TYR	CG-CD2	-6.95	1.30	1.39
1	D	261	TYR	CG-CD2	-6.95	1.30	1.39
1	A	248	VAL	CA-CB	-6.93	1.40	1.54
1	C	261	TYR	CG-CD2	-6.93	1.30	1.39
1	C	248	VAL	CA-CB	-6.92	1.40	1.54
1	F	248	VAL	CA-CB	-6.91	1.40	1.54
1	B	261	TYR	CG-CD2	-6.91	1.30	1.39
1	D	248	VAL	CA-CB	-6.91	1.40	1.54
1	E	261	TYR	CG-CD2	-6.89	1.30	1.39
1	B	248	VAL	CA-CB	-6.86	1.40	1.54
1	E	248	VAL	CA-CB	-6.86	1.40	1.54
1	C	274	GLY	CA-C	-6.74	1.41	1.51
1	A	276	VAL	CA-CB	-6.73	1.40	1.54
1	F	276	VAL	CA-CB	-6.72	1.40	1.54
1	B	287	GLU	N-CA	-6.72	1.32	1.46
1	F	287	GLU	N-CA	-6.71	1.32	1.46
1	D	276	VAL	CA-CB	-6.71	1.40	1.54
1	E	276	VAL	CA-CB	-6.71	1.40	1.54
1	B	274	GLY	CA-C	-6.70	1.41	1.51
1	C	287	GLU	N-CA	-6.70	1.32	1.46
1	C	276	VAL	CA-CB	-6.69	1.40	1.54
1	A	287	GLU	N-CA	-6.69	1.32	1.46
1	D	287	GLU	N-CA	-6.69	1.32	1.46
1	F	274	GLY	CA-C	-6.68	1.41	1.51
1	D	280	VAL	CA-CB	-6.68	1.40	1.54
1	E	287	GLU	N-CA	-6.68	1.32	1.46
1	B	276	VAL	CA-CB	-6.68	1.40	1.54
1	E	280	VAL	CA-CB	-6.67	1.40	1.54
1	A	274	GLY	CA-C	-6.66	1.41	1.51
1	D	274	GLY	CA-C	-6.65	1.41	1.51
1	A	280	VAL	CA-CB	-6.64	1.40	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	280	VAL	CA-CB	-6.62	1.40	1.54
1	B	280	VAL	CA-CB	-6.62	1.40	1.54
1	C	261	TYR	CE2-CZ	-6.62	1.29	1.38
1	E	285	GLY	C-O	-6.62	1.13	1.23
1	F	285	GLY	C-O	-6.62	1.13	1.23
1	F	261	TYR	CE2-CZ	-6.62	1.29	1.38
1	E	274	GLY	CA-C	-6.62	1.41	1.51
1	C	280	VAL	CA-CB	-6.61	1.40	1.54
1	D	285	GLY	C-O	-6.61	1.13	1.23
1	C	285	GLY	C-O	-6.61	1.13	1.23
1	E	261	TYR	CE2-CZ	-6.60	1.29	1.38
1	D	261	TYR	CE2-CZ	-6.59	1.29	1.38
1	A	261	TYR	CE2-CZ	-6.58	1.29	1.38
1	C	251	VAL	CA-CB	-6.58	1.41	1.54
1	F	251	VAL	CA-CB	-6.58	1.41	1.54
1	B	251	VAL	CA-CB	-6.58	1.41	1.54
1	E	251	VAL	CA-CB	-6.58	1.41	1.54
1	D	251	VAL	CA-CB	-6.57	1.41	1.54
1	A	285	GLY	C-O	-6.56	1.13	1.23
1	B	285	GLY	C-O	-6.56	1.13	1.23
1	B	261	TYR	CE2-CZ	-6.54	1.30	1.38
1	A	251	VAL	CA-CB	-6.53	1.41	1.54
1	E	247	TYR	CZ-OH	-6.50	1.26	1.37
1	F	246	VAL	CA-CB	-6.50	1.41	1.54
1	C	247	TYR	CZ-OH	-6.49	1.26	1.37
1	B	246	VAL	CA-CB	-6.49	1.41	1.54
1	C	246	VAL	CA-CB	-6.48	1.41	1.54
1	F	247	TYR	CZ-OH	-6.48	1.26	1.37
1	D	268	GLU	N-CA	-6.48	1.33	1.46
1	A	246	VAL	CA-CB	-6.47	1.41	1.54
1	D	246	VAL	CA-CB	-6.47	1.41	1.54
1	B	247	TYR	CZ-OH	-6.47	1.26	1.37
1	C	268	GLU	N-CA	-6.47	1.33	1.46
1	F	268	GLU	N-CA	-6.47	1.33	1.46
1	E	246	VAL	CA-CB	-6.46	1.41	1.54
1	A	247	TYR	CZ-OH	-6.46	1.26	1.37
1	A	268	GLU	N-CA	-6.45	1.33	1.46
1	D	247	TYR	CZ-OH	-6.44	1.26	1.37
1	A	253	GLY	C-O	-6.44	1.13	1.23
1	B	268	GLU	N-CA	-6.44	1.33	1.46
1	E	268	GLU	N-CA	-6.44	1.33	1.46
1	A	263	GLY	C-O	-6.43	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	263	GLY	C-O	-6.43	1.13	1.23
1	A	282	VAL	CA-CB	-6.42	1.41	1.54
1	D	282	VAL	CA-CB	-6.42	1.41	1.54
1	C	253	GLY	C-O	-6.42	1.13	1.23
1	C	282	VAL	CA-CB	-6.42	1.41	1.54
1	F	282	VAL	CA-CB	-6.42	1.41	1.54
1	E	263	GLY	C-O	-6.41	1.13	1.23
1	B	282	VAL	CA-CB	-6.41	1.41	1.54
1	E	282	VAL	CA-CB	-6.41	1.41	1.54
1	A	256	GLU	CA-CB	-6.40	1.39	1.53
1	D	256	GLU	CA-CB	-6.40	1.39	1.53
1	C	256	GLU	CA-CB	-6.40	1.39	1.53
1	D	263	GLY	C-O	-6.40	1.13	1.23
1	E	256	GLU	CA-CB	-6.40	1.39	1.53
1	F	253	GLY	C-O	-6.39	1.13	1.23
1	C	263	GLY	C-O	-6.38	1.13	1.23
1	D	253	GLY	C-O	-6.38	1.13	1.23
1	F	256	GLU	CA-CB	-6.38	1.40	1.53
1	B	263	GLY	C-O	-6.37	1.13	1.23
1	B	253	GLY	C-O	-6.36	1.13	1.23
1	B	256	GLU	CA-CB	-6.36	1.40	1.53
1	F	248	VAL	N-CA	-6.35	1.33	1.46
1	E	253	GLY	C-O	-6.34	1.13	1.23
1	B	248	VAL	N-CA	-6.32	1.33	1.46
1	E	248	VAL	N-CA	-6.32	1.33	1.46
2	G	75	MET	CG-SD	6.32	1.97	1.81
2	J	75	MET	CG-SD	6.32	1.97	1.81
2	I	75	MET	CG-SD	6.31	1.97	1.81
2	L	75	MET	CG-SD	6.31	1.97	1.81
1	A	261	TYR	CZ-OH	-6.30	1.27	1.37
1	D	248	VAL	N-CA	-6.30	1.33	1.46
1	D	261	TYR	CZ-OH	-6.30	1.27	1.37
2	H	75	MET	CG-SD	6.30	1.97	1.81
2	K	75	MET	CG-SD	6.30	1.97	1.81
1	C	248	VAL	N-CA	-6.29	1.33	1.46
1	B	261	TYR	CZ-OH	-6.29	1.27	1.37
1	B	251	VAL	CB-CG2	-6.29	1.39	1.52
1	C	264	ILE	N-CA	-6.29	1.33	1.46
1	E	265	VAL	N-CA	-6.29	1.33	1.46
1	B	265	VAL	N-CA	-6.28	1.33	1.46
1	C	265	VAL	N-CA	-6.28	1.33	1.46
1	E	264	ILE	N-CA	-6.28	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	251	VAL	CB-CG2	-6.26	1.39	1.52
1	D	261	TYR	CD1-CE1	-6.26	1.29	1.39
1	A	248	VAL	N-CA	-6.26	1.33	1.46
1	C	261	TYR	CZ-OH	-6.25	1.27	1.37
1	F	265	VAL	N-CA	-6.25	1.33	1.46
1	E	251	VAL	CB-CG2	-6.25	1.39	1.52
1	A	265	VAL	N-CA	-6.25	1.33	1.46
1	D	265	VAL	N-CA	-6.25	1.33	1.46
1	F	261	TYR	CZ-OH	-6.24	1.27	1.37
1	E	261	TYR	CD1-CE1	-6.24	1.29	1.39
1	F	251	VAL	CB-CG2	-6.24	1.39	1.52
1	C	261	TYR	CD1-CE1	-6.23	1.30	1.39
1	A	264	ILE	N-CA	-6.23	1.33	1.46
1	D	264	ILE	N-CA	-6.23	1.33	1.46
1	F	264	ILE	N-CA	-6.23	1.33	1.46
1	E	271	ASN	N-CA	-6.22	1.33	1.46
1	A	251	VAL	CB-CG2	-6.22	1.39	1.52
1	D	251	VAL	CB-CG2	-6.22	1.39	1.52
1	A	261	TYR	CD1-CE1	-6.21	1.30	1.39
1	E	261	TYR	CZ-OH	-6.21	1.27	1.37
1	F	261	TYR	CD1-CE1	-6.21	1.30	1.39
1	B	264	ILE	N-CA	-6.21	1.33	1.46
1	B	256	GLU	N-CA	-6.21	1.33	1.46
1	D	271	ASN	N-CA	-6.21	1.33	1.46
1	A	271	ASN	N-CA	-6.20	1.33	1.46
1	B	276	VAL	N-CA	-6.20	1.33	1.46
1	B	282	VAL	N-CA	-6.20	1.33	1.46
1	E	282	VAL	N-CA	-6.20	1.33	1.46
1	F	271	ASN	N-CA	-6.20	1.33	1.46
1	B	271	ASN	N-CA	-6.20	1.33	1.46
1	C	282	VAL	N-CA	-6.20	1.33	1.46
1	F	282	VAL	N-CA	-6.20	1.33	1.46
1	E	261	TYR	N-CA	-6.20	1.33	1.46
1	A	282	VAL	N-CA	-6.19	1.33	1.46
1	D	276	VAL	N-CA	-6.19	1.33	1.46
1	E	256	GLU	N-CA	-6.19	1.33	1.46
1	D	282	VAL	N-CA	-6.19	1.33	1.46
1	A	256	GLU	N-CA	-6.18	1.33	1.46
1	A	276	VAL	N-CA	-6.18	1.33	1.46
1	C	271	ASN	N-CA	-6.18	1.33	1.46
1	D	256	GLU	N-CA	-6.18	1.33	1.46
1	B	261	TYR	CD1-CE1	-6.17	1.30	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	276	VAL	N-CA	-6.17	1.34	1.46
1	C	256	GLU	N-CA	-6.17	1.34	1.46
1	F	256	GLU	N-CA	-6.17	1.34	1.46
1	B	261	TYR	N-CA	-6.16	1.34	1.46
1	A	261	TYR	N-CA	-6.16	1.34	1.46
1	F	259	THR	CB-OG1	-6.15	1.30	1.43
1	C	261	TYR	N-CA	-6.14	1.34	1.46
1	F	261	TYR	N-CA	-6.14	1.34	1.46
1	E	262	ASN	N-CA	-6.14	1.34	1.46
1	C	250	ALA	N-CA	-6.14	1.34	1.46
1	E	276	VAL	N-CA	-6.14	1.34	1.46
1	F	250	ALA	N-CA	-6.14	1.34	1.46
1	C	276	VAL	N-CA	-6.13	1.34	1.46
1	B	262	ASN	N-CA	-6.13	1.34	1.46
1	A	251	VAL	CB-CG1	-6.13	1.40	1.52
1	A	259	THR	CB-OG1	-6.13	1.30	1.43
1	D	251	VAL	CB-CG1	-6.13	1.40	1.52
1	D	259	THR	CB-OG1	-6.13	1.30	1.43
1	E	259	THR	CB-OG1	-6.13	1.30	1.43
1	C	262	ASN	N-CA	-6.12	1.34	1.46
1	F	262	ASN	N-CA	-6.12	1.34	1.46
1	C	259	THR	CB-OG1	-6.12	1.31	1.43
1	D	261	TYR	N-CA	-6.12	1.34	1.46
1	E	250	ALA	N-CA	-6.12	1.34	1.46
1	A	262	ASN	N-CA	-6.11	1.34	1.46
1	B	255	LEU	N-CA	-6.11	1.34	1.46
1	D	255	LEU	N-CA	-6.11	1.34	1.46
1	C	255	LEU	N-CA	-6.11	1.34	1.46
1	B	250	ALA	N-CA	-6.10	1.34	1.46
1	F	255	LEU	N-CA	-6.10	1.34	1.46
1	A	260	ALA	N-CA	-6.10	1.34	1.46
1	B	259	THR	CB-OG1	-6.10	1.31	1.43
1	C	275	GLU	N-CA	-6.10	1.34	1.46
1	F	251	VAL	CB-CG1	-6.10	1.40	1.52
1	A	250	ALA	N-CA	-6.09	1.34	1.46
1	C	257	LYS	N-CA	-6.09	1.34	1.46
1	D	250	ALA	N-CA	-6.09	1.34	1.46
1	E	275	GLU	N-CA	-6.09	1.34	1.46
1	A	257	LYS	N-CA	-6.08	1.34	1.46
1	F	245	ALA	N-CA	-6.08	1.34	1.46
1	B	251	VAL	CB-CG1	-6.08	1.40	1.52
1	E	251	VAL	CB-CG1	-6.08	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	247	TYR	CA-CB	-6.08	1.40	1.53
1	B	245	ALA	N-CA	-6.08	1.34	1.46
1	D	262	ASN	N-CA	-6.08	1.34	1.46
1	E	255	LEU	N-CA	-6.08	1.34	1.46
1	A	275	GLU	N-CA	-6.07	1.34	1.46
1	C	251	VAL	CB-CG1	-6.07	1.40	1.52
1	D	247	TYR	CA-CB	-6.07	1.40	1.53
1	C	260	ALA	N-CA	-6.06	1.34	1.46
1	D	275	GLU	N-CA	-6.06	1.34	1.46
1	A	281	GLU	N-CA	-6.06	1.34	1.46
1	D	274	GLY	C-O	-6.06	1.14	1.23
1	D	286	GLU	N-CA	-6.06	1.34	1.46
1	B	260	ALA	N-CA	-6.06	1.34	1.46
1	B	275	GLU	N-CA	-6.06	1.34	1.46
1	E	257	LYS	N-CA	-6.06	1.34	1.46
1	A	247	TYR	CA-CB	-6.06	1.40	1.53
1	F	257	LYS	N-CA	-6.06	1.34	1.46
1	A	255	LEU	N-CA	-6.05	1.34	1.46
1	C	269	GLN	N-CA	-6.05	1.34	1.46
1	D	257	LYS	N-CA	-6.05	1.34	1.46
1	F	275	GLU	N-CA	-6.05	1.34	1.46
1	D	260	ALA	N-CA	-6.05	1.34	1.46
1	B	247	TYR	CA-CB	-6.05	1.40	1.53
1	B	286	GLU	N-CA	-6.05	1.34	1.46
1	E	281	GLU	N-CA	-6.05	1.34	1.46
1	E	260	ALA	N-CA	-6.05	1.34	1.46
1	A	286	GLU	N-CA	-6.05	1.34	1.46
1	C	245	ALA	N-CA	-6.05	1.34	1.46
1	F	260	ALA	N-CA	-6.05	1.34	1.46
1	B	257	LYS	N-CA	-6.04	1.34	1.46
1	D	245	ALA	N-CA	-6.04	1.34	1.46
1	E	245	ALA	N-CA	-6.04	1.34	1.46
1	C	247	TYR	CA-CB	-6.04	1.40	1.53
1	F	247	TYR	CA-CB	-6.04	1.40	1.53
1	E	274	GLY	C-O	-6.03	1.14	1.23
1	A	274	GLY	C-O	-6.03	1.14	1.23
1	F	269	GLN	N-CA	-6.03	1.34	1.46
1	A	245	ALA	N-CA	-6.03	1.34	1.46
1	C	281	GLU	N-CA	-6.03	1.34	1.46
1	C	286	GLU	N-CA	-6.03	1.34	1.46
1	D	281	GLU	N-CA	-6.03	1.34	1.46
1	C	274	GLY	C-O	-6.02	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	269	GLN	N-CA	-6.02	1.34	1.46
1	E	286	GLU	N-CA	-6.02	1.34	1.46
1	C	252	PHE	CG-CD2	-6.02	1.29	1.38
1	C	252	PHE	CA-CB	-6.02	1.40	1.53
1	F	274	GLY	C-O	-6.01	1.14	1.23
1	C	252	PHE	C-N	-6.01	1.22	1.33
1	F	286	GLU	N-CA	-6.01	1.34	1.46
1	B	281	GLU	N-CA	-6.01	1.34	1.46
1	F	252	PHE	C-N	-6.01	1.22	1.33
1	A	257	LYS	CA-CB	-6.01	1.40	1.53
1	D	257	LYS	CA-CB	-6.01	1.40	1.53
1	D	272	ALA	N-CA	-6.00	1.34	1.46
1	B	252	PHE	C-N	-5.99	1.22	1.33
1	B	257	LYS	CA-CB	-5.99	1.40	1.53
1	B	272	ALA	N-CA	-5.99	1.34	1.46
1	C	270	LEU	N-CA	-5.99	1.34	1.46
1	B	252	PHE	CG-CD2	-5.99	1.29	1.38
1	B	269	GLN	N-CA	-5.99	1.34	1.46
1	E	269	GLN	N-CA	-5.99	1.34	1.46
1	A	270	LEU	N-CA	-5.99	1.34	1.46
1	D	270	LEU	N-CA	-5.99	1.34	1.46
1	B	274	GLY	C-O	-5.99	1.14	1.23
1	E	252	PHE	CG-CD2	-5.99	1.29	1.38
1	E	270	LEU	N-CA	-5.99	1.34	1.46
1	F	281	GLU	N-CA	-5.99	1.34	1.46
1	C	257	LYS	CA-CB	-5.98	1.40	1.53
1	F	252	PHE	CA-CB	-5.98	1.40	1.53
1	F	257	LYS	CA-CB	-5.98	1.40	1.53
1	F	270	LEU	N-CA	-5.98	1.34	1.46
1	E	252	PHE	CA-CB	-5.98	1.40	1.53
1	D	252	PHE	CA-CB	-5.98	1.40	1.53
1	A	252	PHE	CA-CB	-5.98	1.40	1.53
1	D	269	GLN	N-CA	-5.98	1.34	1.46
1	A	252	PHE	CG-CD2	-5.97	1.29	1.38
1	D	252	PHE	CG-CD2	-5.97	1.29	1.38
1	F	265	VAL	CA-CB	-5.97	1.42	1.54
1	F	272	ALA	N-CA	-5.97	1.34	1.46
1	C	272	ALA	N-CA	-5.97	1.34	1.46
1	B	247	TYR	N-CA	-5.97	1.34	1.46
1	F	252	PHE	CG-CD2	-5.97	1.29	1.38
1	B	252	PHE	CA-CB	-5.96	1.40	1.53
1	B	281	GLU	CA-CB	-5.96	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	272	ALA	N-CA	-5.96	1.34	1.46
1	A	277	PRO	CA-CB	-5.96	1.41	1.53
1	E	252	PHE	C-N	-5.96	1.22	1.33
1	E	257	LYS	CA-CB	-5.96	1.40	1.53
1	C	247	TYR	N-CA	-5.96	1.34	1.46
1	D	264	ILE	CA-CB	-5.96	1.41	1.54
1	A	264	ILE	CA-CB	-5.96	1.41	1.54
1	C	278	SER	N-CA	-5.96	1.34	1.46
1	B	270	LEU	N-CA	-5.95	1.34	1.46
1	A	252	PHE	C-N	-5.95	1.22	1.33
1	D	252	PHE	C-N	-5.95	1.22	1.33
1	E	247	TYR	N-CA	-5.95	1.34	1.46
1	A	265	VAL	CA-CB	-5.95	1.42	1.54
1	D	265	VAL	CA-CB	-5.95	1.42	1.54
1	F	247	TYR	N-CA	-5.95	1.34	1.46
1	C	277	PRO	CA-CB	-5.95	1.41	1.53
1	F	258	GLN	N-CA	-5.95	1.34	1.46
1	D	247	TYR	N-CA	-5.94	1.34	1.46
1	F	281	GLU	CA-CB	-5.94	1.40	1.53
1	A	266	SER	N-CA	-5.94	1.34	1.46
1	C	265	VAL	CA-CB	-5.94	1.42	1.54
1	A	247	TYR	N-CA	-5.94	1.34	1.46
1	B	273	GLU	CA-CB	-5.94	1.40	1.53
1	E	281	GLU	CA-CB	-5.94	1.40	1.53
1	B	278	SER	N-CA	-5.94	1.34	1.46
1	C	281	GLU	CA-CB	-5.94	1.40	1.53
1	F	277	PRO	CA-CB	-5.94	1.41	1.53
1	B	265	VAL	CA-CB	-5.93	1.42	1.54
1	B	258	GLN	N-CA	-5.93	1.34	1.46
1	C	258	GLN	N-CA	-5.93	1.34	1.46
1	D	277	PRO	CA-CB	-5.93	1.41	1.53
1	E	258	GLN	N-CA	-5.93	1.34	1.46
1	E	277	PRO	CA-CB	-5.93	1.41	1.53
1	A	272	ALA	N-CA	-5.93	1.34	1.46
1	A	281	GLU	CA-CB	-5.93	1.41	1.53
1	B	264	ILE	CA-CB	-5.93	1.41	1.54
1	C	264	ILE	CA-CB	-5.93	1.41	1.54
1	E	284	ALA	C-N	-5.93	1.22	1.33
1	F	266	SER	N-CA	-5.93	1.34	1.46
1	E	278	SER	N-CA	-5.93	1.34	1.46
1	F	278	SER	N-CA	-5.92	1.34	1.46
1	F	284	ALA	C-N	-5.92	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	258	GLN	N-CA	-5.92	1.34	1.46
1	B	284	ALA	CA-CB	-5.92	1.40	1.52
1	D	258	GLN	N-CA	-5.92	1.34	1.46
1	D	283	GLU	N-CA	-5.92	1.34	1.46
1	D	273	GLU	CA-CB	-5.92	1.41	1.53
1	E	265	VAL	CA-CB	-5.92	1.42	1.54
1	E	264	ILE	CA-CB	-5.92	1.41	1.54
1	A	249	LYS	CA-CB	-5.92	1.41	1.53
1	F	264	ILE	CA-CB	-5.92	1.41	1.54
1	B	266	SER	N-CA	-5.91	1.34	1.46
1	C	249	LYS	N-CA	-5.91	1.34	1.46
1	C	273	GLU	CA-CB	-5.91	1.41	1.53
1	E	284	ALA	CA-CB	-5.91	1.40	1.52
1	F	273	GLU	CA-CB	-5.91	1.41	1.53
1	A	273	GLU	CA-CB	-5.91	1.41	1.53
1	B	277	PRO	CA-CB	-5.91	1.41	1.53
1	D	266	SER	N-CA	-5.90	1.34	1.46
1	A	249	LYS	N-CA	-5.90	1.34	1.46
1	A	278	SER	N-CA	-5.90	1.34	1.46
1	B	249	LYS	N-CA	-5.90	1.34	1.46
1	D	249	LYS	CA-CB	-5.90	1.41	1.53
1	D	278	SER	N-CA	-5.90	1.34	1.46
1	C	266	SER	N-CA	-5.90	1.34	1.46
1	D	281	GLU	CA-CB	-5.90	1.41	1.53
1	F	249	LYS	N-CA	-5.90	1.34	1.46
1	C	284	ALA	C-N	-5.90	1.22	1.33
1	F	284	ALA	CA-CB	-5.89	1.40	1.52
1	F	283	GLU	N-CA	-5.89	1.34	1.46
1	B	286	GLU	CA-CB	-5.89	1.41	1.53
1	C	249	LYS	CA-CB	-5.89	1.41	1.53
1	D	249	LYS	N-CA	-5.89	1.34	1.46
1	E	273	GLU	CA-CB	-5.89	1.41	1.53
1	F	286	GLU	CA-CB	-5.89	1.41	1.53
1	B	249	LYS	CA-CB	-5.88	1.41	1.53
1	E	249	LYS	CA-CB	-5.88	1.41	1.53
1	F	249	LYS	CA-CB	-5.88	1.41	1.53
1	B	277	PRO	CA-C	-5.88	1.41	1.52
1	C	275	GLU	CA-CB	-5.88	1.41	1.53
1	D	284	ALA	CA-CB	-5.88	1.40	1.52
1	B	275	GLU	CA-CB	-5.88	1.41	1.53
1	C	283	GLU	N-CA	-5.88	1.34	1.46
1	E	266	SER	N-CA	-5.88	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	275	GLU	CA-CB	-5.88	1.41	1.53
1	E	286	GLU	CA-CB	-5.88	1.41	1.53
1	A	284	ALA	CA-CB	-5.88	1.40	1.52
1	A	275	GLU	CA-CB	-5.88	1.41	1.53
1	E	268	GLU	CB-CG	-5.88	1.41	1.52
1	B	267	PHE	CG-CD2	-5.88	1.29	1.38
1	E	249	LYS	N-CA	-5.88	1.34	1.46
1	E	267	PHE	CG-CD2	-5.88	1.29	1.38
1	F	268	GLU	CB-CG	-5.88	1.41	1.52
1	B	262	ASN	C-N	-5.88	1.22	1.33
1	B	267	PHE	CA-CB	-5.88	1.41	1.53
1	A	268	GLU	CB-CG	-5.87	1.41	1.52
1	A	283	GLU	N-CA	-5.87	1.34	1.46
1	C	284	ALA	CA-CB	-5.87	1.40	1.52
1	B	268	GLU	CB-CG	-5.87	1.41	1.52
1	B	284	ALA	C-N	-5.87	1.22	1.33
1	D	284	ALA	C-N	-5.87	1.22	1.33
1	B	283	GLU	N-CA	-5.87	1.34	1.46
1	C	262	ASN	C-N	-5.86	1.22	1.33
1	C	277	PRO	CA-C	-5.86	1.41	1.52
1	A	275	GLU	CB-CG	-5.86	1.41	1.52
1	D	275	GLU	CA-CB	-5.86	1.41	1.53
1	E	277	PRO	CA-C	-5.86	1.41	1.52
1	F	256	GLU	CB-CG	-5.86	1.41	1.52
1	A	267	PHE	CA-CB	-5.86	1.41	1.53
1	C	267	PHE	CA-CB	-5.86	1.41	1.53
1	E	262	ASN	C-N	-5.86	1.22	1.33
1	F	267	PHE	CA-CB	-5.86	1.41	1.53
1	F	267	PHE	CG-CD2	-5.86	1.29	1.38
1	E	283	GLU	N-CA	-5.86	1.34	1.46
1	D	284	ALA	N-CA	-5.85	1.34	1.46
1	C	286	GLU	CA-CB	-5.85	1.41	1.53
1	D	287	GLU	CA-CB	-5.85	1.41	1.53
1	C	268	GLU	CB-CG	-5.85	1.41	1.52
1	B	256	GLU	CB-CG	-5.85	1.41	1.52
1	B	258	GLN	CA-CB	-5.85	1.41	1.53
1	C	256	GLU	CB-CG	-5.85	1.41	1.52
1	D	252	PHE	N-CA	-5.85	1.34	1.46
1	E	256	GLU	CB-CG	-5.85	1.41	1.52
1	F	275	GLU	CA-CB	-5.84	1.41	1.53
1	B	273	GLU	C-N	-5.84	1.22	1.33
1	E	273	GLU	C-N	-5.84	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	277	PRO	CA-C	-5.84	1.41	1.52
1	C	246	VAL	N-CA	-5.84	1.34	1.46
1	D	286	GLU	CA-CB	-5.84	1.41	1.53
1	C	287	GLU	CA-CB	-5.84	1.41	1.53
1	D	262	ASN	C-N	-5.84	1.22	1.33
1	D	277	PRO	CA-C	-5.84	1.41	1.52
1	E	267	PHE	CA-CB	-5.84	1.41	1.53
1	D	268	GLU	CB-CG	-5.83	1.41	1.52
1	F	246	VAL	N-CA	-5.83	1.34	1.46
1	A	258	GLN	CA-CB	-5.83	1.41	1.53
1	F	287	GLU	CA-CB	-5.83	1.41	1.53
1	A	277	PRO	CA-C	-5.83	1.41	1.52
1	A	252	PHE	N-CA	-5.83	1.34	1.46
1	A	262	ASN	C-N	-5.83	1.22	1.33
1	A	286	GLU	CA-CB	-5.83	1.41	1.53
1	A	256	GLU	CB-CG	-5.83	1.41	1.52
1	A	283	GLU	CB-CG	-5.83	1.41	1.52
1	D	256	GLU	CB-CG	-5.83	1.41	1.52
1	F	283	GLU	CB-CG	-5.83	1.41	1.52
1	F	251	VAL	N-CA	-5.82	1.34	1.46
1	F	252	PHE	N-CA	-5.82	1.34	1.46
1	A	284	ALA	C-N	-5.82	1.22	1.33
1	E	268	GLU	CA-CB	-5.82	1.41	1.53
1	A	287	GLU	CA-CB	-5.82	1.41	1.53
1	A	284	ALA	N-CA	-5.81	1.34	1.46
1	A	286	GLU	CB-CG	-5.81	1.41	1.52
1	B	287	GLU	CA-CB	-5.81	1.41	1.53
1	C	251	VAL	N-CA	-5.81	1.34	1.46
1	D	268	GLU	CA-CB	-5.81	1.41	1.53
1	E	287	GLU	CA-CB	-5.81	1.41	1.53
1	F	262	ASN	C-N	-5.81	1.22	1.33
1	A	251	VAL	N-CA	-5.81	1.34	1.46
1	B	268	GLU	CA-CB	-5.81	1.41	1.53
1	D	267	PHE	CA-CB	-5.81	1.41	1.53
1	D	267	PHE	CG-CD2	-5.81	1.30	1.38
1	B	275	GLU	CB-CG	-5.81	1.41	1.52
1	B	284	ALA	N-CA	-5.81	1.34	1.46
1	E	275	GLU	CB-CG	-5.81	1.41	1.52
1	E	284	ALA	N-CA	-5.81	1.34	1.46
1	B	251	VAL	N-CA	-5.81	1.34	1.46
1	E	251	VAL	N-CA	-5.81	1.34	1.46
1	B	282	VAL	C-O	-5.80	1.12	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	283	GLU	CB-CG	-5.80	1.41	1.52
1	E	258	GLN	CA-CB	-5.80	1.41	1.53
1	E	282	VAL	C-O	-5.80	1.12	1.23
1	F	275	GLU	CB-CG	-5.80	1.41	1.52
1	C	284	ALA	N-CA	-5.80	1.34	1.46
1	D	275	GLU	CB-CG	-5.80	1.41	1.52
1	A	246	VAL	N-CA	-5.80	1.34	1.46
1	C	267	PHE	CG-CD2	-5.80	1.30	1.38
1	C	286	GLU	CB-CG	-5.80	1.41	1.52
1	D	251	VAL	N-CA	-5.80	1.34	1.46
1	D	282	VAL	C-O	-5.80	1.12	1.23
1	E	252	PHE	N-CA	-5.80	1.34	1.46
1	F	284	ALA	N-CA	-5.80	1.34	1.46
1	F	286	GLU	CB-CG	-5.80	1.41	1.52
1	B	283	GLU	CB-CG	-5.80	1.41	1.52
1	C	252	PHE	N-CA	-5.80	1.34	1.46
1	C	275	GLU	CB-CG	-5.80	1.41	1.52
1	C	283	GLU	CB-CG	-5.80	1.41	1.52
1	F	258	GLN	CA-CB	-5.80	1.41	1.53
1	B	246	VAL	N-CA	-5.79	1.34	1.46
1	B	252	PHE	N-CA	-5.79	1.34	1.46
1	A	267	PHE	CG-CD2	-5.79	1.30	1.38
1	C	258	GLN	CA-CB	-5.79	1.41	1.53
1	D	258	GLN	CA-CB	-5.79	1.41	1.53
1	F	282	VAL	C-O	-5.79	1.12	1.23
1	B	269	GLN	C-O	-5.79	1.12	1.23
1	C	268	GLU	CA-CB	-5.79	1.41	1.53
1	E	246	VAL	N-CA	-5.79	1.34	1.46
1	F	268	GLU	CA-CB	-5.79	1.41	1.53
1	A	273	GLU	C-N	-5.78	1.22	1.33
1	D	281	GLU	CB-CG	-5.78	1.41	1.52
1	A	282	VAL	C-O	-5.78	1.12	1.23
1	C	273	GLU	C-N	-5.78	1.22	1.33
1	D	273	GLU	C-N	-5.78	1.22	1.33
1	F	267	PHE	N-CA	-5.78	1.34	1.46
1	F	280	VAL	N-CA	-5.78	1.34	1.46
1	C	287	GLU	CB-CG	-5.78	1.41	1.52
1	D	280	VAL	N-CA	-5.78	1.34	1.46
1	F	287	GLU	CB-CG	-5.78	1.41	1.52
1	E	286	GLU	CB-CG	-5.77	1.41	1.52
1	A	269	GLN	C-O	-5.77	1.12	1.23
1	D	246	VAL	N-CA	-5.77	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	269	GLN	C-O	-5.77	1.12	1.23
1	D	286	GLU	CB-CG	-5.77	1.41	1.52
1	A	267	PHE	N-CA	-5.77	1.34	1.46
1	A	281	GLU	CB-CG	-5.77	1.41	1.52
1	B	280	VAL	N-CA	-5.77	1.34	1.46
1	D	279	ASN	N-CA	-5.77	1.34	1.46
1	E	283	GLU	CB-CG	-5.77	1.41	1.52
1	B	287	GLU	CB-CG	-5.77	1.41	1.52
1	C	282	VAL	C-O	-5.77	1.12	1.23
1	E	287	GLU	CB-CG	-5.77	1.41	1.52
1	F	273	GLU	C-N	-5.77	1.22	1.33
1	A	287	GLU	CB-CG	-5.76	1.41	1.52
1	B	279	ASN	N-CA	-5.76	1.34	1.46
1	E	269	GLN	C-O	-5.76	1.12	1.23
1	E	267	PHE	N-CA	-5.76	1.34	1.46
1	A	268	GLU	CA-CB	-5.76	1.41	1.53
1	C	280	VAL	N-CA	-5.76	1.34	1.46
1	D	287	GLU	CB-CG	-5.76	1.41	1.52
1	C	267	PHE	N-CA	-5.76	1.34	1.46
1	B	267	PHE	N-CA	-5.76	1.34	1.46
1	A	273	GLU	CB-CG	-5.75	1.41	1.52
1	C	273	GLU	CB-CG	-5.75	1.41	1.52
1	F	279	ASN	N-CA	-5.75	1.34	1.46
1	A	280	VAL	N-CA	-5.75	1.34	1.46
1	B	286	GLU	CB-CG	-5.75	1.41	1.52
1	C	269	GLN	CA-CB	-5.74	1.41	1.53
1	F	269	GLN	CA-CB	-5.74	1.41	1.53
1	B	281	GLU	CB-CG	-5.74	1.41	1.52
1	D	267	PHE	N-CA	-5.74	1.34	1.46
1	E	269	GLN	CA-CB	-5.74	1.41	1.53
1	E	279	ASN	N-CA	-5.74	1.34	1.46
1	A	276	VAL	C-N	-5.74	1.23	1.34
1	F	269	GLN	C-O	-5.74	1.12	1.23
1	A	269	GLN	CA-CB	-5.74	1.41	1.53
1	C	269	GLN	C-O	-5.74	1.12	1.23
1	D	269	GLN	CA-CB	-5.74	1.41	1.53
1	E	280	VAL	N-CA	-5.74	1.34	1.46
1	B	269	GLN	CA-CB	-5.73	1.41	1.53
1	A	279	ASN	N-CA	-5.72	1.34	1.46
1	B	273	GLU	CB-CG	-5.72	1.41	1.52
1	C	276	VAL	CB-CG1	-5.72	1.40	1.52
1	E	281	GLU	CB-CG	-5.72	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	254	ASP	N-CA	-5.72	1.34	1.46
1	B	254	ASP	N-CA	-5.72	1.34	1.46
1	C	254	ASP	N-CA	-5.72	1.34	1.46
1	C	265	VAL	CB-CG1	-5.72	1.40	1.52
1	F	254	ASP	N-CA	-5.72	1.34	1.46
1	F	281	GLU	CB-CG	-5.72	1.41	1.52
1	D	252	PHE	CG-CD1	-5.72	1.30	1.38
1	B	276	VAL	C-N	-5.71	1.23	1.34
1	C	276	VAL	C-N	-5.71	1.23	1.34
1	E	273	GLU	CB-CG	-5.71	1.41	1.52
1	F	276	VAL	C-N	-5.71	1.23	1.34
1	F	273	GLU	CB-CG	-5.71	1.41	1.52
1	D	276	VAL	C-N	-5.71	1.23	1.34
1	F	276	VAL	CB-CG1	-5.71	1.40	1.52
1	A	259	THR	N-CA	-5.70	1.34	1.46
1	B	276	VAL	CB-CG1	-5.70	1.40	1.52
1	E	276	VAL	C-N	-5.70	1.23	1.34
1	E	276	VAL	CB-CG1	-5.70	1.40	1.52
1	B	259	THR	N-CA	-5.70	1.34	1.46
1	D	265	VAL	CB-CG1	-5.70	1.40	1.52
1	E	259	THR	N-CA	-5.70	1.34	1.46
1	F	259	THR	N-CA	-5.70	1.34	1.46
1	C	281	GLU	CB-CG	-5.70	1.41	1.52
1	D	254	ASP	N-CA	-5.70	1.34	1.46
1	B	265	VAL	CB-CG1	-5.69	1.40	1.52
1	C	279	ASN	N-CA	-5.69	1.34	1.46
1	E	254	ASP	N-CA	-5.69	1.34	1.46
1	A	273	GLU	N-CA	-5.69	1.34	1.46
1	C	282	VAL	CB-CG2	-5.69	1.41	1.52
1	D	273	GLU	CB-CG	-5.69	1.41	1.52
1	F	282	VAL	CB-CG2	-5.69	1.41	1.52
1	A	283	GLU	CA-CB	-5.69	1.41	1.53
1	F	265	VAL	CB-CG1	-5.69	1.41	1.52
1	A	276	VAL	CB-CG1	-5.68	1.41	1.52
1	E	265	VAL	CB-CG1	-5.68	1.41	1.52
1	C	283	GLU	CA-CB	-5.68	1.41	1.53
1	D	283	GLU	CA-CB	-5.68	1.41	1.53
1	F	283	GLU	CA-CB	-5.67	1.41	1.53
1	D	276	VAL	CB-CG1	-5.67	1.41	1.52
1	E	246	VAL	CB-CG2	-5.67	1.41	1.52
1	B	282	VAL	CB-CG2	-5.67	1.41	1.52
1	C	252	PHE	CG-CD1	-5.67	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	282	VAL	CB-CG2	-5.67	1.41	1.52
1	F	252	PHE	CG-CD1	-5.67	1.30	1.38
1	C	259	THR	N-CA	-5.66	1.35	1.46
1	A	265	VAL	CB-CG1	-5.66	1.41	1.52
1	D	259	THR	N-CA	-5.66	1.35	1.46
1	B	283	GLU	CA-CB	-5.66	1.41	1.53
1	E	283	GLU	CA-CB	-5.66	1.41	1.53
1	A	282	VAL	CB-CG2	-5.66	1.41	1.52
1	D	282	VAL	CB-CG2	-5.66	1.41	1.52
1	E	273	GLU	N-CA	-5.65	1.35	1.46
1	F	273	GLU	N-CA	-5.65	1.35	1.46
1	D	273	GLU	N-CA	-5.64	1.35	1.46
1	E	248	VAL	CB-CG2	-5.64	1.41	1.52
1	D	246	VAL	CB-CG2	-5.63	1.41	1.52
1	B	252	PHE	CG-CD1	-5.63	1.30	1.38
1	E	252	PHE	CG-CD1	-5.63	1.30	1.38
1	C	246	VAL	CB-CG2	-5.63	1.41	1.52
1	E	267	PHE	CG-CD1	-5.63	1.30	1.38
1	F	246	VAL	CB-CG2	-5.63	1.41	1.52
1	B	246	VAL	CB-CG2	-5.62	1.41	1.52
1	A	252	PHE	CG-CD1	-5.62	1.30	1.38
1	A	267	PHE	CG-CD1	-5.62	1.30	1.38
1	A	246	VAL	CB-CG2	-5.62	1.41	1.52
1	B	259	THR	C-O	-5.62	1.12	1.23
1	E	259	THR	C-O	-5.62	1.12	1.23
1	C	273	GLU	N-CA	-5.62	1.35	1.46
1	D	259	THR	C-O	-5.62	1.12	1.23
1	B	267	PHE	CG-CD1	-5.62	1.30	1.38
1	A	248	VAL	CB-CG1	-5.62	1.41	1.52
1	B	273	GLU	N-CA	-5.62	1.35	1.46
1	B	248	VAL	CB-CG2	-5.61	1.41	1.52
1	C	280	VAL	CB-CG1	-5.61	1.41	1.52
1	F	259	THR	C-O	-5.61	1.12	1.23
1	C	248	VAL	CB-CG2	-5.61	1.41	1.52
1	C	267	PHE	CG-CD1	-5.61	1.30	1.38
1	F	267	PHE	CG-CD1	-5.61	1.30	1.38
1	A	251	VAL	C-O	-5.60	1.12	1.23
1	E	251	VAL	C-O	-5.60	1.12	1.23
1	A	259	THR	C-O	-5.60	1.12	1.23
1	A	246	VAL	CB-CG1	-5.59	1.41	1.52
1	B	248	VAL	CB-CG1	-5.59	1.41	1.52
1	E	248	VAL	CB-CG1	-5.59	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	251	VAL	C-O	-5.59	1.12	1.23
1	A	248	VAL	CB-CG2	-5.59	1.41	1.52
1	F	248	VAL	CB-CG2	-5.59	1.41	1.52
1	A	280	VAL	CB-CG2	-5.59	1.41	1.52
1	C	259	THR	C-O	-5.59	1.12	1.23
1	F	251	VAL	C-O	-5.59	1.12	1.23
1	D	280	VAL	CB-CG1	-5.59	1.41	1.52
1	B	246	VAL	CB-CG1	-5.58	1.41	1.52
1	E	246	VAL	CB-CG1	-5.58	1.41	1.52
1	B	280	VAL	CB-CG2	-5.58	1.41	1.52
1	C	246	VAL	CB-CG1	-5.58	1.41	1.52
1	D	267	PHE	CG-CD1	-5.58	1.30	1.38
1	B	257	LYS	C-O	-5.58	1.12	1.23
1	F	246	VAL	CB-CG1	-5.58	1.41	1.52
1	F	280	VAL	CB-CG1	-5.58	1.41	1.52
1	D	246	VAL	CB-CG1	-5.58	1.41	1.52
1	B	251	VAL	C-O	-5.58	1.12	1.23
1	C	280	VAL	CB-CG2	-5.57	1.41	1.52
1	E	280	VAL	CB-CG2	-5.57	1.41	1.52
1	F	280	VAL	CB-CG2	-5.57	1.41	1.52
1	C	248	VAL	CB-CG1	-5.57	1.41	1.52
1	F	248	VAL	CB-CG1	-5.57	1.41	1.52
1	D	248	VAL	CB-CG2	-5.57	1.41	1.52
1	B	280	VAL	CB-CG1	-5.57	1.41	1.52
1	E	280	VAL	CB-CG1	-5.56	1.41	1.52
1	B	282	VAL	CB-CG1	-5.56	1.41	1.52
1	F	270	LEU	CA-CB	-5.56	1.41	1.53
1	C	282	VAL	CB-CG1	-5.56	1.41	1.52
1	D	280	VAL	CB-CG2	-5.56	1.41	1.52
1	A	280	VAL	CB-CG1	-5.56	1.41	1.52
1	C	270	LEU	CA-CB	-5.55	1.41	1.53
1	D	248	VAL	CB-CG1	-5.55	1.41	1.52
1	D	282	VAL	CB-CG1	-5.55	1.41	1.52
1	E	270	LEU	CA-CB	-5.55	1.41	1.53
1	C	251	VAL	C-O	-5.55	1.12	1.23
1	E	282	VAL	CB-CG1	-5.55	1.41	1.52
1	E	261	TYR	C-O	-5.55	1.12	1.23
1	A	282	VAL	CB-CG1	-5.54	1.41	1.52
1	E	257	LYS	C-O	-5.54	1.12	1.23
1	A	270	LEU	CA-CB	-5.54	1.41	1.53
1	B	270	LEU	CA-CB	-5.54	1.41	1.53
1	D	270	LEU	CA-CB	-5.54	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	261	TYR	C-O	-5.54	1.12	1.23
1	C	261	TYR	C-O	-5.54	1.12	1.23
1	F	287	GLU	C-O	-5.54	1.12	1.23
1	F	282	VAL	CB-CG1	-5.53	1.41	1.52
1	B	254	ASP	CA-CB	-5.53	1.41	1.53
1	C	255	LEU	CA-CB	-5.53	1.41	1.53
1	F	261	TYR	C-O	-5.53	1.12	1.23
1	A	254	ASP	CA-CB	-5.52	1.41	1.53
1	F	254	ASP	CA-CB	-5.52	1.41	1.53
1	A	255	LEU	CA-CB	-5.52	1.41	1.53
1	A	261	TYR	C-O	-5.52	1.12	1.23
1	D	261	TYR	C-O	-5.52	1.12	1.23
1	B	255	LEU	CA-CB	-5.52	1.41	1.53
1	E	254	ASP	CA-CB	-5.52	1.41	1.53
1	E	255	LEU	CA-CB	-5.52	1.41	1.53
1	D	257	LYS	C-O	-5.51	1.12	1.23
1	F	255	LEU	CA-CB	-5.51	1.41	1.53
1	D	255	LEU	CA-CB	-5.50	1.41	1.53
1	C	254	ASP	CA-CB	-5.50	1.41	1.53
1	A	257	LYS	C-O	-5.49	1.12	1.23
1	C	257	LYS	C-O	-5.49	1.12	1.23
1	D	254	ASP	CA-CB	-5.49	1.41	1.53
1	D	287	GLU	C-O	-5.49	1.12	1.23
1	F	257	LYS	C-O	-5.49	1.12	1.23
1	C	287	GLU	C-O	-5.49	1.12	1.23
1	F	255	LEU	C-O	-5.49	1.12	1.23
1	E	265	VAL	CB-CG2	-5.48	1.41	1.52
1	A	254	ASP	CB-CG	-5.48	1.40	1.51
1	E	255	LEU	C-O	-5.48	1.12	1.23
1	B	255	LEU	C-O	-5.48	1.12	1.23
1	B	254	ASP	CB-CG	-5.47	1.40	1.51
1	F	252	PHE	C-O	-5.47	1.12	1.23
1	D	255	LEU	C-O	-5.46	1.12	1.23
1	A	255	LEU	C-O	-5.46	1.12	1.23
1	A	265	VAL	CB-CG2	-5.45	1.41	1.52
1	A	252	PHE	C-O	-5.45	1.12	1.23
1	D	252	PHE	C-O	-5.45	1.12	1.23
1	E	254	ASP	CB-CG	-5.45	1.40	1.51
1	F	265	VAL	CB-CG2	-5.45	1.41	1.52
1	B	276	VAL	CB-CG2	-5.45	1.41	1.52
1	E	276	VAL	CB-CG2	-5.45	1.41	1.52
1	C	254	ASP	CB-CG	-5.44	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	252	PHE	C-O	-5.44	1.13	1.23
1	F	254	ASP	CB-CG	-5.44	1.40	1.51
1	B	265	VAL	CB-CG2	-5.44	1.41	1.52
1	D	254	ASP	CB-CG	-5.44	1.40	1.51
1	C	255	LEU	C-O	-5.44	1.13	1.23
1	F	276	VAL	CB-CG2	-5.44	1.41	1.52
2	G	74	MET	CG-SD	5.44	1.95	1.81
2	I	74	MET	CG-SD	5.43	1.95	1.81
2	L	74	MET	CG-SD	5.43	1.95	1.81
2	H	74	MET	CG-SD	5.43	1.95	1.81
2	K	74	MET	CG-SD	5.43	1.95	1.81
1	B	287	GLU	C-O	-5.43	1.13	1.23
1	E	287	GLU	C-O	-5.43	1.13	1.23
1	A	276	VAL	CB-CG2	-5.42	1.41	1.52
1	C	272	ALA	C-O	-5.42	1.13	1.23
1	D	276	VAL	CB-CG2	-5.42	1.41	1.52
1	F	272	ALA	C-O	-5.42	1.13	1.23
1	D	265	VAL	CB-CG2	-5.42	1.41	1.52
1	D	272	ALA	C-O	-5.42	1.13	1.23
1	A	287	GLU	C-O	-5.42	1.13	1.23
1	C	265	VAL	CB-CG2	-5.42	1.41	1.52
1	C	276	VAL	CB-CG2	-5.40	1.41	1.52
2	J	74	MET	CG-SD	5.40	1.95	1.81
1	C	252	PHE	C-O	-5.40	1.13	1.23
1	A	272	ALA	C-O	-5.40	1.13	1.23
1	B	252	PHE	C-O	-5.39	1.13	1.23
1	E	272	ALA	C-O	-5.39	1.13	1.23
1	E	260	ALA	CA-CB	-5.38	1.41	1.52
1	D	265	VAL	C-O	-5.37	1.13	1.23
1	F	265	VAL	C-O	-5.37	1.13	1.23
1	A	260	ALA	CA-CB	-5.36	1.41	1.52
1	B	272	ALA	C-O	-5.36	1.13	1.23
1	E	265	VAL	C-O	-5.36	1.13	1.23
1	C	260	ALA	CA-CB	-5.36	1.41	1.52
1	B	265	VAL	C-O	-5.36	1.13	1.23
1	D	260	ALA	CA-CB	-5.35	1.41	1.52
1	F	260	ALA	CA-CB	-5.34	1.41	1.52
1	D	256	GLU	C-O	-5.33	1.13	1.23
1	B	260	ALA	CA-CB	-5.33	1.41	1.52
1	C	265	VAL	C-O	-5.33	1.13	1.23
1	A	265	VAL	C-O	-5.32	1.13	1.23
1	B	271	ASN	C-O	-5.31	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	256	GLU	C-O	-5.31	1.13	1.23
1	E	271	ASN	C-O	-5.31	1.13	1.23
1	F	248	VAL	C-N	-5.31	1.21	1.34
1	A	248	VAL	C-N	-5.31	1.21	1.34
1	D	248	VAL	C-N	-5.31	1.21	1.34
1	B	248	VAL	C-N	-5.30	1.21	1.34
1	E	245	ALA	CA-CB	-5.30	1.41	1.52
1	E	248	VAL	C-N	-5.30	1.21	1.34
1	C	281	GLU	C-O	-5.30	1.13	1.23
1	F	281	GLU	C-O	-5.30	1.13	1.23
1	B	276	VAL	C-O	-5.30	1.13	1.23
1	E	276	VAL	C-O	-5.30	1.13	1.23
1	E	281	GLU	C-N	-5.30	1.21	1.34
1	E	248	VAL	C-O	-5.29	1.13	1.23
1	B	250	ALA	CA-CB	-5.29	1.41	1.52
1	D	248	VAL	C-O	-5.29	1.13	1.23
1	E	256	GLU	C-O	-5.29	1.13	1.23
1	D	281	GLU	C-O	-5.29	1.13	1.23
1	A	245	ALA	CA-CB	-5.29	1.41	1.52
1	A	281	GLU	C-N	-5.29	1.21	1.34
1	A	256	GLU	C-O	-5.29	1.13	1.23
1	D	271	ASN	C-O	-5.29	1.13	1.23
1	B	256	GLU	C-O	-5.28	1.13	1.23
1	B	284	ALA	C-O	-5.28	1.13	1.23
1	A	248	VAL	C-O	-5.28	1.13	1.23
1	A	284	ALA	C-O	-5.28	1.13	1.23
1	C	248	VAL	C-N	-5.28	1.22	1.34
1	C	248	VAL	C-O	-5.28	1.13	1.23
1	F	248	VAL	C-O	-5.28	1.13	1.23
1	C	245	ALA	CA-CB	-5.28	1.41	1.52
1	A	271	ASN	C-O	-5.27	1.13	1.23
1	C	250	ALA	CA-CB	-5.27	1.41	1.52
1	D	284	ALA	C-O	-5.27	1.13	1.23
1	F	271	ASN	C-O	-5.27	1.13	1.23
1	B	245	ALA	CA-CB	-5.27	1.41	1.52
1	B	281	GLU	C-N	-5.27	1.22	1.34
1	C	250	ALA	C-O	-5.27	1.13	1.23
1	F	256	GLU	C-O	-5.27	1.13	1.23
1	A	281	GLU	C-O	-5.27	1.13	1.23
1	F	250	ALA	CA-CB	-5.27	1.41	1.52
1	A	276	VAL	C-O	-5.27	1.13	1.23
1	D	276	VAL	C-O	-5.27	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	248	VAL	C-O	-5.26	1.13	1.23
1	C	281	GLU	C-N	-5.26	1.22	1.34
1	D	281	GLU	C-N	-5.26	1.22	1.34
1	F	245	ALA	CA-CB	-5.26	1.41	1.52
1	E	250	ALA	CA-CB	-5.26	1.41	1.52
1	F	281	GLU	C-N	-5.26	1.22	1.34
1	D	250	ALA	CA-CB	-5.26	1.41	1.52
1	D	245	ALA	CA-CB	-5.25	1.41	1.52
1	A	250	ALA	CA-CB	-5.25	1.41	1.52
1	F	284	ALA	C-O	-5.24	1.13	1.23
1	B	270	LEU	C-O	-5.24	1.13	1.23
1	D	261	TYR	CA-C	-5.24	1.39	1.52
1	E	270	LEU	C-O	-5.24	1.13	1.23
1	B	281	GLU	C-O	-5.23	1.13	1.23
1	E	261	TYR	CA-C	-5.23	1.39	1.52
1	E	281	GLU	C-O	-5.23	1.13	1.23
1	E	284	ALA	C-O	-5.23	1.13	1.23
1	F	250	ALA	C-O	-5.23	1.13	1.23
1	C	261	TYR	CA-C	-5.23	1.39	1.52
1	C	271	ASN	C-O	-5.23	1.13	1.23
1	C	284	ALA	C-O	-5.23	1.13	1.23
1	C	270	LEU	C-O	-5.22	1.13	1.23
1	F	270	LEU	C-O	-5.22	1.13	1.23
1	A	250	ALA	C-O	-5.22	1.13	1.23
1	B	264	ILE	C-O	-5.22	1.13	1.23
1	D	250	ALA	C-O	-5.22	1.13	1.23
1	F	276	VAL	C-O	-5.22	1.13	1.23
1	B	250	ALA	C-O	-5.22	1.13	1.23
1	E	250	ALA	C-O	-5.22	1.13	1.23
1	C	276	VAL	C-O	-5.22	1.13	1.23
1	D	270	LEU	C-O	-5.22	1.13	1.23
1	A	261	TYR	CA-C	-5.21	1.39	1.52
1	F	261	TYR	CA-C	-5.21	1.39	1.52
1	D	263	GLY	C-N	-5.21	1.22	1.34
1	B	249	LYS	C-O	-5.20	1.13	1.23
1	E	266	SER	C-O	-5.20	1.13	1.23
1	D	266	SER	C-O	-5.20	1.13	1.23
1	E	280	VAL	C-N	-5.20	1.22	1.34
1	F	263	GLY	C-N	-5.20	1.22	1.34
1	B	266	SER	C-O	-5.20	1.13	1.23
1	C	267	PHE	C-O	-5.19	1.13	1.23
1	C	266	SER	C-O	-5.19	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	270	LEU	C-O	-5.19	1.13	1.23
1	B	267	PHE	C-O	-5.19	1.13	1.23
1	A	266	SER	C-O	-5.19	1.13	1.23
1	B	261	TYR	CA-C	-5.19	1.39	1.52
1	C	263	GLY	C-N	-5.19	1.22	1.34
1	C	280	VAL	C-N	-5.19	1.22	1.34
1	D	267	PHE	C-O	-5.18	1.13	1.23
1	B	263	GLY	C-N	-5.18	1.22	1.34
1	E	264	ILE	C-O	-5.18	1.13	1.23
1	F	267	PHE	C-O	-5.18	1.13	1.23
1	A	263	GLY	C-N	-5.18	1.22	1.34
1	C	264	ILE	C-O	-5.18	1.13	1.23
1	A	267	PHE	C-O	-5.17	1.13	1.23
1	E	267	PHE	C-O	-5.17	1.13	1.23
1	A	264	ILE	C-O	-5.17	1.13	1.23
1	D	264	ILE	C-O	-5.17	1.13	1.23
1	D	280	VAL	C-N	-5.17	1.22	1.34
1	E	263	GLY	C-N	-5.17	1.22	1.34
1	E	249	LYS	C-O	-5.17	1.13	1.23
1	E	287	GLU	CA-C	-5.16	1.39	1.52
1	C	283	GLU	C-O	-5.16	1.13	1.23
1	F	266	SER	C-O	-5.16	1.13	1.23
1	F	283	GLU	C-O	-5.16	1.13	1.23
1	A	283	GLU	C-O	-5.15	1.13	1.23
1	A	280	VAL	C-N	-5.15	1.22	1.34
1	B	268	GLU	CA-C	-5.15	1.39	1.52
1	A	268	GLU	CA-C	-5.15	1.39	1.52
1	E	262	ASN	C-O	-5.15	1.13	1.23
1	F	246	VAL	C-O	-5.15	1.13	1.23
1	F	262	ASN	C-O	-5.15	1.13	1.23
1	F	280	VAL	C-N	-5.15	1.22	1.34
1	A	246	VAL	C-O	-5.15	1.13	1.23
1	B	279	ASN	C-N	-5.15	1.22	1.34
1	B	280	VAL	C-N	-5.15	1.22	1.34
1	B	283	GLU	C-O	-5.15	1.13	1.23
1	E	279	ASN	C-N	-5.15	1.22	1.34
1	E	283	GLU	C-O	-5.15	1.13	1.23
1	F	264	ILE	C-O	-5.15	1.13	1.23
1	A	262	ASN	C-O	-5.15	1.13	1.23
1	D	262	ASN	C-O	-5.15	1.13	1.23
1	C	249	LYS	C-O	-5.14	1.13	1.23
1	C	262	ASN	C-O	-5.14	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	272	ALA	CA-CB	-5.14	1.41	1.52
1	F	249	LYS	C-O	-5.14	1.13	1.23
1	E	246	VAL	C-O	-5.14	1.13	1.23
1	A	249	LYS	C-O	-5.14	1.13	1.23
1	B	262	ASN	C-O	-5.14	1.13	1.23
1	D	249	LYS	C-O	-5.14	1.13	1.23
1	D	268	GLU	CA-C	-5.14	1.39	1.52
1	D	261	TYR	CA-CB	-5.13	1.42	1.53
1	E	268	GLU	CA-C	-5.13	1.39	1.52
1	A	279	ASN	C-N	-5.13	1.22	1.34
1	A	272	ALA	CA-CB	-5.13	1.41	1.52
1	B	246	VAL	C-O	-5.13	1.13	1.23
1	A	268	GLU	C-N	-5.13	1.22	1.34
1	B	268	GLU	C-N	-5.13	1.22	1.34
1	C	268	GLU	CA-C	-5.13	1.39	1.52
1	C	279	ASN	C-N	-5.13	1.22	1.34
1	D	268	GLU	C-N	-5.13	1.22	1.34
1	F	268	GLU	CA-C	-5.13	1.39	1.52
1	C	246	VAL	C-O	-5.13	1.13	1.23
1	D	279	ASN	C-N	-5.13	1.22	1.34
1	E	268	GLU	C-N	-5.13	1.22	1.34
1	E	270	LEU	C-N	-5.13	1.22	1.34
1	B	287	GLU	CA-C	-5.12	1.39	1.52
1	C	270	LEU	C-N	-5.12	1.22	1.34
1	F	270	LEU	C-N	-5.12	1.22	1.34
1	F	272	ALA	CA-CB	-5.12	1.41	1.52
1	B	286	GLU	C-O	-5.12	1.13	1.23
1	A	287	GLU	CA-C	-5.12	1.39	1.52
1	B	261	TYR	CA-CB	-5.11	1.42	1.53
1	D	246	VAL	C-N	-5.11	1.22	1.34
1	D	283	GLU	C-O	-5.11	1.13	1.23
1	E	261	TYR	CA-CB	-5.11	1.42	1.53
1	C	268	GLU	C-N	-5.11	1.22	1.34
1	F	261	TYR	CA-CB	-5.11	1.42	1.53
1	F	268	GLU	C-N	-5.11	1.22	1.34
1	D	246	VAL	C-O	-5.11	1.13	1.23
1	E	268	GLU	C-O	-5.11	1.13	1.23
1	C	278	SER	C-O	-5.11	1.13	1.23
1	A	257	LYS	C-N	-5.11	1.22	1.34
1	A	261	TYR	CA-CB	-5.11	1.42	1.53
1	C	268	GLU	C-O	-5.11	1.13	1.23
1	C	272	ALA	CA-CB	-5.11	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	287	GLU	CA-C	-5.11	1.39	1.52
1	D	287	GLU	CA-C	-5.11	1.39	1.52
1	E	246	VAL	C-N	-5.11	1.22	1.34
1	F	287	GLU	CA-C	-5.11	1.39	1.52
1	D	271	ASN	C-N	-5.10	1.22	1.34
1	A	270	LEU	C-N	-5.10	1.22	1.34
1	D	270	LEU	C-N	-5.10	1.22	1.34
1	C	260	ALA	C-N	-5.10	1.22	1.34
1	C	272	ALA	C-N	-5.10	1.22	1.34
1	F	272	ALA	C-N	-5.10	1.22	1.34
1	B	256	GLU	C-N	-5.10	1.22	1.34
1	C	271	ASN	C-N	-5.10	1.22	1.34
1	E	264	ILE	C-N	-5.09	1.22	1.34
1	B	260	ALA	C-N	-5.09	1.22	1.34
1	A	271	ASN	C-N	-5.09	1.22	1.34
1	D	247	TYR	C-O	-5.09	1.13	1.23
1	B	270	LEU	C-N	-5.09	1.22	1.34
1	A	272	ALA	C-N	-5.09	1.22	1.34
1	B	268	GLU	C-O	-5.08	1.13	1.23
1	F	258	GLN	C-O	-5.08	1.13	1.23
1	A	260	ALA	C-N	-5.08	1.22	1.34
1	D	260	ALA	C-N	-5.08	1.22	1.34
1	E	278	SER	C-O	-5.08	1.13	1.23
1	F	260	ALA	C-N	-5.08	1.22	1.34
1	E	256	GLU	C-N	-5.08	1.22	1.34
1	E	286	GLU	C-O	-5.08	1.13	1.23
1	F	264	ILE	C-N	-5.08	1.22	1.34
1	A	246	VAL	C-N	-5.08	1.22	1.34
1	B	272	ALA	CA-CB	-5.08	1.41	1.52
1	C	286	GLU	C-O	-5.08	1.13	1.23
1	F	246	VAL	C-N	-5.08	1.22	1.34
1	F	279	ASN	C-N	-5.08	1.22	1.34
1	F	286	GLU	C-O	-5.08	1.13	1.23
1	B	271	ASN	C-N	-5.08	1.22	1.34
1	C	246	VAL	C-N	-5.08	1.22	1.34
1	C	261	TYR	CA-CB	-5.08	1.42	1.53
1	E	271	ASN	C-N	-5.08	1.22	1.34
1	A	268	GLU	C-O	-5.08	1.13	1.23
1	D	268	GLU	C-O	-5.08	1.13	1.23
1	D	272	ALA	CA-CB	-5.08	1.41	1.52
1	A	264	ILE	C-N	-5.07	1.22	1.34
1	A	278	SER	C-O	-5.07	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	272	ALA	C-N	-5.07	1.22	1.34
1	B	279	ASN	C-O	-5.07	1.13	1.23
1	C	257	LYS	C-N	-5.07	1.22	1.34
1	E	272	ALA	C-N	-5.07	1.22	1.34
1	F	257	LYS	C-N	-5.07	1.22	1.34
1	F	271	ASN	C-N	-5.07	1.22	1.34
1	A	283	GLU	CA-C	-5.07	1.39	1.52
1	D	286	GLU	CA-C	-5.07	1.39	1.52
1	C	264	ILE	C-N	-5.07	1.22	1.34
1	E	286	GLU	CA-C	-5.07	1.39	1.52
1	B	267	PHE	C-N	-5.07	1.22	1.34
1	E	247	TYR	C-O	-5.07	1.13	1.23
1	A	286	GLU	C-O	-5.06	1.13	1.23
1	D	286	GLU	C-O	-5.06	1.13	1.23
1	F	283	GLU	CA-C	-5.06	1.39	1.52
1	C	275	GLU	C-N	-5.06	1.22	1.34
1	D	272	ALA	C-N	-5.06	1.22	1.34
1	E	258	GLN	C-O	-5.06	1.13	1.23
1	E	260	ALA	C-N	-5.06	1.22	1.34
1	B	246	VAL	C-N	-5.06	1.22	1.34
1	B	247	TYR	C-O	-5.06	1.13	1.23
1	C	258	GLN	C-O	-5.06	1.13	1.23
1	A	279	ASN	C-O	-5.06	1.13	1.23
1	C	247	TYR	C-O	-5.06	1.13	1.23
1	C	267	PHE	C-N	-5.06	1.22	1.34
1	F	247	TYR	C-O	-5.06	1.13	1.23
1	F	267	PHE	C-N	-5.06	1.22	1.34
1	E	267	PHE	C-N	-5.06	1.22	1.34
1	F	268	GLU	C-O	-5.06	1.13	1.23
1	A	247	TYR	C-N	-5.05	1.22	1.34
1	A	258	GLN	C-O	-5.05	1.13	1.23
1	D	247	TYR	C-N	-5.05	1.22	1.34
1	D	257	LYS	C-N	-5.05	1.22	1.34
1	B	252	PHE	CA-C	-5.05	1.39	1.52
1	C	286	GLU	CA-C	-5.05	1.39	1.52
1	D	278	SER	C-O	-5.05	1.13	1.23
1	F	286	GLU	CA-C	-5.05	1.39	1.52
1	B	257	LYS	C-N	-5.05	1.22	1.34
1	B	283	GLU	CA-C	-5.05	1.39	1.52
1	C	247	TYR	C-N	-5.05	1.22	1.34
1	E	257	LYS	C-N	-5.05	1.22	1.34
1	F	275	GLU	C-N	-5.05	1.22	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	267	PHE	C-N	-5.05	1.22	1.34
1	A	286	GLU	CA-C	-5.05	1.39	1.52
1	D	267	PHE	C-N	-5.05	1.22	1.34
1	A	252	PHE	CA-C	-5.05	1.39	1.52
1	F	256	GLU	C-N	-5.05	1.22	1.34
1	F	278	SER	C-O	-5.05	1.13	1.23
1	D	258	GLN	C-O	-5.04	1.13	1.23
1	A	256	GLU	C-N	-5.04	1.22	1.34
1	B	258	GLN	C-O	-5.04	1.13	1.23
1	D	279	ASN	C-O	-5.04	1.13	1.23
1	B	264	ILE	C-N	-5.04	1.22	1.34
1	C	256	GLU	C-N	-5.04	1.22	1.34
1	C	283	GLU	CA-C	-5.04	1.39	1.52
1	D	264	ILE	C-N	-5.04	1.22	1.34
1	B	278	SER	C-O	-5.04	1.13	1.23
1	D	283	GLU	CA-C	-5.04	1.39	1.52
1	A	249	LYS	C-N	-5.03	1.22	1.34
1	B	247	TYR	C-N	-5.03	1.22	1.34
1	E	247	TYR	C-N	-5.03	1.22	1.34
1	A	247	TYR	C-O	-5.03	1.13	1.23
1	D	256	GLU	C-N	-5.03	1.22	1.34
1	E	283	GLU	CA-C	-5.03	1.39	1.52
1	D	258	GLN	C-N	-5.03	1.22	1.34
1	E	249	LYS	C-N	-5.03	1.22	1.34
1	F	254	ASP	C-O	-5.03	1.13	1.23
1	C	254	ASP	C-O	-5.02	1.13	1.23
1	E	252	PHE	CA-C	-5.02	1.39	1.52
1	F	279	ASN	C-O	-5.02	1.13	1.23
1	C	252	PHE	CA-C	-5.02	1.39	1.52
1	D	249	LYS	CE-NZ	-5.02	1.36	1.49
1	B	249	LYS	C-N	-5.02	1.22	1.34
1	B	275	GLU	C-N	-5.02	1.22	1.34
1	D	275	GLU	C-N	-5.02	1.22	1.34
1	E	275	GLU	C-N	-5.02	1.22	1.34
1	F	247	TYR	C-N	-5.02	1.22	1.34
1	F	266	SER	C-N	-5.02	1.22	1.34
1	D	249	LYS	C-N	-5.02	1.22	1.34
1	F	249	LYS	CA-C	-5.01	1.40	1.52
1	C	258	GLN	C-N	-5.01	1.22	1.34
1	C	249	LYS	C-N	-5.01	1.22	1.34
1	F	249	LYS	C-N	-5.01	1.22	1.34
1	A	249	LYS	CA-C	-5.01	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	249	LYS	CE-NZ	-5.01	1.36	1.49
1	C	249	LYS	CA-C	-5.01	1.40	1.52
1	D	249	LYS	CA-C	-5.01	1.40	1.52
1	E	265	VAL	C-N	-5.01	1.22	1.34
1	E	279	ASN	C-O	-5.01	1.13	1.23
1	F	258	GLN	C-N	-5.00	1.22	1.34
1	B	266	SER	CA-C	-5.00	1.40	1.52
1	C	249	LYS	CE-NZ	-5.00	1.36	1.49
1	E	266	SER	C-N	-5.00	1.22	1.34
1	F	249	LYS	CE-NZ	-5.00	1.36	1.49
1	B	249	LYS	CE-NZ	-5.00	1.36	1.49
1	B	286	GLU	CA-C	-5.00	1.40	1.52
1	C	266	SER	C-N	-5.00	1.22	1.34
1	C	266	SER	CA-C	-5.00	1.40	1.52
1	C	279	ASN	C-O	-5.00	1.13	1.23
1	E	249	LYS	CE-NZ	-5.00	1.36	1.49

All (624) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	380	ARG	NE-CZ-NH1	-25.49	107.56	120.30
1	A	64	ARG	NE-CZ-NH2	-25.46	107.57	120.30
1	B	64	ARG	NE-CZ-NH2	-25.42	107.59	120.30
1	C	380	ARG	NE-CZ-NH1	-25.41	107.60	120.30
1	F	380	ARG	NE-CZ-NH1	-25.40	107.60	120.30
1	E	64	ARG	NE-CZ-NH2	-25.40	107.60	120.30
1	C	64	ARG	NE-CZ-NH2	-25.37	107.62	120.30
1	B	380	ARG	NE-CZ-NH1	-25.36	107.62	120.30
1	D	560	ARG	NE-CZ-NH1	-25.35	107.62	120.30
1	C	86	ARG	NE-CZ-NH1	-25.35	107.62	120.30
1	A	86	ARG	NE-CZ-NH1	-25.34	107.63	120.30
1	B	135	ARG	NE-CZ-NH1	-25.34	107.63	120.30
1	B	142	ARG	NE-CZ-NH1	-25.33	107.63	120.30
1	F	86	ARG	NE-CZ-NH1	-25.33	107.64	120.30
1	D	64	ARG	NE-CZ-NH2	-25.31	107.64	120.30
1	F	560	ARG	NE-CZ-NH2	-25.31	107.64	120.30
1	B	535	ARG	NE-CZ-NH2	-25.30	107.65	120.30
1	E	560	ARG	NE-CZ-NH2	-25.29	107.65	120.30
1	C	135	ARG	NE-CZ-NH1	-25.29	107.66	120.30
1	B	363	ARG	NE-CZ-NH1	-25.29	107.66	120.30
1	D	380	ARG	NE-CZ-NH1	-25.29	107.66	120.30
1	C	363	ARG	NE-CZ-NH1	-25.28	107.66	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	135	ARG	NE-CZ-NH1	-25.28	107.66	120.30
1	D	86	ARG	NE-CZ-NH1	-25.28	107.66	120.30
1	B	560	ARG	NE-CZ-NH2	-25.27	107.66	120.30
1	E	86	ARG	NE-CZ-NH1	-25.27	107.66	120.30
1	E	135	ARG	NE-CZ-NH1	-25.27	107.67	120.30
1	A	363	ARG	NE-CZ-NH1	-25.27	107.67	120.30
1	D	404	ARG	NE-CZ-NH1	-25.26	107.67	120.30
1	B	538	ARG	NE-CZ-NH2	-25.25	107.67	120.30
1	E	516	ARG	NE-CZ-NH2	-25.25	107.67	120.30
1	E	535	ARG	NE-CZ-NH2	-25.25	107.67	120.30
1	F	64	ARG	NE-CZ-NH2	-25.24	107.68	120.30
1	A	142	ARG	NE-CZ-NH1	-25.24	107.68	120.30
1	A	535	ARG	NE-CZ-NH2	-25.24	107.68	120.30
1	D	538	ARG	NE-CZ-NH2	-25.24	107.68	120.30
1	A	560	ARG	NE-CZ-NH2	-25.24	107.68	120.30
1	D	535	ARG	NE-CZ-NH2	-25.24	107.68	120.30
1	C	535	ARG	NE-CZ-NH2	-25.23	107.69	120.30
1	D	363	ARG	NE-CZ-NH1	-25.23	107.69	120.30
1	F	363	ARG	NE-CZ-NH1	-25.22	107.69	120.30
1	F	436	ARG	NE-CZ-NH1	-25.22	107.69	120.30
1	F	538	ARG	NE-CZ-NH2	-25.22	107.69	120.30
1	A	135	ARG	NE-CZ-NH1	-25.22	107.69	120.30
1	D	135	ARG	NE-CZ-NH1	-25.21	107.69	120.30
1	C	560	ARG	NE-CZ-NH2	-25.21	107.70	120.30
1	E	380	ARG	NE-CZ-NH1	-25.20	107.70	120.30
1	D	464	ARG	NE-CZ-NH1	-25.20	107.70	120.30
1	E	538	ARG	NE-CZ-NH2	-25.20	107.70	120.30
1	F	142	ARG	NE-CZ-NH1	-25.20	107.70	120.30
1	E	560	ARG	NE-CZ-NH1	-25.20	107.70	120.30
1	B	86	ARG	NE-CZ-NH1	-25.20	107.70	120.30
1	B	436	ARG	NE-CZ-NH1	-25.19	107.70	120.30
1	C	560	ARG	NE-CZ-NH1	-25.19	107.70	120.30
1	D	535	ARG	NE-CZ-NH1	-25.19	107.70	120.30
1	E	180	ARG	NE-CZ-NH1	-25.19	107.71	120.30
1	B	516	ARG	NE-CZ-NH1	-25.18	107.71	120.30
1	F	516	ARG	NE-CZ-NH1	-25.18	107.71	120.30
1	F	516	ARG	NE-CZ-NH2	-25.18	107.71	120.30
1	A	61	ARG	NE-CZ-NH2	-25.17	107.71	120.30
1	A	538	ARG	NE-CZ-NH1	-25.17	107.71	120.30
1	B	404	ARG	NE-CZ-NH1	-25.17	107.72	120.30
1	E	363	ARG	NE-CZ-NH1	-25.17	107.72	120.30
1	C	516	ARG	NE-CZ-NH1	-25.17	107.72	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	516	ARG	NE-CZ-NH1	-25.17	107.72	120.30
1	C	404	ARG	NE-CZ-NH1	-25.17	107.72	120.30
1	E	142	ARG	NE-CZ-NH1	-25.16	107.72	120.30
1	F	404	ARG	NE-CZ-NH1	-25.16	107.72	120.30
1	F	464	ARG	NE-CZ-NH2	-25.16	107.72	120.30
1	A	516	ARG	NE-CZ-NH2	-25.16	107.72	120.30
1	C	516	ARG	NE-CZ-NH2	-25.16	107.72	120.30
1	E	61	ARG	NE-CZ-NH2	-25.16	107.72	120.30
1	F	61	ARG	NE-CZ-NH2	-25.16	107.72	120.30
1	C	436	ARG	NE-CZ-NH2	-25.15	107.72	120.30
1	D	135	ARG	NE-CZ-NH2	-25.15	107.72	120.30
1	E	404	ARG	NE-CZ-NH1	-25.15	107.72	120.30
1	E	464	ARG	NE-CZ-NH1	-25.15	107.72	120.30
1	A	133	ARG	NE-CZ-NH1	-25.15	107.72	120.30
1	D	436	ARG	NE-CZ-NH1	-25.15	107.72	120.30
1	A	404	ARG	NE-CZ-NH1	-25.15	107.73	120.30
1	B	133	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	D	560	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	B	535	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	F	535	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	A	464	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	B	464	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	C	538	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	F	380	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	F	404	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	D	142	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	E	363	ARG	NE-CZ-NH2	-25.14	107.73	120.30
1	E	535	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	F	560	ARG	NE-CZ-NH1	-25.14	107.73	120.30
1	B	404	ARG	NE-CZ-NH2	-25.13	107.73	120.30
1	B	560	ARG	NE-CZ-NH1	-25.13	107.74	120.30
1	C	142	ARG	NE-CZ-NH1	-25.12	107.74	120.30
1	A	538	ARG	NE-CZ-NH2	-25.12	107.74	120.30
1	E	380	ARG	NE-CZ-NH2	-25.12	107.74	120.30
1	F	388	ARG	NE-CZ-NH1	-25.12	107.74	120.30
1	F	466	ARG	NE-CZ-NH1	-25.12	107.74	120.30
1	B	180	ARG	NE-CZ-NH1	-25.12	107.74	120.30
1	E	436	ARG	NE-CZ-NH1	-25.12	107.74	120.30
1	A	388	ARG	NE-CZ-NH1	-25.11	107.74	120.30
1	C	464	ARG	NE-CZ-NH2	-25.11	107.74	120.30
1	A	404	ARG	NE-CZ-NH2	-25.11	107.74	120.30
1	C	135	ARG	NE-CZ-NH2	-25.11	107.74	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	538	ARG	NE-CZ-NH1	-25.11	107.74	120.30
1	D	380	ARG	NE-CZ-NH2	-25.11	107.75	120.30
1	F	64	ARG	NE-CZ-NH1	-25.11	107.75	120.30
1	A	135	ARG	NE-CZ-NH2	-25.11	107.75	120.30
1	E	133	ARG	NE-CZ-NH1	-25.11	107.75	120.30
1	E	64	ARG	NE-CZ-NH1	-25.10	107.75	120.30
1	B	61	ARG	NE-CZ-NH2	-25.10	107.75	120.30
1	E	135	ARG	NE-CZ-NH2	-25.10	107.75	120.30
1	A	388	ARG	NE-CZ-NH2	-25.10	107.75	120.30
1	C	535	ARG	NE-CZ-NH1	-25.10	107.75	120.30
1	D	64	ARG	NE-CZ-NH1	-25.10	107.75	120.30
1	C	404	ARG	NE-CZ-NH2	-25.10	107.75	120.30
1	C	133	ARG	NE-CZ-NH2	-25.09	107.75	120.30
1	A	180	ARG	NE-CZ-NH1	-25.09	107.75	120.30
1	A	560	ARG	NE-CZ-NH1	-25.09	107.75	120.30
1	C	436	ARG	NE-CZ-NH1	-25.09	107.76	120.30
1	A	535	ARG	NE-CZ-NH1	-25.09	107.76	120.30
1	A	464	ARG	NE-CZ-NH2	-25.09	107.76	120.30
1	F	535	ARG	NE-CZ-NH1	-25.09	107.76	120.30
1	A	436	ARG	NE-CZ-NH2	-25.08	107.76	120.30
1	E	436	ARG	NE-CZ-NH2	-25.08	107.76	120.30
1	C	464	ARG	NE-CZ-NH1	-25.08	107.76	120.30
1	C	61	ARG	NE-CZ-NH2	-25.08	107.76	120.30
1	B	380	ARG	NE-CZ-NH2	-25.07	107.76	120.30
1	C	54	ARG	NE-CZ-NH1	-25.07	107.77	120.30
1	C	64	ARG	NE-CZ-NH1	-25.07	107.76	120.30
1	D	388	ARG	NE-CZ-NH2	-25.07	107.77	120.30
1	F	54	ARG	NE-CZ-NH1	-25.07	107.77	120.30
1	A	516	ARG	NE-CZ-NH1	-25.07	107.77	120.30
1	B	516	ARG	NE-CZ-NH2	-25.07	107.77	120.30
1	F	86	ARG	NE-CZ-NH2	-25.07	107.77	120.30
1	E	86	ARG	NE-CZ-NH2	-25.06	107.77	120.30
1	F	180	ARG	NE-CZ-NH1	-25.06	107.77	120.30
1	A	64	ARG	NE-CZ-NH1	-25.06	107.77	120.30
1	E	464	ARG	NE-CZ-NH2	-25.06	107.77	120.30
1	B	135	ARG	NE-CZ-NH2	-25.06	107.77	120.30
1	E	538	ARG	NE-CZ-NH1	-25.05	107.77	120.30
1	F	538	ARG	NE-CZ-NH1	-25.05	107.77	120.30
1	F	464	ARG	NE-CZ-NH1	-25.05	107.77	120.30
1	A	380	ARG	NE-CZ-NH2	-25.05	107.78	120.30
1	D	538	ARG	NE-CZ-NH1	-25.05	107.78	120.30
1	C	86	ARG	NE-CZ-NH2	-25.05	107.78	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	61	ARG	NE-CZ-NH2	-25.05	107.78	120.30
1	D	516	ARG	NE-CZ-NH2	-25.05	107.78	120.30
1	C	538	ARG	NE-CZ-NH2	-25.04	107.78	120.30
1	B	436	ARG	NE-CZ-NH2	-25.04	107.78	120.30
1	B	388	ARG	NE-CZ-NH2	-25.04	107.78	120.30
1	E	404	ARG	NE-CZ-NH2	-25.04	107.78	120.30
1	C	466	ARG	NE-CZ-NH1	-25.03	107.78	120.30
1	B	86	ARG	NE-CZ-NH2	-25.03	107.78	120.30
1	A	466	ARG	NE-CZ-NH2	-25.03	107.78	120.30
1	D	180	ARG	NE-CZ-NH1	-25.03	107.78	120.30
1	E	388	ARG	NE-CZ-NH2	-25.03	107.78	120.30
1	D	133	ARG	NE-CZ-NH1	-25.02	107.79	120.30
1	B	466	ARG	NE-CZ-NH2	-25.02	107.79	120.30
1	C	180	ARG	NE-CZ-NH1	-25.02	107.79	120.30
1	D	436	ARG	NE-CZ-NH2	-25.02	107.79	120.30
1	A	436	ARG	NE-CZ-NH1	-25.02	107.79	120.30
1	F	466	ARG	NE-CZ-NH2	-25.02	107.79	120.30
1	B	464	ARG	NE-CZ-NH1	-25.01	107.79	120.30
1	E	466	ARG	NE-CZ-NH2	-25.01	107.79	120.30
1	B	64	ARG	NE-CZ-NH1	-25.01	107.80	120.30
1	A	86	ARG	NE-CZ-NH2	-25.01	107.80	120.30
1	F	133	ARG	NE-CZ-NH2	-25.01	107.80	120.30
1	C	466	ARG	NE-CZ-NH2	-25.01	107.80	120.30
1	E	54	ARG	NE-CZ-NH1	-25.01	107.80	120.30
1	F	388	ARG	NE-CZ-NH2	-25.01	107.80	120.30
1	C	388	ARG	NE-CZ-NH2	-25.00	107.80	120.30
1	E	516	ARG	NE-CZ-NH1	-25.00	107.80	120.30
1	B	466	ARG	NE-CZ-NH1	-25.00	107.80	120.30
1	B	54	ARG	NE-CZ-NH1	-24.99	107.80	120.30
1	B	133	ARG	NE-CZ-NH2	-24.99	107.80	120.30
1	C	380	ARG	NE-CZ-NH2	-24.99	107.80	120.30
1	F	135	ARG	NE-CZ-NH2	-24.99	107.81	120.30
1	B	363	ARG	NE-CZ-NH2	-24.99	107.81	120.30
1	A	363	ARG	NE-CZ-NH2	-24.98	107.81	120.30
1	D	363	ARG	NE-CZ-NH2	-24.98	107.81	120.30
1	D	464	ARG	NE-CZ-NH2	-24.98	107.81	120.30
1	C	61	ARG	NE-CZ-NH1	-24.98	107.81	120.30
1	C	388	ARG	NE-CZ-NH1	-24.98	107.81	120.30
1	D	388	ARG	NE-CZ-NH1	-24.97	107.81	120.30
1	C	363	ARG	NE-CZ-NH2	-24.97	107.81	120.30
1	A	54	ARG	NE-CZ-NH1	-24.97	107.81	120.30
1	D	86	ARG	NE-CZ-NH2	-24.97	107.81	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	388	ARG	NE-CZ-NH1	-24.97	107.82	120.30
1	D	404	ARG	NE-CZ-NH2	-24.97	107.82	120.30
1	F	363	ARG	NE-CZ-NH2	-24.96	107.82	120.30
1	D	133	ARG	NE-CZ-NH2	-24.96	107.82	120.30
1	E	388	ARG	NE-CZ-NH1	-24.96	107.82	120.30
1	F	436	ARG	NE-CZ-NH2	-24.96	107.82	120.30
1	E	133	ARG	NE-CZ-NH2	-24.95	107.83	120.30
1	D	466	ARG	NE-CZ-NH1	-24.95	107.83	120.30
1	D	466	ARG	NE-CZ-NH2	-24.94	107.83	120.30
1	D	54	ARG	NE-CZ-NH2	-24.94	107.83	120.30
1	C	133	ARG	NE-CZ-NH1	-24.93	107.83	120.30
1	C	142	ARG	NE-CZ-NH2	-24.93	107.83	120.30
1	D	61	ARG	NE-CZ-NH1	-24.93	107.83	120.30
1	E	180	ARG	NE-CZ-NH2	-24.93	107.83	120.30
1	F	133	ARG	NE-CZ-NH1	-24.93	107.83	120.30
1	A	466	ARG	NE-CZ-NH1	-24.93	107.83	120.30
1	E	466	ARG	NE-CZ-NH1	-24.93	107.83	120.30
1	B	61	ARG	NE-CZ-NH1	-24.92	107.84	120.30
1	C	54	ARG	NE-CZ-NH2	-24.92	107.84	120.30
1	D	54	ARG	NE-CZ-NH1	-24.92	107.84	120.30
1	F	54	ARG	NE-CZ-NH2	-24.91	107.85	120.30
1	F	180	ARG	NE-CZ-NH2	-24.91	107.85	120.30
1	A	61	ARG	NE-CZ-NH1	-24.90	107.85	120.30
1	C	180	ARG	NE-CZ-NH2	-24.90	107.85	120.30
1	F	61	ARG	NE-CZ-NH1	-24.90	107.85	120.30
1	A	180	ARG	NE-CZ-NH2	-24.88	107.86	120.30
1	D	180	ARG	NE-CZ-NH2	-24.88	107.86	120.30
1	D	142	ARG	NE-CZ-NH2	-24.88	107.86	120.30
1	E	61	ARG	NE-CZ-NH1	-24.87	107.86	120.30
1	A	133	ARG	NE-CZ-NH2	-24.87	107.86	120.30
1	B	54	ARG	NE-CZ-NH2	-24.86	107.87	120.30
1	F	142	ARG	NE-CZ-NH2	-24.85	107.88	120.30
1	B	180	ARG	NE-CZ-NH2	-24.84	107.88	120.30
1	E	142	ARG	NE-CZ-NH2	-24.83	107.88	120.30
1	E	54	ARG	NE-CZ-NH2	-24.82	107.89	120.30
1	A	142	ARG	NE-CZ-NH2	-24.80	107.90	120.30
1	A	54	ARG	NE-CZ-NH2	-24.77	107.91	120.30
1	B	142	ARG	NE-CZ-NH2	-24.75	107.92	120.30
1	A	380	ARG	NH1-CZ-NH2	22.97	144.67	119.40
1	F	380	ARG	NH1-CZ-NH2	22.97	144.67	119.40
1	A	64	ARG	NH1-CZ-NH2	22.96	144.66	119.40
1	E	64	ARG	NH1-CZ-NH2	22.95	144.65	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	560	ARG	NH1-CZ-NH2	22.95	144.65	119.40
1	E	560	ARG	NH1-CZ-NH2	22.95	144.65	119.40
1	F	560	ARG	NH1-CZ-NH2	22.93	144.62	119.40
1	B	535	ARG	NH1-CZ-NH2	22.93	144.62	119.40
1	C	64	ARG	NH1-CZ-NH2	22.93	144.62	119.40
1	B	380	ARG	NH1-CZ-NH2	22.92	144.62	119.40
1	B	64	ARG	NH1-CZ-NH2	22.92	144.62	119.40
1	D	535	ARG	NH1-CZ-NH2	22.92	144.61	119.40
1	D	64	ARG	NH1-CZ-NH2	22.91	144.61	119.40
1	C	135	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	B	135	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	B	560	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	C	86	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	C	380	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	C	560	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	D	380	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	F	86	ARG	NH1-CZ-NH2	22.91	144.60	119.40
1	E	535	ARG	NH1-CZ-NH2	22.90	144.59	119.40
1	E	135	ARG	NH1-CZ-NH2	22.89	144.58	119.40
1	D	135	ARG	NH1-CZ-NH2	22.89	144.58	119.40
1	B	538	ARG	NH1-CZ-NH2	22.89	144.58	119.40
1	F	516	ARG	NH1-CZ-NH2	22.89	144.58	119.40
1	F	64	ARG	NH1-CZ-NH2	22.89	144.58	119.40
1	A	86	ARG	NH1-CZ-NH2	22.89	144.57	119.40
1	E	86	ARG	NH1-CZ-NH2	22.88	144.57	119.40
1	A	535	ARG	NH1-CZ-NH2	22.88	144.56	119.40
1	A	560	ARG	NH1-CZ-NH2	22.88	144.56	119.40
1	C	516	ARG	NH1-CZ-NH2	22.88	144.56	119.40
1	C	535	ARG	NH1-CZ-NH2	22.88	144.56	119.40
1	E	380	ARG	NH1-CZ-NH2	22.88	144.56	119.40
1	A	135	ARG	NH1-CZ-NH2	22.87	144.56	119.40
1	E	363	ARG	NH1-CZ-NH2	22.87	144.55	119.40
1	B	404	ARG	NH1-CZ-NH2	22.86	144.55	119.40
1	F	404	ARG	NH1-CZ-NH2	22.86	144.55	119.40
1	A	538	ARG	NH1-CZ-NH2	22.86	144.55	119.40
1	D	538	ARG	NH1-CZ-NH2	22.86	144.55	119.40
1	B	363	ARG	NH1-CZ-NH2	22.85	144.54	119.40
1	F	135	ARG	NH1-CZ-NH2	22.85	144.53	119.40
1	F	538	ARG	NH1-CZ-NH2	22.85	144.54	119.40
1	C	404	ARG	NH1-CZ-NH2	22.85	144.53	119.40
1	A	404	ARG	NH1-CZ-NH2	22.84	144.53	119.40
1	E	538	ARG	NH1-CZ-NH2	22.84	144.53	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	363	ARG	NH1-CZ-NH2	22.84	144.53	119.40
1	B	516	ARG	NH1-CZ-NH2	22.84	144.53	119.40
1	C	363	ARG	NH1-CZ-NH2	22.84	144.53	119.40
1	E	516	ARG	NH1-CZ-NH2	22.84	144.53	119.40
1	D	86	ARG	NH1-CZ-NH2	22.84	144.52	119.40
1	C	436	ARG	NH1-CZ-NH2	22.84	144.52	119.40
1	B	436	ARG	NH1-CZ-NH2	22.83	144.52	119.40
1	B	86	ARG	NH1-CZ-NH2	22.83	144.51	119.40
1	A	464	ARG	NH1-CZ-NH2	22.83	144.51	119.40
1	A	516	ARG	NH1-CZ-NH2	22.83	144.51	119.40
1	D	404	ARG	NH1-CZ-NH2	22.83	144.51	119.40
1	F	535	ARG	NH1-CZ-NH2	22.83	144.51	119.40
1	A	388	ARG	NH1-CZ-NH2	22.82	144.51	119.40
1	F	464	ARG	NH1-CZ-NH2	22.82	144.51	119.40
1	D	363	ARG	NH1-CZ-NH2	22.82	144.50	119.40
1	D	516	ARG	NH1-CZ-NH2	22.82	144.51	119.40
1	E	464	ARG	NH1-CZ-NH2	22.82	144.50	119.40
1	E	436	ARG	NH1-CZ-NH2	22.82	144.50	119.40
1	C	464	ARG	NH1-CZ-NH2	22.82	144.50	119.40
1	D	464	ARG	NH1-CZ-NH2	22.81	144.49	119.40
1	E	404	ARG	NH1-CZ-NH2	22.81	144.49	119.40
1	F	363	ARG	NH1-CZ-NH2	22.81	144.49	119.40
1	C	538	ARG	NH1-CZ-NH2	22.81	144.49	119.40
1	F	436	ARG	NH1-CZ-NH2	22.81	144.49	119.40
1	D	436	ARG	NH1-CZ-NH2	22.80	144.48	119.40
1	B	464	ARG	NH1-CZ-NH2	22.80	144.47	119.40
1	B	133	ARG	NH1-CZ-NH2	22.79	144.47	119.40
1	F	466	ARG	NH1-CZ-NH2	22.79	144.47	119.40
1	F	388	ARG	NH1-CZ-NH2	22.79	144.46	119.40
1	E	180	ARG	NH1-CZ-NH2	22.78	144.46	119.40
1	A	436	ARG	NH1-CZ-NH2	22.77	144.45	119.40
1	B	142	ARG	NH1-CZ-NH2	22.76	144.44	119.40
1	A	61	ARG	NH1-CZ-NH2	22.76	144.44	119.40
1	C	142	ARG	NH1-CZ-NH2	22.75	144.43	119.40
1	C	61	ARG	NH1-CZ-NH2	22.75	144.43	119.40
1	E	133	ARG	NH1-CZ-NH2	22.75	144.43	119.40
1	F	61	ARG	NH1-CZ-NH2	22.75	144.43	119.40
1	A	142	ARG	NH1-CZ-NH2	22.75	144.42	119.40
1	F	142	ARG	NH1-CZ-NH2	22.75	144.42	119.40
1	C	466	ARG	NH1-CZ-NH2	22.75	144.42	119.40
1	D	388	ARG	NH1-CZ-NH2	22.75	144.42	119.40
1	E	61	ARG	NH1-CZ-NH2	22.74	144.42	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	133	ARG	NH1-CZ-NH2	22.74	144.41	119.40
1	A	133	ARG	NH1-CZ-NH2	22.74	144.41	119.40
1	B	61	ARG	NH1-CZ-NH2	22.74	144.41	119.40
1	B	466	ARG	NH1-CZ-NH2	22.74	144.41	119.40
1	D	142	ARG	NH1-CZ-NH2	22.73	144.41	119.40
1	B	388	ARG	NH1-CZ-NH2	22.73	144.40	119.40
1	E	142	ARG	NH1-CZ-NH2	22.73	144.40	119.40
1	C	54	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	E	388	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	D	133	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	C	388	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	D	61	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	F	54	ARG	NH1-CZ-NH2	22.72	144.39	119.40
1	A	180	ARG	NH1-CZ-NH2	22.71	144.39	119.40
1	F	180	ARG	NH1-CZ-NH2	22.71	144.38	119.40
1	A	466	ARG	NH1-CZ-NH2	22.71	144.38	119.40
1	B	180	ARG	NH1-CZ-NH2	22.71	144.38	119.40
1	E	466	ARG	NH1-CZ-NH2	22.70	144.37	119.40
1	F	133	ARG	NH1-CZ-NH2	22.70	144.37	119.40
1	C	180	ARG	NH1-CZ-NH2	22.69	144.36	119.40
1	D	180	ARG	NH1-CZ-NH2	22.69	144.36	119.40
1	D	466	ARG	NH1-CZ-NH2	22.68	144.34	119.40
1	D	54	ARG	NH1-CZ-NH2	22.66	144.33	119.40
1	B	54	ARG	NH1-CZ-NH2	22.66	144.33	119.40
1	E	54	ARG	NH1-CZ-NH2	22.65	144.31	119.40
1	A	54	ARG	NH1-CZ-NH2	22.61	144.27	119.40
1	A	408	VAL	C-N-CD	-20.97	74.47	120.60
1	E	408	VAL	C-N-CD	-20.97	74.47	120.60
1	F	408	VAL	C-N-CD	-20.96	74.50	120.60
1	B	408	VAL	C-N-CD	-20.95	74.51	120.60
1	C	408	VAL	C-N-CD	-20.95	74.52	120.60
1	D	408	VAL	C-N-CD	-20.95	74.52	120.60
1	D	64	ARG	N-CA-C	17.38	157.94	111.00
1	C	64	ARG	N-CA-C	17.38	157.92	111.00
1	F	64	ARG	N-CA-C	17.38	157.92	111.00
1	B	64	ARG	N-CA-C	17.36	157.87	111.00
1	E	64	ARG	N-CA-C	17.36	157.87	111.00
1	A	64	ARG	N-CA-C	17.34	157.83	111.00
1	C	65	SER	N-CA-CB	-13.65	90.03	110.50
1	B	65	SER	N-CA-CB	-13.63	90.06	110.50
1	F	65	SER	N-CA-CB	-13.62	90.06	110.50
1	D	65	SER	N-CA-CB	-13.62	90.07	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	65	SER	N-CA-CB	-13.62	90.07	110.50
1	A	65	SER	N-CA-CB	-13.62	90.07	110.50
1	F	366	VAL	CB-CA-C	-10.52	91.42	111.40
1	C	366	VAL	CB-CA-C	-10.51	91.44	111.40
1	A	277	PRO	CA-N-CD	-10.50	96.80	111.50
1	D	366	VAL	CB-CA-C	-10.49	91.46	111.40
1	A	366	VAL	CB-CA-C	-10.49	91.48	111.40
1	D	277	PRO	CA-N-CD	-10.48	96.83	111.50
1	B	366	VAL	CB-CA-C	-10.45	91.54	111.40
1	E	366	VAL	CB-CA-C	-10.45	91.54	111.40
1	F	277	PRO	CA-N-CD	-10.45	96.86	111.50
1	E	277	PRO	CA-N-CD	-10.45	96.87	111.50
1	B	277	PRO	CA-N-CD	-10.45	96.87	111.50
1	C	277	PRO	CA-N-CD	-10.44	96.89	111.50
1	A	328	ALA	CB-CA-C	9.93	124.99	110.10
1	C	328	ALA	CB-CA-C	9.92	124.98	110.10
1	B	328	ALA	CB-CA-C	9.92	124.98	110.10
1	F	328	ALA	CB-CA-C	9.92	124.98	110.10
1	E	328	ALA	CB-CA-C	9.91	124.96	110.10
1	D	328	ALA	CB-CA-C	9.90	124.95	110.10
1	B	364	ALA	N-CA-C	-9.70	84.81	111.00
1	E	364	ALA	N-CA-C	-9.70	84.81	111.00
1	A	364	ALA	N-CA-C	-9.70	84.83	111.00
1	C	364	ALA	N-CA-C	-9.70	84.82	111.00
1	F	364	ALA	N-CA-C	-9.70	84.82	111.00
1	D	364	ALA	N-CA-C	-9.69	84.84	111.00
1	A	115	VAL	N-CA-C	9.55	136.79	111.00
1	B	115	VAL	N-CA-C	9.54	136.77	111.00
1	C	115	VAL	N-CA-C	9.54	136.76	111.00
1	D	115	VAL	N-CA-C	9.53	136.74	111.00
1	F	115	VAL	N-CA-C	9.53	136.72	111.00
1	E	115	VAL	N-CA-C	9.52	136.71	111.00
1	A	329	HIS	N-CA-CB	-9.04	94.32	110.60
1	C	329	HIS	N-CA-CB	-9.04	94.33	110.60
1	B	329	HIS	N-CA-CB	-9.03	94.35	110.60
1	E	329	HIS	N-CA-CB	-9.03	94.35	110.60
1	D	329	HIS	N-CA-CB	-9.01	94.38	110.60
1	F	329	HIS	N-CA-CB	-9.01	94.38	110.60
1	D	387	PRO	CA-N-CD	-8.57	99.50	111.50
1	A	387	PRO	CA-N-CD	-8.56	99.52	111.50
1	E	387	PRO	CA-N-CD	-8.54	99.54	111.50
1	B	387	PRO	CA-N-CD	-8.54	99.55	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	387	PRO	CA-N-CD	-8.53	99.56	111.50
1	C	387	PRO	CA-N-CD	-8.51	99.58	111.50
1	F	546	PRO	CA-N-CD	-8.50	99.60	111.50
1	E	546	PRO	CA-N-CD	-8.48	99.63	111.50
1	D	546	PRO	CA-N-CD	-8.47	99.64	111.50
1	A	546	PRO	CA-N-CD	-8.46	99.65	111.50
1	C	546	PRO	CA-N-CD	-8.46	99.65	111.50
1	B	546	PRO	CA-N-CD	-8.44	99.69	111.50
1	D	546	PRO	N-CD-CG	-8.39	90.61	103.20
1	E	546	PRO	N-CD-CG	-8.38	90.62	103.20
1	A	546	PRO	N-CD-CG	-8.38	90.63	103.20
1	C	546	PRO	N-CD-CG	-8.38	90.64	103.20
1	B	546	PRO	N-CD-CG	-8.37	90.64	103.20
1	F	546	PRO	N-CD-CG	-8.36	90.67	103.20
1	F	434	PRO	CA-N-CD	-8.35	99.81	111.50
1	E	434	PRO	CA-N-CD	-8.35	99.81	111.50
1	D	434	PRO	CA-N-CD	-8.34	99.82	111.50
1	C	434	PRO	CA-N-CD	-8.33	99.83	111.50
1	A	409	PRO	N-CD-CG	-8.33	90.70	103.20
1	F	409	PRO	N-CD-CG	-8.33	90.70	103.20
1	B	434	PRO	CA-N-CD	-8.32	99.85	111.50
1	E	409	PRO	N-CD-CG	-8.32	90.72	103.20
1	C	409	PRO	N-CD-CG	-8.31	90.73	103.20
1	A	434	PRO	CA-N-CD	-8.31	99.86	111.50
1	D	409	PRO	N-CD-CG	-8.31	90.73	103.20
1	B	409	PRO	N-CD-CG	-8.30	90.75	103.20
1	F	546	PRO	N-CA-CB	8.22	113.17	103.30
1	D	546	PRO	N-CA-CB	8.22	113.17	103.30
1	E	546	PRO	N-CA-CB	8.21	113.15	103.30
1	C	546	PRO	N-CA-CB	8.21	113.15	103.30
1	A	546	PRO	N-CA-CB	8.19	113.13	103.30
1	B	546	PRO	N-CA-CB	8.16	113.09	103.30
1	A	361	PRO	CA-N-CD	-7.95	100.37	111.50
1	C	361	PRO	CA-N-CD	-7.94	100.38	111.50
1	E	361	PRO	CA-N-CD	-7.93	100.39	111.50
1	D	361	PRO	CA-N-CD	-7.93	100.40	111.50
1	F	361	PRO	CA-N-CD	-7.92	100.41	111.50
1	B	361	PRO	CA-N-CD	-7.92	100.41	111.50
1	D	80	PRO	N-CD-CG	-7.79	91.52	103.20
1	E	80	PRO	N-CD-CG	-7.76	91.56	103.20
1	B	80	PRO	N-CD-CG	-7.75	91.57	103.20
1	C	80	PRO	N-CD-CG	-7.75	91.58	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	80	PRO	N-CD-CG	-7.75	91.58	103.20
1	F	80	PRO	N-CD-CG	-7.75	91.58	103.20
1	B	80	PRO	CA-N-CD	-7.59	100.88	111.50
1	A	115	VAL	CB-CA-C	-7.59	96.98	111.40
1	B	337	PRO	N-CD-CG	-7.58	91.83	103.20
1	E	337	PRO	N-CD-CG	-7.58	91.83	103.20
1	F	337	PRO	N-CD-CG	-7.58	91.83	103.20
1	A	80	PRO	CA-N-CD	-7.57	100.90	111.50
1	E	80	PRO	CA-N-CD	-7.57	100.90	111.50
1	A	337	PRO	N-CD-CG	-7.57	91.84	103.20
1	C	337	PRO	N-CD-CG	-7.57	91.85	103.20
1	C	115	VAL	CB-CA-C	-7.57	97.02	111.40
1	F	115	VAL	CB-CA-C	-7.57	97.02	111.40
1	D	337	PRO	N-CD-CG	-7.57	91.85	103.20
1	C	80	PRO	CA-N-CD	-7.56	100.91	111.50
1	D	115	VAL	CB-CA-C	-7.56	97.03	111.40
1	E	363	ARG	N-CA-C	-7.56	90.58	111.00
1	F	80	PRO	CA-N-CD	-7.56	100.91	111.50
1	E	115	VAL	CB-CA-C	-7.56	97.04	111.40
1	D	80	PRO	CA-N-CD	-7.56	100.92	111.50
1	B	115	VAL	CB-CA-C	-7.56	97.04	111.40
1	F	363	ARG	N-CA-C	-7.55	90.61	111.00
1	D	64	ARG	N-CA-CB	-7.55	97.01	110.60
1	D	363	ARG	N-CA-C	-7.55	90.61	111.00
1	C	363	ARG	N-CA-C	-7.54	90.63	111.00
1	A	363	ARG	N-CA-C	-7.54	90.64	111.00
1	A	64	ARG	N-CA-CB	-7.53	97.05	110.60
1	B	363	ARG	N-CA-C	-7.53	90.67	111.00
1	B	64	ARG	N-CA-CB	-7.52	97.06	110.60
1	E	64	ARG	N-CA-CB	-7.52	97.06	110.60
1	C	64	ARG	N-CA-CB	-7.52	97.06	110.60
1	F	64	ARG	N-CA-CB	-7.51	97.08	110.60
1	E	434	PRO	N-CA-CB	7.43	112.22	103.30
1	F	434	PRO	N-CA-CB	7.42	112.21	103.30
1	B	434	PRO	N-CA-CB	7.41	112.19	103.30
1	A	434	PRO	N-CA-CB	7.41	112.19	103.30
1	C	434	PRO	N-CA-CB	7.41	112.19	103.30
1	D	434	PRO	N-CA-CB	7.39	112.17	103.30
1	C	364	ALA	N-CA-CB	7.32	120.35	110.10
1	A	364	ALA	N-CA-CB	7.30	120.33	110.10
1	B	364	ALA	N-CA-CB	7.30	120.33	110.10
1	A	277	PRO	N-CA-CB	7.29	112.05	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	364	ALA	N-CA-CB	7.29	120.31	110.10
1	F	364	ALA	N-CA-CB	7.29	120.31	110.10
1	A	47	PRO	CA-N-CD	-7.28	101.31	111.50
1	E	364	ALA	N-CA-CB	7.28	120.29	110.10
1	D	277	PRO	N-CA-CB	7.27	112.03	103.30
1	A	361	PRO	N-CD-CG	-7.26	92.31	103.20
1	E	47	PRO	CA-N-CD	-7.25	101.34	111.50
1	B	47	PRO	CA-N-CD	-7.25	101.36	111.50
1	B	361	PRO	N-CD-CG	-7.25	92.33	103.20
1	D	47	PRO	CA-N-CD	-7.25	101.36	111.50
1	E	361	PRO	N-CD-CG	-7.25	92.33	103.20
1	F	277	PRO	N-CA-CB	7.25	112.00	103.30
1	D	361	PRO	N-CD-CG	-7.24	92.34	103.20
1	C	277	PRO	N-CA-CB	7.24	111.98	103.30
1	F	47	PRO	CA-N-CD	-7.23	101.37	111.50
1	C	47	PRO	CA-N-CD	-7.23	101.38	111.50
1	F	361	PRO	N-CD-CG	-7.23	92.36	103.20
1	E	277	PRO	N-CA-CB	7.22	111.96	103.30
1	C	361	PRO	N-CD-CG	-7.22	92.37	103.20
1	B	277	PRO	N-CA-CB	7.21	111.95	103.30
1	A	434	PRO	N-CD-CG	-7.21	92.39	103.20
1	B	434	PRO	N-CD-CG	-7.19	92.42	103.20
1	D	434	PRO	N-CD-CG	-7.16	92.46	103.20
1	E	434	PRO	N-CD-CG	-7.16	92.46	103.20
1	F	434	PRO	N-CD-CG	-7.15	92.47	103.20
1	C	434	PRO	N-CD-CG	-7.15	92.48	103.20
1	E	277	PRO	N-CD-CG	-7.11	92.53	103.20
1	B	277	PRO	N-CD-CG	-7.10	92.56	103.20
1	D	114	ASN	CB-CA-C	7.09	124.58	110.40
1	C	277	PRO	N-CD-CG	-7.09	92.57	103.20
1	D	277	PRO	N-CD-CG	-7.09	92.57	103.20
1	A	114	ASN	CB-CA-C	7.08	124.57	110.40
1	A	277	PRO	N-CD-CG	-7.07	92.60	103.20
1	E	114	ASN	CB-CA-C	7.07	124.54	110.40
1	F	277	PRO	N-CD-CG	-7.06	92.60	103.20
1	B	114	ASN	CB-CA-C	7.06	124.52	110.40
1	F	114	ASN	CB-CA-C	7.05	124.51	110.40
1	C	114	ASN	CB-CA-C	7.05	124.51	110.40
1	A	80	PRO	N-CA-CB	7.01	111.71	103.30
1	D	80	PRO	N-CA-CB	6.99	111.69	103.30
1	B	80	PRO	N-CA-CB	6.99	111.68	103.30
1	C	64	ARG	CB-CA-C	-6.98	96.44	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	80	PRO	N-CA-CB	6.97	111.66	103.30
1	F	64	ARG	CB-CA-C	-6.96	96.47	110.40
1	A	64	ARG	CB-CA-C	-6.96	96.49	110.40
1	B	64	ARG	CB-CA-C	-6.96	96.49	110.40
1	E	64	ARG	CB-CA-C	-6.96	96.49	110.40
1	D	64	ARG	CB-CA-C	-6.94	96.51	110.40
1	C	80	PRO	N-CA-CB	6.93	111.62	103.30
1	F	80	PRO	N-CA-CB	6.93	111.62	103.30
1	C	387	PRO	N-CD-CG	-6.88	92.89	103.20
1	F	387	PRO	N-CD-CG	-6.88	92.89	103.20
1	B	387	PRO	N-CD-CG	-6.85	92.92	103.20
1	E	387	PRO	N-CD-CG	-6.84	92.93	103.20
1	A	387	PRO	N-CD-CG	-6.84	92.94	103.20
1	D	387	PRO	N-CD-CG	-6.83	92.96	103.20
1	C	337	PRO	CA-N-CD	-6.79	102.00	111.50
1	F	337	PRO	CA-N-CD	-6.78	102.01	111.50
1	A	337	PRO	CA-N-CD	-6.76	102.03	111.50
1	D	337	PRO	CA-N-CD	-6.76	102.04	111.50
1	E	337	PRO	CA-N-CD	-6.75	102.05	111.50
1	A	361	PRO	N-CA-CB	6.74	111.38	103.30
1	D	387	PRO	N-CA-CB	6.73	111.38	103.30
1	A	387	PRO	N-CA-CB	6.72	111.37	103.30
1	B	337	PRO	CA-N-CD	-6.72	102.09	111.50
1	E	361	PRO	N-CA-CB	6.71	111.36	103.30
1	C	361	PRO	N-CA-CB	6.71	111.35	103.30
1	D	361	PRO	N-CA-CB	6.70	111.34	103.30
1	B	387	PRO	N-CA-CB	6.70	111.34	103.30
1	B	361	PRO	N-CA-CB	6.70	111.34	103.30
1	F	387	PRO	N-CA-CB	6.70	111.33	103.30
1	F	361	PRO	N-CA-CB	6.69	111.33	103.30
1	E	387	PRO	N-CA-CB	6.69	111.33	103.30
1	F	47	PRO	N-CD-CG	-6.69	93.17	103.20
1	B	47	PRO	N-CD-CG	-6.68	93.18	103.20
1	E	47	PRO	N-CD-CG	-6.68	93.19	103.20
1	C	387	PRO	N-CA-CB	6.67	111.31	103.30
1	D	47	PRO	N-CD-CG	-6.67	93.20	103.20
1	A	47	PRO	N-CD-CG	-6.66	93.20	103.20
1	C	47	PRO	N-CD-CG	-6.66	93.21	103.20
1	A	363	ARG	CB-CA-C	6.43	123.26	110.40
1	E	363	ARG	CB-CA-C	6.43	123.25	110.40
1	B	363	ARG	CB-CA-C	6.42	123.24	110.40
1	C	363	ARG	CB-CA-C	6.42	123.23	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	363	ARG	CB-CA-C	6.42	123.23	110.40
1	F	363	ARG	CB-CA-C	6.41	123.22	110.40
1	D	360	GLU	C-N-CD	-6.24	106.88	120.60
1	B	360	GLU	C-N-CD	-6.22	106.91	120.60
1	E	360	GLU	C-N-CD	-6.22	106.91	120.60
1	C	360	GLU	C-N-CD	-6.22	106.92	120.60
1	F	360	GLU	C-N-CD	-6.21	106.93	120.60
1	A	360	GLU	C-N-CD	-6.21	106.94	120.60
1	C	337	PRO	N-CA-CB	5.80	110.26	103.30
1	F	337	PRO	N-CA-CB	5.79	110.25	103.30
1	A	337	PRO	N-CA-CB	5.75	110.20	103.30
1	D	337	PRO	N-CA-CB	5.75	110.20	103.30
1	E	337	PRO	N-CA-CB	5.74	110.19	103.30
1	B	337	PRO	N-CA-CB	5.71	110.15	103.30
1	A	47	PRO	N-CA-CB	5.65	110.08	103.30
1	E	47	PRO	N-CA-CB	5.62	110.05	103.30
1	D	47	PRO	N-CA-CB	5.62	110.04	103.30
1	B	47	PRO	N-CA-CB	5.61	110.04	103.30
1	F	47	PRO	N-CA-CB	5.61	110.03	103.30
1	C	47	PRO	N-CA-CB	5.60	110.02	103.30
1	C	365	ILE	N-CA-C	-5.33	96.61	111.00
1	A	190	VAL	N-CA-CB	-5.32	99.79	111.50
1	E	190	VAL	N-CA-CB	-5.32	99.79	111.50
1	B	365	ILE	N-CA-C	-5.32	96.64	111.00
1	F	365	ILE	N-CA-C	-5.31	96.65	111.00
1	B	190	VAL	N-CA-CB	-5.31	99.82	111.50
1	C	190	VAL	N-CA-CB	-5.30	99.84	111.50
1	E	365	ILE	N-CA-C	-5.30	96.69	111.00
1	A	365	ILE	N-CA-C	-5.30	96.69	111.00
1	D	365	ILE	N-CA-C	-5.30	96.69	111.00
1	F	190	VAL	N-CA-CB	-5.29	99.86	111.50
1	D	190	VAL	N-CA-CB	-5.29	99.87	111.50
1	C	191	LYS	N-CA-C	5.25	125.18	111.00
1	D	191	LYS	N-CA-C	5.24	125.14	111.00
1	A	191	LYS	N-CA-C	5.24	125.14	111.00
1	F	191	LYS	N-CA-C	5.23	125.13	111.00
1	E	191	LYS	N-CA-C	5.23	125.11	111.00
1	F	391	LEU	CB-CA-C	5.22	120.13	110.20
1	C	391	LEU	CB-CA-C	5.22	120.12	110.20
1	B	191	LYS	N-CA-C	5.22	125.08	111.00
1	D	391	LEU	CB-CA-C	5.22	120.11	110.20
1	A	391	LEU	CB-CA-C	5.21	120.10	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	391	LEU	CB-CA-C	5.20	120.08	110.20
1	B	391	LEU	CB-CA-C	5.19	120.07	110.20
1	C	365	ILE	CB-CA-C	5.18	121.97	111.60
1	D	365	ILE	CB-CA-C	5.18	121.97	111.60
1	F	365	ILE	CB-CA-C	5.18	121.95	111.60
1	B	365	ILE	CB-CA-C	5.17	121.94	111.60
1	E	365	ILE	CB-CA-C	5.17	121.93	111.60
1	A	365	ILE	CB-CA-C	5.16	121.92	111.60
1	C	391	LEU	N-CA-C	-5.11	97.22	111.00
1	A	391	LEU	N-CA-C	-5.10	97.22	111.00
1	B	391	LEU	N-CA-C	-5.10	97.22	111.00
1	F	391	LEU	N-CA-C	-5.10	97.24	111.00
1	D	391	LEU	N-CA-C	-5.09	97.25	111.00
1	E	391	LEU	N-CA-C	-5.09	97.25	111.00

There are no chirality outliers.

All (18) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	392	VAL	Peptide
1	A	393	ALA	Peptide
1	A	394	ASN	Peptide
1	B	392	VAL	Peptide
1	B	393	ALA	Peptide
1	B	394	ASN	Peptide
1	C	392	VAL	Peptide
1	C	393	ALA	Peptide
1	C	394	ASN	Peptide
1	D	392	VAL	Peptide
1	D	393	ALA	Peptide
1	D	394	ASN	Peptide
1	E	392	VAL	Peptide
1	E	393	ALA	Peptide
1	E	394	ASN	Peptide
1	F	392	VAL	Peptide
1	F	393	ALA	Peptide
1	F	394	ASN	Peptide

5.2 Too-close contacts (i)

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	3345	0	3267	1020	0
1	B	3345	0	3267	1031	0
1	C	3345	0	3267	1038	0
1	D	3345	0	3267	1045	0
1	E	3345	0	3267	1033	0
1	F	3345	0	3267	1029	0
2	G	777	0	731	456	0
2	H	777	0	731	457	0
2	I	777	0	731	464	0
2	J	777	0	731	471	0
2	K	777	0	731	475	0
2	L	777	0	731	465	0
All	All	24732	0	23988	7933	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 163.

All (7933) 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:B:320:TRP:CD1	1:B:344:VAL:HG23	1.31	1.65
1:A:252:PHE:CE2	1:A:257:LYS:HG2	1.11	1.63
1:B:252:PHE:CE2	1:B:257:LYS:HG2	1.11	1.63
1:C:320:TRP:CD1	1:C:344:VAL:HG23	1.31	1.63
1:A:320:TRP:CD1	1:A:344:VAL:HG23	1.31	1.63
1:B:338:LEU:HD12	1:B:414:ALA:CB	1.20	1.63
1:B:327:PHE:CE2	1:B:351:PHE:HD2	1.16	1.62
1:A:327:PHE:CE2	1:A:351:PHE:HD2	1.16	1.61
1:E:338:LEU:HD12	1:E:414:ALA:CB	1.20	1.61
1:C:327:PHE:CE2	1:C:351:PHE:HD2	1.16	1.61
1:D:252:PHE:CE2	1:D:257:LYS:HG2	1.11	1.60
1:D:270:LEU:HA	1:D:277:PRO:CD	1.31	1.60
1:D:338:LEU:HD12	1:D:414:ALA:CB	1.20	1.60
1:C:338:LEU:HD12	1:C:414:ALA:CB	1.20	1.60
1:A:338:LEU:HD12	1:A:414:ALA:CB	1.20	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:VAL:CG1	1:B:287:GLU:HG2	1.16	1.58
1:C:252:PHE:CE2	1:C:257:LYS:HG2	1.11	1.58
1:E:252:PHE:CE2	1:E:257:LYS:HG2	1.11	1.58
1:E:282:VAL:CG1	1:E:287:GLU:HG2	1.16	1.58
1:F:327:PHE:CE2	1:F:351:PHE:HD2	1.16	1.58
1:D:320:TRP:CD1	1:D:344:VAL:HG23	1.31	1.58
1:A:150:ILE:HD12	1:A:154:PHE:CE2	1.39	1.58
1:E:150:ILE:HD12	1:E:154:PHE:CE2	1.39	1.58
1:F:338:LEU:HD12	1:F:414:ALA:CB	1.20	1.58
1:D:327:PHE:CE2	1:D:351:PHE:HD2	1.16	1.58
1:A:282:VAL:CG1	1:A:287:GLU:HG2	1.16	1.58
1:E:270:LEU:HA	1:E:277:PRO:CD	1.31	1.58
1:F:93:GLU:HB2	1:F:140:ASP:CB	1.33	1.58
1:F:282:VAL:CG1	1:F:287:GLU:HG2	1.16	1.58
1:E:327:PHE:CE2	1:E:351:PHE:HD2	1.16	1.57
1:F:320:TRP:CD1	1:F:344:VAL:HG23	1.31	1.57
1:E:93:GLU:HB2	1:E:140:ASP:CB	1.33	1.57
1:D:282:VAL:CG1	1:D:287:GLU:HG2	1.16	1.57
1:F:252:PHE:CE2	1:F:257:LYS:HG2	1.11	1.57
1:B:150:ILE:HD12	1:B:154:PHE:CE2	1.39	1.56
1:B:270:LEU:HA	1:B:277:PRO:CD	1.31	1.56
1:E:320:TRP:CD1	1:E:344:VAL:HG23	1.31	1.56
1:C:252:PHE:HE2	1:C:257:LYS:CG	1.16	1.56
1:C:270:LEU:HA	1:C:277:PRO:CD	1.31	1.56
1:D:93:GLU:HB2	1:D:140:ASP:CB	1.33	1.56
1:C:93:GLU:HB2	1:C:140:ASP:CB	1.33	1.56
1:A:252:PHE:HE2	1:A:257:LYS:CG	1.16	1.55
1:C:282:VAL:CG1	1:C:287:GLU:HG2	1.16	1.55
1:D:150:ILE:HD12	1:D:154:PHE:CE2	1.39	1.55
1:A:93:GLU:HB2	1:A:140:ASP:CB	1.34	1.54
1:F:270:LEU:HA	1:F:277:PRO:CD	1.31	1.54
1:A:270:LEU:HA	1:A:277:PRO:CD	1.31	1.54
1:C:150:ILE:HD12	1:C:154:PHE:CE2	1.39	1.54
1:E:252:PHE:HE2	1:E:257:LYS:CG	1.16	1.54
1:F:252:PHE:HE2	1:F:257:LYS:CG	1.16	1.54
1:F:150:ILE:HD12	1:F:154:PHE:CE2	1.39	1.53
1:E:119:ILE:CG2	1:E:181:LEU:HD11	1.37	1.53
1:B:93:GLU:HB2	1:B:140:ASP:CB	1.33	1.53
1:C:93:GLU:CB	1:C:140:ASP:CB	1.86	1.53
1:E:93:GLU:CB	1:E:140:ASP:CB	1.86	1.53
1:A:119:ILE:CG2	1:A:181:LEU:HD11	1.37	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:ILE:CG2	1:B:181:LEU:HD11	1.37	1.52
1:D:93:GLU:CB	1:D:140:ASP:CB	1.86	1.52
1:F:119:ILE:CG2	1:F:181:LEU:HD11	1.37	1.52
2:K:130:VAL:N	2:L:6:GLN:CG	1.71	1.52
1:B:320:TRP:NE1	1:B:344:VAL:CG2	1.73	1.52
1:F:93:GLU:CB	1:F:140:ASP:CB	1.86	1.52
1:B:252:PHE:HE2	1:B:257:LYS:CG	1.16	1.51
1:C:320:TRP:NE1	1:C:344:VAL:CG2	1.73	1.51
1:D:338:LEU:CD1	1:D:414:ALA:HB2	1.04	1.51
1:D:428:GLU:N	1:D:469:THR:CB	1.73	1.51
1:C:338:LEU:CD1	1:C:414:ALA:HB2	1.04	1.51
1:D:252:PHE:HE2	1:D:257:LYS:CG	1.16	1.51
1:E:428:GLU:N	1:E:469:THR:CB	1.73	1.51
1:F:428:GLU:N	1:F:469:THR:CB	1.73	1.51
1:A:428:GLU:N	1:A:469:THR:CB	1.73	1.51
2:G:6:GLN:CG	2:L:130:VAL:N	1.71	1.51
2:G:18:LEU:N	2:G:74:MET:HE1	1.20	1.51
1:A:320:TRP:NE1	1:A:344:VAL:CG2	1.73	1.50
1:D:320:TRP:NE1	1:D:344:VAL:CG2	1.73	1.50
1:E:338:LEU:CD1	1:E:414:ALA:HB2	1.04	1.49
1:C:119:ILE:CG2	1:C:181:LEU:HD11	1.37	1.49
1:B:93:GLU:HB3	1:B:140:ASP:CA	1.03	1.49
1:D:93:GLU:CB	1:D:140:ASP:CA	1.90	1.49
1:C:93:GLU:HB3	1:C:140:ASP:CA	1.03	1.49
1:F:93:GLU:HB3	1:F:140:ASP:CA	1.03	1.49
1:A:338:LEU:CD1	1:A:414:ALA:HB2	1.04	1.48
1:B:264:ILE:HD13	1:B:269:GLN:CB	1.44	1.48
1:B:338:LEU:CD1	1:B:414:ALA:HB2	1.04	1.48
1:C:93:GLU:CB	1:C:140:ASP:CA	1.90	1.48
1:C:264:ILE:HD13	1:C:269:GLN:CB	1.43	1.48
1:C:428:GLU:N	1:C:469:THR:CB	1.73	1.48
1:D:34:LYS:CD	1:D:422:SER:HB2	1.44	1.48
1:D:119:ILE:CG2	1:D:181:LEU:HD11	1.37	1.48
1:E:320:TRP:NE1	1:E:344:VAL:CG2	1.73	1.48
1:A:93:GLU:HB3	1:A:140:ASP:CA	1.03	1.48
1:E:93:GLU:HB3	1:E:140:ASP:CA	1.03	1.48
1:A:93:GLU:CB	1:A:140:ASP:CB	1.86	1.48
1:A:264:ILE:HD13	1:A:269:GLN:CB	1.43	1.48
1:F:320:TRP:NE1	1:F:344:VAL:CG2	1.73	1.48
1:F:338:LEU:CD1	1:F:414:ALA:HB2	1.04	1.48
1:A:34:LYS:CD	1:A:422:SER:HB2	1.44	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:264:ILE:HD13	1:D:269:GLN:CB	1.43	1.48
1:B:93:GLU:CB	1:B:140:ASP:HA	1.44	1.47
1:B:428:GLU:N	1:B:469:THR:CB	1.73	1.47
1:E:34:LYS:CD	1:E:422:SER:HB2	1.44	1.47
2:G:130:VAL:N	2:H:6:GLN:CG	1.71	1.47
2:L:24:ALA:CA	2:L:71:VAL:HG13	1.43	1.47
1:B:34:LYS:CD	1:B:422:SER:HB2	1.44	1.47
1:D:93:GLU:HB3	1:D:140:ASP:CA	1.03	1.47
1:F:264:ILE:HD13	1:F:269:GLN:CB	1.43	1.47
1:B:93:GLU:CB	1:B:140:ASP:CB	1.86	1.47
1:E:264:ILE:HD13	1:E:269:GLN:CB	1.43	1.47
2:L:18:LEU:N	2:L:74:MET:HE1	1.19	1.47
1:B:282:VAL:HG12	1:B:287:GLU:CG	1.44	1.47
1:A:93:GLU:CB	1:A:140:ASP:HA	1.44	1.46
1:F:428:GLU:N	1:F:469:THR:HB	1.18	1.46
2:J:24:ALA:CA	2:J:71:VAL:HG13	1.43	1.46
2:K:24:ALA:CA	2:K:71:VAL:HG13	1.43	1.46
1:A:52:GLU:HG2	1:A:88:LEU:CD2	1.45	1.46
1:C:77:GLY:C	1:C:80:PRO:HD2	1.35	1.46
1:D:77:GLY:C	1:D:80:PRO:HD2	1.35	1.46
2:I:24:ALA:CA	2:I:71:VAL:HG13	1.43	1.46
1:C:282:VAL:HG12	1:C:287:GLU:CG	1.43	1.46
1:F:52:GLU:HG2	1:F:88:LEU:CD2	1.45	1.46
2:G:24:ALA:CA	2:G:71:VAL:HG13	1.43	1.45
1:A:428:GLU:N	1:A:469:THR:HB	1.18	1.45
1:F:93:GLU:CB	1:F:140:ASP:CA	1.90	1.45
2:H:130:VAL:N	2:I:6:GLN:CG	1.71	1.45
1:C:352:VAL:HG13	1:C:362:MET:CG	1.47	1.45
1:D:352:VAL:HG13	1:D:362:MET:CG	1.47	1.45
2:K:18:LEU:N	2:K:74:MET:HE1	1.16	1.45
1:E:93:GLU:CB	1:E:140:ASP:CA	1.90	1.45
1:F:93:GLU:CB	1:F:140:ASP:HA	1.44	1.44
1:A:282:VAL:HG12	1:A:287:GLU:CG	1.44	1.44
1:B:352:VAL:HG13	1:B:362:MET:CG	1.47	1.44
1:D:428:GLU:N	1:D:469:THR:HB	1.18	1.44
1:E:327:PHE:CD2	1:E:351:PHE:HD2	1.36	1.44
1:C:34:LYS:CD	1:C:422:SER:HB2	1.44	1.44
1:F:34:LYS:CD	1:F:422:SER:HB2	1.44	1.44
2:J:130:VAL:N	2:K:6:GLN:CG	1.71	1.44
1:D:327:PHE:CD2	1:D:351:PHE:HD2	1.36	1.44
1:F:282:VAL:HG12	1:F:287:GLU:CG	1.43	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:282:VAL:HG12	1:D:287:GLU:CG	1.43	1.44
1:E:282:VAL:HG12	1:E:287:GLU:CG	1.43	1.44
1:E:428:GLU:N	1:E:469:THR:HB	1.18	1.43
1:A:327:PHE:CE2	1:A:351:PHE:CD2	2.06	1.43
1:A:327:PHE:CD2	1:A:351:PHE:HD2	1.36	1.43
1:B:327:PHE:CE2	1:B:351:PHE:CD2	2.06	1.43
1:B:327:PHE:CD2	1:B:351:PHE:HD2	1.36	1.43
1:D:52:GLU:HG2	1:D:88:LEU:CD2	1.45	1.43
1:F:327:PHE:CD2	1:F:351:PHE:HD2	1.36	1.43
1:A:93:GLU:CB	1:A:140:ASP:CA	1.90	1.43
1:C:327:PHE:CE2	1:C:351:PHE:CD2	2.06	1.43
1:E:352:VAL:HG13	1:E:362:MET:CG	1.47	1.43
2:H:18:LEU:N	2:H:74:MET:HE1	1.24	1.43
1:A:77:GLY:C	1:A:80:PRO:HD2	1.35	1.42
2:H:24:ALA:CA	2:H:71:VAL:HG13	1.43	1.42
1:B:52:GLU:HG2	1:B:88:LEU:CD2	1.45	1.42
1:B:77:GLY:C	1:B:80:PRO:HD2	1.35	1.42
1:E:77:GLY:C	1:E:80:PRO:HD2	1.35	1.42
1:E:93:GLU:CB	1:E:140:ASP:HA	1.44	1.42
1:F:335:ILE:HG13	1:F:362:MET:CE	1.49	1.42
1:C:428:GLU:N	1:C:469:THR:HB	1.18	1.42
1:F:327:PHE:CE2	1:F:351:PHE:CD2	2.06	1.42
2:I:130:VAL:N	2:J:6:GLN:CG	1.71	1.42
1:E:52:GLU:HG2	1:E:88:LEU:CD2	1.45	1.42
1:D:335:ILE:HG13	1:D:362:MET:CE	1.49	1.41
1:E:338:LEU:HD11	1:E:393:ALA:CB	1.50	1.41
2:J:18:LEU:N	2:J:74:MET:HE1	1.19	1.41
1:C:52:GLU:HG2	1:C:88:LEU:CD2	1.45	1.41
1:C:327:PHE:CD2	1:C:351:PHE:HD2	1.36	1.41
2:I:18:LEU:N	2:I:74:MET:HE1	1.22	1.41
1:C:335:ILE:HG13	1:C:362:MET:CE	1.48	1.41
1:D:93:GLU:CB	1:D:140:ASP:HA	1.44	1.41
1:E:282:VAL:CG1	1:E:287:GLU:CG	1.98	1.41
1:E:327:PHE:CE2	1:E:351:PHE:CD2	2.06	1.41
1:F:338:LEU:HD11	1:F:393:ALA:CB	1.50	1.41
1:A:93:GLU:CB	1:A:140:ASP:HB3	1.48	1.41
1:D:527:ASP:CB	2:K:136:ASP:OD2	1.64	1.41
1:A:335:ILE:HG13	1:A:362:MET:CE	1.49	1.41
1:D:327:PHE:CE2	1:D:351:PHE:CD2	2.06	1.41
1:E:335:ILE:HG13	1:E:362:MET:CE	1.48	1.41
1:A:338:LEU:HD11	1:A:393:ALA:CB	1.50	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HD11	1:B:393:ALA:CB	1.50	1.40
1:D:338:LEU:HD11	1:D:393:ALA:CB	1.50	1.40
1:F:39:ILE:CD1	1:F:327:PHE:HB2	1.51	1.40
1:F:352:VAL:HG13	1:F:362:MET:CG	1.47	1.40
1:B:428:GLU:N	1:B:469:THR:HB	1.18	1.40
1:B:76:TRP:CA	1:B:415:VAL:HG21	1.52	1.39
1:C:76:TRP:CA	1:C:415:VAL:HG21	1.52	1.39
1:E:320:TRP:CD1	1:E:344:VAL:CG2	2.04	1.39
1:C:93:GLU:CB	1:C:140:ASP:HA	1.44	1.39
1:C:338:LEU:HD11	1:C:393:ALA:CB	1.50	1.39
1:D:327:PHE:CD2	1:D:351:PHE:CD2	2.10	1.39
1:F:427:GLY:O	1:F:495:GLU:CG	1.69	1.39
1:A:352:VAL:HG13	1:A:362:MET:CG	1.47	1.39
1:E:39:ILE:CD1	1:E:327:PHE:HB2	1.51	1.39
1:F:77:GLY:C	1:F:80:PRO:HD2	1.35	1.39
1:A:39:ILE:CD1	1:A:327:PHE:HB2	1.51	1.39
1:B:320:TRP:NE1	1:B:344:VAL:HG23	1.06	1.39
1:F:320:TRP:CD1	1:F:344:VAL:CG2	2.04	1.39
1:F:327:PHE:CD2	1:F:351:PHE:CD2	2.10	1.39
1:B:327:PHE:CD2	1:B:351:PHE:CD2	2.10	1.38
1:D:76:TRP:CA	1:D:415:VAL:HG21	1.52	1.38
1:E:76:TRP:CA	1:E:415:VAL:HG21	1.52	1.38
1:C:39:ILE:CD1	1:C:327:PHE:HB2	1.51	1.38
1:B:39:ILE:CD1	1:B:327:PHE:HB2	1.51	1.38
1:B:282:VAL:CG1	1:B:287:GLU:CG	1.98	1.38
1:B:320:TRP:CD1	1:B:344:VAL:CG2	2.04	1.38
1:B:335:ILE:HG13	1:B:362:MET:CE	1.48	1.38
1:D:427:GLY:O	1:D:495:GLU:CG	1.69	1.38
1:F:76:TRP:CA	1:F:415:VAL:HG21	1.52	1.38
1:F:282:VAL:CG1	1:F:287:GLU:CG	1.98	1.38
1:A:282:VAL:CG1	1:A:287:GLU:CG	1.97	1.38
1:E:327:PHE:CD2	1:E:351:PHE:CD2	2.10	1.38
1:D:320:TRP:NE1	1:D:344:VAL:HG23	1.06	1.37
1:A:76:TRP:CA	1:A:415:VAL:HG21	1.52	1.37
1:D:320:TRP:CD1	1:D:344:VAL:CG2	2.04	1.37
1:B:34:LYS:CG	1:B:422:SER:HB2	1.55	1.37
1:C:34:LYS:CG	1:C:422:SER:HB2	1.55	1.37
1:C:320:TRP:NE1	1:C:344:VAL:HG23	1.07	1.36
1:A:327:PHE:CD2	1:A:351:PHE:CD2	2.10	1.36
1:D:39:ILE:CD1	1:D:327:PHE:HB2	1.51	1.36
1:C:282:VAL:CG1	1:C:287:GLU:CG	1.97	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:93:GLU:CB	1:D:140:ASP:HB3	1.48	1.36
1:A:34:LYS:CG	1:A:422:SER:HB2	1.55	1.36
1:C:327:PHE:CD2	1:C:351:PHE:CD2	2.10	1.36
1:A:320:TRP:CD1	1:A:344:VAL:CG2	2.04	1.35
1:C:427:GLY:O	1:C:495:GLU:CG	1.69	1.35
1:D:34:LYS:CG	1:D:422:SER:HB2	1.55	1.35
1:D:112:TYR:N	1:D:141:ASP:HB2	1.41	1.35
1:E:320:TRP:NE1	1:E:344:VAL:HG23	1.07	1.35
1:F:34:LYS:CG	1:F:422:SER:HB2	1.55	1.35
1:C:34:LYS:HD2	1:C:422:SER:CB	1.56	1.35
1:E:34:LYS:CG	1:E:422:SER:HB2	1.55	1.35
1:F:320:TRP:NE1	1:F:344:VAL:HG23	1.07	1.35
1:A:427:GLY:O	1:A:495:GLU:CG	1.69	1.34
1:B:34:LYS:HD2	1:B:422:SER:CB	1.57	1.34
1:A:540:ASN:O	1:A:541:GLU:HG3	1.24	1.34
1:E:112:TYR:N	1:E:141:ASP:HB2	1.41	1.34
2:H:127:GLU:C	2:I:8:THR:CG2	1.96	1.34
1:A:320:TRP:NE1	1:A:344:VAL:HG23	1.06	1.34
1:C:93:GLU:CB	1:C:140:ASP:HB3	1.48	1.34
1:C:112:TYR:N	1:C:141:ASP:HB2	1.41	1.34
2:K:127:GLU:C	2:L:8:THR:CG2	1.96	1.34
1:D:282:VAL:CG1	1:D:287:GLU:CG	1.97	1.33
2:J:127:GLU:C	2:K:8:THR:CG2	1.96	1.33
1:D:537:LYS:HG3	1:D:545:PHE:CE2	1.63	1.33
1:E:537:LYS:HG3	1:E:545:PHE:CE2	1.62	1.33
1:F:93:GLU:CB	1:F:140:ASP:HB3	1.48	1.33
2:G:24:ALA:HB1	2:G:71:VAL:CG1	1.59	1.33
1:C:320:TRP:CD1	1:C:344:VAL:CG2	2.04	1.33
1:C:527:ASP:CB	2:J:136:ASP:OD2	1.76	1.33
1:E:92:ILE:CG1	1:E:326:LYS:HZ2	1.39	1.33
1:D:370:PHE:CE2	1:D:448:ASP:OD2	1.81	1.33
1:A:112:TYR:N	1:A:141:ASP:HB2	1.41	1.32
1:D:34:LYS:HD2	1:D:422:SER:CB	1.56	1.32
1:E:34:LYS:HD2	1:E:422:SER:CB	1.56	1.32
1:E:370:PHE:CE2	1:E:448:ASP:OD2	1.81	1.32
1:F:537:LYS:HG3	1:F:545:PHE:CE2	1.62	1.32
1:F:540:ASN:O	1:F:541:GLU:HG3	1.24	1.32
2:G:8:THR:CG2	2:L:127:GLU:C	1.96	1.32
1:B:112:TYR:N	1:B:141:ASP:HB2	1.41	1.32
1:C:370:PHE:CE2	1:C:448:ASP:OD2	1.81	1.32
1:E:427:GLY:O	1:E:495:GLU:CG	1.69	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:127:GLU:C	2:H:8:THR:CG2	1.96	1.32
2:I:24:ALA:HB1	2:I:71:VAL:CG1	1.59	1.32
1:A:537:LYS:HG3	1:A:545:PHE:CE2	1.63	1.32
1:D:528:PHE:CZ	2:K:107:TYR:HB3	1.64	1.32
2:L:24:ALA:HB1	2:L:71:VAL:CG1	1.59	1.32
1:B:540:ASN:O	1:B:541:GLU:HG3	1.24	1.32
1:C:537:LYS:HG3	1:C:545:PHE:CD2	1.65	1.32
2:I:127:GLU:C	2:J:8:THR:CG2	1.96	1.32
1:A:370:PHE:CE2	1:A:448:ASP:OD2	1.81	1.31
1:B:370:PHE:CE2	1:B:448:ASP:OD2	1.81	1.31
1:F:34:LYS:HD2	1:F:422:SER:CB	1.56	1.31
1:F:112:TYR:N	1:F:141:ASP:HB2	1.41	1.31
1:F:370:PHE:CE2	1:F:448:ASP:OD2	1.81	1.31
2:H:24:ALA:HB1	2:H:71:VAL:CG1	1.59	1.31
2:J:24:ALA:HB1	2:J:71:VAL:CG1	1.59	1.31
1:A:34:LYS:HD2	1:A:422:SER:CB	1.57	1.31
1:C:537:LYS:HG3	1:C:545:PHE:CE2	1.62	1.31
2:K:24:ALA:HB1	2:K:71:VAL:CG1	1.59	1.31
1:C:110:LYS:CE	1:C:113:GLY:HA3	1.61	1.31
1:E:335:ILE:O	1:E:337:PRO:HD3	1.18	1.31
1:E:355:ARG:O	1:E:361:PRO:HD3	1.28	1.31
2:I:24:ALA:CB	2:I:71:VAL:CG1	2.09	1.31
1:B:537:LYS:HG3	1:B:545:PHE:CD2	1.65	1.31
2:J:24:ALA:CB	2:J:71:VAL:CG1	2.09	1.31
1:B:93:GLU:CB	1:B:140:ASP:HB3	1.48	1.31
1:B:537:LYS:HG3	1:B:545:PHE:CE2	1.62	1.31
1:D:110:LYS:CE	1:D:113:GLY:HA3	1.61	1.31
1:D:535:ARG:HH22	2:K:135:GLU:CD	1.32	1.31
1:D:537:LYS:HG3	1:D:545:PHE:CD2	1.65	1.31
1:B:93:GLU:CB	1:B:140:ASP:CA	1.90	1.30
1:E:93:GLU:CB	1:E:140:ASP:HB3	1.48	1.30
2:G:27:LYS:HE2	2:H:95:GLN:OE1	1.32	1.30
1:A:92:ILE:CG1	1:A:326:LYS:HZ2	1.44	1.30
2:L:24:ALA:CB	2:L:71:VAL:CG1	2.09	1.30
1:B:110:LYS:CE	1:B:113:GLY:HA3	1.61	1.30
1:F:335:ILE:O	1:F:337:PRO:HD3	1.18	1.30
1:A:537:LYS:HG3	1:A:545:PHE:CD2	1.65	1.29
1:E:537:LYS:HG3	1:E:545:PHE:CD2	1.65	1.29
2:H:24:ALA:CB	2:H:71:VAL:CG1	2.09	1.29
1:F:166:THR:CG2	1:F:171:HIS:O	1.79	1.29
2:K:24:ALA:CB	2:K:71:VAL:CG1	2.09	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:THR:CG2	1:B:171:HIS:O	1.79	1.29
1:B:387:PRO:CG	1:B:390:SER:HB2	1.61	1.29
1:D:352:VAL:CG1	1:D:362:MET:HG3	1.62	1.29
1:D:387:PRO:CG	1:D:390:SER:HB2	1.61	1.29
1:E:407:HIS:C	1:E:409:PRO:HD3	1.53	1.29
2:J:24:ALA:CB	2:J:71:VAL:HG12	1.62	1.29
1:F:537:LYS:HG3	1:F:545:PHE:CD2	1.65	1.29
2:I:24:ALA:CB	2:I:71:VAL:HG12	1.62	1.29
1:B:338:LEU:O	1:B:412:MET:HE2	1.25	1.29
1:B:427:GLY:O	1:B:495:GLU:CG	1.69	1.29
1:D:166:THR:CG2	1:D:171:HIS:O	1.79	1.29
1:E:166:THR:CG2	1:E:171:HIS:O	1.79	1.29
1:E:540:ASN:O	1:E:541:GLU:HG3	1.24	1.29
1:F:387:PRO:CG	1:F:390:SER:HB2	1.61	1.29
1:A:166:THR:CG2	1:A:171:HIS:O	1.79	1.28
1:A:407:HIS:O	1:A:409:PRO:HD3	1.12	1.28
1:B:77:GLY:O	1:B:80:PRO:HD2	1.27	1.28
1:B:110:LYS:HB2	1:B:190:VAL:O	1.32	1.28
1:E:110:LYS:CE	1:E:113:GLY:HA3	1.61	1.28
1:E:387:PRO:CG	1:E:390:SER:HB2	1.61	1.28
1:F:110:LYS:CE	1:F:113:GLY:HA3	1.61	1.28
1:F:407:HIS:O	1:F:409:PRO:HD3	1.12	1.28
1:F:407:HIS:C	1:F:409:PRO:HD3	1.53	1.28
1:A:47:PRO:CB	1:A:93:GLU:OE1	1.81	1.28
1:B:407:HIS:O	1:B:409:PRO:CD	1.81	1.28
1:E:47:PRO:CB	1:E:93:GLU:OE1	1.81	1.28
1:A:77:GLY:O	1:A:80:PRO:HD2	1.26	1.28
1:C:540:ASN:O	1:C:541:GLU:HG3	1.24	1.28
1:F:355:ARG:O	1:F:361:PRO:HD3	1.28	1.28
1:A:387:PRO:CG	1:A:390:SER:HB2	1.61	1.28
1:B:47:PRO:CB	1:B:93:GLU:OE1	1.81	1.28
1:C:407:HIS:O	1:C:409:PRO:CD	1.81	1.28
1:D:110:LYS:HB2	1:D:190:VAL:O	1.32	1.28
1:E:110:LYS:HB2	1:E:190:VAL:O	1.32	1.28
2:G:24:ALA:CB	2:G:71:VAL:CG1	2.09	1.28
1:B:335:ILE:O	1:B:337:PRO:HD3	1.18	1.28
1:D:407:HIS:C	1:D:409:PRO:HD3	1.53	1.28
1:C:166:THR:CG2	1:C:171:HIS:O	1.79	1.27
1:C:352:VAL:CG1	1:C:362:MET:HG3	1.62	1.27
1:C:387:PRO:CG	1:C:390:SER:HB2	1.61	1.27
1:F:77:GLY:O	1:F:80:PRO:HD2	1.27	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:ARG:O	1:C:361:PRO:HD3	1.28	1.27
1:D:407:HIS:O	1:D:409:PRO:CD	1.81	1.27
1:A:110:LYS:HB2	1:A:190:VAL:O	1.32	1.27
1:A:110:LYS:CE	1:A:113:GLY:HA3	1.61	1.27
1:F:407:HIS:O	1:F:409:PRO:CD	1.81	1.27
1:D:540:ASN:O	1:D:541:GLU:HG3	1.24	1.27
2:H:24:ALA:CA	2:H:71:VAL:HA	1.65	1.27
2:H:24:ALA:CB	2:H:71:VAL:HG12	1.62	1.27
2:K:24:ALA:CB	2:K:71:VAL:HG12	1.62	1.27
1:A:355:ARG:O	1:A:361:PRO:HD3	1.28	1.27
1:A:407:HIS:C	1:A:409:PRO:HD3	1.53	1.27
1:D:47:PRO:CB	1:D:93:GLU:OE1	1.81	1.27
1:D:77:GLY:O	1:D:80:PRO:HD2	1.27	1.27
1:D:335:ILE:O	1:D:337:PRO:HD3	1.18	1.27
1:E:407:HIS:O	1:E:409:PRO:CD	1.81	1.27
2:I:27:LYS:HE2	2:J:95:GLN:OE1	1.31	1.27
1:F:352:VAL:CG1	1:F:362:MET:HG3	1.62	1.26
2:G:24:ALA:CB	2:G:71:VAL:HG12	1.62	1.26
1:A:407:HIS:O	1:A:409:PRO:CD	1.81	1.26
1:B:39:ILE:HD13	1:B:327:PHE:CA	1.65	1.26
1:B:407:HIS:C	1:B:409:PRO:HD3	1.53	1.26
1:C:47:PRO:CB	1:C:93:GLU:OE1	1.81	1.26
1:E:77:GLY:O	1:E:80:PRO:HD2	1.27	1.26
1:C:407:HIS:C	1:C:409:PRO:HD3	1.53	1.26
2:G:24:ALA:CA	2:G:71:VAL:HA	1.65	1.26
2:J:27:LYS:HE2	2:K:95:GLN:OE1	1.32	1.26
1:B:355:ARG:O	1:B:361:PRO:HD3	1.28	1.26
1:F:39:ILE:CD1	1:F:327:PHE:CB	2.14	1.26
2:G:95:GLN:OE1	2:L:27:LYS:HE2	1.31	1.26
1:B:112:TYR:HA	1:B:141:ASP:OD2	1.36	1.25
1:C:113:GLY:N	1:C:141:ASP:HB3	1.50	1.25
1:D:113:GLY:N	1:D:141:ASP:HB3	1.50	1.25
1:E:134:LEU:HD22	1:E:143:PHE:CE1	1.71	1.25
2:H:27:LYS:HE2	2:I:95:GLN:OE1	1.32	1.25
2:K:24:ALA:CA	2:K:71:VAL:HA	1.65	1.25
1:C:39:ILE:HD13	1:C:327:PHE:CA	1.65	1.25
1:C:77:GLY:O	1:C:80:PRO:HD2	1.27	1.25
1:C:134:LEU:HD22	1:C:143:PHE:CE1	1.71	1.25
1:C:169:VAL:HB	1:C:286:GLU:OE1	1.36	1.25
1:C:335:ILE:O	1:C:337:PRO:HD3	1.18	1.25
1:D:407:HIS:O	1:D:409:PRO:HD3	1.12	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:47:PRO:CB	1:F:93:GLU:OE1	1.81	1.25
1:F:110:LYS:HB2	1:F:190:VAL:O	1.32	1.25
1:A:335:ILE:O	1:A:337:PRO:HD3	1.18	1.25
1:D:355:ARG:O	1:D:361:PRO:HD3	1.28	1.25
1:A:352:VAL:CG1	1:A:362:MET:HG3	1.62	1.25
1:B:352:VAL:CG1	1:B:362:MET:HG3	1.62	1.25
1:E:39:ILE:HD13	1:E:327:PHE:CA	1.65	1.25
2:J:68:SER:OG	2:K:102:GLU:OE1	1.55	1.25
1:C:39:ILE:CD1	1:C:327:PHE:CB	2.14	1.25
1:D:541:GLU:N	1:D:568:ILE:HD11	1.50	1.25
2:L:24:ALA:CA	2:L:71:VAL:HA	1.65	1.25
1:A:338:LEU:O	1:A:412:MET:HE2	1.30	1.25
1:B:113:GLY:N	1:B:141:ASP:HB3	1.50	1.25
1:E:541:GLU:N	1:E:568:ILE:HD11	1.50	1.25
2:K:27:LYS:HE2	2:L:95:GLN:OE1	1.32	1.25
1:A:39:ILE:CD1	1:A:327:PHE:CB	2.14	1.25
1:A:112:TYR:HA	1:A:141:ASP:OD2	1.36	1.25
1:A:320:TRP:HZ2	1:A:343:SER:O	1.20	1.25
1:A:566:TYR:HD2	1:A:572:LYS:O	1.19	1.25
1:C:112:TYR:HA	1:C:141:ASP:OD2	1.37	1.25
1:E:39:ILE:CD1	1:E:327:PHE:CB	2.14	1.25
2:I:24:ALA:CA	2:I:71:VAL:HA	1.65	1.25
2:L:24:ALA:CB	2:L:71:VAL:HG12	1.62	1.25
1:A:541:GLU:N	1:A:568:ILE:HD11	1.50	1.24
1:B:320:TRP:HZ2	1:B:343:SER:O	1.20	1.24
1:F:134:LEU:HD22	1:F:143:PHE:CE1	1.72	1.24
1:F:320:TRP:HZ2	1:F:343:SER:O	1.20	1.24
1:E:113:GLY:N	1:E:141:ASP:HB3	1.50	1.24
1:E:320:TRP:HZ2	1:E:343:SER:O	1.20	1.24
1:F:39:ILE:HD13	1:F:327:PHE:CA	1.65	1.24
2:H:68:SER:OG	2:I:102:GLU:OE1	1.55	1.24
2:I:24:ALA:CA	2:I:71:VAL:CG1	2.16	1.24
2:I:127:GLU:O	2:J:8:THR:HG22	1.38	1.24
1:A:39:ILE:HD13	1:A:327:PHE:CA	1.65	1.24
1:B:134:LEU:HD22	1:B:143:PHE:CE1	1.71	1.24
1:C:407:HIS:O	1:C:409:PRO:HD3	1.12	1.24
1:D:39:ILE:CD1	1:D:327:PHE:CB	2.14	1.24
2:G:68:SER:OG	2:H:102:GLU:OE1	1.55	1.24
2:I:68:SER:OG	2:J:102:GLU:OE1	1.55	1.24
1:C:264:ILE:CD1	1:C:269:GLN:HG2	1.68	1.24
1:E:352:VAL:CG1	1:E:362:MET:HG3	1.62	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:127:GLU:O	2:I:8:THR:HG22	1.38	1.24
1:B:39:ILE:CD1	1:B:327:PHE:CB	2.14	1.24
1:B:45:GLY:HA3	1:B:111:ILE:CG1	1.68	1.24
1:D:39:ILE:HD13	1:D:327:PHE:CA	1.65	1.24
1:D:169:VAL:HB	1:D:286:GLU:OE1	1.36	1.24
1:F:264:ILE:CD1	1:F:269:GLN:HG2	1.68	1.24
2:H:128:GLU:N	2:I:8:THR:HG21	1.53	1.24
2:J:24:ALA:CA	2:J:71:VAL:HA	1.65	1.24
2:K:68:SER:OG	2:L:102:GLU:OE1	1.55	1.24
1:C:320:TRP:HZ2	1:C:343:SER:O	1.20	1.23
1:C:541:GLU:N	1:C:568:ILE:HD11	1.50	1.23
1:D:134:LEU:HD22	1:D:143:PHE:CE1	1.71	1.23
1:E:407:HIS:O	1:E:409:PRO:HD3	1.12	1.23
2:G:129:GLU:O	2:H:6:GLN:HB2	1.39	1.23
2:K:68:SER:CB	2:L:102:GLU:OE1	1.86	1.23
1:C:110:LYS:HB2	1:C:190:VAL:O	1.32	1.23
1:D:320:TRP:HZ2	1:D:343:SER:O	1.20	1.23
1:A:320:TRP:CZ2	1:A:343:SER:O	1.92	1.23
1:C:270:LEU:CA	1:C:277:PRO:CD	2.17	1.23
1:D:264:ILE:CD1	1:D:269:GLN:HG2	1.68	1.23
1:F:338:LEU:O	1:F:412:MET:HE2	1.32	1.23
2:G:102:GLU:OE1	2:L:68:SER:CB	1.86	1.23
2:J:24:ALA:CA	2:J:71:VAL:CG1	2.16	1.23
1:B:47:PRO:HB3	1:B:93:GLU:CD	1.59	1.23
1:B:269:GLN:O	1:B:277:PRO:HD2	1.39	1.23
1:B:270:LEU:CA	1:B:277:PRO:CD	2.17	1.23
1:C:77:GLY:O	1:C:80:PRO:CD	1.87	1.23
2:G:8:THR:HG21	2:L:128:GLU:N	1.53	1.23
2:H:27:LYS:HD3	2:I:95:GLN:O	1.39	1.23
2:H:129:GLU:O	2:I:6:GLN:HB2	1.39	1.23
1:B:264:ILE:CD1	1:B:269:GLN:HG2	1.68	1.23
1:D:112:TYR:HA	1:D:141:ASP:OD2	1.36	1.23
1:F:45:GLY:HA3	1:F:111:ILE:CG1	1.68	1.23
1:F:113:GLY:N	1:F:141:ASP:HB3	1.50	1.23
1:F:320:TRP:CZ2	1:F:343:SER:O	1.92	1.23
2:G:102:GLU:OE1	2:L:68:SER:OG	1.55	1.23
2:K:24:ALA:CA	2:K:71:VAL:CG1	2.16	1.23
2:K:128:GLU:N	2:L:8:THR:HG21	1.53	1.23
1:A:169:VAL:HB	1:A:286:GLU:OE1	1.36	1.22
1:A:264:ILE:CD1	1:A:269:GLN:HG2	1.68	1.22
1:B:77:GLY:O	1:B:80:PRO:CD	1.87	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:566:TYR:HD2	1:C:572:LYS:O	1.19	1.22
1:F:541:GLU:N	1:F:568:ILE:HD11	1.50	1.22
2:J:127:GLU:O	2:K:8:THR:HG22	1.38	1.22
1:A:113:GLY:N	1:A:141:ASP:HB3	1.50	1.22
1:A:119:ILE:HG22	1:A:181:LEU:CD1	1.69	1.22
1:B:407:HIS:O	1:B:409:PRO:HD3	1.12	1.22
1:B:541:GLU:N	1:B:568:ILE:HD11	1.50	1.22
1:D:524:ILE:HG12	2:K:107:TYR:CZ	1.73	1.22
1:E:264:ILE:CD1	1:E:269:GLN:HG2	1.68	1.22
2:I:68:SER:CB	2:J:102:GLU:OE1	1.86	1.22
1:A:134:LEU:HD22	1:A:143:PHE:CE1	1.71	1.22
1:A:270:LEU:CA	1:A:277:PRO:CD	2.17	1.22
1:A:499:PHE:HE2	1:A:532:TYR:OH	1.21	1.22
1:B:320:TRP:CZ2	1:B:343:SER:O	1.92	1.22
1:D:270:LEU:CA	1:D:277:PRO:CD	2.17	1.22
1:D:320:TRP:CZ2	1:D:343:SER:O	1.92	1.22
1:E:166:THR:HG23	1:E:171:HIS:O	1.37	1.22
2:J:68:SER:CB	2:K:102:GLU:OE1	1.86	1.22
1:C:320:TRP:CZ2	1:C:343:SER:O	1.92	1.22
1:E:119:ILE:HG22	1:E:181:LEU:CD1	1.69	1.22
1:E:270:LEU:CA	1:E:277:PRO:CD	2.17	1.22
1:E:320:TRP:CZ2	1:E:343:SER:O	1.92	1.22
1:F:93:GLU:C	1:F:140:ASP:OD1	1.78	1.22
1:F:119:ILE:HG22	1:F:181:LEU:CD1	1.69	1.22
1:F:270:LEU:CA	1:F:277:PRO:CD	2.17	1.22
2:G:127:GLU:O	2:H:8:THR:HG22	1.38	1.22
2:G:128:GLU:N	2:H:8:THR:HG21	1.53	1.22
2:H:24:ALA:CA	2:H:71:VAL:CG1	2.16	1.22
2:H:68:SER:CB	2:I:102:GLU:OE1	1.86	1.22
1:B:169:VAL:HB	1:B:286:GLU:OE1	1.36	1.22
1:C:45:GLY:HA3	1:C:111:ILE:CG1	1.68	1.22
1:C:47:PRO:HB3	1:C:93:GLU:CD	1.59	1.22
2:L:24:ALA:CA	2:L:71:VAL:CG1	2.16	1.22
1:B:499:PHE:HE2	1:B:532:TYR:OH	1.21	1.21
1:C:387:PRO:HG2	1:C:390:SER:CB	1.71	1.21
1:C:409:PRO:HB2	1:C:411:TYR:CE1	1.75	1.21
1:E:45:GLY:HA3	1:E:111:ILE:CG1	1.68	1.21
2:G:6:GLN:HB2	2:L:129:GLU:O	1.39	1.21
2:G:68:SER:CB	2:H:102:GLU:OE1	1.86	1.21
2:G:95:GLN:O	2:L:27:LYS:HD3	1.39	1.21
2:I:128:GLU:N	2:J:8:THR:HG21	1.53	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:GLY:HA3	1:A:111:ILE:CG1	1.68	1.21
1:A:47:PRO:HB3	1:A:93:GLU:CD	1.59	1.21
1:C:269:GLN:O	1:C:277:PRO:HD2	1.39	1.21
1:D:119:ILE:HG22	1:D:181:LEU:CD1	1.69	1.21
1:E:47:PRO:HB3	1:E:93:GLU:CD	1.59	1.21
1:E:77:GLY:O	1:E:80:PRO:CD	1.87	1.21
1:E:93:GLU:C	1:E:140:ASP:OD1	1.78	1.21
1:F:112:TYR:HA	1:F:141:ASP:OD2	1.36	1.21
2:G:24:ALA:CA	2:G:71:VAL:CG1	2.16	1.21
2:I:129:GLU:O	2:J:6:GLN:HB2	1.39	1.21
2:J:128:GLU:N	2:K:8:THR:HG21	1.53	1.21
1:B:387:PRO:HG2	1:B:390:SER:CB	1.71	1.21
1:C:93:GLU:C	1:C:140:ASP:OD1	1.78	1.21
1:D:45:GLY:HA3	1:D:111:ILE:CG1	1.68	1.21
1:D:47:PRO:HB3	1:D:93:GLU:CD	1.59	1.21
1:D:409:PRO:HB2	1:D:411:TYR:CE1	1.75	1.21
1:E:527:ASP:HB3	2:L:136:ASP:OD2	1.35	1.21
1:F:77:GLY:O	1:F:80:PRO:CD	1.87	1.21
1:F:169:VAL:HB	1:F:286:GLU:OE1	1.36	1.21
1:B:93:GLU:C	1:B:140:ASP:OD1	1.78	1.21
1:B:566:TYR:HD2	1:B:572:LYS:O	1.19	1.21
1:D:77:GLY:O	1:D:80:PRO:CD	1.87	1.21
1:D:387:PRO:HG2	1:D:390:SER:CB	1.71	1.21
1:F:92:ILE:CG1	1:F:326:LYS:HZ2	1.51	1.21
1:B:409:PRO:HB2	1:B:411:TYR:CE1	1.75	1.21
1:C:527:ASP:HB3	2:J:136:ASP:OD2	1.04	1.21
2:K:127:GLU:O	2:L:8:THR:HG22	1.38	1.21
1:A:93:GLU:C	1:A:140:ASP:OD1	1.79	1.20
1:D:93:GLU:C	1:D:140:ASP:OD1	1.79	1.20
1:F:110:LYS:HE3	1:F:113:GLY:CA	1.72	1.20
1:F:499:PHE:HE2	1:F:532:TYR:OH	1.21	1.20
2:G:8:THR:HG22	2:L:127:GLU:O	1.38	1.20
1:A:387:PRO:HG2	1:A:390:SER:CB	1.71	1.20
1:F:166:THR:HG23	1:F:171:HIS:O	1.37	1.20
1:C:264:ILE:HD13	1:C:269:GLN:HB3	1.24	1.20
1:C:543:GLN:NE2	1:C:568:ILE:HG23	1.57	1.20
1:D:264:ILE:HD13	1:D:269:GLN:HB3	1.24	1.20
1:E:387:PRO:HG2	1:E:390:SER:CB	1.71	1.20
1:C:119:ILE:HG22	1:C:181:LEU:CD1	1.69	1.20
1:C:499:PHE:HE2	1:C:532:TYR:OH	1.21	1.20
1:C:528:PHE:CZ	2:J:107:TYR:HB3	1.75	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:264:ILE:HG21	1:D:269:GLN:HB3	1.23	1.20
1:E:409:PRO:HB2	1:E:411:TYR:CE1	1.75	1.20
1:F:282:VAL:O	1:F:287:GLU:HB2	1.02	1.20
1:A:409:PRO:HB2	1:A:411:TYR:CE1	1.75	1.20
1:B:110:LYS:HE3	1:B:113:GLY:CA	1.72	1.20
1:B:150:ILE:CD1	1:B:154:PHE:CE2	2.25	1.20
1:D:540:ASN:O	1:D:541:GLU:CG	1.90	1.20
1:F:47:PRO:HB3	1:F:93:GLU:CD	1.59	1.20
1:F:387:PRO:HG2	1:F:390:SER:CB	1.71	1.20
1:B:119:ILE:HG22	1:B:181:LEU:CD1	1.69	1.19
1:C:90:MET:O	1:C:326:LYS:HD2	1.42	1.19
1:D:269:GLN:O	1:D:277:PRO:HD2	1.39	1.19
1:D:355:ARG:O	1:D:361:PRO:CD	1.90	1.19
1:E:269:GLN:O	1:E:277:PRO:HD2	1.39	1.19
1:E:282:VAL:O	1:E:287:GLU:HB2	1.02	1.19
1:E:566:TYR:HD2	1:E:572:LYS:O	1.19	1.19
2:I:27:LYS:HD3	2:J:95:GLN:O	1.39	1.19
1:A:150:ILE:CD1	1:A:154:PHE:CE2	2.25	1.19
1:A:540:ASN:O	1:A:541:GLU:CG	1.90	1.19
1:B:355:ARG:O	1:B:361:PRO:CD	1.90	1.19
1:B:527:ASP:HB3	2:I:136:ASP:OD2	1.41	1.19
1:C:150:ILE:CD1	1:C:154:PHE:CE2	2.25	1.19
1:D:166:THR:HG23	1:D:171:HIS:O	1.37	1.19
1:D:543:GLN:NE2	1:D:568:ILE:HG23	1.57	1.19
1:F:409:PRO:HB2	1:F:411:TYR:CE1	1.75	1.19
2:H:127:GLU:C	2:I:8:THR:HG22	1.59	1.19
1:A:77:GLY:O	1:A:80:PRO:CD	1.87	1.19
1:B:543:GLN:NE2	1:B:568:ILE:HG23	1.57	1.19
1:C:282:VAL:HG13	1:C:287:GLU:CD	1.62	1.19
1:D:338:LEU:CG	1:D:414:ALA:HB2	1.73	1.19
1:E:535:ARG:HH22	2:L:135:GLU:CD	1.44	1.19
1:F:269:GLN:O	1:F:277:PRO:HD2	1.39	1.19
1:A:282:VAL:O	1:A:287:GLU:HB2	1.02	1.19
1:E:112:TYR:HA	1:E:141:ASP:OD2	1.36	1.19
1:E:338:LEU:CG	1:E:414:ALA:HB2	1.73	1.19
1:F:355:ARG:O	1:F:361:PRO:CD	1.90	1.19
2:G:27:LYS:HD3	2:H:95:GLN:O	1.38	1.19
1:A:110:LYS:HE3	1:A:113:GLY:CA	1.72	1.19
1:A:320:TRP:CZ2	1:A:343:SER:C	2.17	1.19
1:B:282:VAL:HG13	1:B:287:GLU:CD	1.62	1.19
1:C:110:LYS:HE3	1:C:113:GLY:CA	1.72	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:90:MET:O	1:D:326:LYS:HD2	1.42	1.19
1:E:540:ASN:O	1:E:541:GLU:CG	1.90	1.19
1:F:540:ASN:O	1:F:541:GLU:CG	1.90	1.19
2:K:27:LYS:HD3	2:L:95:GLN:O	1.39	1.19
1:A:90:MET:O	1:A:326:LYS:HD2	1.42	1.18
1:B:320:TRP:CZ2	1:B:343:SER:C	2.17	1.18
1:B:540:ASN:O	1:B:541:GLU:CG	1.90	1.18
1:C:264:ILE:HG21	1:C:269:GLN:HB3	1.23	1.18
1:C:338:LEU:CG	1:C:414:ALA:HB2	1.73	1.18
1:C:355:ARG:O	1:C:361:PRO:CD	1.90	1.18
1:C:540:ASN:O	1:C:541:GLU:CG	1.90	1.18
1:D:150:ILE:CD1	1:D:154:PHE:CE2	2.25	1.18
1:E:150:ILE:CD1	1:E:154:PHE:CE2	2.25	1.18
1:E:169:VAL:HB	1:E:286:GLU:OE1	1.36	1.18
1:E:320:TRP:CZ2	1:E:343:SER:C	2.17	1.18
1:F:338:LEU:CG	1:F:414:ALA:HB2	1.73	1.18
1:F:543:GLN:NE2	1:F:568:ILE:HG23	1.57	1.18
2:I:24:ALA:HA	2:I:71:VAL:HG13	1.22	1.18
2:K:129:GLU:O	2:L:6:GLN:HB2	1.39	1.18
1:A:543:GLN:NE2	1:A:568:ILE:HG23	1.57	1.18
1:B:90:MET:O	1:B:326:LYS:HD2	1.42	1.18
1:D:110:LYS:HE3	1:D:113:GLY:CA	1.72	1.18
1:E:499:PHE:HE2	1:E:532:TYR:OH	1.21	1.18
1:F:90:MET:O	1:F:326:LYS:HD2	1.42	1.18
1:F:150:ILE:CD1	1:F:154:PHE:CE2	2.25	1.18
1:B:264:ILE:HD13	1:B:269:GLN:HB3	1.24	1.18
1:B:338:LEU:HD11	1:B:393:ALA:HB3	1.22	1.18
1:D:499:PHE:HE2	1:D:532:TYR:OH	1.21	1.18
1:E:355:ARG:O	1:E:361:PRO:CD	1.90	1.18
2:J:18:LEU:N	2:J:74:MET:CE	2.07	1.18
1:A:355:ARG:O	1:A:361:PRO:CD	1.90	1.18
1:C:320:TRP:CZ2	1:C:343:SER:C	2.17	1.18
1:D:282:VAL:O	1:D:287:GLU:HB2	1.02	1.18
1:E:110:LYS:HE3	1:E:113:GLY:CA	1.72	1.18
2:I:18:LEU:N	2:I:74:MET:CE	2.07	1.18
1:A:269:GLN:O	1:A:277:PRO:HD2	1.39	1.18
2:K:18:LEU:N	2:K:74:MET:CE	2.07	1.18
1:A:282:VAL:HG13	1:A:287:GLU:CD	1.62	1.17
1:D:566:TYR:HD2	1:D:572:LYS:O	1.19	1.17
1:E:282:VAL:HG13	1:E:287:GLU:CD	1.62	1.17
1:E:543:GLN:NE2	1:E:568:ILE:HG23	1.57	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:320:TRP:CZ2	1:F:343:SER:C	2.17	1.17
1:F:566:TYR:HD2	1:F:572:LYS:O	1.19	1.17
2:J:129:GLU:O	2:K:6:GLN:HB2	1.39	1.17
1:D:92:ILE:CG1	1:D:326:LYS:HZ2	1.55	1.17
1:B:282:VAL:O	1:B:287:GLU:HB2	1.02	1.17
1:B:338:LEU:CG	1:B:414:ALA:HB2	1.73	1.17
1:D:527:ASP:HB3	2:K:136:ASP:OD2	1.00	1.17
1:A:338:LEU:CG	1:A:414:ALA:HB2	1.73	1.17
1:C:282:VAL:O	1:C:287:GLU:CB	1.93	1.17
2:G:24:ALA:HA	2:G:71:VAL:HG13	1.22	1.17
2:J:22:GLU:HB3	2:J:70:PHE:HE2	1.06	1.17
1:D:320:TRP:CZ2	1:D:343:SER:C	2.17	1.17
1:D:524:ILE:HG12	2:K:107:TYR:CE2	1.80	1.17
1:F:282:VAL:HG13	1:F:287:GLU:CD	1.62	1.17
2:H:18:LEU:N	2:H:74:MET:CE	2.07	1.17
2:I:127:GLU:C	2:J:8:THR:HG22	1.59	1.17
1:E:264:ILE:HD13	1:E:269:GLN:HB3	1.24	1.16
2:G:70:PHE:HB3	2:H:99:ARG:CD	1.75	1.16
2:G:99:ARG:CD	2:L:70:PHE:HB3	1.75	1.16
1:B:282:VAL:O	1:B:287:GLU:CB	1.93	1.16
1:C:338:LEU:HD11	1:C:393:ALA:HB3	1.22	1.16
1:D:282:VAL:HG13	1:D:287:GLU:CD	1.62	1.16
2:H:70:PHE:HB3	2:I:99:ARG:CD	1.75	1.16
2:J:27:LYS:HD3	2:K:95:GLN:O	1.38	1.16
2:K:127:GLU:C	2:L:8:THR:HG22	1.59	1.16
1:A:132:LEU:HG	1:A:148:ASP:HA	1.22	1.16
1:A:166:THR:HG23	1:A:171:HIS:O	1.37	1.16
1:F:132:LEU:HG	1:F:148:ASP:HA	1.22	1.16
2:J:68:SER:N	2:K:102:GLU:CD	1.99	1.16
2:K:70:PHE:HB3	2:L:99:ARG:CD	1.75	1.16
2:L:18:LEU:N	2:L:74:MET:CE	2.07	1.16
1:C:282:VAL:O	1:C:287:GLU:HB2	1.02	1.16
2:G:68:SER:N	2:H:102:GLU:CD	1.99	1.16
2:I:27:LYS:CG	2:J:95:GLN:HG3	1.76	1.16
2:J:70:PHE:HB3	2:K:99:ARG:CD	1.75	1.16
1:C:132:LEU:HG	1:C:148:ASP:HA	1.22	1.16
1:C:166:THR:HG23	1:C:171:HIS:O	1.37	1.16
1:E:264:ILE:HG21	1:E:269:GLN:HB3	1.23	1.16
2:J:27:LYS:CG	2:K:95:GLN:HG3	1.76	1.16
1:E:92:ILE:CD1	1:E:326:LYS:HZ2	1.59	1.15
2:G:99:ARG:HD2	2:L:70:PHE:HB3	1.25	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:68:SER:N	2:I:102:GLU:CD	1.99	1.15
2:L:24:ALA:HA	2:L:71:VAL:HG13	1.22	1.15
1:C:270:LEU:CA	1:C:277:PRO:HD3	1.76	1.15
1:C:535:ARG:HH22	2:J:135:GLU:CD	1.50	1.15
1:E:90:MET:O	1:E:326:LYS:HD2	1.42	1.15
1:E:270:LEU:HA	1:E:277:PRO:HD2	1.19	1.15
1:F:34:LYS:CB	1:F:422:SER:HB2	1.76	1.15
2:G:18:LEU:N	2:G:74:MET:CE	2.07	1.15
1:B:34:LYS:CB	1:B:422:SER:HB2	1.76	1.15
1:B:132:LEU:HG	1:B:148:ASP:HA	1.22	1.15
1:E:76:TRP:O	1:E:415:VAL:CG2	1.95	1.15
2:K:68:SER:N	2:L:102:GLU:CD	1.99	1.15
1:A:76:TRP:O	1:A:415:VAL:CG2	1.95	1.15
1:B:76:TRP:O	1:B:415:VAL:CG2	1.95	1.15
1:E:338:LEU:HB2	1:E:414:ALA:HB3	1.26	1.15
1:F:282:VAL:O	1:F:287:GLU:CB	1.93	1.15
2:G:102:GLU:CD	2:L:68:SER:N	1.99	1.15
2:I:70:PHE:HB3	2:J:99:ARG:CD	1.75	1.15
1:B:320:TRP:CZ2	1:B:344:VAL:HA	1.83	1.15
1:E:34:LYS:CB	1:E:422:SER:HB2	1.76	1.15
1:F:270:LEU:CA	1:F:277:PRO:HD3	1.76	1.15
1:A:110:LYS:HB3	1:A:192:SER:HB3	1.17	1.14
1:A:282:VAL:O	1:A:287:GLU:CB	1.93	1.14
1:C:34:LYS:CB	1:C:422:SER:HB2	1.76	1.14
1:C:93:GLU:OE2	1:C:112:TYR:N	1.80	1.14
1:C:107:ILE:HB	1:C:193:TYR:HD2	1.08	1.14
1:E:282:VAL:O	1:E:287:GLU:CB	1.93	1.14
2:I:68:SER:N	2:J:102:GLU:CD	1.99	1.14
1:A:34:LYS:CB	1:A:422:SER:HB2	1.76	1.14
1:B:166:THR:HG23	1:B:171:HIS:O	1.37	1.14
2:G:8:THR:HG22	2:L:127:GLU:C	1.59	1.14
2:G:95:GLN:HG3	2:L:27:LYS:CG	1.76	1.14
1:D:282:VAL:O	1:D:287:GLU:CB	1.93	1.14
2:J:63:PHE:C	2:K:94:ASP:OD1	1.86	1.14
2:K:22:GLU:HB3	2:K:70:PHE:HE2	1.06	1.14
1:B:93:GLU:OE2	1:B:112:TYR:N	1.80	1.14
1:D:34:LYS:CB	1:D:422:SER:HB2	1.76	1.14
1:D:76:TRP:O	1:D:415:VAL:CG2	1.95	1.14
2:I:63:PHE:C	2:J:94:ASP:OD1	1.86	1.14
2:K:27:LYS:CG	2:L:95:GLN:HG3	1.76	1.14
2:G:94:ASP:OD1	2:L:63:PHE:C	1.86	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:27:LYS:CG	2:I:95:GLN:HG3	1.76	1.14
2:K:63:PHE:C	2:L:94:ASP:OD1	1.86	1.14
1:E:111:ILE:O	1:E:189:GLU:HB3	1.47	1.13
1:E:270:LEU:CA	1:E:277:PRO:HD3	1.76	1.13
1:E:527:ASP:CB	2:L:136:ASP:OD2	1.95	1.13
1:F:76:TRP:O	1:F:415:VAL:CG2	1.95	1.13
1:F:90:MET:O	1:F:326:LYS:CE	1.97	1.13
2:H:22:GLU:HB3	2:H:70:PHE:HE2	1.06	1.13
2:J:24:ALA:HA	2:J:71:VAL:HG13	1.22	1.13
2:J:127:GLU:C	2:K:8:THR:HG22	1.59	1.13
1:D:93:GLU:OE2	1:D:112:TYR:N	1.81	1.13
1:D:320:TRP:CZ2	1:D:344:VAL:HA	1.83	1.13
2:G:24:ALA:HA	2:G:71:VAL:CG1	1.78	1.13
2:G:27:LYS:CG	2:H:95:GLN:HG3	1.76	1.13
1:A:320:TRP:CZ2	1:A:344:VAL:HA	1.83	1.13
1:B:264:ILE:HG21	1:B:269:GLN:HB3	1.23	1.13
1:C:76:TRP:O	1:C:415:VAL:CG2	1.95	1.13
1:C:320:TRP:CZ2	1:C:344:VAL:HA	1.83	1.13
1:D:107:ILE:HB	1:D:193:TYR:HD2	1.08	1.13
1:D:264:ILE:HG12	1:D:266:SER:H	1.11	1.13
1:E:320:TRP:CZ2	1:E:344:VAL:HA	1.83	1.13
1:F:264:ILE:HG12	1:F:266:SER:H	1.11	1.13
1:F:394:ASN:HB3	1:F:458:ILE:O	1.49	1.13
2:H:24:ALA:HA	2:H:71:VAL:CG1	1.78	1.13
1:A:338:LEU:HD11	1:A:393:ALA:HB3	1.23	1.13
1:B:60:LYS:O	1:B:64:ARG:HB3	1.49	1.13
1:C:60:LYS:O	1:C:64:ARG:HB3	1.49	1.13
1:E:93:GLU:OE2	1:E:112:TYR:N	1.80	1.13
1:F:110:LYS:HB3	1:F:192:SER:HB3	1.18	1.13
2:L:24:ALA:HA	2:L:71:VAL:CG1	1.78	1.13
1:C:394:ASN:HB3	1:C:458:ILE:O	1.48	1.13
1:D:528:PHE:CE1	2:K:107:TYR:HB3	1.82	1.12
1:E:90:MET:O	1:E:326:LYS:CE	1.97	1.12
1:F:270:LEU:CA	1:F:277:PRO:HD2	1.78	1.13
2:H:63:PHE:C	2:I:94:ASP:OD1	1.86	1.13
1:E:90:MET:O	1:E:326:LYS:CD	1.97	1.12
1:F:320:TRP:CZ2	1:F:344:VAL:HA	1.83	1.12
2:I:24:ALA:HA	2:I:71:VAL:CG1	1.78	1.12
2:K:70:PHE:HB3	2:L:99:ARG:HD2	1.25	1.12
1:A:90:MET:O	1:A:326:LYS:CE	1.97	1.12
1:A:93:GLU:OE2	1:A:112:TYR:N	1.81	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:CA	1:A:277:PRO:HD3	1.76	1.12
1:A:501:VAL:HG13	1:A:578:LEU:HD21	1.13	1.12
1:B:52:GLU:HG2	1:B:88:LEU:HD23	1.29	1.12
1:D:90:MET:O	1:D:326:LYS:CD	1.97	1.12
1:D:394:ASN:HB3	1:D:458:ILE:O	1.49	1.12
1:E:264:ILE:HG12	1:E:266:SER:H	1.11	1.12
1:E:394:ASN:HB3	1:E:458:ILE:O	1.49	1.12
1:F:93:GLU:OE2	1:F:112:TYR:N	1.80	1.12
2:G:63:PHE:C	2:H:94:ASP:OD1	1.86	1.12
1:A:60:LYS:O	1:A:64:ARG:HB3	1.49	1.12
1:A:111:ILE:O	1:A:189:GLU:HB3	1.47	1.12
1:B:43:GLU:CD	1:B:67:GLU:HG3	1.69	1.12
1:B:107:ILE:HB	1:B:193:TYR:HD2	1.08	1.12
1:C:92:ILE:CD1	1:C:326:LYS:NZ	2.13	1.12
1:D:92:ILE:CD1	1:D:326:LYS:NZ	2.13	1.12
1:D:110:LYS:HB3	1:D:192:SER:HB3	1.18	1.12
1:E:45:GLY:HA3	1:E:111:ILE:HG13	1.19	1.12
1:E:52:GLU:HG2	1:E:88:LEU:HD23	1.29	1.12
1:E:270:LEU:CA	1:E:277:PRO:HD2	1.78	1.12
1:F:111:ILE:O	1:F:189:GLU:HB3	1.47	1.12
1:B:270:LEU:CA	1:B:277:PRO:HD3	1.76	1.12
1:C:90:MET:O	1:C:326:LYS:CE	1.97	1.12
1:C:264:ILE:HG12	1:C:266:SER:H	1.11	1.12
1:D:60:LYS:O	1:D:64:ARG:HB3	1.49	1.12
1:D:111:ILE:O	1:D:189:GLU:HB3	1.47	1.12
1:D:338:LEU:HD11	1:D:393:ALA:HB3	1.22	1.12
1:F:43:GLU:CD	1:F:67:GLU:HG3	1.69	1.12
1:F:501:VAL:HG13	1:F:578:LEU:HD21	1.12	1.12
2:J:24:ALA:HA	2:J:71:VAL:CG1	1.78	1.12
1:B:92:ILE:CD1	1:B:326:LYS:NZ	2.13	1.12
1:C:43:GLU:CD	1:C:67:GLU:HG3	1.69	1.12
1:D:270:LEU:CA	1:D:277:PRO:HD2	1.78	1.12
1:F:90:MET:O	1:F:326:LYS:CD	1.97	1.12
1:F:92:ILE:CD1	1:F:326:LYS:NZ	2.13	1.11
2:H:128:GLU:N	2:I:8:THR:CG2	2.12	1.11
1:A:264:ILE:HG12	1:A:266:SER:H	1.11	1.11
1:B:338:LEU:CD1	1:B:414:ALA:CB	1.96	1.11
1:C:90:MET:O	1:C:326:LYS:CD	1.97	1.11
1:D:90:MET:O	1:D:326:LYS:CE	1.97	1.11
1:F:394:ASN:CB	1:F:458:ILE:O	1.99	1.11
1:A:92:ILE:CD1	1:A:326:LYS:NZ	2.13	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:GLY:HA3	1:B:111:ILE:CD1	1.80	1.11
1:B:394:ASN:HB3	1:B:458:ILE:O	1.48	1.11
1:C:39:ILE:HD13	1:C:327:PHE:HA	1.12	1.11
1:D:132:LEU:HG	1:D:148:ASP:HA	1.22	1.11
1:F:338:LEU:HB2	1:F:414:ALA:HB3	1.26	1.11
1:B:370:PHE:HE2	1:B:448:ASP:OD2	1.23	1.11
1:D:394:ASN:CB	1:D:458:ILE:O	1.99	1.11
1:F:60:LYS:O	1:F:64:ARG:HB3	1.49	1.11
2:I:22:GLU:HB3	2:I:70:PHE:CE2	1.81	1.11
2:K:24:ALA:HA	2:K:71:VAL:HG13	1.22	1.11
1:A:43:GLU:CD	1:A:67:GLU:HG3	1.69	1.11
1:B:90:MET:O	1:B:326:LYS:CD	1.97	1.11
1:B:537:LYS:CG	1:B:545:PHE:CE2	2.34	1.11
1:C:45:GLY:HA3	1:C:111:ILE:CD1	1.80	1.11
1:E:45:GLY:CA	1:E:111:ILE:CD1	2.29	1.11
1:E:132:LEU:HG	1:E:148:ASP:HA	1.22	1.11
1:F:270:LEU:HD22	1:F:274:GLY:HA2	1.33	1.11
2:G:70:PHE:HB3	2:H:99:ARG:HD2	1.25	1.11
2:K:70:PHE:CB	2:L:99:ARG:HD2	1.81	1.11
1:A:90:MET:O	1:A:326:LYS:CD	1.97	1.10
1:A:92:ILE:HD13	1:A:323:LYS:HA	1.24	1.10
1:A:264:ILE:HD13	1:A:269:GLN:HB3	1.24	1.10
1:A:264:ILE:HG21	1:A:269:GLN:HB3	1.23	1.10
1:B:394:ASN:CB	1:B:458:ILE:O	1.99	1.10
1:C:39:ILE:CD1	1:C:327:PHE:CA	2.29	1.10
1:E:92:ILE:HD13	1:E:323:LYS:HA	1.24	1.10
1:F:92:ILE:CG1	1:F:326:LYS:NZ	2.14	1.10
1:F:92:ILE:HG13	1:F:326:LYS:NZ	1.66	1.10
2:I:22:GLU:HB3	2:I:70:PHE:HE2	1.06	1.10
1:A:92:ILE:CD1	1:A:326:LYS:HZ2	1.64	1.10
1:A:408:VAL:C	1:A:409:PRO:CD	2.20	1.10
1:B:39:ILE:CD1	1:B:327:PHE:CA	2.29	1.10
1:B:45:GLY:HA3	1:B:111:ILE:HG13	1.19	1.10
1:B:92:ILE:HD13	1:B:323:LYS:HA	1.24	1.10
1:B:92:ILE:CG1	1:B:326:LYS:NZ	2.14	1.10
1:B:111:ILE:O	1:B:189:GLU:HB3	1.47	1.10
1:C:92:ILE:HG13	1:C:326:LYS:NZ	1.66	1.10
1:C:110:LYS:HB3	1:C:192:SER:HB3	1.17	1.10
1:C:111:ILE:O	1:C:189:GLU:HB3	1.47	1.10
1:C:270:LEU:CA	1:C:277:PRO:HD2	1.78	1.10
2:G:6:GLN:HG2	2:L:130:VAL:N	0.84	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:22:GLU:HB3	2:H:70:PHE:CE2	1.81	1.10
2:L:22:GLU:HB3	2:L:70:PHE:HE2	1.06	1.10
1:A:394:ASN:HB3	1:A:458:ILE:O	1.48	1.10
1:B:39:ILE:HD11	1:B:327:PHE:CB	1.78	1.10
1:B:110:LYS:HB3	1:B:192:SER:HB3	1.18	1.10
1:B:264:ILE:HD12	1:B:269:GLN:HG2	1.12	1.10
1:B:338:LEU:HD12	1:B:414:ALA:CA	1.81	1.10
1:C:45:GLY:CA	1:C:111:ILE:HD11	1.82	1.10
1:C:92:ILE:CG1	1:C:326:LYS:NZ	2.15	1.10
1:C:264:ILE:HD12	1:C:269:GLN:HG2	1.12	1.10
1:C:394:ASN:CB	1:C:458:ILE:O	1.99	1.10
1:D:39:ILE:HD11	1:D:327:PHE:CB	1.78	1.10
1:D:45:GLY:HA3	1:D:111:ILE:CD1	1.80	1.10
1:D:45:GLY:CA	1:D:111:ILE:CD1	2.29	1.10
1:D:52:GLU:HG2	1:D:88:LEU:HD23	1.29	1.10
1:D:92:ILE:HG13	1:D:326:LYS:CE	1.82	1.10
1:D:537:LYS:CG	1:D:545:PHE:CE2	2.34	1.10
1:E:394:ASN:CB	1:E:458:ILE:O	1.99	1.10
2:G:70:PHE:CB	2:H:99:ARG:HD2	1.81	1.10
2:G:127:GLU:C	2:H:8:THR:HG22	1.59	1.10
2:H:24:ALA:HA	2:H:71:VAL:HG13	1.22	1.10
2:K:128:GLU:N	2:L:8:THR:CG2	2.12	1.10
1:A:52:GLU:HG2	1:A:88:LEU:HD23	1.29	1.10
1:B:90:MET:O	1:B:326:LYS:CE	1.97	1.10
1:C:45:GLY:HA3	1:C:111:ILE:HG13	1.19	1.10
1:C:338:LEU:HB2	1:C:414:ALA:HB3	1.26	1.10
1:D:39:ILE:CD1	1:D:327:PHE:CA	2.29	1.10
1:D:92:ILE:HG13	1:D:326:LYS:NZ	1.66	1.10
1:F:81:ASN:HA	1:F:84:ALA:HB3	1.10	1.10
1:F:154:PHE:CE1	1:F:199:ALA:HB2	1.87	1.10
1:F:335:ILE:O	1:F:337:PRO:CD	2.00	1.10
2:H:70:PHE:CB	2:I:99:ARG:HD2	1.81	1.10
2:K:24:ALA:HA	2:K:71:VAL:CG1	1.78	1.10
1:A:39:ILE:CD1	1:A:327:PHE:CA	2.29	1.10
1:A:45:GLY:HA3	1:A:111:ILE:CD1	1.80	1.10
1:A:92:ILE:CG1	1:A:326:LYS:NZ	2.15	1.10
1:A:394:ASN:CB	1:A:458:ILE:O	1.99	1.10
1:A:537:LYS:CG	1:A:545:PHE:CE2	2.34	1.10
1:B:408:VAL:C	1:B:409:PRO:CD	2.20	1.10
1:C:92:ILE:HG13	1:C:326:LYS:CE	1.82	1.10
1:C:92:ILE:CG1	1:C:326:LYS:HZ2	1.65	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:LYS:CG	1:C:545:PHE:CE2	2.34	1.10
1:D:154:PHE:CE1	1:D:199:ALA:HB2	1.87	1.10
1:E:51:TYR:CE2	1:E:62:LEU:HD13	1.87	1.10
1:F:45:GLY:CA	1:F:111:ILE:CD1	2.29	1.10
1:F:52:GLU:HG2	1:F:88:LEU:HD23	1.29	1.10
2:G:99:ARG:HD2	2:L:70:PHE:CB	1.81	1.10
1:A:81:ASN:HA	1:A:84:ALA:HB3	1.10	1.09
1:A:92:ILE:HG13	1:A:326:LYS:NZ	1.66	1.09
1:A:338:LEU:HD12	1:A:414:ALA:CA	1.81	1.09
1:B:39:ILE:HD13	1:B:327:PHE:HA	1.12	1.09
1:B:51:TYR:CE2	1:B:62:LEU:HD13	1.87	1.09
1:C:52:GLU:HG2	1:C:88:LEU:HD23	1.29	1.09
1:C:92:ILE:HD13	1:C:323:LYS:HA	1.24	1.09
1:D:43:GLU:CD	1:D:67:GLU:HG3	1.69	1.09
1:D:51:TYR:CE2	1:D:62:LEU:HD13	1.87	1.09
1:D:92:ILE:CG1	1:D:326:LYS:NZ	2.14	1.09
1:E:45:GLY:HA3	1:E:111:ILE:CD1	1.80	1.09
1:E:335:ILE:O	1:E:337:PRO:CD	2.00	1.09
1:E:370:PHE:HE2	1:E:448:ASP:OD2	1.23	1.09
1:E:566:TYR:CD2	1:E:572:LYS:O	2.05	1.09
1:F:92:ILE:HG13	1:F:326:LYS:CE	1.82	1.09
1:F:408:VAL:C	1:F:409:PRO:CD	2.20	1.09
2:G:99:ARG:CG	2:L:70:PHE:HB3	1.82	1.09
2:G:128:GLU:N	2:H:8:THR:CG2	2.12	1.09
2:I:70:PHE:HB3	2:J:99:ARG:CG	1.82	1.09
2:I:70:PHE:HB3	2:J:99:ARG:HD2	1.25	1.09
1:A:45:GLY:CA	1:A:111:ILE:CD1	2.29	1.09
1:A:107:ILE:HB	1:A:193:TYR:HD2	1.08	1.09
1:A:154:PHE:CE1	1:A:199:ALA:HB2	1.87	1.09
1:B:45:GLY:CA	1:B:111:ILE:HD11	1.82	1.09
1:B:338:LEU:HB2	1:B:414:ALA:HB3	1.26	1.09
1:C:553:ILE:CD1	1:C:555:GLU:HB2	1.83	1.09
1:D:45:GLY:CA	1:D:111:ILE:HD11	1.82	1.09
1:D:270:LEU:CA	1:D:277:PRO:HD3	1.76	1.09
1:D:566:TYR:CD2	1:D:572:LYS:O	2.05	1.09
1:E:60:LYS:O	1:E:64:ARG:HB3	1.49	1.09
1:E:270:LEU:HD22	1:E:274:GLY:HA2	1.33	1.09
1:E:427:GLY:O	1:E:495:GLU:HG2	1.37	1.09
1:E:537:LYS:CG	1:E:545:PHE:CE2	2.34	1.09
1:F:34:LYS:HB2	1:F:422:SER:CB	1.82	1.09
2:H:70:PHE:HB3	2:I:99:ARG:CG	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:70:PHE:CB	2:J:99:ARG:HD2	1.81	1.09
2:J:70:PHE:HB3	2:K:99:ARG:HD2	1.25	1.09
2:K:24:ALA:HA	2:K:71:VAL:HA	1.34	1.09
2:K:27:LYS:HG2	2:L:95:GLN:CG	1.83	1.09
1:A:92:ILE:HG13	1:A:326:LYS:CE	1.82	1.09
1:C:34:LYS:HB2	1:C:422:SER:CB	1.82	1.09
1:D:39:ILE:HD13	1:D:327:PHE:HA	1.12	1.09
1:D:408:VAL:C	1:D:409:PRO:CD	2.20	1.09
1:E:39:ILE:CD1	1:E:327:PHE:CA	2.29	1.09
1:E:92:ILE:HG13	1:E:326:LYS:NZ	1.66	1.09
1:E:107:ILE:HB	1:E:193:TYR:HD2	1.08	1.09
1:E:154:PHE:CE1	1:E:199:ALA:HB2	1.87	1.09
1:E:338:LEU:HD12	1:E:414:ALA:CA	1.81	1.09
1:E:501:VAL:HG13	1:E:578:LEU:HD21	1.13	1.09
1:F:39:ILE:CD1	1:F:327:PHE:CA	2.29	1.09
1:F:45:GLY:HA3	1:F:111:ILE:CD1	1.80	1.09
1:F:264:ILE:HG21	1:F:269:GLN:HB3	1.23	1.09
2:J:70:PHE:HB3	2:K:99:ARG:CG	1.82	1.09
2:J:70:PHE:CB	2:K:99:ARG:HD2	1.81	1.09
2:K:130:VAL:CG2	2:L:6:GLN:CG	2.31	1.09
2:L:24:ALA:HA	2:L:71:VAL:HA	1.34	1.09
1:A:45:GLY:CA	1:A:111:ILE:HD11	1.82	1.09
1:A:335:ILE:O	1:A:337:PRO:CD	2.00	1.09
1:A:338:LEU:HB2	1:A:414:ALA:HB3	1.26	1.09
1:B:45:GLY:CA	1:B:111:ILE:CD1	2.29	1.09
1:B:427:GLY:O	1:B:495:GLU:HG2	1.37	1.09
1:C:39:ILE:HD11	1:C:327:PHE:CB	1.78	1.09
1:C:45:GLY:CA	1:C:111:ILE:CD1	2.29	1.09
1:C:338:LEU:HD12	1:C:414:ALA:CA	1.81	1.09
1:C:501:VAL:HG13	1:C:578:LEU:HD21	1.12	1.09
1:D:34:LYS:HB2	1:D:422:SER:CB	1.82	1.09
1:E:45:GLY:CA	1:E:111:ILE:HD11	1.82	1.09
1:E:81:ASN:HA	1:E:84:ALA:HB3	1.10	1.09
1:E:92:ILE:CD1	1:E:326:LYS:NZ	2.13	1.09
1:E:408:VAL:C	1:E:409:PRO:CD	2.20	1.09
1:F:338:LEU:HD12	1:F:414:ALA:CA	1.81	1.09
2:H:27:LYS:HE2	2:I:95:GLN:CD	1.73	1.09
2:H:27:LYS:HG2	2:I:95:GLN:CG	1.83	1.09
2:I:27:LYS:HE2	2:J:95:GLN:CD	1.73	1.09
2:I:128:GLU:N	2:J:8:THR:CG2	2.12	1.09
1:A:45:GLY:HA3	1:A:111:ILE:HG13	1.19	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:TYR:CE2	1:A:62:LEU:HD13	1.87	1.09
1:B:92:ILE:HG13	1:B:326:LYS:CE	1.82	1.09
1:C:408:VAL:C	1:C:409:PRO:CD	2.20	1.09
1:C:427:GLY:O	1:C:495:GLU:HG2	1.37	1.09
1:D:338:LEU:HB2	1:D:414:ALA:HB3	1.26	1.09
1:D:427:GLY:O	1:D:495:GLU:HG2	1.37	1.09
1:D:501:VAL:HG13	1:D:578:LEU:HD21	1.13	1.09
1:E:43:GLU:CD	1:E:67:GLU:HG3	1.69	1.09
1:F:45:GLY:HA3	1:F:111:ILE:HG13	1.19	1.09
1:F:51:TYR:CE2	1:F:62:LEU:HD13	1.87	1.09
1:F:338:LEU:HD11	1:F:393:ALA:HB3	1.22	1.09
2:G:130:VAL:CG2	2:H:6:GLN:CG	2.31	1.09
2:H:70:PHE:HB3	2:I:99:ARG:HD2	1.25	1.09
2:J:130:VAL:CG2	2:K:6:GLN:CG	2.31	1.09
1:A:93:GLU:O	1:A:140:ASP:OD1	1.71	1.08
1:A:427:GLY:O	1:A:495:GLU:HG2	1.37	1.08
1:A:553:ILE:HD11	1:A:555:GLU:HB2	1.35	1.08
1:C:92:ILE:HD11	1:C:326:LYS:NZ	1.68	1.08
1:C:335:ILE:O	1:C:337:PRO:CD	2.00	1.08
1:D:45:GLY:HA3	1:D:111:ILE:HG13	1.19	1.08
1:D:335:ILE:HG13	1:D:362:MET:HE3	1.35	1.08
1:D:338:LEU:HD12	1:D:414:ALA:CA	1.81	1.08
1:D:553:ILE:CD1	1:D:555:GLU:HB2	1.83	1.08
1:E:34:LYS:HD2	1:E:422:SER:OG	1.53	1.08
1:E:39:ILE:HD11	1:E:327:PHE:CB	1.78	1.08
1:F:427:GLY:O	1:F:495:GLU:HG2	1.37	1.08
2:I:68:SER:N	2:J:102:GLU:OE1	1.87	1.08
2:I:130:VAL:N	2:J:6:GLN:HG2	0.84	1.08
2:I:130:VAL:CA	2:J:6:GLN:HG2	1.83	1.08
1:A:39:ILE:HD11	1:A:327:PHE:CB	1.78	1.08
1:A:76:TRP:CD1	1:A:415:VAL:HB	1.88	1.08
1:B:81:ASN:HA	1:B:84:ALA:HB3	1.10	1.08
1:B:92:ILE:HD11	1:B:326:LYS:NZ	1.69	1.08
1:B:154:PHE:CE1	1:B:199:ALA:HB2	1.87	1.08
1:B:553:ILE:CD1	1:B:555:GLU:HB2	1.83	1.08
1:D:92:ILE:HD13	1:D:323:LYS:HA	1.24	1.08
1:E:92:ILE:HG13	1:E:326:LYS:CE	1.82	1.08
1:F:34:LYS:HD2	1:F:422:SER:OG	1.53	1.08
1:F:264:ILE:HD13	1:F:269:GLN:HB3	1.24	1.08
2:H:130:VAL:CG2	2:I:6:GLN:CG	2.31	1.08
2:J:27:LYS:HG2	2:K:95:GLN:CG	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:ILE:HG13	1:B:326:LYS:NZ	1.66	1.08
1:B:335:ILE:O	1:B:337:PRO:CD	2.00	1.08
1:B:338:LEU:CG	1:B:414:ALA:CB	2.30	1.08
1:C:51:TYR:CE2	1:C:62:LEU:HD13	1.87	1.08
1:C:154:PHE:CE1	1:C:199:ALA:HB2	1.87	1.08
1:D:335:ILE:O	1:D:337:PRO:CD	2.00	1.08
1:D:338:LEU:CD1	1:D:414:ALA:CB	1.96	1.08
1:D:528:PHE:CE1	2:K:107:TYR:CB	2.37	1.08
1:F:45:GLY:CA	1:F:111:ILE:HD11	1.82	1.08
2:G:27:LYS:HE2	2:H:95:GLN:CD	1.73	1.08
2:G:95:GLN:CG	2:L:27:LYS:HG2	1.83	1.08
2:J:68:SER:N	2:K:102:GLU:OE1	1.87	1.08
2:J:130:VAL:CA	2:K:6:GLN:HG2	1.83	1.08
2:K:70:PHE:HB3	2:L:99:ARG:CG	1.82	1.08
1:A:34:LYS:HD2	1:A:422:SER:OG	1.54	1.08
1:A:92:ILE:HD11	1:A:326:LYS:NZ	1.68	1.08
1:B:76:TRP:CD1	1:B:415:VAL:HB	1.88	1.08
1:B:93:GLU:O	1:B:140:ASP:OD1	1.71	1.08
1:B:264:ILE:HG12	1:B:266:SER:H	1.11	1.08
1:D:76:TRP:CD1	1:D:415:VAL:HB	1.88	1.08
1:D:92:ILE:HD11	1:D:326:LYS:NZ	1.69	1.08
1:D:335:ILE:HG13	1:D:362:MET:HE1	1.14	1.08
1:D:553:ILE:HD11	1:D:555:GLU:HB2	1.35	1.08
1:E:92:ILE:CG1	1:E:326:LYS:NZ	2.15	1.08
1:F:537:LYS:CG	1:F:545:PHE:CE2	2.34	1.08
2:G:6:GLN:CG	2:L:130:VAL:CG2	2.31	1.08
2:G:70:PHE:HB3	2:H:99:ARG:CG	1.82	1.08
2:G:95:GLN:CD	2:L:27:LYS:HE2	1.73	1.08
2:H:68:SER:N	2:I:102:GLU:OE1	1.87	1.08
2:I:24:ALA:C	2:I:71:VAL:HG13	1.74	1.08
2:I:27:LYS:HG2	2:J:95:GLN:CG	1.83	1.08
2:K:27:LYS:HE2	2:L:95:GLN:CD	1.73	1.08
1:A:335:ILE:HG13	1:A:362:MET:HE1	1.11	1.08
1:A:553:ILE:CD1	1:A:555:GLU:HB2	1.83	1.08
1:B:566:TYR:CD2	1:B:572:LYS:O	2.05	1.08
1:C:338:LEU:O	1:C:412:MET:CE	2.02	1.08
1:D:34:LYS:HD2	1:D:422:SER:OG	1.54	1.08
1:D:81:ASN:HA	1:D:84:ALA:HB3	1.10	1.08
1:D:338:LEU:CG	1:D:414:ALA:CB	2.30	1.08
1:E:110:LYS:HB3	1:E:192:SER:HB3	1.18	1.08
1:E:264:ILE:HD12	1:E:269:GLN:HG2	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:LYS:CD	1:F:422:SER:CB	2.22	1.08
1:F:107:ILE:HB	1:F:193:TYR:HD2	1.08	1.08
1:F:277:PRO:CD	1:F:277:PRO:N	2.13	1.08
1:F:553:ILE:CD1	1:F:555:GLU:HB2	1.83	1.08
2:G:27:LYS:HG2	2:H:95:GLN:CG	1.83	1.08
2:J:71:VAL:HG22	2:K:98:GLY:HA3	1.35	1.08
2:J:71:VAL:HG22	2:K:98:GLY:CA	1.84	1.08
2:K:68:SER:N	2:L:102:GLU:OE1	1.87	1.08
2:K:71:VAL:HG22	2:L:98:GLY:HA3	1.35	1.08
1:A:34:LYS:HB2	1:A:422:SER:CB	1.82	1.07
1:A:270:LEU:CA	1:A:277:PRO:HD2	1.78	1.07
1:A:370:PHE:HE2	1:A:448:ASP:OD2	1.23	1.07
1:A:566:TYR:CD2	1:A:572:LYS:O	2.05	1.07
1:B:34:LYS:HB2	1:B:422:SER:CB	1.82	1.07
1:C:81:ASN:HA	1:C:84:ALA:HB3	1.10	1.07
1:C:338:LEU:CG	1:C:414:ALA:CB	2.30	1.07
1:D:170:GLU:CD	1:D:287:GLU:HA	1.62	1.07
1:E:34:LYS:HB2	1:E:422:SER:CB	1.82	1.07
1:E:93:GLU:O	1:E:140:ASP:OD1	1.71	1.07
1:E:338:LEU:HD11	1:E:393:ALA:HB3	1.22	1.07
1:E:409:PRO:CD	1:E:409:PRO:N	2.15	1.07
1:F:566:TYR:CD2	1:F:572:LYS:O	2.05	1.07
2:G:8:THR:CG2	2:L:128:GLU:N	2.12	1.07
2:G:22:GLU:HB3	2:G:70:PHE:HE2	1.06	1.07
2:G:102:GLU:OE1	2:L:68:SER:N	1.87	1.07
2:H:71:VAL:HG22	2:I:98:GLY:CA	1.84	1.07
2:I:71:VAL:HG22	2:J:98:GLY:CA	1.84	1.07
2:J:27:LYS:HE2	2:K:95:GLN:CD	1.73	1.07
2:K:24:ALA:C	2:K:71:VAL:HG13	1.74	1.07
1:A:150:ILE:HD12	1:A:154:PHE:CD2	1.89	1.07
1:B:553:ILE:HD11	1:B:555:GLU:HB2	1.35	1.07
1:C:566:TYR:CD2	1:C:572:LYS:O	2.05	1.07
1:E:76:TRP:CD1	1:E:415:VAL:HB	1.88	1.07
1:E:338:LEU:O	1:E:412:MET:CE	2.02	1.07
1:F:150:ILE:HD12	1:F:154:PHE:CD2	1.89	1.07
1:F:270:LEU:HA	1:F:277:PRO:HD2	1.19	1.07
2:G:130:VAL:N	2:H:6:GLN:HG2	0.84	1.07
2:H:130:VAL:CA	2:I:6:GLN:HG2	1.83	1.07
1:A:264:ILE:CD1	1:A:269:GLN:CG	2.33	1.07
1:A:264:ILE:HD12	1:A:269:GLN:HG2	1.12	1.07
1:A:270:LEU:HD22	1:A:274:GLY:HA2	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:LEU:CA	1:B:277:PRO:HD2	1.78	1.07
1:C:76:TRP:CD1	1:C:415:VAL:HB	1.88	1.07
1:D:264:ILE:HD12	1:D:269:GLN:HG2	1.12	1.07
1:E:553:ILE:CD1	1:E:555:GLU:HB2	1.83	1.07
1:F:76:TRP:CD1	1:F:415:VAL:HB	1.88	1.07
2:G:6:GLN:HG2	2:L:130:VAL:CA	1.83	1.07
1:B:170:GLU:CD	1:B:287:GLU:HA	1.62	1.07
1:B:409:PRO:CD	1:B:409:PRO:N	2.15	1.07
1:C:264:ILE:CD1	1:C:269:GLN:CG	2.33	1.07
1:D:119:ILE:CG2	1:D:181:LEU:CD1	2.30	1.07
1:D:264:ILE:CD1	1:D:269:GLN:CG	2.33	1.07
1:E:553:ILE:HD11	1:E:555:GLU:HB2	1.35	1.07
1:F:370:PHE:HE2	1:F:448:ASP:OD2	1.23	1.07
2:I:130:VAL:CG2	2:J:6:GLN:CG	2.31	1.07
2:J:24:ALA:HA	2:J:71:VAL:HA	1.34	1.07
2:J:128:GLU:N	2:K:8:THR:CG2	2.12	1.07
2:L:24:ALA:C	2:L:71:VAL:HG13	1.74	1.07
1:A:264:ILE:CD1	1:A:269:GLN:CB	2.33	1.07
1:B:119:ILE:CG2	1:B:181:LEU:CD1	2.30	1.07
1:B:270:LEU:HD22	1:B:274:GLY:HA2	1.33	1.07
1:B:335:ILE:HG13	1:B:362:MET:HE1	1.08	1.07
1:B:338:LEU:O	1:B:412:MET:CE	2.02	1.07
1:D:338:LEU:O	1:D:412:MET:CE	2.02	1.07
1:F:335:ILE:CG1	1:F:362:MET:CE	2.33	1.07
1:F:338:LEU:CD1	1:F:393:ALA:CB	2.33	1.07
2:G:98:GLY:CA	2:L:71:VAL:HG22	1.84	1.07
2:G:130:VAL:CA	2:H:6:GLN:HG2	1.83	1.07
2:J:24:ALA:C	2:J:71:VAL:HG13	1.74	1.07
1:A:335:ILE:CG1	1:A:362:MET:CE	2.33	1.06
1:C:553:ILE:HD11	1:C:555:GLU:HB2	1.35	1.06
1:D:335:ILE:CG1	1:D:362:MET:HE3	1.84	1.06
1:E:335:ILE:CG1	1:E:362:MET:CE	2.33	1.06
1:F:92:ILE:HD13	1:F:323:LYS:HA	1.24	1.06
1:F:93:GLU:O	1:F:140:ASP:OD1	1.71	1.06
1:F:259:THR:HB	1:F:261:TYR:HE1	1.19	1.06
2:G:24:ALA:HA	2:G:71:VAL:HA	1.34	1.06
1:B:43:GLU:CD	1:B:67:GLU:CG	2.20	1.06
1:B:264:ILE:CD1	1:B:269:GLN:CB	2.33	1.06
1:C:150:ILE:HD12	1:C:154:PHE:CD2	1.89	1.06
1:C:270:LEU:HD22	1:C:274:GLY:HA2	1.33	1.06
1:E:92:ILE:HD11	1:E:326:LYS:NZ	1.68	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:338:LEU:CG	1:E:414:ALA:CB	2.30	1.06
1:F:39:ILE:HD13	1:F:327:PHE:HA	1.12	1.06
1:F:264:ILE:CD1	1:F:269:GLN:CB	2.33	1.06
1:F:264:ILE:HD12	1:F:269:GLN:HG2	1.12	1.06
2:G:71:VAL:HG22	2:H:98:GLY:CA	1.84	1.06
2:J:130:VAL:HG23	2:K:6:GLN:HG3	1.38	1.06
1:A:39:ILE:HD13	1:A:327:PHE:HA	1.12	1.06
1:A:112:TYR:N	1:A:141:ASP:CB	2.18	1.06
1:A:338:LEU:O	1:A:412:MET:CE	2.02	1.06
1:B:34:LYS:HD2	1:B:422:SER:OG	1.53	1.06
1:B:150:ILE:HD12	1:B:154:PHE:CD2	1.89	1.06
1:B:501:VAL:HG13	1:B:578:LEU:HD21	1.13	1.06
1:D:93:GLU:O	1:D:140:ASP:OD1	1.71	1.06
1:D:409:PRO:CD	1:D:409:PRO:N	2.15	1.06
1:E:150:ILE:HD12	1:E:154:PHE:CD2	1.89	1.06
1:F:425:GLU:OE1	1:F:492:ALA:HB1	1.56	1.06
2:K:63:PHE:CA	2:L:96:SER:HB2	1.86	1.06
2:K:71:VAL:HG22	2:L:98:GLY:CA	1.84	1.06
1:B:47:PRO:N	1:B:47:PRO:CD	2.18	1.06
1:B:264:ILE:CD1	1:B:269:GLN:CG	2.33	1.06
1:C:335:ILE:CG1	1:C:362:MET:CE	2.33	1.06
1:C:524:ILE:HG12	2:J:107:TYR:CE2	1.89	1.06
1:D:45:GLY:N	1:D:189:GLU:OE1	1.88	1.06
1:E:32:SER:HB3	1:E:426:ILE:CG2	1.86	1.06
1:E:39:ILE:HD13	1:E:327:PHE:HA	1.12	1.06
1:F:92:ILE:HD11	1:F:326:LYS:NZ	1.69	1.06
1:F:338:LEU:O	1:F:412:MET:CE	2.02	1.06
2:G:63:PHE:C	2:H:96:SER:HB2	1.76	1.06
2:H:24:ALA:C	2:H:71:VAL:HG13	1.74	1.06
2:H:130:VAL:HG23	2:I:6:GLN:HG3	1.38	1.06
2:J:63:PHE:CA	2:K:96:SER:HB2	1.86	1.06
2:K:130:VAL:CA	2:L:6:GLN:HG2	1.83	1.06
1:A:92:ILE:CD1	1:A:323:LYS:HA	1.86	1.06
1:A:338:LEU:CD1	1:A:393:ALA:CB	2.34	1.06
1:B:264:ILE:HD13	1:B:269:GLN:CG	1.86	1.06
1:C:32:SER:HB3	1:C:426:ILE:CG2	1.86	1.06
1:C:264:ILE:HD13	1:C:269:GLN:CG	1.86	1.06
1:C:264:ILE:CD1	1:C:269:GLN:CB	2.33	1.06
1:E:45:GLY:N	1:E:189:GLU:OE1	1.88	1.06
1:E:264:ILE:CD1	1:E:269:GLN:CG	2.33	1.06
1:E:425:GLU:OE1	1:E:492:ALA:HB1	1.56	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:ILE:HD11	1:F:327:PHE:CB	1.78	1.06
1:F:264:ILE:CD1	1:F:269:GLN:CG	2.33	1.06
1:B:93:GLU:HB2	1:B:140:ASP:CG	1.75	1.05
1:B:112:TYR:N	1:B:141:ASP:CB	2.18	1.05
1:C:34:LYS:HD2	1:C:422:SER:OG	1.53	1.05
1:C:92:ILE:CD1	1:C:323:LYS:HA	1.86	1.05
1:C:93:GLU:O	1:C:140:ASP:OD1	1.71	1.05
1:C:112:TYR:N	1:C:141:ASP:CB	2.18	1.05
1:D:92:ILE:CD1	1:D:323:LYS:HA	1.86	1.05
1:D:93:GLU:HB2	1:D:140:ASP:CG	1.75	1.05
1:D:335:ILE:CG1	1:D:362:MET:CE	2.33	1.05
1:D:338:LEU:HB3	1:D:412:MET:HE3	1.35	1.05
1:E:259:THR:HB	1:E:261:TYR:HE1	1.19	1.05
1:E:264:ILE:CD1	1:E:269:GLN:CB	2.33	1.05
1:F:76:TRP:HA	1:F:415:VAL:HG21	1.06	1.05
1:F:112:TYR:N	1:F:141:ASP:CB	2.18	1.05
2:G:63:PHE:CA	2:H:96:SER:HB2	1.86	1.05
2:G:68:SER:N	2:H:102:GLU:OE1	1.87	1.05
2:G:96:SER:HB2	2:L:63:PHE:CA	1.86	1.05
1:B:92:ILE:CD1	1:B:326:LYS:HZ1	1.68	1.05
1:B:134:LEU:CD2	1:B:143:PHE:CE1	2.39	1.05
1:B:338:LEU:CD1	1:B:393:ALA:CB	2.34	1.05
1:C:134:LEU:CD2	1:C:143:PHE:CE1	2.39	1.05
1:C:277:PRO:CD	1:C:277:PRO:N	2.13	1.05
1:D:264:ILE:CD1	1:D:269:GLN:CB	2.33	1.05
1:E:34:LYS:CD	1:E:422:SER:CB	2.22	1.05
1:E:338:LEU:CD1	1:E:393:ALA:CB	2.34	1.05
2:H:63:PHE:C	2:I:96:SER:HB2	1.76	1.05
1:A:45:GLY:N	1:A:189:GLU:OE1	1.88	1.05
1:A:93:GLU:HB2	1:A:140:ASP:CG	1.75	1.05
1:A:425:GLU:OE1	1:A:492:ALA:HB1	1.56	1.05
1:C:338:LEU:CD1	1:C:393:ALA:CB	2.34	1.05
1:D:32:SER:HB3	1:D:426:ILE:CG2	1.86	1.05
1:D:270:LEU:HA	1:D:277:PRO:HD2	1.19	1.05
1:E:134:LEU:CD2	1:E:143:PHE:CE1	2.39	1.05
1:E:183:LEU:HD11	1:E:192:SER:OG	1.56	1.05
1:E:269:GLN:C	1:E:277:PRO:HD2	1.77	1.05
1:E:338:LEU:O	1:E:412:MET:HE3	1.56	1.05
2:I:63:PHE:CA	2:J:96:SER:HB2	1.86	1.05
2:K:130:VAL:N	2:L:6:GLN:HG2	0.84	1.05
1:A:34:LYS:CD	1:A:422:SER:CB	2.22	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:GLN:C	1:A:277:PRO:HD2	1.77	1.05
1:B:92:ILE:CD1	1:B:323:LYS:HA	1.86	1.05
1:B:269:GLN:C	1:B:277:PRO:HD2	1.77	1.05
1:C:45:GLY:N	1:C:189:GLU:OE1	1.88	1.05
1:C:170:GLU:CD	1:C:287:GLU:HA	1.63	1.05
1:D:112:TYR:N	1:D:141:ASP:CB	2.18	1.05
1:D:150:ILE:HD12	1:D:154:PHE:CD2	1.89	1.05
1:F:93:GLU:HB2	1:F:140:ASP:CG	1.75	1.05
1:F:264:ILE:HD13	1:F:269:GLN:CG	1.86	1.05
2:G:96:SER:HB2	2:L:63:PHE:C	1.76	1.05
2:H:130:VAL:N	2:I:6:GLN:HG2	0.84	1.05
2:J:63:PHE:C	2:K:96:SER:HB2	1.76	1.05
2:J:130:VAL:N	2:K:6:GLN:HG2	0.84	1.05
1:A:259:THR:HB	1:A:261:TYR:HE1	1.19	1.05
1:A:338:LEU:CG	1:A:414:ALA:CB	2.30	1.05
1:D:269:GLN:C	1:D:277:PRO:HD2	1.77	1.05
1:E:76:TRP:HA	1:E:415:VAL:HG21	1.06	1.05
1:E:93:GLU:HB2	1:E:140:ASP:CG	1.75	1.05
1:E:264:ILE:HD13	1:E:269:GLN:CG	1.86	1.05
1:F:338:LEU:CD1	1:F:414:ALA:CB	1.96	1.05
1:F:338:LEU:CG	1:F:414:ALA:CB	2.30	1.05
1:F:409:PRO:CD	1:F:409:PRO:N	2.15	1.05
1:F:553:ILE:HD11	1:F:555:GLU:HB2	1.35	1.05
2:G:24:ALA:C	2:G:71:VAL:HG13	1.74	1.05
2:G:96:SER:HB2	2:L:63:PHE:HA	1.38	1.05
2:G:130:VAL:HG23	2:H:6:GLN:HG3	1.37	1.05
2:H:63:PHE:CA	2:I:96:SER:HB2	1.86	1.05
1:A:264:ILE:HD13	1:A:269:GLN:CG	1.86	1.04
1:B:45:GLY:N	1:B:189:GLU:OE1	1.88	1.04
1:B:335:ILE:CG1	1:B:362:MET:CE	2.33	1.04
1:C:93:GLU:HB2	1:C:140:ASP:CG	1.75	1.04
1:D:425:GLU:OE1	1:D:492:ALA:HB1	1.56	1.04
1:E:112:TYR:N	1:E:141:ASP:CB	2.18	1.04
1:F:45:GLY:N	1:F:189:GLU:OE1	1.88	1.04
1:F:92:ILE:CD1	1:F:323:LYS:HA	1.86	1.04
1:F:134:LEU:CD2	1:F:143:PHE:CE1	2.39	1.04
1:F:183:LEU:HD11	1:F:192:SER:OG	1.56	1.04
2:K:63:PHE:HA	2:L:96:SER:HB2	1.38	1.04
1:A:47:PRO:N	1:A:47:PRO:CD	2.18	1.04
1:A:134:LEU:CD2	1:A:143:PHE:CE1	2.39	1.04
1:A:335:ILE:HG13	1:A:362:MET:HE3	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:409:PRO:CD	1:A:409:PRO:N	2.15	1.04
1:B:92:ILE:CG1	1:B:326:LYS:HZ2	1.69	1.04
1:C:537:LYS:CG	1:C:545:PHE:CD2	2.41	1.04
1:D:39:ILE:HB	1:D:326:LYS:HE2	1.38	1.04
1:D:134:LEU:CD2	1:D:143:PHE:CE1	2.39	1.04
1:E:277:PRO:CD	1:E:277:PRO:N	2.13	1.04
2:I:63:PHE:C	2:J:96:SER:HB2	1.76	1.04
2:K:22:GLU:HB3	2:K:70:PHE:CE2	1.81	1.04
2:K:130:VAL:HG23	2:L:6:GLN:HG3	1.38	1.04
1:A:337:PRO:CD	1:A:337:PRO:N	2.19	1.04
1:A:338:LEU:CD1	1:A:414:ALA:CB	1.96	1.04
1:B:537:LYS:CG	1:B:545:PHE:CD2	2.41	1.04
1:C:409:PRO:CD	1:C:409:PRO:N	2.15	1.04
1:D:535:ARG:NH2	2:K:135:GLU:CD	2.11	1.04
1:D:537:LYS:CG	1:D:545:PHE:CD2	2.41	1.04
1:A:43:GLU:CD	1:A:67:GLU:CG	2.20	1.04
1:C:39:ILE:HB	1:C:326:LYS:HE2	1.38	1.04
1:C:76:TRP:HA	1:C:415:VAL:HG21	1.06	1.04
1:D:399:VAL:HG22	1:D:411:TYR:CD1	1.93	1.04
1:E:92:ILE:CD1	1:E:323:LYS:HA	1.86	1.04
1:E:119:ILE:CG2	1:E:181:LEU:CD1	2.30	1.04
1:E:399:VAL:HG22	1:E:411:TYR:CD1	1.93	1.04
1:F:337:PRO:CD	1:F:337:PRO:N	2.19	1.04
1:A:119:ILE:CG2	1:A:181:LEU:CD1	2.30	1.04
1:A:335:ILE:CG1	1:A:362:MET:HE3	1.88	1.04
1:B:183:LEU:HD11	1:B:192:SER:OG	1.56	1.04
1:C:80:PRO:CD	1:C:80:PRO:N	2.21	1.04
1:D:327:PHE:HD2	1:D:351:PHE:CE2	1.76	1.04
1:D:338:LEU:CD1	1:D:393:ALA:CB	2.34	1.04
1:F:327:PHE:HD2	1:F:351:PHE:CE2	1.76	1.04
1:A:76:TRP:HA	1:A:415:VAL:HG21	1.06	1.03
1:A:327:PHE:HD2	1:A:351:PHE:CE2	1.76	1.03
1:B:32:SER:HB3	1:B:426:ILE:CG2	1.86	1.03
1:B:277:PRO:CD	1:B:277:PRO:N	2.13	1.03
1:B:337:PRO:CD	1:B:337:PRO:N	2.19	1.03
1:C:119:ILE:CG2	1:C:181:LEU:CD1	2.30	1.03
1:C:183:LEU:HD11	1:C:192:SER:OG	1.56	1.03
1:E:327:PHE:HD2	1:E:351:PHE:CE2	1.76	1.03
1:E:335:ILE:HG13	1:E:362:MET:HE1	1.07	1.03
1:F:80:PRO:CD	1:F:80:PRO:N	2.21	1.03
2:J:22:GLU:HB3	2:J:70:PHE:CE2	1.81	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:SER:HB3	1:A:426:ILE:CG2	1.86	1.03
1:A:134:LEU:HD21	1:A:137:ILE:CG2	1.88	1.03
1:C:399:VAL:HG22	1:C:411:TYR:CD1	1.93	1.03
1:D:264:ILE:HD13	1:D:269:GLN:CG	1.86	1.03
1:E:537:LYS:CG	1:E:545:PHE:CD2	2.41	1.03
1:F:43:GLU:CD	1:F:67:GLU:CG	2.20	1.03
1:F:47:PRO:N	1:F:47:PRO:CD	2.18	1.03
1:F:134:LEU:HD21	1:F:137:ILE:CG2	1.89	1.03
1:F:269:GLN:C	1:F:277:PRO:HD2	1.77	1.03
1:F:335:ILE:HG13	1:F:362:MET:HE1	1.06	1.03
2:G:6:GLN:C	2:L:127:GLU:O	1.97	1.03
2:G:127:GLU:O	2:H:6:GLN:C	1.97	1.03
2:I:24:ALA:HA	2:I:71:VAL:HA	1.34	1.03
1:A:537:LYS:CG	1:A:545:PHE:CD2	2.41	1.03
1:B:425:GLU:OE1	1:B:492:ALA:HB1	1.56	1.03
1:D:80:PRO:CD	1:D:80:PRO:N	2.21	1.03
1:E:32:SER:OG	1:E:426:ILE:HB	1.59	1.03
1:F:32:SER:HB3	1:F:426:ILE:CG2	1.86	1.03
2:G:24:ALA:HA	2:G:71:VAL:CA	1.89	1.03
2:H:24:ALA:HA	2:H:71:VAL:HA	1.34	1.03
1:B:76:TRP:HA	1:B:415:VAL:HG21	1.06	1.03
1:B:252:PHE:CE2	1:B:257:LYS:CG	2.04	1.03
1:B:501:VAL:CG1	1:B:578:LEU:HD21	1.89	1.03
1:C:501:VAL:CG1	1:C:578:LEU:HD21	1.89	1.03
1:D:270:LEU:HD22	1:D:274:GLY:HA2	1.33	1.03
1:F:399:VAL:HG22	1:F:411:TYR:CD1	1.93	1.03
2:G:22:GLU:HB3	2:G:70:PHE:CE2	1.81	1.03
1:A:277:PRO:CD	1:A:277:PRO:N	2.13	1.03
1:B:566:TYR:HD2	1:B:572:LYS:C	1.59	1.03
1:D:32:SER:OG	1:D:426:ILE:HB	1.59	1.03
1:D:183:LEU:HD11	1:D:192:SER:OG	1.56	1.03
1:D:355:ARG:HG3	1:D:361:PRO:HD2	1.38	1.03
1:E:80:PRO:CD	1:E:80:PRO:N	2.21	1.03
1:E:134:LEU:HD21	1:E:137:ILE:CG2	1.88	1.03
1:F:537:LYS:CG	1:F:545:PHE:CD2	2.41	1.03
2:H:24:ALA:HA	2:H:71:VAL:CA	1.89	1.03
2:H:71:VAL:HG22	2:I:98:GLY:HA3	1.35	1.03
2:K:63:PHE:C	2:L:96:SER:HB2	1.76	1.03
2:L:22:GLU:HB3	2:L:70:PHE:CE2	1.81	1.03
1:C:32:SER:OG	1:C:426:ILE:HB	1.59	1.02
1:C:269:GLN:C	1:C:277:PRO:HD2	1.77	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:425:GLU:OE1	1:C:492:ALA:HB1	1.56	1.02
1:C:566:TYR:HD2	1:C:572:LYS:C	1.59	1.02
1:D:259:THR:HB	1:D:261:TYR:HE1	1.19	1.02
2:G:71:VAL:HG22	2:H:98:GLY:HA3	1.35	1.02
2:G:98:GLY:HA3	2:L:71:VAL:HG22	1.35	1.02
2:H:130:VAL:CG2	2:I:6:GLN:HG3	1.89	1.02
2:I:130:VAL:CG2	2:J:6:GLN:HG3	1.89	1.02
2:L:24:ALA:HA	2:L:71:VAL:CA	1.89	1.02
1:A:52:GLU:HG2	1:A:88:LEU:HD22	1.40	1.02
1:A:501:VAL:CG1	1:A:578:LEU:HD21	1.89	1.02
1:A:566:TYR:CD2	1:A:572:LYS:C	2.23	1.02
1:B:259:THR:HB	1:B:261:TYR:HE1	1.19	1.02
1:B:327:PHE:HD2	1:B:351:PHE:CE2	1.76	1.02
1:B:335:ILE:HG13	1:B:362:MET:HE3	1.41	1.02
1:C:264:ILE:HD13	1:C:269:GLN:HB2	1.42	1.02
1:C:337:PRO:CD	1:C:337:PRO:N	2.19	1.02
1:D:370:PHE:CZ	1:D:448:ASP:OD2	2.13	1.02
1:E:338:LEU:CD1	1:E:414:ALA:CB	1.96	1.02
1:E:355:ARG:HG3	1:E:361:PRO:HD2	1.38	1.02
1:F:47:PRO:CG	1:F:93:GLU:OE1	2.07	1.02
1:F:501:VAL:CG1	1:F:578:LEU:HD21	1.89	1.02
2:H:127:GLU:O	2:I:6:GLN:C	1.97	1.02
2:J:127:GLU:O	2:K:6:GLN:C	1.97	1.02
2:J:130:VAL:CG2	2:K:6:GLN:HG3	1.89	1.02
1:A:183:LEU:HD11	1:A:192:SER:OG	1.56	1.02
1:B:52:GLU:HG2	1:B:88:LEU:HD22	1.40	1.02
1:B:399:VAL:HG22	1:B:411:TYR:CD1	1.93	1.02
1:C:327:PHE:HD2	1:C:351:PHE:CE2	1.76	1.02
1:D:93:GLU:HB3	1:D:140:ASP:CB	1.69	1.02
1:E:39:ILE:HB	1:E:326:LYS:HE2	1.38	1.02
1:E:501:VAL:CG1	1:E:578:LEU:HD21	1.89	1.02
1:F:32:SER:OG	1:F:426:ILE:HB	1.59	1.02
1:F:119:ILE:CG2	1:F:181:LEU:CD1	2.30	1.02
2:G:70:PHE:CA	2:H:99:ARG:HD2	1.90	1.02
2:I:127:GLU:O	2:J:6:GLN:C	1.97	1.02
2:I:130:VAL:HG23	2:J:6:GLN:CG	1.89	1.02
2:K:127:GLU:O	2:L:6:GLN:C	1.97	1.02
1:B:134:LEU:HD21	1:B:137:ILE:CG2	1.88	1.02
1:C:282:VAL:HG13	1:C:287:GLU:CG	1.86	1.02
1:D:277:PRO:CD	1:D:277:PRO:N	2.13	1.02
1:D:337:PRO:CD	1:D:337:PRO:N	2.19	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:63:PHE:HA	2:H:96:SER:HB2	1.38	1.02
2:H:70:PHE:CA	2:I:99:ARG:HD2	1.90	1.02
2:H:130:VAL:HG23	2:I:6:GLN:CG	1.89	1.02
2:I:130:VAL:HG23	2:J:6:GLN:HG3	1.38	1.02
1:A:123:LEU:HB2	1:A:128:LEU:HD11	1.42	1.02
1:A:399:VAL:HG22	1:A:411:TYR:CD1	1.93	1.02
1:B:123:LEU:HB2	1:B:128:LEU:HD11	1.42	1.02
1:C:47:PRO:CG	1:C:93:GLU:OE1	2.07	1.02
1:D:76:TRP:HA	1:D:415:VAL:HG21	1.06	1.02
1:E:47:PRO:N	1:E:47:PRO:CD	2.18	1.02
1:E:320:TRP:HZ2	1:E:343:SER:C	1.59	1.02
2:G:68:SER:N	2:H:102:GLU:OE2	1.93	1.02
1:B:32:SER:OG	1:B:426:ILE:HB	1.59	1.01
1:B:39:ILE:HB	1:B:326:LYS:HE2	1.38	1.01
1:C:92:ILE:CD1	1:C:326:LYS:HZ1	1.71	1.01
1:C:370:PHE:CZ	1:C:448:ASP:OD2	2.13	1.01
1:D:34:LYS:CD	1:D:422:SER:CB	2.22	1.01
1:D:501:VAL:CG1	1:D:578:LEU:HD21	1.89	1.01
1:E:34:LYS:HD2	1:E:422:SER:HB2	1.17	1.01
1:E:47:PRO:CG	1:E:93:GLU:OE1	2.07	1.01
1:E:114:ASN:O	1:E:134:LEU:HD23	1.60	1.01
1:E:337:PRO:CD	1:E:337:PRO:N	2.19	1.01
2:G:99:ARG:HD2	2:L:70:PHE:CA	1.90	1.01
2:I:24:ALA:HA	2:I:71:VAL:CA	1.89	1.01
2:K:24:ALA:HA	2:K:71:VAL:CA	1.89	1.01
2:K:70:PHE:CA	2:L:99:ARG:HD2	1.90	1.01
2:K:130:VAL:CG2	2:L:6:GLN:HG3	1.89	1.01
1:A:115:VAL:O	1:A:115:VAL:CG1	2.07	1.01
1:B:370:PHE:CZ	1:B:448:ASP:OD2	2.13	1.01
1:C:52:GLU:HG2	1:C:88:LEU:HD22	1.40	1.01
1:D:43:GLU:CD	1:D:67:GLU:CG	2.20	1.01
1:D:361:PRO:CD	1:D:361:PRO:N	2.22	1.01
1:E:34:LYS:CB	1:E:422:SER:CB	2.39	1.01
1:E:399:VAL:HG22	1:E:411:TYR:HD1	1.25	1.01
1:F:39:ILE:HB	1:F:326:LYS:HE2	1.38	1.01
1:F:355:ARG:HG3	1:F:361:PRO:HD2	1.38	1.01
2:J:24:ALA:HA	2:J:71:VAL:CA	1.89	1.01
2:J:63:PHE:HA	2:K:96:SER:HB2	1.38	1.01
1:A:132:LEU:CG	1:A:148:ASP:HA	1.91	1.01
1:A:154:PHE:CZ	1:A:199:ALA:CB	2.44	1.01
1:A:399:VAL:HG22	1:A:411:TYR:HD1	1.25	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:TYR:HD2	1:A:572:LYS:C	1.59	1.01
1:C:259:THR:HB	1:C:261:TYR:HE1	1.19	1.01
1:D:47:PRO:CG	1:D:93:GLU:OE1	2.07	1.01
1:D:264:ILE:HD13	1:D:269:GLN:HB2	1.42	1.01
1:E:387:PRO:HG2	1:E:390:SER:HB2	1.01	1.01
1:F:34:LYS:CB	1:F:422:SER:CB	2.38	1.01
1:F:51:TYR:CE2	1:F:62:LEU:CD1	2.44	1.01
2:G:102:GLU:OE2	2:L:68:SER:N	1.93	1.01
2:G:130:VAL:HG23	2:H:6:GLN:CG	1.89	1.01
2:I:71:VAL:HG22	2:J:98:GLY:HA3	1.35	1.01
2:J:70:PHE:CA	2:K:99:ARG:HD2	1.90	1.01
2:J:130:VAL:HG23	2:K:6:GLN:CG	1.89	1.01
1:A:370:PHE:CZ	1:A:448:ASP:OD2	2.13	1.01
1:A:387:PRO:CD	1:A:387:PRO:N	2.23	1.01
1:A:518:ILE:HD11	1:A:520:THR:HB	1.43	1.01
1:B:47:PRO:CG	1:B:93:GLU:OE1	2.07	1.01
1:B:132:LEU:CG	1:B:148:ASP:HA	1.91	1.01
1:B:355:ARG:HG3	1:B:361:PRO:HD2	1.38	1.01
1:C:524:ILE:HG12	2:J:107:TYR:CZ	1.94	1.01
1:D:252:PHE:CZ	1:D:257:LYS:HG2	1.96	1.01
1:E:76:TRP:C	1:E:415:VAL:HG21	1.81	1.01
1:E:154:PHE:CZ	1:E:199:ALA:CB	2.44	1.01
1:E:370:PHE:CZ	1:E:448:ASP:OD2	2.13	1.01
1:F:52:GLU:HG2	1:F:88:LEU:HD22	1.40	1.01
1:F:52:GLU:CG	1:F:88:LEU:CD2	2.39	1.01
1:F:92:ILE:CD1	1:F:326:LYS:HZ2	1.72	1.01
1:F:114:ASN:O	1:F:134:LEU:HD23	1.60	1.01
1:F:252:PHE:CE2	1:F:257:LYS:CG	2.04	1.01
1:F:387:PRO:HG2	1:F:390:SER:HB2	1.01	1.01
2:G:6:GLN:HG3	2:L:130:VAL:HG23	1.38	1.01
2:K:130:VAL:HG23	2:L:6:GLN:CG	1.89	1.01
1:A:112:TYR:CA	1:A:141:ASP:CB	2.39	1.01
1:B:32:SER:CB	1:B:426:ILE:HB	1.91	1.01
1:C:32:SER:CB	1:C:426:ILE:HB	1.91	1.01
1:C:52:GLU:CG	1:C:88:LEU:CD2	2.39	1.01
1:C:338:LEU:HB3	1:C:412:MET:HE3	1.37	1.01
1:D:134:LEU:HD21	1:D:137:ILE:CG2	1.88	1.01
1:D:566:TYR:HD2	1:D:572:LYS:C	1.59	1.01
1:E:51:TYR:CE2	1:E:62:LEU:CD1	2.44	1.01
1:E:252:PHE:CZ	1:E:257:LYS:HG2	1.96	1.01
1:E:335:ILE:HG13	1:E:362:MET:HE3	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:528:PHE:CZ	2:L:107:TYR:HB3	1.96	1.01
1:F:154:PHE:CZ	1:F:199:ALA:CB	2.44	1.01
1:F:338:LEU:O	1:F:412:MET:HG3	1.60	1.01
2:I:23:MET:HB3	2:I:74:MET:N	1.76	1.01
2:I:70:PHE:CA	2:J:99:ARG:HD2	1.90	1.01
1:A:32:SER:CB	1:A:426:ILE:HB	1.91	1.00
1:A:52:GLU:CG	1:A:88:LEU:CD2	2.39	1.00
1:C:134:LEU:HD21	1:C:137:ILE:CG2	1.88	1.00
1:C:320:TRP:HZ2	1:C:343:SER:C	1.59	1.00
1:D:76:TRP:C	1:D:415:VAL:HG21	1.81	1.00
1:D:112:TYR:HA	1:D:141:ASP:CG	1.81	1.00
1:D:115:VAL:O	1:D:115:VAL:CG1	2.07	1.00
1:E:112:TYR:HA	1:E:141:ASP:CG	1.81	1.00
1:E:528:PHE:CE1	2:L:107:TYR:HB3	1.95	1.00
1:F:32:SER:CB	1:F:426:ILE:HB	1.91	1.00
1:F:34:LYS:HD2	1:F:422:SER:HB2	1.17	1.00
1:F:76:TRP:C	1:F:415:VAL:HG21	1.81	1.00
1:F:112:TYR:CA	1:F:141:ASP:CB	2.39	1.00
1:F:370:PHE:CZ	1:F:448:ASP:OD2	2.13	1.00
1:A:32:SER:OG	1:A:426:ILE:HB	1.59	1.00
1:A:114:ASN:O	1:A:134:LEU:HD23	1.60	1.00
1:A:320:TRP:HE1	1:A:344:VAL:N	1.58	1.00
1:A:434:PRO:CD	1:A:434:PRO:N	2.24	1.00
1:B:76:TRP:C	1:B:415:VAL:HG21	1.81	1.00
1:B:112:TYR:CA	1:B:141:ASP:CB	2.39	1.00
1:B:154:PHE:CZ	1:B:199:ALA:CB	2.44	1.00
1:B:434:PRO:CD	1:B:434:PRO:N	2.24	1.00
1:B:518:ILE:HD11	1:B:520:THR:HB	1.43	1.00
1:C:112:TYR:CA	1:C:141:ASP:CB	2.39	1.00
1:C:154:PHE:CZ	1:C:199:ALA:CB	2.44	1.00
1:C:252:PHE:CZ	1:C:257:LYS:HG2	1.96	1.00
1:C:320:TRP:HD1	1:C:340:SER:HB2	1.23	1.00
1:C:335:ILE:HG13	1:C:362:MET:HE1	1.01	1.00
1:D:114:ASN:O	1:D:134:LEU:HD23	1.60	1.00
1:D:320:TRP:HE1	1:D:344:VAL:N	1.58	1.00
1:E:32:SER:CB	1:E:426:ILE:HB	1.91	1.00
1:E:320:TRP:HE1	1:E:344:VAL:N	1.58	1.00
1:E:320:TRP:HD1	1:E:340:SER:HB2	1.23	1.00
2:I:68:SER:N	2:J:102:GLU:OE2	1.93	1.00
2:J:23:MET:HB3	2:J:74:MET:N	1.76	1.00
1:A:47:PRO:CG	1:A:93:GLU:OE1	2.07	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:ARG:HG3	1:A:361:PRO:HD2	1.38	1.00
1:B:114:ASN:O	1:B:134:LEU:HD23	1.60	1.00
1:B:134:LEU:HD21	1:B:137:ILE:HG22	1.44	1.00
1:B:264:ILE:HD13	1:B:269:GLN:HB2	1.42	1.00
1:C:76:TRP:C	1:C:415:VAL:HG21	1.81	1.00
1:C:132:LEU:CG	1:C:148:ASP:HA	1.90	1.00
1:C:361:PRO:CD	1:C:361:PRO:N	2.22	1.00
1:E:132:LEU:CG	1:E:148:ASP:HA	1.90	1.00
1:E:338:LEU:O	1:E:412:MET:HG3	1.60	1.00
1:E:361:PRO:CD	1:E:361:PRO:N	2.22	1.00
2:G:23:MET:O	2:G:74:MET:HB2	1.62	1.00
2:H:68:SER:N	2:I:102:GLU:OE2	1.93	1.00
1:A:51:TYR:CE2	1:A:62:LEU:CD1	2.44	1.00
1:B:338:LEU:O	1:B:412:MET:HG3	1.60	1.00
1:C:252:PHE:CE2	1:C:257:LYS:CG	2.04	1.00
1:C:320:TRP:HE1	1:C:344:VAL:N	1.58	1.00
1:C:566:TYR:CD2	1:C:572:LYS:C	2.24	1.00
1:D:320:TRP:HZ2	1:D:343:SER:C	1.59	1.00
1:F:132:LEU:CG	1:F:148:ASP:HA	1.90	1.00
2:G:6:GLN:HG3	2:L:130:VAL:CG2	1.89	1.00
2:J:68:SER:N	2:K:102:GLU:OE2	1.93	1.00
2:K:68:SER:N	2:L:102:GLU:OE2	1.93	1.00
1:B:52:GLU:CG	1:B:88:LEU:CD2	2.39	1.00
1:B:387:PRO:CD	1:B:387:PRO:N	2.23	1.00
1:C:367:GLY:HA2	1:C:393:ALA:HB3	1.44	1.00
1:D:32:SER:CB	1:D:426:ILE:HB	1.91	1.00
1:D:52:GLU:CG	1:D:88:LEU:CD2	2.39	1.00
1:D:112:TYR:CA	1:D:141:ASP:CB	2.39	1.00
1:F:518:ILE:HD11	1:F:520:THR:HB	1.43	1.00
2:G:6:GLN:HA	2:L:127:GLU:O	1.62	1.00
2:J:127:GLU:O	2:K:6:GLN:HA	1.62	1.00
1:A:76:TRP:C	1:A:415:VAL:HG21	1.81	1.00
1:C:43:GLU:CD	1:C:67:GLU:CG	2.20	1.00
1:C:399:VAL:HG22	1:C:411:TYR:HD1	1.25	1.00
1:D:52:GLU:HG2	1:D:88:LEU:HD22	1.40	1.00
1:D:546:PRO:CD	1:D:546:PRO:N	2.25	1.00
1:E:518:ILE:HD11	1:E:520:THR:HB	1.43	1.00
1:F:112:TYR:HA	1:F:141:ASP:CG	1.81	1.00
2:G:6:GLN:CG	2:L:130:VAL:HG23	1.89	1.00
2:I:63:PHE:HA	2:J:96:SER:HB2	1.38	1.00
1:B:154:PHE:CZ	1:B:199:ALA:HB1	1.97	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:252:PHE:CZ	1:B:257:LYS:HG2	1.96	1.00
1:B:320:TRP:HD1	1:B:340:SER:HB2	1.23	1.00
1:C:134:LEU:HD21	1:C:137:ILE:HG22	1.44	1.00
1:C:154:PHE:CZ	1:C:199:ALA:HB1	1.97	1.00
1:D:47:PRO:N	1:D:47:PRO:CD	2.18	1.00
1:D:51:TYR:CE2	1:D:62:LEU:CD1	2.44	1.00
1:D:154:PHE:CZ	1:D:199:ALA:CB	2.44	1.00
1:E:112:TYR:CA	1:E:141:ASP:CB	2.39	1.00
1:E:387:PRO:CD	1:E:390:SER:HB2	1.92	1.00
1:A:77:GLY:C	1:A:80:PRO:CD	2.29	0.99
1:B:320:TRP:HE1	1:B:344:VAL:N	1.58	0.99
1:C:51:TYR:CE2	1:C:62:LEU:CD1	2.44	0.99
1:C:123:LEU:HB2	1:C:128:LEU:HD11	1.42	0.99
1:D:387:PRO:HG2	1:D:390:SER:HB2	1.01	0.99
1:E:123:LEU:HB2	1:E:128:LEU:HD11	1.42	0.99
1:E:252:PHE:CE2	1:E:257:LYS:CG	2.04	0.99
1:A:387:PRO:HG2	1:A:390:SER:HB2	1.01	0.99
1:C:355:ARG:HG3	1:C:361:PRO:HD2	1.38	0.99
1:D:134:LEU:HD21	1:D:137:ILE:HG22	1.44	0.99
1:D:338:LEU:O	1:D:412:MET:HG3	1.60	0.99
2:H:23:MET:HB3	2:H:74:MET:N	1.76	0.99
2:K:24:ALA:HA	2:K:71:VAL:CB	1.93	0.99
1:B:270:LEU:HA	1:B:277:PRO:HD2	1.19	0.99
1:B:367:GLY:HA2	1:B:393:ALA:HB3	1.44	0.99
1:C:518:ILE:HD11	1:C:520:THR:HB	1.43	0.99
1:D:154:PHE:CZ	1:D:199:ALA:HB1	1.97	0.99
1:D:387:PRO:CD	1:D:387:PRO:N	2.23	0.99
1:F:320:TRP:HE1	1:F:344:VAL:N	1.58	0.99
2:G:95:GLN:OE1	2:L:27:LYS:CE	2.10	0.99
2:K:127:GLU:O	2:L:6:GLN:HA	1.62	0.99
1:A:270:LEU:HA	1:A:277:PRO:HD2	1.19	0.99
1:B:34:LYS:CB	1:B:422:SER:CB	2.38	0.99
1:B:90:MET:C	1:B:326:LYS:HD2	1.82	0.99
1:C:387:PRO:CD	1:C:387:PRO:N	2.23	0.99
1:D:123:LEU:HB2	1:D:128:LEU:HD11	1.42	0.99
1:D:270:LEU:CD1	1:D:271:ASN:O	2.10	0.99
1:C:338:LEU:O	1:C:412:MET:HG3	1.60	0.99
1:E:154:PHE:CZ	1:E:199:ALA:HB1	1.97	0.99
1:E:270:LEU:CD1	1:E:271:ASN:O	2.10	0.99
1:F:36:PHE:CZ	1:F:419:GLY:HA2	1.98	0.99
2:G:27:LYS:CE	2:H:95:GLN:OE1	2.11	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:24:ALA:HA	2:H:71:VAL:CB	1.93	0.99
2:J:127:GLU:O	2:K:6:GLN:CA	2.11	0.99
1:A:36:PHE:CZ	1:A:419:GLY:HA2	1.98	0.99
1:A:39:ILE:HB	1:A:326:LYS:HE2	1.38	0.99
1:A:338:LEU:O	1:A:412:MET:HG3	1.60	0.99
1:B:270:LEU:CD1	1:B:271:ASN:O	2.10	0.99
1:D:252:PHE:CE2	1:D:257:LYS:CG	2.04	0.99
1:E:115:VAL:O	1:E:115:VAL:CG1	2.06	0.99
1:F:123:LEU:HB2	1:F:128:LEU:HD11	1.42	0.99
1:F:320:TRP:HD1	1:F:340:SER:HB2	1.23	0.99
1:F:387:PRO:CD	1:F:390:SER:HB2	1.92	0.99
2:H:63:PHE:HA	2:I:96:SER:HB2	1.38	0.99
1:A:154:PHE:CZ	1:A:199:ALA:HB1	1.97	0.99
1:C:112:TYR:HA	1:C:141:ASP:CG	1.81	0.99
1:C:270:LEU:CD1	1:C:271:ASN:O	2.10	0.99
1:E:52:GLU:HG2	1:E:88:LEU:HD22	1.41	0.99
1:E:134:LEU:HD21	1:E:137:ILE:HG22	1.44	0.99
1:E:535:ARG:NH2	2:L:135:GLU:CD	2.15	0.99
1:F:115:VAL:O	1:F:115:VAL:CG1	2.06	0.99
1:F:361:PRO:CD	1:F:361:PRO:N	2.22	0.99
1:F:367:GLY:HA2	1:F:393:ALA:HB3	1.44	0.99
1:D:387:PRO:CD	1:D:390:SER:HB2	1.92	0.99
1:E:43:GLU:CD	1:E:67:GLU:CG	2.20	0.99
1:E:52:GLU:CG	1:E:88:LEU:CD2	2.39	0.99
2:I:24:ALA:HA	2:I:71:VAL:CB	1.93	0.99
1:A:32:SER:HB3	1:A:426:ILE:HG21	1.45	0.99
1:B:51:TYR:CE2	1:B:62:LEU:CD1	2.44	0.99
1:B:115:VAL:O	1:B:115:VAL:CG1	2.07	0.99
1:B:546:PRO:CD	1:B:546:PRO:N	2.25	0.99
1:C:327:PHE:HE2	1:C:351:PHE:CD2	1.61	0.99
1:E:90:MET:C	1:E:326:LYS:HD2	1.82	0.99
1:F:90:MET:C	1:F:326:LYS:HD2	1.82	0.99
2:I:127:GLU:O	2:J:6:GLN:HA	1.62	0.99
1:A:270:LEU:CD1	1:A:271:ASN:O	2.10	0.99
1:B:34:LYS:CD	1:B:422:SER:CB	2.22	0.99
1:B:112:TYR:HA	1:B:141:ASP:CG	1.81	0.99
1:D:132:LEU:CG	1:D:148:ASP:HA	1.90	0.99
1:E:36:PHE:CZ	1:E:419:GLY:HA2	1.98	0.99
1:E:367:GLY:HA2	1:E:393:ALA:HB3	1.44	0.99
1:E:566:TYR:HD2	1:E:572:LYS:C	1.59	0.99
1:F:264:ILE:HD13	1:F:269:GLN:HB2	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:566:TYR:HD2	1:F:572:LYS:C	1.59	0.99
2:I:23:MET:O	2:I:71:VAL:CA	2.11	0.99
2:J:24:ALA:HA	2:J:71:VAL:CB	1.93	0.99
2:L:23:MET:O	2:L:71:VAL:CA	2.11	0.99
1:A:90:MET:C	1:A:326:LYS:HD2	1.82	0.98
1:B:36:PHE:CZ	1:B:419:GLY:HA2	1.98	0.98
1:C:114:ASN:O	1:C:134:LEU:HD23	1.60	0.98
1:C:387:PRO:HG2	1:C:390:SER:HB2	1.01	0.98
1:F:134:LEU:HD21	1:F:137:ILE:HG22	1.44	0.98
1:F:170:GLU:CD	1:F:287:GLU:HA	1.62	0.98
2:G:127:GLU:O	2:H:6:GLN:HA	1.62	0.98
2:G:130:VAL:CG2	2:H:6:GLN:HG3	1.89	0.98
2:K:23:MET:HB3	2:K:74:MET:N	1.76	0.98
2:L:23:MET:HB3	2:L:74:MET:N	1.76	0.98
1:A:134:LEU:HD21	1:A:137:ILE:HG22	1.44	0.98
1:B:387:PRO:HG2	1:B:390:SER:HB2	1.01	0.98
1:E:524:ILE:HG12	2:L:107:TYR:CZ	1.97	0.98
2:I:27:LYS:CE	2:J:95:GLN:OE1	2.11	0.98
2:K:27:LYS:CD	2:L:95:GLN:O	2.11	0.98
1:A:320:TRP:NE1	1:A:344:VAL:N	2.12	0.98
1:B:80:PRO:CD	1:B:80:PRO:N	2.21	0.98
1:C:90:MET:C	1:C:326:LYS:HD2	1.82	0.98
1:D:518:ILE:HD11	1:D:520:THR:HB	1.43	0.98
2:H:27:LYS:CD	2:I:95:GLN:O	2.11	0.98
1:A:252:PHE:CZ	1:A:257:LYS:HG2	1.96	0.98
1:A:264:ILE:HD13	1:A:269:GLN:HB2	1.42	0.98
1:C:335:ILE:CG1	1:C:362:MET:HE1	1.89	0.98
1:E:264:ILE:HD13	1:E:269:GLN:HB2	1.42	0.98
1:E:387:PRO:CD	1:E:387:PRO:N	2.23	0.98
1:E:409:PRO:HB2	1:E:411:TYR:HE1	1.27	0.98
2:G:23:MET:HB3	2:G:74:MET:N	1.76	0.98
2:H:127:GLU:O	2:I:6:GLN:HA	1.62	0.98
2:K:127:GLU:O	2:L:6:GLN:CA	2.11	0.98
1:C:34:LYS:CD	1:C:422:SER:CB	2.22	0.98
1:C:270:LEU:HA	1:C:277:PRO:HD2	1.19	0.98
1:C:546:PRO:N	1:C:546:PRO:CD	2.25	0.98
1:D:36:PHE:CZ	1:D:419:GLY:HA2	1.98	0.98
1:D:92:ILE:CD1	1:D:326:LYS:HZ2	1.75	0.98
1:E:77:GLY:C	1:E:80:PRO:CD	2.30	0.98
1:F:387:PRO:CD	1:F:387:PRO:N	2.23	0.98
1:F:434:PRO:N	1:F:434:PRO:CD	2.24	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:23:MET:O	2:H:71:VAL:CA	2.11	0.98
2:H:27:LYS:CE	2:I:95:GLN:OE1	2.11	0.98
1:A:34:LYS:CB	1:A:422:SER:CB	2.38	0.98
1:A:361:PRO:CD	1:A:361:PRO:N	2.22	0.98
1:B:132:LEU:HG	1:B:148:ASP:CA	1.83	0.98
1:B:320:TRP:NE1	1:B:344:VAL:N	2.12	0.98
1:C:36:PHE:CZ	1:C:419:GLY:HA2	1.98	0.98
1:F:270:LEU:CD1	1:F:271:ASN:O	2.10	0.98
1:F:320:TRP:NE1	1:F:344:VAL:N	2.12	0.98
2:G:24:ALA:HA	2:G:71:VAL:CB	1.92	0.98
2:G:95:GLN:O	2:L:27:LYS:CD	2.11	0.98
2:J:27:LYS:CD	2:K:95:GLN:O	2.11	0.98
1:A:77:GLY:CA	1:A:80:PRO:HD2	1.94	0.98
1:B:361:PRO:CD	1:B:361:PRO:N	2.22	0.98
1:D:434:PRO:CD	1:D:434:PRO:N	2.24	0.98
1:F:282:VAL:C	1:F:287:GLU:HB2	1.84	0.98
2:H:127:GLU:O	2:I:6:GLN:CA	2.11	0.98
2:J:23:MET:O	2:J:71:VAL:CA	2.11	0.98
2:L:24:ALA:HA	2:L:71:VAL:CB	1.93	0.98
1:A:80:PRO:CD	1:A:80:PRO:N	2.21	0.98
1:A:93:GLU:HB3	1:A:140:ASP:CB	1.69	0.98
1:C:47:PRO:N	1:C:47:PRO:CD	2.18	0.98
1:C:387:PRO:CD	1:C:390:SER:HB2	1.92	0.98
1:C:434:PRO:N	1:C:434:PRO:CD	2.24	0.98
1:C:501:VAL:HG13	1:C:578:LEU:CD2	1.93	0.98
1:D:77:GLY:C	1:D:80:PRO:CD	2.30	0.98
1:D:320:TRP:HD1	1:D:340:SER:HB2	1.23	0.98
1:E:434:PRO:CD	1:E:434:PRO:N	2.24	0.98
1:F:154:PHE:CZ	1:F:199:ALA:HB1	1.97	0.98
2:G:27:LYS:CD	2:H:95:GLN:O	2.11	0.98
2:I:27:LYS:CD	2:J:95:GLN:O	2.11	0.98
1:A:112:TYR:HA	1:A:141:ASP:CG	1.81	0.98
1:A:320:TRP:HD1	1:A:340:SER:HB2	1.23	0.98
1:B:32:SER:HB3	1:B:426:ILE:HG21	1.45	0.98
1:F:270:LEU:HA	1:F:277:PRO:HD3	0.98	0.98
1:D:409:PRO:HB2	1:D:411:TYR:HE1	1.27	0.97
1:E:341:LYS:O	1:E:345:HIS:ND1	1.97	0.97
2:J:27:LYS:CE	2:K:95:GLN:OE1	2.11	0.97
1:A:327:PHE:HE2	1:A:351:PHE:CD2	1.62	0.97
1:A:341:LYS:O	1:A:345:HIS:ND1	1.97	0.97
1:B:282:VAL:C	1:B:287:GLU:HB2	1.84	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:399:VAL:HG22	1:B:411:TYR:HD1	1.25	0.97
1:C:34:LYS:CB	1:C:422:SER:CB	2.38	0.97
1:D:408:VAL:CA	1:D:409:PRO:CD	2.43	0.97
2:G:127:GLU:O	2:H:6:GLN:CA	2.11	0.97
2:K:23:MET:O	2:K:71:VAL:CA	2.11	0.97
1:B:387:PRO:CD	1:B:390:SER:HB2	1.92	0.97
1:C:408:VAL:CA	1:C:409:PRO:CD	2.43	0.97
1:D:320:TRP:NE1	1:D:344:VAL:N	2.12	0.97
1:E:270:LEU:HA	1:E:277:PRO:HD3	0.98	0.97
1:F:107:ILE:HB	1:F:193:TYR:CD2	2.00	0.97
2:G:6:GLN:CA	2:L:127:GLU:O	2.11	0.97
1:A:282:VAL:C	1:A:287:GLU:HB2	1.84	0.97
1:A:387:PRO:CD	1:A:390:SER:HB2	1.92	0.97
1:A:546:PRO:CD	1:A:546:PRO:N	2.25	0.97
1:E:408:VAL:CA	1:E:409:PRO:CD	2.42	0.97
2:I:127:GLU:O	2:J:6:GLN:CA	2.11	0.97
1:D:367:GLY:HA2	1:D:393:ALA:HB3	1.44	0.97
2:G:23:MET:O	2:G:71:VAL:CA	2.11	0.97
1:B:327:PHE:HE2	1:B:351:PHE:CD2	1.62	0.97
1:C:282:VAL:C	1:C:287:GLU:HB2	1.84	0.97
1:E:501:VAL:HG13	1:E:578:LEU:CD2	1.93	0.97
1:F:32:SER:HB3	1:F:426:ILE:HG21	1.45	0.97
2:K:27:LYS:CE	2:L:95:GLN:OE1	2.11	0.97
1:F:132:LEU:HG	1:F:148:ASP:CA	1.83	0.97
1:F:546:PRO:N	1:F:546:PRO:CD	2.25	0.97
1:B:501:VAL:HG13	1:B:578:LEU:CD2	1.93	0.97
1:E:282:VAL:C	1:E:287:GLU:HB2	1.84	0.97
1:F:252:PHE:CZ	1:F:257:LYS:HG2	1.96	0.97
1:F:501:VAL:HG13	1:F:578:LEU:CD2	1.93	0.97
2:G:71:VAL:HG23	2:H:99:ARG:HD3	1.47	0.97
1:A:367:GLY:HA2	1:A:393:ALA:HB3	1.44	0.97
1:A:501:VAL:HG13	1:A:578:LEU:CD2	1.93	0.97
1:B:408:VAL:CA	1:B:409:PRO:CD	2.42	0.97
1:C:341:LYS:O	1:C:345:HIS:ND1	1.97	0.97
1:E:320:TRP:NE1	1:E:344:VAL:N	2.12	0.97
1:C:43:GLU:O	1:C:188:GLN:HG2	1.65	0.97
1:C:370:PHE:HE2	1:C:448:ASP:OD2	1.23	0.97
1:D:34:LYS:CB	1:D:422:SER:CB	2.38	0.97
1:D:77:GLY:CA	1:D:80:PRO:HD2	1.94	0.97
1:D:370:PHE:HE2	1:D:448:ASP:OD2	1.23	0.97
1:E:107:ILE:HB	1:E:193:TYR:CD2	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:GLU:O	1:F:188:GLN:HG2	1.65	0.97
1:A:427:GLY:O	1:A:495:GLU:HG3	1.65	0.96
1:C:132:LEU:HG	1:C:148:ASP:CA	1.83	0.96
1:C:320:TRP:NE1	1:C:344:VAL:N	2.12	0.96
1:D:90:MET:C	1:D:326:LYS:HD2	1.82	0.96
1:E:335:ILE:CG1	1:E:362:MET:HE3	1.92	0.96
1:A:107:ILE:HB	1:A:193:TYR:CD2	2.00	0.96
1:A:252:PHE:CE2	1:A:257:LYS:CG	2.04	0.96
1:A:270:LEU:HA	1:A:277:PRO:HD3	0.98	0.96
1:B:77:GLY:CA	1:B:80:PRO:HD2	1.94	0.96
1:D:327:PHE:HE2	1:D:351:PHE:CD2	1.61	0.96
1:E:132:LEU:HG	1:E:148:ASP:CA	1.83	0.96
2:G:22:GLU:CB	2:G:70:PHE:HE2	1.77	0.96
2:I:71:VAL:HG23	2:J:99:ARG:HD3	1.47	0.96
2:K:130:VAL:HA	2:L:6:GLN:CB	1.95	0.96
1:A:535:ARG:HH22	2:H:135:GLU:CG	1.78	0.96
1:D:341:LYS:O	1:D:345:HIS:ND1	1.97	0.96
1:F:335:ILE:HG13	1:F:362:MET:HE3	1.43	0.96
1:E:43:GLU:O	1:E:188:GLN:HG2	1.65	0.96
1:F:409:PRO:HB2	1:F:411:TYR:HE1	1.27	0.96
1:E:32:SER:HB3	1:E:426:ILE:HG21	1.45	0.96
1:E:77:GLY:CA	1:E:80:PRO:HD2	1.94	0.96
1:E:92:ILE:HD13	1:E:323:LYS:CA	1.95	0.96
1:F:92:ILE:HD13	1:F:323:LYS:CA	1.95	0.96
1:A:43:GLU:O	1:A:188:GLN:HG2	1.65	0.96
1:A:408:VAL:CA	1:A:409:PRO:CD	2.42	0.96
1:C:252:PHE:CD2	1:C:257:LYS:HA	2.01	0.96
1:D:282:VAL:HG13	1:D:287:GLU:CG	1.86	0.96
1:D:501:VAL:HG13	1:D:578:LEU:CD2	1.93	0.96
1:E:47:PRO:N	1:E:111:ILE:HG21	1.62	0.96
2:G:130:VAL:HA	2:H:6:GLN:CB	1.95	0.96
1:D:92:ILE:HD13	1:D:323:LYS:CA	1.95	0.96
1:F:77:GLY:C	1:F:80:PRO:CD	2.30	0.96
2:H:130:VAL:HA	2:I:6:GLN:CB	1.95	0.96
2:I:27:LYS:HG2	2:J:95:GLN:HG3	0.96	0.96
2:J:27:LYS:HG2	2:K:95:GLN:HG3	0.96	0.96
1:A:132:LEU:HG	1:A:148:ASP:CA	1.83	0.96
1:D:399:VAL:HG22	1:D:411:TYR:HD1	1.25	0.96
1:E:546:PRO:CD	1:E:546:PRO:N	2.25	0.96
1:F:408:VAL:CA	1:F:409:PRO:CD	2.43	0.96
2:G:95:GLN:HG3	2:L:27:LYS:HG2	0.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:27:LYS:HG2	2:I:95:GLN:HG3	0.96	0.96
1:B:335:ILE:CG1	1:B:362:MET:HE3	1.91	0.96
1:D:43:GLU:O	1:D:188:GLN:HG2	1.65	0.96
1:D:252:PHE:CD2	1:D:257:LYS:HA	2.01	0.96
2:H:22:GLU:CB	2:H:70:PHE:HE2	1.77	0.96
2:J:130:VAL:HA	2:K:6:GLN:CB	1.95	0.96
2:K:27:LYS:HG2	2:L:95:GLN:HG3	0.96	0.96
1:D:32:SER:HB3	1:D:426:ILE:HG21	1.45	0.96
1:D:270:LEU:HA	1:D:277:PRO:HD3	0.98	0.96
1:D:327:PHE:HD2	1:D:351:PHE:CD2	1.69	0.96
1:E:338:LEU:CB	1:E:414:ALA:HB3	1.96	0.96
1:F:338:LEU:CB	1:F:414:ALA:HB3	1.96	0.96
1:F:341:LYS:O	1:F:345:HIS:ND1	1.97	0.96
1:F:399:VAL:HG22	1:F:411:TYR:HD1	1.25	0.96
2:J:71:VAL:HG23	2:K:99:ARG:HD3	1.47	0.96
2:L:22:GLU:CB	2:L:70:PHE:HE2	1.77	0.96
1:A:320:TRP:CZ2	1:A:344:VAL:CA	2.49	0.95
1:B:320:TRP:CZ2	1:B:344:VAL:CA	2.49	0.95
1:D:119:ILE:HB	1:D:132:LEU:HB3	1.48	0.95
1:E:338:LEU:HB3	1:E:412:MET:HE3	1.47	0.95
1:F:119:ILE:HB	1:F:132:LEU:HB3	1.48	0.95
2:G:23:MET:O	2:G:71:VAL:HA	1.66	0.95
1:C:92:ILE:HD13	1:C:323:LYS:CA	1.95	0.95
1:C:119:ILE:HB	1:C:132:LEU:HB3	1.48	0.95
1:C:320:TRP:CZ2	1:C:344:VAL:CA	2.49	0.95
2:G:27:LYS:HG2	2:H:95:GLN:HG3	0.96	0.95
1:B:107:ILE:HB	1:B:193:TYR:CD2	2.00	0.95
1:C:107:ILE:HB	1:C:193:TYR:CD2	2.00	0.95
1:D:566:TYR:CD2	1:D:572:LYS:C	2.23	0.95
2:G:99:ARG:HD3	2:L:71:VAL:HG23	1.47	0.95
1:A:92:ILE:HD13	1:A:323:LYS:CA	1.95	0.95
1:A:170:GLU:CD	1:A:287:GLU:HA	1.62	0.95
1:A:355:ARG:C	1:A:361:PRO:CD	2.35	0.95
1:B:252:PHE:CD2	1:B:257:LYS:HA	2.01	0.95
1:B:527:ASP:CB	2:I:136:ASP:OD2	2.15	0.95
1:D:282:VAL:C	1:D:287:GLU:HB2	1.84	0.95
1:F:112:TYR:H	1:F:141:ASP:HB2	1.03	0.95
1:F:327:PHE:HE2	1:F:351:PHE:CD2	1.62	0.95
2:H:23:MET:O	2:H:71:VAL:HA	1.66	0.95
2:J:71:VAL:CG2	2:K:98:GLY:HA3	1.97	0.95
2:K:71:VAL:CG2	2:L:98:GLY:HA3	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:23:MET:O	2:L:71:VAL:HA	1.66	0.95
1:C:115:VAL:CG1	1:C:115:VAL:O	2.07	0.95
1:C:528:PHE:CZ	2:J:107:TYR:CB	2.49	0.95
1:D:528:PHE:CZ	2:K:107:TYR:CB	2.49	0.95
1:D:541:GLU:H	1:D:568:ILE:HD11	1.14	0.95
1:F:387:PRO:HD2	1:F:390:SER:CB	1.97	0.95
1:B:92:ILE:HD13	1:B:323:LYS:CA	1.95	0.95
1:E:80:PRO:HG3	1:E:415:VAL:HG22	1.49	0.95
1:F:320:TRP:CZ2	1:F:344:VAL:CA	2.49	0.95
1:F:355:ARG:C	1:F:361:PRO:CD	2.35	0.95
1:C:113:GLY:H	1:C:141:ASP:HB3	1.19	0.95
1:E:47:PRO:HB3	1:E:93:GLU:OE1	1.56	0.95
1:E:119:ILE:HB	1:E:132:LEU:HB3	1.48	0.95
1:E:252:PHE:CD2	1:E:257:LYS:HA	2.01	0.95
1:F:427:GLY:O	1:F:495:GLU:HG3	1.65	0.95
2:I:130:VAL:HA	2:J:6:GLN:CB	1.95	0.95
2:J:118:SER:HA	2:K:7:ASN:ND2	1.82	0.95
1:B:341:LYS:O	1:B:345:HIS:ND1	1.97	0.95
1:C:387:PRO:HD2	1:C:390:SER:CB	1.97	0.95
1:D:107:ILE:HB	1:D:193:TYR:CD2	2.00	0.95
1:E:387:PRO:HD2	1:E:390:SER:CB	1.97	0.95
1:E:399:VAL:CG2	1:E:411:TYR:CD1	2.50	0.95
2:G:6:GLN:CB	2:L:130:VAL:HA	1.95	0.95
2:G:118:SER:HA	2:H:7:ASN:ND2	1.82	0.95
2:I:71:VAL:CG2	2:J:98:GLY:HA3	1.97	0.95
1:B:535:ARG:HH22	2:I:135:GLU:CG	1.80	0.95
1:C:528:PHE:CE1	2:J:107:TYR:CB	2.50	0.95
1:F:527:ASP:HB3	2:G:136:ASP:OD2	1.65	0.95
2:G:7:ASN:ND2	2:L:118:SER:HA	1.82	0.95
2:G:98:GLY:HA3	2:L:71:VAL:CG2	1.97	0.95
1:A:119:ILE:HB	1:A:132:LEU:HB3	1.48	0.95
1:C:77:GLY:CA	1:C:80:PRO:HD2	1.94	0.95
1:D:338:LEU:CB	1:D:414:ALA:HB3	1.96	0.95
1:D:355:ARG:C	1:D:361:PRO:CD	2.35	0.95
1:F:335:ILE:CG1	1:F:362:MET:HE3	1.93	0.95
1:A:252:PHE:CD2	1:A:257:LYS:HA	2.01	0.94
1:B:43:GLU:O	1:B:188:GLN:HG2	1.65	0.94
1:B:107:ILE:CB	1:B:193:TYR:HD2	1.80	0.94
1:B:427:GLY:O	1:B:495:GLU:HG3	1.65	0.94
1:C:355:ARG:C	1:C:361:PRO:CD	2.35	0.94
1:C:528:PHE:HZ	2:J:107:TYR:HB3	1.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:150:ILE:HD12	1:D:154:PHE:HE2	1.19	0.94
2:H:118:SER:HA	2:I:7:ASN:ND2	1.82	0.94
2:K:23:MET:O	2:K:71:VAL:HA	1.66	0.94
2:K:118:SER:HA	2:L:7:ASN:ND2	1.82	0.94
1:B:270:LEU:HA	1:B:277:PRO:HD3	0.98	0.94
1:F:77:GLY:CA	1:F:80:PRO:HD2	1.94	0.94
1:F:93:GLU:HB3	1:F:140:ASP:CB	1.69	0.94
1:F:335:ILE:CG1	1:F:362:MET:HE1	1.96	0.94
1:A:399:VAL:CG2	1:A:411:TYR:CD1	2.50	0.94
1:C:114:ASN:HA	1:C:137:ILE:HD13	1.47	0.94
1:C:270:LEU:HA	1:C:277:PRO:HD3	0.98	0.94
1:C:399:VAL:CG2	1:C:411:TYR:CD1	2.50	0.94
1:E:113:GLY:H	1:E:141:ASP:HB3	1.19	0.94
1:E:355:ARG:C	1:E:361:PRO:CD	2.35	0.94
1:F:399:VAL:CG2	1:F:411:TYR:CD1	2.50	0.94
1:A:338:LEU:CB	1:A:414:ALA:HB3	1.96	0.94
1:C:107:ILE:CB	1:C:193:TYR:HD2	1.80	0.94
1:D:39:ILE:HB	1:D:326:LYS:CE	1.96	0.94
1:D:76:TRP:O	1:D:415:VAL:HG22	1.67	0.94
1:E:39:ILE:HB	1:E:326:LYS:CE	1.96	0.94
1:F:252:PHE:CD2	1:F:257:LYS:HA	2.01	0.94
1:B:93:GLU:HB3	1:B:140:ASP:CB	1.69	0.94
1:B:399:VAL:CG2	1:B:411:TYR:CD1	2.50	0.94
1:C:335:ILE:HG13	1:C:362:MET:HE3	1.49	0.94
1:D:113:GLY:H	1:D:141:ASP:HB3	1.19	0.94
1:D:352:VAL:HG13	1:D:362:MET:HG3	0.94	0.94
2:I:118:SER:HA	2:J:7:ASN:ND2	1.82	0.94
1:A:387:PRO:HD2	1:A:390:SER:CB	1.97	0.94
1:A:535:ARG:NH2	2:H:135:GLU:HG3	1.82	0.94
1:B:39:ILE:HB	1:B:326:LYS:CE	1.96	0.94
1:C:338:LEU:CB	1:C:414:ALA:HB3	1.96	0.94
1:C:541:GLU:H	1:C:568:ILE:HD11	1.14	0.94
1:F:113:GLY:H	1:F:141:ASP:HB3	1.19	0.94
2:I:22:GLU:CB	2:I:70:PHE:HE2	1.77	0.94
2:K:22:GLU:CB	2:K:70:PHE:HE2	1.77	0.94
1:C:32:SER:HB3	1:C:426:ILE:HG21	1.45	0.94
1:D:47:PRO:N	1:D:111:ILE:HG21	1.62	0.94
1:D:114:ASN:HA	1:D:137:ILE:HD13	1.47	0.94
1:D:320:TRP:CZ2	1:D:344:VAL:CA	2.49	0.94
1:A:39:ILE:HB	1:A:326:LYS:CE	1.96	0.94
1:B:76:TRP:HD1	1:B:415:VAL:HB	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:ILE:HB	1:B:132:LEU:HB3	1.48	0.94
1:B:352:VAL:HG13	1:B:362:MET:HG3	0.94	0.94
1:B:535:ARG:NH2	2:I:135:GLU:HG3	1.82	0.94
1:D:76:TRP:HA	1:D:415:VAL:CG2	1.97	0.94
1:E:320:TRP:CZ2	1:E:344:VAL:CA	2.49	0.94
1:F:39:ILE:HB	1:F:326:LYS:CE	1.96	0.94
1:F:114:ASN:HA	1:F:137:ILE:HD13	1.47	0.94
2:I:127:GLU:CA	2:J:8:THR:HB	1.98	0.94
1:A:107:ILE:CB	1:A:193:TYR:HD2	1.80	0.94
1:C:541:GLU:N	1:C:568:ILE:CD1	2.31	0.94
1:F:80:PRO:HG3	1:F:415:VAL:HG22	1.49	0.94
1:A:352:VAL:HG13	1:A:362:MET:HG3	0.94	0.94
1:B:119:ILE:HG21	1:B:181:LEU:HD11	1.49	0.94
1:B:338:LEU:C	1:B:412:MET:HE2	1.87	0.94
1:B:387:PRO:HD2	1:B:390:SER:CB	1.97	0.94
1:D:428:GLU:N	1:D:469:THR:HG1	1.64	0.94
1:E:352:VAL:HG13	1:E:362:MET:HG3	0.94	0.94
2:I:23:MET:O	2:I:71:VAL:HA	1.66	0.94
1:A:39:ILE:HD11	1:A:327:PHE:HB2	0.93	0.93
1:B:355:ARG:C	1:B:361:PRO:CD	2.35	0.93
1:C:39:ILE:HD11	1:C:327:PHE:HB2	0.94	0.93
1:C:39:ILE:HB	1:C:326:LYS:CE	1.96	0.93
1:D:387:PRO:HD2	1:D:390:SER:CB	1.97	0.93
2:G:71:VAL:CG2	2:H:98:GLY:HA3	1.97	0.93
2:H:71:VAL:CG2	2:I:98:GLY:HA3	1.97	0.93
2:H:71:VAL:HG23	2:I:99:ARG:HD3	1.47	0.93
1:A:47:PRO:HB3	1:A:93:GLU:OE1	1.56	0.93
1:A:282:VAL:HG13	1:A:287:GLU:CG	1.85	0.93
1:A:428:GLU:N	1:A:469:THR:HG1	1.66	0.93
1:B:338:LEU:CB	1:B:414:ALA:HB3	1.96	0.93
1:D:107:ILE:CB	1:D:193:TYR:HD2	1.80	0.93
1:D:399:VAL:CG2	1:D:411:TYR:CD1	2.50	0.93
2:G:23:MET:O	2:G:71:VAL:O	1.87	0.93
1:A:55:ASN:ND2	1:A:58:GLN:HG3	1.84	0.93
1:A:80:PRO:HG3	1:A:415:VAL:HG22	1.49	0.93
1:B:92:ILE:HG13	1:B:326:LYS:CD	1.99	0.93
1:C:427:GLY:O	1:C:495:GLU:HG3	1.65	0.93
1:D:541:GLU:N	1:D:568:ILE:CD1	2.31	0.93
1:E:335:ILE:CG1	1:E:362:MET:HE1	1.97	0.93
2:G:23:MET:HG2	2:G:70:PHE:CE1	2.03	0.93
2:G:127:GLU:CA	2:H:8:THR:HB	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:24:ALA:CA	2:K:71:VAL:CA	2.46	0.93
2:K:71:VAL:HG23	2:L:99:ARG:HD3	1.47	0.93
2:L:23:MET:O	2:L:71:VAL:O	1.87	0.93
1:B:77:GLY:C	1:B:80:PRO:CD	2.30	0.93
1:B:428:GLU:N	1:B:469:THR:OG1	2.02	0.93
1:C:47:PRO:N	1:C:111:ILE:HG21	1.62	0.93
1:D:427:GLY:O	1:D:495:GLU:HG3	1.65	0.93
1:F:267:PHE:O	1:F:268:GLU:HB3	1.69	0.93
1:F:338:LEU:CD1	1:F:393:ALA:HB3	1.98	0.93
1:A:114:ASN:HA	1:A:137:ILE:HD13	1.48	0.93
1:D:92:ILE:CD1	1:D:326:LYS:HZ1	1.80	0.93
1:F:428:GLU:N	1:F:469:THR:OG1	2.02	0.93
2:J:22:GLU:CB	2:J:70:PHE:HE2	1.77	0.93
1:A:541:GLU:N	1:A:568:ILE:CD1	2.31	0.93
1:C:55:ASN:ND2	1:C:58:GLN:HG3	1.84	0.93
1:C:327:PHE:HD2	1:C:351:PHE:CD2	1.69	0.93
1:D:39:ILE:HD11	1:D:327:PHE:HB2	0.93	0.93
1:F:39:ILE:HD11	1:F:327:PHE:HB2	0.93	0.93
1:F:107:ILE:CB	1:F:193:TYR:HD2	1.80	0.93
1:F:150:ILE:HD12	1:F:154:PHE:HE2	1.19	0.93
1:F:535:ARG:HH22	2:G:135:GLU:CD	1.71	0.93
2:G:24:ALA:CA	2:G:71:VAL:CA	2.46	0.93
2:G:98:GLY:O	2:L:25:HIS:CD2	2.22	0.93
2:H:23:MET:HG2	2:H:70:PHE:CE1	2.03	0.93
2:K:23:MET:O	2:K:74:MET:HB2	1.62	0.93
1:B:267:PHE:O	1:B:268:GLU:HB3	1.69	0.93
1:C:92:ILE:HG13	1:C:326:LYS:CD	1.99	0.93
1:C:119:ILE:HG21	1:C:181:LEU:HD11	1.49	0.93
1:C:409:PRO:HB2	1:C:411:TYR:HE1	1.27	0.93
1:E:541:GLU:N	1:E:568:ILE:CD1	2.31	0.93
2:H:127:GLU:CA	2:I:8:THR:HB	1.98	0.93
2:J:25:HIS:CD2	2:K:98:GLY:O	2.22	0.93
2:L:23:MET:HG2	2:L:70:PHE:CE1	2.03	0.93
1:E:107:ILE:CB	1:E:193:TYR:HD2	1.80	0.93
2:I:23:MET:O	2:I:74:MET:HB2	1.62	0.93
2:I:25:HIS:CD2	2:J:98:GLY:O	2.22	0.93
1:A:267:PHE:O	1:A:268:GLU:HB3	1.69	0.93
1:B:80:PRO:HG3	1:B:415:VAL:HG22	1.49	0.93
1:B:150:ILE:HD12	1:B:154:PHE:HE2	1.18	0.93
1:D:428:GLU:N	1:D:469:THR:OG1	2.02	0.93
1:E:76:TRP:HA	1:E:415:VAL:CG2	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:428:GLU:N	1:E:469:THR:HG1	1.64	0.93
1:F:541:GLU:N	1:F:568:ILE:CD1	2.31	0.93
1:B:541:GLU:N	1:B:568:ILE:CD1	2.31	0.93
1:C:76:TRP:O	1:C:415:VAL:HG22	1.67	0.93
2:G:8:THR:HB	2:L:127:GLU:CA	1.98	0.93
1:B:114:ASN:HA	1:B:137:ILE:HD13	1.47	0.92
1:C:92:ILE:HD13	1:C:323:LYS:HG2	1.50	0.92
1:C:428:GLU:N	1:C:469:THR:OG1	2.02	0.92
1:D:528:PHE:HZ	2:K:107:TYR:HB3	1.26	0.92
1:E:39:ILE:HD11	1:E:327:PHE:HB2	0.93	0.92
1:E:170:GLU:CD	1:E:287:GLU:HA	1.62	0.92
2:G:25:HIS:CD2	2:H:98:GLY:O	2.22	0.92
1:A:150:ILE:HD12	1:A:154:PHE:HE2	1.18	0.92
1:A:338:LEU:C	1:A:412:MET:HE2	1.90	0.92
1:C:267:PHE:O	1:C:268:GLU:HB3	1.69	0.92
1:D:55:ASN:ND2	1:D:58:GLN:HG3	1.84	0.92
1:E:427:GLY:O	1:E:495:GLU:HG3	1.66	0.92
2:K:25:HIS:CD2	2:L:98:GLY:O	2.22	0.92
2:K:127:GLU:CA	2:L:8:THR:HB	1.98	0.92
1:A:119:ILE:HG21	1:A:181:LEU:HD11	1.49	0.92
1:B:39:ILE:HD11	1:B:327:PHE:HB2	0.93	0.92
1:B:320:TRP:HZ2	1:B:343:SER:C	1.59	0.92
1:C:537:LYS:CB	1:C:545:PHE:CE2	2.53	0.92
1:D:92:ILE:HD13	1:D:323:LYS:HG2	1.50	0.92
1:D:528:PHE:HE1	2:K:107:TYR:CB	1.79	0.92
1:D:532:TYR:CZ	1:D:536:LYS:HE2	2.04	0.92
1:D:537:LYS:CB	1:D:545:PHE:CE2	2.53	0.92
1:F:541:GLU:H	1:F:568:ILE:HD11	1.14	0.92
2:J:24:ALA:CA	2:J:71:VAL:CA	2.46	0.92
1:A:527:ASP:HB3	2:H:136:ASP:OD2	1.68	0.92
1:D:132:LEU:HG	1:D:148:ASP:CA	1.83	0.92
1:E:537:LYS:CB	1:E:545:PHE:CE2	2.53	0.92
1:F:55:ASN:ND2	1:F:58:GLN:HG3	1.84	0.92
2:H:23:MET:O	2:H:71:VAL:O	1.87	0.92
1:B:550:VAL:HG11	1:B:555:GLU:O	1.69	0.92
1:D:47:PRO:HG3	1:D:93:GLU:OE1	1.70	0.92
1:E:150:ILE:HD12	1:E:154:PHE:HE2	1.18	0.92
1:F:352:VAL:HG13	1:F:362:MET:HG3	0.94	0.92
2:G:99:ARG:NE	2:L:70:PHE:N	2.05	0.92
2:J:127:GLU:CA	2:K:8:THR:HB	1.98	0.92
2:K:129:GLU:O	2:L:6:GLN:CB	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:ILE:HG13	1:A:326:LYS:CD	1.99	0.92
1:A:541:GLU:H	1:A:568:ILE:HD11	1.14	0.92
1:A:550:VAL:HG11	1:A:555:GLU:O	1.69	0.92
1:C:80:PRO:HG3	1:C:415:VAL:HG22	1.49	0.92
1:C:352:VAL:HG13	1:C:362:MET:HG3	0.94	0.92
1:D:80:PRO:HG3	1:D:415:VAL:HG22	1.49	0.92
2:K:23:MET:O	2:K:71:VAL:O	1.87	0.92
1:E:267:PHE:O	1:E:268:GLU:HB3	1.69	0.92
1:E:532:TYR:CZ	1:E:536:LYS:HE2	2.04	0.92
1:E:535:ARG:NH2	2:L:135:GLU:CG	2.33	0.92
2:H:130:VAL:HG22	2:I:6:GLN:HB3	1.50	0.92
2:K:71:VAL:HG13	2:L:98:GLY:HA3	1.51	0.92
1:A:76:TRP:O	1:A:415:VAL:HG22	1.67	0.92
1:A:320:TRP:HZ2	1:A:343:SER:C	1.59	0.92
1:A:428:GLU:N	1:A:469:THR:OG1	2.02	0.92
1:B:55:ASN:ND2	1:B:58:GLN:HG3	1.84	0.92
1:E:92:ILE:HG13	1:E:326:LYS:CD	1.99	0.92
1:E:93:GLU:HB3	1:E:140:ASP:CB	1.69	0.92
2:I:23:MET:HG2	2:I:70:PHE:CE1	2.03	0.92
1:A:532:TYR:CZ	1:A:536:LYS:HE2	2.04	0.92
1:E:36:PHE:CE2	1:E:419:GLY:HA2	2.05	0.92
1:E:541:GLU:H	1:E:568:ILE:HD11	1.14	0.92
1:F:119:ILE:HG21	1:F:181:LEU:HD11	1.49	0.92
2:I:129:GLU:O	2:J:6:GLN:CB	2.18	0.92
2:J:23:MET:O	2:J:71:VAL:HA	1.66	0.92
2:J:23:MET:O	2:J:74:MET:HB2	1.62	0.92
2:J:23:MET:HG2	2:J:70:PHE:CE1	2.03	0.92
2:K:23:MET:HG2	2:K:70:PHE:CE1	2.03	0.92
1:A:32:SER:OG	1:A:426:ILE:CB	2.18	0.92
1:C:32:SER:OG	1:C:426:ILE:CB	2.18	0.92
1:C:47:PRO:HG3	1:C:93:GLU:OE1	1.70	0.92
2:G:71:VAL:HG13	2:H:98:GLY:HA3	1.51	0.92
2:J:23:MET:O	2:J:71:VAL:O	1.87	0.92
2:K:130:VAL:HG22	2:L:6:GLN:HB3	1.50	0.92
1:A:47:PRO:HG3	1:A:93:GLU:OE1	1.70	0.91
1:B:76:TRP:O	1:B:415:VAL:HG22	1.67	0.91
1:B:382:ALA:HA	1:B:384:LEU:HD13	1.52	0.91
1:C:382:ALA:HA	1:C:384:LEU:HD13	1.52	0.91
1:D:36:PHE:CE2	1:D:419:GLY:HA2	2.05	0.91
1:D:528:PHE:HE1	2:K:107:TYR:HB2	1.34	0.91
1:E:32:SER:OG	1:E:426:ILE:CB	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:327:PHE:HE2	1:E:351:PHE:CD2	1.62	0.91
1:F:32:SER:OG	1:F:426:ILE:CB	2.18	0.91
1:F:76:TRP:HA	1:F:415:VAL:CG2	1.97	0.91
1:F:537:LYS:CB	1:F:545:PHE:CE2	2.53	0.91
2:G:129:GLU:O	2:H:6:GLN:CB	2.18	0.91
2:I:23:MET:O	2:I:71:VAL:O	1.87	0.91
1:C:76:TRP:CA	1:C:415:VAL:CG2	2.47	0.91
1:C:335:ILE:CG1	1:C:362:MET:HE3	2.00	0.91
1:C:532:TYR:CZ	1:C:536:LYS:HE2	2.04	0.91
1:D:34:LYS:CG	1:D:422:SER:CB	2.48	0.91
1:B:76:TRP:CA	1:B:415:VAL:CG2	2.47	0.91
1:B:92:ILE:HD13	1:B:323:LYS:HG2	1.50	0.91
1:E:93:GLU:HB2	1:E:140:ASP:HB3	0.92	0.91
1:E:114:ASN:HA	1:E:137:ILE:HD13	1.47	0.91
1:F:92:ILE:HD13	1:F:323:LYS:HG2	1.50	0.91
1:F:535:ARG:HH22	2:G:135:GLU:CG	1.82	0.91
2:G:6:GLN:CB	2:L:129:GLU:O	2.18	0.91
2:H:25:HIS:CD2	2:I:98:GLY:O	2.22	0.91
2:I:130:VAL:HG22	2:J:6:GLN:HB3	1.50	0.91
2:J:17:PHE:C	2:J:74:MET:HE1	1.91	0.91
1:A:464:ARG:O	1:A:465:ASN:HB2	1.71	0.91
1:B:32:SER:OG	1:B:426:ILE:CB	2.18	0.91
1:B:532:TYR:CZ	1:B:536:LYS:HE2	2.04	0.91
1:E:55:ASN:ND2	1:E:58:GLN:HG3	1.84	0.91
1:F:76:TRP:CA	1:F:415:VAL:CG2	2.47	0.91
1:F:338:LEU:C	1:F:412:MET:HE2	1.91	0.91
2:I:68:SER:CA	2:J:102:GLU:OE1	2.18	0.91
2:J:23:MET:HB3	2:J:74:MET:CA	2.00	0.91
2:J:68:SER:CA	2:K:102:GLU:OE1	2.18	0.91
1:A:76:TRP:HA	1:A:415:VAL:CG2	1.97	0.91
1:B:93:GLU:HB2	1:B:140:ASP:HB3	0.92	0.91
1:C:338:LEU:CD1	1:C:393:ALA:HB3	1.98	0.91
1:D:92:ILE:HG13	1:D:326:LYS:CD	1.99	0.91
1:D:527:ASP:CG	2:K:136:ASP:OD2	2.09	0.91
1:D:550:VAL:HG11	1:D:555:GLU:O	1.69	0.91
1:E:76:TRP:O	1:E:415:VAL:HG22	1.67	0.91
1:E:320:TRP:CZ2	1:E:344:VAL:N	2.39	0.91
1:E:537:LYS:CG	1:E:545:PHE:HE2	1.84	0.91
2:J:130:VAL:HG22	2:K:6:GLN:HB3	1.50	0.91
1:B:76:TRP:HA	1:B:415:VAL:CG2	1.97	0.91
1:B:338:LEU:CD1	1:B:393:ALA:HB3	1.98	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:36:PHE:CE2	1:C:419:GLY:HA2	2.05	0.91
1:D:32:SER:OG	1:D:426:ILE:CB	2.18	0.91
1:D:320:TRP:CZ2	1:D:344:VAL:N	2.39	0.91
1:E:119:ILE:HG21	1:E:181:LEU:HD11	1.49	0.91
1:B:76:TRP:CD1	1:B:415:VAL:CB	2.54	0.91
1:F:36:PHE:CE2	1:F:419:GLY:HA2	2.05	0.91
2:K:68:SER:CA	2:L:102:GLU:OE1	2.18	0.91
1:A:76:TRP:CD1	1:A:415:VAL:CB	2.54	0.91
1:A:269:GLN:O	1:A:277:PRO:CD	2.19	0.91
1:A:537:LYS:CB	1:A:545:PHE:CE2	2.53	0.91
1:C:34:LYS:CG	1:C:422:SER:CB	2.48	0.91
1:C:76:TRP:CD1	1:C:415:VAL:CB	2.54	0.91
1:D:269:GLN:O	1:D:277:PRO:CD	2.19	0.91
1:E:47:PRO:HG3	1:E:93:GLU:OE1	1.70	0.91
1:F:47:PRO:HG3	1:F:93:GLU:OE1	1.70	0.91
1:F:76:TRP:O	1:F:415:VAL:HG22	1.67	0.91
1:F:92:ILE:HG13	1:F:326:LYS:CD	1.99	0.91
1:F:532:TYR:CZ	1:F:536:LYS:HE2	2.04	0.91
1:F:550:VAL:HG11	1:F:555:GLU:O	1.69	0.91
2:G:6:GLN:CB	2:L:130:VAL:HG22	2.01	0.91
2:G:70:PHE:N	2:H:99:ARG:NE	2.05	0.91
2:J:71:VAL:HG13	2:K:98:GLY:HA3	1.51	0.91
2:J:129:GLU:O	2:K:6:GLN:CB	2.18	0.91
1:B:47:PRO:N	1:B:111:ILE:HG21	1.62	0.91
1:C:150:ILE:HD12	1:C:154:PHE:HE2	1.19	0.91
1:C:269:GLN:O	1:C:277:PRO:CD	2.19	0.91
1:C:320:TRP:CZ2	1:C:344:VAL:N	2.39	0.91
1:D:259:THR:HB	1:D:261:TYR:CE1	2.06	0.91
1:E:92:ILE:HD13	1:E:323:LYS:HG2	1.50	0.91
1:E:550:VAL:HG11	1:E:555:GLU:O	1.69	0.91
1:F:92:ILE:CD1	1:F:326:LYS:HZ1	1.83	0.91
1:C:53:LEU:HD11	1:C:63:PHE:CE2	2.06	0.91
1:C:550:VAL:HG11	1:C:555:GLU:O	1.69	0.91
2:I:68:SER:CB	2:J:102:GLU:CD	2.40	0.91
1:B:53:LEU:HD11	1:B:63:PHE:CE2	2.06	0.90
1:B:269:GLN:O	1:B:277:PRO:CD	2.19	0.90
1:C:77:GLY:C	1:C:80:PRO:CD	2.30	0.90
1:C:338:LEU:CD1	1:C:414:ALA:CB	1.96	0.90
1:E:53:LEU:HD11	1:E:63:PHE:CE2	2.06	0.90
1:E:566:TYR:CD2	1:E:572:LYS:C	2.23	0.90
1:F:34:LYS:CG	1:F:422:SER:CB	2.48	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:LEU:HD11	1:F:63:PHE:CE2	2.06	0.90
1:F:76:TRP:CD1	1:F:415:VAL:CB	2.54	0.90
1:F:93:GLU:HB3	1:F:140:ASP:C	1.92	0.90
2:G:130:VAL:CA	2:H:6:GLN:CB	2.50	0.90
2:I:17:PHE:C	2:I:74:MET:HE1	1.91	0.90
1:A:93:GLU:HB2	1:A:140:ASP:HB3	0.92	0.90
1:A:259:THR:HB	1:A:261:TYR:CE1	2.06	0.90
1:A:409:PRO:HB2	1:A:411:TYR:HE1	1.27	0.90
1:B:113:GLY:H	1:B:141:ASP:HB3	1.19	0.90
1:C:47:PRO:HB3	1:C:93:GLU:OE1	1.56	0.90
1:C:367:GLY:CA	1:C:393:ALA:HB3	2.01	0.90
1:F:382:ALA:HA	1:F:384:LEU:HD13	1.52	0.90
2:H:71:VAL:HG13	2:I:98:GLY:HA3	1.51	0.90
2:J:68:SER:CB	2:K:102:GLU:CD	2.40	0.90
2:K:23:MET:O	2:K:70:PHE:O	1.89	0.90
2:L:23:MET:O	2:L:70:PHE:O	1.89	0.90
1:B:36:PHE:CE2	1:B:419:GLY:HA2	2.05	0.90
1:B:537:LYS:CB	1:B:545:PHE:CE2	2.53	0.90
1:D:53:LEU:HD11	1:D:63:PHE:CE2	2.06	0.90
1:E:76:TRP:CA	1:E:415:VAL:CG2	2.47	0.90
1:E:382:ALA:HA	1:E:384:LEU:HD13	1.52	0.90
1:E:428:GLU:N	1:E:469:THR:OG1	2.02	0.90
1:F:320:TRP:HZ2	1:F:343:SER:C	1.59	0.90
2:G:68:SER:CA	2:H:102:GLU:OE1	2.18	0.90
2:I:70:PHE:N	2:J:99:ARG:NE	2.05	0.90
2:L:17:PHE:C	2:L:74:MET:HE1	1.91	0.90
1:D:92:ILE:CD1	1:D:323:LYS:HG2	2.01	0.90
1:E:283:GLU:HA	1:E:287:GLU:HB3	1.54	0.90
1:E:464:ARG:O	1:E:465:ASN:HB2	1.71	0.90
1:F:93:GLU:HB2	1:F:140:ASP:HB3	0.92	0.90
1:F:259:THR:HB	1:F:261:TYR:CE1	2.06	0.90
1:F:428:GLU:N	1:F:469:THR:HG1	1.64	0.90
2:H:68:SER:CB	2:I:102:GLU:CD	2.40	0.90
2:J:23:MET:O	2:J:70:PHE:O	1.89	0.90
1:A:36:PHE:CE2	1:A:419:GLY:HA2	2.05	0.90
1:C:92:ILE:CD1	1:C:323:LYS:HG2	2.01	0.90
1:C:259:THR:HB	1:C:261:TYR:CE1	2.06	0.90
1:D:76:TRP:CA	1:D:415:VAL:CG2	2.47	0.90
1:E:338:LEU:CD1	1:E:393:ALA:HB3	1.98	0.90
1:F:283:GLU:HA	1:F:287:GLU:HB3	1.54	0.90
1:F:320:TRP:CZ2	1:F:344:VAL:N	2.39	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:98:GLY:HA3	2:L:71:VAL:HG13	1.51	0.90
2:H:129:GLU:O	2:I:6:GLN:CB	2.18	0.90
2:K:17:PHE:C	2:K:74:MET:HE1	1.91	0.90
1:B:541:GLU:H	1:B:568:ILE:HD11	1.14	0.90
1:C:76:TRP:HA	1:C:415:VAL:CG2	1.97	0.90
1:C:93:GLU:HB3	1:C:140:ASP:C	1.92	0.90
1:E:92:ILE:CD1	1:E:323:LYS:HG2	2.01	0.90
1:E:259:THR:HB	1:E:261:TYR:CE1	2.06	0.90
1:F:269:GLN:O	1:F:277:PRO:CD	2.19	0.90
1:F:367:GLY:CA	1:F:393:ALA:HB3	2.01	0.90
2:K:130:VAL:HG22	2:L:6:GLN:CB	2.01	0.90
1:A:92:ILE:HD13	1:A:323:LYS:HG2	1.50	0.90
1:B:34:LYS:CG	1:B:422:SER:CB	2.48	0.90
1:B:367:GLY:CA	1:B:393:ALA:HB3	2.01	0.90
1:D:283:GLU:HA	1:D:287:GLU:HB3	1.54	0.90
1:F:352:VAL:CG1	1:F:362:MET:CG	2.31	0.90
1:F:387:PRO:CD	1:F:390:SER:CB	2.50	0.90
2:G:6:GLN:HB3	2:L:130:VAL:HG22	1.50	0.90
2:G:102:GLU:OE1	2:L:68:SER:CA	2.18	0.90
2:H:17:PHE:C	2:H:74:MET:HE1	1.91	0.90
2:H:24:ALA:CA	2:H:71:VAL:CA	2.46	0.90
2:H:130:VAL:CA	2:I:6:GLN:CB	2.50	0.90
2:K:68:SER:CB	2:L:102:GLU:CD	2.40	0.90
1:A:367:GLY:CA	1:A:393:ALA:HB3	2.01	0.90
1:C:283:GLU:HA	1:C:287:GLU:HB3	1.54	0.90
1:D:119:ILE:HG21	1:D:181:LEU:HD11	1.49	0.90
1:E:93:GLU:HB3	1:E:140:ASP:C	1.92	0.90
1:E:499:PHE:CE2	1:E:532:TYR:OH	2.13	0.90
2:G:68:SER:CB	2:H:102:GLU:CD	2.40	0.90
2:H:68:SER:CA	2:I:102:GLU:OE1	2.18	0.90
2:K:70:PHE:N	2:L:99:ARG:NE	2.05	0.90
1:A:53:LEU:HD11	1:A:63:PHE:CE2	2.06	0.90
1:A:55:ASN:ND2	1:A:58:GLN:CG	2.35	0.90
1:A:76:TRP:HD1	1:A:415:VAL:HB	1.31	0.90
1:B:55:ASN:ND2	1:B:58:GLN:CG	2.35	0.90
2:G:130:VAL:HG22	2:H:6:GLN:HB3	1.50	0.90
2:K:23:MET:HB3	2:K:74:MET:CA	2.00	0.90
1:A:112:TYR:H	1:A:141:ASP:HB2	1.03	0.90
1:A:382:ALA:HA	1:A:384:LEU:HD13	1.52	0.90
1:B:259:THR:HB	1:B:261:TYR:CE1	2.06	0.90
1:D:382:ALA:HA	1:D:384:LEU:HD13	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:387:PRO:CD	1:D:390:SER:CB	2.50	0.90
1:E:524:ILE:HG12	2:L:107:TYR:CE2	2.05	0.90
2:G:6:GLN:CB	2:L:130:VAL:CA	2.50	0.90
2:G:98:GLY:C	2:L:25:HIS:CD2	2.46	0.90
2:G:102:GLU:CD	2:L:68:SER:CB	2.40	0.90
2:J:130:VAL:CA	2:K:6:GLN:CB	2.50	0.90
1:B:92:ILE:CD1	1:B:323:LYS:HG2	2.01	0.89
1:C:464:ARG:O	1:C:465:ASN:HB2	1.71	0.89
1:D:134:LEU:CD2	1:D:143:PHE:CD1	2.55	0.89
1:D:324:LEU:HD11	1:D:351:PHE:CZ	2.07	0.89
1:E:134:LEU:CD2	1:E:143:PHE:CD1	2.55	0.89
1:F:92:ILE:CD1	1:F:323:LYS:HG2	2.01	0.89
2:G:25:HIS:CD2	2:H:98:GLY:C	2.46	0.89
2:H:130:VAL:HG22	2:I:6:GLN:CB	2.01	0.89
2:I:130:VAL:HG22	2:J:6:GLN:CB	2.01	0.89
2:J:130:VAL:HG22	2:K:6:GLN:CB	2.01	0.89
1:A:93:GLU:HB3	1:A:140:ASP:C	1.92	0.89
1:B:47:PRO:HG3	1:B:93:GLU:OE1	1.70	0.89
1:B:93:GLU:HB3	1:B:140:ASP:C	1.92	0.89
1:D:76:TRP:CD1	1:D:415:VAL:CB	2.54	0.89
2:H:25:HIS:CD2	2:I:98:GLY:C	2.46	0.89
1:B:283:GLU:HA	1:B:287:GLU:HB3	1.54	0.89
1:E:367:GLY:CA	1:E:393:ALA:HB3	2.01	0.89
1:F:324:LEU:HD11	1:F:351:PHE:CZ	2.07	0.89
2:G:23:MET:O	2:G:70:PHE:O	1.89	0.89
2:G:130:VAL:H	2:H:6:GLN:HG2	1.07	0.89
2:K:25:HIS:CD2	2:L:98:GLY:C	2.46	0.89
1:E:282:VAL:HG13	1:E:287:GLU:CG	1.86	0.89
1:F:55:ASN:ND2	1:F:58:GLN:CG	2.35	0.89
1:F:134:LEU:CD2	1:F:143:PHE:CD1	2.55	0.89
2:G:17:PHE:C	2:G:74:MET:HE1	1.91	0.89
2:G:63:PHE:C	2:H:96:SER:CB	2.41	0.89
2:I:23:MET:O	2:I:70:PHE:O	1.89	0.89
2:I:63:PHE:C	2:J:96:SER:CB	2.41	0.89
2:I:130:VAL:CA	2:J:6:GLN:CB	2.50	0.89
1:C:55:ASN:ND2	1:C:58:GLN:CG	2.35	0.89
1:D:267:PHE:O	1:D:268:GLU:HB3	1.69	0.89
1:F:464:ARG:O	1:F:465:ASN:HB2	1.71	0.89
1:A:113:GLY:H	1:A:141:ASP:HB3	1.19	0.89
1:A:119:ILE:HB	1:A:132:LEU:CB	2.03	0.89
1:A:283:GLU:HA	1:A:287:GLU:HB3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:499:PHE:CE2	1:C:532:TYR:OH	2.13	0.89
1:F:76:TRP:HD1	1:F:415:VAL:HB	1.32	0.89
2:J:63:PHE:C	2:K:96:SER:CB	2.41	0.89
1:A:92:ILE:CD1	1:A:323:LYS:HG2	2.01	0.89
1:B:320:TRP:CZ2	1:B:344:VAL:N	2.39	0.89
1:C:528:PHE:CE1	2:J:107:TYR:HB3	2.07	0.89
1:D:367:GLY:CA	1:D:393:ALA:HB3	2.01	0.89
1:D:499:PHE:CE2	1:D:532:TYR:OH	2.13	0.89
1:E:76:TRP:CD1	1:E:415:VAL:CB	2.54	0.89
1:E:387:PRO:CD	1:E:390:SER:CB	2.50	0.89
2:G:130:VAL:HG22	2:H:6:GLN:CB	2.01	0.89
2:I:25:HIS:CD2	2:J:98:GLY:C	2.46	0.89
1:A:324:LEU:HD11	1:A:351:PHE:CZ	2.08	0.89
1:C:428:GLU:N	1:C:469:THR:HG1	1.65	0.89
1:D:93:GLU:OE2	1:D:111:ILE:HB	1.73	0.89
1:E:324:LEU:HD11	1:E:351:PHE:CZ	2.08	0.89
1:F:119:ILE:HB	1:F:132:LEU:CB	2.03	0.89
1:F:537:LYS:CG	1:F:545:PHE:HE2	1.84	0.89
2:G:23:MET:HB3	2:G:74:MET:CA	2.00	0.89
2:G:96:SER:CB	2:L:63:PHE:C	2.41	0.89
2:H:130:VAL:H	2:I:6:GLN:HG2	1.07	0.89
2:K:130:VAL:CA	2:L:6:GLN:CB	2.50	0.89
2:L:23:MET:C	2:L:71:VAL:HA	1.93	0.89
1:F:47:PRO:HB3	1:F:93:GLU:OE1	1.56	0.89
1:F:355:ARG:CG	1:F:361:PRO:HD2	2.03	0.89
2:I:71:VAL:HG13	2:J:98:GLY:HA3	1.51	0.89
1:A:387:PRO:CD	1:A:390:SER:CB	2.50	0.89
1:D:355:ARG:CG	1:D:361:PRO:HD2	2.03	0.89
2:G:23:MET:CB	2:G:74:MET:CA	2.28	0.89
2:G:23:MET:C	2:G:71:VAL:HA	1.93	0.89
2:H:23:MET:O	2:H:70:PHE:O	1.89	0.89
2:H:24:ALA:CB	2:H:71:VAL:HA	2.03	0.89
2:I:23:MET:CB	2:I:74:MET:CA	2.28	0.89
2:J:25:HIS:CD2	2:K:98:GLY:C	2.46	0.89
1:A:93:GLU:OE2	1:A:111:ILE:HB	1.73	0.88
1:C:134:LEU:CD2	1:C:143:PHE:CD1	2.55	0.88
1:D:537:LYS:HG3	1:D:545:PHE:HE2	1.33	0.88
1:A:338:LEU:CD1	1:A:393:ALA:HB3	1.98	0.88
1:B:93:GLU:OE2	1:B:111:ILE:HB	1.73	0.88
1:C:32:SER:CB	1:C:426:ILE:CG2	2.51	0.88
1:C:81:ASN:HA	1:C:84:ALA:CB	2.01	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:387:PRO:CD	1:C:390:SER:CB	2.50	0.88
1:D:32:SER:CB	1:D:426:ILE:CG2	2.51	0.88
1:D:93:GLU:HB3	1:D:140:ASP:C	1.92	0.88
1:D:540:ASN:O	1:D:541:GLU:CB	2.21	0.88
1:E:270:LEU:HD12	1:E:271:ASN:O	1.74	0.88
2:G:24:ALA:CB	2:G:71:VAL:HA	2.03	0.88
1:B:119:ILE:HB	1:B:132:LEU:CB	2.02	0.88
1:B:134:LEU:HD22	1:B:143:PHE:CD1	2.08	0.88
1:B:387:PRO:CD	1:B:390:SER:CB	2.50	0.88
1:C:93:GLU:HB3	1:C:140:ASP:CB	1.69	0.88
1:C:119:ILE:HB	1:C:132:LEU:CB	2.03	0.88
1:C:540:ASN:O	1:C:541:GLU:CB	2.21	0.88
1:E:81:ASN:HA	1:E:84:ALA:CB	2.01	0.88
1:F:92:ILE:HG13	1:F:326:LYS:HD3	1.54	0.88
1:F:535:ARG:NH2	2:G:135:GLU:CG	2.35	0.88
2:G:6:GLN:HG2	2:L:130:VAL:H	1.07	0.88
2:G:24:ALA:HB1	2:G:71:VAL:HG12	0.89	0.88
2:I:24:ALA:CB	2:I:71:VAL:HA	2.03	0.88
1:A:36:PHE:CZ	1:A:422:SER:HB3	2.09	0.88
1:A:134:LEU:HD22	1:A:143:PHE:CD1	2.08	0.88
1:B:499:PHE:CE2	1:B:532:TYR:OH	2.13	0.88
1:D:352:VAL:HG13	1:D:362:MET:HG2	1.56	0.88
1:F:32:SER:CB	1:F:426:ILE:CG2	2.51	0.88
1:A:320:TRP:CZ2	1:A:344:VAL:N	2.39	0.88
1:B:428:GLU:N	1:B:469:THR:HG1	1.65	0.88
2:H:63:PHE:C	2:I:96:SER:CB	2.41	0.88
2:K:23:MET:C	2:K:71:VAL:HA	1.93	0.88
1:B:355:ARG:CG	1:B:361:PRO:HD2	2.03	0.88
1:B:464:ARG:O	1:B:465:ASN:HB2	1.71	0.88
1:C:541:GLU:H	1:C:568:ILE:CD1	1.87	0.88
1:D:134:LEU:HD22	1:D:143:PHE:CD1	2.08	0.88
1:E:537:LYS:HG3	1:E:545:PHE:HE2	1.33	0.88
1:F:270:LEU:HD12	1:F:271:ASN:O	1.73	0.88
1:F:327:PHE:CZ	1:F:348:VAL:HG13	2.09	0.88
2:J:88:LEU:HD23	2:J:88:LEU:C	1.94	0.88
2:L:88:LEU:HD23	2:L:88:LEU:C	1.94	0.88
1:A:92:ILE:HG13	1:A:326:LYS:HD3	1.54	0.88
1:A:327:PHE:HD2	1:A:351:PHE:CD2	1.69	0.88
1:B:324:LEU:HD11	1:B:351:PHE:CZ	2.07	0.88
1:B:535:ARG:HH22	2:I:135:GLU:CD	1.75	0.88
1:B:537:LYS:HG3	1:B:545:PHE:HD2	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:GLU:OE2	1:C:111:ILE:HB	1.73	0.88
1:C:452:LEU:HD12	1:C:453:ASN:N	1.89	0.88
1:D:36:PHE:CZ	1:D:422:SER:HB3	2.09	0.88
1:E:32:SER:CB	1:E:426:ILE:CG2	2.51	0.88
1:E:352:VAL:HG13	1:E:362:MET:HG2	1.56	0.88
1:E:355:ARG:CG	1:E:361:PRO:HD2	2.03	0.88
2:L:24:ALA:HB1	2:L:71:VAL:HG12	0.89	0.88
1:B:134:LEU:CD2	1:B:143:PHE:CD1	2.55	0.88
1:B:409:PRO:HB2	1:B:411:TYR:HE1	1.27	0.88
1:C:324:LEU:HD11	1:C:351:PHE:CZ	2.08	0.88
1:D:81:ASN:HA	1:D:84:ALA:CB	2.01	0.88
1:F:110:LYS:HB3	1:F:192:SER:CB	2.04	0.88
1:A:134:LEU:CD2	1:A:143:PHE:CD1	2.55	0.88
1:B:81:ASN:HA	1:B:84:ALA:CB	2.01	0.88
1:B:452:LEU:HD12	1:B:453:ASN:N	1.89	0.88
1:D:55:ASN:ND2	1:D:58:GLN:CG	2.35	0.88
1:D:535:ARG:NH2	2:K:135:GLU:CG	2.37	0.88
1:E:92:ILE:HG13	1:E:326:LYS:HD3	1.54	0.88
1:E:541:GLU:H	1:E:568:ILE:CD1	1.87	0.88
1:C:76:TRP:HD1	1:C:415:VAL:HB	1.31	0.87
1:D:320:TRP:CD1	1:D:340:SER:HB2	2.09	0.87
1:E:269:GLN:O	1:E:277:PRO:CD	2.19	0.87
1:B:36:PHE:CZ	1:B:422:SER:HB3	2.09	0.87
1:C:36:PHE:CZ	1:C:422:SER:HB3	2.09	0.87
1:D:564:THR:HG22	1:D:573:LYS:HB3	1.56	0.87
1:E:119:ILE:HB	1:E:132:LEU:CB	2.03	0.87
1:E:270:LEU:HD13	1:E:271:ASN:O	1.74	0.87
1:E:320:TRP:CD1	1:E:340:SER:HB2	2.09	0.87
1:F:36:PHE:CZ	1:F:422:SER:HB3	2.09	0.87
1:F:320:TRP:NE1	1:F:344:VAL:HG22	1.90	0.87
1:F:540:ASN:O	1:F:541:GLU:CB	2.21	0.87
1:F:541:GLU:H	1:F:568:ILE:CD1	1.87	0.87
2:K:88:LEU:HD23	2:K:88:LEU:C	1.94	0.87
1:A:452:LEU:HD12	1:A:453:ASN:N	1.89	0.87
1:C:355:ARG:CG	1:C:361:PRO:HD2	2.03	0.87
1:D:93:GLU:HB2	1:D:140:ASP:HB3	0.91	0.87
1:D:119:ILE:HB	1:D:132:LEU:CB	2.03	0.87
1:D:270:LEU:HD12	1:D:271:ASN:O	1.73	0.87
1:E:34:LYS:CG	1:E:422:SER:CB	2.48	0.87
1:E:320:TRP:NE1	1:E:344:VAL:HG22	1.90	0.87
1:E:327:PHE:CD2	1:E:351:PHE:CE2	2.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:564:THR:HG22	1:E:573:LYS:HB3	1.56	0.87
2:I:88:LEU:C	2:I:88:LEU:HD23	1.94	0.87
1:A:76:TRP:CA	1:A:415:VAL:CG2	2.47	0.87
1:A:499:PHE:CE2	1:A:532:TYR:OH	2.13	0.87
1:B:32:SER:CB	1:B:426:ILE:CG2	2.51	0.87
1:B:40:GLY:H	1:B:326:LYS:HE3	1.40	0.87
1:D:92:ILE:HG13	1:D:326:LYS:HD3	1.54	0.87
1:E:55:ASN:ND2	1:E:58:GLN:CG	2.35	0.87
1:F:93:GLU:OE2	1:F:111:ILE:HB	1.73	0.87
2:J:23:MET:C	2:J:71:VAL:HA	1.93	0.87
2:K:24:ALA:HB1	2:K:71:VAL:HG12	0.89	0.87
2:L:24:ALA:CB	2:L:71:VAL:HA	2.03	0.87
1:A:110:LYS:HB3	1:A:192:SER:CB	2.04	0.87
1:A:564:THR:HG22	1:A:573:LYS:HB3	1.56	0.87
1:B:320:TRP:CD1	1:B:340:SER:HB2	2.09	0.87
1:B:564:THR:HG22	1:B:573:LYS:HB3	1.56	0.87
1:C:134:LEU:HD22	1:C:143:PHE:CD1	2.08	0.87
1:D:76:TRP:HD1	1:D:415:VAL:HB	1.32	0.87
1:D:338:LEU:CD1	1:D:393:ALA:HB3	1.98	0.87
2:K:24:ALA:CB	2:K:71:VAL:HA	2.03	0.87
2:K:63:PHE:C	2:L:96:SER:CB	2.41	0.87
1:A:115:VAL:O	1:A:115:VAL:HG12	1.75	0.87
1:A:352:VAL:HG13	1:A:362:MET:HG2	1.56	0.87
1:A:355:ARG:CG	1:A:361:PRO:HD2	2.03	0.87
1:B:564:THR:CG2	1:B:573:LYS:HB3	2.05	0.87
1:D:270:LEU:HD13	1:D:271:ASN:O	1.74	0.87
1:E:36:PHE:CZ	1:E:422:SER:HB3	2.09	0.87
2:G:8:THR:HG23	2:L:128:GLU:HG2	1.57	0.87
2:H:23:MET:C	2:H:71:VAL:HA	1.93	0.87
2:J:128:GLU:HG2	2:K:8:THR:HG23	1.57	0.87
2:K:70:PHE:H	2:L:99:ARG:NE	1.38	0.87
1:A:540:ASN:O	1:A:541:GLU:CB	2.21	0.87
1:A:564:THR:CG2	1:A:573:LYS:HB3	2.05	0.87
1:D:541:GLU:H	1:D:568:ILE:CD1	1.87	0.87
2:I:24:ALA:CA	2:I:71:VAL:CA	2.46	0.87
2:J:18:LEU:H	2:J:74:MET:CE	1.79	0.87
2:J:24:ALA:CB	2:J:71:VAL:HA	2.03	0.87
2:J:70:PHE:N	2:K:99:ARG:NE	2.05	0.87
2:K:70:PHE:CB	2:L:99:ARG:CD	2.48	0.87
1:A:320:TRP:NE1	1:A:344:VAL:HG22	1.90	0.87
1:A:327:PHE:CZ	1:A:348:VAL:HG13	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:LYS:HG3	1:C:545:PHE:HD2	1.37	0.87
1:C:564:THR:HG22	1:C:573:LYS:HB3	1.57	0.87
1:E:115:VAL:O	1:E:115:VAL:HG12	1.75	0.87
1:E:452:LEU:HD12	1:E:453:ASN:N	1.89	0.87
1:F:40:GLY:H	1:F:326:LYS:HE3	1.40	0.87
1:F:115:VAL:O	1:F:115:VAL:HG12	1.75	0.87
1:F:352:VAL:HG13	1:F:362:MET:HG2	1.56	0.87
2:I:130:VAL:H	2:J:6:GLN:HG2	1.07	0.87
2:J:127:GLU:C	2:K:6:GLN:HA	1.95	0.87
2:K:18:LEU:H	2:K:74:MET:CE	1.79	0.87
1:A:320:TRP:CD1	1:A:340:SER:HB2	2.09	0.87
1:B:437:VAL:CG2	1:B:462:PHE:HZ	1.88	0.87
1:B:452:LEU:HB2	1:B:457:ILE:CG2	2.05	0.87
1:C:93:GLU:HB2	1:C:140:ASP:HB3	0.91	0.87
1:C:564:THR:CG2	1:C:573:LYS:HB3	2.05	0.87
1:D:40:GLY:H	1:D:326:LYS:HE3	1.40	0.87
1:D:464:ARG:O	1:D:465:ASN:HB2	1.71	0.87
1:E:452:LEU:HB2	1:E:457:ILE:CG2	2.05	0.87
1:F:134:LEU:HD22	1:F:143:PHE:CD1	2.08	0.87
1:F:327:PHE:CD2	1:F:351:PHE:CE2	2.57	0.87
1:F:452:LEU:HD12	1:F:453:ASN:N	1.89	0.87
1:F:564:THR:HG22	1:F:573:LYS:HB3	1.56	0.87
2:J:24:ALA:HB1	2:J:71:VAL:HG12	0.89	0.87
2:L:23:MET:O	2:L:74:MET:HB2	1.62	0.87
1:A:32:SER:CB	1:A:426:ILE:CG2	2.51	0.86
1:A:81:ASN:HA	1:A:84:ALA:CB	2.01	0.86
1:A:352:VAL:CG1	1:A:362:MET:CG	2.31	0.86
1:B:45:GLY:CA	1:B:112:TYR:CD1	2.58	0.86
1:B:92:ILE:HG13	1:B:326:LYS:HD3	1.54	0.86
1:D:115:VAL:O	1:D:115:VAL:HG12	1.75	0.86
1:D:452:LEU:HB2	1:D:457:ILE:CG2	2.05	0.86
1:E:93:GLU:OE2	1:E:111:ILE:HB	1.73	0.86
1:E:134:LEU:HD22	1:E:143:PHE:CD1	2.08	0.86
2:I:127:GLU:C	2:J:6:GLN:HA	1.95	0.86
2:L:24:ALA:CA	2:L:71:VAL:CA	2.46	0.86
1:A:452:LEU:HB2	1:A:457:ILE:CG2	2.05	0.86
1:F:33:GLU:O	1:F:333:TYR:CD1	2.29	0.86
1:F:452:LEU:HB2	1:F:457:ILE:CG2	2.05	0.86
1:F:566:TYR:CD2	1:F:572:LYS:C	2.23	0.86
2:H:88:LEU:HD23	2:H:88:LEU:C	1.94	0.86
2:K:68:SER:HB2	2:L:102:GLU:CD	1.96	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:23:MET:HB3	2:L:74:MET:CA	2.00	0.86
1:A:270:LEU:HD13	1:A:271:ASN:O	1.74	0.86
1:B:327:PHE:CZ	1:B:348:VAL:HG13	2.09	0.86
1:C:320:TRP:CE2	1:C:344:VAL:N	2.43	0.86
1:C:338:LEU:O	1:C:412:MET:HE3	1.73	0.86
1:D:33:GLU:O	1:D:333:TYR:CD1	2.29	0.86
1:E:76:TRP:HD1	1:E:415:VAL:HB	1.31	0.86
1:F:81:ASN:HA	1:F:84:ALA:CB	2.01	0.86
1:F:270:LEU:HD13	1:F:271:ASN:O	1.74	0.86
1:A:34:LYS:CG	1:A:422:SER:CB	2.48	0.86
1:B:47:PRO:HB3	1:B:93:GLU:OE1	1.56	0.86
1:C:352:VAL:HG13	1:C:362:MET:HG2	1.56	0.86
1:D:320:TRP:CE2	1:D:344:VAL:N	2.43	0.86
1:E:33:GLU:O	1:E:333:TYR:CD1	2.29	0.86
1:E:437:VAL:CG2	1:E:462:PHE:HZ	1.88	0.86
1:E:527:ASP:CG	2:L:136:ASP:OD2	2.14	0.86
1:F:320:TRP:CD1	1:F:340:SER:HB2	2.09	0.86
1:F:564:THR:CG2	1:F:573:LYS:HB3	2.05	0.86
2:G:88:LEU:HD23	2:G:88:LEU:C	1.94	0.86
2:I:23:MET:C	2:I:71:VAL:HA	1.93	0.86
2:J:68:SER:HB2	2:K:102:GLU:CD	1.96	0.86
1:A:537:LYS:HG3	1:A:545:PHE:HE2	1.33	0.86
1:A:541:GLU:H	1:A:568:ILE:CD1	1.87	0.86
1:B:270:LEU:HD12	1:B:271:ASN:O	1.74	0.86
1:B:352:VAL:HG13	1:B:362:MET:HG2	1.56	0.86
1:C:535:ARG:HH22	2:J:135:GLU:CG	1.86	0.86
1:D:270:LEU:N	1:D:277:PRO:HD2	1.91	0.86
1:D:327:PHE:CZ	1:D:348:VAL:HG13	2.09	0.86
1:D:452:LEU:HD12	1:D:453:ASN:N	1.89	0.86
2:H:24:ALA:HB1	2:H:71:VAL:HG12	0.89	0.86
2:K:79:LYS:HD3	2:K:115:LYS:HA	1.57	0.86
1:A:33:GLU:O	1:A:333:TYR:CD1	2.29	0.86
1:B:112:TYR:H	1:B:141:ASP:HB2	1.03	0.86
1:B:540:ASN:O	1:B:541:GLU:CB	2.21	0.86
1:E:320:TRP:CE2	1:E:344:VAL:N	2.43	0.86
1:F:327:PHE:HD2	1:F:351:PHE:CD2	1.69	0.86
1:A:537:LYS:HG3	1:A:545:PHE:HD2	1.37	0.86
1:B:110:LYS:HB3	1:B:192:SER:CB	2.04	0.86
1:C:320:TRP:CD1	1:C:340:SER:HB2	2.09	0.86
1:E:535:ARG:HH22	2:L:135:GLU:CG	1.88	0.86
2:H:23:MET:CB	2:H:74:MET:CA	2.28	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:130:VAL:H	2:L:6:GLN:HG2	1.07	0.86
1:A:320:TRP:CE2	1:A:344:VAL:N	2.43	0.86
1:B:119:ILE:HG22	1:B:181:LEU:HD11	0.86	0.86
1:B:327:PHE:HD2	1:B:351:PHE:CD2	1.69	0.86
1:C:45:GLY:CA	1:C:112:TYR:CD1	2.58	0.86
1:D:437:VAL:CG2	1:D:462:PHE:HZ	1.88	0.86
1:E:327:PHE:CZ	1:E:348:VAL:HG13	2.09	0.86
1:E:540:ASN:O	1:E:541:GLU:CB	2.21	0.86
1:F:32:SER:CB	1:F:426:ILE:CB	2.54	0.86
2:H:79:LYS:HD3	2:H:115:LYS:HA	1.57	0.86
2:I:18:LEU:H	2:I:74:MET:CE	1.79	0.86
2:I:24:ALA:HB1	2:I:71:VAL:HG12	0.89	0.86
1:A:270:LEU:HD12	1:A:271:ASN:O	1.74	0.86
1:A:408:VAL:CA	1:A:409:PRO:HD3	2.06	0.86
1:C:119:ILE:HG22	1:C:181:LEU:HD11	0.86	0.86
1:C:327:PHE:CZ	1:C:348:VAL:HG13	2.09	0.86
1:F:408:VAL:CA	1:F:409:PRO:HD3	2.06	0.86
2:H:70:PHE:CB	2:I:99:ARG:CD	2.48	0.86
1:A:45:GLY:CA	1:A:112:TYR:CD1	2.58	0.86
1:B:115:VAL:O	1:B:115:VAL:HG12	1.75	0.86
1:C:92:ILE:HG13	1:C:326:LYS:HD3	1.54	0.86
1:C:112:TYR:H	1:C:141:ASP:HB2	1.03	0.86
1:D:112:TYR:H	1:D:141:ASP:HB2	1.03	0.86
1:E:112:TYR:H	1:E:141:ASP:HB2	1.03	0.86
1:E:327:PHE:HD2	1:E:351:PHE:CD2	1.69	0.86
1:F:437:VAL:CG2	1:F:462:PHE:HZ	1.88	0.86
1:F:535:ARG:NH2	2:G:135:GLU:HG3	1.90	0.86
2:G:128:GLU:HG2	2:H:8:THR:HG23	1.57	0.86
2:H:23:MET:O	2:H:74:MET:HB2	1.62	0.86
2:K:128:GLU:CA	2:L:8:THR:CG2	2.54	0.86
2:L:79:LYS:HD3	2:L:115:LYS:HA	1.57	0.86
1:A:119:ILE:HG22	1:A:181:LEU:HD11	0.86	0.85
1:B:45:GLY:CA	1:B:112:TYR:HD1	1.89	0.85
1:C:45:GLY:CA	1:C:112:TYR:HD1	1.89	0.85
1:C:452:LEU:HB2	1:C:457:ILE:CG2	2.05	0.85
1:C:535:ARG:NH2	2:J:135:GLU:HG3	1.90	0.85
1:D:564:THR:CG2	1:D:573:LYS:HB3	2.05	0.85
1:E:564:THR:CG2	1:E:573:LYS:HB3	2.05	0.85
2:K:127:GLU:C	2:L:6:GLN:HA	1.95	0.85
1:B:320:TRP:CE2	1:B:344:VAL:N	2.43	0.85
1:C:270:LEU:HD12	1:C:271:ASN:O	1.73	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:47:PRO:HB3	1:D:93:GLU:OE1	1.56	0.85
1:F:39:ILE:CB	1:F:326:LYS:HE2	2.06	0.85
1:F:45:GLY:CA	1:F:112:TYR:CD1	2.58	0.85
2:G:102:GLU:CD	2:L:68:SER:HB2	1.96	0.85
2:I:79:LYS:HD3	2:I:115:LYS:HA	1.57	0.85
2:I:128:GLU:CA	2:J:8:THR:CG2	2.54	0.85
2:J:23:MET:CB	2:J:74:MET:CA	2.28	0.85
1:A:39:ILE:CB	1:A:326:LYS:HE2	2.06	0.85
1:C:437:VAL:CG2	1:C:462:PHE:HZ	1.88	0.85
1:D:119:ILE:HG22	1:D:181:LEU:HD11	0.86	0.85
1:E:45:GLY:CA	1:E:112:TYR:CD1	2.58	0.85
1:F:394:ASN:HB2	1:F:458:ILE:O	1.76	0.85
2:G:6:GLN:HA	2:L:127:GLU:C	1.95	0.85
2:G:70:PHE:CB	2:H:99:ARG:CD	2.48	0.85
2:I:128:GLU:HG2	2:J:8:THR:HG23	1.57	0.85
2:J:79:LYS:HD3	2:J:115:LYS:HA	1.57	0.85
2:L:18:LEU:H	2:L:74:MET:CE	1.79	0.85
1:B:33:GLU:O	1:B:333:TYR:CD1	2.29	0.85
1:B:93:GLU:CG	1:B:140:ASP:HB3	2.06	0.85
1:B:541:GLU:H	1:B:568:ILE:CD1	1.87	0.85
1:D:45:GLY:CA	1:D:112:TYR:CD1	2.58	0.85
1:D:394:ASN:HB2	1:D:458:ILE:O	1.76	0.85
1:F:539:ASP:O	1:F:540:ASN:HB2	1.75	0.85
2:H:70:PHE:N	2:I:99:ARG:NE	2.05	0.85
1:A:93:GLU:CG	1:A:140:ASP:HB3	2.06	0.85
1:A:327:PHE:CD2	1:A:351:PHE:CE2	2.57	0.85
1:A:437:VAL:CG2	1:A:462:PHE:HZ	1.88	0.85
1:A:539:ASP:O	1:A:540:ASN:HB2	1.75	0.85
1:F:320:TRP:CE2	1:F:344:VAL:N	2.43	0.85
2:H:128:GLU:CA	2:I:8:THR:CG2	2.54	0.85
1:A:32:SER:CB	1:A:426:ILE:CB	2.54	0.85
1:A:45:GLY:CA	1:A:112:TYR:HD1	1.90	0.85
1:B:270:LEU:N	1:B:277:PRO:HD2	1.91	0.85
1:B:537:LYS:CG	1:B:545:PHE:HE2	1.84	0.85
1:C:33:GLU:O	1:C:333:TYR:CD1	2.29	0.85
1:F:119:ILE:HG22	1:F:181:LEU:HD11	0.86	0.85
2:H:23:MET:HB3	2:H:74:MET:CA	2.00	0.85
2:J:24:ALA:N	2:J:71:VAL:HA	1.92	0.85
1:A:40:GLY:H	1:A:326:LYS:HE3	1.40	0.85
1:B:32:SER:CB	1:B:426:ILE:CB	2.54	0.85
1:C:32:SER:CB	1:C:426:ILE:CB	2.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:270:LEU:HD13	1:C:271:ASN:O	1.74	0.85
1:E:119:ILE:HG22	1:E:181:LEU:HD11	0.86	0.85
1:E:394:ASN:HB2	1:E:458:ILE:O	1.76	0.85
1:E:539:ASP:O	1:E:540:ASN:HB2	1.75	0.85
2:G:8:THR:CG2	2:L:128:GLU:CA	2.54	0.85
2:H:127:GLU:C	2:I:6:GLN:HA	1.95	0.85
1:A:76:TRP:C	1:A:415:VAL:CG2	2.42	0.85
1:C:110:LYS:HB3	1:C:192:SER:CB	2.04	0.85
1:E:270:LEU:N	1:E:277:PRO:HD2	1.91	0.85
1:E:271:ASN:OD1	1:E:272:ALA:N	2.10	0.85
1:F:154:PHE:CE1	1:F:199:ALA:CB	2.60	0.85
2:H:18:LEU:H	2:H:74:MET:CE	1.79	0.85
2:H:68:SER:HB2	2:I:102:GLU:CD	1.96	0.85
2:J:130:VAL:CA	2:K:6:GLN:CG	2.50	0.85
1:A:270:LEU:N	1:A:277:PRO:HD2	1.91	0.85
1:C:40:GLY:H	1:C:326:LYS:HE3	1.40	0.85
1:C:270:LEU:N	1:C:277:PRO:HD2	1.91	0.85
1:D:76:TRP:C	1:D:415:VAL:CG2	2.42	0.85
1:D:338:LEU:O	1:D:412:MET:HE2	1.74	0.85
2:J:130:VAL:H	2:K:6:GLN:HG2	1.07	0.85
2:K:128:GLU:HG2	2:L:8:THR:HG23	1.57	0.85
1:B:335:ILE:CG1	1:B:362:MET:HE1	1.99	0.85
1:D:45:GLY:CA	1:D:112:TYR:HD1	1.90	0.85
1:D:112:TYR:CA	1:D:141:ASP:HB2	2.06	0.85
2:J:128:GLU:CA	2:K:8:THR:CG2	2.54	0.85
2:K:25:HIS:CB	2:L:96:SER:O	2.25	0.85
1:C:92:ILE:CD1	1:C:326:LYS:HZ2	1.84	0.84
1:C:93:GLU:CG	1:C:140:ASP:HB3	2.06	0.84
1:E:40:GLY:H	1:E:326:LYS:HE3	1.40	0.84
1:F:270:LEU:N	1:F:277:PRO:HD2	1.91	0.84
2:G:18:LEU:H	2:G:74:MET:CE	1.79	0.84
2:G:127:GLU:C	2:H:6:GLN:HA	1.95	0.84
1:B:270:LEU:HD13	1:B:271:ASN:O	1.74	0.84
1:B:320:TRP:NE1	1:B:344:VAL:HG22	1.90	0.84
1:D:32:SER:CB	1:D:426:ILE:CB	2.54	0.84
2:G:128:GLU:CA	2:H:8:THR:CG2	2.54	0.84
1:B:539:ASP:O	1:B:540:ASN:HB2	1.75	0.84
2:G:8:THR:CG2	2:L:127:GLU:O	2.17	0.84
2:G:68:SER:HB2	2:H:102:GLU:CD	1.96	0.84
2:G:79:LYS:HD3	2:G:115:LYS:HA	1.57	0.84
2:G:96:SER:O	2:L:25:HIS:CB	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:68:SER:HB2	2:J:102:GLU:CD	1.96	0.84
2:J:70:PHE:CB	2:K:99:ARG:CD	2.48	0.84
2:K:24:ALA:N	2:K:71:VAL:HA	1.92	0.84
1:B:327:PHE:CD2	1:B:351:PHE:CE2	2.57	0.84
1:C:115:VAL:O	1:C:115:VAL:HG12	1.75	0.84
1:C:320:TRP:NE1	1:C:344:VAL:HG22	1.90	0.84
1:D:338:LEU:O	1:D:412:MET:HE3	1.77	0.84
1:E:32:SER:CB	1:E:426:ILE:CB	2.54	0.84
1:E:39:ILE:CB	1:E:326:LYS:HE2	2.06	0.84
2:G:98:GLY:HA3	2:L:71:VAL:CG1	2.08	0.84
1:B:39:ILE:CB	1:B:326:LYS:HE2	2.06	0.84
1:B:76:TRP:C	1:B:415:VAL:CG2	2.42	0.84
1:B:355:ARG:HG3	1:B:361:PRO:CD	2.08	0.84
1:C:113:GLY:HA3	1:C:143:PHE:CE1	2.13	0.84
1:C:327:PHE:CD2	1:C:351:PHE:CE2	2.57	0.84
1:D:40:GLY:N	1:D:326:LYS:HE3	1.93	0.84
1:D:93:GLU:CG	1:D:140:ASP:HB3	2.06	0.84
1:E:93:GLU:CG	1:E:140:ASP:HB3	2.06	0.84
2:H:24:ALA:N	2:H:71:VAL:HA	1.92	0.84
1:B:113:GLY:HA3	1:B:143:PHE:CE1	2.13	0.84
1:C:539:ASP:O	1:C:540:ASN:HB2	1.75	0.84
1:E:154:PHE:CE1	1:E:199:ALA:CB	2.60	0.84
1:E:518:ILE:CD1	1:E:520:THR:HB	2.07	0.84
1:F:45:GLY:CA	1:F:112:TYR:HD1	1.90	0.84
1:F:93:GLU:CG	1:F:140:ASP:HB3	2.06	0.84
1:F:518:ILE:CD1	1:F:520:THR:HB	2.07	0.84
1:A:154:PHE:CE1	1:A:199:ALA:CB	2.60	0.84
1:A:355:ARG:HG3	1:A:361:PRO:CD	2.08	0.84
1:C:40:GLY:N	1:C:326:LYS:HE3	1.93	0.84
1:D:539:ASP:O	1:D:540:ASN:HB2	1.75	0.84
1:F:55:ASN:HD22	1:F:58:GLN:HG2	1.43	0.84
2:G:24:ALA:HB2	2:G:71:VAL:O	1.78	0.84
2:H:24:ALA:HB2	2:H:71:VAL:O	1.78	0.84
2:K:71:VAL:CG1	2:L:98:GLY:HA3	2.08	0.84
1:B:40:GLY:N	1:B:326:LYS:HE3	1.93	0.84
2:G:24:ALA:N	2:G:71:VAL:HA	1.92	0.84
2:G:70:PHE:H	2:H:99:ARG:NE	1.37	0.84
2:J:23:MET:O	2:J:71:VAL:C	2.16	0.84
1:A:394:ASN:HB2	1:A:458:ILE:O	1.76	0.84
1:B:518:ILE:CD1	1:B:520:THR:HB	2.07	0.84
1:C:355:ARG:HG3	1:C:361:PRO:CD	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:55:ASN:HD22	1:E:58:GLN:HG2	1.42	0.84
1:E:112:TYR:CA	1:E:141:ASP:HB2	2.06	0.84
2:H:128:GLU:HG2	2:I:8:THR:HG23	1.57	0.84
1:B:271:ASN:OD1	1:B:272:ALA:N	2.10	0.84
1:C:140:ASP:O	1:C:141:ASP:HB2	1.77	0.84
1:D:518:ILE:CD1	1:D:520:THR:HB	2.07	0.84
1:F:113:GLY:HA3	1:F:143:PHE:CE1	2.13	0.84
1:A:55:ASN:HD22	1:A:58:GLN:HG2	1.42	0.83
1:A:113:GLY:HA3	1:A:143:PHE:CE1	2.13	0.83
1:A:166:THR:HG22	1:A:172:ASP:HB2	1.60	0.83
1:E:45:GLY:CA	1:E:112:TYR:HD1	1.89	0.83
1:E:110:LYS:HE3	1:E:113:GLY:HA3	0.84	0.83
1:F:499:PHE:CE2	1:F:532:TYR:OH	2.13	0.83
2:G:71:VAL:CG1	2:H:98:GLY:HA3	2.08	0.83
2:I:25:HIS:CB	2:J:96:SER:O	2.25	0.83
2:I:130:VAL:CA	2:J:6:GLN:CG	2.50	0.83
1:C:76:TRP:C	1:C:415:VAL:CG2	2.42	0.83
1:D:113:GLY:HA3	1:D:143:PHE:CE1	2.13	0.83
1:E:76:TRP:C	1:E:415:VAL:CG2	2.42	0.83
1:F:112:TYR:CA	1:F:141:ASP:HB2	2.06	0.83
2:L:24:ALA:N	2:L:71:VAL:HA	1.92	0.83
1:C:93:GLU:CD	1:C:111:ILE:HB	1.99	0.83
1:D:535:ARG:HH22	2:K:135:GLU:CG	1.90	0.83
1:E:123:LEU:HB2	1:E:128:LEU:CD1	2.08	0.83
2:H:25:HIS:CB	2:I:96:SER:O	2.25	0.83
2:I:70:PHE:CB	2:J:99:ARG:CD	2.48	0.83
1:A:40:GLY:N	1:A:326:LYS:HE3	1.93	0.83
1:A:271:ASN:OD1	1:A:272:ALA:N	2.10	0.83
1:B:93:GLU:CD	1:B:111:ILE:HB	1.99	0.83
1:C:39:ILE:CB	1:C:326:LYS:HE2	2.06	0.83
1:C:320:TRP:HE1	1:C:344:VAL:H	1.26	0.83
1:D:39:ILE:CB	1:D:326:LYS:HE2	2.06	0.83
1:E:113:GLY:HA3	1:E:143:PHE:CE1	2.13	0.83
2:I:24:ALA:N	2:I:71:VAL:HA	1.92	0.83
2:J:24:ALA:CB	2:J:71:VAL:HG13	1.91	0.83
1:A:93:GLU:CD	1:A:111:ILE:HB	1.99	0.83
1:A:338:LEU:HD11	1:A:393:ALA:HB1	1.61	0.83
1:B:320:TRP:HE1	1:B:344:VAL:H	1.26	0.83
1:D:110:LYS:HB3	1:D:192:SER:CB	2.04	0.83
2:G:6:GLN:CB	2:L:129:GLU:C	2.28	0.83
2:I:23:MET:O	2:I:71:VAL:C	2.16	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:THR:HG22	1:B:172:ASP:HB2	1.60	0.83
1:D:123:LEU:HB2	1:D:128:LEU:CD1	2.08	0.83
1:E:355:ARG:HG3	1:E:361:PRO:CD	2.08	0.83
1:E:539:ASP:O	1:E:540:ASN:CB	2.27	0.83
2:K:129:GLU:C	2:L:6:GLN:HB2	1.95	0.83
2:L:76:ASP:HA	2:L:79:LYS:HD2	1.61	0.83
1:A:34:LYS:HD2	1:A:422:SER:HB2	1.18	0.83
1:B:134:LEU:HD22	1:B:143:PHE:CZ	2.14	0.83
1:B:338:LEU:HD11	1:B:393:ALA:HB1	1.61	0.83
1:C:394:ASN:HB2	1:C:458:ILE:O	1.76	0.83
1:C:518:ILE:CD1	1:C:520:THR:HB	2.07	0.83
1:D:93:GLU:CD	1:D:111:ILE:HB	1.99	0.83
1:D:140:ASP:O	1:D:141:ASP:HB2	1.77	0.83
1:D:320:TRP:NE1	1:D:344:VAL:HG22	1.90	0.83
1:F:40:GLY:N	1:F:326:LYS:HE3	1.93	0.83
2:G:25:HIS:N	2:G:71:VAL:HG13	1.93	0.83
2:H:25:HIS:N	2:H:71:VAL:HG13	1.93	0.83
2:I:24:ALA:HB2	2:I:71:VAL:O	1.78	0.83
2:J:71:VAL:CG1	2:K:98:GLY:HA3	2.08	0.83
2:K:23:MET:O	2:K:71:VAL:C	2.16	0.83
1:A:539:ASP:O	1:A:540:ASN:CB	2.27	0.83
1:C:134:LEU:HD22	1:C:143:PHE:CZ	2.14	0.83
1:F:123:LEU:HB2	1:F:128:LEU:CD1	2.08	0.83
2:G:130:VAL:CA	2:H:6:GLN:CG	2.50	0.83
2:L:25:HIS:N	2:L:71:VAL:HG13	1.93	0.83
1:A:518:ILE:CD1	1:A:520:THR:HB	2.07	0.83
1:D:338:LEU:CB	1:D:412:MET:HE3	2.09	0.83
1:D:535:ARG:NH2	2:K:135:GLU:OE1	2.12	0.83
1:E:40:GLY:N	1:E:326:LYS:HE3	1.93	0.83
2:G:23:MET:O	2:G:71:VAL:C	2.16	0.83
2:G:25:HIS:CB	2:H:96:SER:O	2.25	0.83
2:G:130:VAL:HA	2:H:6:GLN:HB3	1.61	0.83
2:L:24:ALA:HB2	2:L:71:VAL:O	1.78	0.83
1:C:320:TRP:HE1	1:C:344:VAL:HG23	1.12	0.83
1:D:154:PHE:CE1	1:D:199:ALA:CB	2.60	0.83
1:D:355:ARG:HG3	1:D:361:PRO:CD	2.08	0.83
1:F:92:ILE:CG1	1:F:326:LYS:HD3	2.09	0.83
1:F:537:LYS:HG3	1:F:545:PHE:HD2	1.37	0.83
2:H:112:ASP:HB3	2:H:115:LYS:HD3	1.61	0.83
1:B:123:LEU:HB2	1:B:128:LEU:CD1	2.08	0.82
1:B:394:ASN:HB2	1:B:458:ILE:O	1.76	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:539:ASP:O	1:B:540:ASN:CB	2.27	0.82
1:C:119:ILE:HG21	1:C:181:LEU:HD21	1.61	0.82
1:C:123:LEU:HB2	1:C:128:LEU:CD1	2.08	0.82
1:D:43:GLU:OE2	1:D:67:GLU:CD	2.16	0.82
1:D:320:TRP:HE1	1:D:344:VAL:HG23	1.12	0.82
1:F:76:TRP:C	1:F:415:VAL:CG2	2.42	0.82
2:G:6:GLN:HB3	2:L:130:VAL:HA	1.61	0.82
2:G:98:GLY:CA	2:L:71:VAL:CG2	2.57	0.82
2:H:23:MET:O	2:H:71:VAL:C	2.16	0.82
2:H:71:VAL:CG1	2:I:98:GLY:HA3	2.08	0.82
2:I:112:ASP:HB3	2:I:115:LYS:HD3	1.61	0.82
2:J:130:VAL:HG22	2:K:6:GLN:CG	2.09	0.82
1:A:92:ILE:CG1	1:A:326:LYS:HD3	2.09	0.82
1:B:55:ASN:HD22	1:B:58:GLN:HG2	1.42	0.82
1:C:92:ILE:CG1	1:C:326:LYS:HD3	2.09	0.82
1:D:327:PHE:CD2	1:D:351:PHE:CE2	2.57	0.82
1:E:93:GLU:CD	1:E:111:ILE:HB	1.99	0.82
1:E:264:ILE:HG12	1:E:266:SER:N	1.94	0.82
1:E:528:PHE:CE1	2:L:107:TYR:CB	2.61	0.82
1:F:93:GLU:CD	1:F:111:ILE:HB	1.99	0.82
2:K:25:HIS:N	2:K:71:VAL:HG13	1.93	0.82
1:A:134:LEU:HD22	1:A:143:PHE:CZ	2.14	0.82
1:C:271:ASN:OD1	1:C:272:ALA:N	2.10	0.82
1:D:166:THR:HG22	1:D:172:ASP:HB2	1.60	0.82
1:D:324:LEU:HD11	1:D:351:PHE:HZ	1.43	0.82
1:D:408:VAL:N	1:D:409:PRO:HD3	1.94	0.82
1:D:537:LYS:HG3	1:D:545:PHE:HD2	1.37	0.82
1:E:92:ILE:CG1	1:E:326:LYS:HD3	2.09	0.82
1:F:166:THR:HG22	1:F:172:ASP:HB2	1.60	0.82
1:F:355:ARG:HG3	1:F:361:PRO:CD	2.08	0.82
1:A:324:LEU:HD11	1:A:351:PHE:HZ	1.43	0.82
1:F:431:THR:O	1:F:434:PRO:HD2	1.80	0.82
2:G:130:VAL:HG22	2:H:6:GLN:CG	2.09	0.82
2:J:25:HIS:CB	2:K:96:SER:O	2.25	0.82
2:J:129:GLU:C	2:K:6:GLN:HB2	1.95	0.82
1:A:115:VAL:O	1:A:134:LEU:O	1.98	0.82
1:A:408:VAL:N	1:A:409:PRO:HD3	1.94	0.82
1:C:154:PHE:CE1	1:C:199:ALA:CB	2.60	0.82
1:C:408:VAL:N	1:C:409:PRO:HD3	1.94	0.82
1:D:76:TRP:CG	1:D:415:VAL:CG2	2.63	0.82
1:D:539:ASP:O	1:D:540:ASN:CB	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:408:VAL:N	1:F:409:PRO:HD3	1.94	0.82
2:I:71:VAL:CG1	2:J:98:GLY:HA3	2.08	0.82
2:J:112:ASP:HB3	2:J:115:LYS:HD3	1.61	0.82
1:B:119:ILE:HG21	1:B:181:LEU:HD21	1.62	0.82
1:C:431:THR:O	1:C:434:PRO:HD2	1.80	0.82
1:D:320:TRP:HE1	1:D:344:VAL:H	1.27	0.82
1:F:387:PRO:CG	1:F:390:SER:CB	2.42	0.82
2:I:25:HIS:N	2:I:71:VAL:HG13	1.93	0.82
2:K:24:ALA:HB2	2:K:71:VAL:O	1.78	0.82
2:K:76:ASP:HA	2:K:79:LYS:HD2	1.61	0.82
1:A:431:THR:O	1:A:434:PRO:HD2	1.80	0.82
1:B:115:VAL:O	1:B:134:LEU:O	1.98	0.82
1:C:112:TYR:CA	1:C:141:ASP:HB2	2.06	0.82
1:E:76:TRP:CG	1:E:415:VAL:CG2	2.63	0.82
1:F:51:TYR:HE2	1:F:53:LEU:HD23	1.45	0.82
1:F:264:ILE:HG12	1:F:266:SER:N	1.94	0.82
2:G:76:ASP:HA	2:G:79:LYS:HD2	1.61	0.82
2:I:71:VAL:CG2	2:J:98:GLY:CA	2.57	0.82
2:K:71:VAL:HG22	2:L:98:GLY:C	2.00	0.82
1:B:92:ILE:CG1	1:B:326:LYS:HD3	2.09	0.82
1:C:166:THR:HG22	1:C:172:ASP:HB2	1.60	0.82
1:D:55:ASN:HD22	1:D:58:GLN:HG2	1.42	0.82
1:F:539:ASP:O	1:F:540:ASN:CB	2.27	0.82
2:J:25:HIS:N	2:J:71:VAL:HG13	1.93	0.82
2:L:23:MET:O	2:L:71:VAL:C	2.16	0.82
1:C:51:TYR:HE2	1:C:53:LEU:HD23	1.45	0.82
1:C:55:ASN:HD22	1:C:58:GLN:HG2	1.43	0.82
1:C:92:ILE:HD13	1:C:323:LYS:CG	2.10	0.82
1:C:338:LEU:CB	1:C:412:MET:HE3	2.10	0.82
1:D:134:LEU:HD22	1:D:143:PHE:CZ	2.14	0.82
1:D:264:ILE:HG12	1:D:266:SER:N	1.94	0.82
1:E:115:VAL:O	1:E:134:LEU:O	1.98	0.82
1:F:115:VAL:O	1:F:134:LEU:O	1.98	0.82
2:G:8:THR:HG21	2:L:127:GLU:C	1.82	0.82
2:I:130:VAL:HG22	2:J:6:GLN:CG	2.09	0.82
1:A:81:ASN:CA	1:A:84:ALA:HB3	2.05	0.82
1:D:320:TRP:CD1	1:D:344:VAL:HG22	2.15	0.82
1:F:184:LYS:C	1:F:186:GLY:HA2	2.00	0.82
1:F:271:ASN:OD1	1:F:272:ALA:N	2.10	0.82
2:K:71:VAL:CG2	2:L:98:GLY:CA	2.57	0.82
1:B:92:ILE:HD13	1:B:323:LYS:CG	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:TRP:CG	1:C:415:VAL:CG2	2.63	0.81
1:D:92:ILE:CG1	1:D:326:LYS:HD3	2.09	0.81
1:E:166:THR:HG22	1:E:172:ASP:HB2	1.60	0.81
2:G:6:GLN:HB2	2:L:129:GLU:C	1.95	0.81
2:K:130:VAL:HG22	2:L:6:GLN:CG	2.09	0.81
1:A:320:TRP:HE1	1:A:344:VAL:H	1.26	0.81
1:B:150:ILE:CD1	1:B:154:PHE:HE2	1.81	0.81
1:B:431:THR:O	1:B:434:PRO:HD2	1.80	0.81
1:C:324:LEU:HD11	1:C:351:PHE:HZ	1.43	0.81
1:C:408:VAL:CA	1:C:409:PRO:HD3	2.06	0.81
1:D:76:TRP:CD1	1:D:415:VAL:CG2	2.64	0.81
1:D:119:ILE:HG21	1:D:181:LEU:HD21	1.62	0.81
1:D:184:LYS:C	1:D:186:GLY:HA2	2.00	0.81
1:F:110:LYS:HE3	1:F:113:GLY:HA3	0.84	0.81
2:G:95:GLN:C	2:L:27:LYS:HD3	2.01	0.81
2:H:70:PHE:H	2:I:99:ARG:NE	1.38	0.81
2:H:130:VAL:HA	2:I:6:GLN:HB3	1.61	0.81
2:H:130:VAL:HG22	2:I:6:GLN:CG	2.09	0.81
2:I:24:ALA:HB2	2:I:71:VAL:CA	2.11	0.81
2:I:25:HIS:HB3	2:J:96:SER:O	1.80	0.81
2:J:24:ALA:HB2	2:J:71:VAL:O	1.78	0.81
2:K:127:GLU:O	2:L:8:THR:CG2	2.17	0.81
1:A:47:PRO:HB2	1:A:93:GLU:OE1	1.79	0.81
1:A:123:LEU:HB2	1:A:128:LEU:CD1	2.08	0.81
1:A:428:GLU:N	1:A:469:THR:CG2	2.43	0.81
1:A:550:VAL:CB	1:A:556:GLY:HA2	2.11	0.81
1:B:47:PRO:HB2	1:B:93:GLU:OE1	1.79	0.81
1:B:184:LYS:C	1:B:186:GLY:HA2	2.00	0.81
1:B:528:PHE:CZ	2:I:107:TYR:HB3	2.14	0.81
1:C:338:LEU:HD11	1:C:393:ALA:HB1	1.61	0.81
1:C:537:LYS:CG	1:C:545:PHE:HE2	1.84	0.81
1:D:115:VAL:O	1:D:134:LEU:O	1.98	0.81
1:D:428:GLU:N	1:D:469:THR:CG2	2.43	0.81
1:E:110:LYS:HB3	1:E:192:SER:CB	2.04	0.81
1:E:324:LEU:HD11	1:E:351:PHE:HZ	1.43	0.81
1:F:140:ASP:O	1:F:141:ASP:HB2	1.77	0.81
2:G:96:SER:HA	2:L:27:LYS:N	1.96	0.81
2:G:98:GLY:C	2:L:71:VAL:HG22	2.00	0.81
2:H:25:HIS:HB3	2:I:96:SER:O	1.80	0.81
2:K:75:MET:O	2:K:79:LYS:HG3	1.80	0.81
1:A:184:LYS:C	1:A:186:GLY:HA2	2.00	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:55:ASN:HD22	1:B:58:GLN:CG	1.93	0.81
1:B:324:LEU:HD11	1:B:351:PHE:HZ	1.43	0.81
1:B:428:GLU:N	1:B:469:THR:CG2	2.44	0.81
1:C:47:PRO:HB2	1:C:93:GLU:OE1	1.79	0.81
1:C:115:VAL:O	1:C:134:LEU:O	1.98	0.81
1:D:408:VAL:CA	1:D:409:PRO:HD3	2.06	0.81
1:E:76:TRP:CD1	1:E:415:VAL:CG2	2.64	0.81
1:E:408:VAL:N	1:E:409:PRO:HD3	1.94	0.81
1:E:550:VAL:CB	1:E:556:GLY:HA2	2.11	0.81
1:F:76:TRP:CG	1:F:415:VAL:CG2	2.63	0.81
1:F:245:ALA:O	1:F:264:ILE:HG13	1.81	0.81
2:G:27:LYS:HD3	2:H:95:GLN:C	2.01	0.81
2:H:24:ALA:HB2	2:H:71:VAL:CA	2.11	0.81
2:H:71:VAL:CG2	2:I:98:GLY:CA	2.57	0.81
2:I:71:VAL:HG22	2:J:98:GLY:C	2.00	0.81
2:I:127:GLU:O	2:J:8:THR:CG2	2.17	0.81
2:J:24:ALA:HB2	2:J:71:VAL:CA	2.10	0.81
1:A:76:TRP:CD1	1:A:415:VAL:CG2	2.63	0.81
1:C:387:PRO:CG	1:C:390:SER:CB	2.42	0.81
1:C:428:GLU:N	1:C:469:THR:CG2	2.44	0.81
1:D:40:GLY:N	1:D:326:LYS:CE	2.44	0.81
1:D:431:THR:O	1:D:434:PRO:HD2	1.80	0.81
1:F:76:TRP:CD1	1:F:415:VAL:CG2	2.64	0.81
2:G:6:GLN:CG	2:L:130:VAL:HG22	2.09	0.81
2:I:27:LYS:HD3	2:J:95:GLN:C	2.01	0.81
1:A:76:TRP:CG	1:A:415:VAL:CG2	2.63	0.81
1:A:119:ILE:HG21	1:A:181:LEU:HD21	1.62	0.81
1:A:320:TRP:NE1	1:A:344:VAL:CA	2.43	0.81
1:C:76:TRP:CD1	1:C:415:VAL:CG2	2.63	0.81
1:C:338:LEU:O	1:C:412:MET:HE2	1.77	0.81
1:E:47:PRO:CB	1:E:93:GLU:CD	2.37	0.81
1:E:320:TRP:NE1	1:E:344:VAL:CA	2.43	0.81
2:I:27:LYS:N	2:J:96:SER:HA	1.96	0.81
2:J:25:HIS:HB3	2:K:96:SER:O	1.80	0.81
2:J:76:ASP:HA	2:J:79:LYS:HD2	1.61	0.81
2:L:24:ALA:HB2	2:L:71:VAL:CA	2.11	0.81
1:A:245:ALA:O	1:A:264:ILE:HG13	1.81	0.81
1:B:40:GLY:N	1:B:326:LYS:CE	2.44	0.81
1:B:51:TYR:HE2	1:B:53:LEU:HD23	1.45	0.81
1:B:327:PHE:HE2	1:B:351:PHE:CG	1.98	0.81
1:B:408:VAL:N	1:B:409:PRO:HD3	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:184:LYS:C	1:C:186:GLY:HA2	2.00	0.81
1:C:320:TRP:NE1	1:C:344:VAL:CA	2.43	0.81
1:C:320:TRP:CE2	1:C:344:VAL:CG2	2.64	0.81
1:C:327:PHE:HE2	1:C:351:PHE:CG	1.98	0.81
1:D:320:TRP:CE2	1:D:344:VAL:CG2	2.63	0.81
1:D:491:MET:O	1:D:493:VAL:HG22	1.81	0.81
1:F:92:ILE:HD13	1:F:323:LYS:CG	2.10	0.81
2:H:27:LYS:N	2:I:96:SER:HA	1.96	0.81
2:J:71:VAL:HG22	2:K:98:GLY:C	2.00	0.81
2:J:127:GLU:O	2:K:8:THR:CG2	2.17	0.81
2:K:130:VAL:HA	2:L:6:GLN:HB3	1.61	0.81
1:A:320:TRP:HH2	1:A:347:GLU:HG3	1.46	0.81
1:A:491:MET:O	1:A:493:VAL:HG22	1.81	0.81
1:B:93:GLU:OE1	1:B:140:ASP:HB3	1.80	0.81
1:D:47:PRO:HB2	1:D:93:GLU:OE1	1.79	0.81
1:D:271:ASN:OD1	1:D:272:ALA:N	2.10	0.81
1:D:352:VAL:CG1	1:D:362:MET:CG	2.31	0.81
1:E:431:THR:O	1:E:434:PRO:HD2	1.80	0.81
2:G:24:ALA:HB2	2:G:71:VAL:CA	2.11	0.81
2:H:71:VAL:HG22	2:I:98:GLY:C	2.00	0.81
2:I:24:ALA:CB	2:I:71:VAL:HG13	1.91	0.81
2:J:75:MET:O	2:J:79:LYS:HG3	1.80	0.81
1:A:40:GLY:N	1:A:326:LYS:CE	2.44	0.81
1:A:92:ILE:CD1	1:A:326:LYS:HZ1	1.91	0.81
1:A:140:ASP:O	1:A:141:ASP:HB2	1.77	0.81
1:A:169:VAL:CB	1:A:286:GLU:OE1	2.26	0.81
1:B:114:ASN:H	1:B:117:ASN:ND2	1.79	0.81
1:C:64:ARG:NH2	1:C:188:GLN:O	2.14	0.81
1:C:110:LYS:HE3	1:C:113:GLY:HA3	0.84	0.81
1:E:40:GLY:N	1:E:326:LYS:CE	2.44	0.81
1:E:134:LEU:HD22	1:E:143:PHE:CZ	2.14	0.81
1:E:245:ALA:O	1:E:264:ILE:HG13	1.81	0.81
1:E:387:PRO:CG	1:E:390:SER:CB	2.42	0.81
1:F:134:LEU:HD22	1:F:143:PHE:CZ	2.14	0.81
1:F:320:TRP:HE1	1:F:344:VAL:HG23	1.12	0.81
1:F:491:MET:O	1:F:493:VAL:HG22	1.81	0.81
2:G:130:VAL:N	2:H:6:GLN:CB	2.44	0.81
2:H:127:GLU:C	2:I:8:THR:HG21	1.82	0.81
1:A:183:LEU:CD1	1:A:192:SER:OG	2.29	0.81
1:A:320:TRP:CD1	1:A:344:VAL:HG22	2.15	0.81
1:A:327:PHE:HE2	1:A:351:PHE:CG	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:PHE:HE2	1:A:351:PHE:CB	1.94	0.81
1:A:535:ARG:HH22	2:H:135:GLU:CD	1.85	0.81
1:B:53:LEU:HD21	1:B:63:PHE:HE2	1.46	0.81
1:B:327:PHE:HE2	1:B:351:PHE:CB	1.94	0.81
1:C:93:GLU:OE1	1:C:140:ASP:HB3	1.80	0.81
1:C:535:ARG:NH2	2:J:135:GLU:CD	2.33	0.81
1:D:92:ILE:HD13	1:D:323:LYS:CG	2.10	0.81
1:E:528:PHE:HE1	2:L:107:TYR:CB	1.94	0.81
2:G:27:LYS:N	2:H:96:SER:HA	1.96	0.81
2:G:112:ASP:HB3	2:G:115:LYS:HD3	1.61	0.81
1:B:64:ARG:NH2	1:B:188:GLN:O	2.14	0.80
1:B:76:TRP:CG	1:B:415:VAL:CG2	2.63	0.80
1:B:183:LEU:CD1	1:B:192:SER:OG	2.29	0.80
1:B:550:VAL:CB	1:B:556:GLY:HA2	2.11	0.80
1:D:270:LEU:CD2	1:D:274:GLY:HA2	2.11	0.80
1:D:327:PHE:HE2	1:D:351:PHE:CG	1.98	0.80
1:E:51:TYR:HE2	1:E:53:LEU:HD23	1.45	0.80
1:E:119:ILE:HG21	1:E:181:LEU:HD21	1.62	0.80
1:E:320:TRP:HE1	1:E:344:VAL:H	1.26	0.80
1:F:81:ASN:CA	1:F:84:ALA:HB3	2.05	0.80
2:G:71:VAL:HG22	2:H:98:GLY:C	2.00	0.80
2:K:27:LYS:N	2:L:96:SER:HA	1.96	0.80
2:L:75:MET:O	2:L:79:LYS:HG3	1.80	0.80
1:A:114:ASN:H	1:A:117:ASN:ND2	1.79	0.80
1:A:264:ILE:HG12	1:A:266:SER:N	1.94	0.80
1:B:76:TRP:CD1	1:B:415:VAL:CG2	2.64	0.80
1:B:320:TRP:NE1	1:B:344:VAL:CA	2.43	0.80
1:B:320:TRP:CE2	1:B:344:VAL:CG2	2.63	0.80
1:B:327:PHE:CE1	1:B:348:VAL:HG13	2.16	0.80
1:B:537:LYS:HG3	1:B:545:PHE:HE2	1.33	0.80
1:C:40:GLY:N	1:C:326:LYS:CE	2.44	0.80
1:C:132:LEU:CG	1:C:148:ASP:CA	2.55	0.80
1:E:76:TRP:CG	1:E:415:VAL:HG23	2.16	0.80
1:E:93:GLU:OE1	1:E:140:ASP:HB3	1.80	0.80
1:E:140:ASP:O	1:E:141:ASP:HB2	1.77	0.80
1:F:93:GLU:OE1	1:F:140:ASP:HB3	1.80	0.80
1:F:428:GLU:N	1:F:469:THR:CG2	2.43	0.80
1:A:92:ILE:HD13	1:A:323:LYS:CG	2.10	0.80
1:A:327:PHE:CE1	1:A:348:VAL:HG13	2.16	0.80
1:B:320:TRP:HH2	1:B:347:GLU:HG3	1.46	0.80
1:C:183:LEU:CD1	1:C:192:SER:OG	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:51:TYR:HE2	1:D:53:LEU:HD23	1.45	0.80
1:D:550:VAL:CB	1:D:556:GLY:HA2	2.11	0.80
1:E:320:TRP:CD1	1:E:344:VAL:HG22	2.15	0.80
1:E:428:GLU:N	1:E:469:THR:CG2	2.44	0.80
1:F:183:LEU:CD1	1:F:192:SER:OG	2.29	0.80
1:F:320:TRP:NE1	1:F:344:VAL:CA	2.43	0.80
2:H:27:LYS:HD3	2:I:95:GLN:C	2.01	0.80
2:H:76:ASP:HA	2:H:79:LYS:HD2	1.61	0.80
2:I:76:ASP:HA	2:I:79:LYS:HD2	1.61	0.80
2:K:24:ALA:HB2	2:K:71:VAL:CA	2.10	0.80
1:A:53:LEU:HD21	1:A:63:PHE:HE2	1.46	0.80
1:A:115:VAL:O	1:A:115:VAL:HG13	1.82	0.80
1:B:81:ASN:CA	1:B:84:ALA:HB3	2.05	0.80
1:C:114:ASN:H	1:C:117:ASN:ND2	1.79	0.80
1:C:270:LEU:CD2	1:C:274:GLY:HA2	2.11	0.80
1:D:327:PHE:CE1	1:D:348:VAL:HG13	2.16	0.80
1:E:47:PRO:HB2	1:E:93:GLU:OE1	1.79	0.80
1:E:320:TRP:CE2	1:E:344:VAL:CG2	2.63	0.80
1:F:119:ILE:HG21	1:F:181:LEU:HD21	1.62	0.80
1:F:320:TRP:HH2	1:F:347:GLU:HG3	1.46	0.80
1:F:324:LEU:HD11	1:F:351:PHE:HZ	1.43	0.80
2:K:25:HIS:HB3	2:L:96:SER:O	1.80	0.80
2:K:112:ASP:HB3	2:K:115:LYS:HD3	1.61	0.80
1:A:43:GLU:OE2	1:A:67:GLU:CG	2.30	0.80
1:A:76:TRP:CG	1:A:415:VAL:HG23	2.16	0.80
1:A:537:LYS:CG	1:A:545:PHE:HE2	1.84	0.80
1:B:140:ASP:O	1:B:141:ASP:HB2	1.77	0.80
1:C:264:ILE:HG12	1:C:266:SER:N	1.94	0.80
1:C:327:PHE:CE1	1:C:348:VAL:HG13	2.16	0.80
1:C:528:PHE:HE1	2:J:107:TYR:HB2	1.47	0.80
1:D:183:LEU:CD1	1:D:192:SER:OG	2.29	0.80
1:D:320:TRP:NE1	1:D:344:VAL:CA	2.43	0.80
1:E:183:LEU:CD1	1:E:192:SER:OG	2.29	0.80
1:E:327:PHE:HE2	1:E:351:PHE:CG	1.98	0.80
1:F:114:ASN:H	1:F:117:ASN:ND2	1.79	0.80
1:F:327:PHE:HE2	1:F:351:PHE:CG	1.99	0.80
2:J:70:PHE:H	2:K:99:ARG:NE	1.37	0.80
2:K:23:MET:CB	2:K:74:MET:CA	2.28	0.80
1:A:51:TYR:HE2	1:A:53:LEU:HD23	1.45	0.80
1:A:93:GLU:OE1	1:A:140:ASP:HB3	1.80	0.80
1:A:535:ARG:NH2	2:H:135:GLU:CG	2.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:LEU:HD11	1:D:393:ALA:HB1	1.61	0.80
1:E:327:PHE:CE1	1:E:348:VAL:HG13	2.16	0.80
1:F:115:VAL:O	1:F:115:VAL:HG13	1.82	0.80
2:G:25:HIS:HB3	2:H:96:SER:O	1.80	0.80
2:J:27:LYS:HD3	2:K:95:GLN:C	2.01	0.80
1:C:112:TYR:HA	1:C:141:ASP:CB	2.11	0.80
1:D:64:ARG:NH2	1:D:188:GLN:O	2.14	0.80
1:D:76:TRP:CG	1:D:415:VAL:HG23	2.16	0.80
1:D:245:ALA:O	1:D:264:ILE:HG13	1.81	0.80
1:E:114:ASN:H	1:E:117:ASN:ND2	1.79	0.80
1:E:270:LEU:CD2	1:E:274:GLY:HA2	2.11	0.80
1:F:320:TRP:CD1	1:F:344:VAL:HG22	2.15	0.80
1:F:320:TRP:HE1	1:F:344:VAL:H	1.26	0.80
2:L:112:ASP:HB3	2:L:115:LYS:HD3	1.61	0.80
1:A:121:VAL:HG23	1:A:132:LEU:HD22	1.64	0.80
1:B:110:LYS:HE3	1:B:113:GLY:HA3	0.84	0.80
1:B:245:ALA:O	1:B:264:ILE:HG13	1.81	0.80
1:C:53:LEU:HD21	1:C:63:PHE:HE2	1.46	0.80
1:C:327:PHE:HE2	1:C:351:PHE:CB	1.94	0.80
1:C:491:MET:O	1:C:493:VAL:HG22	1.81	0.80
1:C:550:VAL:CB	1:C:556:GLY:HA2	2.11	0.80
1:E:121:VAL:HG23	1:E:132:LEU:HD22	1.64	0.80
1:E:184:LYS:C	1:E:186:GLY:HA2	2.00	0.80
1:E:320:TRP:CE2	1:E:344:VAL:CA	2.65	0.80
1:F:40:GLY:N	1:F:326:LYS:CE	2.44	0.80
1:F:47:PRO:HB2	1:F:93:GLU:OE1	1.79	0.80
1:F:327:PHE:HE2	1:F:351:PHE:CB	1.94	0.80
2:G:8:THR:CG2	2:L:128:GLU:HG2	2.12	0.80
2:H:130:VAL:N	2:I:6:GLN:CB	2.44	0.80
2:J:130:VAL:HA	2:K:6:GLN:HB3	1.61	0.80
1:A:55:ASN:HD22	1:A:58:GLN:CG	1.93	0.80
1:B:491:MET:O	1:B:493:VAL:HG22	1.81	0.80
1:C:43:GLU:OE2	1:C:67:GLU:CD	2.16	0.80
1:C:55:ASN:HD22	1:C:58:GLN:CG	1.93	0.80
1:D:121:VAL:HG23	1:D:132:LEU:HD22	1.64	0.80
1:D:320:TRP:CE2	1:D:344:VAL:CA	2.65	0.80
1:F:39:ILE:HD13	1:F:327:PHE:CB	1.96	0.80
1:F:43:GLU:OE2	1:F:67:GLU:CG	2.30	0.80
1:F:76:TRP:CG	1:F:415:VAL:HG23	2.16	0.80
1:F:338:LEU:HD11	1:F:393:ALA:HB2	1.63	0.80
1:F:550:VAL:CB	1:F:556:GLY:HA2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:71:VAL:CG2	2:H:98:GLY:CA	2.57	0.80
2:G:128:GLU:HG2	2:H:8:THR:CG2	2.12	0.80
2:I:130:VAL:HA	2:J:6:GLN:HB3	1.61	0.80
2:J:27:LYS:N	2:K:96:SER:HA	1.96	0.80
2:K:27:LYS:HD3	2:L:95:GLN:C	2.01	0.80
1:A:335:ILE:CG1	1:A:362:MET:HE1	2.02	0.80
1:B:320:TRP:CE2	1:B:344:VAL:CA	2.65	0.80
1:E:150:ILE:CD1	1:E:154:PHE:HE2	1.81	0.80
1:E:537:LYS:HG3	1:E:545:PHE:HD2	1.37	0.80
1:F:338:LEU:O	1:F:412:MET:CG	2.30	0.80
2:G:96:SER:O	2:L:25:HIS:HB3	1.80	0.80
1:B:76:TRP:CG	1:B:415:VAL:HG23	2.16	0.79
1:B:121:VAL:HG23	1:B:132:LEU:HD22	1.64	0.79
1:B:264:ILE:HG12	1:B:266:SER:N	1.94	0.79
1:C:320:TRP:CE2	1:C:344:VAL:CA	2.65	0.79
1:E:92:ILE:HD13	1:E:323:LYS:CG	2.10	0.79
1:F:320:TRP:CE2	1:F:344:VAL:CG2	2.64	0.79
1:F:327:PHE:CE1	1:F:348:VAL:HG13	2.16	0.79
2:G:99:ARG:NE	2:L:70:PHE:H	1.37	0.79
1:B:154:PHE:CE1	1:B:199:ALA:CB	2.60	0.79
1:C:245:ALA:O	1:C:264:ILE:HG13	1.81	0.79
1:C:320:TRP:HH2	1:C:347:GLU:HG3	1.46	0.79
1:D:110:LYS:HE3	1:D:113:GLY:HA3	0.84	0.79
1:D:338:LEU:CD1	1:D:393:ALA:HB1	2.12	0.79
1:E:93:GLU:CA	1:E:140:ASP:HA	2.12	0.79
1:E:408:VAL:CA	1:E:409:PRO:HD3	2.06	0.79
1:F:320:TRP:CE2	1:F:344:VAL:CA	2.65	0.79
1:F:537:LYS:HG3	1:F:545:PHE:HE2	1.33	0.79
2:H:75:MET:O	2:H:79:LYS:HG3	1.80	0.79
2:I:75:MET:O	2:I:79:LYS:HG3	1.80	0.79
1:A:64:ARG:NH2	1:A:188:GLN:O	2.14	0.79
1:B:115:VAL:O	1:B:115:VAL:HG13	1.82	0.79
1:C:93:GLU:CA	1:C:140:ASP:HA	2.12	0.79
1:D:115:VAL:O	1:D:115:VAL:HG13	1.82	0.79
1:E:338:LEU:O	1:E:412:MET:CG	2.30	0.79
1:E:491:MET:O	1:E:493:VAL:HG22	1.81	0.79
1:F:64:ARG:NH2	1:F:188:GLN:O	2.14	0.79
2:I:24:ALA:CB	2:I:71:VAL:CA	2.61	0.79
2:I:129:GLU:C	2:J:6:GLN:HB2	1.95	0.79
1:A:93:GLU:CA	1:A:140:ASP:HA	2.12	0.79
1:B:270:LEU:CD2	1:B:274:GLY:HA2	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:TRP:HH2	1:E:347:GLU:HG3	1.46	0.79
1:F:121:VAL:HG23	1:F:132:LEU:HD22	1.64	0.79
2:G:75:MET:O	2:G:79:LYS:HG3	1.80	0.79
2:G:99:ARG:CD	2:L:71:VAL:H	1.96	0.79
2:H:92:LEU:HD13	2:H:104:VAL:HG21	1.64	0.79
2:K:71:VAL:H	2:L:99:ARG:CD	1.96	0.79
1:A:338:LEU:HD11	1:A:393:ALA:HB2	1.63	0.79
1:D:320:TRP:HH2	1:D:347:GLU:HG3	1.46	0.79
1:E:327:PHE:HE2	1:E:351:PHE:CB	1.94	0.79
2:H:24:ALA:CB	2:H:71:VAL:CA	2.61	0.79
2:I:92:LEU:HD13	2:I:104:VAL:HG21	1.64	0.79
2:J:71:VAL:N	2:K:99:ARG:HD2	1.98	0.79
2:K:128:GLU:HG2	2:L:8:THR:CG2	2.12	0.79
1:A:110:LYS:HE3	1:A:113:GLY:HA3	0.84	0.79
1:A:338:LEU:O	1:A:412:MET:CG	2.30	0.79
1:B:43:GLU:OE2	1:B:67:GLU:CG	2.30	0.79
1:B:93:GLU:CA	1:B:140:ASP:HA	2.12	0.79
1:B:352:VAL:CG1	1:B:362:MET:CG	2.31	0.79
1:B:408:VAL:CA	1:B:409:PRO:HD3	2.06	0.79
1:C:115:VAL:O	1:C:115:VAL:HG13	1.82	0.79
1:D:114:ASN:H	1:D:117:ASN:ND2	1.79	0.79
1:D:327:PHE:HE2	1:D:351:PHE:CB	1.94	0.79
1:F:93:GLU:CA	1:F:140:ASP:HA	2.12	0.79
2:K:70:PHE:N	2:L:99:ARG:CD	2.46	0.79
2:L:22:GLU:CB	2:L:70:PHE:CE2	2.50	0.79
2:L:24:ALA:CB	2:L:71:VAL:CA	2.61	0.79
1:A:112:TYR:HA	1:A:141:ASP:CB	2.11	0.79
1:A:320:TRP:CE2	1:A:344:VAL:CA	2.65	0.79
1:B:320:TRP:HE1	1:B:344:VAL:CB	1.96	0.79
1:C:320:TRP:HE1	1:C:344:VAL:CB	1.96	0.79
1:D:93:GLU:OE1	1:D:140:ASP:HB3	1.80	0.79
1:E:39:ILE:HD13	1:E:327:PHE:CB	1.96	0.79
1:E:64:ARG:NH2	1:E:188:GLN:O	2.14	0.79
1:E:320:TRP:HE1	1:E:344:VAL:HG23	1.12	0.79
1:F:270:LEU:CD2	1:F:274:GLY:HA2	2.11	0.79
2:G:24:ALA:CB	2:G:71:VAL:CA	2.61	0.79
2:G:99:ARG:CD	2:L:70:PHE:N	2.46	0.79
2:I:71:VAL:N	2:J:99:ARG:HD2	1.98	0.79
2:J:24:ALA:CB	2:J:71:VAL:CA	2.61	0.79
1:A:320:TRP:HE1	1:A:344:VAL:CB	1.96	0.79
1:B:320:TRP:NE1	1:B:344:VAL:CB	2.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:TRP:CG	1:C:415:VAL:HG23	2.16	0.79
1:D:387:PRO:CG	1:D:390:SER:CB	2.42	0.79
2:H:128:GLU:HG2	2:I:8:THR:CG2	2.12	0.79
2:J:71:VAL:H	2:K:99:ARG:CD	1.96	0.79
2:J:128:GLU:HG2	2:K:8:THR:CG2	2.12	0.79
1:A:320:TRP:CE2	1:A:344:VAL:CG2	2.63	0.79
1:D:93:GLU:CA	1:D:140:ASP:HA	2.12	0.79
1:D:335:ILE:HG12	1:D:362:MET:HE3	1.63	0.79
1:F:47:PRO:CB	1:F:93:GLU:CD	2.37	0.79
1:F:282:VAL:HG13	1:F:287:GLU:CG	1.86	0.79
2:G:71:VAL:H	2:H:99:ARG:CD	1.96	0.79
2:H:24:ALA:CB	2:H:71:VAL:HG13	1.91	0.79
2:H:70:PHE:N	2:I:99:ARG:CD	2.46	0.79
2:J:70:PHE:N	2:K:99:ARG:CD	2.46	0.79
2:K:130:VAL:N	2:L:6:GLN:CB	2.44	0.79
1:A:270:LEU:CD2	1:A:274:GLY:HA2	2.11	0.79
1:F:527:ASP:CB	2:G:136:ASP:OD2	2.30	0.79
2:J:71:VAL:CG2	2:K:98:GLY:CA	2.57	0.79
2:J:71:VAL:H	2:K:99:ARG:HD2	1.48	0.79
2:J:127:GLU:C	2:K:8:THR:HG21	1.82	0.79
1:B:51:TYR:CZ	1:B:62:LEU:HD13	2.18	0.78
1:C:320:TRP:NE1	1:C:344:VAL:CB	2.46	0.78
1:C:539:ASP:O	1:C:540:ASN:CB	2.27	0.78
1:D:53:LEU:HD21	1:D:63:PHE:HE2	1.46	0.78
1:F:169:VAL:CB	1:F:286:GLU:OE1	2.27	0.78
1:F:183:LEU:HD11	1:F:192:SER:HG	1.46	0.78
2:G:63:PHE:HA	2:H:96:SER:CB	2.13	0.78
2:I:71:VAL:H	2:J:99:ARG:HD2	1.48	0.78
2:K:127:GLU:C	2:L:8:THR:HG21	1.82	0.78
1:B:320:TRP:CD1	1:B:344:VAL:HG22	2.15	0.78
1:C:121:VAL:HG23	1:C:132:LEU:HD22	1.64	0.78
1:C:320:TRP:CE2	1:C:344:VAL:HA	2.19	0.78
1:D:112:TYR:HA	1:D:141:ASP:CB	2.11	0.78
2:H:63:PHE:HA	2:I:96:SER:CB	2.13	0.78
2:I:70:PHE:H	2:J:99:ARG:NE	1.38	0.78
2:I:71:VAL:H	2:J:99:ARG:CD	1.96	0.78
2:J:24:ALA:HB2	2:J:71:VAL:C	2.04	0.78
2:K:24:ALA:HB2	2:K:71:VAL:C	2.04	0.78
2:L:23:MET:CB	2:L:74:MET:CA	2.28	0.78
1:A:113:GLY:N	1:A:141:ASP:CB	2.42	0.78
1:A:355:ARG:CB	1:A:361:PRO:HD2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:245:ALA:HB1	1:B:265:VAL:HG22	1.66	0.78
1:D:320:TRP:HE1	1:D:344:VAL:CB	1.96	0.78
1:D:355:ARG:CB	1:D:361:PRO:HD2	2.13	0.78
1:E:43:GLU:OE2	1:E:67:GLU:CG	2.30	0.78
1:E:115:VAL:O	1:E:115:VAL:HG13	1.82	0.78
1:F:123:LEU:CB	1:F:128:LEU:HD11	2.13	0.78
2:H:71:VAL:H	2:I:99:ARG:CD	1.96	0.78
2:K:92:LEU:HD13	2:K:104:VAL:HG21	1.64	0.78
1:A:51:TYR:CZ	1:A:62:LEU:HD13	2.18	0.78
1:B:112:TYR:HA	1:B:141:ASP:CB	2.11	0.78
1:D:338:LEU:O	1:D:412:MET:CG	2.30	0.78
1:E:535:ARG:NH2	2:L:135:GLU:HG3	1.97	0.78
1:F:53:LEU:HD21	1:F:63:PHE:HE2	1.46	0.78
1:F:55:ASN:HD22	1:F:58:GLN:CG	1.93	0.78
1:F:449:LEU:HD23	1:F:452:LEU:HD21	1.66	0.78
2:K:71:VAL:N	2:L:99:ARG:HD2	1.98	0.78
1:A:45:GLY:HA2	1:A:111:ILE:CD1	2.14	0.78
1:A:320:TRP:HE1	1:A:344:VAL:CA	1.97	0.78
1:B:123:LEU:CB	1:B:128:LEU:HD11	2.13	0.78
1:B:320:TRP:HE1	1:B:344:VAL:CA	1.97	0.78
1:C:355:ARG:CB	1:C:361:PRO:HD2	2.14	0.78
1:D:123:LEU:CB	1:D:128:LEU:HD11	2.13	0.78
1:E:245:ALA:HB1	1:E:265:VAL:HG22	1.66	0.78
1:E:338:LEU:HD11	1:E:393:ALA:HB1	1.61	0.78
1:F:355:ARG:CB	1:F:361:PRO:HD2	2.14	0.78
2:K:24:ALA:CB	2:K:71:VAL:CA	2.61	0.78
1:B:338:LEU:O	1:B:412:MET:CG	2.30	0.78
1:B:449:LEU:HD23	1:B:452:LEU:HD21	1.66	0.78
1:C:51:TYR:CZ	1:C:62:LEU:HD13	2.18	0.78
1:C:320:TRP:HE1	1:C:344:VAL:CA	1.97	0.78
1:F:43:GLU:OE2	1:F:67:GLU:CD	2.16	0.78
1:F:170:GLU:OE2	1:F:287:GLU:OE1	2.02	0.78
2:K:63:PHE:HA	2:L:96:SER:CB	2.13	0.78
1:A:39:ILE:HD13	1:A:327:PHE:CB	1.96	0.78
1:A:123:LEU:CB	1:A:128:LEU:HD11	2.13	0.78
1:A:320:TRP:NE1	1:A:344:VAL:CB	2.46	0.78
1:C:338:LEU:CD1	1:C:393:ALA:HB1	2.12	0.78
1:D:524:ILE:CG1	2:K:107:TYR:CZ	2.64	0.78
1:E:338:LEU:HD11	1:E:393:ALA:HB2	1.64	0.78
1:F:320:TRP:HE1	1:F:344:VAL:CB	1.96	0.78
1:F:320:TRP:CE2	1:F:344:VAL:HA	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:99:ARG:HD2	2:L:71:VAL:H	1.48	0.78
2:H:24:ALA:HB2	2:H:71:VAL:C	2.04	0.78
2:I:24:ALA:HB2	2:I:71:VAL:C	2.04	0.78
2:I:128:GLU:HG2	2:J:8:THR:CG2	2.12	0.78
2:K:71:VAL:H	2:L:99:ARG:HD2	1.48	0.78
2:L:92:LEU:HD13	2:L:104:VAL:HG21	1.64	0.78
1:A:170:GLU:OE2	1:A:287:GLU:OE1	2.02	0.78
1:B:43:GLU:OE2	1:B:67:GLU:CD	2.16	0.78
1:D:320:TRP:NE1	1:D:344:VAL:CB	2.46	0.78
1:E:338:LEU:CD1	1:E:393:ALA:HB1	2.12	0.78
1:E:504:LEU:CD2	1:E:529:ILE:HG23	2.14	0.78
1:A:43:GLU:OE2	1:A:67:GLU:CD	2.16	0.78
1:B:320:TRP:CE2	1:B:344:VAL:HA	2.19	0.78
1:B:355:ARG:CB	1:B:361:PRO:HD2	2.14	0.78
1:C:245:ALA:HB1	1:C:265:VAL:HG22	1.66	0.78
1:C:449:LEU:HD23	1:C:452:LEU:HD21	1.66	0.78
1:E:320:TRP:NE1	1:E:344:VAL:CB	2.46	0.78
1:E:355:ARG:CB	1:E:361:PRO:HD2	2.14	0.78
2:H:71:VAL:N	2:I:99:ARG:HD2	1.98	0.78
2:H:128:GLU:HA	2:I:8:THR:HG22	1.66	0.78
1:A:320:TRP:CE2	1:A:344:VAL:HA	2.19	0.78
1:A:408:VAL:HA	1:A:409:PRO:CD	2.14	0.78
1:A:449:LEU:HD23	1:A:452:LEU:HD21	1.66	0.78
1:B:408:VAL:HA	1:B:409:PRO:CD	2.14	0.78
1:C:43:GLU:OE2	1:C:67:GLU:CG	2.30	0.78
1:C:338:LEU:O	1:C:412:MET:CG	2.30	0.78
1:C:504:LEU:CD2	1:C:529:ILE:HG23	2.14	0.78
1:D:169:VAL:CB	1:D:286:GLU:OE1	2.26	0.78
1:E:64:ARG:H	1:E:64:ARG:HD3	1.49	0.78
1:E:123:LEU:CB	1:E:128:LEU:HD11	2.13	0.78
1:E:169:VAL:CB	1:E:286:GLU:OE1	2.26	0.78
1:F:166:THR:CG2	1:F:171:HIS:C	2.53	0.78
2:G:70:PHE:N	2:H:99:ARG:CD	2.46	0.78
2:G:96:SER:CB	2:L:63:PHE:HA	2.13	0.78
2:I:70:PHE:N	2:J:99:ARG:CD	2.46	0.78
1:A:437:VAL:HB	1:A:462:PHE:CE1	2.19	0.77
1:B:337:PRO:HG2	1:B:366:VAL:HA	1.67	0.77
1:B:437:VAL:HB	1:B:462:PHE:CE1	2.19	0.77
1:C:39:ILE:HD13	1:C:327:PHE:CB	1.96	0.77
1:C:338:LEU:HD11	1:C:393:ALA:HB2	1.64	0.77
1:C:366:VAL:O	1:C:393:ALA:CB	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:537:LYS:HG3	1:C:545:PHE:HE2	1.33	0.77
1:E:81:ASN:CA	1:E:84:ALA:HB3	2.05	0.77
1:E:110:LYS:CB	1:E:192:SER:HB3	2.09	0.77
1:E:550:VAL:HB	1:E:556:GLY:HA2	1.66	0.77
1:F:64:ARG:H	1:F:64:ARG:HD3	1.50	0.77
1:F:337:PRO:HG2	1:F:366:VAL:HA	1.66	0.77
2:G:71:VAL:N	2:H:99:ARG:HD2	1.98	0.77
1:A:252:PHE:CE2	1:A:257:LYS:HA	2.19	0.77
1:A:366:VAL:O	1:A:393:ALA:CB	2.32	0.77
1:B:566:TYR:CD2	1:B:572:LYS:C	2.23	0.77
1:C:81:ASN:CA	1:C:84:ALA:HB3	2.05	0.77
1:D:166:THR:CG2	1:D:171:HIS:C	2.52	0.77
1:D:320:TRP:CE2	1:D:344:VAL:HA	2.19	0.77
1:E:449:LEU:HD23	1:E:452:LEU:HD21	1.66	0.77
1:E:543:GLN:HE21	1:E:568:ILE:HG23	1.50	0.77
1:F:245:ALA:HB1	1:F:265:VAL:HG22	1.65	0.77
1:F:264:ILE:HG21	1:F:269:GLN:CB	2.11	0.77
1:F:320:TRP:HE1	1:F:344:VAL:CA	1.97	0.77
2:I:63:PHE:HA	2:J:96:SER:CB	2.13	0.77
2:K:70:PHE:HB3	2:L:99:ARG:HG3	1.67	0.77
1:A:504:LEU:CD2	1:A:529:ILE:HG23	2.14	0.77
1:C:392:VAL:HG23	1:C:457:ILE:HG13	1.67	0.77
1:D:43:GLU:OE2	1:D:67:GLU:CG	2.30	0.77
1:D:535:ARG:NH2	2:K:135:GLU:HG3	1.97	0.77
1:D:543:GLN:HE21	1:D:568:ILE:HG23	1.50	0.77
1:E:53:LEU:HD21	1:E:63:PHE:HE2	1.46	0.77
1:E:170:GLU:OE2	1:E:287:GLU:OE1	2.02	0.77
2:G:99:ARG:HD2	2:L:71:VAL:N	1.98	0.77
1:A:64:ARG:HD3	1:A:64:ARG:H	1.49	0.77
1:A:392:VAL:HG23	1:A:457:ILE:HG13	1.67	0.77
1:B:366:VAL:O	1:B:393:ALA:CB	2.32	0.77
1:B:504:LEU:CD2	1:B:529:ILE:HG23	2.14	0.77
1:D:55:ASN:HD22	1:D:58:GLN:CG	1.93	0.77
1:D:150:ILE:CD1	1:D:154:PHE:HE2	1.81	0.77
1:E:437:VAL:CG2	1:E:462:PHE:CZ	2.68	0.77
1:F:51:TYR:CZ	1:F:62:LEU:HD13	2.18	0.77
1:F:264:ILE:HD12	1:F:269:GLN:CG	2.02	0.77
1:F:320:TRP:NE1	1:F:344:VAL:CB	2.46	0.77
2:G:70:PHE:HB3	2:H:99:ARG:HG3	1.67	0.77
2:H:71:VAL:H	2:I:99:ARG:HD2	1.48	0.77
2:H:127:GLU:O	2:I:8:THR:CG2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:13:GLU:OE1	2:K:27:LYS:HE3	1.85	0.77
1:C:123:LEU:CB	1:C:128:LEU:HD11	2.13	0.77
1:C:535:ARG:NH2	2:J:135:GLU:CG	2.45	0.77
1:D:51:TYR:CZ	1:D:62:LEU:HD13	2.18	0.77
1:D:64:ARG:HD3	1:D:64:ARG:H	1.49	0.77
1:D:449:LEU:HD23	1:D:452:LEU:HD21	1.66	0.77
1:E:51:TYR:CZ	1:E:62:LEU:HD13	2.19	0.77
1:E:166:THR:CG2	1:E:171:HIS:C	2.53	0.77
1:E:320:TRP:HE1	1:E:344:VAL:CB	1.96	0.77
1:F:112:TYR:HA	1:F:141:ASP:CB	2.11	0.77
1:F:366:VAL:O	1:F:393:ALA:CB	2.32	0.77
1:F:504:LEU:CD2	1:F:529:ILE:HG23	2.14	0.77
1:A:166:THR:CG2	1:A:171:HIS:C	2.53	0.77
1:B:166:THR:CG2	1:B:171:HIS:C	2.52	0.77
1:B:170:GLU:OE2	1:B:287:GLU:OE1	2.02	0.77
1:D:366:VAL:O	1:D:393:ALA:CB	2.32	0.77
1:E:112:TYR:HA	1:E:141:ASP:CB	2.11	0.77
1:E:366:VAL:O	1:E:393:ALA:CB	2.32	0.77
1:F:392:VAL:HG23	1:F:457:ILE:HG13	1.67	0.77
2:G:24:ALA:HB2	2:G:71:VAL:C	2.04	0.77
2:G:71:VAL:H	2:H:99:ARG:HD2	1.48	0.77
2:G:92:LEU:HD13	2:G:104:VAL:HG21	1.64	0.77
2:L:13:GLU:OE1	2:L:27:LYS:HE3	1.85	0.77
1:D:338:LEU:HD11	1:D:393:ALA:HB2	1.64	0.77
2:G:128:GLU:HA	2:H:8:THR:HG22	1.66	0.77
1:B:45:GLY:HA2	1:B:111:ILE:CD1	2.14	0.77
1:B:392:VAL:HG23	1:B:457:ILE:HG13	1.67	0.77
1:C:437:VAL:CG2	1:C:462:PHE:CZ	2.68	0.77
1:C:550:VAL:HB	1:C:556:GLY:HA2	1.66	0.77
1:D:392:VAL:HG23	1:D:457:ILE:HG13	1.67	0.77
1:E:337:PRO:HG2	1:E:366:VAL:HA	1.67	0.77
1:E:392:VAL:HG23	1:E:457:ILE:HG13	1.67	0.77
1:F:110:LYS:CB	1:F:192:SER:HB3	2.09	0.77
1:F:550:VAL:HB	1:F:556:GLY:HA2	1.66	0.77
2:H:70:PHE:HB3	2:I:99:ARG:HG3	1.67	0.77
2:J:27:LYS:CE	2:K:95:GLN:O	2.33	0.77
2:J:92:LEU:HD13	2:J:104:VAL:HG21	1.64	0.77
2:L:24:ALA:HB2	2:L:71:VAL:C	2.04	0.77
1:A:245:ALA:HB1	1:A:265:VAL:HG22	1.66	0.77
1:B:320:TRP:HE1	1:B:344:VAL:HG23	1.12	0.77
1:C:111:ILE:O	1:C:189:GLU:CB	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:113:GLY:N	1:C:141:ASP:CB	2.42	0.77
1:C:437:VAL:HB	1:C:462:PHE:CE1	2.20	0.77
1:D:252:PHE:CE2	1:D:257:LYS:HA	2.19	0.77
1:D:320:TRP:HE1	1:D:344:VAL:CA	1.97	0.77
2:G:99:ARG:CD	2:L:70:PHE:CB	2.48	0.77
2:I:23:MET:HB3	2:I:74:MET:CA	2.00	0.77
2:K:27:LYS:CE	2:L:95:GLN:O	2.33	0.77
1:A:320:TRP:HZ2	1:A:344:VAL:HA	1.50	0.77
1:B:524:ILE:HG12	2:I:107:TYR:CE2	2.20	0.77
1:C:166:THR:CG2	1:C:171:HIS:C	2.53	0.77
1:C:252:PHE:CE2	1:C:257:LYS:HA	2.19	0.77
1:D:170:GLU:OE2	1:D:287:GLU:OE1	2.02	0.77
2:G:95:GLN:O	2:L:27:LYS:CE	2.33	0.77
2:H:13:GLU:OE1	2:H:27:LYS:HE3	1.85	0.77
1:B:92:ILE:HD11	1:B:326:LYS:HZ2	1.48	0.76
1:C:170:GLU:OE2	1:C:287:GLU:HA	1.85	0.76
1:C:170:GLU:OE2	1:C:287:GLU:OE1	2.02	0.76
1:C:337:PRO:HG2	1:C:366:VAL:HA	1.66	0.76
1:D:335:ILE:CG1	1:D:362:MET:HE1	2.06	0.76
1:D:504:LEU:CD2	1:D:529:ILE:HG23	2.14	0.76
1:E:174:GLU:O	1:E:175:THR:OG1	2.04	0.76
1:E:264:ILE:HG21	1:E:269:GLN:CB	2.11	0.76
2:G:13:GLU:OE1	2:G:27:LYS:HE3	1.85	0.76
2:J:63:PHE:HA	2:K:96:SER:CB	2.13	0.76
1:B:64:ARG:HD3	1:B:64:ARG:H	1.49	0.76
1:B:550:VAL:HB	1:B:556:GLY:HA2	1.66	0.76
1:C:64:ARG:H	1:C:64:ARG:HD3	1.49	0.76
1:D:245:ALA:HB1	1:D:265:VAL:HG22	1.66	0.76
1:F:252:PHE:CE2	1:F:257:LYS:HA	2.19	0.76
1:F:408:VAL:HA	1:F:409:PRO:CD	2.15	0.76
2:I:27:LYS:CE	2:J:95:GLN:O	2.33	0.76
2:I:70:PHE:HB3	2:J:99:ARG:HG3	1.66	0.76
2:J:130:VAL:N	2:K:6:GLN:CB	2.44	0.76
1:A:150:ILE:CD1	1:A:154:PHE:HE2	1.81	0.76
1:A:183:LEU:HD11	1:A:192:SER:HG	1.50	0.76
1:B:270:LEU:HD22	1:B:274:GLY:CA	2.15	0.76
1:B:338:LEU:HD11	1:B:393:ALA:HB2	1.64	0.76
1:D:170:GLU:OE2	1:D:287:GLU:HA	1.85	0.76
1:E:252:PHE:CE2	1:E:257:LYS:HA	2.19	0.76
1:E:320:TRP:CE2	1:E:344:VAL:HA	2.19	0.76
1:F:47:PRO:N	1:F:111:ILE:HG21	1.62	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:437:VAL:HB	1:F:462:PHE:CE1	2.20	0.76
2:I:127:GLU:C	2:J:8:THR:HG21	1.82	0.76
2:J:13:GLU:OE1	2:J:27:LYS:HE3	1.85	0.76
2:J:128:GLU:HA	2:K:8:THR:HG22	1.66	0.76
1:A:550:VAL:HB	1:A:556:GLY:HA2	1.66	0.76
1:C:45:GLY:HA2	1:C:112:TYR:CD1	2.21	0.76
1:D:81:ASN:CA	1:D:84:ALA:HB3	2.05	0.76
1:D:112:TYR:C	1:D:141:ASP:HB3	2.06	0.76
1:F:45:GLY:HA2	1:F:112:TYR:CD1	2.21	0.76
2:I:128:GLU:HA	2:J:8:THR:HG22	1.66	0.76
1:A:60:LYS:O	1:A:64:ARG:CB	2.33	0.76
1:A:335:ILE:HG12	1:A:362:MET:HE3	1.66	0.76
1:A:437:VAL:CG2	1:A:462:PHE:CZ	2.68	0.76
1:B:45:GLY:HA2	1:B:112:TYR:CD1	2.21	0.76
1:C:52:GLU:HG2	1:C:88:LEU:HD21	1.66	0.76
1:D:537:LYS:CG	1:D:545:PHE:HE2	1.84	0.76
1:A:112:TYR:C	1:A:141:ASP:HB3	2.06	0.76
1:B:113:GLY:N	1:B:141:ASP:CB	2.42	0.76
1:C:169:VAL:CB	1:C:286:GLU:OE1	2.27	0.76
1:C:270:LEU:HD22	1:C:274:GLY:CA	2.15	0.76
1:D:437:VAL:CG2	1:D:462:PHE:CZ	2.68	0.76
2:H:102:GLU:HB3	2:H:141:GLU:O	1.86	0.76
2:K:128:GLU:HA	2:L:8:THR:HG22	1.66	0.76
1:A:111:ILE:O	1:A:189:GLU:CB	2.33	0.76
1:A:337:PRO:HG2	1:A:366:VAL:HA	1.66	0.76
1:B:111:ILE:O	1:B:189:GLU:CB	2.32	0.76
1:B:437:VAL:CG2	1:B:462:PHE:CZ	2.68	0.76
1:C:45:GLY:HA2	1:C:111:ILE:CD1	2.14	0.76
1:C:112:TYR:C	1:C:141:ASP:HB3	2.06	0.76
1:D:282:VAL:HG12	1:D:287:GLU:CB	2.16	0.76
1:D:437:VAL:HB	1:D:462:PHE:CE1	2.19	0.76
1:D:550:VAL:HB	1:D:556:GLY:HA2	1.67	0.76
1:E:110:LYS:CB	1:E:190:VAL:O	2.26	0.76
1:F:45:GLY:HA2	1:F:111:ILE:CD1	2.14	0.76
1:F:174:GLU:O	1:F:175:THR:OG1	2.04	0.76
2:H:129:GLU:C	2:I:6:GLN:HB2	1.95	0.76
2:I:13:GLU:OE1	2:I:27:LYS:HE3	1.85	0.76
1:F:437:VAL:CG2	1:F:462:PHE:CZ	2.68	0.76
1:B:134:LEU:HD21	1:B:143:PHE:CD1	2.21	0.76
1:E:338:LEU:CB	1:E:412:MET:HE3	2.15	0.76
1:E:437:VAL:HB	1:E:462:PHE:CE1	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:99:ARG:HG3	2:L:70:PHE:HB3	1.66	0.76
2:H:22:GLU:CB	2:H:70:PHE:CE2	2.50	0.76
2:I:129:GLU:C	2:J:6:GLN:CB	2.28	0.76
1:B:170:GLU:OE2	1:B:287:GLU:HA	1.85	0.76
1:B:252:PHE:CE2	1:B:257:LYS:HA	2.19	0.76
1:C:543:GLN:HE21	1:C:568:ILE:HG23	1.50	0.76
1:D:408:VAL:HA	1:D:409:PRO:CD	2.15	0.76
2:G:8:THR:HG22	2:L:128:GLU:HA	1.66	0.76
2:L:102:GLU:HB3	2:L:141:GLU:O	1.86	0.76
1:A:246:VAL:HG22	1:A:264:ILE:HB	1.69	0.75
1:E:43:GLU:OE2	1:E:67:GLU:CD	2.16	0.75
1:E:55:ASN:HD22	1:E:58:GLN:CG	1.93	0.75
1:E:112:TYR:C	1:E:141:ASP:HB3	2.06	0.75
1:F:536:LYS:HB2	1:F:542:ILE:HD12	1.69	0.75
2:G:27:LYS:CE	2:H:95:GLN:O	2.33	0.75
2:G:95:GLN:CG	2:L:27:LYS:HE2	2.17	0.75
2:J:102:GLU:HB3	2:J:141:GLU:O	1.86	0.75
1:A:34:LYS:HB2	1:A:422:SER:HB3	1.69	0.75
1:A:270:LEU:HD22	1:A:274:GLY:CA	2.15	0.75
1:B:169:VAL:CB	1:B:286:GLU:OE1	2.27	0.75
1:C:408:VAL:HA	1:C:409:PRO:CD	2.15	0.75
1:D:337:PRO:HG2	1:D:366:VAL:HA	1.67	0.75
2:G:27:LYS:HE2	2:H:95:GLN:CG	2.17	0.75
1:A:335:ILE:HB	1:A:364:ALA:HA	1.69	0.75
1:B:34:LYS:HB2	1:B:422:SER:HB3	1.68	0.75
1:B:246:VAL:HG22	1:B:264:ILE:HB	1.69	0.75
1:B:338:LEU:CD1	1:B:393:ALA:HB1	2.12	0.75
1:F:34:LYS:HB2	1:F:422:SER:HB3	1.68	0.75
2:K:102:GLU:HB3	2:K:141:GLU:O	1.86	0.75
1:E:170:GLU:OE2	1:E:287:GLU:HA	1.85	0.75
1:E:270:LEU:HD22	1:E:274:GLY:CA	2.15	0.75
1:F:134:LEU:CD2	1:F:137:ILE:CG2	2.65	0.75
1:F:338:LEU:CD1	1:F:393:ALA:HB1	2.12	0.75
2:G:8:THR:CG2	2:L:128:GLU:HA	2.17	0.75
2:G:22:GLU:CB	2:G:70:PHE:CE2	2.50	0.75
2:G:128:GLU:HA	2:H:8:THR:CG2	2.17	0.75
2:H:27:LYS:CE	2:I:95:GLN:O	2.33	0.75
1:C:545:PHE:O	1:C:545:PHE:CD1	2.39	0.75
1:D:52:GLU:HG2	1:D:88:LEU:HD21	1.66	0.75
1:F:545:PHE:O	1:F:545:PHE:CD1	2.39	0.75
2:J:118:SER:HA	2:K:7:ASN:HD21	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:27:LYS:HE2	2:L:95:GLN:CG	2.17	0.75
1:A:536:LYS:HB2	1:A:542:ILE:HD12	1.69	0.75
1:A:545:PHE:O	1:A:545:PHE:CD1	2.39	0.75
1:B:39:ILE:HD13	1:B:327:PHE:CB	1.96	0.75
1:B:248:VAL:HG22	1:B:262:ASN:OD1	1.87	0.75
1:C:150:ILE:CD1	1:C:154:PHE:HE2	1.81	0.75
1:E:45:GLY:HA2	1:E:112:TYR:CD1	2.21	0.75
1:F:112:TYR:C	1:F:141:ASP:HB3	2.06	0.75
2:G:102:GLU:HB3	2:G:141:GLU:O	1.86	0.75
2:I:63:PHE:CA	2:J:96:SER:CB	2.65	0.75
2:K:127:GLU:C	2:L:8:THR:CB	2.55	0.75
1:A:45:GLY:HA2	1:A:112:TYR:CD1	2.21	0.75
1:A:110:LYS:CB	1:A:192:SER:HB3	2.09	0.75
1:A:248:VAL:HG22	1:A:262:ASN:OD1	1.87	0.75
1:B:112:TYR:C	1:B:141:ASP:HB3	2.06	0.75
1:B:320:TRP:HZ2	1:B:344:VAL:HA	1.50	0.75
1:C:34:LYS:HB2	1:C:422:SER:HB3	1.68	0.75
1:D:270:LEU:HD22	1:D:274:GLY:CA	2.15	0.75
1:E:536:LYS:HB2	1:E:542:ILE:HD12	1.69	0.75
1:F:246:VAL:HG22	1:F:264:ILE:HB	1.68	0.75
2:G:7:ASN:HD21	2:L:118:SER:HA	1.50	0.75
2:H:18:LEU:H	2:H:74:MET:HE1	0.90	0.75
2:H:27:LYS:HE2	2:I:95:GLN:CG	2.17	0.75
2:H:63:PHE:CA	2:I:96:SER:CB	2.65	0.75
1:A:174:GLU:O	1:A:175:THR:OG1	2.04	0.75
1:A:264:ILE:HG21	1:A:269:GLN:CB	2.11	0.75
1:D:545:PHE:O	1:D:545:PHE:CD1	2.39	0.75
1:E:408:VAL:HA	1:E:409:PRO:CD	2.14	0.75
1:A:170:GLU:OE2	1:A:287:GLU:HA	1.85	0.75
1:A:320:TRP:HE1	1:A:344:VAL:HG23	1.12	0.75
1:C:132:LEU:CD1	1:C:148:ASP:HA	2.17	0.75
1:C:366:VAL:HG12	1:C:367:GLY:N	2.02	0.75
1:D:264:ILE:HG21	1:D:269:GLN:CB	2.11	0.75
1:E:320:TRP:HE1	1:E:344:VAL:CA	1.97	0.75
1:F:39:ILE:CA	1:F:326:LYS:HE2	2.16	0.75
1:F:93:GLU:CD	1:F:140:ASP:HB3	2.07	0.75
1:F:501:VAL:HG22	1:F:576:VAL:HG11	1.69	0.75
2:G:127:GLU:C	2:H:8:THR:CB	2.55	0.75
2:I:102:GLU:HB3	2:I:141:GLU:O	1.86	0.75
2:I:128:GLU:HA	2:J:8:THR:CG2	2.17	0.75
2:J:70:PHE:HB3	2:K:99:ARG:HG3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LEU:CD1	1:A:148:ASP:HA	2.17	0.74
1:A:282:VAL:HG12	1:A:287:GLU:CB	2.16	0.74
1:B:93:GLU:CD	1:B:140:ASP:HB3	2.07	0.74
1:B:132:LEU:CD1	1:B:148:ASP:HA	2.17	0.74
1:B:366:VAL:HG12	1:B:367:GLY:N	2.02	0.74
1:C:60:LYS:O	1:C:64:ARG:CB	2.33	0.74
1:C:252:PHE:CE2	1:C:257:LYS:CB	2.70	0.74
1:D:34:LYS:HB2	1:D:422:SER:HB3	1.69	0.74
1:D:39:ILE:CA	1:D:326:LYS:HE2	2.16	0.74
1:D:113:GLY:N	1:D:141:ASP:CB	2.42	0.74
1:E:52:GLU:HG2	1:E:88:LEU:HD21	1.66	0.74
1:E:92:ILE:CD1	1:E:326:LYS:HZ1	1.97	0.74
1:F:270:LEU:HD22	1:F:274:GLY:CA	2.15	0.74
2:K:118:SER:HA	2:L:7:ASN:HD21	1.50	0.74
1:A:251:VAL:HB	1:A:259:THR:OG1	1.88	0.74
1:A:338:LEU:CD1	1:A:393:ALA:HB1	2.12	0.74
1:A:387:PRO:CG	1:A:390:SER:CB	2.42	0.74
1:B:39:ILE:CA	1:B:326:LYS:HE2	2.16	0.74
1:F:170:GLU:OE2	1:F:287:GLU:HA	1.85	0.74
2:G:118:SER:HA	2:H:7:ASN:HD21	1.50	0.74
1:A:39:ILE:CA	1:A:326:LYS:HE2	2.16	0.74
1:A:501:VAL:HG22	1:A:576:VAL:HG11	1.69	0.74
1:B:252:PHE:CE2	1:B:257:LYS:CB	2.70	0.74
1:C:39:ILE:CA	1:C:326:LYS:HE2	2.16	0.74
1:C:134:LEU:HD21	1:C:143:PHE:CD1	2.21	0.74
1:D:366:VAL:HG12	1:D:367:GLY:N	2.02	0.74
1:E:282:VAL:HG12	1:E:287:GLU:CB	2.16	0.74
1:E:437:VAL:HG23	1:E:462:PHE:HZ	1.52	0.74
1:F:251:VAL:HB	1:F:259:THR:OG1	1.88	0.74
1:F:320:TRP:HD1	1:F:340:SER:CB	2.00	0.74
1:F:335:ILE:HB	1:F:364:ALA:HA	1.69	0.74
2:G:129:GLU:C	2:H:6:GLN:HB2	1.95	0.74
2:H:127:GLU:C	2:I:8:THR:CB	2.55	0.74
1:A:93:GLU:CD	1:A:140:ASP:HB3	2.07	0.74
1:C:93:GLU:CD	1:C:140:ASP:HB3	2.07	0.74
1:D:335:ILE:HB	1:D:364:ALA:HA	1.69	0.74
1:E:45:GLY:HA2	1:E:111:ILE:CD1	2.14	0.74
1:E:338:LEU:C	1:E:412:MET:HE3	2.07	0.74
1:F:76:TRP:CD1	1:F:415:VAL:HG23	2.23	0.74
2:J:127:GLU:C	2:K:8:THR:CB	2.55	0.74
1:A:252:PHE:CE2	1:A:257:LYS:CB	2.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:ILE:CD1	1:B:326:LYS:HZ2	1.87	0.74
1:B:535:ARG:HH22	2:I:135:GLU:HG3	1.45	0.74
1:C:246:VAL:HG22	1:C:264:ILE:HB	1.69	0.74
1:C:320:TRP:CD1	1:C:344:VAL:HG22	2.15	0.74
1:D:536:LYS:HB2	1:D:542:ILE:HD12	1.69	0.74
1:E:76:TRP:CD1	1:E:415:VAL:HG23	2.23	0.74
1:E:499:PHE:HE2	1:E:532:TYR:HH	0.74	0.74
1:F:437:VAL:HG23	1:F:462:PHE:HZ	1.52	0.74
2:G:127:GLU:C	2:H:8:THR:HG21	1.82	0.74
1:A:407:HIS:O	1:A:409:PRO:HD2	1.88	0.74
1:B:76:TRP:CD1	1:B:415:VAL:HG23	2.23	0.74
1:B:251:VAL:HB	1:B:259:THR:OG1	1.88	0.74
1:B:504:LEU:CD2	1:B:529:ILE:HD12	2.18	0.74
1:E:93:GLU:CD	1:E:140:ASP:HB3	2.07	0.74
1:E:134:LEU:CD2	1:E:137:ILE:CG2	2.64	0.74
1:E:134:LEU:HD21	1:E:143:PHE:CD1	2.21	0.74
1:F:90:MET:O	1:F:326:LYS:HE2	1.87	0.74
1:F:504:LEU:CD2	1:F:529:ILE:HD12	2.18	0.74
1:A:134:LEU:CD2	1:A:137:ILE:CG2	2.65	0.74
1:B:264:ILE:HG21	1:B:269:GLN:CB	2.11	0.74
1:D:132:LEU:CD1	1:D:148:ASP:HA	2.17	0.74
1:D:252:PHE:CE2	1:D:257:LYS:CB	2.70	0.74
1:E:39:ILE:CA	1:E:326:LYS:HE2	2.16	0.74
1:E:251:VAL:HB	1:E:259:THR:OG1	1.88	0.74
1:F:338:LEU:HG	1:F:414:ALA:CB	2.17	0.74
2:G:63:PHE:CA	2:H:96:SER:CB	2.65	0.74
1:D:527:ASP:HB3	2:K:136:ASP:CG	2.06	0.74
1:E:501:VAL:HG22	1:E:576:VAL:HG11	1.69	0.74
1:F:132:LEU:CD1	1:F:148:ASP:HA	2.17	0.74
2:J:63:PHE:CA	2:K:96:SER:CB	2.65	0.74
1:A:366:VAL:HG12	1:A:367:GLY:N	2.02	0.74
1:A:504:LEU:CD2	1:A:529:ILE:HD12	2.18	0.74
1:B:134:LEU:CD2	1:B:137:ILE:CG2	2.65	0.74
1:C:504:LEU:CD2	1:C:529:ILE:HD12	2.18	0.74
1:E:338:LEU:HG	1:E:414:ALA:CB	2.17	0.74
1:F:248:VAL:HG22	1:F:262:ASN:OD1	1.87	0.74
1:F:338:LEU:HB3	1:F:412:MET:HE2	1.69	0.74
2:G:6:GLN:CG	2:L:130:VAL:CA	2.50	0.74
2:H:68:SER:OG	2:I:92:LEU:HD23	1.88	0.74
1:B:536:LYS:HB2	1:B:542:ILE:HD12	1.69	0.74
1:D:437:VAL:HG23	1:D:462:PHE:HZ	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:LEU:HD21	1:F:143:PHE:CD1	2.21	0.74
2:H:128:GLU:HA	2:I:8:THR:CG2	2.17	0.74
2:I:70:PHE:N	2:J:99:ARG:HD2	2.03	0.74
2:I:127:GLU:C	2:J:8:THR:CB	2.55	0.74
2:J:27:LYS:HE2	2:K:95:GLN:CG	2.17	0.74
1:B:335:ILE:HB	1:B:364:ALA:HA	1.69	0.73
1:C:248:VAL:HG22	1:C:262:ASN:OD1	1.87	0.73
1:C:536:LYS:HB2	1:C:542:ILE:HD12	1.69	0.73
1:D:45:GLY:HA2	1:D:112:TYR:CD1	2.21	0.73
1:A:134:LEU:HD21	1:A:143:PHE:CD1	2.21	0.73
1:A:320:TRP:HD1	1:A:340:SER:CB	2.00	0.73
1:C:76:TRP:CD1	1:C:415:VAL:HG23	2.23	0.73
1:E:51:TYR:CE2	1:E:53:LEU:HD23	2.22	0.73
1:E:335:ILE:HB	1:E:364:ALA:HA	1.69	0.73
1:E:504:LEU:CD2	1:E:529:ILE:HD12	2.18	0.73
1:F:51:TYR:CE2	1:F:53:LEU:HD23	2.22	0.73
2:I:27:LYS:HE2	2:J:95:GLN:CG	2.17	0.73
2:I:68:SER:OG	2:J:92:LEU:HD23	1.88	0.73
2:I:127:GLU:HA	2:J:8:THR:HB	1.70	0.73
2:K:128:GLU:HA	2:L:8:THR:CG2	2.17	0.73
1:A:47:PRO:N	1:A:111:ILE:HG21	1.62	0.73
1:A:51:TYR:CE2	1:A:53:LEU:HD23	2.22	0.73
1:B:117:ASN:OD1	1:B:187:ASP:OD1	2.06	0.73
1:B:543:GLN:HE21	1:B:568:ILE:HG23	1.50	0.73
1:C:264:ILE:HD12	1:C:269:GLN:CG	2.02	0.73
1:C:352:VAL:CG1	1:C:362:MET:CG	2.31	0.73
1:D:246:VAL:HG22	1:D:264:ILE:HB	1.69	0.73
1:D:251:VAL:HB	1:D:259:THR:OG1	1.88	0.73
1:F:252:PHE:CE2	1:F:257:LYS:CB	2.70	0.73
1:B:51:TYR:CE2	1:B:53:LEU:HD23	2.22	0.73
1:C:338:LEU:HG	1:C:414:ALA:CB	2.17	0.73
1:D:39:ILE:HB	1:D:326:LYS:HZ3	1.54	0.73
1:D:93:GLU:CD	1:D:140:ASP:HB3	2.07	0.73
1:D:504:LEU:CD2	1:D:529:ILE:HD12	2.18	0.73
1:E:320:TRP:HD1	1:E:340:SER:CB	2.00	0.73
2:I:118:SER:HA	2:J:7:ASN:HD21	1.50	0.73
2:K:68:SER:OG	2:L:92:LEU:HD23	1.88	0.73
1:A:338:LEU:HD11	1:A:414:ALA:HB2	1.57	0.73
1:B:545:PHE:CD1	1:B:545:PHE:O	2.39	0.73
1:C:51:TYR:CE2	1:C:53:LEU:HD23	2.22	0.73
1:D:51:TYR:CE2	1:D:53:LEU:HD23	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:134:LEU:CD2	1:D:137:ILE:CG2	2.65	0.73
1:D:134:LEU:HD21	1:D:143:PHE:CD1	2.21	0.73
1:D:320:TRP:HD1	1:D:340:SER:CB	2.00	0.73
1:D:537:LYS:CG	1:D:545:PHE:HD2	1.96	0.73
1:E:132:LEU:CD1	1:E:148:ASP:HA	2.17	0.73
1:E:550:VAL:CG1	1:E:556:GLY:HA2	2.19	0.73
1:F:166:THR:HG21	1:F:171:HIS:O	1.86	0.73
1:F:550:VAL:CG1	1:F:556:GLY:HA2	2.19	0.73
2:G:6:GLN:CB	2:L:130:VAL:N	2.44	0.73
2:G:8:THR:CB	2:L:127:GLU:C	2.55	0.73
2:H:127:GLU:HA	2:I:8:THR:HB	1.70	0.73
1:A:264:ILE:HD12	1:A:269:GLN:CG	2.02	0.73
1:B:407:HIS:O	1:B:409:PRO:HD2	1.88	0.73
1:E:366:VAL:HG12	1:E:367:GLY:N	2.02	0.73
1:E:545:PHE:CD1	1:E:545:PHE:O	2.39	0.73
2:G:70:PHE:N	2:H:99:ARG:HD2	2.03	0.73
2:H:70:PHE:N	2:I:99:ARG:HD2	2.03	0.73
1:A:76:TRP:CD1	1:A:415:VAL:HG23	2.23	0.73
1:A:90:MET:O	1:A:326:LYS:HE2	1.87	0.73
1:A:338:LEU:CB	1:A:414:ALA:CB	2.66	0.73
1:B:501:VAL:HG22	1:B:576:VAL:HG11	1.69	0.73
1:B:537:LYS:CG	1:B:545:PHE:HD2	1.96	0.73
1:C:251:VAL:HB	1:C:259:THR:OG1	1.88	0.73
1:C:335:ILE:HB	1:C:364:ALA:HA	1.69	0.73
1:D:248:VAL:HG22	1:D:262:ASN:OD1	1.87	0.73
1:E:45:GLY:HA2	1:E:91:ARG:HD2	1.71	0.73
1:E:113:GLY:N	1:E:141:ASP:CB	2.42	0.73
1:E:166:THR:HG21	1:E:171:HIS:O	1.86	0.73
1:E:246:VAL:HG22	1:E:264:ILE:HB	1.69	0.73
1:E:248:VAL:HG22	1:E:262:ASN:OD1	1.87	0.73
1:F:45:GLY:HA2	1:F:91:ARG:HD2	1.71	0.73
1:F:52:GLU:HG2	1:F:88:LEU:HD21	1.66	0.73
1:A:437:VAL:HG23	1:A:462:PHE:HZ	1.52	0.73
1:B:39:ILE:CD1	1:B:327:PHE:HA	2.03	0.73
1:B:90:MET:O	1:B:326:LYS:HE2	1.87	0.73
1:C:267:PHE:O	1:C:268:GLU:CB	2.33	0.73
1:C:366:VAL:O	1:C:393:ALA:HB3	1.89	0.73
1:D:90:MET:O	1:D:326:LYS:HE2	1.87	0.73
1:F:60:LYS:O	1:F:64:ARG:CB	2.33	0.73
2:G:68:SER:OG	2:H:92:LEU:HD23	1.88	0.73
2:G:92:LEU:HD23	2:L:68:SER:OG	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:96:SER:CB	2:L:63:PHE:CA	2.65	0.73
2:J:70:PHE:N	2:K:99:ARG:HD2	2.03	0.73
1:B:112:TYR:CA	1:B:141:ASP:HB2	2.06	0.73
1:B:550:VAL:CG1	1:B:556:GLY:HA2	2.19	0.73
1:E:366:VAL:O	1:E:393:ALA:HB3	1.89	0.73
1:F:117:ASN:OD1	1:F:187:ASP:OD1	2.06	0.73
1:F:553:ILE:HD12	1:F:555:GLU:HB2	1.71	0.73
1:A:45:GLY:HA2	1:A:91:ARG:HD2	1.71	0.73
1:C:501:VAL:HG22	1:C:576:VAL:HG11	1.69	0.73
1:D:117:ASN:OD1	1:D:187:ASP:OD1	2.06	0.73
1:E:90:MET:O	1:E:326:LYS:HE2	1.87	0.73
1:F:150:ILE:CD1	1:F:154:PHE:HE2	1.81	0.73
1:F:282:VAL:HG12	1:F:287:GLU:CB	2.16	0.73
2:G:99:ARG:HD2	2:L:70:PHE:N	2.03	0.73
1:B:366:VAL:O	1:B:393:ALA:HB3	1.89	0.72
1:C:437:VAL:HG23	1:C:462:PHE:HZ	1.52	0.72
1:D:39:ILE:HD13	1:D:327:PHE:CB	1.96	0.72
1:F:338:LEU:HD11	1:F:393:ALA:HB1	1.61	0.72
2:K:24:ALA:CB	2:K:71:VAL:HG13	1.91	0.72
2:K:63:PHE:CA	2:L:96:SER:CB	2.65	0.72
1:B:267:PHE:O	1:B:268:GLU:CB	2.33	0.72
1:C:39:ILE:HB	1:C:326:LYS:NZ	2.05	0.72
1:C:117:ASN:OD1	1:C:187:ASP:OD1	2.06	0.72
1:C:320:TRP:HZ2	1:C:344:VAL:CA	1.98	0.72
1:C:320:TRP:HD1	1:C:340:SER:CB	2.00	0.72
1:D:45:GLY:HA2	1:D:111:ILE:CD1	2.14	0.72
1:D:501:VAL:HG22	1:D:576:VAL:HG11	1.69	0.72
2:G:8:THR:HB	2:L:127:GLU:HA	1.70	0.72
1:A:47:PRO:CB	1:A:93:GLU:CD	2.37	0.72
1:B:264:ILE:HD12	1:B:269:GLN:CG	2.02	0.72
1:C:76:TRP:O	1:C:415:VAL:HG21	1.80	0.72
1:D:39:ILE:HB	1:D:326:LYS:NZ	2.05	0.72
1:D:550:VAL:CG1	1:D:556:GLY:HA2	2.19	0.72
2:K:68:SER:HB2	2:L:139:VAL:HG11	1.71	0.72
1:A:543:GLN:HE21	1:A:568:ILE:HG23	1.50	0.72
1:B:320:TRP:HD1	1:B:340:SER:CB	2.00	0.72
1:D:264:ILE:HD12	1:D:269:GLN:CG	2.02	0.72
1:E:335:ILE:HG12	1:E:362:MET:HE3	1.69	0.72
1:F:366:VAL:HG12	1:F:367:GLY:N	2.02	0.72
1:B:45:GLY:HA2	1:B:91:ARG:HD2	1.71	0.72
1:C:174:GLU:O	1:C:175:THR:OG1	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:TRP:CD1	1:D:415:VAL:HG23	2.23	0.72
1:D:338:LEU:HG	1:D:414:ALA:CB	2.17	0.72
1:E:39:ILE:HB	1:E:326:LYS:NZ	2.04	0.72
1:E:111:ILE:O	1:E:189:GLU:CB	2.33	0.72
1:E:252:PHE:CE2	1:E:257:LYS:CB	2.70	0.72
1:E:553:ILE:HD12	1:E:555:GLU:HB2	1.71	0.72
1:F:39:ILE:HB	1:F:326:LYS:HZ3	1.54	0.72
1:F:113:GLY:N	1:F:141:ASP:CB	2.42	0.72
1:F:537:LYS:CB	1:F:545:PHE:CD2	2.72	0.72
2:K:70:PHE:N	2:L:99:ARG:HD2	2.03	0.72
1:A:338:LEU:HG	1:A:414:ALA:CB	2.17	0.72
1:A:553:ILE:HD12	1:A:555:GLU:HB2	1.72	0.72
1:B:437:VAL:HG23	1:B:462:PHE:HZ	1.52	0.72
1:B:496:ALA:O	1:B:500:LEU:HD23	1.90	0.72
1:C:407:HIS:O	1:C:409:PRO:HD2	1.88	0.72
1:C:499:PHE:HE2	1:C:532:TYR:HH	0.73	0.72
1:C:537:LYS:CB	1:C:545:PHE:CD2	2.72	0.72
1:D:110:LYS:CB	1:D:190:VAL:O	2.27	0.72
1:D:111:ILE:O	1:D:189:GLU:CB	2.32	0.72
1:D:407:HIS:O	1:D:409:PRO:HD2	1.88	0.72
1:D:537:LYS:CB	1:D:545:PHE:CD2	2.72	0.72
1:F:39:ILE:HB	1:F:326:LYS:NZ	2.04	0.72
2:J:89:GLN:HG3	2:J:105:THR:HG22	1.72	0.72
1:A:338:LEU:HB3	1:A:412:MET:HE2	1.72	0.72
1:A:496:ALA:O	1:A:500:LEU:HD23	1.90	0.72
1:B:60:LYS:O	1:B:64:ARG:CB	2.33	0.72
1:B:335:ILE:HG12	1:B:362:MET:HE3	1.68	0.72
1:C:550:VAL:CG1	1:C:556:GLY:HA2	2.19	0.72
1:F:496:ALA:O	1:F:500:LEU:HD23	1.90	0.72
1:F:535:ARG:NH2	2:G:135:GLU:CD	2.41	0.72
2:G:68:SER:HB2	2:H:139:VAL:HG11	1.71	0.72
2:H:68:SER:HB2	2:I:139:VAL:HG11	1.71	0.72
1:A:550:VAL:CG1	1:A:556:GLY:HA2	2.19	0.72
1:B:537:LYS:CB	1:B:545:PHE:CD2	2.72	0.72
1:C:512:PHE:HE1	1:C:517:THR:OG1	1.73	0.72
2:G:130:VAL:CG2	2:H:6:GLN:HB3	2.20	0.72
1:B:174:GLU:O	1:B:175:THR:OG1	2.04	0.72
1:B:491:MET:O	1:B:493:VAL:CG2	2.38	0.72
1:C:491:MET:O	1:C:493:VAL:CG2	2.38	0.72
1:D:366:VAL:O	1:D:393:ALA:HB3	1.89	0.72
1:D:512:PHE:HE1	1:D:517:THR:OG1	1.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:ALA:O	1:E:500:LEU:HD23	1.90	0.72
2:G:6:GLN:HB3	2:L:130:VAL:CG2	2.20	0.72
2:J:68:SER:OG	2:K:92:LEU:HD23	1.88	0.72
2:L:23:MET:HB3	2:L:74:MET:H	1.55	0.72
1:A:112:TYR:CA	1:A:141:ASP:HB2	2.06	0.72
1:A:275:GLU:O	1:A:277:PRO:HD3	1.90	0.72
1:B:39:ILE:HB	1:B:326:LYS:NZ	2.04	0.72
1:C:175:THR:O	1:C:176:GLN:HB2	1.89	0.72
1:D:45:GLY:HA2	1:D:91:ARG:HD2	1.71	0.72
1:B:282:VAL:HG12	1:B:287:GLU:CB	2.16	0.71
1:C:134:LEU:CD2	1:C:137:ILE:CG2	2.65	0.71
1:F:366:VAL:O	1:F:393:ALA:HB3	1.89	0.71
2:K:63:PHE:O	2:L:94:ASP:OD1	2.08	0.71
2:K:89:GLN:HG3	2:K:105:THR:HG22	1.72	0.71
2:L:89:GLN:HG3	2:L:105:THR:HG22	1.72	0.71
1:A:282:VAL:HG13	1:A:287:GLU:OE2	1.89	0.71
1:A:491:MET:O	1:A:493:VAL:CG2	2.38	0.71
1:A:537:LYS:CB	1:A:545:PHE:CD2	2.72	0.71
1:B:282:VAL:HG13	1:B:287:GLU:OE2	1.89	0.71
1:C:537:LYS:HB3	1:C:545:PHE:CE2	2.26	0.71
1:D:175:THR:O	1:D:176:GLN:HB2	1.89	0.71
1:E:44:GLY:HA2	1:E:189:GLU:OE1	1.90	0.71
1:E:117:ASN:OD1	1:E:187:ASP:OD1	2.06	0.71
1:F:111:ILE:O	1:F:189:GLU:CB	2.33	0.71
1:F:335:ILE:HG12	1:F:362:MET:HE3	1.70	0.71
2:H:130:VAL:CG2	2:I:6:GLN:HB3	2.20	0.71
2:H:130:VAL:CA	2:I:6:GLN:HB3	2.19	0.71
2:I:18:LEU:H	2:I:74:MET:HE1	0.88	0.71
1:A:39:ILE:HB	1:A:326:LYS:NZ	2.04	0.71
1:A:51:TYR:CZ	1:A:62:LEU:CD1	2.73	0.71
1:A:60:LYS:HG3	1:A:64:ARG:O	1.91	0.71
1:A:175:THR:O	1:A:176:GLN:HB2	1.89	0.71
1:A:426:ILE:HG13	1:A:495:GLU:HB3	1.71	0.71
1:B:110:LYS:CB	1:B:192:SER:HB3	2.09	0.71
1:B:532:TYR:OH	1:B:536:LYS:CE	2.39	0.71
1:C:51:TYR:CZ	1:C:62:LEU:CD1	2.73	0.71
1:C:275:GLU:O	1:C:277:PRO:HD3	1.90	0.71
1:C:355:ARG:C	1:C:361:PRO:HD2	2.11	0.71
1:C:532:TYR:OH	1:C:536:LYS:CE	2.39	0.71
1:D:496:ALA:O	1:D:500:LEU:HD23	1.90	0.71
1:E:532:TYR:OH	1:E:536:LYS:CE	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:60:LYS:HG3	1:F:64:ARG:O	1.90	0.71
1:F:175:THR:O	1:F:176:GLN:HB2	1.89	0.71
1:F:282:VAL:HG13	1:F:287:GLU:OE2	1.89	0.71
1:F:437:VAL:HB	1:F:462:PHE:HE1	1.55	0.71
2:H:89:GLN:HG3	2:H:105:THR:HG22	1.72	0.71
2:H:118:SER:HA	2:I:7:ASN:HD21	1.50	0.71
2:I:89:GLN:HG3	2:I:105:THR:HG22	1.72	0.71
2:J:127:GLU:HA	2:K:8:THR:HB	1.70	0.71
1:A:44:GLY:HA2	1:A:189:GLU:OE1	1.91	0.71
1:C:45:GLY:HA2	1:C:91:ARG:HD2	1.71	0.71
1:C:252:PHE:HA	1:C:256:GLU:O	1.91	0.71
1:C:282:VAL:HG13	1:C:287:GLU:OE2	1.89	0.71
1:D:44:GLY:HA2	1:D:189:GLU:OE1	1.91	0.71
1:D:282:VAL:HG13	1:D:287:GLU:OE2	1.89	0.71
2:G:127:GLU:HA	2:H:8:THR:HB	1.70	0.71
1:A:43:GLU:O	1:A:188:GLN:CG	2.39	0.71
1:A:464:ARG:O	1:A:465:ASN:CB	2.39	0.71
1:C:39:ILE:HB	1:C:326:LYS:HZ3	1.55	0.71
1:C:496:ALA:O	1:C:500:LEU:HD23	1.90	0.71
1:D:174:GLU:O	1:D:175:THR:OG1	2.04	0.71
1:E:275:GLU:O	1:E:277:PRO:HD3	1.90	0.71
1:E:426:ILE:HG13	1:E:495:GLU:HB3	1.72	0.71
2:G:89:GLN:HG3	2:G:105:THR:HG22	1.72	0.71
1:A:499:PHE:HE2	1:A:532:TYR:HH	0.72	0.71
1:B:44:GLY:HA2	1:B:189:GLU:OE1	1.91	0.71
1:B:428:GLU:O	1:B:429:SER:CB	2.38	0.71
1:C:45:GLY:CA	1:C:111:ILE:HG13	2.11	0.71
1:C:426:ILE:HG13	1:C:495:GLU:HB3	1.72	0.71
1:E:60:LYS:HG3	1:E:64:ARG:O	1.91	0.71
1:F:275:GLU:O	1:F:277:PRO:HD3	1.90	0.71
2:I:130:VAL:N	2:J:6:GLN:CB	2.44	0.71
1:A:110:LYS:CB	1:A:190:VAL:O	2.26	0.71
1:A:366:VAL:O	1:A:393:ALA:HB3	1.89	0.71
1:A:437:VAL:HB	1:A:462:PHE:HE1	1.55	0.71
1:C:90:MET:O	1:C:326:LYS:HE2	1.87	0.71
1:D:524:ILE:CG1	2:K:107:TYR:CE2	2.70	0.71
1:E:60:LYS:O	1:E:64:ARG:CB	2.33	0.71
1:E:282:VAL:HG13	1:E:287:GLU:OE2	1.89	0.71
1:E:428:GLU:O	1:E:429:SER:CB	2.38	0.71
1:E:537:LYS:CB	1:E:545:PHE:CD2	2.72	0.71
1:F:44:GLY:HA2	1:F:189:GLU:OE1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ILE:HB	1:A:326:LYS:HZ3	1.55	0.71
1:A:166:THR:HG21	1:A:171:HIS:O	1.86	0.71
1:A:527:ASP:CB	2:H:136:ASP:OD2	2.39	0.71
1:B:275:GLU:O	1:B:277:PRO:HD3	1.90	0.71
1:B:338:LEU:HG	1:B:414:ALA:CB	2.17	0.71
1:B:512:PHE:HE1	1:B:517:THR:OG1	1.73	0.71
1:D:166:THR:HG21	1:D:171:HIS:O	1.86	0.71
1:D:428:GLU:O	1:D:429:SER:CB	2.38	0.71
1:E:320:TRP:HZ2	1:E:344:VAL:CA	1.97	0.71
1:F:532:TYR:OH	1:F:536:LYS:CE	2.39	0.71
2:I:68:SER:HB2	2:J:139:VAL:HG11	1.71	0.71
2:I:130:VAL:CG2	2:J:6:GLN:HB3	2.20	0.71
1:A:245:ALA:HB1	1:A:265:VAL:CG2	2.21	0.71
1:B:426:ILE:HG13	1:B:495:GLU:HB3	1.72	0.71
1:B:553:ILE:HD12	1:B:555:GLU:HB2	1.72	0.71
1:C:428:GLU:O	1:C:429:SER:CB	2.38	0.71
1:D:275:GLU:O	1:D:277:PRO:HD3	1.90	0.71
1:F:34:LYS:HG3	1:F:34:LYS:O	1.91	0.71
2:K:23:MET:HB3	2:K:74:MET:H	1.55	0.71
2:K:127:GLU:HA	2:L:8:THR:HB	1.70	0.71
1:A:154:PHE:CZ	1:A:199:ALA:HB2	2.20	0.71
1:C:43:GLU:O	1:C:188:GLN:CG	2.39	0.71
1:C:112:TYR:CA	1:C:141:ASP:CG	2.58	0.71
1:D:252:PHE:HA	1:D:256:GLU:O	1.91	0.71
1:D:267:PHE:O	1:D:268:GLU:CB	2.33	0.71
1:E:537:LYS:HB3	1:E:545:PHE:CE2	2.25	0.71
1:F:426:ILE:HG13	1:F:495:GLU:HB3	1.72	0.71
1:F:543:GLN:HE21	1:F:568:ILE:HG23	1.50	0.71
2:G:23:MET:HB3	2:G:74:MET:H	1.55	0.71
2:G:63:PHE:O	2:H:94:ASP:OD1	2.08	0.71
2:H:130:VAL:CA	2:I:6:GLN:CG	2.50	0.71
1:A:92:ILE:HD13	1:A:323:LYS:CB	2.21	0.70
1:B:39:ILE:HB	1:B:326:LYS:HZ3	1.55	0.70
1:B:51:TYR:CZ	1:B:62:LEU:CD1	2.73	0.70
1:C:110:LYS:CB	1:C:192:SER:HB3	2.09	0.70
1:C:437:VAL:HB	1:C:462:PHE:HE1	1.55	0.70
1:D:355:ARG:C	1:D:361:PRO:HD2	2.11	0.70
1:D:532:TYR:OH	1:D:536:LYS:CE	2.39	0.70
1:E:320:TRP:CD1	1:E:340:SER:CB	2.74	0.70
1:F:92:ILE:HD13	1:F:323:LYS:CB	2.21	0.70
1:F:338:LEU:HD11	1:F:414:ALA:HB2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:63:PHE:O	2:K:94:ASP:OD1	2.08	0.70
1:A:34:LYS:O	1:A:34:LYS:HG3	1.91	0.70
1:A:90:MET:O	1:A:326:LYS:HE3	1.92	0.70
1:A:252:PHE:HA	1:A:256:GLU:O	1.91	0.70
1:A:532:TYR:OH	1:A:536:LYS:CE	2.39	0.70
1:B:355:ARG:C	1:B:361:PRO:HD2	2.11	0.70
1:C:47:PRO:CB	1:C:93:GLU:CD	2.37	0.70
1:C:245:ALA:HB1	1:C:265:VAL:CG2	2.21	0.70
1:C:535:ARG:NH2	2:J:135:GLU:OE1	2.25	0.70
1:D:52:GLU:CG	1:D:88:LEU:HD23	2.16	0.70
1:D:553:ILE:HD12	1:D:555:GLU:HB2	1.71	0.70
1:E:90:MET:O	1:E:326:LYS:HE3	1.92	0.70
1:F:90:MET:O	1:F:326:LYS:HE3	1.91	0.70
1:F:491:MET:O	1:F:493:VAL:CG2	2.38	0.70
2:G:139:VAL:HG11	2:L:68:SER:HB2	1.71	0.70
2:J:68:SER:HB2	2:K:139:VAL:HG11	1.71	0.70
1:C:44:GLY:HA2	1:C:189:GLU:OE1	1.91	0.70
1:C:282:VAL:HG12	1:C:287:GLU:CB	2.16	0.70
1:D:51:TYR:CZ	1:D:62:LEU:CD1	2.73	0.70
1:D:60:LYS:O	1:D:64:ARG:CB	2.33	0.70
1:D:245:ALA:HB1	1:D:265:VAL:CG2	2.21	0.70
1:D:426:ILE:HG13	1:D:495:GLU:HB3	1.71	0.70
1:E:175:THR:O	1:E:176:GLN:HB2	1.89	0.70
1:E:417:LEU:HD13	1:E:458:ILE:HG21	1.74	0.70
1:E:491:MET:O	1:E:493:VAL:CG2	2.38	0.70
1:F:320:TRP:CD1	1:F:340:SER:CB	2.74	0.70
1:F:428:GLU:O	1:F:429:SER:CB	2.38	0.70
1:A:428:GLU:O	1:A:429:SER:CB	2.38	0.70
1:B:43:GLU:O	1:B:188:GLN:CG	2.39	0.70
1:B:417:LEU:HD13	1:B:458:ILE:HG21	1.74	0.70
1:B:464:ARG:O	1:B:465:ASN:CB	2.39	0.70
1:C:464:ARG:O	1:C:465:ASN:CB	2.39	0.70
1:D:491:MET:O	1:D:493:VAL:CG2	2.38	0.70
1:F:512:PHE:HE1	1:F:517:THR:OG1	1.73	0.70
1:A:512:PHE:HE1	1:A:517:THR:OG1	1.73	0.70
1:C:34:LYS:HG3	1:C:34:LYS:O	1.91	0.70
1:D:399:VAL:CG2	1:D:411:TYR:CE1	2.75	0.70
1:E:34:LYS:HG3	1:E:34:LYS:O	1.91	0.70
1:E:464:ARG:O	1:E:465:ASN:CB	2.39	0.70
1:F:43:GLU:O	1:F:188:GLN:CG	2.39	0.70
1:F:355:ARG:C	1:F:361:PRO:HD2	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:252:PHE:HA	1:B:256:GLU:O	1.91	0.70
1:B:338:LEU:CA	1:B:412:MET:HE2	2.22	0.70
1:C:417:LEU:HD13	1:C:458:ILE:HG21	1.74	0.70
1:D:34:LYS:O	1:D:34:LYS:HG3	1.91	0.70
1:D:524:ILE:HG12	2:K:107:TYR:OH	1.90	0.70
1:D:537:LYS:HB3	1:D:545:PHE:CE2	2.26	0.70
1:E:43:GLU:O	1:E:188:GLN:CG	2.39	0.70
1:E:51:TYR:CZ	1:E:62:LEU:CD1	2.73	0.70
1:E:252:PHE:HA	1:E:256:GLU:O	1.91	0.70
1:F:252:PHE:HA	1:F:256:GLU:O	1.91	0.70
2:G:94:ASP:OD1	2:L:63:PHE:O	2.08	0.70
1:A:267:PHE:O	1:A:268:GLU:CB	2.33	0.70
1:A:338:LEU:CA	1:A:412:MET:HE2	2.22	0.70
1:C:399:VAL:CG2	1:C:411:TYR:CE1	2.75	0.70
1:D:51:TYR:HE2	1:D:62:LEU:CD1	2.05	0.70
1:E:512:PHE:HE1	1:E:517:THR:OG1	1.73	0.70
1:F:338:LEU:CA	1:F:412:MET:HE2	2.22	0.70
2:I:63:PHE:O	2:J:94:ASP:OD1	2.08	0.70
1:B:175:THR:O	1:B:176:GLN:HB2	1.89	0.70
1:B:452:LEU:O	1:B:457:ILE:HG22	1.92	0.70
1:B:499:PHE:HE2	1:B:532:TYR:HH	0.70	0.70
1:E:399:VAL:CG2	1:E:411:TYR:CE1	2.75	0.70
1:A:34:LYS:HB2	1:A:422:SER:CA	2.22	0.70
1:A:452:LEU:O	1:A:457:ILE:HG22	1.92	0.70
1:B:34:LYS:HB2	1:B:422:SER:CA	2.22	0.70
1:B:52:GLU:CG	1:B:88:LEU:HD23	2.16	0.70
1:D:60:LYS:HG3	1:D:64:ARG:O	1.91	0.70
1:F:417:LEU:HD13	1:F:458:ILE:HG21	1.74	0.70
2:H:24:ALA:HB2	2:H:71:VAL:HA	1.72	0.70
2:J:128:GLU:HA	2:K:8:THR:CG2	2.17	0.70
1:A:355:ARG:C	1:A:361:PRO:HD2	2.11	0.70
1:B:34:LYS:HG3	1:B:34:LYS:O	1.91	0.70
1:C:60:LYS:HG3	1:C:64:ARG:O	1.91	0.70
1:C:553:ILE:HD12	1:C:555:GLU:HB2	1.71	0.70
1:D:417:LEU:HD13	1:D:458:ILE:HG21	1.74	0.70
1:A:537:LYS:HB3	1:A:545:PHE:CE2	2.25	0.69
1:B:245:ALA:HB1	1:B:265:VAL:CG2	2.21	0.69
1:B:504:LEU:HD23	1:B:529:ILE:HD12	1.74	0.69
1:C:52:GLU:CG	1:C:88:LEU:HD23	2.16	0.69
1:C:452:LEU:O	1:C:457:ILE:HG22	1.92	0.69
1:D:92:ILE:HD13	1:D:323:LYS:CB	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:ALA:HB1	1:E:265:VAL:CG2	2.21	0.69
2:K:58:THR:HG22	2:K:59:GLY:N	2.07	0.69
2:L:58:THR:HG22	2:L:59:GLY:N	2.07	0.69
1:B:501:VAL:CG2	1:B:576:VAL:HG11	2.22	0.69
1:C:34:LYS:HB2	1:C:422:SER:CA	2.22	0.69
1:E:175:THR:OG1	1:E:198:GLY:HA2	1.93	0.69
1:E:501:VAL:CG2	1:E:576:VAL:HG11	2.22	0.69
2:G:130:VAL:CA	2:H:6:GLN:HB3	2.19	0.69
2:H:130:VAL:HA	2:I:6:GLN:HB2	1.74	0.69
2:I:130:VAL:CA	2:J:6:GLN:HB3	2.19	0.69
1:A:110:LYS:NZ	1:A:113:GLY:HA3	2.08	0.69
1:A:254:ASP:O	1:A:255:LEU:HB2	1.92	0.69
1:A:417:LEU:HD13	1:A:458:ILE:HG21	1.74	0.69
1:B:254:ASP:O	1:B:255:LEU:HB2	1.92	0.69
1:C:264:ILE:HG21	1:C:269:GLN:CB	2.11	0.69
1:C:504:LEU:HD23	1:C:529:ILE:HD12	1.74	0.69
1:D:32:SER:HB3	1:D:426:ILE:CB	2.21	0.69
1:D:501:VAL:CG2	1:D:576:VAL:HG11	2.22	0.69
1:E:51:TYR:HE2	1:E:62:LEU:CD1	2.05	0.69
1:F:34:LYS:HB2	1:F:422:SER:CA	2.22	0.69
1:F:282:VAL:C	1:F:287:GLU:CB	2.52	0.69
1:F:464:ARG:O	1:F:465:ASN:CB	2.39	0.69
1:F:537:LYS:O	1:F:537:LYS:HD3	1.93	0.69
2:J:128:GLU:CA	2:K:8:THR:HG22	2.21	0.69
1:B:60:LYS:HG3	1:B:64:ARG:O	1.91	0.69
1:C:110:LYS:CB	1:C:190:VAL:O	2.26	0.69
1:D:320:TRP:CD1	1:D:340:SER:CB	2.74	0.69
1:D:437:VAL:HB	1:D:462:PHE:HE1	1.55	0.69
2:H:63:PHE:O	2:I:94:ASP:OD1	2.08	0.69
2:L:18:LEU:H	2:L:74:MET:HE1	0.87	0.69
1:A:504:LEU:HD23	1:A:529:ILE:HD12	1.74	0.69
1:C:92:ILE:HD13	1:C:323:LYS:CB	2.21	0.69
1:C:501:VAL:CG2	1:C:576:VAL:HG11	2.22	0.69
1:C:528:PHE:CZ	2:J:107:TYR:CG	2.80	0.69
1:D:452:LEU:O	1:D:457:ILE:HG22	1.92	0.69
1:E:92:ILE:HD13	1:E:323:LYS:CB	2.21	0.69
1:F:110:LYS:NZ	1:F:113:GLY:HA3	2.08	0.69
1:F:245:ALA:HB1	1:F:265:VAL:CG2	2.21	0.69
1:F:399:VAL:CG2	1:F:411:TYR:CE1	2.75	0.69
1:F:409:PRO:HB2	1:F:411:TYR:CZ	2.27	0.69
2:G:8:THR:HG22	2:L:128:GLU:CA	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:18:LEU:H	2:G:74:MET:HE1	0.87	0.69
2:I:130:VAL:HA	2:J:6:GLN:HB2	1.74	0.69
1:A:52:GLU:HG2	1:A:88:LEU:HD21	1.66	0.69
1:A:175:THR:OG1	1:A:198:GLY:HA2	1.93	0.69
1:B:537:LYS:HB3	1:B:545:PHE:CE2	2.25	0.69
1:C:51:TYR:HE2	1:C:62:LEU:CD1	2.05	0.69
1:C:107:ILE:CB	1:C:193:TYR:CD2	2.69	0.69
1:E:92:ILE:HD11	1:E:326:LYS:HZ2	1.36	0.69
1:F:452:LEU:O	1:F:457:ILE:HG22	1.92	0.69
1:F:550:VAL:HG13	1:F:551:GLN:O	1.92	0.69
2:G:6:GLN:HB3	2:L:130:VAL:CA	2.19	0.69
2:G:27:LYS:CD	2:H:95:GLN:HG3	2.23	0.69
2:G:58:THR:HG22	2:G:59:GLY:N	2.07	0.69
1:A:271:ASN:N	1:A:277:PRO:HD3	2.08	0.69
1:C:83:THR:OG1	1:C:419:GLY:HA3	1.93	0.69
1:D:83:THR:OG1	1:D:419:GLY:HA3	1.93	0.69
1:E:437:VAL:HB	1:E:462:PHE:HE1	1.55	0.69
1:E:452:LEU:HD12	1:E:453:ASN:H	1.56	0.69
1:F:47:PRO:HB3	1:F:93:GLU:CG	2.23	0.69
2:H:23:MET:O	2:H:74:MET:CB	2.40	0.69
1:A:47:PRO:HB3	1:A:93:GLU:CG	2.23	0.69
1:A:320:TRP:CD1	1:A:340:SER:CB	2.74	0.69
1:A:452:LEU:HD12	1:A:453:ASN:H	1.56	0.69
1:A:501:VAL:HG13	1:A:578:LEU:HD11	1.75	0.69
1:B:45:GLY:CA	1:B:111:ILE:HG13	2.11	0.69
1:B:92:ILE:HD13	1:B:323:LYS:CB	2.21	0.69
1:B:271:ASN:N	1:B:277:PRO:HD3	2.08	0.69
1:B:399:VAL:CG2	1:B:411:TYR:CE1	2.75	0.69
1:B:409:PRO:HB2	1:B:411:TYR:CZ	2.27	0.69
1:B:437:VAL:HB	1:B:462:PHE:HE1	1.55	0.69
1:B:501:VAL:HG13	1:B:578:LEU:HD11	1.75	0.69
1:B:537:LYS:O	1:B:537:LYS:HD3	1.93	0.69
1:C:501:VAL:HG13	1:C:578:LEU:HD11	1.75	0.69
1:D:43:GLU:O	1:D:188:GLN:CG	2.39	0.69
1:D:110:LYS:NZ	1:D:113:GLY:HA3	2.08	0.69
1:E:34:LYS:HB2	1:E:422:SER:HB3	1.69	0.69
1:E:47:PRO:HB3	1:E:93:GLU:CG	2.23	0.69
1:E:355:ARG:C	1:E:361:PRO:HD2	2.11	0.69
1:E:409:PRO:HB2	1:E:411:TYR:CZ	2.27	0.69
1:F:51:TYR:CZ	1:F:62:LEU:CD1	2.73	0.69
1:F:175:THR:OG1	1:F:198:GLY:HA2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:452:LEU:HD12	1:F:453:ASN:H	1.56	0.69
2:J:58:THR:HG22	2:J:59:GLY:N	2.07	0.69
2:J:130:VAL:CG2	2:K:6:GLN:HB3	2.20	0.69
2:K:130:VAL:CG2	2:L:6:GLN:HB3	2.20	0.69
1:A:83:THR:OG1	1:A:419:GLY:HA3	1.93	0.69
1:B:83:THR:OG1	1:B:419:GLY:HA3	1.93	0.69
1:B:107:ILE:CB	1:B:193:TYR:CD2	2.69	0.69
1:B:320:TRP:HZ2	1:B:344:VAL:CA	1.97	0.69
1:D:175:THR:OG1	1:D:198:GLY:HA2	1.93	0.69
1:E:550:VAL:HG13	1:E:551:GLN:O	1.93	0.69
1:F:537:LYS:HB3	1:F:545:PHE:CE2	2.26	0.69
2:H:27:LYS:CD	2:I:95:GLN:HG3	2.23	0.69
2:J:18:LEU:H	2:J:74:MET:HE1	0.87	0.69
2:K:18:LEU:H	2:K:74:MET:HE1	0.86	0.69
1:A:79:ASN:HB2	1:A:433:LYS:HD3	1.75	0.69
1:A:399:VAL:CG2	1:A:411:TYR:CE1	2.75	0.69
1:A:550:VAL:HG13	1:A:551:GLN:O	1.93	0.69
1:C:110:LYS:NZ	1:C:113:GLY:HA3	2.08	0.69
1:C:175:THR:OG1	1:C:198:GLY:HA2	1.93	0.69
1:D:452:LEU:HD12	1:D:453:ASN:H	1.56	0.69
1:D:550:VAL:HG13	1:D:551:GLN:O	1.93	0.69
1:E:270:LEU:C	1:E:277:PRO:HD3	2.14	0.69
2:G:130:VAL:HA	2:H:6:GLN:HB2	1.74	0.69
2:H:128:GLU:N	2:I:8:THR:HG22	1.97	0.69
2:I:128:GLU:CA	2:J:8:THR:HG22	2.21	0.69
2:J:27:LYS:CD	2:K:95:GLN:HG3	2.23	0.69
2:J:130:VAL:CG2	2:K:6:GLN:CB	2.68	0.69
1:B:452:LEU:HD12	1:B:453:ASN:H	1.56	0.68
1:C:184:LYS:O	1:C:186:GLY:HA2	1.93	0.68
1:D:184:LYS:O	1:D:186:GLY:HA2	1.93	0.68
1:D:537:LYS:O	1:D:537:LYS:HD3	1.92	0.68
1:E:254:ASP:O	1:E:255:LEU:HB2	1.92	0.68
1:E:452:LEU:O	1:E:457:ILE:HG22	1.92	0.68
1:F:83:THR:OG1	1:F:419:GLY:HA3	1.93	0.68
1:F:271:ASN:N	1:F:277:PRO:HD3	2.08	0.68
2:H:18:LEU:HB2	2:H:74:MET:HE3	1.75	0.68
2:K:27:LYS:CD	2:L:95:GLN:HG3	2.23	0.68
1:A:320:TRP:CE2	1:A:344:VAL:HG22	2.28	0.68
1:C:80:PRO:CG	1:C:415:VAL:HG22	2.23	0.68
1:D:504:LEU:HD23	1:D:529:ILE:HD12	1.74	0.68
1:E:34:LYS:HB2	1:E:422:SER:CA	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:107:ILE:CB	1:F:193:TYR:CD2	2.69	0.68
1:F:270:LEU:C	1:F:277:PRO:HD3	2.14	0.68
1:F:499:PHE:HE2	1:F:532:TYR:HH	0.69	0.68
2:G:127:GLU:O	2:H:8:THR:CG2	2.17	0.68
1:A:184:LYS:O	1:A:186:GLY:HA2	1.93	0.68
1:A:409:PRO:HB2	1:A:411:TYR:CZ	2.27	0.68
1:A:537:LYS:O	1:A:537:LYS:HD3	1.93	0.68
1:C:282:VAL:C	1:C:287:GLU:CB	2.52	0.68
1:D:34:LYS:HB2	1:D:422:SER:CA	2.22	0.68
1:F:338:LEU:CB	1:F:414:ALA:CB	2.66	0.68
2:I:58:THR:HG22	2:I:59:GLY:N	2.07	0.68
2:I:130:VAL:HG22	2:J:6:GLN:HG3	1.73	0.68
1:A:501:VAL:CG2	1:A:576:VAL:HG11	2.22	0.68
1:C:166:THR:HG21	1:C:171:HIS:O	1.86	0.68
1:C:537:LYS:CG	1:C:545:PHE:HD2	1.96	0.68
1:D:499:PHE:HE2	1:D:532:TYR:HH	0.69	0.68
1:E:267:PHE:O	1:E:268:GLU:CB	2.33	0.68
1:F:79:ASN:HB2	1:F:433:LYS:HD3	1.75	0.68
1:F:110:LYS:CB	1:F:190:VAL:O	2.26	0.68
1:F:114:ASN:HA	1:F:137:ILE:CD1	2.24	0.68
1:F:184:LYS:O	1:F:186:GLY:HA2	1.93	0.68
1:F:254:ASP:O	1:F:255:LEU:HB2	1.92	0.68
1:F:407:HIS:CD2	1:F:408:VAL:O	2.47	0.68
2:G:95:GLN:HG3	2:L:27:LYS:CD	2.23	0.68
2:H:58:THR:HG22	2:H:59:GLY:N	2.07	0.68
1:B:110:LYS:NZ	1:B:113:GLY:HA3	2.08	0.68
1:C:550:VAL:HG13	1:C:551:GLN:O	1.93	0.68
1:D:270:LEU:C	1:D:277:PRO:HD3	2.14	0.68
1:E:537:LYS:O	1:E:537:LYS:HD3	1.93	0.68
1:F:504:LEU:HD23	1:F:529:ILE:HD12	1.74	0.68
2:G:6:GLN:CB	2:L:130:VAL:CG2	2.68	0.68
1:A:407:HIS:CD2	1:A:408:VAL:O	2.47	0.68
1:C:258:GLN:C	1:C:259:THR:HG23	2.14	0.68
1:C:452:LEU:HD12	1:C:453:ASN:H	1.56	0.68
1:E:110:LYS:NZ	1:E:113:GLY:HA3	2.08	0.68
1:F:320:TRP:CE2	1:F:344:VAL:HG22	2.28	0.68
2:H:23:MET:HB3	2:H:74:MET:H	1.55	0.68
2:H:23:MET:CB	2:H:74:MET:HA	2.24	0.68
2:I:130:VAL:CG2	2:J:6:GLN:CB	2.68	0.68
1:A:338:LEU:HB3	1:A:412:MET:CE	2.24	0.68
1:B:47:PRO:HB3	1:B:93:GLU:CG	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ASN:HB2	1:B:433:LYS:HD3	1.75	0.68
1:B:258:GLN:C	1:B:259:THR:HG23	2.14	0.68
1:B:320:TRP:CE2	1:B:344:VAL:HG22	2.28	0.68
1:B:338:LEU:HB3	1:B:412:MET:CE	2.23	0.68
1:C:121:VAL:HG22	1:C:181:LEU:HD13	1.76	0.68
1:C:254:ASP:O	1:C:255:LEU:HB2	1.92	0.68
1:C:271:ASN:N	1:C:277:PRO:HD3	2.08	0.68
1:C:537:LYS:O	1:C:537:LYS:HD3	1.93	0.68
1:E:140:ASP:O	1:E:141:ASP:CB	2.42	0.68
1:F:267:PHE:O	1:F:268:GLU:CB	2.33	0.68
1:F:319:THR:HG23	1:F:322:ASP:H	1.59	0.68
1:F:501:VAL:CG2	1:F:576:VAL:HG11	2.22	0.68
2:J:130:VAL:CA	2:K:6:GLN:HB3	2.19	0.68
2:K:16:LEU:HD21	2:K:24:ALA:HB3	1.76	0.68
1:A:270:LEU:C	1:A:277:PRO:HD3	2.14	0.68
1:C:270:LEU:C	1:C:277:PRO:HD3	2.14	0.68
1:C:320:TRP:CD1	1:C:340:SER:CB	2.74	0.68
1:C:409:PRO:HB2	1:C:411:TYR:CZ	2.27	0.68
1:D:47:PRO:HB3	1:D:93:GLU:CG	2.23	0.68
1:D:254:ASP:O	1:D:255:LEU:HB2	1.92	0.68
1:D:320:TRP:CE2	1:D:344:VAL:HG22	2.28	0.68
1:D:409:PRO:HB2	1:D:411:TYR:CZ	2.27	0.68
1:E:32:SER:HB3	1:E:426:ILE:CB	2.21	0.68
1:E:76:TRP:O	1:E:415:VAL:HG21	1.80	0.68
1:F:338:LEU:HB3	1:F:412:MET:CE	2.24	0.68
2:G:16:LEU:HD21	2:G:24:ALA:HB3	1.76	0.68
2:G:23:MET:O	2:G:74:MET:CB	2.40	0.68
2:H:16:LEU:HD21	2:H:24:ALA:HB3	1.76	0.68
2:K:70:PHE:CB	2:L:99:ARG:CG	2.70	0.68
1:A:32:SER:HB3	1:A:426:ILE:CB	2.21	0.68
1:D:110:LYS:CB	1:D:192:SER:HB3	2.09	0.68
1:D:140:ASP:O	1:D:141:ASP:CB	2.42	0.68
1:D:464:ARG:O	1:D:465:ASN:CB	2.39	0.68
1:D:501:VAL:HG13	1:D:578:LEU:HD11	1.75	0.68
1:E:39:ILE:HB	1:E:326:LYS:HZ3	1.57	0.68
1:E:83:THR:OG1	1:E:419:GLY:HA3	1.93	0.68
1:E:121:VAL:HG22	1:E:181:LEU:HD13	1.76	0.68
1:F:140:ASP:O	1:F:141:ASP:CB	2.42	0.68
1:F:320:TRP:HZ2	1:F:344:VAL:CA	1.98	0.68
2:K:58:THR:HG22	2:K:59:GLY:H	1.59	0.68
2:L:23:MET:O	2:L:74:MET:CB	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:ASP:O	1:A:141:ASP:CB	2.42	0.68
1:B:550:VAL:HG13	1:B:551:GLN:O	1.93	0.68
1:D:121:VAL:HG22	1:D:181:LEU:HD13	1.76	0.68
1:D:407:HIS:CD2	1:D:408:VAL:O	2.47	0.68
1:E:407:HIS:CD2	1:E:408:VAL:O	2.47	0.68
1:E:504:LEU:HD23	1:E:529:ILE:HD12	1.74	0.68
2:K:23:MET:O	2:K:74:MET:CB	2.40	0.68
1:A:45:GLY:N	1:A:112:TYR:CD1	2.62	0.67
1:B:140:ASP:O	1:B:141:ASP:CB	2.42	0.67
1:B:320:TRP:CD1	1:B:340:SER:CB	2.74	0.67
1:B:338:LEU:CB	1:B:414:ALA:CB	2.66	0.67
1:D:319:THR:HG23	1:D:322:ASP:H	1.59	0.67
1:E:271:ASN:N	1:E:277:PRO:HD3	2.08	0.67
1:F:447:ILE:HA	1:F:450:ASP:OD2	1.95	0.67
2:G:129:GLU:C	2:H:6:GLN:CB	2.28	0.67
2:L:16:LEU:HD21	2:L:24:ALA:HB3	1.76	0.67
1:A:447:ILE:HA	1:A:450:ASP:OD2	1.95	0.67
1:B:175:THR:OG1	1:B:198:GLY:HA2	1.93	0.67
1:B:184:LYS:O	1:B:186:GLY:HA2	1.93	0.67
1:C:320:TRP:CE2	1:C:344:VAL:HG22	2.28	0.67
1:E:447:ILE:HA	1:E:450:ASP:OD2	1.95	0.67
1:E:537:LYS:CG	1:E:545:PHE:HD2	1.96	0.67
1:F:528:PHE:CE1	2:G:107:TYR:HB3	2.30	0.67
2:J:58:THR:HG22	2:J:59:GLY:H	1.59	0.67
2:K:128:GLU:CA	2:L:8:THR:HG22	2.21	0.67
1:B:32:SER:HB3	1:B:426:ILE:CB	2.21	0.67
1:B:407:HIS:CD2	1:B:408:VAL:O	2.47	0.67
1:C:45:GLY:N	1:C:112:TYR:CD1	2.63	0.67
1:C:407:HIS:CD2	1:C:408:VAL:O	2.47	0.67
1:D:154:PHE:CZ	1:D:199:ALA:HB2	2.20	0.67
1:D:338:LEU:HD11	1:D:414:ALA:HB2	1.57	0.67
1:F:501:VAL:HG13	1:F:578:LEU:HD11	1.75	0.67
1:B:55:ASN:ND2	1:B:58:GLN:HG2	2.06	0.67
1:B:80:PRO:CG	1:B:415:VAL:HG22	2.23	0.67
1:B:121:VAL:HG22	1:B:181:LEU:HD13	1.76	0.67
1:B:121:VAL:CG2	1:B:132:LEU:HD22	2.25	0.67
1:B:166:THR:HG21	1:B:171:HIS:O	1.86	0.67
1:B:447:ILE:HA	1:B:450:ASP:OD2	1.95	0.67
1:C:34:LYS:CG	1:C:34:LYS:O	2.43	0.67
1:C:528:PHE:HZ	2:J:107:TYR:CB	1.98	0.67
1:D:45:GLY:N	1:D:112:TYR:CD1	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:501:VAL:HG13	1:E:578:LEU:HD11	1.75	0.67
2:G:99:ARG:CG	2:L:70:PHE:CB	2.69	0.67
2:I:27:LYS:CD	2:J:95:GLN:HG3	2.23	0.67
2:J:16:LEU:HD21	2:J:24:ALA:HB3	1.76	0.67
1:A:121:VAL:CG2	1:A:132:LEU:HD22	2.25	0.67
1:A:258:GLN:C	1:A:259:THR:HG23	2.14	0.67
1:B:52:GLU:HG2	1:B:88:LEU:HD21	1.66	0.67
1:B:110:LYS:CE	1:B:113:GLY:CA	2.51	0.67
1:C:319:THR:HG23	1:C:322:ASP:H	1.59	0.67
1:C:524:ILE:HG12	2:J:107:TYR:OH	1.94	0.67
1:D:79:ASN:HB2	1:D:433:LYS:HD3	1.75	0.67
2:G:6:GLN:HB2	2:L:130:VAL:HA	1.74	0.67
1:A:319:THR:HG23	1:A:322:ASP:H	1.59	0.67
1:B:365:ILE:HG12	1:B:391:LEU:HB2	1.77	0.67
1:C:335:ILE:HG12	1:C:362:MET:HE3	1.76	0.67
1:D:121:VAL:CG2	1:D:132:LEU:HD22	2.25	0.67
1:D:271:ASN:N	1:D:277:PRO:HD3	2.08	0.67
1:E:79:ASN:HB2	1:E:433:LYS:HD3	1.75	0.67
1:E:121:VAL:CG2	1:E:132:LEU:HD22	2.25	0.67
1:E:184:LYS:O	1:E:186:GLY:HA2	1.93	0.67
1:E:338:LEU:CG	1:E:414:ALA:HB3	2.17	0.67
1:F:45:GLY:N	1:F:112:TYR:CD1	2.63	0.67
2:J:23:MET:HB3	2:J:74:MET:H	1.55	0.67
1:B:34:LYS:CG	1:B:34:LYS:O	2.43	0.67
1:B:51:TYR:HE2	1:B:62:LEU:CD1	2.05	0.67
1:B:270:LEU:C	1:B:277:PRO:HD3	2.14	0.67
1:C:47:PRO:HB3	1:C:93:GLU:CG	2.23	0.67
1:C:447:ILE:HA	1:C:450:ASP:OD2	1.95	0.67
1:D:447:ILE:HA	1:D:450:ASP:OD2	1.94	0.67
1:F:34:LYS:CG	1:F:34:LYS:O	2.43	0.67
1:F:55:ASN:ND2	1:F:58:GLN:HG2	2.06	0.67
2:H:25:HIS:CG	2:I:98:GLY:CA	2.78	0.67
1:A:34:LYS:CG	1:A:34:LYS:O	2.43	0.67
1:A:394:ASN:HD22	1:A:459:SER:HA	1.60	0.67
1:B:282:VAL:C	1:B:287:GLU:CB	2.52	0.67
1:B:319:THR:HG23	1:B:322:ASP:H	1.59	0.67
1:C:55:ASN:ND2	1:C:58:GLN:HG2	2.06	0.67
1:D:34:LYS:CG	1:D:34:LYS:O	2.43	0.67
1:E:394:ASN:HD22	1:E:459:SER:HA	1.59	0.67
2:K:24:ALA:HB2	2:K:71:VAL:HA	1.72	0.67
1:A:51:TYR:HE2	1:A:53:LEU:CD2	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:GLY:N	1:B:112:TYR:CD1	2.63	0.67
1:D:365:ILE:HG12	1:D:391:LEU:HB2	1.77	0.67
1:E:320:TRP:CE2	1:E:344:VAL:HG22	2.28	0.67
1:F:121:VAL:HG22	1:F:181:LEU:HD13	1.76	0.67
2:G:25:HIS:CG	2:H:98:GLY:CA	2.78	0.67
2:I:16:LEU:HD21	2:I:24:ALA:HB3	1.76	0.67
2:I:25:HIS:CG	2:J:98:GLY:CA	2.78	0.67
2:L:58:THR:HG22	2:L:59:GLY:H	1.59	0.67
1:B:34:LYS:HE3	1:B:85:GLY:N	2.10	0.67
1:C:79:ASN:HB2	1:C:433:LYS:HD3	1.75	0.67
1:E:34:LYS:HE3	1:E:85:GLY:N	2.10	0.67
1:E:112:TYR:CA	1:E:141:ASP:CG	2.58	0.67
1:E:338:LEU:CB	1:E:414:ALA:CB	2.66	0.67
1:E:365:ILE:HG12	1:E:391:LEU:HB2	1.77	0.67
1:E:528:PHE:HZ	2:L:107:TYR:HB3	1.58	0.67
1:F:394:ASN:HD22	1:F:459:SER:HA	1.60	0.67
2:G:128:GLU:CA	2:H:8:THR:HG22	2.21	0.67
2:I:23:MET:CB	2:I:74:MET:HA	2.24	0.67
2:J:116:ILE:HA	2:J:119:LEU:HD13	1.77	0.67
2:L:24:ALA:HB2	2:L:71:VAL:HA	1.72	0.67
1:D:114:ASN:OD1	1:D:115:VAL:N	2.28	0.66
1:F:51:TYR:HE2	1:F:53:LEU:CD2	2.08	0.66
1:A:365:ILE:HG12	1:A:391:LEU:HB2	1.77	0.66
1:C:365:ILE:HG12	1:C:391:LEU:HB2	1.77	0.66
1:D:524:ILE:CG1	2:K:107:TYR:OH	2.43	0.66
1:E:110:LYS:CE	1:E:113:GLY:CA	2.51	0.66
1:F:258:GLN:C	1:F:259:THR:HG23	2.14	0.66
2:J:70:PHE:CB	2:K:99:ARG:CG	2.69	0.66
1:B:394:ASN:HD22	1:B:459:SER:HA	1.60	0.66
1:C:114:ASN:OD1	1:C:115:VAL:N	2.28	0.66
1:D:258:GLN:C	1:D:259:THR:HG23	2.14	0.66
1:E:45:GLY:N	1:E:112:TYR:CD1	2.63	0.66
2:J:24:ALA:HB2	2:J:71:VAL:HA	1.72	0.66
1:B:44:GLY:HA2	1:B:189:GLU:CD	2.16	0.66
1:D:34:LYS:HE3	1:D:85:GLY:N	2.10	0.66
1:D:51:TYR:HE2	1:D:53:LEU:CD2	2.08	0.66
1:D:258:GLN:O	1:D:259:THR:CG2	2.44	0.66
1:E:258:GLN:C	1:E:259:THR:HG23	2.14	0.66
1:E:319:THR:HG23	1:E:322:ASP:H	1.59	0.66
1:E:338:LEU:CA	1:E:412:MET:HE3	2.25	0.66
1:F:275:GLU:O	1:F:277:PRO:CD	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:24:ALA:HB2	2:G:71:VAL:HA	1.72	0.66
2:G:58:THR:HG22	2:G:59:GLY:H	1.59	0.66
2:H:130:VAL:CG2	2:I:6:GLN:CB	2.68	0.66
2:I:58:THR:HG22	2:I:59:GLY:H	1.59	0.66
1:A:121:VAL:HG22	1:A:181:LEU:HD13	1.76	0.66
1:C:93:GLU:CB	1:C:140:ASP:CG	2.50	0.66
1:C:497:ASN:ND2	1:C:574:ILE:HG21	2.11	0.66
1:D:107:ILE:CB	1:D:193:TYR:CD2	2.69	0.66
1:D:110:LYS:CE	1:D:113:GLY:CA	2.51	0.66
1:E:497:ASN:ND2	1:E:574:ILE:HG21	2.11	0.66
2:I:23:MET:HB3	2:I:74:MET:H	1.55	0.66
2:I:116:ILE:HA	2:I:119:LEU:HD13	1.77	0.66
1:A:34:LYS:HE3	1:A:85:GLY:N	2.10	0.66
1:A:51:TYR:HE2	1:A:62:LEU:CD1	2.05	0.66
1:A:280:VAL:O	1:A:284:ALA:HB2	1.96	0.66
1:C:34:LYS:HE3	1:C:85:GLY:N	2.10	0.66
1:C:44:GLY:HA2	1:C:189:GLU:CD	2.16	0.66
1:C:51:TYR:HE2	1:C:53:LEU:CD2	2.08	0.66
1:E:258:GLN:O	1:E:259:THR:CG2	2.44	0.66
2:G:98:GLY:CA	2:L:25:HIS:CG	2.78	0.66
2:G:130:VAL:CG2	2:H:6:GLN:CB	2.68	0.66
2:I:128:GLU:N	2:J:8:THR:HG22	1.96	0.66
2:J:25:HIS:CG	2:K:98:GLY:CA	2.78	0.66
2:K:116:ILE:HA	2:K:119:LEU:HD13	1.77	0.66
1:A:80:PRO:CG	1:A:415:VAL:HG22	2.23	0.66
1:B:51:TYR:HE2	1:B:53:LEU:CD2	2.08	0.66
1:C:121:VAL:CG2	1:C:132:LEU:HD22	2.25	0.66
1:C:258:GLN:O	1:C:259:THR:CG2	2.44	0.66
1:C:275:GLU:O	1:C:277:PRO:CD	2.44	0.66
1:D:51:TYR:HE2	1:D:62:LEU:HD12	1.61	0.66
1:D:55:ASN:ND2	1:D:58:GLN:HG2	2.06	0.66
1:D:394:ASN:HD22	1:D:459:SER:HA	1.59	0.66
1:E:40:GLY:H	1:E:326:LYS:CE	2.08	0.66
1:F:32:SER:HB3	1:F:426:ILE:CB	2.21	0.66
1:F:45:GLY:CA	1:F:111:ILE:HG13	2.11	0.66
1:F:80:PRO:CG	1:F:415:VAL:HG22	2.23	0.66
1:A:497:ASN:ND2	1:A:574:ILE:HG21	2.11	0.66
1:B:518:ILE:HG13	1:B:521:SER:H	1.61	0.66
1:E:51:TYR:HE2	1:E:62:LEU:HD12	1.61	0.66
1:F:40:GLY:H	1:F:326:LYS:CE	2.08	0.66
1:F:258:GLN:O	1:F:259:THR:CG2	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:497:ASN:ND2	1:F:574:ILE:HG21	2.11	0.66
2:J:23:MET:O	2:J:74:MET:CB	2.40	0.66
1:A:45:GLY:CA	1:A:111:ILE:HG13	2.12	0.66
1:A:55:ASN:ND2	1:A:58:GLN:HG2	2.06	0.66
1:A:258:GLN:O	1:A:259:THR:CG2	2.44	0.66
1:A:275:GLU:O	1:A:277:PRO:CD	2.44	0.66
1:B:258:GLN:O	1:B:259:THR:CG2	2.44	0.66
1:C:64:ARG:H	1:C:64:ARG:CD	2.07	0.66
1:E:34:LYS:CG	1:E:34:LYS:O	2.43	0.66
1:E:80:PRO:CG	1:E:415:VAL:HG22	2.23	0.66
1:F:44:GLY:HA2	1:F:189:GLU:CD	2.16	0.66
1:F:113:GLY:HA3	1:F:143:PHE:HE1	1.61	0.66
1:F:365:ILE:HG12	1:F:391:LEU:HB2	1.77	0.66
1:F:407:HIS:O	1:F:409:PRO:HD2	1.88	0.66
1:A:44:GLY:HA2	1:A:189:GLU:CD	2.16	0.66
1:B:39:ILE:HD12	1:B:327:PHE:N	2.11	0.66
1:C:113:GLY:HA3	1:C:143:PHE:HE1	1.61	0.66
1:D:497:ASN:ND2	1:D:574:ILE:HG21	2.11	0.66
1:E:51:TYR:HE2	1:E:53:LEU:CD2	2.08	0.66
1:E:338:LEU:O	1:E:412:MET:HE2	1.95	0.66
1:F:39:ILE:HD12	1:F:327:PHE:N	2.11	0.66
1:F:528:PHE:CZ	2:G:107:TYR:HB3	2.31	0.66
2:G:70:PHE:CB	2:H:99:ARG:CG	2.69	0.66
2:K:25:HIS:CG	2:L:98:GLY:CA	2.78	0.66
2:K:130:VAL:CA	2:L:6:GLN:HB3	2.19	0.66
1:B:90:MET:O	1:B:326:LYS:HE3	1.91	0.65
1:B:114:ASN:OD1	1:B:115:VAL:N	2.28	0.65
1:C:518:ILE:HG13	1:C:521:SER:H	1.61	0.65
1:E:338:LEU:HB3	1:E:412:MET:CE	2.23	0.65
1:F:34:LYS:HE3	1:F:85:GLY:N	2.10	0.65
1:F:280:VAL:O	1:F:284:ALA:HB2	1.96	0.65
2:G:8:THR:CB	2:L:127:GLU:CA	2.75	0.65
2:K:130:VAL:CA	2:L:6:GLN:CG	2.50	0.65
1:A:107:ILE:CB	1:A:193:TYR:CD2	2.70	0.65
1:B:113:GLY:HA3	1:B:143:PHE:HE1	1.61	0.65
1:B:497:ASN:ND2	1:B:574:ILE:HG21	2.11	0.65
1:C:114:ASN:HA	1:C:137:ILE:CD1	2.24	0.65
1:D:39:ILE:HD12	1:D:327:PHE:N	2.11	0.65
1:D:80:PRO:CG	1:D:415:VAL:HG22	2.23	0.65
1:D:275:GLU:O	1:D:277:PRO:CD	2.44	0.65
1:E:39:ILE:HD12	1:E:327:PHE:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:58:THR:HG22	2:H:59:GLY:H	1.59	0.65
1:D:64:ARG:H	1:D:64:ARG:CD	2.07	0.65
1:D:132:LEU:CG	1:D:148:ASP:CA	2.55	0.65
1:D:320:TRP:HZ2	1:D:344:VAL:CA	1.98	0.65
1:F:121:VAL:CG2	1:F:132:LEU:HD22	2.25	0.65
2:G:116:ILE:HA	2:G:119:LEU:HD13	1.77	0.65
1:D:134:LEU:HA	1:D:146:VAL:HG12	1.79	0.65
2:H:130:VAL:HG22	2:I:6:GLN:HG3	1.73	0.65
2:J:68:SER:CA	2:K:102:GLU:CD	2.64	0.65
1:A:134:LEU:HA	1:A:146:VAL:HG12	1.79	0.65
1:A:370:PHE:HA	1:A:373:SER:HB2	1.78	0.65
1:B:134:LEU:HA	1:B:146:VAL:HG12	1.79	0.65
1:B:275:GLU:O	1:B:277:PRO:CD	2.44	0.65
1:B:280:VAL:O	1:B:284:ALA:HB2	1.96	0.65
1:B:363:ARG:HD3	1:B:391:LEU:HD12	1.78	0.65
1:C:90:MET:O	1:C:326:LYS:HE3	1.91	0.65
1:D:40:GLY:H	1:D:326:LYS:CE	2.08	0.65
1:E:114:ASN:OD1	1:E:115:VAL:N	2.28	0.65
1:E:512:PHE:CE1	1:E:517:THR:OG1	2.50	0.65
2:J:120:ASP:C	2:K:33:VAL:H	2.00	0.65
2:K:23:MET:HB2	2:K:74:MET:HA	1.77	0.65
1:C:39:ILE:HD12	1:C:327:PHE:N	2.11	0.65
1:C:394:ASN:HD22	1:C:459:SER:HA	1.60	0.65
1:D:282:VAL:C	1:D:287:GLU:CB	2.52	0.65
1:F:166:THR:HG23	1:F:171:HIS:C	2.15	0.65
1:A:40:GLY:H	1:A:326:LYS:CE	2.08	0.65
1:B:110:LYS:CB	1:B:190:VAL:O	2.26	0.65
1:B:512:PHE:CE1	1:B:517:THR:OG1	2.50	0.65
1:C:134:LEU:HA	1:C:146:VAL:HG12	1.79	0.65
1:D:90:MET:O	1:D:326:LYS:HE3	1.92	0.65
1:E:407:HIS:O	1:E:409:PRO:HD2	1.88	0.65
1:F:132:LEU:CG	1:F:148:ASP:CA	2.55	0.65
1:F:134:LEU:HA	1:F:146:VAL:HG12	1.79	0.65
2:G:68:SER:CA	2:H:102:GLU:CD	2.64	0.65
2:K:127:GLU:N	2:L:8:THR:HB	2.12	0.65
1:A:43:GLU:CG	1:A:67:GLU:HG3	2.27	0.65
1:B:270:LEU:HD12	1:B:270:LEU:C	2.17	0.65
1:D:280:VAL:O	1:D:284:ALA:HB2	1.96	0.65
1:E:275:GLU:O	1:E:277:PRO:CD	2.44	0.65
1:E:352:VAL:CG1	1:E:362:MET:CG	2.31	0.65
1:F:55:ASN:HB2	1:F:58:GLN:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:537:LYS:CG	1:F:545:PHE:HD2	1.96	0.65
2:H:68:SER:HB2	2:I:102:GLU:OE2	1.97	0.65
2:J:127:GLU:N	2:K:8:THR:HB	2.12	0.65
1:A:518:ILE:HG13	1:A:521:SER:H	1.61	0.65
1:B:387:PRO:CG	1:B:390:SER:CB	2.42	0.65
1:C:363:ARG:HD3	1:C:391:LEU:HD12	1.78	0.65
1:D:36:PHE:HZ	1:D:419:GLY:HA2	1.60	0.65
1:D:43:GLU:CG	1:D:67:GLU:HG3	2.27	0.65
1:D:44:GLY:HA2	1:D:189:GLU:CD	2.16	0.65
1:E:134:LEU:HA	1:E:146:VAL:HG12	1.79	0.65
1:E:170:GLU:HB2	1:E:286:GLU:O	1.97	0.65
2:H:128:GLU:CA	2:I:8:THR:HG22	2.21	0.65
1:A:39:ILE:HD12	1:A:327:PHE:N	2.11	0.65
1:B:370:PHE:HA	1:B:373:SER:HB2	1.78	0.65
1:C:36:PHE:HZ	1:C:419:GLY:HA2	1.60	0.65
1:C:51:TYR:HE2	1:C:62:LEU:HD12	1.61	0.65
1:C:270:LEU:HD12	1:C:270:LEU:C	2.17	0.65
1:C:541:GLU:C	1:C:568:ILE:HG13	2.18	0.65
1:D:32:SER:OG	1:D:426:ILE:CG2	2.45	0.65
1:D:512:PHE:CE1	1:D:517:THR:OG1	2.50	0.65
1:E:43:GLU:CG	1:E:67:GLU:HG3	2.27	0.65
1:E:45:GLY:CA	1:E:111:ILE:HG13	2.12	0.65
1:E:64:ARG:H	1:E:64:ARG:CD	2.07	0.65
1:F:51:TYR:HE2	1:F:62:LEU:HD12	1.61	0.65
2:I:127:GLU:CA	2:J:8:THR:CB	2.75	0.65
2:K:25:HIS:CG	2:L:98:GLY:C	2.70	0.65
2:K:68:SER:CA	2:L:102:GLU:CD	2.64	0.65
1:A:353:LYS:O	1:A:360:GLU:HG3	1.98	0.64
1:B:47:PRO:CB	1:B:93:GLU:CD	2.37	0.64
1:B:170:GLU:HB2	1:B:286:GLU:O	1.97	0.64
1:B:277:PRO:HA	1:B:282:VAL:CG2	2.27	0.64
1:C:387:PRO:HB2	1:C:389:VAL:HG22	1.79	0.64
1:C:512:PHE:CE1	1:C:517:THR:OG1	2.50	0.64
1:D:92:ILE:CG1	1:D:326:LYS:CD	2.73	0.64
1:D:270:LEU:HD12	1:D:270:LEU:C	2.17	0.64
1:D:541:GLU:C	1:D:568:ILE:HG13	2.18	0.64
1:E:44:GLY:HA2	1:E:189:GLU:CD	2.16	0.64
1:E:280:VAL:O	1:E:284:ALA:HB2	1.96	0.64
1:E:541:GLU:C	1:E:568:ILE:HG13	2.18	0.64
1:F:170:GLU:HB2	1:F:286:GLU:O	1.97	0.64
2:J:68:SER:HB2	2:K:102:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ASN:HB2	1:A:58:GLN:HG2	1.79	0.64
1:A:363:ARG:HD3	1:A:391:LEU:HD12	1.78	0.64
1:B:166:THR:HG23	1:B:171:HIS:C	2.15	0.64
1:B:541:GLU:C	1:B:568:ILE:HG13	2.18	0.64
1:C:55:ASN:HB2	1:C:58:GLN:HG2	1.79	0.64
1:C:370:PHE:HA	1:C:373:SER:HB2	1.78	0.64
2:I:68:SER:HB2	2:J:102:GLU:OE2	1.97	0.64
1:A:170:GLU:HB2	1:A:286:GLU:O	1.97	0.64
1:A:363:ARG:CG	1:A:391:LEU:HD12	2.27	0.64
1:A:491:MET:C	1:A:493:VAL:HG21	2.18	0.64
1:A:512:PHE:CE1	1:A:517:THR:OG1	2.50	0.64
1:C:170:GLU:HB2	1:C:286:GLU:O	1.97	0.64
1:C:280:VAL:O	1:C:284:ALA:HB2	1.96	0.64
1:C:353:LYS:O	1:C:360:GLU:HG3	1.98	0.64
1:D:55:ASN:HB2	1:D:58:GLN:HG2	1.78	0.64
1:D:387:PRO:HB2	1:D:389:VAL:HG22	1.79	0.64
1:D:518:ILE:HG13	1:D:521:SER:H	1.61	0.64
1:E:270:LEU:HD12	1:E:270:LEU:C	2.17	0.64
1:E:353:LYS:O	1:E:360:GLU:HG3	1.98	0.64
1:E:363:ARG:HD3	1:E:391:LEU:HD12	1.78	0.64
1:E:370:PHE:HA	1:E:373:SER:HB2	1.78	0.64
1:E:512:PHE:HE1	1:E:517:THR:HG1	1.45	0.64
1:F:277:PRO:HA	1:F:282:VAL:CG2	2.27	0.64
2:H:116:ILE:HA	2:H:119:LEU:HD13	1.77	0.64
2:K:68:SER:HB2	2:L:102:GLU:OE2	1.97	0.64
2:K:71:VAL:HG13	2:L:98:GLY:CA	2.27	0.64
2:L:23:MET:CB	2:L:74:MET:HA	2.24	0.64
2:L:116:ILE:HA	2:L:119:LEU:HD13	1.77	0.64
1:A:270:LEU:HD12	1:A:270:LEU:C	2.17	0.64
1:B:387:PRO:HB2	1:B:389:VAL:HG22	1.79	0.64
1:D:277:PRO:HA	1:D:282:VAL:CG2	2.27	0.64
1:D:353:LYS:O	1:D:360:GLU:HG3	1.98	0.64
1:D:363:ARG:HD3	1:D:391:LEU:HD12	1.78	0.64
1:E:111:ILE:HD12	1:E:112:TYR:CE1	2.33	0.64
1:F:43:GLU:CG	1:F:67:GLU:HG3	2.27	0.64
2:G:98:GLY:C	2:L:25:HIS:CG	2.70	0.64
2:H:120:ASP:C	2:I:33:VAL:H	2.00	0.64
2:I:70:PHE:CB	2:J:99:ARG:CG	2.69	0.64
1:A:111:ILE:HD12	1:A:112:TYR:CE1	2.33	0.64
1:A:277:PRO:HA	1:A:282:VAL:CG2	2.27	0.64
1:B:111:ILE:HD12	1:B:112:TYR:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HB3	1:B:412:MET:HE2	1.79	0.64
1:B:363:ARG:CG	1:B:391:LEU:HD12	2.27	0.64
1:D:170:GLU:HB2	1:D:286:GLU:O	1.97	0.64
1:E:491:MET:C	1:E:493:VAL:HG21	2.18	0.64
1:F:363:ARG:CG	1:F:391:LEU:HD12	2.27	0.64
1:F:512:PHE:CE1	1:F:517:THR:OG1	2.50	0.64
2:G:8:THR:HB	2:L:127:GLU:N	2.12	0.64
2:G:127:GLU:CA	2:H:8:THR:CB	2.75	0.64
2:K:130:VAL:HA	2:L:6:GLN:HB2	1.74	0.64
1:A:336:VAL:HG13	1:A:415:VAL:HA	1.79	0.64
1:A:550:VAL:HG11	1:A:556:GLY:HA2	1.79	0.64
1:B:32:SER:OG	1:B:426:ILE:CG2	2.45	0.64
1:B:43:GLU:CG	1:B:67:GLU:HG3	2.27	0.64
1:B:114:ASN:HA	1:B:137:ILE:CD1	2.24	0.64
1:B:336:VAL:HG13	1:B:415:VAL:HA	1.79	0.64
1:C:252:PHE:CE2	1:C:257:LYS:CA	2.81	0.64
1:F:270:LEU:HD12	1:F:270:LEU:C	2.17	0.64
1:F:387:PRO:HB2	1:F:389:VAL:HG22	1.79	0.64
1:F:518:ILE:HG13	1:F:521:SER:H	1.61	0.64
2:G:120:ASP:C	2:H:33:VAL:H	2.00	0.64
2:H:70:PHE:CB	2:I:99:ARG:CG	2.70	0.64
2:H:127:GLU:N	2:I:8:THR:HB	2.12	0.64
2:I:127:GLU:N	2:J:8:THR:HB	2.12	0.64
1:A:114:ASN:OD1	1:A:115:VAL:N	2.28	0.64
1:A:327:PHE:HE2	1:A:351:PHE:HB2	1.63	0.64
1:C:40:GLY:H	1:C:326:LYS:CE	2.08	0.64
1:C:43:GLU:CG	1:C:67:GLU:HG3	2.27	0.64
1:C:110:LYS:CE	1:C:113:GLY:CA	2.51	0.64
1:C:277:PRO:HA	1:C:282:VAL:CG2	2.27	0.64
1:D:174:GLU:C	1:D:175:THR:HG1	2.01	0.64
1:E:113:GLY:HA3	1:E:143:PHE:HE1	1.61	0.64
1:F:114:ASN:OD1	1:F:115:VAL:N	2.28	0.64
1:F:353:LYS:O	1:F:360:GLU:HG3	1.98	0.64
2:G:17:PHE:C	2:G:74:MET:CE	2.61	0.64
2:G:25:HIS:CG	2:H:98:GLY:C	2.70	0.64
1:A:252:PHE:CD2	1:A:257:LYS:CA	2.80	0.64
1:A:541:GLU:C	1:A:568:ILE:HG13	2.18	0.64
1:B:40:GLY:H	1:B:326:LYS:CE	2.08	0.64
1:C:363:ARG:CG	1:C:391:LEU:HD12	2.27	0.64
1:E:51:TYR:CE2	1:E:62:LEU:HD12	2.33	0.64
1:E:518:ILE:HG13	1:E:521:SER:H	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:363:ARG:HD3	1:F:391:LEU:HD12	1.78	0.64
1:F:370:PHE:HA	1:F:373:SER:HB2	1.78	0.64
2:H:25:HIS:CG	2:I:98:GLY:C	2.70	0.64
2:I:18:LEU:HB2	2:I:74:MET:HE3	1.79	0.64
2:I:120:ASP:C	2:J:33:VAL:H	2.00	0.64
1:A:39:ILE:CD1	1:A:327:PHE:N	2.61	0.64
1:C:76:TRP:CD1	1:C:339:SER:HB3	2.33	0.64
1:D:76:TRP:CD1	1:D:339:SER:HB3	2.33	0.64
1:D:252:PHE:CE2	1:D:257:LYS:CA	2.81	0.64
1:D:336:VAL:HG13	1:D:415:VAL:HA	1.79	0.64
1:E:336:VAL:HG13	1:E:415:VAL:HA	1.79	0.64
1:F:39:ILE:CD1	1:F:327:PHE:N	2.61	0.64
1:F:51:TYR:HE2	1:F:62:LEU:CD1	2.05	0.64
1:F:253:GLY:O	1:F:254:ASP:HB2	1.98	0.64
1:A:117:ASN:OD1	1:A:187:ASP:OD1	2.06	0.64
1:A:166:THR:HG22	1:A:172:ASP:CB	2.28	0.64
1:B:51:TYR:HE2	1:B:62:LEU:HD12	1.61	0.64
1:B:353:LYS:O	1:B:360:GLU:HG3	1.98	0.64
1:B:437:VAL:HG23	1:B:462:PHE:CZ	2.32	0.64
1:C:32:SER:OG	1:C:426:ILE:CG2	2.45	0.64
1:C:113:GLY:CA	1:C:189:GLU:HB2	2.23	0.64
1:D:550:VAL:HG11	1:D:556:GLY:HA2	1.79	0.64
1:E:253:GLY:O	1:E:254:ASP:HB2	1.98	0.64
1:F:32:SER:OG	1:F:426:ILE:CG2	2.45	0.64
1:F:93:GLU:CB	1:F:140:ASP:CG	2.50	0.64
2:J:76:ASP:HA	2:J:79:LYS:CD	2.28	0.64
2:L:17:PHE:C	2:L:74:MET:CE	2.60	0.64
1:A:532:TYR:CZ	1:A:536:LYS:CE	2.81	0.63
1:B:39:ILE:CD1	1:B:327:PHE:N	2.61	0.63
1:B:491:MET:C	1:B:493:VAL:HG21	2.18	0.63
1:B:524:ILE:HG12	2:I:107:TYR:CZ	2.33	0.63
1:D:114:ASN:HA	1:D:137:ILE:CD1	2.24	0.63
1:D:252:PHE:CD2	1:D:257:LYS:CA	2.80	0.63
1:E:55:ASN:HB2	1:E:58:GLN:HG2	1.79	0.63
1:E:363:ARG:CG	1:E:391:LEU:HD12	2.27	0.63
1:F:112:TYR:CA	1:F:141:ASP:CG	2.58	0.63
1:F:252:PHE:CE2	1:F:257:LYS:CA	2.81	0.63
2:G:98:GLY:CA	2:L:71:VAL:HG13	2.27	0.63
2:I:25:HIS:CG	2:J:98:GLY:C	2.70	0.63
2:J:25:HIS:CG	2:K:98:GLY:C	2.70	0.63
2:J:128:GLU:N	2:K:8:THR:HG22	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:16:LEU:O	2:K:74:MET:HE2	1.97	0.63
1:A:51:TYR:HE2	1:A:62:LEU:HD12	1.61	0.63
1:A:252:PHE:CE2	1:A:257:LYS:CA	2.81	0.63
1:B:55:ASN:HB2	1:B:58:GLN:HG2	1.79	0.63
1:B:252:PHE:CE2	1:B:257:LYS:CA	2.81	0.63
1:C:45:GLY:HA2	1:C:111:ILE:HD12	1.80	0.63
1:C:111:ILE:HD12	1:C:112:TYR:CE1	2.33	0.63
1:D:111:ILE:HD12	1:D:112:TYR:CE1	2.33	0.63
1:E:32:SER:OG	1:E:426:ILE:CG2	2.45	0.63
1:E:132:LEU:CG	1:E:148:ASP:CA	2.55	0.63
2:J:71:VAL:HG13	2:K:98:GLY:CA	2.27	0.63
1:A:45:GLY:HA2	1:A:111:ILE:HD12	1.80	0.63
1:B:253:GLY:O	1:B:254:ASP:HB2	1.98	0.63
1:C:51:TYR:CE2	1:C:62:LEU:HD12	2.33	0.63
1:D:370:PHE:HA	1:D:373:SER:HB2	1.78	0.63
1:D:491:MET:C	1:D:493:VAL:HG21	2.18	0.63
1:E:76:TRP:CD1	1:E:339:SER:HB3	2.33	0.63
1:F:111:ILE:HD12	1:F:112:TYR:CE1	2.33	0.63
1:F:437:VAL:HG23	1:F:462:PHE:CZ	2.32	0.63
1:F:541:GLU:C	1:F:568:ILE:HG13	2.18	0.63
2:G:33:VAL:H	2:L:120:ASP:C	2.00	0.63
2:G:102:GLU:OE2	2:L:68:SER:HB2	1.97	0.63
1:A:110:LYS:CE	1:A:113:GLY:CA	2.51	0.63
1:A:543:GLN:NE2	1:A:568:ILE:CG2	2.49	0.63
1:B:76:TRP:CD1	1:B:339:SER:HB3	2.33	0.63
1:B:449:LEU:HA	1:B:452:LEU:HG	1.81	0.63
1:B:550:VAL:HG11	1:B:556:GLY:HA2	1.79	0.63
1:C:45:GLY:HA2	1:C:112:TYR:CE1	2.33	0.63
1:C:491:MET:C	1:C:493:VAL:HG21	2.18	0.63
1:D:45:GLY:CA	1:D:111:ILE:HG13	2.12	0.63
1:E:277:PRO:HA	1:E:282:VAL:CG2	2.27	0.63
1:E:338:LEU:HD11	1:E:414:ALA:HB2	1.57	0.63
1:F:76:TRP:CD1	1:F:339:SER:HB3	2.33	0.63
2:G:6:GLN:HG3	2:L:130:VAL:HG22	1.73	0.63
2:G:76:ASP:HA	2:G:79:LYS:CD	2.28	0.63
2:G:127:GLU:N	2:H:8:THR:HB	2.12	0.63
1:A:253:GLY:O	1:A:254:ASP:HB2	1.98	0.63
1:B:532:TYR:CE2	1:B:536:LYS:HE2	2.34	0.63
1:C:338:LEU:HD11	1:C:414:ALA:HB2	1.57	0.63
1:E:51:TYR:CE2	1:E:53:LEU:CD2	2.82	0.63
1:E:107:ILE:CB	1:E:193:TYR:CD2	2.69	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:327:PHE:HE2	1:E:351:PHE:HB2	1.63	0.63
1:F:449:LEU:HA	1:F:452:LEU:HG	1.81	0.63
2:H:76:ASP:HA	2:H:79:LYS:CD	2.28	0.63
2:H:127:GLU:CA	2:I:8:THR:CB	2.75	0.63
2:I:29:PHE:HB2	2:I:61:ALA:HB2	1.81	0.63
2:I:76:ASP:HA	2:I:79:LYS:CD	2.28	0.63
2:K:120:ASP:C	2:L:33:VAL:H	2.00	0.63
1:A:437:VAL:HG23	1:A:462:PHE:CZ	2.32	0.63
1:B:166:THR:HG22	1:B:172:ASP:CB	2.28	0.63
1:B:532:TYR:CZ	1:B:536:LYS:CE	2.81	0.63
1:C:327:PHE:HE2	1:C:351:PHE:HB2	1.63	0.63
1:C:336:VAL:HG13	1:C:415:VAL:HA	1.79	0.63
1:C:532:TYR:CE2	1:C:536:LYS:HE2	2.34	0.63
1:E:252:PHE:CE2	1:E:257:LYS:CA	2.81	0.63
1:E:437:VAL:HG23	1:E:462:PHE:CZ	2.33	0.63
1:F:491:MET:C	1:F:493:VAL:HG21	2.18	0.63
2:G:29:PHE:HB2	2:G:61:ALA:HB2	1.81	0.63
2:H:128:GLU:CA	2:I:8:THR:HG21	2.26	0.63
2:I:23:MET:O	2:I:74:MET:CB	2.40	0.63
1:A:112:TYR:CA	1:A:141:ASP:CG	2.58	0.63
1:A:449:LEU:HA	1:A:452:LEU:HG	1.81	0.63
1:C:166:THR:HG22	1:C:172:ASP:CB	2.29	0.63
1:D:366:VAL:O	1:D:392:VAL:HA	1.99	0.63
2:H:29:PHE:HB2	2:H:61:ALA:HB2	1.81	0.63
1:A:92:ILE:CG1	1:A:326:LYS:CD	2.73	0.63
1:A:387:PRO:HB2	1:A:389:VAL:HG22	1.79	0.63
1:B:45:GLY:HA2	1:B:112:TYR:CE1	2.34	0.63
1:B:51:TYR:CE2	1:B:53:LEU:CD2	2.82	0.63
1:B:449:LEU:O	1:B:452:LEU:HG	1.99	0.63
1:C:51:TYR:CE2	1:C:53:LEU:CD2	2.82	0.63
1:C:526:LYS:HE3	1:C:546:PRO:HG2	1.81	0.63
1:C:532:TYR:CZ	1:C:536:LYS:CE	2.81	0.63
1:C:550:VAL:HG11	1:C:556:GLY:HA2	1.79	0.63
1:D:264:ILE:CG2	1:D:269:GLN:HB3	2.16	0.63
1:D:437:VAL:HG21	1:D:462:PHE:HZ	1.64	0.63
1:E:320:TRP:HH2	1:E:347:GLU:CG	2.11	0.63
1:E:437:VAL:HG21	1:E:462:PHE:HZ	1.64	0.63
1:F:336:VAL:HG13	1:F:415:VAL:HA	1.79	0.63
2:G:68:SER:HB2	2:H:102:GLU:OE2	1.97	0.63
2:K:76:ASP:HA	2:K:79:LYS:CD	2.28	0.63
2:K:128:GLU:CA	2:L:8:THR:HG21	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:LYS:HB2	1:A:422:SER:HA	1.81	0.63
1:A:532:TYR:OH	1:A:536:LYS:HE2	1.99	0.63
1:C:252:PHE:CD2	1:C:257:LYS:CA	2.80	0.63
1:C:437:VAL:HG21	1:C:462:PHE:HZ	1.64	0.63
1:D:39:ILE:CD1	1:D:327:PHE:N	2.61	0.63
1:D:51:TYR:CE2	1:D:53:LEU:CD2	2.82	0.63
1:D:93:GLU:CB	1:D:140:ASP:CG	2.50	0.63
1:D:526:LYS:HE3	1:D:546:PRO:HG2	1.81	0.63
1:D:532:TYR:CE2	1:D:536:LYS:HE2	2.34	0.63
1:E:36:PHE:HZ	1:E:419:GLY:HA2	1.60	0.63
1:E:550:VAL:HG11	1:E:556:GLY:HA2	1.79	0.63
1:F:45:GLY:HA2	1:F:111:ILE:HD12	1.80	0.63
1:F:320:TRP:HZ2	1:F:344:VAL:HA	1.50	0.63
2:I:23:MET:HA	2:I:70:PHE:CD1	2.34	0.63
2:J:16:LEU:O	2:J:74:MET:HE2	1.99	0.63
2:K:17:PHE:C	2:K:74:MET:CE	2.60	0.63
2:L:29:PHE:HB2	2:L:61:ALA:HB2	1.81	0.63
1:A:449:LEU:O	1:A:452:LEU:HG	1.99	0.62
1:A:532:TYR:CE2	1:A:536:LYS:HE2	2.34	0.62
1:D:363:ARG:CG	1:D:391:LEU:HD12	2.27	0.62
1:E:366:VAL:O	1:E:392:VAL:HA	1.99	0.62
1:F:34:LYS:HB2	1:F:422:SER:HA	1.81	0.62
2:H:23:MET:HA	2:H:70:PHE:CD1	2.34	0.62
1:A:76:TRP:CD1	1:A:339:SER:HB3	2.33	0.62
1:A:114:ASN:HA	1:A:137:ILE:CD1	2.24	0.62
1:A:537:LYS:CG	1:A:545:PHE:HD2	1.96	0.62
1:B:320:TRP:HZ2	1:B:344:VAL:N	1.89	0.62
1:D:45:GLY:HA2	1:D:111:ILE:HD12	1.80	0.62
1:D:45:GLY:HA2	1:D:112:TYR:CE1	2.34	0.62
1:F:532:TYR:CE2	1:F:536:LYS:HE2	2.34	0.62
2:G:18:LEU:HB2	2:G:74:MET:HE3	1.81	0.62
2:G:23:MET:HA	2:G:70:PHE:CD1	2.34	0.62
2:K:29:PHE:HB2	2:K:61:ALA:HB2	1.81	0.62
2:L:76:ASP:HA	2:L:79:LYS:CD	2.28	0.62
1:A:32:SER:OG	1:A:426:ILE:CG2	2.45	0.62
1:B:34:LYS:HB2	1:B:422:SER:HA	1.81	0.62
1:B:327:PHE:HE2	1:B:351:PHE:HB2	1.63	0.62
1:C:338:LEU:CB	1:C:414:ALA:CB	2.66	0.62
1:D:34:LYS:CB	1:D:422:SER:CA	2.77	0.62
1:F:166:THR:HG22	1:F:172:ASP:CB	2.28	0.62
2:G:102:GLU:CD	2:L:68:SER:CA	2.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:29:PHE:HB2	2:J:61:ALA:HB2	1.81	0.62
2:K:23:MET:CB	2:K:74:MET:HA	2.24	0.62
1:A:136:VAL:HB	1:A:145:GLU:HB3	1.81	0.62
1:A:320:TRP:HZ2	1:A:344:VAL:CA	1.97	0.62
1:B:45:GLY:HA2	1:B:111:ILE:HD12	1.80	0.62
1:B:252:PHE:CD2	1:B:257:LYS:CA	2.80	0.62
1:B:366:VAL:O	1:B:392:VAL:HA	1.99	0.62
1:C:32:SER:HB3	1:C:426:ILE:CB	2.21	0.62
1:D:320:TRP:HH2	1:D:347:GLU:CG	2.11	0.62
1:E:45:GLY:HA2	1:E:112:TYR:CE1	2.34	0.62
1:E:82:TYR:HE2	1:E:433:LYS:HD2	1.65	0.62
1:E:387:PRO:HB2	1:E:389:VAL:HG22	1.79	0.62
1:E:532:TYR:CE2	1:E:536:LYS:HE2	2.34	0.62
1:F:550:VAL:HG11	1:F:556:GLY:HA2	1.79	0.62
2:I:24:ALA:HB2	2:I:71:VAL:HA	1.72	0.62
2:J:23:MET:HA	2:J:70:PHE:CD1	2.34	0.62
1:A:36:PHE:CD1	1:A:334:TYR:HB2	2.35	0.62
1:A:320:TRP:HZ2	1:A:344:VAL:N	1.89	0.62
1:B:36:PHE:HZ	1:B:419:GLY:HA2	1.60	0.62
1:C:39:ILE:CD1	1:C:327:PHE:N	2.61	0.62
1:C:253:GLY:O	1:C:254:ASP:HB2	1.98	0.62
1:C:449:LEU:HA	1:C:452:LEU:HG	1.81	0.62
1:D:112:TYR:CA	1:D:141:ASP:CG	2.58	0.62
1:E:93:GLU:OE1	1:E:140:ASP:CB	2.47	0.62
1:E:114:ASN:HA	1:E:137:ILE:CD1	2.24	0.62
1:F:110:LYS:CE	1:F:113:GLY:CA	2.51	0.62
1:F:136:VAL:HB	1:F:145:GLU:HB3	1.81	0.62
1:F:338:LEU:CB	1:F:412:MET:HE2	2.29	0.62
1:F:524:ILE:HG12	2:G:107:TYR:CE2	2.35	0.62
2:G:16:LEU:O	2:G:74:MET:HE2	2.00	0.62
2:H:68:SER:CA	2:I:102:GLU:CD	2.64	0.62
2:I:130:VAL:CG2	2:J:6:GLN:HG2	2.18	0.62
1:A:34:LYS:CB	1:A:422:SER:CA	2.77	0.62
1:B:36:PHE:CD1	1:B:334:TYR:HB2	2.35	0.62
1:B:526:LYS:HE3	1:B:546:PRO:HG2	1.81	0.62
1:D:437:VAL:HG23	1:D:462:PHE:CZ	2.33	0.62
1:F:36:PHE:CD1	1:F:334:TYR:HB2	2.35	0.62
2:G:23:MET:CB	2:G:74:MET:HA	2.24	0.62
2:G:130:VAL:HG22	2:H:6:GLN:HG3	1.73	0.62
1:A:36:PHE:CE1	1:A:422:SER:HB3	2.35	0.62
1:A:320:TRP:HE1	1:A:344:VAL:CG2	1.71	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:36:PHE:CE1	1:C:422:SER:HB3	2.35	0.62
1:C:366:VAL:O	1:C:392:VAL:HA	1.99	0.62
1:C:449:LEU:O	1:C:452:LEU:HG	1.99	0.62
1:D:82:TYR:HE2	1:D:433:LYS:HD2	1.65	0.62
1:D:543:GLN:NE2	1:D:568:ILE:CG2	2.49	0.62
1:E:36:PHE:CD1	1:E:334:TYR:HB2	2.35	0.62
1:E:45:GLY:HA2	1:E:111:ILE:HD12	1.80	0.62
1:F:51:TYR:CE2	1:F:53:LEU:CD2	2.82	0.62
1:F:327:PHE:HE2	1:F:351:PHE:HB2	1.63	0.62
1:F:437:VAL:HG21	1:F:462:PHE:HZ	1.64	0.62
1:A:282:VAL:C	1:A:287:GLU:CB	2.52	0.62
1:B:34:LYS:HE3	1:B:85:GLY:H	1.65	0.62
1:B:36:PHE:CE1	1:B:422:SER:HB3	2.35	0.62
1:E:452:LEU:HB2	1:E:457:ILE:HG21	1.82	0.62
1:E:526:LYS:HE3	1:E:546:PRO:HG2	1.81	0.62
2:G:71:VAL:HG13	2:H:98:GLY:CA	2.27	0.62
2:J:130:VAL:HA	2:K:6:GLN:HB2	1.74	0.62
1:A:34:LYS:HE3	1:A:85:GLY:H	1.65	0.62
1:A:366:VAL:O	1:A:392:VAL:HA	1.99	0.62
1:B:437:VAL:HG21	1:B:462:PHE:HZ	1.64	0.62
1:B:532:TYR:OH	1:B:536:LYS:HE2	1.99	0.62
1:D:253:GLY:O	1:D:254:ASP:HB2	1.98	0.62
1:D:449:LEU:O	1:D:452:LEU:HG	1.99	0.62
1:E:34:LYS:HB2	1:E:422:SER:HA	1.81	0.62
1:E:39:ILE:CD1	1:E:327:PHE:N	2.61	0.62
1:E:449:LEU:HA	1:E:452:LEU:HG	1.81	0.62
1:F:45:GLY:HA2	1:F:112:TYR:CE1	2.34	0.62
1:F:523:SER:O	1:F:524:ILE:HB	2.00	0.62
2:I:71:VAL:HG13	2:J:98:GLY:CA	2.27	0.62
1:A:45:GLY:HA2	1:A:112:TYR:CE1	2.34	0.62
1:B:136:VAL:HB	1:B:145:GLU:HB3	1.81	0.62
1:C:166:THR:HG23	1:C:171:HIS:C	2.15	0.62
1:E:394:ASN:ND2	1:E:459:SER:HA	2.15	0.62
1:E:523:SER:O	1:E:524:ILE:HB	2.00	0.62
1:F:264:ILE:CD1	1:F:269:GLN:HB2	2.16	0.62
2:J:23:MET:HB2	2:J:74:MET:HA	1.77	0.62
1:A:93:GLU:OE1	1:A:140:ASP:CB	2.47	0.61
1:A:113:GLY:HA3	1:A:143:PHE:HE1	1.61	0.61
1:B:93:GLU:OE1	1:B:140:ASP:CB	2.47	0.61
1:B:352:VAL:HG21	1:B:364:ALA:HB2	1.82	0.61
1:C:36:PHE:CD1	1:C:334:TYR:HB2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:320:TRP:HH2	1:C:347:GLU:CG	2.11	0.61
1:D:34:LYS:CB	1:D:422:SER:HA	2.30	0.61
1:D:93:GLU:OE1	1:D:140:ASP:CB	2.47	0.61
1:F:64:ARG:H	1:F:64:ARG:CD	2.07	0.61
1:A:523:SER:O	1:A:524:ILE:HB	2.00	0.61
1:B:264:ILE:HD11	1:B:266:SER:HB3	1.82	0.61
1:B:543:GLN:NE2	1:B:568:ILE:CG2	2.49	0.61
1:D:36:PHE:CE1	1:D:422:SER:HB3	2.35	0.61
1:D:51:TYR:CE2	1:D:62:LEU:HD12	2.33	0.61
1:D:113:GLY:HA3	1:D:143:PHE:HE1	1.61	0.61
1:E:136:VAL:HB	1:E:145:GLU:HB3	1.81	0.61
1:E:270:LEU:C	1:E:277:PRO:CD	2.69	0.61
1:F:52:GLU:CG	1:F:88:LEU:HD23	2.16	0.61
1:F:82:TYR:HE2	1:F:433:LYS:HD2	1.65	0.61
1:F:366:VAL:O	1:F:392:VAL:HA	1.99	0.61
1:F:394:ASN:ND2	1:F:459:SER:HA	2.15	0.61
2:G:69:LYS:N	2:H:102:GLU:OE2	2.33	0.61
2:L:23:MET:HA	2:L:70:PHE:CD1	2.34	0.61
1:A:166:THR:HG23	1:A:171:HIS:C	2.16	0.61
1:C:34:LYS:HB2	1:C:422:SER:HA	1.81	0.61
1:D:36:PHE:CD1	1:D:334:TYR:HB2	2.35	0.61
1:E:38:LEU:CD1	1:E:76:TRP:CZ2	2.76	0.61
2:K:69:LYS:N	2:L:102:GLU:OE2	2.33	0.61
1:A:320:TRP:HH2	1:A:347:GLU:CG	2.11	0.61
1:B:34:LYS:CB	1:B:422:SER:CA	2.77	0.61
1:B:132:LEU:CG	1:B:148:ASP:CA	2.55	0.61
1:C:352:VAL:HG21	1:C:364:ALA:HB2	1.82	0.61
1:D:449:LEU:HA	1:D:452:LEU:HG	1.81	0.61
1:E:55:ASN:ND2	1:E:58:GLN:HG2	2.06	0.61
1:E:352:VAL:HG21	1:E:364:ALA:HB2	1.82	0.61
1:F:34:LYS:CB	1:F:422:SER:HA	2.31	0.61
1:F:34:LYS:CB	1:F:422:SER:CA	2.77	0.61
1:F:36:PHE:CE1	1:F:422:SER:HB3	2.35	0.61
1:F:320:TRP:HH2	1:F:347:GLU:CG	2.11	0.61
1:F:352:VAL:HG21	1:F:364:ALA:HB2	1.82	0.61
1:F:449:LEU:O	1:F:452:LEU:HG	1.99	0.61
2:J:71:VAL:CB	2:K:98:GLY:HA3	2.30	0.61
2:K:23:MET:HA	2:K:70:PHE:CD1	2.34	0.61
1:A:34:LYS:CB	1:A:422:SER:HA	2.30	0.61
1:B:82:TYR:HE2	1:B:433:LYS:HD2	1.65	0.61
1:C:34:LYS:CB	1:C:422:SER:HA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:34:LYS:HE3	1:C:85:GLY:H	1.65	0.61
1:C:338:LEU:HB2	1:C:414:ALA:CB	2.16	0.61
1:D:352:VAL:HG11	1:D:362:MET:HG3	1.77	0.61
1:D:394:ASN:ND2	1:D:459:SER:HA	2.15	0.61
1:D:523:SER:O	1:D:524:ILE:HB	2.00	0.61
1:E:282:VAL:C	1:E:287:GLU:CB	2.52	0.61
1:F:270:LEU:C	1:F:277:PRO:CD	2.69	0.61
2:G:102:GLU:OE2	2:L:69:LYS:N	2.33	0.61
2:I:69:LYS:N	2:J:102:GLU:OE2	2.33	0.61
1:A:82:TYR:HE2	1:A:433:LYS:HD2	1.65	0.61
1:A:119:ILE:HB	1:A:132:LEU:HB2	1.83	0.61
1:B:338:LEU:HD11	1:B:414:ALA:HB2	1.57	0.61
1:B:528:PHE:HZ	2:I:107:TYR:HB3	1.63	0.61
1:D:112:TYR:C	1:D:141:ASP:CB	2.67	0.61
1:D:338:LEU:HB3	1:D:412:MET:CE	2.24	0.61
1:E:449:LEU:O	1:E:452:LEU:HG	1.99	0.61
1:E:452:LEU:O	1:E:455:ASN:HB3	2.01	0.61
1:F:113:GLY:CA	1:F:189:GLU:HB2	2.23	0.61
1:F:428:GLU:O	1:F:428:GLU:HG2	2.00	0.61
1:F:452:LEU:HB2	1:F:457:ILE:HG21	1.82	0.61
1:F:526:LYS:HE3	1:F:546:PRO:HG2	1.81	0.61
2:H:69:LYS:N	2:I:102:GLU:OE2	2.33	0.61
2:H:71:VAL:HG13	2:I:98:GLY:CA	2.27	0.61
2:J:69:LYS:N	2:K:102:GLU:OE2	2.33	0.61
1:A:60:LYS:HA	1:A:64:ARG:CA	2.31	0.61
1:B:560:ARG:HB2	1:B:579:VAL:HG12	1.83	0.61
1:F:34:LYS:HE3	1:F:85:GLY:H	1.65	0.61
1:A:264:ILE:HD11	1:A:266:SER:HB3	1.82	0.61
1:A:428:GLU:O	1:A:428:GLU:HG2	2.00	0.61
1:A:526:LYS:HE3	1:A:546:PRO:HG2	1.81	0.61
1:B:60:LYS:HA	1:B:64:ARG:CA	2.31	0.61
1:B:64:ARG:H	1:B:64:ARG:CD	2.07	0.61
1:C:264:ILE:HD11	1:C:266:SER:HB3	1.82	0.61
1:C:428:GLU:O	1:C:428:GLU:HG2	2.00	0.61
1:C:560:ARG:HB2	1:C:579:VAL:HG12	1.83	0.61
1:D:136:VAL:HB	1:D:145:GLU:HB3	1.81	0.61
1:D:166:THR:HG22	1:D:172:ASP:CB	2.28	0.61
1:E:528:PHE:HE1	2:L:107:TYR:HB2	1.65	0.61
2:L:16:LEU:O	2:L:74:MET:HE2	1.99	0.61
1:A:452:LEU:O	1:A:455:ASN:HB3	2.01	0.61
1:B:523:SER:O	1:B:524:ILE:HB	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:282:VAL:CG1	1:D:287:GLU:CD	2.36	0.61
1:F:60:LYS:HA	1:F:64:ARG:CA	2.31	0.61
1:F:93:GLU:OE1	1:F:140:ASP:CB	2.47	0.61
1:F:524:ILE:HG12	2:G:107:TYR:CZ	2.35	0.61
2:G:71:VAL:CB	2:H:98:GLY:HA3	2.30	0.61
2:H:68:SER:CA	2:I:102:GLU:OE2	2.49	0.61
2:I:17:PHE:C	2:I:74:MET:CE	2.60	0.61
2:L:88:LEU:C	2:L:88:LEU:CD2	2.68	0.61
1:A:112:TYR:C	1:A:141:ASP:CB	2.67	0.61
1:A:338:LEU:HB2	1:A:414:ALA:CB	2.16	0.61
1:B:320:TRP:HH2	1:B:347:GLU:CG	2.11	0.61
1:C:38:LEU:CD1	1:C:76:TRP:CZ2	2.76	0.61
1:C:136:VAL:HB	1:C:145:GLU:HB3	1.81	0.61
1:C:523:SER:O	1:C:524:ILE:HB	2.00	0.61
1:D:166:THR:HG23	1:D:171:HIS:C	2.15	0.61
1:D:428:GLU:O	1:D:428:GLU:HG2	2.00	0.61
1:E:34:LYS:CB	1:E:422:SER:CA	2.77	0.61
1:E:34:LYS:CB	1:E:422:SER:HA	2.31	0.61
1:E:36:PHE:CE1	1:E:422:SER:HB3	2.35	0.61
1:F:320:TRP:HE1	1:F:344:VAL:CG2	1.71	0.61
2:G:68:SER:CA	2:H:102:GLU:OE2	2.49	0.61
2:G:98:GLY:HA3	2:L:71:VAL:CB	2.30	0.61
2:H:71:VAL:CB	2:I:98:GLY:HA3	2.30	0.61
2:J:18:LEU:HB2	2:J:74:MET:CE	2.31	0.61
2:K:130:VAL:CG2	2:L:6:GLN:HG2	2.18	0.61
1:A:51:TYR:CE2	1:A:53:LEU:CD2	2.82	0.60
1:A:394:ASN:ND2	1:A:459:SER:HA	2.15	0.60
1:C:338:LEU:CA	1:C:412:MET:HE3	2.31	0.60
1:C:437:VAL:HG23	1:C:462:PHE:CZ	2.32	0.60
1:C:528:PHE:CE1	2:J:107:TYR:HB2	2.24	0.60
1:D:113:GLY:O	1:D:141:ASP:OD1	2.19	0.60
1:D:264:ILE:HD11	1:D:266:SER:HB3	1.82	0.60
1:E:60:LYS:HA	1:E:64:ARG:CA	2.31	0.60
1:F:119:ILE:HB	1:F:132:LEU:HB2	1.83	0.60
1:F:264:ILE:CG2	1:F:269:GLN:HB3	2.16	0.60
2:K:71:VAL:CB	2:L:98:GLY:HA3	2.30	0.60
2:K:128:GLU:N	2:L:8:THR:HG22	1.97	0.60
1:A:33:GLU:HB2	1:A:333:TYR:CE1	2.36	0.60
1:A:264:ILE:CD1	1:A:269:GLN:HB2	2.16	0.60
1:B:51:TYR:CE2	1:B:62:LEU:HD12	2.33	0.60
1:B:93:GLU:CB	1:B:140:ASP:CG	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:LYS:HB2	1:D:422:SER:HA	1.81	0.60
1:F:33:GLU:HB2	1:F:333:TYR:CE1	2.36	0.60
1:F:132:LEU:CD1	1:F:148:ASP:CA	2.79	0.60
1:F:452:LEU:O	1:F:455:ASN:HB3	2.01	0.60
1:A:337:PRO:O	1:A:345:HIS:CD2	2.55	0.60
1:A:560:ARG:HB2	1:A:579:VAL:HG12	1.83	0.60
1:B:338:LEU:HD12	1:B:414:ALA:N	2.16	0.60
1:C:82:TYR:HE2	1:C:433:LYS:HD2	1.65	0.60
1:C:93:GLU:OE1	1:C:140:ASP:CB	2.47	0.60
1:C:113:GLY:O	1:C:141:ASP:OD1	2.19	0.60
1:E:113:GLY:O	1:E:141:ASP:OD1	2.19	0.60
1:E:320:TRP:CE2	1:E:343:SER:C	2.74	0.60
1:F:543:GLN:NE2	1:F:568:ILE:CG2	2.49	0.60
2:I:16:LEU:O	2:I:74:MET:HE2	2.01	0.60
2:J:17:PHE:C	2:J:74:MET:CE	2.60	0.60
1:A:132:LEU:CD1	1:A:148:ASP:CA	2.79	0.60
1:A:352:VAL:HG21	1:A:364:ALA:HB2	1.82	0.60
1:A:437:VAL:HG21	1:A:462:PHE:HZ	1.64	0.60
1:B:93:GLU:HB3	1:B:140:ASP:HA	0.60	0.60
1:B:337:PRO:O	1:B:345:HIS:CD2	2.55	0.60
1:C:93:GLU:HB3	1:C:140:ASP:HA	0.60	0.60
1:C:337:PRO:O	1:C:345:HIS:CD2	2.55	0.60
1:C:537:LYS:HB2	1:C:545:PHE:CD2	2.37	0.60
1:D:124:GLU:HG3	1:D:178:ALA:HB1	1.83	0.60
1:D:327:PHE:HE2	1:D:351:PHE:HB2	1.63	0.60
1:D:452:LEU:O	1:D:455:ASN:HB3	2.01	0.60
1:E:113:GLY:CA	1:E:189:GLU:HB2	2.23	0.60
1:E:166:THR:HG22	1:E:172:ASP:CB	2.28	0.60
1:E:264:ILE:HD11	1:E:266:SER:HB3	1.82	0.60
1:F:36:PHE:HZ	1:F:419:GLY:HA2	1.60	0.60
1:F:532:TYR:OH	1:F:536:LYS:HE2	1.99	0.60
2:G:18:LEU:HB2	2:G:74:MET:CE	2.31	0.60
2:I:18:LEU:HB2	2:I:74:MET:CE	2.31	0.60
2:I:71:VAL:CB	2:J:98:GLY:HA3	2.30	0.60
2:J:68:SER:CA	2:K:102:GLU:OE2	2.49	0.60
2:K:127:GLU:CA	2:L:8:THR:CB	2.75	0.60
1:A:270:LEU:C	1:A:277:PRO:CD	2.69	0.60
1:B:113:GLY:CA	1:B:189:GLU:HB2	2.23	0.60
1:B:113:GLY:O	1:B:141:ASP:OD1	2.19	0.60
1:B:394:ASN:ND2	1:B:459:SER:HA	2.15	0.60
1:C:34:LYS:CB	1:C:422:SER:CA	2.77	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:TYR:C	1:C:141:ASP:CB	2.67	0.60
1:C:452:LEU:O	1:C:455:ASN:HB3	2.01	0.60
1:D:34:LYS:HE3	1:D:85:GLY:H	1.65	0.60
1:D:532:TYR:OH	1:D:536:LYS:HE2	1.99	0.60
1:E:337:PRO:O	1:E:345:HIS:CD2	2.55	0.60
1:E:428:GLU:O	1:E:428:GLU:HG2	2.00	0.60
2:I:68:SER:CA	2:J:102:GLU:OE2	2.49	0.60
1:A:36:PHE:HZ	1:A:419:GLY:HA2	1.60	0.60
1:A:93:GLU:HB3	1:A:140:ASP:HA	0.60	0.60
1:A:93:GLU:CB	1:A:140:ASP:CG	2.50	0.60
1:A:338:LEU:HD12	1:A:414:ALA:N	2.16	0.60
1:B:34:LYS:CB	1:B:422:SER:HA	2.31	0.60
1:B:428:GLU:O	1:B:428:GLU:HG2	2.00	0.60
1:B:452:LEU:O	1:B:455:ASN:HB3	2.01	0.60
1:C:92:ILE:HD11	1:C:326:LYS:HZ2	1.46	0.60
1:C:320:TRP:CE2	1:C:343:SER:C	2.74	0.60
1:D:33:GLU:HB2	1:D:333:TYR:CE1	2.36	0.60
1:E:33:GLU:HB2	1:E:333:TYR:CE1	2.36	0.60
1:E:124:GLU:HG3	1:E:178:ALA:HB1	1.83	0.60
1:E:320:TRP:HE1	1:E:344:VAL:CG2	1.71	0.60
1:F:112:TYR:C	1:F:141:ASP:CB	2.67	0.60
2:H:92:LEU:HB2	2:H:104:VAL:CG2	2.32	0.60
2:H:127:GLU:C	2:I:8:THR:HB	2.22	0.60
1:A:52:GLU:CG	1:A:88:LEU:HD23	2.16	0.60
1:A:124:GLU:HG3	1:A:178:ALA:HB1	1.83	0.60
1:A:387:PRO:HD2	1:A:390:SER:HB2	1.67	0.60
1:C:338:LEU:HD12	1:C:414:ALA:N	2.16	0.60
1:C:387:PRO:HG2	1:C:390:SER:CA	2.32	0.60
1:C:394:ASN:ND2	1:C:459:SER:HA	2.16	0.60
1:E:185:VAL:N	1:E:186:GLY:HA2	2.16	0.60
1:E:366:VAL:CG1	1:E:367:GLY:N	2.65	0.60
1:F:366:VAL:CG1	1:F:367:GLY:N	2.65	0.60
2:I:68:SER:CA	2:J:102:GLU:CD	2.64	0.60
2:J:129:GLU:C	2:K:6:GLN:CB	2.28	0.60
2:K:18:LEU:HB2	2:K:74:MET:CE	2.31	0.60
2:L:18:LEU:HB2	2:L:74:MET:CE	2.31	0.60
2:L:112:ASP:CB	2:L:115:LYS:HD3	2.32	0.60
1:A:113:GLY:CA	1:A:189:GLU:HB2	2.23	0.60
1:A:387:PRO:HG2	1:A:390:SER:CA	2.32	0.60
1:A:452:LEU:HB2	1:A:457:ILE:HG21	1.82	0.60
1:A:537:LYS:HB2	1:A:545:PHE:CD2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HB2	1:B:414:ALA:CB	2.16	0.60
1:B:537:LYS:HB2	1:B:545:PHE:CD2	2.37	0.60
1:C:132:LEU:CD1	1:C:148:ASP:CA	2.79	0.60
1:D:93:GLU:HB3	1:D:140:ASP:HA	0.60	0.60
1:D:352:VAL:HG21	1:D:364:ALA:HB2	1.82	0.60
1:D:366:VAL:CG1	1:D:367:GLY:N	2.65	0.60
1:E:338:LEU:HD12	1:E:414:ALA:N	2.16	0.60
1:E:519:ASN:O	1:E:522:ALA:HB3	2.02	0.60
1:E:532:TYR:CZ	1:E:536:LYS:CE	2.81	0.60
2:G:27:LYS:HE2	2:H:95:GLN:HG3	1.83	0.60
2:G:95:GLN:HG3	2:L:27:LYS:HE2	1.83	0.60
2:G:102:GLU:OE2	2:L:68:SER:CA	2.49	0.60
2:G:127:GLU:C	2:H:8:THR:HB	2.22	0.60
2:I:92:LEU:HB2	2:I:104:VAL:CG2	2.32	0.60
2:J:127:GLU:CA	2:K:8:THR:CB	2.75	0.60
1:A:132:LEU:CG	1:A:148:ASP:CA	2.55	0.60
1:A:363:ARG:HD3	1:A:391:LEU:CD1	2.32	0.60
1:B:452:LEU:HB2	1:B:457:ILE:HG21	1.82	0.60
1:C:92:ILE:CG1	1:C:326:LYS:CD	2.73	0.60
1:C:452:LEU:HB2	1:C:457:ILE:HG21	1.82	0.60
1:D:560:ARG:HB2	1:D:579:VAL:HG12	1.83	0.60
1:E:166:THR:HG23	1:E:171:HIS:C	2.15	0.60
1:F:92:ILE:HD11	1:F:326:LYS:HZ2	1.41	0.60
1:F:264:ILE:HD11	1:F:266:SER:HB3	1.82	0.60
1:F:337:PRO:O	1:F:345:HIS:CD2	2.55	0.60
1:F:338:LEU:HD12	1:F:414:ALA:N	2.16	0.60
1:F:560:ARG:HB2	1:F:579:VAL:HG12	1.83	0.60
2:K:68:SER:CA	2:L:102:GLU:OE2	2.49	0.60
1:B:270:LEU:C	1:B:277:PRO:CD	2.69	0.60
1:C:92:ILE:CD1	1:C:323:LYS:CA	2.67	0.60
1:D:519:ASN:O	1:D:522:ALA:HB3	2.02	0.60
1:E:532:TYR:OH	1:E:536:LYS:HE2	1.99	0.60
1:F:93:GLU:HB3	1:F:140:ASP:HA	0.60	0.60
2:G:112:ASP:CB	2:G:115:LYS:HD3	2.32	0.60
2:J:18:LEU:HB2	2:J:74:MET:HE3	1.84	0.60
1:C:60:LYS:HA	1:C:64:ARG:CA	2.31	0.59
1:C:366:VAL:CG1	1:C:367:GLY:N	2.65	0.59
1:D:60:LYS:HA	1:D:64:ARG:CA	2.31	0.59
1:E:93:GLU:HB3	1:E:140:ASP:HA	0.60	0.59
1:F:113:GLY:O	1:F:141:ASP:OD1	2.19	0.59
2:K:112:ASP:CB	2:K:115:LYS:HD3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:136:ASP:OD1	2:K:137:PHE:N	2.35	0.59
1:A:113:GLY:O	1:A:141:ASP:OD1	2.19	0.59
1:B:93:GLU:OE2	1:B:141:ASP:HB2	2.03	0.59
1:B:387:PRO:HG2	1:B:390:SER:CA	2.32	0.59
1:C:93:GLU:OE2	1:C:111:ILE:CA	2.50	0.59
1:D:338:LEU:CA	1:D:412:MET:HE3	2.33	0.59
1:E:93:GLU:CB	1:E:140:ASP:CG	2.50	0.59
1:F:93:GLU:OE2	1:F:111:ILE:CA	2.50	0.59
2:H:136:ASP:OD1	2:H:137:PHE:N	2.35	0.59
2:I:27:LYS:HE2	2:J:95:GLN:HG3	1.83	0.59
2:I:136:ASP:OD1	2:I:137:PHE:N	2.35	0.59
2:J:92:LEU:HB2	2:J:104:VAL:CG2	2.32	0.59
2:K:88:LEU:C	2:K:88:LEU:CD2	2.69	0.59
1:A:93:GLU:OE2	1:A:141:ASP:HB2	2.02	0.59
1:B:124:GLU:HG3	1:B:178:ALA:HB1	1.83	0.59
1:C:271:ASN:C	1:C:273:GLU:H	2.06	0.59
1:D:338:LEU:HD12	1:D:414:ALA:N	2.16	0.59
1:E:93:GLU:OE2	1:E:111:ILE:CA	2.50	0.59
1:F:519:ASN:O	1:F:522:ALA:HB3	2.02	0.59
2:G:23:MET:HB2	2:G:74:MET:HA	1.77	0.59
2:H:18:LEU:HB2	2:H:74:MET:CE	2.31	0.59
1:A:45:GLY:O	1:A:190:VAL:CG2	2.51	0.59
1:B:92:ILE:HD12	1:B:323:LYS:HG2	1.85	0.59
1:B:93:GLU:OE2	1:B:111:ILE:CA	2.50	0.59
1:B:185:VAL:N	1:B:186:GLY:HA2	2.16	0.59
1:B:398:PHE:HB2	1:B:436:ARG:HB3	1.85	0.59
1:C:338:LEU:C	1:C:412:MET:HE3	2.21	0.59
1:C:363:ARG:HD3	1:C:391:LEU:CD1	2.32	0.59
1:D:43:GLU:OE2	1:D:67:GLU:HB2	2.03	0.59
1:D:537:LYS:HB2	1:D:545:PHE:CD2	2.36	0.59
1:E:112:TYR:C	1:E:141:ASP:CB	2.67	0.59
1:E:252:PHE:CD2	1:E:257:LYS:CA	2.80	0.59
1:E:537:LYS:HB2	1:E:545:PHE:CD2	2.37	0.59
2:G:23:MET:HA	2:G:70:PHE:CG	2.37	0.59
2:K:68:SER:N	2:L:99:ARG:NE	2.51	0.59
1:A:338:LEU:CB	1:A:412:MET:HE2	2.31	0.59
1:C:33:GLU:HB2	1:C:333:TYR:CE1	2.36	0.59
1:C:43:GLU:OE2	1:C:67:GLU:HB2	2.03	0.59
1:C:92:ILE:HD12	1:C:323:LYS:HG2	1.85	0.59
1:C:140:ASP:O	1:C:141:ASP:CB	2.42	0.59
1:C:519:ASN:O	1:C:522:ALA:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:132:LEU:CD1	1:D:148:ASP:CA	2.79	0.59
1:D:337:PRO:O	1:D:345:HIS:CD2	2.55	0.59
1:E:34:LYS:HE3	1:E:85:GLY:H	1.65	0.59
1:E:560:ARG:HB2	1:E:579:VAL:HG12	1.83	0.59
1:F:43:GLU:OE2	1:F:67:GLU:HB2	2.02	0.59
1:F:124:GLU:HG3	1:F:178:ALA:HB1	1.83	0.59
1:F:252:PHE:CD2	1:F:257:LYS:CA	2.80	0.59
1:F:387:PRO:HG2	1:F:390:SER:CA	2.32	0.59
2:G:68:SER:N	2:H:99:ARG:NE	2.51	0.59
2:G:99:ARG:NE	2:L:68:SER:N	2.51	0.59
2:H:16:LEU:O	2:H:74:MET:HE2	2.02	0.59
2:J:136:ASP:OD1	2:J:137:PHE:N	2.35	0.59
2:K:92:LEU:HB2	2:K:104:VAL:CG2	2.32	0.59
2:L:23:MET:HA	2:L:70:PHE:CG	2.37	0.59
2:L:92:LEU:HB2	2:L:104:VAL:CG2	2.32	0.59
1:A:43:GLU:OE2	1:A:67:GLU:HB2	2.02	0.59
1:A:64:ARG:H	1:A:64:ARG:CD	2.07	0.59
1:B:33:GLU:HB2	1:B:333:TYR:CE1	2.37	0.59
1:C:124:GLU:HG3	1:C:178:ALA:HB1	1.83	0.59
1:D:93:GLU:OE2	1:D:111:ILE:CA	2.50	0.59
1:D:93:GLU:OE2	1:D:141:ASP:HB2	2.02	0.59
1:E:52:GLU:CG	1:E:88:LEU:HD23	2.16	0.59
1:E:119:ILE:HB	1:E:132:LEU:HB2	1.83	0.59
1:E:264:ILE:CD1	1:E:269:GLN:HB2	2.16	0.59
1:F:398:PHE:HB2	1:F:436:ARG:HB3	1.84	0.59
2:G:92:LEU:HB2	2:G:104:VAL:CG2	2.32	0.59
2:H:23:MET:HA	2:H:70:PHE:CG	2.37	0.59
2:J:27:LYS:HE2	2:K:95:GLN:HG3	1.83	0.59
2:L:18:LEU:HB2	2:L:74:MET:HE3	1.83	0.59
1:A:519:ASN:O	1:A:522:ALA:HB3	2.02	0.59
1:B:132:LEU:CD1	1:B:148:ASP:CA	2.80	0.59
1:B:363:ARG:HD3	1:B:391:LEU:CD1	2.32	0.59
1:B:366:VAL:CG1	1:B:367:GLY:N	2.65	0.59
1:B:431:THR:OG1	1:B:434:PRO:HD3	2.03	0.59
1:B:519:ASN:O	1:B:522:ALA:HB3	2.02	0.59
1:C:83:THR:OG1	1:C:419:GLY:CA	2.50	0.59
1:C:384:LEU:HG	1:C:384:LEU:O	2.02	0.59
1:D:55:ASN:HB2	1:D:58:GLN:CG	2.33	0.59
1:D:431:THR:OG1	1:D:434:PRO:HD3	2.03	0.59
1:F:55:ASN:HB2	1:F:58:GLN:CG	2.33	0.59
1:F:320:TRP:HZ2	1:F:344:VAL:N	1.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:363:ARG:HD3	1:F:391:LEU:CD1	2.32	0.59
1:F:431:THR:OG1	1:F:434:PRO:HD3	2.03	0.59
2:H:17:PHE:CA	2:H:74:MET:HE1	2.33	0.59
2:I:23:MET:HA	2:I:70:PHE:CG	2.37	0.59
2:J:128:GLU:CA	2:K:8:THR:HG21	2.26	0.59
1:A:93:GLU:OE2	1:A:111:ILE:CA	2.50	0.59
1:A:398:PHE:HB2	1:A:436:ARG:HB3	1.85	0.59
1:B:112:TYR:C	1:B:141:ASP:CB	2.67	0.59
1:B:271:ASN:C	1:B:273:GLU:H	2.06	0.59
1:C:532:TYR:OH	1:C:536:LYS:HE2	1.99	0.59
1:D:271:ASN:C	1:D:273:GLU:H	2.06	0.59
2:H:112:ASP:CB	2:H:115:LYS:HD3	2.32	0.59
2:H:130:VAL:CG2	2:I:6:GLN:HG2	2.19	0.59
1:A:250:ALA:HB1	1:A:252:PHE:CE1	2.38	0.59
1:A:366:VAL:CG1	1:A:367:GLY:N	2.65	0.59
1:B:55:ASN:HB2	1:B:58:GLN:CG	2.33	0.59
1:B:83:THR:OG1	1:B:419:GLY:CA	2.50	0.59
1:B:384:LEU:O	1:B:384:LEU:HG	2.02	0.59
1:D:250:ALA:HB1	1:D:252:PHE:CE1	2.38	0.59
1:E:320:TRP:HZ2	1:E:344:VAL:HA	1.50	0.59
1:E:363:ARG:HD3	1:E:391:LEU:CD1	2.32	0.59
1:F:537:LYS:HB2	1:F:545:PHE:CD2	2.37	0.59
2:H:17:PHE:C	2:H:74:MET:CE	2.60	0.59
2:J:112:ASP:CB	2:J:115:LYS:HD3	2.32	0.59
1:A:92:ILE:CD1	1:A:323:LYS:CA	2.67	0.59
1:B:43:GLU:OE2	1:B:67:GLU:HB2	2.03	0.59
1:C:258:GLN:C	1:C:259:THR:CG2	2.71	0.59
1:C:528:PHE:HZ	2:J:107:TYR:CG	2.17	0.59
1:D:183:LEU:HD11	1:D:192:SER:HG	1.62	0.59
1:D:384:LEU:HG	1:D:384:LEU:O	2.03	0.59
1:E:398:PHE:HB2	1:E:436:ARG:HB3	1.85	0.59
1:A:431:THR:OG1	1:A:434:PRO:HD3	2.03	0.58
1:D:532:TYR:CZ	1:D:536:LYS:CE	2.81	0.58
1:E:43:GLU:OE2	1:E:67:GLU:HB2	2.03	0.58
1:F:45:GLY:O	1:F:190:VAL:CG2	2.51	0.58
1:F:83:THR:OG1	1:F:419:GLY:CA	2.50	0.58
2:G:88:LEU:C	2:G:88:LEU:CD2	2.69	0.58
2:H:68:SER:N	2:I:99:ARG:NE	2.51	0.58
1:C:93:GLU:OE2	1:C:141:ASP:HB2	2.02	0.58
1:D:36:PHE:HD1	1:D:334:TYR:HB2	1.68	0.58
1:D:363:ARG:HD3	1:D:391:LEU:CD1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:THR:OG1	1:E:419:GLY:CA	2.50	0.58
1:F:250:ALA:HB1	1:F:252:PHE:CE1	2.38	0.58
1:F:271:ASN:C	1:F:273:GLU:H	2.06	0.58
2:I:112:ASP:CB	2:I:115:LYS:HD3	2.32	0.58
2:J:23:MET:HA	2:J:70:PHE:CG	2.37	0.58
2:K:23:MET:HA	2:K:70:PHE:CG	2.37	0.58
1:B:45:GLY:O	1:B:190:VAL:CG2	2.51	0.58
1:B:250:ALA:HB1	1:B:252:PHE:CE1	2.38	0.58
1:E:92:ILE:CG1	1:E:326:LYS:CD	2.73	0.58
2:G:136:ASP:OD1	2:G:137:PHE:N	2.35	0.58
2:J:23:MET:CB	2:J:74:MET:HA	2.24	0.58
2:K:130:VAL:HG22	2:L:6:GLN:HG3	1.73	0.58
2:L:136:ASP:OD1	2:L:137:PHE:N	2.35	0.58
1:A:83:THR:OG1	1:A:419:GLY:CA	2.50	0.58
1:A:185:VAL:N	1:A:186:GLY:HA2	2.16	0.58
1:A:504:LEU:HD21	1:A:529:ILE:HG23	1.85	0.58
1:B:528:PHE:CE1	2:I:107:TYR:CB	2.85	0.58
1:C:55:ASN:HB2	1:C:58:GLN:CG	2.33	0.58
1:D:387:PRO:HG2	1:D:390:SER:CA	2.32	0.58
1:E:45:GLY:O	1:E:190:VAL:CG2	2.51	0.58
1:E:55:ASN:HB2	1:E:58:GLN:CG	2.33	0.58
1:E:93:GLU:OE2	1:E:141:ASP:HB2	2.03	0.58
1:E:384:LEU:O	1:E:384:LEU:HG	2.02	0.58
1:F:185:VAL:N	1:F:186:GLY:HA2	2.16	0.58
2:G:16:LEU:H	2:G:16:LEU:HD23	1.69	0.58
2:G:70:PHE:C	2:H:99:ARG:HD2	2.24	0.58
2:H:27:LYS:HE2	2:I:95:GLN:HG3	1.83	0.58
2:J:68:SER:N	2:K:99:ARG:NE	2.51	0.58
2:K:27:LYS:HE2	2:L:95:GLN:HG3	1.83	0.58
2:L:23:MET:HB2	2:L:74:MET:HA	1.77	0.58
1:B:504:LEU:HD21	1:B:529:ILE:HG23	1.85	0.58
1:C:36:PHE:HD1	1:C:334:TYR:HB2	1.68	0.58
1:C:45:GLY:O	1:C:190:VAL:CG2	2.51	0.58
1:D:45:GLY:O	1:D:190:VAL:CG2	2.51	0.58
1:D:83:THR:OG1	1:D:419:GLY:CA	2.50	0.58
1:E:431:THR:OG1	1:E:434:PRO:HD3	2.03	0.58
2:G:70:PHE:H	2:H:99:ARG:CD	2.10	0.58
2:H:101:THR:O	2:H:143:LEU:HB2	2.04	0.58
2:H:129:GLU:C	2:I:6:GLN:CB	2.28	0.58
1:C:117:ASN:CG	1:C:187:ASP:OD1	2.28	0.58
1:D:426:ILE:HG13	1:D:495:GLU:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:387:PRO:HG2	1:E:390:SER:CA	2.32	0.58
1:F:384:LEU:HG	1:F:384:LEU:O	2.03	0.58
1:A:258:GLN:C	1:A:259:THR:CG2	2.71	0.58
1:A:537:LYS:HG2	1:A:542:ILE:O	2.04	0.58
1:B:112:TYR:CA	1:B:141:ASP:CG	2.58	0.58
1:B:537:LYS:HG2	1:B:542:ILE:O	2.04	0.58
1:C:426:ILE:HG13	1:C:495:GLU:CB	2.33	0.58
1:D:452:LEU:HB2	1:D:457:ILE:HG21	1.82	0.58
1:E:93:GLU:OE2	1:E:111:ILE:CB	2.50	0.58
1:E:132:LEU:CD1	1:E:148:ASP:CA	2.79	0.58
1:E:504:LEU:HD21	1:E:529:ILE:HG23	1.85	0.58
1:F:92:ILE:CD1	1:F:323:LYS:CA	2.67	0.58
1:F:93:GLU:OE2	1:F:141:ASP:HB2	2.02	0.58
2:G:101:THR:O	2:G:143:LEU:HB2	2.04	0.58
2:G:127:GLU:O	2:H:6:GLN:O	2.22	0.58
2:I:101:THR:O	2:I:143:LEU:HB2	2.04	0.58
1:B:36:PHE:HD1	1:B:334:TYR:HB2	1.69	0.58
1:B:166:THR:HG22	1:B:171:HIS:C	2.24	0.58
1:B:412:MET:O	1:B:415:VAL:HG12	2.04	0.58
1:D:93:GLU:OE2	1:D:111:ILE:CB	2.50	0.58
1:E:537:LYS:HG2	1:E:542:ILE:O	2.04	0.58
1:F:412:MET:O	1:F:415:VAL:HG12	2.04	0.58
2:H:71:VAL:CG2	2:I:99:ARG:HD3	2.30	0.58
2:H:88:LEU:C	2:H:88:LEU:CD2	2.69	0.58
2:K:120:ASP:C	2:L:33:VAL:N	2.55	0.58
2:L:101:THR:O	2:L:143:LEU:HB2	2.04	0.58
1:A:55:ASN:HB2	1:A:58:GLN:CG	2.33	0.58
1:A:426:ILE:HG13	1:A:495:GLU:CB	2.33	0.58
1:B:183:LEU:HD11	1:B:192:SER:HG	1.66	0.58
1:C:93:GLU:OE2	1:C:111:ILE:CB	2.50	0.58
1:D:113:GLY:CA	1:D:189:GLU:HB2	2.23	0.58
1:D:258:GLN:C	1:D:259:THR:CG2	2.71	0.58
1:E:250:ALA:HB1	1:E:252:PHE:CE1	2.38	0.58
2:K:127:GLU:O	2:L:6:GLN:O	2.22	0.58
1:C:166:THR:HG22	1:C:171:HIS:C	2.24	0.58
1:C:543:GLN:NE2	1:C:568:ILE:CG2	2.49	0.58
1:D:338:LEU:C	1:D:412:MET:HE3	2.24	0.58
1:E:36:PHE:CZ	1:E:418:GLY:O	2.57	0.58
1:E:412:MET:O	1:E:415:VAL:HG12	2.04	0.58
2:H:16:LEU:HD23	2:H:16:LEU:H	1.69	0.58
2:I:70:PHE:C	2:J:99:ARG:HD2	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:70:PHE:C	2:K:99:ARG:HD2	2.24	0.58
2:J:101:THR:O	2:J:143:LEU:HB2	2.04	0.58
2:L:16:LEU:HD23	2:L:16:LEU:H	1.69	0.58
1:A:36:PHE:CZ	1:A:418:GLY:O	2.57	0.57
1:A:412:MET:O	1:A:415:VAL:HG12	2.04	0.57
1:B:36:PHE:CZ	1:B:418:GLY:O	2.57	0.57
1:C:537:LYS:HG2	1:C:542:ILE:O	2.04	0.57
1:D:270:LEU:C	1:D:277:PRO:CD	2.69	0.57
1:D:398:PHE:HB2	1:D:436:ARG:HB3	1.85	0.57
1:E:170:GLU:CB	1:E:286:GLU:O	2.52	0.57
1:F:93:GLU:OE2	1:F:111:ILE:CB	2.50	0.57
1:F:117:ASN:CG	1:F:187:ASP:OD1	2.28	0.57
1:F:246:VAL:HA	1:F:264:ILE:HA	1.86	0.57
1:F:264:ILE:HG22	1:F:277:PRO:O	2.05	0.57
2:I:68:SER:N	2:J:99:ARG:NE	2.51	0.57
1:A:166:THR:HG22	1:A:171:HIS:C	2.24	0.57
1:A:264:ILE:HG22	1:A:277:PRO:O	2.05	0.57
1:C:412:MET:O	1:C:415:VAL:HG12	2.04	0.57
1:D:166:THR:HG22	1:D:171:HIS:C	2.24	0.57
1:F:67:GLU:HB2	1:F:70:ASP:OD2	2.04	0.57
2:H:70:PHE:C	2:I:99:ARG:HD2	2.24	0.57
1:A:67:GLU:HB2	1:A:70:ASP:OD2	2.04	0.57
1:A:173:GLU:HG2	1:A:201:ASP:OD2	2.05	0.57
1:A:271:ASN:C	1:A:273:GLU:H	2.06	0.57
1:A:384:LEU:HG	1:A:384:LEU:O	2.02	0.57
1:B:528:PHE:CZ	2:I:107:TYR:CB	2.85	0.57
1:D:119:ILE:HB	1:D:132:LEU:HB2	1.83	0.57
1:D:170:GLU:CB	1:D:286:GLU:O	2.52	0.57
1:E:173:GLU:HG2	1:E:201:ASP:OD2	2.05	0.57
1:F:36:PHE:CZ	1:F:418:GLY:O	2.57	0.57
1:F:537:LYS:HG2	1:F:542:ILE:O	2.04	0.57
2:G:6:GLN:O	2:L:127:GLU:O	2.22	0.57
2:G:8:THR:HG22	2:L:128:GLU:N	1.96	0.57
2:I:16:LEU:HD23	2:I:16:LEU:H	1.69	0.57
2:I:23:MET:O	2:I:24:ALA:HB2	2.04	0.57
2:K:130:VAL:CG2	2:L:6:GLN:CB	2.68	0.57
1:A:36:PHE:HD1	1:A:334:TYR:HB2	1.69	0.57
1:A:338:LEU:HD12	1:A:414:ALA:HB2	0.58	0.57
1:A:528:PHE:CZ	2:H:107:TYR:HB3	2.39	0.57
1:C:250:ALA:HB1	1:C:252:PHE:CE1	2.38	0.57
1:C:320:TRP:CH2	1:C:347:GLU:HG3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:528:PHE:CZ	2:K:107:TYR:CG	2.91	0.57
1:E:246:VAL:HA	1:E:264:ILE:HA	1.86	0.57
1:F:32:SER:OG	1:F:426:ILE:HG22	2.05	0.57
1:F:426:ILE:HG13	1:F:495:GLU:CB	2.33	0.57
2:G:99:ARG:HD2	2:L:70:PHE:C	2.24	0.57
2:H:23:MET:O	2:H:24:ALA:HB2	2.04	0.57
2:L:77:TYR:O	2:L:80:LYS:HG2	2.05	0.57
1:C:45:GLY:O	1:C:190:VAL:HG21	2.05	0.57
1:C:338:LEU:HB3	1:C:412:MET:CE	2.23	0.57
1:C:398:PHE:HB2	1:C:436:ARG:HB3	1.85	0.57
1:C:431:THR:OG1	1:C:434:PRO:HD3	2.03	0.57
1:E:352:VAL:HG11	1:E:362:MET:HG3	1.77	0.57
1:E:426:ILE:HG13	1:E:495:GLU:CB	2.33	0.57
1:E:527:ASP:OD2	2:L:136:ASP:OD2	2.21	0.57
2:G:71:VAL:H	2:H:99:ARG:HD3	1.69	0.57
2:I:77:TYR:O	2:I:80:LYS:HG2	2.05	0.57
2:I:120:ASP:C	2:J:33:VAL:N	2.55	0.57
2:K:70:PHE:C	2:L:99:ARG:HD2	2.24	0.57
1:B:45:GLY:O	1:B:190:VAL:HG21	2.05	0.57
1:B:426:ILE:HG13	1:B:495:GLU:CB	2.33	0.57
1:D:173:GLU:HG2	1:D:201:ASP:OD2	2.05	0.57
1:E:32:SER:OG	1:E:426:ILE:HG22	2.05	0.57
2:G:77:TYR:O	2:G:80:LYS:HG2	2.05	0.57
2:J:77:TYR:O	2:J:80:LYS:HG2	2.05	0.57
2:K:77:TYR:O	2:K:80:LYS:HG2	2.05	0.57
1:B:32:SER:OG	1:B:426:ILE:HG22	2.05	0.57
1:B:258:GLN:C	1:B:259:THR:CG2	2.71	0.57
1:C:119:ILE:HB	1:C:132:LEU:HB2	1.83	0.57
1:D:32:SER:OG	1:D:426:ILE:HG22	2.05	0.57
1:D:36:PHE:CZ	1:D:418:GLY:O	2.57	0.57
1:D:92:ILE:CD1	1:D:323:LYS:CA	2.67	0.57
1:E:45:GLY:O	1:E:190:VAL:HG21	2.05	0.57
1:E:107:ILE:HG13	1:E:193:TYR:CE2	2.40	0.57
1:E:535:ARG:NH2	2:L:135:GLU:OE1	2.36	0.57
1:F:173:GLU:HG2	1:F:201:ASP:OD2	2.05	0.57
2:I:118:SER:CA	2:J:7:ASN:HD21	2.17	0.57
1:A:170:GLU:CB	1:A:286:GLU:O	2.52	0.57
1:C:107:ILE:HG13	1:C:193:TYR:CE2	2.40	0.57
1:E:264:ILE:HG22	1:E:277:PRO:O	2.05	0.57
1:E:543:GLN:NE2	1:E:568:ILE:CG2	2.49	0.57
1:F:170:GLU:CB	1:F:286:GLU:O	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:127:GLU:C	2:J:8:THR:HB	2.22	0.57
2:K:23:MET:O	2:K:24:ALA:HB2	2.04	0.57
1:B:173:GLU:HG2	1:B:201:ASP:OD2	2.05	0.57
1:B:338:LEU:HD12	1:B:414:ALA:HB2	0.58	0.57
1:C:246:VAL:HA	1:C:264:ILE:HA	1.87	0.57
1:F:107:ILE:HG13	1:F:193:TYR:CE2	2.40	0.57
2:G:33:VAL:N	2:L:120:ASP:C	2.55	0.57
2:H:118:SER:CA	2:I:7:ASN:HD21	2.17	0.57
2:I:127:GLU:O	2:J:6:GLN:O	2.22	0.57
2:J:127:GLU:O	2:K:6:GLN:O	2.22	0.57
2:L:23:MET:O	2:L:24:ALA:HB2	2.04	0.57
1:A:45:GLY:HA3	1:A:112:TYR:HD1	1.69	0.57
1:B:107:ILE:HG13	1:B:193:TYR:CE2	2.40	0.57
1:B:119:ILE:HB	1:B:132:LEU:HB2	1.83	0.57
1:B:264:ILE:CD1	1:B:269:GLN:HB2	2.16	0.57
1:C:114:ASN:CA	1:C:137:ILE:HD13	2.30	0.57
1:C:320:TRP:HZ2	1:C:344:VAL:N	1.90	0.57
1:D:92:ILE:HG23	1:D:322:ASP:O	2.05	0.57
1:D:107:ILE:HG13	1:D:193:TYR:CE2	2.40	0.57
1:D:320:TRP:CH2	1:D:347:GLU:HG3	2.35	0.57
1:D:412:MET:O	1:D:415:VAL:HG12	2.04	0.57
1:D:537:LYS:HG2	1:D:542:ILE:O	2.04	0.57
1:E:183:LEU:HD11	1:E:192:SER:HG	1.68	0.57
1:E:431:THR:O	1:E:434:PRO:CD	2.53	0.57
2:G:25:HIS:CD2	2:H:98:GLY:CA	2.88	0.57
2:H:71:VAL:H	2:I:99:ARG:HD3	1.69	0.57
2:J:25:HIS:CD2	2:K:98:GLY:CA	2.88	0.57
2:L:89:GLN:HG2	2:L:103:ARG:HD2	1.87	0.57
1:B:264:ILE:HG22	1:B:277:PRO:O	2.05	0.56
1:C:32:SER:OG	1:C:426:ILE:HG22	2.05	0.56
1:C:39:ILE:HG22	1:C:90:MET:HB2	1.87	0.56
1:D:504:LEU:HD21	1:D:529:ILE:HG23	1.85	0.56
1:E:82:TYR:CE2	1:E:433:LYS:HD2	2.40	0.56
1:E:166:THR:HG22	1:E:171:HIS:C	2.24	0.56
1:F:258:GLN:C	1:F:259:THR:CG2	2.71	0.56
2:G:23:MET:O	2:G:24:ALA:HB2	2.04	0.56
2:H:127:GLU:O	2:I:6:GLN:O	2.22	0.56
2:K:16:LEU:HD23	2:K:16:LEU:H	1.69	0.56
2:L:17:PHE:N	2:L:17:PHE:CD1	2.73	0.56
1:A:32:SER:OG	1:A:426:ILE:HG22	2.05	0.56
1:A:93:GLU:OE2	1:A:111:ILE:CB	2.50	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:GLY:HA3	1:B:112:TYR:HD1	1.69	0.56
1:B:82:TYR:CE2	1:B:433:LYS:HD2	2.40	0.56
1:B:170:GLU:CB	1:B:286:GLU:O	2.52	0.56
1:B:246:VAL:HA	1:B:264:ILE:HA	1.87	0.56
1:B:382:ALA:O	1:B:383:SER:HB2	2.05	0.56
1:C:32:SER:CB	1:C:426:ILE:HG22	2.36	0.56
1:C:67:GLU:HB2	1:C:70:ASP:OD2	2.04	0.56
1:C:320:TRP:HE1	1:C:344:VAL:CG2	1.71	0.56
1:C:382:ALA:O	1:C:383:SER:HB2	2.05	0.56
1:D:67:GLU:HB2	1:D:70:ASP:OD2	2.04	0.56
1:E:258:GLN:C	1:E:259:THR:CG2	2.71	0.56
2:K:101:THR:O	2:K:143:LEU:HB2	2.04	0.56
1:A:45:GLY:O	1:A:190:VAL:HG21	2.05	0.56
1:A:76:TRP:CB	1:A:415:VAL:HG21	2.33	0.56
1:A:107:ILE:HG13	1:A:193:TYR:CE2	2.40	0.56
1:A:169:VAL:HB	1:A:286:GLU:CD	2.20	0.56
1:A:264:ILE:CG2	1:A:269:GLN:HB3	2.16	0.56
1:C:36:PHE:CZ	1:C:418:GLY:O	2.57	0.56
1:C:39:ILE:CD1	1:C:327:PHE:HA	2.03	0.56
1:C:82:TYR:CE2	1:C:433:LYS:HD2	2.40	0.56
1:C:92:ILE:HG23	1:C:322:ASP:O	2.05	0.56
1:C:170:GLU:CB	1:C:286:GLU:O	2.52	0.56
1:C:173:GLU:HG2	1:C:201:ASP:OD2	2.05	0.56
1:C:504:LEU:HD21	1:C:529:ILE:HG23	1.85	0.56
1:D:39:ILE:HG22	1:D:90:MET:HB2	1.87	0.56
1:D:246:VAL:HA	1:D:264:ILE:HA	1.86	0.56
1:D:264:ILE:HG22	1:D:277:PRO:O	2.05	0.56
1:D:320:TRP:CE2	1:D:343:SER:C	2.74	0.56
1:D:431:THR:O	1:D:434:PRO:CD	2.53	0.56
1:E:39:ILE:HG22	1:E:90:MET:HB2	1.87	0.56
1:E:67:GLU:HB2	1:E:70:ASP:OD2	2.04	0.56
1:F:431:THR:O	1:F:434:PRO:CD	2.52	0.56
1:F:532:TYR:CZ	1:F:536:LYS:CE	2.81	0.56
2:G:73:LEU:HD13	2:G:73:LEU:C	2.26	0.56
2:G:120:ASP:C	2:H:33:VAL:N	2.55	0.56
2:H:70:PHE:H	2:I:99:ARG:CD	2.10	0.56
2:H:77:TYR:O	2:H:80:LYS:HG2	2.05	0.56
2:I:73:LEU:C	2:I:73:LEU:HD13	2.26	0.56
2:J:130:VAL:HG22	2:K:6:GLN:HG3	1.73	0.56
2:K:22:GLU:CB	2:K:70:PHE:CE2	2.50	0.56
2:L:73:LEU:C	2:L:73:LEU:HD13	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:ILE:HG12	1:A:326:LYS:HZ2	1.60	0.56
1:B:366:VAL:C	1:B:393:ALA:HB3	2.26	0.56
1:B:512:PHE:HE1	1:B:517:THR:HG1	1.53	0.56
1:C:111:ILE:HD12	1:C:112:TYR:HE1	1.71	0.56
1:C:183:LEU:HD11	1:C:192:SER:HG	1.66	0.56
1:C:527:ASP:CG	2:J:136:ASP:OD2	2.40	0.56
1:D:52:GLU:CG	1:D:88:LEU:HD22	2.25	0.56
1:F:45:GLY:HA3	1:F:112:TYR:HD1	1.69	0.56
1:F:366:VAL:C	1:F:393:ALA:HB3	2.26	0.56
2:I:17:PHE:N	2:I:17:PHE:CD1	2.73	0.56
2:I:25:HIS:CD2	2:J:98:GLY:CA	2.88	0.56
2:J:16:LEU:H	2:J:16:LEU:HD23	1.69	0.56
2:J:27:LYS:CE	2:K:95:GLN:HG3	2.36	0.56
2:J:89:GLN:HG2	2:J:103:ARG:HD2	1.87	0.56
1:A:92:ILE:HG23	1:A:322:ASP:O	2.05	0.56
1:B:114:ASN:CA	1:B:137:ILE:HD13	2.30	0.56
1:F:45:GLY:O	1:F:190:VAL:HG21	2.05	0.56
1:F:92:ILE:HG23	1:F:322:ASP:O	2.05	0.56
1:F:504:LEU:HD21	1:F:529:ILE:HG23	1.85	0.56
2:G:7:ASN:ND2	2:L:118:SER:CA	2.65	0.56
2:G:98:GLY:CA	2:L:25:HIS:CD2	2.88	0.56
2:H:25:HIS:CD2	2:I:98:GLY:CA	2.88	0.56
1:A:382:ALA:O	1:A:383:SER:HB2	2.05	0.56
1:A:437:VAL:HG21	1:A:462:PHE:CZ	2.39	0.56
1:B:32:SER:CB	1:B:426:ILE:HG22	2.36	0.56
1:B:320:TRP:CD1	1:B:340:SER:HA	2.41	0.56
1:C:45:GLY:HA3	1:C:112:TYR:HD1	1.69	0.56
1:C:264:ILE:HG22	1:C:277:PRO:O	2.04	0.56
1:C:366:VAL:C	1:C:393:ALA:HB3	2.26	0.56
1:D:45:GLY:O	1:D:190:VAL:HG21	2.05	0.56
1:E:45:GLY:HA3	1:E:112:TYR:HD1	1.69	0.56
1:E:271:ASN:C	1:E:273:GLU:H	2.06	0.56
1:F:36:PHE:HD1	1:F:334:TYR:HB2	1.68	0.56
2:G:118:SER:CA	2:H:7:ASN:HD21	2.17	0.56
2:J:88:LEU:C	2:J:88:LEU:CD2	2.69	0.56
2:K:17:PHE:CD1	2:K:17:PHE:N	2.73	0.56
2:K:27:LYS:CE	2:L:95:GLN:HG3	2.36	0.56
1:B:67:GLU:HB2	1:B:70:ASP:OD2	2.04	0.56
1:D:82:TYR:CE2	1:D:433:LYS:HD2	2.40	0.56
1:D:320:TRP:CD1	1:D:340:SER:HA	2.41	0.56
1:F:39:ILE:HG22	1:F:90:MET:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:23:MET:O	2:J:24:ALA:HB2	2.04	0.56
1:A:36:PHE:CZ	1:A:422:SER:CB	2.87	0.56
1:B:39:ILE:HG22	1:B:90:MET:HB2	1.87	0.56
1:B:111:ILE:HD12	1:B:112:TYR:HE1	1.71	0.56
1:B:271:ASN:H	1:B:277:PRO:HD3	1.71	0.56
1:D:45:GLY:HA3	1:D:112:TYR:HD1	1.69	0.56
1:E:92:ILE:HG23	1:E:322:ASP:O	2.05	0.56
1:E:264:ILE:CD1	1:E:269:GLN:HB3	2.17	0.56
1:F:93:GLU:HG2	1:F:112:TYR:CE2	2.41	0.56
1:F:504:LEU:HD22	1:F:529:ILE:HD12	1.88	0.56
2:H:120:ASP:C	2:I:33:VAL:N	2.55	0.56
2:J:17:PHE:N	2:J:17:PHE:CD1	2.73	0.56
1:A:394:ASN:OD1	1:A:457:ILE:HD13	2.06	0.56
1:C:93:GLU:HG2	1:C:112:TYR:CE2	2.41	0.56
1:C:264:ILE:CG2	1:C:269:GLN:HB3	2.16	0.56
1:C:320:TRP:CD1	1:C:340:SER:HA	2.41	0.56
1:D:428:GLU:O	1:D:429:SER:HB2	2.06	0.56
1:E:120:GLN:O	1:E:181:LEU:HD12	2.06	0.56
1:E:387:PRO:CD	1:E:390:SER:HB3	2.36	0.56
1:F:52:GLU:CG	1:F:88:LEU:HD22	2.25	0.56
1:F:283:GLU:HA	1:F:287:GLU:CB	2.34	0.56
2:G:128:GLU:CA	2:H:8:THR:HG21	2.26	0.56
2:K:25:HIS:CD2	2:L:98:GLY:CA	2.88	0.56
2:K:71:VAL:H	2:L:99:ARG:HD3	1.69	0.56
1:A:366:VAL:C	1:A:393:ALA:HB3	2.26	0.56
1:B:452:LEU:HD22	1:B:459:SER:HB2	1.88	0.56
1:C:363:ARG:CD	1:C:391:LEU:HD12	2.36	0.56
1:C:394:ASN:OD1	1:C:457:ILE:HD13	2.06	0.56
1:D:93:GLU:HG2	1:D:112:TYR:CE2	2.41	0.56
1:D:264:ILE:CD1	1:D:269:GLN:HB2	2.16	0.56
1:D:366:VAL:C	1:D:393:ALA:HB3	2.26	0.56
1:D:394:ASN:OD1	1:D:457:ILE:HD13	2.06	0.56
1:E:320:TRP:CD1	1:E:340:SER:HA	2.41	0.56
1:E:320:TRP:HZ2	1:E:344:VAL:N	1.89	0.56
1:E:366:VAL:C	1:E:393:ALA:HB3	2.26	0.56
1:E:382:ALA:O	1:E:383:SER:HB2	2.05	0.56
1:E:394:ASN:OD1	1:E:457:ILE:HD13	2.06	0.56
1:F:82:TYR:CE2	1:F:433:LYS:HD2	2.40	0.56
1:F:394:ASN:OD1	1:F:457:ILE:HD13	2.06	0.56
2:G:27:LYS:CE	2:H:95:GLN:HG3	2.36	0.56
2:G:95:GLN:HG3	2:L:27:LYS:CE	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:130:VAL:CG2	2:H:6:GLN:HG2	2.18	0.56
1:A:320:TRP:CD1	1:A:340:SER:HA	2.41	0.55
1:B:93:GLU:HG2	1:B:112:TYR:CE2	2.41	0.55
1:B:320:TRP:HE1	1:B:344:VAL:CG2	1.71	0.55
1:B:428:GLU:O	1:B:429:SER:HB2	2.06	0.55
1:C:120:GLN:O	1:C:181:LEU:HD12	2.06	0.55
1:C:431:THR:O	1:C:434:PRO:CD	2.52	0.55
1:C:541:GLU:H	1:C:568:ILE:CG1	2.19	0.55
1:D:173:GLU:HB3	1:D:199:ALA:HB3	1.88	0.55
1:E:93:GLU:HG2	1:E:112:TYR:CE2	2.41	0.55
1:F:428:GLU:O	1:F:429:SER:HB2	2.06	0.55
2:H:26:ILE:HD11	2:H:61:ALA:HB1	1.89	0.55
2:I:27:LYS:CE	2:J:95:GLN:HG3	2.36	0.55
1:A:32:SER:CB	1:A:426:ILE:HG22	2.36	0.55
1:A:43:GLU:OE2	1:A:67:GLU:OE1	2.24	0.55
1:A:246:VAL:HA	1:A:264:ILE:HA	1.86	0.55
1:B:173:GLU:HB3	1:B:199:ALA:HB3	1.89	0.55
1:B:338:LEU:CG	1:B:366:VAL:C	2.52	0.55
1:E:43:GLU:OE2	1:E:67:GLU:OE1	2.24	0.55
1:F:166:THR:HG22	1:F:171:HIS:O	1.96	0.55
2:H:27:LYS:CE	2:I:95:GLN:HG3	2.36	0.55
2:K:89:GLN:HG2	2:K:103:ARG:HD2	1.87	0.55
1:A:50:VAL:O	1:A:50:VAL:HG12	2.07	0.55
1:A:82:TYR:CE2	1:A:433:LYS:HD2	2.40	0.55
1:A:431:THR:OG1	1:A:434:PRO:HG3	2.06	0.55
1:B:38:LEU:CD1	1:B:76:TRP:CZ2	2.76	0.55
1:B:92:ILE:HG23	1:B:322:ASP:O	2.05	0.55
1:B:352:VAL:HG11	1:B:362:MET:HG3	1.77	0.55
1:B:528:PHE:CE1	2:I:107:TYR:HB3	2.40	0.55
1:C:36:PHE:CZ	1:C:422:SER:CB	2.87	0.55
1:D:363:ARG:CD	1:D:391:LEU:HD12	2.36	0.55
1:E:338:LEU:CG	1:E:366:VAL:C	2.52	0.55
1:F:120:GLN:O	1:F:181:LEU:HD12	2.06	0.55
1:F:165:ALA:O	1:F:169:VAL:HG22	2.07	0.55
1:F:320:TRP:CE2	1:F:343:SER:C	2.74	0.55
2:I:71:VAL:H	2:J:99:ARG:HD3	1.69	0.55
2:I:89:GLN:HG2	2:I:103:ARG:HD2	1.87	0.55
2:J:73:LEU:HD13	2:J:73:LEU:C	2.26	0.55
2:K:73:LEU:C	2:K:73:LEU:HD13	2.26	0.55
2:K:118:SER:CA	2:L:7:ASN:ND2	2.65	0.55
1:A:120:GLN:O	1:A:181:LEU:HD12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:ALA:O	1:B:169:VAL:HG22	2.07	0.55
1:B:541:GLU:H	1:B:568:ILE:CG1	2.19	0.55
1:C:165:ALA:O	1:C:169:VAL:HG22	2.07	0.55
1:C:173:GLU:HB3	1:C:199:ALA:HB3	1.89	0.55
1:C:452:LEU:HD22	1:C:459:SER:HB2	1.88	0.55
1:D:165:ALA:O	1:D:169:VAL:HG22	2.07	0.55
1:E:327:PHE:CE2	1:E:351:PHE:HB2	2.42	0.55
1:F:50:VAL:O	1:F:50:VAL:HG12	2.07	0.55
1:A:36:PHE:CE2	1:A:419:GLY:CA	2.87	0.55
1:A:39:ILE:HG22	1:A:90:MET:HB2	1.87	0.55
1:B:120:GLN:O	1:B:181:LEU:HD12	2.06	0.55
1:B:387:PRO:CD	1:B:390:SER:HB3	2.36	0.55
1:C:271:ASN:H	1:C:277:PRO:HD3	1.71	0.55
1:C:327:PHE:CE2	1:C:351:PHE:HB2	2.42	0.55
1:D:39:ILE:HA	1:D:326:LYS:HE2	1.88	0.55
1:D:43:GLU:OE2	1:D:67:GLU:OE1	2.24	0.55
1:D:111:ILE:HD12	1:D:112:TYR:HE1	1.71	0.55
1:D:114:ASN:CA	1:D:137:ILE:HD13	2.30	0.55
1:D:387:PRO:CD	1:D:390:SER:HB3	2.36	0.55
1:E:36:PHE:HD1	1:E:334:TYR:HB2	1.68	0.55
1:E:92:ILE:CD1	1:E:323:LYS:CA	2.67	0.55
1:E:283:GLU:HA	1:E:287:GLU:CB	2.33	0.55
1:E:504:LEU:HD22	1:E:529:ILE:HD12	1.88	0.55
1:F:32:SER:CB	1:F:426:ILE:HG22	2.36	0.55
1:F:166:THR:HG22	1:F:171:HIS:C	2.24	0.55
2:H:73:LEU:HD13	2:H:73:LEU:C	2.26	0.55
2:H:89:GLN:HG2	2:H:103:ARG:HD2	1.87	0.55
2:I:17:PHE:CA	2:I:74:MET:HE1	2.36	0.55
2:J:71:VAL:CG2	2:K:99:ARG:HD3	2.30	0.55
1:A:92:ILE:CD1	1:A:323:LYS:CG	2.78	0.55
1:C:43:GLU:OE2	1:C:67:GLU:OE1	2.24	0.55
1:C:52:GLU:CG	1:C:88:LEU:HD22	2.25	0.55
1:C:124:GLU:CG	1:C:178:ALA:HB1	2.37	0.55
1:C:524:ILE:CG1	2:J:107:TYR:OH	2.54	0.55
1:D:253:GLY:HA3	1:D:258:GLN:NE2	2.22	0.55
1:D:320:TRP:HZ2	1:D:344:VAL:N	1.89	0.55
1:D:437:VAL:HG21	1:D:462:PHE:CZ	2.39	0.55
1:E:50:VAL:O	1:E:50:VAL:HG12	2.07	0.55
1:E:52:GLU:CG	1:E:88:LEU:HD22	2.25	0.55
1:E:437:VAL:HG21	1:E:462:PHE:CZ	2.39	0.55
1:F:320:TRP:CD1	1:F:340:SER:HA	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:382:ALA:O	1:F:383:SER:HB2	2.05	0.55
2:G:7:ASN:HD21	2:L:118:SER:CA	2.17	0.55
2:G:17:PHE:N	2:G:17:PHE:CD1	2.73	0.55
2:G:89:GLN:HG2	2:G:103:ARG:HD2	1.87	0.55
2:G:127:GLU:HA	2:H:8:THR:CB	2.37	0.55
2:H:17:PHE:CD1	2:H:17:PHE:N	2.73	0.55
2:J:71:VAL:H	2:K:99:ARG:HD3	1.69	0.55
2:L:26:ILE:HD11	2:L:61:ALA:HB1	1.88	0.55
1:A:124:GLU:CG	1:A:178:ALA:HB1	2.37	0.55
1:A:253:GLY:HA3	1:A:258:GLN:NE2	2.22	0.55
1:A:271:ASN:H	1:A:277:PRO:HD3	1.71	0.55
1:A:363:ARG:CD	1:A:391:LEU:HD12	2.36	0.55
1:A:428:GLU:O	1:A:429:SER:HB2	2.06	0.55
1:B:320:TRP:CH2	1:B:347:GLU:HG3	2.35	0.55
1:B:424:LEU:HD23	1:B:428:GLU:OE2	2.07	0.55
1:C:270:LEU:C	1:C:277:PRO:CD	2.69	0.55
1:C:320:TRP:CD1	1:C:340:SER:CA	2.90	0.55
1:D:320:TRP:CD1	1:D:340:SER:CA	2.90	0.55
1:D:382:ALA:O	1:D:383:SER:HB2	2.05	0.55
2:G:99:ARG:HD3	2:L:71:VAL:H	1.70	0.55
2:I:71:VAL:CG2	2:J:99:ARG:HD3	2.30	0.55
1:A:352:VAL:HG11	1:A:362:MET:HG3	1.77	0.55
1:B:253:GLY:HA3	1:B:258:GLN:NE2	2.21	0.55
1:B:258:GLN:O	1:B:259:THR:HG23	2.07	0.55
1:C:39:ILE:HA	1:C:326:LYS:HE2	1.89	0.55
1:C:166:THR:HG22	1:C:171:HIS:O	1.96	0.55
1:C:253:GLY:HA3	1:C:258:GLN:NE2	2.22	0.55
1:D:283:GLU:HA	1:D:287:GLU:CB	2.33	0.55
1:E:173:GLU:HB3	1:E:199:ALA:HB3	1.89	0.55
1:E:541:GLU:H	1:E:568:ILE:CG1	2.19	0.55
1:F:39:ILE:HA	1:F:326:LYS:HE2	1.89	0.55
1:F:254:ASP:C	1:F:256:GLU:H	2.11	0.55
2:H:127:GLU:HA	2:I:8:THR:CB	2.37	0.55
2:I:26:ILE:HD11	2:I:61:ALA:HB1	1.88	0.55
2:I:118:SER:CA	2:J:7:ASN:ND2	2.65	0.55
2:J:55:ALA:HB1	2:J:137:PHE:HD2	1.72	0.55
2:J:136:ASP:OD1	2:J:137:PHE:O	2.25	0.55
2:K:55:ALA:HB1	2:K:137:PHE:HD2	1.72	0.55
1:A:92:ILE:HD12	1:A:323:LYS:HG2	1.85	0.55
1:A:93:GLU:HG2	1:A:112:TYR:CE2	2.41	0.55
1:A:165:ALA:O	1:A:169:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:THR:O	1:A:434:PRO:CD	2.52	0.55
1:A:543:GLN:CD	1:A:568:ILE:HG23	2.27	0.55
1:B:254:ASP:C	1:B:256:GLU:H	2.11	0.55
1:C:185:VAL:N	1:C:186:GLY:HA2	2.16	0.55
1:C:424:LEU:HD23	1:C:428:GLU:OE2	2.07	0.55
1:C:431:THR:OG1	1:C:434:PRO:HG3	2.06	0.55
1:D:36:PHE:CE2	1:D:419:GLY:CA	2.87	0.55
1:D:120:GLN:O	1:D:181:LEU:HD12	2.06	0.55
1:D:431:THR:OG1	1:D:434:PRO:HG3	2.06	0.55
1:F:33:GLU:O	1:F:333:TYR:HD1	1.89	0.55
1:F:352:VAL:HG11	1:F:362:MET:HG3	1.77	0.55
1:F:363:ARG:CD	1:F:391:LEU:HD12	2.36	0.55
1:F:541:GLU:H	1:F:568:ILE:CG1	2.19	0.55
2:H:69:LYS:CE	2:I:139:VAL:O	2.55	0.55
2:K:26:ILE:HD11	2:K:61:ALA:HB1	1.89	0.55
1:A:173:GLU:HB3	1:A:199:ALA:HB3	1.89	0.55
1:B:363:ARG:CD	1:B:391:LEU:HD12	2.37	0.55
1:B:394:ASN:OD1	1:B:457:ILE:HD13	2.06	0.55
1:D:92:ILE:HD11	1:D:326:LYS:HZ2	1.42	0.55
1:D:445:GLU:HB3	1:D:462:PHE:HB2	1.89	0.55
1:E:431:THR:OG1	1:E:434:PRO:HG3	2.06	0.55
1:F:92:ILE:HD12	1:F:323:LYS:HG2	1.85	0.55
1:F:431:THR:OG1	1:F:434:PRO:HG3	2.06	0.55
2:H:136:ASP:OD1	2:H:137:PHE:O	2.25	0.55
2:I:55:ALA:HB1	2:I:137:PHE:HD2	1.72	0.55
1:A:254:ASP:C	1:A:256:GLU:H	2.11	0.54
1:A:424:LEU:HD23	1:A:428:GLU:OE2	2.07	0.54
1:A:445:GLU:HB3	1:A:462:PHE:HB2	1.89	0.54
1:A:545:PHE:O	1:A:545:PHE:CG	2.60	0.54
1:B:36:PHE:CZ	1:B:422:SER:CB	2.87	0.54
1:B:445:GLU:HB3	1:B:462:PHE:HB2	1.89	0.54
1:B:504:LEU:CD2	1:B:529:ILE:CG2	2.85	0.54
1:C:248:VAL:HA	1:C:262:ASN:OD1	2.07	0.54
1:C:254:ASP:C	1:C:256:GLU:H	2.11	0.54
1:C:264:ILE:CD1	1:C:269:GLN:HB2	2.16	0.54
1:D:541:GLU:H	1:D:568:ILE:CG1	2.19	0.54
1:E:92:ILE:HD12	1:E:323:LYS:HG2	1.85	0.54
1:E:253:GLY:HA3	1:E:258:GLN:NE2	2.21	0.54
1:F:43:GLU:OE2	1:F:67:GLU:OE1	2.24	0.54
2:H:55:ALA:HB1	2:H:137:PHE:HD2	1.72	0.54
2:I:136:ASP:OD1	2:I:137:PHE:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:130:VAL:HG23	2:K:6:GLN:HG2	1.72	0.54
1:A:524:ILE:HG12	2:H:107:TYR:CE2	2.41	0.54
1:B:174:GLU:C	1:B:175:THR:HG1	2.00	0.54
1:B:431:THR:OG1	1:B:434:PRO:HG3	2.06	0.54
1:B:437:VAL:HG21	1:B:462:PHE:CZ	2.39	0.54
1:B:504:LEU:HD22	1:B:529:ILE:HD12	1.88	0.54
1:C:394:ASN:HB2	1:C:457:ILE:HG12	1.89	0.54
1:C:553:ILE:HG13	1:C:555:GLU:O	2.07	0.54
1:E:445:GLU:HB3	1:E:462:PHE:HB2	1.89	0.54
1:E:504:LEU:CD2	1:E:529:ILE:CG2	2.85	0.54
1:F:173:GLU:HB3	1:F:199:ALA:HB3	1.89	0.54
1:F:327:PHE:CE2	1:F:351:PHE:HB2	2.42	0.54
2:G:69:LYS:CE	2:H:139:VAL:O	2.55	0.54
2:G:136:ASP:OD1	2:G:137:PHE:O	2.25	0.54
2:K:63:PHE:C	2:L:96:SER:H	2.10	0.54
2:K:69:LYS:CE	2:L:139:VAL:O	2.55	0.54
1:B:431:THR:O	1:B:434:PRO:CD	2.52	0.54
1:B:545:PHE:O	1:B:545:PHE:CG	2.60	0.54
1:B:553:ILE:HG13	1:B:555:GLU:O	2.07	0.54
1:C:134:LEU:HD21	1:C:137:ILE:HG23	1.87	0.54
1:C:445:GLU:HB3	1:C:462:PHE:HB2	1.89	0.54
1:D:50:VAL:O	1:D:50:VAL:HG12	2.07	0.54
1:D:504:LEU:CD2	1:D:529:ILE:CG2	2.85	0.54
1:D:540:ASN:C	1:D:568:ILE:HD11	2.25	0.54
1:E:76:TRP:CB	1:E:415:VAL:HG21	2.33	0.54
1:F:320:TRP:CD1	1:F:340:SER:CA	2.90	0.54
1:F:341:LYS:O	1:F:345:HIS:CE1	2.60	0.54
1:F:504:LEU:CD2	1:F:529:ILE:CG2	2.85	0.54
2:I:22:GLU:CB	2:I:70:PHE:CE2	2.50	0.54
2:J:26:ILE:HD11	2:J:61:ALA:HB1	1.89	0.54
1:B:43:GLU:OE2	1:B:67:GLU:OE1	2.24	0.54
1:B:248:VAL:HA	1:B:262:ASN:OD1	2.07	0.54
1:C:324:LEU:CD1	1:C:351:PHE:CZ	2.88	0.54
1:D:32:SER:CB	1:D:426:ILE:HG22	2.36	0.54
1:D:327:PHE:CE2	1:D:351:PHE:HB2	2.42	0.54
1:E:124:GLU:CG	1:E:178:ALA:HB1	2.37	0.54
1:F:124:GLU:CG	1:F:178:ALA:HB1	2.37	0.54
1:F:445:GLU:HB3	1:F:462:PHE:HB2	1.89	0.54
1:F:545:PHE:O	1:F:545:PHE:CG	2.61	0.54
2:G:139:VAL:O	2:L:69:LYS:CE	2.55	0.54
2:J:69:LYS:CE	2:K:139:VAL:O	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:127:GLU:C	2:K:8:THR:HB	2.22	0.54
2:J:130:VAL:CG2	2:K:6:GLN:HG2	2.18	0.54
2:L:136:ASP:OD1	2:L:137:PHE:O	2.25	0.54
1:A:92:ILE:HD11	1:A:326:LYS:HZ2	1.38	0.54
1:A:541:GLU:H	1:A:568:ILE:CG1	2.19	0.54
1:B:93:GLU:OE2	1:B:111:ILE:CB	2.50	0.54
1:B:124:GLU:CG	1:B:178:ALA:HB1	2.37	0.54
1:B:338:LEU:CG	1:B:414:ALA:HB3	2.17	0.54
1:B:338:LEU:CB	1:B:412:MET:HE2	2.36	0.54
1:D:553:ILE:HG13	1:D:555:GLU:O	2.07	0.54
1:E:165:ALA:O	1:E:169:VAL:HG22	2.07	0.54
1:E:270:LEU:HD12	1:E:270:LEU:O	2.08	0.54
1:E:341:LYS:O	1:E:345:HIS:CE1	2.60	0.54
1:E:452:LEU:HD22	1:E:459:SER:HB2	1.88	0.54
1:F:394:ASN:HB2	1:F:457:ILE:HG12	1.89	0.54
2:G:96:SER:H	2:L:63:PHE:C	2.10	0.54
2:I:63:PHE:C	2:J:96:SER:H	2.10	0.54
2:K:136:ASP:OD1	2:K:137:PHE:O	2.25	0.54
1:A:39:ILE:HA	1:A:326:LYS:HE2	1.88	0.54
1:A:248:VAL:HA	1:A:262:ASN:OD1	2.07	0.54
1:A:387:PRO:CD	1:A:390:SER:HB3	2.36	0.54
1:B:320:TRP:CD1	1:B:340:SER:CA	2.90	0.54
1:B:367:GLY:HA2	1:B:393:ALA:CB	2.30	0.54
1:C:50:VAL:HG12	1:C:50:VAL:O	2.07	0.54
1:C:512:PHE:HE1	1:C:517:THR:HG1	1.52	0.54
1:D:528:PHE:HZ	2:K:107:TYR:CB	2.05	0.54
1:E:111:ILE:HG13	1:E:112:TYR:HD1	1.73	0.54
1:F:169:VAL:O	1:F:170:GLU:HB2	2.07	0.54
1:F:248:VAL:HA	1:F:262:ASN:OD1	2.07	0.54
2:G:26:ILE:HD11	2:G:61:ALA:HB1	1.89	0.54
2:J:16:LEU:CD2	2:J:24:ALA:HB3	2.38	0.54
2:J:27:LYS:NZ	2:K:95:GLN:OE1	2.41	0.54
1:A:44:GLY:CA	1:A:189:GLU:OE1	2.56	0.54
1:A:258:GLN:O	1:A:259:THR:HG23	2.07	0.54
1:A:452:LEU:HD22	1:A:459:SER:HB2	1.88	0.54
1:B:44:GLY:CA	1:B:189:GLU:OE1	2.56	0.54
1:C:281:GLU:O	1:C:282:VAL:C	2.44	0.54
1:C:338:LEU:CG	1:C:366:VAL:C	2.52	0.54
1:C:387:PRO:CD	1:C:390:SER:HB3	2.36	0.54
1:C:504:LEU:HD22	1:C:529:ILE:HD12	1.88	0.54
1:D:504:LEU:HD22	1:D:529:ILE:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:TRP:CD1	1:E:340:SER:CA	2.90	0.54
1:E:428:GLU:O	1:E:429:SER:HB2	2.06	0.54
1:F:437:VAL:HG21	1:F:462:PHE:CZ	2.40	0.54
2:G:17:PHE:CA	2:G:74:MET:HE1	2.38	0.54
2:J:63:PHE:C	2:K:96:SER:H	2.10	0.54
2:J:70:PHE:H	2:K:99:ARG:CD	2.10	0.54
2:J:118:SER:CA	2:K:7:ASN:HD21	2.17	0.54
2:J:118:SER:CA	2:K:7:ASN:ND2	2.65	0.54
1:A:114:ASN:CA	1:A:137:ILE:HD13	2.30	0.54
1:A:320:TRP:CD1	1:A:340:SER:CA	2.90	0.54
1:A:504:LEU:HD22	1:A:529:ILE:HD12	1.88	0.54
1:D:111:ILE:HG13	1:D:112:TYR:HD1	1.73	0.54
1:E:111:ILE:HD12	1:E:112:TYR:HE1	1.71	0.54
1:E:248:VAL:HA	1:E:262:ASN:OD1	2.07	0.54
1:E:270:LEU:HB2	1:E:274:GLY:HA2	1.89	0.54
1:F:424:LEU:HD23	1:F:428:GLU:OE2	2.07	0.54
2:G:6:GLN:HG2	2:L:130:VAL:HG23	1.72	0.54
2:G:63:PHE:C	2:H:96:SER:H	2.10	0.54
2:I:16:LEU:CD2	2:I:24:ALA:HB3	2.38	0.54
2:K:129:GLU:C	2:L:6:GLN:CB	2.28	0.54
1:B:166:THR:HG22	1:B:172:ASP:CA	2.38	0.54
1:B:560:ARG:HB2	1:B:579:VAL:HA	1.90	0.54
1:C:428:GLU:O	1:C:429:SER:HB2	2.06	0.54
1:E:39:ILE:HA	1:E:326:LYS:HE2	1.88	0.54
1:F:36:PHE:CE2	1:F:419:GLY:CA	2.87	0.54
1:F:253:GLY:HA3	1:F:258:GLN:NE2	2.22	0.54
2:G:55:ALA:HB1	2:G:137:PHE:HD2	1.72	0.54
2:H:27:LYS:NZ	2:I:95:GLN:OE1	2.41	0.54
1:A:394:ASN:HB2	1:A:457:ILE:HG12	1.89	0.54
1:B:50:VAL:O	1:B:50:VAL:HG12	2.07	0.54
1:C:169:VAL:O	1:C:170:GLU:HB2	2.07	0.54
1:D:169:VAL:O	1:D:170:GLU:HB2	2.07	0.54
1:D:268:GLU:O	1:D:269:GLN:C	2.44	0.54
1:E:93:GLU:OE2	1:E:111:ILE:C	2.45	0.54
1:E:363:ARG:CD	1:E:391:LEU:HD12	2.37	0.54
1:E:394:ASN:HB2	1:E:457:ILE:HG12	1.89	0.54
1:F:169:VAL:HB	1:F:286:GLU:CD	2.20	0.54
2:G:71:VAL:CG2	2:H:99:ARG:HD3	2.30	0.54
2:G:99:ARG:HD3	2:L:71:VAL:CG2	2.30	0.54
2:K:118:SER:CA	2:L:7:ASN:HD21	2.17	0.54
1:A:43:GLU:OE2	1:A:67:GLU:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:HD12	1:A:270:LEU:O	2.08	0.53
1:A:324:LEU:CD1	1:A:351:PHE:CZ	2.88	0.53
1:A:553:ILE:HG13	1:A:555:GLU:O	2.07	0.53
1:B:270:LEU:HB2	1:B:274:GLY:HA2	1.89	0.53
1:C:270:LEU:HD12	1:C:270:LEU:O	2.08	0.53
1:C:545:PHE:O	1:C:545:PHE:CG	2.61	0.53
1:C:560:ARG:HB2	1:C:579:VAL:HA	1.90	0.53
1:D:452:LEU:HD22	1:D:459:SER:HB2	1.89	0.53
1:D:453:ASN:O	1:D:454:GLU:HB2	2.08	0.53
1:D:538:ARG:NH1	2:K:34:GLU:OE1	2.42	0.53
1:E:264:ILE:CG2	1:E:269:GLN:HB3	2.16	0.53
1:E:367:GLY:HA2	1:E:393:ALA:CB	2.30	0.53
1:E:553:ILE:HG13	1:E:555:GLU:O	2.07	0.53
1:E:560:ARG:HB2	1:E:579:VAL:HA	1.90	0.53
1:F:270:LEU:HD12	1:F:270:LEU:O	2.08	0.53
1:F:452:LEU:HD22	1:F:459:SER:HB2	1.89	0.53
1:F:560:ARG:HB2	1:F:579:VAL:HA	1.91	0.53
2:K:16:LEU:HD12	2:K:78:VAL:HB	1.90	0.53
2:L:55:ALA:HB1	2:L:137:PHE:HD2	1.72	0.53
1:C:453:ASN:O	1:C:454:GLU:HB2	2.08	0.53
1:D:45:GLY:CA	1:D:111:ILE:CG1	2.60	0.53
1:D:424:LEU:HD23	1:D:428:GLU:OE2	2.07	0.53
1:E:254:ASP:C	1:E:256:GLU:H	2.11	0.53
1:E:258:GLN:O	1:E:259:THR:HG23	2.07	0.53
1:E:501:VAL:HG13	1:E:578:LEU:CD1	2.38	0.53
1:E:545:PHE:O	1:E:545:PHE:CG	2.61	0.53
1:F:166:THR:HG22	1:F:172:ASP:CA	2.38	0.53
2:H:63:PHE:C	2:I:96:SER:H	2.10	0.53
2:I:69:LYS:CE	2:J:139:VAL:O	2.55	0.53
2:J:16:LEU:HD12	2:J:78:VAL:HB	1.91	0.53
2:K:16:LEU:CD2	2:K:24:ALA:HB3	2.38	0.53
2:K:18:LEU:HB2	2:K:74:MET:HE3	1.89	0.53
1:A:166:THR:HG22	1:A:172:ASP:CA	2.38	0.53
1:A:327:PHE:CE2	1:A:351:PHE:HB2	2.42	0.53
1:A:560:ARG:HB2	1:A:579:VAL:HA	1.90	0.53
1:B:43:GLU:OE2	1:B:67:GLU:CB	2.56	0.53
1:B:93:GLU:OE2	1:B:111:ILE:C	2.45	0.53
1:C:270:LEU:HB2	1:C:274:GLY:HA2	1.89	0.53
1:D:44:GLY:CA	1:D:189:GLU:OE1	2.56	0.53
1:D:76:TRP:CB	1:D:415:VAL:HG21	2.33	0.53
1:D:248:VAL:HA	1:D:262:ASN:OD1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:270:LEU:HB2	1:D:274:GLY:HA2	1.89	0.53
1:E:424:LEU:HD23	1:E:428:GLU:OE2	2.07	0.53
1:F:43:GLU:OE2	1:F:67:GLU:CB	2.56	0.53
1:F:553:ILE:HG13	1:F:555:GLU:O	2.07	0.53
2:G:128:GLU:N	2:H:8:THR:HG22	1.96	0.53
2:H:118:SER:CA	2:I:7:ASN:ND2	2.65	0.53
2:K:71:VAL:CG2	2:L:99:ARG:HD3	2.30	0.53
1:A:93:GLU:OE2	1:A:111:ILE:C	2.46	0.53
1:A:453:ASN:O	1:A:454:GLU:HB2	2.08	0.53
1:B:76:TRP:O	1:B:415:VAL:HG21	1.80	0.53
1:B:543:GLN:CD	1:B:568:ILE:HG23	2.27	0.53
1:C:166:THR:HG22	1:C:172:ASP:CA	2.39	0.53
1:C:352:VAL:HG11	1:C:362:MET:HG3	1.77	0.53
1:D:341:LYS:O	1:D:345:HIS:CE1	2.60	0.53
1:F:453:ASN:O	1:F:454:GLU:HB2	2.08	0.53
2:G:95:GLN:OE1	2:L:27:LYS:NZ	2.41	0.53
2:H:68:SER:CB	2:I:102:GLU:OE2	2.56	0.53
1:A:341:LYS:O	1:A:345:HIS:CE1	2.60	0.53
1:B:169:VAL:O	1:B:170:GLU:HB2	2.07	0.53
1:B:536:LYS:CB	1:B:542:ILE:HD12	2.39	0.53
1:D:92:ILE:HD12	1:D:323:LYS:HG2	1.85	0.53
1:D:124:GLU:CG	1:D:178:ALA:HB1	2.37	0.53
1:D:271:ASN:H	1:D:277:PRO:HD3	1.71	0.53
1:D:324:LEU:CD1	1:D:351:PHE:CZ	2.88	0.53
1:D:543:GLN:CD	1:D:568:ILE:HG23	2.27	0.53
1:F:36:PHE:CZ	1:F:422:SER:CB	2.87	0.53
1:F:111:ILE:HG13	1:F:112:TYR:HD1	1.73	0.53
2:I:130:VAL:HG23	2:J:6:GLN:HG2	1.72	0.53
2:K:69:LYS:HE2	2:L:139:VAL:O	2.09	0.53
2:L:6:GLN:C	2:L:8:THR:H	2.12	0.53
1:B:39:ILE:HA	1:B:326:LYS:HE2	1.89	0.53
1:D:545:PHE:O	1:D:545:PHE:CG	2.61	0.53
1:E:320:TRP:CH2	1:E:347:GLU:HG3	2.35	0.53
1:F:278:SER:O	1:F:279:ASN:C	2.46	0.53
2:G:24:ALA:CB	2:G:71:VAL:HG13	1.91	0.53
2:I:27:LYS:NZ	2:J:95:GLN:OE1	2.41	0.53
2:J:69:LYS:HE2	2:K:139:VAL:O	2.09	0.53
1:A:77:GLY:CA	1:A:80:PRO:CD	2.80	0.53
1:B:38:LEU:HD12	1:B:76:TRP:CZ2	2.44	0.53
1:B:453:ASN:O	1:B:454:GLU:HB2	2.08	0.53
1:B:501:VAL:HG13	1:B:578:LEU:CD1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:44:GLY:CA	1:C:189:GLU:OE1	2.56	0.53
1:C:367:GLY:HA2	1:C:393:ALA:CB	2.30	0.53
1:D:524:ILE:HD11	2:K:107:TYR:OH	2.08	0.53
1:F:44:GLY:CA	1:F:189:GLU:OE1	2.55	0.53
2:K:6:GLN:C	2:K:8:THR:H	2.12	0.53
2:K:128:GLU:CG	2:L:8:THR:CG2	2.86	0.53
1:A:38:LEU:CD1	1:A:76:TRP:CZ2	2.76	0.53
1:A:111:ILE:HG13	1:A:112:TYR:HD1	1.73	0.53
1:A:113:GLY:HA2	1:A:189:GLU:HB2	1.90	0.53
1:A:169:VAL:O	1:A:170:GLU:HB2	2.07	0.53
1:A:338:LEU:CG	1:A:366:VAL:C	2.52	0.53
1:B:166:THR:HG22	1:B:171:HIS:O	1.96	0.53
1:B:173:GLU:CG	1:B:201:ASP:OD2	2.57	0.53
1:B:324:LEU:CD1	1:B:351:PHE:CZ	2.88	0.53
1:B:432:PHE:CD2	1:B:433:LYS:HB3	2.44	0.53
1:C:504:LEU:CD2	1:C:529:ILE:CG2	2.85	0.53
1:D:166:THR:HG22	1:D:172:ASP:CA	2.38	0.53
1:D:270:LEU:HD12	1:D:270:LEU:O	2.08	0.53
1:E:453:ASN:O	1:E:454:GLU:HB2	2.08	0.53
1:F:92:ILE:HG12	1:F:326:LYS:HZ2	1.62	0.53
2:I:88:LEU:C	2:I:88:LEU:CD2	2.69	0.53
2:J:6:GLN:C	2:J:8:THR:H	2.12	0.53
2:K:127:GLU:C	2:L:8:THR:HB	2.22	0.53
1:A:39:ILE:HD12	1:A:327:PHE:H	1.74	0.53
1:B:92:ILE:CG1	1:B:326:LYS:CD	2.73	0.53
1:B:111:ILE:HG13	1:B:112:TYR:HD1	1.73	0.53
1:B:270:LEU:HD12	1:B:270:LEU:O	2.08	0.53
1:B:540:ASN:O	1:B:541:GLU:HB2	2.09	0.53
1:C:43:GLU:OE2	1:C:67:GLU:CB	2.57	0.53
1:C:173:GLU:CG	1:C:201:ASP:OD2	2.57	0.53
1:C:437:VAL:HG21	1:C:462:PHE:CZ	2.40	0.53
1:D:92:ILE:HG12	1:D:326:LYS:HZ2	1.63	0.53
1:D:93:GLU:OE2	1:D:111:ILE:C	2.45	0.53
1:E:113:GLY:HA2	1:E:189:GLU:HB2	1.90	0.53
1:F:38:LEU:CD1	1:F:76:TRP:CZ2	2.76	0.53
1:F:271:ASN:H	1:F:277:PRO:HD3	1.71	0.53
1:F:338:LEU:HD12	1:F:414:ALA:HB2	0.58	0.53
2:H:69:LYS:HE2	2:I:139:VAL:O	2.09	0.53
2:J:27:LYS:H	2:K:96:SER:HA	1.73	0.53
2:L:16:LEU:HD12	2:L:78:VAL:HB	1.90	0.53
1:A:38:LEU:O	1:A:89:ALA:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:ILE:HD12	1:A:112:TYR:HE1	1.71	0.53
1:A:320:TRP:CH2	1:A:347:GLU:HG3	2.35	0.53
1:A:501:VAL:HG13	1:A:578:LEU:CD1	2.38	0.53
1:B:38:LEU:O	1:B:89:ALA:HA	2.09	0.53
1:C:51:TYR:OH	1:C:62:LEU:HD11	2.09	0.53
1:C:432:PHE:CD2	1:C:433:LYS:HB3	2.44	0.53
1:D:254:ASP:C	1:D:256:GLU:H	2.11	0.53
1:D:560:ARG:HB2	1:D:579:VAL:HA	1.90	0.53
1:E:51:TYR:OH	1:E:62:LEU:HD11	2.09	0.53
1:E:166:THR:HG22	1:E:172:ASP:CA	2.38	0.53
1:E:361:PRO:O	1:E:362:MET:HB3	2.09	0.53
1:F:320:TRP:CH2	1:F:347:GLU:HG3	2.35	0.53
2:G:69:LYS:HE2	2:H:139:VAL:O	2.09	0.53
2:H:6:GLN:C	2:H:8:THR:H	2.12	0.53
2:H:16:LEU:CD2	2:H:24:ALA:HB3	2.38	0.53
2:H:128:GLU:CG	2:I:8:THR:CG2	2.86	0.53
2:I:16:LEU:HD12	2:I:78:VAL:HB	1.90	0.53
2:K:27:LYS:NZ	2:L:95:GLN:OE1	2.41	0.53
2:K:90:ALA:O	2:K:103:ARG:HG3	2.09	0.53
1:A:76:TRP:O	1:A:415:VAL:HG21	1.80	0.52
1:B:394:ASN:HB2	1:B:457:ILE:HG12	1.89	0.52
1:C:111:ILE:HG13	1:C:112:TYR:HD1	1.73	0.52
1:D:51:TYR:OH	1:D:62:LEU:HD11	2.10	0.52
1:D:92:ILE:CD1	1:D:323:LYS:CG	2.78	0.52
1:D:394:ASN:HB2	1:D:457:ILE:HG12	1.89	0.52
1:D:432:PHE:CD2	1:D:433:LYS:HB3	2.44	0.52
1:D:536:LYS:CB	1:D:542:ILE:HD12	2.39	0.52
1:F:327:PHE:CE2	1:F:351:PHE:CB	2.85	0.52
2:G:90:ALA:O	2:G:103:ARG:HG3	2.09	0.52
2:K:27:LYS:H	2:L:96:SER:HA	1.72	0.52
1:A:173:GLU:CG	1:A:201:ASP:OD2	2.57	0.52
1:A:270:LEU:HB2	1:A:274:GLY:HA2	1.89	0.52
1:A:432:PHE:CD2	1:A:433:LYS:HB3	2.44	0.52
1:B:264:ILE:CG2	1:B:269:GLN:HB3	2.16	0.52
1:C:38:LEU:O	1:C:89:ALA:HA	2.09	0.52
1:D:43:GLU:OE2	1:D:67:GLU:CB	2.57	0.52
1:D:47:PRO:CB	1:D:93:GLU:CD	2.37	0.52
1:E:43:GLU:OE2	1:E:67:GLU:CB	2.56	0.52
1:E:518:ILE:H	1:E:521:SER:HB2	1.74	0.52
2:G:6:GLN:C	2:G:8:THR:H	2.12	0.52
2:G:99:ARG:CD	2:L:70:PHE:H	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:130:VAL:CB	2:H:6:GLN:HG2	2.39	0.52
2:L:16:LEU:CD2	2:L:24:ALA:HB3	2.38	0.52
1:A:435:LEU:O	1:A:436:ARG:HB2	2.10	0.52
1:A:536:LYS:CB	1:A:542:ILE:HD12	2.39	0.52
1:B:113:GLY:HA2	1:B:189:GLU:HB2	1.90	0.52
1:B:435:LEU:O	1:B:436:ARG:HB2	2.09	0.52
1:C:39:ILE:HD12	1:C:327:PHE:H	1.74	0.52
1:C:110:LYS:NZ	1:C:113:GLY:CA	2.72	0.52
1:C:282:VAL:HG12	1:C:287:GLU:HG2	0.53	0.52
1:C:428:GLU:N	1:C:469:THR:HG21	2.25	0.52
1:C:540:ASN:C	1:C:568:ILE:HD11	2.25	0.52
1:D:282:VAL:HG12	1:D:287:GLU:HG2	0.53	0.52
1:D:435:LEU:O	1:D:436:ARG:HB2	2.09	0.52
1:E:33:GLU:O	1:E:333:TYR:HD1	1.90	0.52
1:F:45:GLY:HA3	1:F:111:ILE:HD11	1.60	0.52
1:F:76:TRP:CB	1:F:415:VAL:HG21	2.33	0.52
1:F:111:ILE:HD12	1:F:112:TYR:HE1	1.71	0.52
1:F:258:GLN:O	1:F:259:THR:HG23	2.07	0.52
1:F:270:LEU:HB2	1:F:274:GLY:HA2	1.89	0.52
1:F:361:PRO:O	1:F:362:MET:HB3	2.09	0.52
2:H:24:ALA:HA	2:H:71:VAL:CG2	2.40	0.52
2:I:68:SER:CB	2:J:102:GLU:OE2	2.56	0.52
2:I:69:LYS:HE2	2:J:139:VAL:O	2.09	0.52
2:L:90:ALA:O	2:L:103:ARG:HG3	2.09	0.52
1:B:51:TYR:OH	1:B:62:LEU:HD11	2.10	0.52
1:B:341:LYS:O	1:B:345:HIS:CE1	2.60	0.52
1:D:428:GLU:N	1:D:469:THR:HG21	2.25	0.52
1:E:114:ASN:CA	1:E:137:ILE:HD13	2.30	0.52
1:E:169:VAL:O	1:E:170:GLU:HB2	2.07	0.52
1:E:432:PHE:CD2	1:E:433:LYS:HB3	2.44	0.52
1:F:51:TYR:OH	1:F:62:LEU:HD11	2.09	0.52
1:F:77:GLY:CA	1:F:80:PRO:CD	2.80	0.52
2:G:6:GLN:HG2	2:L:130:VAL:CG2	2.18	0.52
2:G:16:LEU:CD2	2:G:24:ALA:HB3	2.38	0.52
2:G:27:LYS:NZ	2:H:95:GLN:OE1	2.41	0.52
2:I:105:THR:C	2:I:106:LEU:HD22	2.30	0.52
2:J:127:GLU:HA	2:K:8:THR:CB	2.37	0.52
1:A:320:TRP:CE2	1:A:343:SER:C	2.74	0.52
1:B:45:GLY:HA3	1:B:111:ILE:HD11	1.60	0.52
1:B:268:GLU:O	1:B:269:GLN:C	2.44	0.52
1:B:327:PHE:CE2	1:B:351:PHE:HB2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:501:VAL:HG13	1:C:578:LEU:CD1	2.38	0.52
1:D:185:VAL:N	1:D:186:GLY:HA2	2.16	0.52
1:E:169:VAL:HB	1:E:286:GLU:CD	2.20	0.52
1:E:282:VAL:HG12	1:E:287:GLU:HG2	0.53	0.52
1:F:38:LEU:O	1:F:89:ALA:HA	2.09	0.52
1:F:432:PHE:CD2	1:F:433:LYS:HB3	2.44	0.52
2:G:89:GLN:OE1	2:G:103:ARG:NE	2.43	0.52
2:L:89:GLN:OE1	2:L:103:ARG:NE	2.43	0.52
1:A:51:TYR:OH	1:A:62:LEU:HD11	2.10	0.52
1:B:543:GLN:HG3	1:B:568:ILE:HG12	1.92	0.52
1:C:76:TRP:CB	1:C:415:VAL:HG21	2.33	0.52
1:D:83:THR:OG1	1:D:419:GLY:C	2.48	0.52
1:E:173:GLU:CG	1:E:201:ASP:OD2	2.57	0.52
1:F:264:ILE:CD1	1:F:269:GLN:HB3	2.17	0.52
2:G:8:THR:CB	2:L:127:GLU:HA	2.37	0.52
2:G:16:LEU:HD12	2:G:78:VAL:HB	1.91	0.52
2:H:16:LEU:HD12	2:H:78:VAL:HB	1.90	0.52
2:I:24:ALA:CB	2:I:71:VAL:CB	2.86	0.52
2:I:29:PHE:HB2	2:I:61:ALA:CB	2.40	0.52
2:I:89:GLN:OE1	2:I:103:ARG:NE	2.43	0.52
2:J:24:ALA:CB	2:J:71:VAL:CB	2.86	0.52
2:K:24:ALA:HA	2:K:71:VAL:CG2	2.40	0.52
2:K:89:GLN:OE1	2:K:103:ARG:NE	2.43	0.52
1:B:36:PHE:CE2	1:B:419:GLY:CA	2.87	0.52
1:B:278:SER:O	1:B:279:ASN:C	2.46	0.52
1:C:93:GLU:CD	1:C:140:ASP:CB	2.77	0.52
1:C:113:GLY:HA2	1:C:189:GLU:HB2	1.90	0.52
1:C:341:LYS:O	1:C:345:HIS:CE1	2.60	0.52
1:D:38:LEU:O	1:D:89:ALA:HA	2.09	0.52
1:D:113:GLY:HA2	1:D:189:GLU:HB2	1.90	0.52
1:E:32:SER:CB	1:E:426:ILE:HG22	2.36	0.52
1:F:39:ILE:HD12	1:F:327:PHE:H	1.74	0.52
1:F:113:GLY:HA2	1:F:189:GLU:HB2	1.90	0.52
1:F:518:ILE:H	1:F:521:SER:HB2	1.74	0.52
1:F:543:GLN:HG3	1:F:568:ILE:HG12	1.92	0.52
2:G:139:VAL:O	2:L:69:LYS:HE2	2.09	0.52
2:H:90:ALA:O	2:H:103:ARG:HG3	2.09	0.52
2:H:105:THR:C	2:H:106:LEU:HD22	2.30	0.52
2:J:29:PHE:HB2	2:J:61:ALA:CB	2.40	0.52
2:L:24:ALA:HA	2:L:71:VAL:CG2	2.40	0.52
1:A:106:LYS:HZ1	1:A:146:VAL:HG11	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:543:GLN:HG3	1:A:568:ILE:HG12	1.92	0.52
1:C:173:GLU:OE1	1:C:173:GLU:N	2.43	0.52
1:D:270:LEU:CG	1:D:274:GLY:HA2	2.40	0.52
1:E:268:GLU:O	1:E:269:GLN:C	2.44	0.52
1:F:92:ILE:HG12	1:F:326:LYS:HB2	1.92	0.52
1:F:285:GLY:O	1:F:287:GLU:N	2.43	0.52
2:K:68:SER:CB	2:L:102:GLU:OE2	2.56	0.52
1:A:500:LEU:HD13	1:A:532:TYR:HE2	1.75	0.52
1:A:504:LEU:CD2	1:A:529:ILE:CG2	2.85	0.52
1:B:39:ILE:HD12	1:B:327:PHE:H	1.74	0.52
1:B:92:ILE:CD1	1:B:323:LYS:CB	2.88	0.52
1:B:327:PHE:CE2	1:B:351:PHE:CB	2.85	0.52
1:C:327:PHE:HD2	1:C:351:PHE:HE2	1.50	0.52
1:C:366:VAL:N	1:C:391:LEU:O	2.43	0.52
1:C:399:VAL:HG21	1:C:411:TYR:CD1	2.43	0.52
1:E:38:LEU:O	1:E:89:ALA:HA	2.09	0.52
1:E:543:GLN:HG3	1:E:568:ILE:HG12	1.92	0.52
1:F:93:GLU:OE2	1:F:111:ILE:C	2.45	0.52
1:F:173:GLU:CG	1:F:201:ASP:OD2	2.57	0.52
1:F:338:LEU:CG	1:F:366:VAL:C	2.52	0.52
1:F:501:VAL:HG13	1:F:578:LEU:CD1	2.38	0.52
2:G:24:ALA:HA	2:G:71:VAL:CG2	2.40	0.52
2:G:102:GLU:OE2	2:L:68:SER:CB	2.56	0.52
2:K:29:PHE:HB2	2:K:61:ALA:CB	2.40	0.52
1:A:285:GLY:O	1:A:287:GLU:N	2.43	0.52
1:B:110:LYS:NZ	1:B:113:GLY:CA	2.72	0.52
1:B:399:VAL:HG21	1:B:411:TYR:CD1	2.43	0.52
1:D:110:LYS:NZ	1:D:113:GLY:CA	2.72	0.52
1:D:121:VAL:CG2	1:D:132:LEU:CD2	2.88	0.52
1:D:173:GLU:CG	1:D:201:ASP:OD2	2.57	0.52
1:D:366:VAL:N	1:D:391:LEU:O	2.43	0.52
1:D:500:LEU:HD13	1:D:532:TYR:HE2	1.75	0.52
1:E:92:ILE:CD1	1:E:323:LYS:CB	2.88	0.52
1:F:83:THR:OG1	1:F:419:GLY:C	2.48	0.52
1:F:114:ASN:CA	1:F:137:ILE:HD13	2.30	0.52
1:F:282:VAL:HG12	1:F:287:GLU:HG2	0.53	0.52
1:F:387:PRO:CD	1:F:390:SER:HB3	2.36	0.52
2:J:89:GLN:OE1	2:J:103:ARG:NE	2.43	0.52
1:A:173:GLU:OE1	1:A:173:GLU:N	2.43	0.51
1:B:121:VAL:CG2	1:B:132:LEU:CD2	2.88	0.51
1:B:282:VAL:CG1	1:B:287:GLU:CD	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:VAL:CG2	1:C:132:LEU:CD2	2.89	0.51
1:C:338:LEU:HD12	1:C:414:ALA:HB2	0.58	0.51
1:C:435:LEU:O	1:C:436:ARG:HB2	2.09	0.51
1:D:38:LEU:HD12	1:D:76:TRP:CZ2	2.44	0.51
1:D:169:VAL:HB	1:D:286:GLU:CD	2.20	0.51
1:E:83:THR:OG1	1:E:419:GLY:C	2.48	0.51
1:E:271:ASN:H	1:E:277:PRO:HD3	1.71	0.51
1:E:285:GLY:O	1:E:287:GLU:N	2.43	0.51
1:F:134:LEU:HD21	1:F:137:ILE:HG23	1.87	0.51
2:G:8:THR:CG2	2:L:128:GLU:CG	2.86	0.51
2:J:88:LEU:HD23	2:J:88:LEU:O	2.10	0.51
1:B:428:GLU:N	1:B:469:THR:HG21	2.25	0.51
1:C:83:THR:OG1	1:C:419:GLY:C	2.48	0.51
1:C:270:LEU:CG	1:C:274:GLY:HA2	2.40	0.51
1:D:518:ILE:H	1:D:521:SER:HB2	1.74	0.51
1:E:92:ILE:HG12	1:E:326:LYS:HB2	1.92	0.51
1:E:366:VAL:N	1:E:391:LEU:O	2.43	0.51
2:I:90:ALA:O	2:I:103:ARG:HG3	2.09	0.51
2:K:105:THR:C	2:K:106:LEU:HD22	2.30	0.51
2:L:17:PHE:CA	2:L:74:MET:HE1	2.39	0.51
1:A:45:GLY:HA3	1:A:111:ILE:HD11	1.60	0.51
1:B:83:THR:OG1	1:B:419:GLY:C	2.48	0.51
1:B:173:GLU:OE1	1:B:173:GLU:N	2.43	0.51
1:B:270:LEU:CB	1:B:274:GLY:HA2	2.41	0.51
1:C:528:PHE:HE1	2:J:107:TYR:CB	2.00	0.51
1:C:538:ARG:NH1	2:J:34:GLU:OE1	2.44	0.51
1:D:93:GLU:CD	1:D:140:ASP:CB	2.77	0.51
1:E:338:LEU:HD12	1:E:414:ALA:HB2	0.58	0.51
1:E:500:LEU:HD13	1:E:532:TYR:HE2	1.75	0.51
1:F:500:LEU:HD13	1:F:532:TYR:HE2	1.75	0.51
2:G:128:GLU:CG	2:H:8:THR:HG21	2.41	0.51
2:H:17:PHE:HA	2:H:74:MET:HE1	1.91	0.51
2:H:24:ALA:CB	2:H:71:VAL:CB	2.86	0.51
2:H:29:PHE:HB2	2:H:61:ALA:CB	2.40	0.51
2:H:130:VAL:CB	2:I:6:GLN:HG2	2.40	0.51
2:J:105:THR:C	2:J:106:LEU:HD22	2.30	0.51
2:K:24:ALA:CB	2:K:71:VAL:CB	2.86	0.51
2:L:105:THR:C	2:L:106:LEU:HD22	2.30	0.51
1:A:92:ILE:HG12	1:A:326:LYS:HB2	1.92	0.51
1:A:282:VAL:HG12	1:A:287:GLU:HG2	0.53	0.51
1:B:52:GLU:CG	1:B:88:LEU:HD22	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:174:GLU:C	1:C:175:THR:HG1	1.99	0.51
1:C:260:ALA:C	1:C:261:TYR:CD1	2.84	0.51
1:C:270:LEU:CB	1:C:274:GLY:HA2	2.41	0.51
1:C:543:GLN:HG3	1:C:568:ILE:HG12	1.92	0.51
1:D:367:GLY:HA2	1:D:393:ALA:CB	2.30	0.51
1:D:527:ASP:OD2	2:K:136:ASP:OD2	2.29	0.51
1:E:435:LEU:O	1:E:436:ARG:HB2	2.09	0.51
2:H:89:GLN:OE1	2:H:103:ARG:NE	2.43	0.51
2:I:24:ALA:HA	2:I:71:VAL:CG2	2.40	0.51
2:I:127:GLU:HA	2:J:8:THR:CB	2.37	0.51
2:J:128:GLU:CG	2:K:8:THR:CG2	2.86	0.51
2:L:29:PHE:HB2	2:L:61:ALA:CB	2.40	0.51
1:A:270:LEU:CG	1:A:274:GLY:HA2	2.40	0.51
1:B:352:VAL:CG2	1:B:364:ALA:HB2	2.40	0.51
1:B:500:LEU:HD13	1:B:532:TYR:HE2	1.75	0.51
1:C:36:PHE:CE2	1:C:419:GLY:CA	2.87	0.51
1:C:270:LEU:HD13	1:C:274:GLY:H	1.76	0.51
1:C:352:VAL:CG2	1:C:364:ALA:HB2	2.40	0.51
1:C:500:LEU:HD13	1:C:532:TYR:HE2	1.75	0.51
1:D:245:ALA:O	1:D:264:ILE:HA	2.11	0.51
1:D:260:ALA:C	1:D:261:TYR:CD1	2.84	0.51
1:D:270:LEU:HD13	1:D:274:GLY:H	1.76	0.51
1:D:399:VAL:HG21	1:D:411:TYR:CD1	2.43	0.51
1:E:38:LEU:HD12	1:E:76:TRP:CZ2	2.44	0.51
1:E:264:ILE:HG23	1:E:278:SER:HA	1.92	0.51
1:E:270:LEU:CB	1:E:274:GLY:HA2	2.41	0.51
1:E:327:PHE:CE2	1:E:351:PHE:CB	2.85	0.51
2:G:105:THR:C	2:G:106:LEU:HD22	2.30	0.51
2:I:27:LYS:H	2:J:96:SER:HA	1.72	0.51
1:B:270:LEU:HD13	1:B:274:GLY:H	1.76	0.51
1:B:366:VAL:N	1:B:391:LEU:O	2.43	0.51
1:D:258:GLN:O	1:D:259:THR:HG23	2.07	0.51
1:D:361:PRO:O	1:D:362:MET:HB3	2.09	0.51
1:E:270:LEU:CG	1:E:274:GLY:HA2	2.40	0.51
1:F:268:GLU:O	1:F:269:GLN:C	2.44	0.51
1:F:270:LEU:HD13	1:F:274:GLY:H	1.76	0.51
1:F:270:LEU:CB	1:F:274:GLY:HA2	2.41	0.51
1:F:270:LEU:CG	1:F:274:GLY:HA2	2.40	0.51
2:J:90:ALA:O	2:J:103:ARG:HG3	2.09	0.51
1:A:83:THR:OG1	1:A:419:GLY:C	2.48	0.51
1:A:264:ILE:CD1	1:A:269:GLN:HB3	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:HD13	1:A:274:GLY:H	1.76	0.51
1:A:270:LEU:CB	1:A:274:GLY:HA2	2.41	0.51
1:A:327:PHE:CE2	1:A:351:PHE:CB	2.85	0.51
1:A:399:VAL:HG21	1:A:411:TYR:CD1	2.43	0.51
1:B:270:LEU:CG	1:B:274:GLY:HA2	2.40	0.51
1:B:285:GLY:O	1:B:287:GLU:N	2.43	0.51
1:B:540:ASN:C	1:B:568:ILE:HD11	2.25	0.51
1:D:285:GLY:O	1:D:287:GLU:N	2.43	0.51
1:E:44:GLY:CA	1:E:189:GLU:OE1	2.55	0.51
1:E:82:TYR:HE2	1:E:433:LYS:CD	2.23	0.51
1:E:245:ALA:O	1:E:264:ILE:HA	2.11	0.51
1:F:260:ALA:C	1:F:261:TYR:CD1	2.84	0.51
2:G:8:THR:HG21	2:L:128:GLU:CG	2.41	0.51
2:J:68:SER:CB	2:K:102:GLU:OE2	2.56	0.51
1:B:169:VAL:HB	1:B:286:GLU:CD	2.20	0.51
1:B:245:ALA:O	1:B:264:ILE:HA	2.11	0.51
1:B:281:GLU:O	1:B:282:VAL:C	2.44	0.51
1:C:92:ILE:CD1	1:C:323:LYS:CB	2.88	0.51
1:C:250:ALA:HB1	1:C:252:PHE:CZ	2.46	0.51
1:C:264:ILE:HG23	1:C:278:SER:HA	1.92	0.51
1:C:361:PRO:O	1:C:362:MET:HB3	2.09	0.51
1:D:82:TYR:HE2	1:D:433:LYS:CD	2.23	0.51
1:D:270:LEU:CB	1:D:274:GLY:HA2	2.41	0.51
1:D:327:PHE:HD2	1:D:351:PHE:HE2	1.50	0.51
1:D:352:VAL:CG2	1:D:364:ALA:HB2	2.40	0.51
1:D:543:GLN:HG3	1:D:568:ILE:HG12	1.92	0.51
1:E:260:ALA:C	1:E:261:TYR:CD1	2.84	0.51
1:E:270:LEU:HD13	1:E:274:GLY:H	1.76	0.51
1:E:543:GLN:CD	1:E:568:ILE:HG23	2.27	0.51
1:F:92:ILE:CD1	1:F:323:LYS:CB	2.88	0.51
1:F:324:LEU:CD1	1:F:351:PHE:CZ	2.88	0.51
1:F:553:ILE:HG13	1:F:555:GLU:N	2.26	0.51
2:H:128:GLU:CG	2:I:8:THR:HG21	2.41	0.51
2:K:88:LEU:HD23	2:K:88:LEU:O	2.11	0.51
2:K:128:GLU:CG	2:L:8:THR:HG21	2.41	0.51
1:A:278:SER:O	1:A:279:ASN:C	2.46	0.51
1:A:352:VAL:CG2	1:A:364:ALA:HB2	2.40	0.51
1:A:518:ILE:H	1:A:521:SER:HB2	1.74	0.51
1:A:541:GLU:CA	1:A:568:ILE:CD1	2.89	0.51
1:B:82:TYR:HE2	1:B:433:LYS:CD	2.23	0.51
1:C:285:GLY:O	1:C:287:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:LEU:CB	1:D:414:ALA:CB	2.66	0.51
1:D:501:VAL:HG13	1:D:578:LEU:CD1	2.38	0.51
1:E:36:PHE:CE2	1:E:419:GLY:CA	2.87	0.51
1:E:121:VAL:CG2	1:E:132:LEU:CD2	2.88	0.51
1:E:324:LEU:CD1	1:E:351:PHE:CZ	2.88	0.51
1:F:92:ILE:CD1	1:F:323:LYS:CG	2.78	0.51
1:F:281:GLU:O	1:F:284:ALA:HB3	2.11	0.51
2:H:9:ILE:HG23	2:H:9:ILE:O	2.11	0.51
2:I:6:GLN:C	2:I:8:THR:H	2.12	0.51
1:B:327:PHE:HD2	1:B:351:PHE:HE2	1.50	0.51
1:C:518:ILE:H	1:C:521:SER:HB2	1.74	0.51
1:D:524:ILE:CD1	2:K:107:TYR:OH	2.59	0.51
1:D:541:GLU:CA	1:D:568:ILE:CD1	2.89	0.51
1:E:80:PRO:HG3	1:E:415:VAL:CG2	2.34	0.51
1:E:93:GLU:CD	1:E:140:ASP:CB	2.77	0.51
1:F:92:ILE:CG1	1:F:326:LYS:CD	2.73	0.51
1:F:113:GLY:H	1:F:141:ASP:CB	2.09	0.51
1:F:367:GLY:HA2	1:F:393:ALA:CB	2.30	0.51
1:F:387:PRO:HD2	1:F:390:SER:HB2	1.67	0.51
2:J:9:ILE:HG23	2:J:9:ILE:O	2.11	0.51
1:A:245:ALA:O	1:A:264:ILE:HA	2.11	0.50
1:A:268:GLU:O	1:A:269:GLN:C	2.44	0.50
1:B:92:ILE:HD12	1:B:326:LYS:HZ1	1.66	0.50
1:B:281:GLU:O	1:B:284:ALA:HB3	2.11	0.50
1:B:361:PRO:O	1:B:362:MET:HB3	2.09	0.50
1:C:72:ILE:HD12	1:C:339:SER:O	2.12	0.50
1:C:82:TYR:HE2	1:C:433:LYS:CD	2.23	0.50
1:C:245:ALA:O	1:C:264:ILE:HA	2.11	0.50
1:D:72:ILE:HD12	1:D:339:SER:O	2.11	0.50
1:D:92:ILE:HG12	1:D:326:LYS:HB2	1.92	0.50
1:F:245:ALA:O	1:F:264:ILE:HA	2.11	0.50
1:F:539:ASP:O	1:F:540:ASN:CG	2.50	0.50
2:I:130:VAL:CB	2:J:6:GLN:HG2	2.39	0.50
2:J:17:PHE:CA	2:J:74:MET:HE1	2.40	0.50
1:A:246:VAL:HA	1:A:263:GLY:O	2.12	0.50
1:A:281:GLU:O	1:A:284:ALA:HB3	2.11	0.50
1:A:540:ASN:C	1:A:568:ILE:HD11	2.25	0.50
1:B:72:ILE:HD12	1:B:339:SER:O	2.12	0.50
1:B:260:ALA:C	1:B:261:TYR:CD1	2.84	0.50
1:B:553:ILE:HG13	1:B:555:GLU:N	2.26	0.50
1:D:39:ILE:HD12	1:D:327:PHE:H	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:76:TRP:O	1:D:415:VAL:HG21	1.80	0.50
1:E:250:ALA:HB1	1:E:252:PHE:CZ	2.46	0.50
1:E:281:GLU:O	1:E:284:ALA:HB3	2.11	0.50
1:E:352:VAL:CG2	1:E:364:ALA:HB2	2.40	0.50
2:G:29:PHE:HB2	2:G:61:ALA:CB	2.40	0.50
2:G:96:SER:HA	2:L:27:LYS:H	1.72	0.50
2:G:118:SER:CA	2:H:7:ASN:ND2	2.65	0.50
2:G:128:GLU:CG	2:H:8:THR:CG2	2.86	0.50
2:H:88:LEU:HD23	2:H:88:LEU:O	2.11	0.50
2:I:88:LEU:HD23	2:I:88:LEU:O	2.11	0.50
1:A:72:ILE:HD12	1:A:339:SER:O	2.11	0.50
1:A:174:GLU:C	1:A:175:THR:HG1	2.09	0.50
1:B:39:ILE:HD12	1:B:327:PHE:HB2	1.78	0.50
1:B:246:VAL:HA	1:B:263:GLY:O	2.12	0.50
1:C:541:GLU:CA	1:C:568:ILE:CD1	2.89	0.50
1:E:72:ILE:HD12	1:E:339:SER:O	2.11	0.50
1:F:93:GLU:CD	1:F:140:ASP:CB	2.77	0.50
1:F:352:VAL:CG2	1:F:364:ALA:HB2	2.40	0.50
1:F:435:LEU:O	1:F:436:ARG:HB2	2.09	0.50
1:F:512:PHE:HE1	1:F:517:THR:HG1	1.55	0.50
1:F:518:ILE:HG13	1:F:520:THR:N	2.27	0.50
1:F:536:LYS:CB	1:F:542:ILE:HD12	2.39	0.50
2:J:130:VAL:CB	2:K:6:GLN:HG2	2.39	0.50
1:A:553:ILE:HG13	1:A:555:GLU:N	2.26	0.50
1:B:76:TRP:CB	1:B:415:VAL:HG21	2.33	0.50
1:B:282:VAL:HG12	1:B:287:GLU:HG2	0.53	0.50
1:B:539:ASP:O	1:B:540:ASN:CG	2.50	0.50
1:C:540:ASN:O	1:C:541:GLU:HB2	2.09	0.50
1:D:107:ILE:HG13	1:D:193:TYR:HE2	1.77	0.50
1:F:82:TYR:HE2	1:F:433:LYS:CD	2.23	0.50
1:F:366:VAL:N	1:F:391:LEU:O	2.43	0.50
1:F:540:ASN:C	1:F:568:ILE:HD11	2.25	0.50
2:I:9:ILE:O	2:I:9:ILE:HG23	2.11	0.50
2:K:127:GLU:HA	2:L:8:THR:CB	2.37	0.50
1:A:82:TYR:HE2	1:A:433:LYS:CD	2.23	0.50
1:B:92:ILE:HG12	1:B:326:LYS:HB2	1.92	0.50
1:B:107:ILE:HG13	1:B:193:TYR:HE2	1.77	0.50
1:B:250:ALA:HB1	1:B:252:PHE:CZ	2.46	0.50
1:B:264:ILE:HG23	1:B:278:SER:HA	1.93	0.50
1:B:518:ILE:H	1:B:521:SER:HB2	1.74	0.50
1:C:107:ILE:HG13	1:C:193:TYR:HE2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:ILE:HG13	1:C:520:THR:N	2.27	0.50
1:D:60:LYS:HA	1:D:64:ARG:HA	1.93	0.50
1:D:134:LEU:HD21	1:D:137:ILE:HG23	1.87	0.50
1:E:541:GLU:CA	1:E:568:ILE:CD1	2.89	0.50
1:F:72:ILE:HD12	1:F:339:SER:O	2.12	0.50
2:I:128:GLU:CG	2:J:8:THR:HG21	2.41	0.50
2:J:22:GLU:CB	2:J:70:PHE:CE2	2.50	0.50
2:K:9:ILE:HG23	2:K:9:ILE:O	2.11	0.50
1:A:264:ILE:HG23	1:A:278:SER:HA	1.92	0.50
1:A:361:PRO:O	1:A:362:MET:HB3	2.09	0.50
1:A:539:ASP:O	1:A:540:ASN:CG	2.50	0.50
1:B:518:ILE:HG13	1:B:520:THR:N	2.27	0.50
1:C:154:PHE:CE2	1:C:199:ALA:HB1	2.46	0.50
1:C:283:GLU:HA	1:C:287:GLU:CB	2.34	0.50
1:E:110:LYS:NZ	1:E:113:GLY:CA	2.72	0.50
2:G:88:LEU:HD23	2:G:88:LEU:O	2.11	0.50
2:I:70:PHE:H	2:J:99:ARG:CD	2.10	0.50
2:J:128:GLU:CG	2:K:8:THR:HG21	2.41	0.50
1:A:110:LYS:NZ	1:A:113:GLY:CA	2.72	0.50
1:C:264:ILE:CD1	1:C:269:GLN:HB3	2.17	0.50
1:C:536:LYS:CB	1:C:542:ILE:HD12	2.39	0.50
1:D:264:ILE:HG23	1:D:278:SER:HA	1.93	0.50
1:E:60:LYS:HA	1:E:64:ARG:HA	1.93	0.50
1:E:246:VAL:HA	1:E:263:GLY:O	2.12	0.50
1:F:154:PHE:CE2	1:F:199:ALA:HB1	2.46	0.50
1:F:264:ILE:HG23	1:F:278:SER:HA	1.92	0.50
1:F:527:ASP:CG	2:G:136:ASP:OD2	2.49	0.50
2:H:25:HIS:CD2	2:I:98:GLY:HA2	2.47	0.50
2:I:25:HIS:CD2	2:J:98:GLY:HA2	2.47	0.50
2:K:130:VAL:CB	2:L:6:GLN:HG2	2.39	0.50
1:A:92:ILE:CD1	1:A:323:LYS:CB	2.88	0.50
1:A:250:ALA:HB1	1:A:252:PHE:CZ	2.46	0.50
1:C:532:TYR:CE2	1:C:536:LYS:CE	2.95	0.50
1:D:33:GLU:O	1:D:333:TYR:HD1	1.90	0.50
1:D:80:PRO:HG3	1:D:415:VAL:CG2	2.34	0.50
1:D:250:ALA:HB1	1:D:252:PHE:CZ	2.46	0.50
1:D:254:ASP:O	1:D:255:LEU:CB	2.56	0.50
1:D:539:ASP:O	1:D:540:ASN:CG	2.50	0.50
1:E:553:ILE:HG13	1:E:555:GLU:N	2.26	0.50
1:F:246:VAL:HA	1:F:263:GLY:O	2.12	0.50
1:F:250:ALA:HB1	1:F:252:PHE:CZ	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:399:VAL:HG21	1:F:411:TYR:CD1	2.43	0.50
1:F:528:PHE:CE1	2:G:107:TYR:CB	2.95	0.50
2:G:68:SER:CB	2:H:102:GLU:OE2	2.56	0.50
2:K:25:HIS:CD2	2:L:98:GLY:HA2	2.47	0.50
2:L:88:LEU:HD23	2:L:88:LEU:O	2.10	0.50
1:A:92:ILE:HG12	1:A:326:LYS:CB	2.42	0.50
1:A:366:VAL:N	1:A:391:LEU:O	2.43	0.50
1:B:395:SER:HB2	1:B:438:SER:HB2	1.94	0.50
1:B:541:GLU:CA	1:B:568:ILE:CD1	2.89	0.50
1:D:264:ILE:CG1	1:D:266:SER:H	2.03	0.50
1:D:320:TRP:HZ2	1:D:344:VAL:HA	1.50	0.50
1:D:363:ARG:HG2	1:D:365:ILE:HG13	1.94	0.50
1:D:518:ILE:HG13	1:D:520:THR:N	2.27	0.50
1:E:36:PHE:CZ	1:E:422:SER:CB	2.87	0.50
1:E:399:VAL:HG21	1:E:411:TYR:CD1	2.43	0.50
1:F:121:VAL:CG2	1:F:132:LEU:CD2	2.89	0.50
2:J:24:ALA:HA	2:J:71:VAL:CG2	2.40	0.50
2:J:25:HIS:CD2	2:K:98:GLY:HA2	2.47	0.50
2:K:130:VAL:HG23	2:L:6:GLN:HG2	1.72	0.50
1:A:260:ALA:C	1:A:261:TYR:CD1	2.84	0.49
1:A:395:SER:HB2	1:A:438:SER:HB2	1.94	0.49
1:B:532:TYR:CE2	1:B:536:LYS:CE	2.95	0.49
1:C:92:ILE:HG12	1:C:326:LYS:CB	2.42	0.49
1:C:92:ILE:HG12	1:C:326:LYS:HB2	1.92	0.49
1:D:264:ILE:CD1	1:D:269:GLN:HB3	2.17	0.49
1:E:327:PHE:HD2	1:E:351:PHE:HE2	1.50	0.49
1:F:132:LEU:HD11	1:F:148:ASP:HB3	1.94	0.49
2:I:17:PHE:CA	2:I:74:MET:CE	2.90	0.49
1:A:60:LYS:HA	1:A:64:ARG:HA	1.93	0.49
1:C:430:ILE:HG22	1:C:467:THR:O	2.13	0.49
1:C:553:ILE:HG13	1:C:555:GLU:N	2.26	0.49
1:D:281:GLU:O	1:D:284:ALA:HB3	2.11	0.49
1:E:363:ARG:HG2	1:E:365:ILE:HG13	1.95	0.49
1:F:92:ILE:HG12	1:F:326:LYS:CB	2.42	0.49
2:K:130:VAL:CB	2:L:6:GLN:HB3	2.43	0.49
2:L:9:ILE:O	2:L:9:ILE:HG23	2.11	0.49
2:L:24:ALA:CB	2:L:71:VAL:CB	2.86	0.49
1:A:93:GLU:CD	1:A:140:ASP:CB	2.77	0.49
1:A:121:VAL:CG2	1:A:132:LEU:CD2	2.89	0.49
1:A:132:LEU:HD11	1:A:148:ASP:HB3	1.94	0.49
1:A:334:TYR:HE2	1:A:363:ARG:NH1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:ILE:HG12	1:B:326:LYS:CB	2.42	0.49
1:C:93:GLU:OE2	1:C:111:ILE:C	2.45	0.49
1:C:281:GLU:O	1:C:284:ALA:HB3	2.11	0.49
1:C:395:SER:HB2	1:C:438:SER:HB2	1.94	0.49
1:D:285:GLY:O	1:D:286:GLU:C	2.47	0.49
1:E:539:ASP:O	1:E:540:ASN:CG	2.50	0.49
1:F:264:ILE:CG1	1:F:266:SER:H	2.03	0.49
1:F:395:SER:HB2	1:F:438:SER:HB2	1.94	0.49
1:F:541:GLU:CA	1:F:568:ILE:CD1	2.89	0.49
2:G:9:ILE:HG23	2:G:9:ILE:O	2.11	0.49
2:I:128:GLU:CG	2:J:8:THR:CG2	2.86	0.49
2:J:130:VAL:CB	2:K:6:GLN:HB3	2.43	0.49
1:A:107:ILE:HG13	1:A:193:TYR:HE2	1.77	0.49
1:A:250:ALA:CB	1:A:252:PHE:CE1	2.95	0.49
1:B:152:ASN:O	1:B:155:THR:HB	2.13	0.49
1:B:338:LEU:HD23	1:B:366:VAL:CG1	2.43	0.49
1:C:246:VAL:HA	1:C:263:GLY:O	2.12	0.49
1:C:539:ASP:O	1:C:540:ASN:CG	2.50	0.49
1:D:92:ILE:HG12	1:D:326:LYS:CB	2.42	0.49
1:D:553:ILE:HG13	1:D:555:GLU:N	2.26	0.49
1:E:39:ILE:HD12	1:E:327:PHE:H	1.74	0.49
1:E:395:SER:HB2	1:E:438:SER:HB2	1.94	0.49
2:G:138:ASP:OD1	2:G:139:VAL:N	2.46	0.49
2:H:17:PHE:CA	2:H:74:MET:CE	2.90	0.49
2:H:23:MET:HA	2:H:70:PHE:CE1	2.48	0.49
2:J:22:GLU:O	2:J:23:MET:HG2	2.10	0.49
1:B:154:PHE:CE2	1:B:199:ALA:HB1	2.46	0.49
1:C:60:LYS:HA	1:C:64:ARG:HA	1.93	0.49
1:C:338:LEU:HD23	1:C:366:VAL:CG1	2.42	0.49
1:C:543:GLN:CD	1:C:568:ILE:HG23	2.27	0.49
1:D:250:ALA:CB	1:D:252:PHE:CE1	2.95	0.49
1:D:430:ILE:HG22	1:D:467:THR:O	2.12	0.49
1:D:532:TYR:CE2	1:D:536:LYS:CE	2.95	0.49
1:E:77:GLY:CA	1:E:80:PRO:CD	2.80	0.49
1:E:430:ILE:HG22	1:E:467:THR:O	2.13	0.49
1:F:107:ILE:HG13	1:F:193:TYR:HE2	1.77	0.49
1:F:152:ASN:O	1:F:155:THR:HB	2.13	0.49
1:F:281:GLU:O	1:F:282:VAL:C	2.44	0.49
2:I:23:MET:HA	2:I:70:PHE:CE1	2.48	0.49
2:I:130:VAL:CB	2:J:6:GLN:HB3	2.43	0.49
2:J:17:PHE:CA	2:J:74:MET:CE	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:120:ASP:C	2:K:33:VAL:N	2.55	0.49
2:K:138:ASP:OD1	2:K:139:VAL:N	2.46	0.49
1:A:154:PHE:CE2	1:A:199:ALA:HB1	2.46	0.49
1:A:260:ALA:C	1:A:261:TYR:CG	2.86	0.49
1:B:60:LYS:HA	1:B:64:ARG:HA	1.93	0.49
1:B:430:ILE:HG22	1:B:467:THR:O	2.13	0.49
1:B:535:ARG:NH2	2:I:135:GLU:CG	2.47	0.49
1:C:38:LEU:HD12	1:C:76:TRP:CZ2	2.44	0.49
1:C:250:ALA:CB	1:C:252:PHE:CE1	2.96	0.49
1:D:92:ILE:CD1	1:D:323:LYS:CB	2.88	0.49
1:D:194:ASP:OD1	1:D:195:LEU:N	2.46	0.49
1:D:395:SER:HB2	1:D:438:SER:HB2	1.94	0.49
1:E:152:ASN:O	1:E:155:THR:HB	2.13	0.49
1:F:110:LYS:NZ	1:F:113:GLY:CA	2.72	0.49
1:F:363:ARG:HG2	1:F:365:ILE:HG13	1.94	0.49
2:G:8:THR:HB	2:L:127:GLU:C	2.22	0.49
2:G:23:MET:HA	2:G:70:PHE:CE1	2.48	0.49
2:G:25:HIS:CD2	2:H:98:GLY:HA2	2.47	0.49
2:G:98:GLY:HA2	2:L:25:HIS:CD2	2.47	0.49
2:L:17:PHE:HA	2:L:74:MET:CE	2.43	0.49
1:A:518:ILE:HG13	1:A:520:THR:N	2.27	0.49
1:C:152:ASN:O	1:C:155:THR:HB	2.13	0.49
1:C:254:ASP:O	1:C:255:LEU:CB	2.56	0.49
1:D:260:ALA:C	1:D:261:TYR:CG	2.86	0.49
1:F:260:ALA:C	1:F:261:TYR:CG	2.86	0.49
2:G:17:PHE:CA	2:G:74:MET:CE	2.90	0.49
2:H:27:LYS:H	2:I:96:SER:HA	1.72	0.49
2:H:138:ASP:OD1	2:H:139:VAL:N	2.46	0.49
2:J:14:GLY:HA3	2:J:90:ALA:HB2	1.95	0.49
2:K:17:PHE:CA	2:K:74:MET:CE	2.90	0.49
2:L:17:PHE:CA	2:L:74:MET:CE	2.90	0.49
1:A:387:PRO:HD2	1:A:390:SER:HB3	1.91	0.49
1:C:76:TRP:CG	1:C:415:VAL:HG21	2.43	0.49
1:D:39:ILE:HG21	1:D:327:PHE:HA	1.95	0.49
1:D:246:VAL:HA	1:D:263:GLY:O	2.12	0.49
1:E:107:ILE:HG13	1:E:193:TYR:HE2	1.77	0.49
1:E:281:GLU:O	1:E:282:VAL:C	2.44	0.49
1:E:532:TYR:CE2	1:E:536:LYS:CE	2.95	0.49
1:E:540:ASN:C	1:E:568:ILE:HD11	2.25	0.49
1:F:250:ALA:CB	1:F:252:PHE:CE1	2.95	0.49
1:F:334:TYR:HE2	1:F:363:ARG:NH1	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:428:GLU:N	1:F:469:THR:HG21	2.25	0.49
1:F:430:ILE:HG22	1:F:467:THR:O	2.13	0.49
1:F:528:PHE:HE1	2:G:107:TYR:CB	2.26	0.49
2:G:6:GLN:HB3	2:L:130:VAL:CB	2.43	0.49
2:I:14:GLY:HA3	2:I:90:ALA:HB2	1.95	0.49
1:A:39:ILE:HG21	1:A:327:PHE:HA	1.95	0.49
1:A:285:GLY:O	1:A:286:GLU:C	2.48	0.49
1:A:512:PHE:HE1	1:A:517:THR:HG1	1.55	0.49
1:C:194:ASP:OD1	1:C:195:LEU:N	2.46	0.49
1:C:281:GLU:HA	1:C:284:ALA:HB3	1.95	0.49
1:D:152:ASN:O	1:D:155:THR:HB	2.13	0.49
1:E:92:ILE:HG12	1:E:326:LYS:CB	2.42	0.49
1:E:92:ILE:HG12	1:E:326:LYS:HZ2	1.60	0.49
1:F:60:LYS:HA	1:F:64:ARG:HA	1.93	0.49
1:F:80:PRO:HG3	1:F:415:VAL:CG2	2.34	0.49
2:J:17:PHE:HA	2:J:74:MET:CE	2.43	0.49
2:J:138:ASP:OD1	2:J:139:VAL:N	2.46	0.49
2:K:14:GLY:HA3	2:K:90:ALA:HB2	1.95	0.49
2:L:14:GLY:HA3	2:L:90:ALA:HB2	1.95	0.49
2:L:138:ASP:OD1	2:L:139:VAL:N	2.46	0.49
1:A:194:ASP:OD1	1:A:195:LEU:N	2.46	0.49
1:A:532:TYR:CE2	1:A:536:LYS:CE	2.95	0.49
1:B:194:ASP:OD1	1:B:195:LEU:N	2.46	0.49
1:B:338:LEU:HB3	1:B:412:MET:HE3	1.93	0.49
1:C:169:VAL:HB	1:C:286:GLU:CD	2.20	0.49
1:C:363:ARG:HG2	1:C:365:ILE:HG13	1.95	0.49
1:D:132:LEU:HD11	1:D:148:ASP:HB3	1.94	0.49
1:D:281:GLU:O	1:D:282:VAL:C	2.44	0.49
1:E:260:ALA:C	1:E:261:TYR:CG	2.86	0.49
1:F:338:LEU:HD23	1:F:366:VAL:HG12	1.95	0.49
1:F:532:TYR:CE2	1:F:536:LYS:CE	2.95	0.49
2:H:130:VAL:CB	2:I:6:GLN:HB3	2.43	0.49
2:K:22:GLU:O	2:K:23:MET:HG2	2.10	0.49
1:B:250:ALA:CB	1:B:252:PHE:CE1	2.96	0.48
1:B:258:GLN:O	1:B:259:THR:HG22	2.13	0.48
1:C:36:PHE:CZ	1:C:419:GLY:CA	2.87	0.48
1:C:132:LEU:HD11	1:C:148:ASP:HB3	1.94	0.48
1:C:524:ILE:HD11	2:J:107:TYR:OH	2.13	0.48
1:D:51:TYR:CE2	1:D:52:GLU:O	2.66	0.48
1:D:281:GLU:HA	1:D:284:ALA:HB3	1.95	0.48
1:E:194:ASP:OD1	1:E:195:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:338:LEU:HD23	1:F:366:VAL:CG1	2.43	0.48
2:G:27:LYS:H	2:H:96:SER:HA	1.72	0.48
1:A:134:LEU:HD21	1:A:137:ILE:HG23	1.87	0.48
1:C:93:GLU:HG2	1:C:112:TYR:CZ	2.48	0.48
1:C:258:GLN:O	1:C:259:THR:HG22	2.13	0.48
1:C:334:TYR:HE2	1:C:363:ARG:NH1	2.10	0.48
1:D:338:LEU:HD23	1:D:366:VAL:CG1	2.43	0.48
1:E:51:TYR:CE2	1:E:52:GLU:O	2.66	0.48
1:E:76:TRP:CG	1:E:415:VAL:HG21	2.43	0.48
1:E:132:LEU:HD11	1:E:148:ASP:HB3	1.94	0.48
1:E:518:ILE:HG13	1:E:520:THR:N	2.27	0.48
1:F:51:TYR:CE2	1:F:52:GLU:O	2.67	0.48
1:F:285:GLY:O	1:F:286:GLU:C	2.47	0.48
1:F:493:VAL:HG23	1:F:494:GLY:N	2.28	0.48
2:G:99:ARG:NH2	2:G:102:GLU:OE2	2.47	0.48
2:I:28:THR:HG23	2:I:62:THR:OG1	2.13	0.48
2:J:99:ARG:NH2	2:J:102:GLU:OE2	2.47	0.48
2:L:28:THR:HG23	2:L:62:THR:OG1	2.13	0.48
1:A:39:ILE:CD1	1:A:327:PHE:HA	2.03	0.48
1:A:152:ASN:O	1:A:155:THR:HB	2.13	0.48
1:B:39:ILE:HG21	1:B:327:PHE:HA	1.95	0.48
1:B:132:LEU:HD11	1:B:148:ASP:HB3	1.94	0.48
1:B:334:TYR:HE2	1:B:363:ARG:NH1	2.11	0.48
1:B:491:MET:C	1:B:493:VAL:CG2	2.82	0.48
1:C:39:ILE:HD12	1:C:327:PHE:HB2	1.78	0.48
1:D:173:GLU:OE1	1:D:173:GLU:N	2.43	0.48
1:D:334:TYR:HE2	1:D:363:ARG:NH1	2.11	0.48
1:F:93:GLU:HG2	1:F:112:TYR:CZ	2.48	0.48
1:F:194:ASP:OD1	1:F:195:LEU:N	2.46	0.48
2:G:17:PHE:HA	2:G:74:MET:CE	2.43	0.48
2:G:63:PHE:C	2:H:96:SER:HB3	2.33	0.48
2:H:17:PHE:HA	2:H:74:MET:CE	2.43	0.48
2:H:128:GLU:HG2	2:I:8:THR:HG21	1.95	0.48
1:A:51:TYR:CE2	1:A:52:GLU:O	2.66	0.48
1:A:338:LEU:HD23	1:A:366:VAL:CG1	2.43	0.48
1:A:338:LEU:HD23	1:A:366:VAL:HG12	1.95	0.48
1:A:430:ILE:HG22	1:A:467:THR:O	2.12	0.48
1:B:93:GLU:HG2	1:B:112:TYR:CZ	2.48	0.48
1:C:327:PHE:CE2	1:C:351:PHE:CB	2.85	0.48
1:C:338:LEU:C	1:C:412:MET:CE	2.80	0.48
1:C:362:MET:HE2	1:C:364:ALA:HB2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:36:PHE:CZ	1:D:422:SER:CB	2.87	0.48
2:G:14:GLY:HA3	2:G:90:ALA:HB2	1.95	0.48
2:H:14:GLY:HA3	2:H:90:ALA:HB2	1.95	0.48
2:H:99:ARG:NH2	2:H:102:GLU:OE2	2.47	0.48
2:K:28:THR:HG23	2:K:62:THR:OG1	2.13	0.48
2:L:99:ARG:NH2	2:L:102:GLU:OE2	2.47	0.48
1:A:355:ARG:HB2	1:A:361:PRO:HD2	1.95	0.48
1:C:51:TYR:CE2	1:C:52:GLU:O	2.67	0.48
1:C:258:GLN:O	1:C:259:THR:HG23	2.07	0.48
1:D:76:TRP:CG	1:D:415:VAL:HG21	2.43	0.48
1:D:93:GLU:HG2	1:D:112:TYR:CZ	2.48	0.48
1:D:491:MET:C	1:D:493:VAL:CG2	2.82	0.48
1:E:428:GLU:N	1:E:469:THR:HG21	2.25	0.48
1:E:536:LYS:CB	1:E:542:ILE:HD12	2.39	0.48
1:E:540:ASN:O	1:E:541:GLU:HB2	2.09	0.48
2:G:6:GLN:HG2	2:L:130:VAL:CB	2.39	0.48
2:I:138:ASP:OD1	2:I:139:VAL:N	2.46	0.48
2:J:116:ILE:O	2:J:119:LEU:HD13	2.14	0.48
1:A:135:ARG:O	1:A:136:VAL:CG2	2.62	0.48
1:C:264:ILE:CD1	1:C:266:SER:HB3	2.44	0.48
1:C:320:TRP:CH2	1:C:343:SER:O	2.61	0.48
1:C:401:ASP:HB2	1:C:409:PRO:HG2	1.96	0.48
1:E:254:ASP:O	1:E:255:LEU:CB	2.56	0.48
1:E:334:TYR:HE2	1:E:363:ARG:NH1	2.11	0.48
1:E:338:LEU:HD23	1:E:366:VAL:CG1	2.43	0.48
1:F:38:LEU:HD12	1:F:76:TRP:CZ2	2.44	0.48
2:G:116:ILE:O	2:G:119:LEU:HD13	2.14	0.48
2:G:130:VAL:CB	2:H:6:GLN:HB3	2.42	0.48
2:H:116:ILE:O	2:H:119:LEU:HD13	2.14	0.48
2:I:17:PHE:HA	2:I:74:MET:CE	2.43	0.48
2:J:28:THR:HG23	2:J:62:THR:OG1	2.13	0.48
1:A:366:VAL:O	1:A:393:ALA:N	2.47	0.48
1:B:260:ALA:C	1:B:261:TYR:CG	2.86	0.48
1:B:363:ARG:HG2	1:B:365:ILE:HG13	1.94	0.48
1:B:370:PHE:HZ	1:B:448:ASP:OD2	1.90	0.48
1:C:39:ILE:HG21	1:C:327:PHE:HA	1.95	0.48
1:C:92:ILE:CD1	1:C:323:LYS:CG	2.78	0.48
1:C:366:VAL:O	1:C:393:ALA:N	2.47	0.48
1:D:67:GLU:H	1:D:70:ASP:HB2	1.78	0.48
1:D:264:ILE:CD1	1:D:266:SER:HB3	2.44	0.48
1:D:401:ASP:HB2	1:D:409:PRO:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:175:THR:O	1:E:176:GLN:CB	2.60	0.48
1:E:493:VAL:HG23	1:E:494:GLY:N	2.28	0.48
2:I:128:GLU:HG2	2:J:8:THR:HG21	1.95	0.48
2:K:23:MET:HA	2:K:70:PHE:CE1	2.48	0.48
1:A:33:GLU:O	1:A:333:TYR:HD1	1.90	0.48
1:A:247:TYR:CD2	1:A:247:TYR:N	2.82	0.48
1:A:363:ARG:HG2	1:A:365:ILE:HG13	1.94	0.48
1:B:504:LEU:HD11	1:B:563:MET:SD	2.54	0.48
1:C:33:GLU:O	1:C:333:TYR:HD1	1.89	0.48
1:F:39:ILE:HG21	1:F:327:PHE:HA	1.95	0.48
1:F:135:ARG:O	1:F:136:VAL:CG2	2.62	0.48
2:I:22:GLU:O	2:I:23:MET:HG2	2.10	0.48
2:I:99:ARG:NH2	2:I:102:GLU:OE2	2.47	0.48
2:I:116:ILE:O	2:I:119:LEU:HD13	2.14	0.48
2:J:27:LYS:NZ	2:K:95:GLN:O	2.47	0.48
2:K:27:LYS:NZ	2:L:95:GLN:O	2.47	0.48
2:L:23:MET:HA	2:L:70:PHE:CE1	2.48	0.48
1:A:504:LEU:HD11	1:A:563:MET:SD	2.54	0.48
1:A:535:ARG:NH2	2:H:135:GLU:CD	2.61	0.48
1:B:264:ILE:CD1	1:B:266:SER:HB3	2.44	0.48
1:C:67:GLU:H	1:C:70:ASP:HB2	1.79	0.48
1:C:268:GLU:O	1:C:269:GLN:C	2.44	0.48
1:C:428:GLU:O	1:C:429:SER:HB3	2.13	0.48
1:D:320:TRP:CH2	1:D:343:SER:O	2.61	0.48
1:D:338:LEU:CG	1:D:366:VAL:C	2.52	0.48
1:D:504:LEU:HD11	1:D:563:MET:SD	2.54	0.48
1:E:39:ILE:HG21	1:E:327:PHE:HA	1.95	0.48
1:F:47:PRO:HB3	1:F:111:ILE:HB	1.72	0.48
1:F:540:ASN:O	1:F:541:GLU:HB2	2.09	0.48
1:F:543:GLN:CD	1:F:568:ILE:HG23	2.27	0.48
2:I:17:PHE:HA	2:I:74:MET:HE1	1.95	0.48
2:K:17:PHE:HA	2:K:74:MET:CE	2.43	0.48
2:K:99:ARG:NH2	2:K:102:GLU:OE2	2.47	0.48
1:A:93:GLU:HG2	1:A:112:TYR:CZ	2.48	0.48
1:A:258:GLN:O	1:A:259:THR:HG22	2.13	0.48
1:B:135:ARG:O	1:B:136:VAL:CG2	2.62	0.48
1:B:283:GLU:HA	1:B:287:GLU:CB	2.34	0.48
1:B:283:GLU:C	1:B:285:GLY:N	2.66	0.48
1:B:401:ASP:HB2	1:B:409:PRO:HG2	1.96	0.48
1:E:250:ALA:CB	1:E:252:PHE:CE1	2.96	0.48
1:F:540:ASN:C	1:F:541:GLU:HG3	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:116:ILE:O	2:K:119:LEU:HD13	2.14	0.48
1:A:67:GLU:H	1:A:70:ASP:HB2	1.79	0.47
1:B:33:GLU:O	1:B:333:TYR:HD1	1.90	0.47
1:B:337:PRO:O	1:B:345:HIS:NE2	2.47	0.47
1:B:428:GLU:O	1:B:429:SER:HB3	2.14	0.47
1:C:80:PRO:HG3	1:C:415:VAL:CG2	2.34	0.47
1:C:504:LEU:HD11	1:C:563:MET:SD	2.54	0.47
1:C:524:ILE:CD1	2:J:107:TYR:OH	2.62	0.47
1:D:77:GLY:CA	1:D:80:PRO:CD	2.80	0.47
1:E:93:GLU:HG2	1:E:112:TYR:CZ	2.48	0.47
1:E:135:ARG:O	1:E:136:VAL:CG2	2.62	0.47
1:F:504:LEU:HD11	1:F:563:MET:SD	2.54	0.47
2:G:18:LEU:HD23	2:G:18:LEU:C	2.34	0.47
2:G:95:GLN:O	2:L:27:LYS:NZ	2.47	0.47
2:H:28:THR:HG23	2:H:62:THR:OG1	2.13	0.47
2:I:27:LYS:NZ	2:J:95:GLN:O	2.47	0.47
1:A:281:GLU:O	1:A:282:VAL:C	2.44	0.47
1:A:337:PRO:O	1:A:345:HIS:NE2	2.47	0.47
1:A:401:ASP:HB2	1:A:409:PRO:HG2	1.96	0.47
1:A:504:LEU:HD22	1:A:529:ILE:CG2	2.45	0.47
1:D:247:TYR:CD2	1:D:247:TYR:N	2.81	0.47
1:D:287:GLU:HA	1:D:287:GLU:OE1	2.14	0.47
1:D:366:VAL:O	1:D:393:ALA:HB2	2.14	0.47
1:D:366:VAL:O	1:D:393:ALA:N	2.47	0.47
1:E:264:ILE:CD1	1:E:266:SER:HB3	2.44	0.47
1:E:338:LEU:HD13	1:E:367:GLY:HA3	1.61	0.47
1:E:504:LEU:HD11	1:E:563:MET:SD	2.54	0.47
1:F:92:ILE:N	1:F:326:LYS:HD3	2.29	0.47
1:F:106:LYS:HZ1	1:F:146:VAL:HG11	1.79	0.47
1:F:281:GLU:HA	1:F:284:ALA:HB3	1.95	0.47
1:F:320:TRP:CH2	1:F:343:SER:O	2.61	0.47
2:H:18:LEU:C	2:H:18:LEU:HD23	2.34	0.47
2:I:128:GLU:CA	2:J:8:THR:HG21	2.26	0.47
2:I:132:PHE:C	2:I:132:PHE:CD1	2.88	0.47
2:J:132:PHE:CD1	2:J:132:PHE:C	2.88	0.47
1:B:366:VAL:O	1:B:393:ALA:N	2.47	0.47
1:B:504:LEU:HD22	1:B:529:ILE:CG2	2.45	0.47
1:C:264:ILE:HG22	1:C:277:PRO:C	2.35	0.47
1:C:337:PRO:O	1:C:345:HIS:NE2	2.47	0.47
1:C:504:LEU:HD22	1:C:529:ILE:CG2	2.45	0.47
1:D:39:ILE:HD11	1:D:327:PHE:CG	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:92:ILE:N	1:E:326:LYS:HD3	2.29	0.47
1:E:271:ASN:C	1:E:273:GLU:N	2.68	0.47
1:E:285:GLY:O	1:E:286:GLU:C	2.48	0.47
1:E:338:LEU:HD23	1:E:366:VAL:HG12	1.95	0.47
1:F:287:GLU:HA	1:F:287:GLU:OE1	2.14	0.47
1:F:362:MET:HE2	1:F:364:ALA:HB2	1.94	0.47
2:J:18:LEU:HD23	2:J:18:LEU:C	2.34	0.47
1:A:34:LYS:NZ	1:A:83:THR:O	2.32	0.47
1:A:47:PRO:HB3	1:A:111:ILE:HB	1.72	0.47
1:A:431:THR:OG1	1:A:434:PRO:CD	2.63	0.47
1:A:557:ASN:CG	1:A:558:GLU:H	2.18	0.47
1:B:51:TYR:CE2	1:B:52:GLU:O	2.66	0.47
1:B:500:LEU:HD12	1:B:533:LEU:CD2	2.45	0.47
1:C:113:GLY:H	1:C:141:ASP:CB	2.09	0.47
1:C:135:ARG:O	1:C:136:VAL:CG2	2.62	0.47
1:D:264:ILE:HG22	1:D:277:PRO:C	2.35	0.47
1:D:428:GLU:O	1:D:429:SER:HB3	2.13	0.47
1:F:366:VAL:O	1:F:393:ALA:N	2.47	0.47
2:H:127:GLU:CA	2:I:8:THR:CG2	2.89	0.47
1:A:137:ILE:HG22	1:A:143:PHE:CD1	2.50	0.47
1:A:287:GLU:HA	1:A:287:GLU:OE1	2.14	0.47
1:B:355:ARG:HB2	1:B:361:PRO:HD2	1.95	0.47
1:C:449:LEU:CA	1:C:452:LEU:HG	2.44	0.47
1:D:337:PRO:O	1:D:345:HIS:NE2	2.47	0.47
1:F:504:LEU:HD22	1:F:529:ILE:CG2	2.45	0.47
2:G:27:LYS:NZ	2:H:95:GLN:O	2.47	0.47
2:H:27:LYS:NZ	2:I:95:GLN:O	2.47	0.47
2:H:63:PHE:C	2:I:96:SER:HB3	2.33	0.47
2:J:23:MET:HA	2:J:70:PHE:CE1	2.48	0.47
2:L:116:ILE:O	2:L:119:LEU:HD13	2.14	0.47
1:A:80:PRO:C	1:A:82:TYR:N	2.68	0.47
1:A:92:ILE:N	1:A:326:LYS:HD3	2.29	0.47
1:A:281:GLU:HA	1:A:284:ALA:HB3	1.95	0.47
1:A:327:PHE:HD2	1:A:351:PHE:HE2	1.50	0.47
1:B:67:GLU:H	1:B:70:ASP:HB2	1.79	0.47
1:B:80:PRO:HG3	1:B:415:VAL:CG2	2.34	0.47
1:B:172:ASP:OD1	1:B:173:GLU:HG3	2.15	0.47
1:B:264:ILE:HG22	1:B:277:PRO:C	2.35	0.47
1:B:287:GLU:HA	1:B:287:GLU:OE1	2.14	0.47
1:B:431:THR:OG1	1:B:434:PRO:CD	2.63	0.47
1:C:106:LYS:HZ1	1:C:146:VAL:HG11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:ILE:CG1	1:C:266:SER:H	2.03	0.47
1:D:175:THR:O	1:D:176:GLN:CB	2.59	0.47
1:D:258:GLN:O	1:D:259:THR:HG22	2.13	0.47
1:D:493:VAL:HG23	1:D:494:GLY:N	2.28	0.47
1:E:258:GLN:O	1:E:259:THR:HG22	2.13	0.47
2:I:18:LEU:HD23	2:I:18:LEU:C	2.34	0.47
2:I:112:ASP:HB3	2:I:115:LYS:CD	2.41	0.47
2:J:26:ILE:HD11	2:J:61:ALA:CB	2.45	0.47
2:K:26:ILE:HD11	2:K:61:ALA:CB	2.45	0.47
1:A:130:ASP:C	1:A:130:ASP:OD1	2.52	0.47
1:A:173:GLU:CD	1:A:201:ASP:OD2	2.53	0.47
1:A:264:ILE:CD1	1:A:266:SER:HB3	2.44	0.47
1:A:283:GLU:HA	1:A:287:GLU:CB	2.34	0.47
1:A:493:VAL:HG23	1:A:494:GLY:N	2.28	0.47
1:A:500:LEU:HD12	1:A:533:LEU:CD2	2.44	0.47
1:B:92:ILE:N	1:B:326:LYS:HD3	2.29	0.47
1:B:134:LEU:CD2	1:B:137:ILE:HG23	2.45	0.47
1:B:137:ILE:HG22	1:B:143:PHE:CD1	2.50	0.47
1:B:281:GLU:HA	1:B:284:ALA:HB3	1.95	0.47
1:B:285:GLY:O	1:B:286:GLU:C	2.48	0.47
1:B:493:VAL:HG23	1:B:494:GLY:N	2.28	0.47
1:B:531:SER:O	1:B:535:ARG:HG3	2.15	0.47
1:B:557:ASN:CG	1:B:558:GLU:H	2.18	0.47
1:C:92:ILE:HD12	1:C:326:LYS:HZ1	1.68	0.47
1:C:92:ILE:N	1:C:326:LYS:HD3	2.29	0.47
1:C:491:MET:C	1:C:493:VAL:CG2	2.82	0.47
1:D:44:GLY:C	1:D:189:GLU:OE1	2.52	0.47
1:D:92:ILE:N	1:D:326:LYS:HD3	2.29	0.47
1:D:135:ARG:O	1:D:136:VAL:CG2	2.62	0.47
1:D:531:SER:O	1:D:535:ARG:HG3	2.15	0.47
1:E:173:GLU:OE1	1:E:173:GLU:N	2.43	0.47
1:E:264:ILE:HG22	1:E:277:PRO:C	2.35	0.47
1:E:281:GLU:HA	1:E:284:ALA:HB3	1.95	0.47
1:E:362:MET:HE2	1:E:364:ALA:HB2	1.94	0.47
1:E:366:VAL:O	1:E:393:ALA:N	2.47	0.47
1:E:370:PHE:HA	1:E:373:SER:CB	2.45	0.47
1:E:401:ASP:HB2	1:E:409:PRO:HG2	1.96	0.47
1:E:500:LEU:HD12	1:E:533:LEU:CD2	2.44	0.47
1:F:67:GLU:H	1:F:70:ASP:HB2	1.79	0.47
1:F:258:GLN:O	1:F:259:THR:HG22	2.13	0.47
1:F:401:ASP:HB2	1:F:409:PRO:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:557:ASN:CG	1:F:558:GLU:H	2.18	0.47
2:G:22:GLU:C	2:G:23:MET:HG2	2.35	0.47
2:G:28:THR:HG23	2:G:62:THR:OG1	2.13	0.47
2:J:88:LEU:HD23	2:J:89:GLN:N	2.30	0.47
2:L:22:GLU:O	2:L:23:MET:HG2	2.10	0.47
1:A:264:ILE:CG1	1:A:266:SER:H	2.03	0.47
1:A:428:GLU:N	1:A:469:THR:HG21	2.24	0.47
1:B:80:PRO:C	1:B:82:TYR:N	2.68	0.47
1:B:92:ILE:CD1	1:B:323:LYS:CA	2.67	0.47
1:B:542:ILE:HG22	1:B:543:GLN:N	2.30	0.47
1:C:39:ILE:CB	1:C:326:LYS:HZ3	2.25	0.47
1:C:338:LEU:HD23	1:C:366:VAL:HG12	1.95	0.47
1:C:493:VAL:HG23	1:C:494:GLY:N	2.28	0.47
1:C:500:LEU:HD12	1:C:533:LEU:CD2	2.44	0.47
1:C:542:ILE:HG22	1:C:543:GLN:N	2.30	0.47
1:D:382:ALA:O	1:D:384:LEU:HD22	2.15	0.47
1:E:428:GLU:O	1:E:429:SER:HB3	2.14	0.47
1:E:557:ASN:CG	1:E:558:GLU:H	2.18	0.47
1:F:531:SER:O	1:F:535:ARG:HG3	2.15	0.47
2:G:24:ALA:HA	2:H:98:GLY:HA3	1.42	0.47
2:J:22:GLU:C	2:J:23:MET:HG2	2.35	0.47
2:L:22:GLU:C	2:L:23:MET:HG2	2.35	0.47
2:L:132:PHE:C	2:L:132:PHE:CD1	2.88	0.47
1:B:370:PHE:HA	1:B:373:SER:CB	2.45	0.47
1:C:80:PRO:C	1:C:82:TYR:H	2.18	0.47
1:D:338:LEU:HD23	1:D:366:VAL:HG12	1.95	0.47
1:D:370:PHE:HA	1:D:373:SER:CB	2.45	0.47
1:E:137:ILE:HG22	1:E:143:PHE:CD1	2.50	0.47
1:E:491:MET:C	1:E:493:VAL:CG2	2.82	0.47
1:E:531:SER:O	1:E:535:ARG:HG3	2.15	0.47
1:F:132:LEU:HD21	1:F:148:ASP:HB3	1.38	0.47
1:F:173:GLU:CD	1:F:201:ASP:OD2	2.53	0.47
1:F:247:TYR:CD2	1:F:247:TYR:N	2.82	0.47
1:F:431:THR:OG1	1:F:434:PRO:CD	2.63	0.47
2:H:88:LEU:HD23	2:H:89:GLN:N	2.30	0.47
2:K:89:GLN:HG2	2:K:103:ARG:CD	2.45	0.47
2:L:18:LEU:HD23	2:L:18:LEU:C	2.34	0.47
2:L:26:ILE:HD11	2:L:61:ALA:CB	2.45	0.47
1:A:52:GLU:CG	1:A:88:LEU:HD22	2.25	0.47
1:A:537:LYS:HD3	1:A:537:LYS:C	2.36	0.47
1:B:522:ALA:O	1:B:526:LYS:HB2	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:557:ASN:CG	1:C:558:GLU:H	2.18	0.47
1:D:557:ASN:CG	1:D:558:GLU:H	2.18	0.47
1:E:537:LYS:HD3	1:E:537:LYS:C	2.36	0.47
2:G:26:ILE:HD11	2:G:61:ALA:CB	2.45	0.47
2:H:22:GLU:C	2:H:23:MET:HG2	2.35	0.47
2:H:132:PHE:CD1	2:H:132:PHE:C	2.88	0.47
2:I:23:MET:SD	2:I:77:TYR:CD2	3.09	0.47
2:I:88:LEU:HD23	2:I:89:GLN:N	2.30	0.47
2:K:132:PHE:CD1	2:K:132:PHE:C	2.88	0.47
1:A:449:LEU:CA	1:A:452:LEU:HG	2.44	0.46
1:A:528:PHE:CE1	2:H:107:TYR:HB3	2.50	0.46
1:B:173:GLU:CD	1:B:201:ASP:OD2	2.53	0.46
1:B:387:PRO:HD2	1:B:390:SER:HB3	1.91	0.46
1:C:76:TRP:CD2	1:C:415:VAL:HG23	2.51	0.46
1:C:382:ALA:O	1:C:384:LEU:HD22	2.15	0.46
1:C:522:ALA:O	1:C:526:LYS:HB2	2.16	0.46
1:D:80:PRO:C	1:D:82:TYR:H	2.18	0.46
1:E:67:GLU:H	1:E:70:ASP:HB2	1.79	0.46
1:E:106:LYS:HZ1	1:E:146:VAL:HG11	1.79	0.46
1:E:337:PRO:O	1:E:345:HIS:NE2	2.48	0.46
1:F:80:PRO:C	1:F:82:TYR:H	2.18	0.46
1:F:338:LEU:HB2	1:F:414:ALA:CB	2.16	0.46
1:A:134:LEU:CD2	1:A:137:ILE:HG23	2.45	0.46
1:A:172:ASP:OD1	1:A:173:GLU:HG3	2.15	0.46
1:A:522:ALA:O	1:A:526:LYS:HB2	2.16	0.46
1:B:92:ILE:CG1	1:B:326:LYS:HZ1	2.04	0.46
1:B:106:LYS:HZ1	1:B:146:VAL:HG11	1.79	0.46
1:B:132:LEU:HD21	1:B:148:ASP:HB3	1.38	0.46
1:B:320:TRP:CH2	1:B:343:SER:O	2.61	0.46
1:B:338:LEU:HD21	1:B:393:ALA:HB3	1.97	0.46
1:C:36:PHE:HE2	1:C:419:GLY:HA2	1.74	0.46
1:C:134:LEU:CD2	1:C:137:ILE:HG23	2.45	0.46
1:C:137:ILE:HG22	1:C:143:PHE:CD1	2.50	0.46
1:C:175:THR:O	1:C:176:GLN:CB	2.60	0.46
1:C:531:SER:O	1:C:535:ARG:HG3	2.15	0.46
1:D:76:TRP:CD2	1:D:415:VAL:HG23	2.51	0.46
1:D:80:PRO:C	1:D:82:TYR:N	2.68	0.46
1:D:113:GLY:H	1:D:141:ASP:CB	2.09	0.46
1:D:462:PHE:HD2	1:D:467:THR:N	2.13	0.46
1:D:537:LYS:HD3	1:D:537:LYS:C	2.36	0.46
1:E:431:THR:OG1	1:E:434:PRO:CD	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:452:LEU:HB2	1:E:457:ILE:HG23	1.95	0.46
1:F:130:ASP:C	1:F:130:ASP:OD1	2.52	0.46
1:F:337:PRO:O	1:F:345:HIS:NE2	2.48	0.46
1:F:370:PHE:HA	1:F:373:SER:CB	2.45	0.46
2:H:26:ILE:HD11	2:H:61:ALA:CB	2.45	0.46
2:H:31:ALA:HB1	2:H:134:PHE:CE1	2.51	0.46
2:J:23:MET:SD	2:J:77:TYR:CD2	3.08	0.46
1:A:38:LEU:HD12	1:A:76:TRP:CZ2	2.44	0.46
1:A:254:ASP:C	1:A:256:GLU:N	2.68	0.46
1:A:367:GLY:HA2	1:A:393:ALA:CB	2.30	0.46
1:B:34:LYS:NZ	1:B:83:THR:O	2.32	0.46
1:B:264:ILE:CD1	1:B:269:GLN:HB3	2.17	0.46
1:B:537:LYS:HD3	1:B:537:LYS:C	2.36	0.46
1:C:80:PRO:C	1:C:82:TYR:N	2.68	0.46
1:C:283:GLU:C	1:C:285:GLY:N	2.66	0.46
1:D:79:ASN:CB	1:D:433:LYS:HD3	2.45	0.46
1:D:137:ILE:HG22	1:D:143:PHE:CD1	2.50	0.46
1:D:449:LEU:CA	1:D:452:LEU:HG	2.44	0.46
1:D:504:LEU:HD22	1:D:529:ILE:CG2	2.44	0.46
1:E:79:ASN:CB	1:E:433:LYS:HD3	2.45	0.46
1:E:337:PRO:HG2	1:E:366:VAL:CA	2.43	0.46
1:E:542:ILE:HG22	1:E:543:GLN:N	2.30	0.46
1:F:36:PHE:CZ	1:F:419:GLY:CA	2.87	0.46
2:G:88:LEU:HD23	2:G:89:GLN:N	2.30	0.46
2:I:22:GLU:C	2:I:23:MET:HG2	2.35	0.46
2:J:31:ALA:HB1	2:J:134:PHE:CE1	2.51	0.46
2:L:89:GLN:HG2	2:L:103:ARG:CD	2.45	0.46
1:A:264:ILE:HG22	1:A:277:PRO:C	2.35	0.46
1:A:531:SER:O	1:A:535:ARG:HG3	2.15	0.46
1:B:39:ILE:CB	1:B:326:LYS:HZ3	2.25	0.46
1:B:320:TRP:CE2	1:B:343:SER:C	2.74	0.46
1:B:326:LYS:HZ2	1:B:326:LYS:HB3	1.81	0.46
1:B:535:ARG:NH2	2:I:135:GLU:CD	2.57	0.46
1:C:39:ILE:HD11	1:C:327:PHE:CG	2.46	0.46
1:D:173:GLU:CD	1:D:201:ASP:OD2	2.53	0.46
1:D:320:TRP:HE1	1:D:344:VAL:CG2	1.71	0.46
1:D:500:LEU:HD12	1:D:533:LEU:CD2	2.44	0.46
1:E:36:PHE:CZ	1:E:419:GLY:CA	2.87	0.46
1:E:39:ILE:HD11	1:E:327:PHE:CG	2.46	0.46
1:E:366:VAL:O	1:E:393:ALA:HB2	2.14	0.46
1:E:504:LEU:HD22	1:E:529:ILE:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:76:TRP:CG	1:F:415:VAL:HG21	2.43	0.46
1:F:137:ILE:HG22	1:F:143:PHE:CD1	2.50	0.46
1:F:501:VAL:CG1	1:F:578:LEU:CD2	2.74	0.46
2:J:23:MET:HA	2:J:70:PHE:CD2	2.51	0.46
2:J:89:GLN:HG2	2:J:103:ARG:CD	2.45	0.46
2:L:58:THR:CG2	2:L:59:GLY:N	2.77	0.46
1:B:113:GLY:H	1:B:141:ASP:CB	2.09	0.46
1:B:449:LEU:CA	1:B:452:LEU:HG	2.44	0.46
1:C:173:GLU:CD	1:C:201:ASP:OD2	2.53	0.46
1:C:247:TYR:CD2	1:C:247:TYR:N	2.81	0.46
1:C:247:TYR:O	1:C:262:ASN:HA	2.16	0.46
1:C:260:ALA:C	1:C:261:TYR:CG	2.86	0.46
1:C:279:ASN:O	1:C:280:VAL:C	2.52	0.46
1:C:283:GLU:CA	1:C:287:GLU:HB3	2.38	0.46
1:C:431:THR:OG1	1:C:434:PRO:CD	2.63	0.46
1:D:437:VAL:CB	1:D:462:PHE:CE1	2.96	0.46
1:E:80:PRO:C	1:E:82:TYR:H	2.18	0.46
1:F:79:ASN:CB	1:F:433:LYS:HD3	2.45	0.46
1:F:173:GLU:OE1	1:F:173:GLU:N	2.43	0.46
1:F:452:LEU:HB2	1:F:457:ILE:HG23	1.95	0.46
1:F:462:PHE:HD2	1:F:467:THR:N	2.13	0.46
1:F:500:LEU:HD12	1:F:533:LEU:CD2	2.45	0.46
2:G:132:PHE:CD1	2:G:132:PHE:C	2.88	0.46
2:H:22:GLU:O	2:H:23:MET:HG2	2.10	0.46
2:H:23:MET:SD	2:H:77:TYR:CD2	3.09	0.46
2:I:31:ALA:HB1	2:I:134:PHE:CE1	2.50	0.46
2:I:89:GLN:HG2	2:I:103:ARG:CD	2.45	0.46
2:K:22:GLU:C	2:K:23:MET:HG2	2.35	0.46
2:K:23:MET:HA	2:K:70:PHE:CD2	2.51	0.46
1:A:80:PRO:C	1:A:82:TYR:H	2.18	0.46
1:B:338:LEU:HD23	1:B:366:VAL:HG12	1.95	0.46
1:C:172:ASP:OD1	1:C:173:GLU:HG3	2.15	0.46
1:D:172:ASP:OD1	1:D:173:GLU:HG3	2.15	0.46
1:D:540:ASN:O	1:D:541:GLU:HB2	2.09	0.46
1:E:44:GLY:C	1:E:189:GLU:OE1	2.52	0.46
1:E:172:ASP:OD1	1:E:173:GLU:HG3	2.15	0.46
1:E:173:GLU:CD	1:E:201:ASP:OD2	2.53	0.46
1:E:287:GLU:HA	1:E:287:GLU:OE1	2.14	0.46
1:F:522:ALA:O	1:F:526:LYS:HB2	2.16	0.46
2:G:24:ALA:CB	2:G:71:VAL:CB	2.86	0.46
2:G:58:THR:CG2	2:G:59:GLY:N	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:23:MET:HA	2:I:70:PHE:CD2	2.51	0.46
2:I:26:ILE:HD11	2:I:61:ALA:CB	2.45	0.46
2:J:23:MET:O	2:J:70:PHE:C	2.54	0.46
2:K:31:ALA:HB1	2:K:134:PHE:CE1	2.51	0.46
2:L:23:MET:HA	2:L:70:PHE:CD2	2.51	0.46
1:C:287:GLU:HA	1:C:287:GLU:OE1	2.14	0.46
1:C:437:VAL:CB	1:C:462:PHE:CE1	2.96	0.46
1:D:522:ALA:O	1:D:526:LYS:HB2	2.16	0.46
1:E:382:ALA:O	1:E:384:LEU:HD22	2.15	0.46
1:E:522:ALA:O	1:E:526:LYS:HB2	2.15	0.46
1:E:550:VAL:HG21	1:E:555:GLU:C	2.36	0.46
1:F:172:ASP:OD1	1:F:173:GLU:HG3	2.15	0.46
1:F:366:VAL:O	1:F:393:ALA:HB2	2.14	0.46
2:G:31:ALA:HB1	2:G:134:PHE:CE1	2.51	0.46
2:G:130:VAL:CB	2:H:6:GLN:CG	2.94	0.46
2:H:140:PRO:HG2	2:H:141:GLU:H	1.81	0.46
2:I:140:PRO:HG2	2:I:141:GLU:H	1.81	0.46
2:K:17:PHE:CA	2:K:74:MET:HE1	2.44	0.46
2:K:18:LEU:C	2:K:18:LEU:HD23	2.34	0.46
2:K:140:PRO:HG2	2:K:141:GLU:H	1.81	0.46
2:L:140:PRO:HG2	2:L:141:GLU:H	1.81	0.46
1:B:76:TRP:CD2	1:B:415:VAL:HG23	2.51	0.46
1:B:550:VAL:HG21	1:B:555:GLU:C	2.36	0.46
1:C:363:ARG:HH22	1:C:495:GLU:HG3	1.81	0.46
1:D:550:VAL:HG21	1:D:555:GLU:C	2.36	0.46
1:F:80:PRO:C	1:F:82:TYR:N	2.68	0.46
2:H:17:PHE:N	2:H:17:PHE:HD1	2.14	0.46
2:J:140:PRO:HG2	2:J:141:GLU:H	1.81	0.46
2:K:23:MET:SD	2:K:77:TYR:CD2	3.09	0.46
1:A:135:ARG:O	1:A:135:ARG:HG2	2.16	0.46
1:A:320:TRP:CH2	1:A:343:SER:O	2.61	0.46
1:A:542:ILE:HG22	1:A:543:GLN:N	2.30	0.46
1:B:173:GLU:O	1:B:174:GLU:C	2.54	0.46
1:B:175:THR:O	1:B:176:GLN:CB	2.59	0.46
1:C:130:ASP:C	1:C:130:ASP:OD1	2.52	0.46
1:C:150:ILE:HA	1:C:153:ILE:HG13	1.98	0.46
1:D:281:GLU:O	1:D:284:ALA:N	2.49	0.46
1:D:431:THR:OG1	1:D:434:PRO:CD	2.63	0.46
1:D:542:ILE:HG22	1:D:543:GLN:N	2.30	0.46
1:E:281:GLU:O	1:E:284:ALA:N	2.49	0.46
1:F:449:LEU:CA	1:F:452:LEU:HG	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:491:MET:C	1:F:493:VAL:CG2	2.82	0.46
2:G:23:MET:C	2:G:70:PHE:O	2.54	0.46
2:G:89:GLN:HG2	2:G:103:ARG:CD	2.45	0.46
2:H:23:MET:HA	2:H:70:PHE:CD2	2.51	0.46
2:L:31:ALA:HB1	2:L:134:PHE:CE1	2.50	0.46
1:A:76:TRP:CD2	1:A:415:VAL:HG23	2.51	0.46
1:A:363:ARG:HH22	1:A:495:GLU:HG3	1.81	0.46
1:A:550:VAL:HG21	1:A:555:GLU:C	2.36	0.46
1:B:137:ILE:HG22	1:B:143:PHE:HD1	1.81	0.46
1:C:39:ILE:CD1	1:C:327:PHE:CG	2.96	0.46
1:C:528:PHE:CE1	2:J:107:TYR:CD2	3.04	0.46
1:C:537:LYS:HD3	1:C:537:LYS:C	2.36	0.46
1:E:247:TYR:O	1:E:262:ASN:HA	2.16	0.46
1:F:76:TRP:CD2	1:F:415:VAL:HG23	2.51	0.46
1:F:150:ILE:HA	1:F:153:ILE:HG13	1.98	0.46
1:F:264:ILE:CD1	1:F:266:SER:HB3	2.44	0.46
2:G:22:GLU:O	2:G:23:MET:HG2	2.10	0.46
2:G:23:MET:HA	2:G:70:PHE:CD2	2.51	0.46
2:G:23:MET:SD	2:G:77:TYR:CD2	3.08	0.46
2:H:23:MET:C	2:H:71:VAL:CA	2.71	0.46
2:H:23:MET:C	2:H:70:PHE:O	2.54	0.46
2:H:68:SER:CB	2:I:92:LEU:HD23	2.46	0.46
2:H:89:GLN:HG2	2:H:103:ARG:CD	2.45	0.46
2:J:106:LEU:HD13	2:J:106:LEU:HA	1.79	0.46
2:K:68:SER:CB	2:L:92:LEU:HD23	2.46	0.46
2:K:70:PHE:H	2:L:99:ARG:CD	2.10	0.46
1:A:463:VAL:HG12	1:A:464:ARG:HG3	1.97	0.45
1:C:47:PRO:HB3	1:C:111:ILE:HB	1.72	0.45
1:C:278:SER:O	1:C:279:ASN:C	2.46	0.45
1:C:463:VAL:HG12	1:C:464:ARG:HG3	1.97	0.45
1:D:46:GLU:HA	1:D:191:LYS:HD2	1.18	0.45
1:D:53:LEU:HD21	1:D:63:PHE:CE2	2.37	0.45
1:D:150:ILE:HA	1:D:153:ILE:HG13	1.98	0.45
1:D:247:TYR:O	1:D:262:ASN:HA	2.16	0.45
1:D:278:SER:O	1:D:279:ASN:C	2.46	0.45
1:D:463:VAL:HG12	1:D:464:ARG:HG3	1.97	0.45
1:E:247:TYR:N	1:E:247:TYR:CD2	2.82	0.45
1:F:382:ALA:O	1:F:384:LEU:HD22	2.15	0.45
2:G:17:PHE:N	2:G:17:PHE:HD1	2.14	0.45
2:G:68:SER:CB	2:H:92:LEU:HD23	2.46	0.45
2:J:68:SER:CB	2:K:92:LEU:HD23	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:THR:C	1:A:434:PRO:CD	2.85	0.45
1:B:80:PRO:C	1:B:82:TYR:H	2.18	0.45
1:B:382:ALA:O	1:B:384:LEU:HD22	2.15	0.45
1:B:462:PHE:HD2	1:B:467:THR:N	2.13	0.45
1:C:173:GLU:O	1:C:174:GLU:C	2.54	0.45
1:C:281:GLU:O	1:C:284:ALA:N	2.49	0.45
1:C:540:ASN:C	1:C:541:GLU:HG3	2.21	0.45
1:D:135:ARG:O	1:D:135:ARG:HG2	2.16	0.45
1:D:399:VAL:HG23	1:D:411:TYR:CE1	2.52	0.45
1:E:39:ILE:CD1	1:E:327:PHE:CG	2.96	0.45
1:E:134:LEU:CD2	1:E:137:ILE:HG23	2.45	0.45
1:E:173:GLU:O	1:E:174:GLU:C	2.54	0.45
1:E:363:ARG:HH22	1:E:495:GLU:HG3	1.81	0.45
1:F:250:ALA:O	1:F:252:PHE:CE1	2.70	0.45
1:F:261:TYR:CD1	1:F:261:TYR:N	2.84	0.45
1:F:338:LEU:HD13	1:F:367:GLY:HA3	1.61	0.45
1:F:370:PHE:HZ	1:F:448:ASP:OD2	1.90	0.45
1:F:542:ILE:HG22	1:F:543:GLN:N	2.30	0.45
2:K:24:ALA:HA	2:L:98:GLY:HA3	1.42	0.45
2:L:23:MET:O	2:L:70:PHE:C	2.54	0.45
2:L:23:MET:SD	2:L:77:TYR:CD2	3.09	0.45
1:A:250:ALA:O	1:A:252:PHE:CE1	2.70	0.45
1:A:281:GLU:O	1:A:284:ALA:N	2.49	0.45
1:A:338:LEU:HD21	1:A:393:ALA:HB3	1.97	0.45
1:A:382:ALA:O	1:A:384:LEU:HD22	2.15	0.45
1:A:387:PRO:HG2	1:A:390:SER:N	2.31	0.45
1:A:428:GLU:O	1:A:429:SER:HB3	2.14	0.45
1:C:44:GLY:C	1:C:189:GLU:OE1	2.52	0.45
1:C:387:PRO:HG2	1:C:390:SER:N	2.31	0.45
1:D:250:ALA:O	1:D:252:PHE:CE1	2.70	0.45
1:E:338:LEU:HD21	1:E:393:ALA:HB3	1.97	0.45
1:F:247:TYR:O	1:F:262:ASN:HA	2.16	0.45
1:F:537:LYS:HD3	1:F:537:LYS:C	2.36	0.45
1:F:550:VAL:HG21	1:F:555:GLU:C	2.36	0.45
1:A:34:LYS:HB3	1:A:422:SER:HA	1.98	0.45
1:A:137:ILE:HG22	1:A:143:PHE:HD1	1.81	0.45
1:A:170:GLU:OE2	1:A:285:GLY:O	2.35	0.45
1:A:491:MET:C	1:A:493:VAL:CG2	2.82	0.45
1:B:132:LEU:HD12	1:B:149:ASN:H	1.82	0.45
1:B:170:GLU:OE2	1:B:285:GLY:O	2.35	0.45
1:B:338:LEU:HD11	1:B:366:VAL:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:363:ARG:HH22	1:B:495:GLU:HG3	1.81	0.45
1:B:452:LEU:HB2	1:B:457:ILE:HG23	1.95	0.45
1:C:170:GLU:OE2	1:C:285:GLY:O	2.35	0.45
1:C:355:ARG:HB2	1:C:361:PRO:HD2	1.95	0.45
1:C:462:PHE:HD2	1:C:467:THR:N	2.13	0.45
1:F:44:GLY:C	1:F:189:GLU:OE1	2.52	0.45
1:F:281:GLU:O	1:F:284:ALA:N	2.49	0.45
1:F:387:PRO:HG2	1:F:390:SER:N	2.31	0.45
1:F:428:GLU:O	1:F:429:SER:HB3	2.13	0.45
2:G:140:PRO:HG2	2:G:141:GLU:H	1.81	0.45
2:H:130:VAL:HA	2:H:131:PRO:HD3	1.79	0.45
1:A:437:VAL:CB	1:A:462:PHE:CE1	2.96	0.45
1:A:540:ASN:C	1:A:541:GLU:HG3	2.20	0.45
1:B:247:TYR:O	1:B:262:ASN:HA	2.16	0.45
1:B:431:THR:C	1:B:434:PRO:CD	2.85	0.45
1:C:370:PHE:HA	1:C:373:SER:CB	2.45	0.45
1:C:550:VAL:HG21	1:C:555:GLU:C	2.36	0.45
1:D:387:PRO:HG2	1:D:390:SER:N	2.31	0.45
1:E:39:ILE:HD12	1:E:327:PHE:HB2	1.78	0.45
1:E:130:ASP:C	1:E:130:ASP:OD1	2.52	0.45
1:E:250:ALA:O	1:E:252:PHE:CE1	2.70	0.45
1:E:387:PRO:HG2	1:E:390:SER:N	2.31	0.45
1:E:437:VAL:CB	1:E:462:PHE:CE1	2.96	0.45
1:F:34:LYS:HB3	1:F:422:SER:HA	1.98	0.45
1:F:264:ILE:HG22	1:F:277:PRO:C	2.35	0.45
2:G:142:LYS:O	2:G:143:LEU:HD23	2.17	0.45
2:H:142:LYS:O	2:H:143:LEU:HD23	2.17	0.45
1:A:132:LEU:HD12	1:A:149:ASN:H	1.82	0.45
1:A:150:ILE:HA	1:A:153:ILE:HG13	1.98	0.45
1:A:173:GLU:O	1:A:174:GLU:C	2.54	0.45
1:B:150:ILE:HA	1:B:153:ILE:HG13	1.98	0.45
1:D:550:VAL:HG21	1:D:555:GLU:O	2.17	0.45
1:E:278:SER:O	1:E:279:ASN:C	2.46	0.45
1:E:320:TRP:CH2	1:E:343:SER:O	2.61	0.45
1:E:550:VAL:HG21	1:E:555:GLU:O	2.16	0.45
1:F:47:PRO:HG3	1:F:111:ILE:HA	1.73	0.45
1:F:135:ARG:O	1:F:135:ARG:HG2	2.16	0.45
1:F:452:LEU:C	1:F:457:ILE:HG22	2.37	0.45
2:G:17:PHE:HA	2:G:74:MET:HE1	1.98	0.45
1:A:80:PRO:HG3	1:A:415:VAL:CG2	2.34	0.45
1:A:366:VAL:O	1:A:393:ALA:HB2	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:LEU:HD21	1:B:63:PHE:CE2	2.37	0.45
1:B:92:ILE:CD1	1:B:323:LYS:CG	2.78	0.45
1:B:93:GLU:CD	1:B:140:ASP:CB	2.77	0.45
1:B:281:GLU:O	1:B:284:ALA:N	2.49	0.45
1:B:437:VAL:CB	1:B:462:PHE:CE1	2.96	0.45
1:B:550:VAL:HG21	1:B:555:GLU:O	2.17	0.45
1:D:355:ARG:HB2	1:D:361:PRO:HD2	1.95	0.45
1:E:36:PHE:HE2	1:E:419:GLY:HA2	1.74	0.45
1:E:106:LYS:NZ	1:E:146:VAL:HG11	2.32	0.45
1:E:132:LEU:HD21	1:E:148:ASP:HB3	1.38	0.45
1:F:39:ILE:HD11	1:F:327:PHE:CG	2.46	0.45
1:F:106:LYS:NZ	1:F:146:VAL:HG11	2.32	0.45
1:F:170:GLU:OE2	1:F:285:GLY:O	2.35	0.45
1:F:463:VAL:HG12	1:F:464:ARG:HG3	1.97	0.45
2:I:23:MET:O	2:I:70:PHE:C	2.54	0.45
2:J:63:PHE:C	2:K:96:SER:HB3	2.33	0.45
2:L:88:LEU:HD23	2:L:89:GLN:N	2.30	0.45
2:L:130:VAL:HA	2:L:131:PRO:HD3	1.79	0.45
1:A:247:TYR:O	1:A:262:ASN:HA	2.16	0.45
1:A:452:LEU:C	1:A:457:ILE:HG22	2.37	0.45
1:C:34:LYS:HB3	1:C:422:SER:HA	1.98	0.45
1:D:39:ILE:CB	1:D:326:LYS:HZ3	2.26	0.45
1:D:254:ASP:C	1:D:256:GLU:N	2.68	0.45
1:D:431:THR:C	1:D:434:PRO:CD	2.85	0.45
1:D:540:ASN:C	1:D:541:GLU:HG3	2.21	0.45
1:E:55:ASN:CB	1:E:58:GLN:HG2	2.47	0.45
1:F:36:PHE:HE2	1:F:419:GLY:HA2	1.74	0.45
1:F:134:LEU:CD2	1:F:137:ILE:HG23	2.45	0.45
1:F:254:ASP:O	1:F:255:LEU:CB	2.56	0.45
1:F:355:ARG:HB2	1:F:361:PRO:HD2	1.95	0.45
1:F:363:ARG:HH22	1:F:495:GLU:HG3	1.81	0.45
2:G:27:LYS:HB3	2:G:28:THR:H	1.63	0.45
2:I:23:MET:C	2:I:70:PHE:O	2.54	0.45
2:K:16:LEU:HD21	2:K:74:MET:HB3	1.99	0.45
2:K:23:MET:C	2:K:70:PHE:O	2.54	0.45
2:K:68:SER:N	2:L:99:ARG:CZ	2.79	0.45
2:L:142:LYS:O	2:L:143:LEU:HD23	2.17	0.45
1:A:324:LEU:CD1	1:A:351:PHE:CE2	3.00	0.45
1:B:387:PRO:HG2	1:B:390:SER:N	2.31	0.45
1:C:135:ARG:O	1:C:135:ARG:HG2	2.16	0.45
1:C:338:LEU:HD11	1:C:366:VAL:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:106:LYS:NZ	1:D:146:VAL:HG11	2.32	0.45
1:D:134:LEU:CD2	1:D:137:ILE:HG23	2.45	0.45
1:D:320:TRP:O	1:D:323:LYS:HB2	2.17	0.45
1:D:363:ARG:HH22	1:D:495:GLU:HG3	1.81	0.45
1:D:452:LEU:C	1:D:457:ILE:HG22	2.37	0.45
1:E:76:TRP:CD2	1:E:415:VAL:HG23	2.51	0.45
1:E:80:PRO:C	1:E:82:TYR:N	2.68	0.45
1:E:135:ARG:O	1:E:135:ARG:HG2	2.16	0.45
1:E:363:ARG:CD	1:E:365:ILE:HD11	2.47	0.45
1:F:431:THR:C	1:F:434:PRO:CD	2.85	0.45
2:I:16:LEU:HD21	2:I:74:MET:HB3	1.99	0.45
1:A:320:TRP:O	1:A:323:LYS:HB2	2.17	0.45
1:A:338:LEU:HD11	1:A:366:VAL:C	2.37	0.45
1:A:399:VAL:HG23	1:A:411:TYR:CE1	2.52	0.45
1:A:540:ASN:O	1:A:541:GLU:HB2	2.09	0.45
1:C:106:LYS:NZ	1:C:146:VAL:HG11	2.32	0.45
1:C:132:LEU:HD12	1:C:149:ASN:H	1.82	0.45
1:C:137:ILE:HG22	1:C:143:PHE:HD1	1.81	0.45
1:C:250:ALA:O	1:C:252:PHE:CE1	2.70	0.45
1:C:285:GLY:O	1:C:286:GLU:C	2.47	0.45
1:D:170:GLU:OE2	1:D:285:GLY:O	2.35	0.45
1:D:277:PRO:HA	1:D:282:VAL:HG22	1.99	0.45
1:E:150:ILE:HA	1:E:153:ILE:HG13	1.98	0.45
1:E:261:TYR:CD1	1:E:261:TYR:N	2.84	0.45
1:E:504:LEU:HB2	1:E:578:LEU:HD12	1.99	0.45
1:F:39:ILE:CD1	1:F:327:PHE:CG	2.96	0.45
1:F:172:ASP:HA	1:F:173:GLU:HA	1.73	0.45
1:F:320:TRP:O	1:F:323:LYS:HB2	2.17	0.45
1:F:355:ARG:HD3	1:F:362:MET:SD	2.57	0.45
2:G:98:GLY:CA	2:L:71:VAL:CG1	2.88	0.45
1:A:79:ASN:CB	1:A:433:LYS:HD3	2.45	0.44
1:A:279:ASN:O	1:A:280:VAL:C	2.52	0.44
1:A:363:ARG:CD	1:A:365:ILE:HD11	2.47	0.44
1:B:106:LYS:NZ	1:B:146:VAL:HG11	2.32	0.44
1:B:320:TRP:O	1:B:323:LYS:HB2	2.17	0.44
1:B:324:LEU:CD1	1:B:351:PHE:CE2	3.00	0.44
1:B:355:ARG:HD3	1:B:362:MET:SD	2.58	0.44
1:C:324:LEU:CD1	1:C:351:PHE:CE2	3.00	0.44
1:C:431:THR:C	1:C:434:PRO:CD	2.85	0.44
1:D:36:PHE:HE2	1:D:419:GLY:HA2	1.74	0.44
1:E:47:PRO:HG3	1:E:111:ILE:HA	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:153:ILE:H	1:F:153:ILE:HG12	1.55	0.44
1:F:338:LEU:HD21	1:F:393:ALA:HB3	1.97	0.44
2:G:10:SER:O	2:G:93:ASP:OD1	2.36	0.44
2:G:92:LEU:HD23	2:L:68:SER:CB	2.46	0.44
2:H:24:ALA:HA	2:I:98:GLY:HA3	1.42	0.44
2:I:24:ALA:HA	2:J:98:GLY:HA3	1.42	0.44
2:I:142:LYS:O	2:I:143:LEU:HD23	2.17	0.44
2:K:23:MET:O	2:K:70:PHE:C	2.54	0.44
2:K:77:TYR:HA	2:K:80:LYS:HE3	1.99	0.44
2:L:16:LEU:HD21	2:L:74:MET:HB3	1.99	0.44
2:L:17:PHE:HA	2:L:74:MET:HE1	2.00	0.44
1:A:106:LYS:NZ	1:A:146:VAL:HG11	2.32	0.44
1:A:153:ILE:H	1:A:153:ILE:HG12	1.55	0.44
1:A:550:VAL:HG21	1:A:555:GLU:O	2.17	0.44
1:B:135:ARG:O	1:B:135:ARG:HG2	2.16	0.44
1:B:463:VAL:HG12	1:B:464:ARG:HG3	1.97	0.44
1:C:53:LEU:HD21	1:C:63:PHE:CE2	2.37	0.44
1:C:277:PRO:HA	1:C:282:VAL:HG22	2.00	0.44
1:C:387:PRO:HD2	1:C:390:SER:HB3	1.91	0.44
1:C:399:VAL:HG23	1:C:411:TYR:CE1	2.52	0.44
1:E:53:LEU:HD21	1:E:63:PHE:CE2	2.37	0.44
1:E:170:GLU:OE2	1:E:285:GLY:O	2.35	0.44
1:E:431:THR:C	1:E:434:PRO:CD	2.85	0.44
1:E:449:LEU:CA	1:E:452:LEU:HG	2.44	0.44
1:E:452:LEU:C	1:E:457:ILE:HG22	2.37	0.44
1:E:463:VAL:HG12	1:E:464:ARG:HG3	1.97	0.44
1:F:114:ASN:N	1:F:117:ASN:ND2	2.57	0.44
1:F:324:LEU:CD1	1:F:351:PHE:CE2	3.00	0.44
1:B:134:LEU:HD21	1:B:137:ILE:HG23	1.87	0.44
1:B:250:ALA:O	1:B:252:PHE:CE1	2.70	0.44
1:C:47:PRO:HG3	1:C:93:GLU:CD	2.36	0.44
1:C:114:ASN:N	1:C:117:ASN:ND2	2.57	0.44
1:C:320:TRP:O	1:C:323:LYS:HB2	2.17	0.44
1:C:528:PHE:CE1	2:J:107:TYR:CG	3.04	0.44
1:D:337:PRO:HG2	1:D:366:VAL:CA	2.43	0.44
1:E:47:PRO:HB3	1:E:111:ILE:HB	1.72	0.44
1:E:92:ILE:CD1	1:E:323:LYS:CG	2.78	0.44
1:E:277:PRO:HA	1:E:282:VAL:HG22	2.00	0.44
1:E:338:LEU:HD11	1:E:366:VAL:C	2.37	0.44
1:E:528:PHE:CZ	2:L:107:TYR:CB	2.84	0.44
1:F:338:LEU:HD11	1:F:366:VAL:C	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:10:SER:O	2:H:93:ASP:OD1	2.36	0.44
2:H:16:LEU:HD21	2:H:74:MET:HB3	1.99	0.44
2:H:77:TYR:HA	2:H:80:LYS:HE3	1.99	0.44
2:L:10:SER:O	2:L:93:ASP:OD1	2.35	0.44
1:D:55:ASN:CB	1:D:58:GLN:HG2	2.47	0.44
1:D:170:GLU:CD	1:D:287:GLU:CA	2.47	0.44
1:D:324:LEU:CD1	1:D:351:PHE:CE2	3.00	0.44
1:D:338:LEU:HD11	1:D:366:VAL:C	2.37	0.44
1:D:338:LEU:HD21	1:D:393:ALA:HB3	1.97	0.44
1:D:363:ARG:CD	1:D:365:ILE:HD11	2.48	0.44
1:E:387:PRO:HD2	1:E:390:SER:HB2	1.67	0.44
1:F:363:ARG:CD	1:F:365:ILE:HD11	2.47	0.44
1:F:417:LEU:CD1	1:F:458:ILE:HG21	2.47	0.44
1:F:504:LEU:HB2	1:F:578:LEU:HD12	2.00	0.44
1:F:579:VAL:O	1:F:579:VAL:HG23	2.18	0.44
2:G:68:SER:N	2:H:99:ARG:CZ	2.79	0.44
2:G:116:ILE:CA	2:G:119:LEU:HD13	2.47	0.44
2:I:68:SER:N	2:J:99:ARG:CZ	2.79	0.44
2:J:17:PHE:N	2:J:17:PHE:HD1	2.14	0.44
2:J:112:ASP:HB3	2:J:115:LYS:CD	2.41	0.44
2:J:127:GLU:CA	2:K:8:THR:CG2	2.89	0.44
2:K:10:SER:O	2:K:93:ASP:OD1	2.36	0.44
1:A:39:ILE:CD1	1:A:327:PHE:CG	2.96	0.44
1:A:338:LEU:HD13	1:A:367:GLY:HA3	1.61	0.44
1:B:264:ILE:CG1	1:B:266:SER:H	2.03	0.44
1:C:337:PRO:HG2	1:C:366:VAL:CA	2.43	0.44
1:C:355:ARG:HD3	1:C:362:MET:SD	2.58	0.44
1:D:135:ARG:HH11	1:D:135:ARG:HD3	1.39	0.44
1:D:449:LEU:HA	1:D:452:LEU:CG	2.48	0.44
1:E:34:LYS:HB3	1:E:422:SER:HA	1.98	0.44
1:E:370:PHE:HZ	1:E:448:ASP:OD2	1.90	0.44
2:H:23:MET:O	2:H:70:PHE:C	2.54	0.44
2:H:58:THR:CG2	2:H:59:GLY:N	2.77	0.44
2:I:68:SER:CB	2:J:92:LEU:HD23	2.46	0.44
2:J:10:SER:O	2:J:93:ASP:OD1	2.36	0.44
2:L:23:MET:C	2:L:70:PHE:O	2.54	0.44
1:A:524:ILE:HG12	2:H:107:TYR:CZ	2.51	0.44
1:B:47:PRO:HG3	1:B:93:GLU:CD	2.36	0.44
1:B:279:ASN:O	1:B:280:VAL:C	2.52	0.44
1:F:132:LEU:HD12	1:F:149:ASN:H	1.82	0.44
2:J:77:TYR:HA	2:J:80:LYS:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:77:TYR:HA	2:L:80:LYS:HE3	1.99	0.44
1:A:370:PHE:HZ	1:A:448:ASP:OD2	1.90	0.44
1:B:34:LYS:HB3	1:B:422:SER:HA	1.98	0.44
1:B:39:ILE:HD11	1:B:327:PHE:CG	2.46	0.44
1:B:367:GLY:N	1:B:393:ALA:HB3	2.33	0.44
1:C:452:LEU:C	1:C:457:ILE:HG22	2.37	0.44
1:C:550:VAL:HG21	1:C:555:GLU:O	2.17	0.44
1:D:154:PHE:CE2	1:D:199:ALA:HB1	2.46	0.44
1:E:320:TRP:O	1:E:323:LYS:HB2	2.17	0.44
1:E:324:LEU:CD1	1:E:351:PHE:CE2	3.00	0.44
1:E:449:LEU:HA	1:E:452:LEU:CG	2.48	0.44
1:F:437:VAL:CB	1:F:462:PHE:CE1	2.96	0.44
2:G:16:LEU:HD21	2:G:74:MET:HB3	1.99	0.44
2:L:112:ASP:HB3	2:L:115:LYS:CD	2.41	0.44
1:A:261:TYR:CD1	1:A:261:TYR:N	2.84	0.44
1:A:370:PHE:HA	1:A:373:SER:CB	2.45	0.44
1:A:462:PHE:HD2	1:A:467:THR:N	2.13	0.44
1:B:254:ASP:C	1:B:256:GLU:N	2.68	0.44
1:B:399:VAL:HG23	1:B:411:TYR:CE1	2.52	0.44
1:B:413:VAL:HG21	1:B:460:ILE:HD11	2.00	0.44
1:D:397:THR:HG22	1:D:398:PHE:N	2.33	0.44
1:D:579:VAL:HG23	1:D:579:VAL:O	2.18	0.44
1:E:282:VAL:CG1	1:E:287:GLU:CD	2.36	0.44
1:E:355:ARG:HD3	1:E:362:MET:SD	2.58	0.44
1:E:413:VAL:HG21	1:E:460:ILE:HD11	2.00	0.44
1:E:579:VAL:O	1:E:579:VAL:HG23	2.18	0.44
1:F:399:VAL:HG23	1:F:411:TYR:CE1	2.52	0.44
1:F:550:VAL:HG21	1:F:555:GLU:O	2.17	0.44
2:G:8:THR:HG21	2:L:128:GLU:CA	2.26	0.44
2:I:10:SER:O	2:I:93:ASP:OD1	2.35	0.44
2:J:16:LEU:HD21	2:J:74:MET:HB3	1.99	0.44
1:A:417:LEU:CD1	1:A:458:ILE:HG21	2.47	0.44
1:B:363:ARG:CD	1:B:365:ILE:HD11	2.47	0.44
1:C:338:LEU:HD21	1:C:393:ALA:HB3	1.97	0.44
1:D:34:LYS:HB3	1:D:422:SER:HA	1.98	0.44
1:D:421:ALA:C	1:D:423:GLY:N	2.72	0.44
1:E:113:GLY:H	1:E:141:ASP:CB	2.09	0.44
1:E:134:LEU:HD21	1:E:137:ILE:HG23	1.87	0.44
1:F:137:ILE:HG22	1:F:143:PHE:HD1	1.82	0.44
1:F:246:VAL:C	1:F:247:TYR:CD2	2.92	0.44
2:G:127:GLU:CA	2:H:8:THR:CG2	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:130:VAL:HG23	2:I:6:GLN:HG2	1.72	0.44
1:A:44:GLY:C	1:A:189:GLU:OE1	2.52	0.43
1:B:277:PRO:HA	1:B:282:VAL:HG22	1.99	0.43
1:B:540:ASN:C	1:B:541:GLU:HG3	2.21	0.43
1:C:363:ARG:CD	1:C:365:ILE:HD11	2.47	0.43
1:D:355:ARG:HD3	1:D:362:MET:SD	2.58	0.43
1:D:518:ILE:HG13	1:D:521:SER:N	2.32	0.43
1:E:246:VAL:C	1:E:247:TYR:CD2	2.92	0.43
1:F:33:GLU:O	1:F:35:VAL:N	2.51	0.43
1:F:66:GLY:N	1:F:74:LEU:HD22	2.33	0.43
2:G:99:ARG:CZ	2:L:68:SER:N	2.79	0.43
2:I:18:LEU:CB	2:I:74:MET:CE	2.96	0.43
2:K:71:VAL:CG1	2:L:98:GLY:CA	2.88	0.43
1:A:66:GLY:N	1:A:74:LEU:HD22	2.34	0.43
1:B:47:PRO:HB3	1:B:111:ILE:HB	1.72	0.43
1:B:137:ILE:HD12	1:B:141:ASP:HA	2.00	0.43
1:B:452:LEU:C	1:B:457:ILE:HG22	2.37	0.43
1:C:246:VAL:C	1:C:247:TYR:CD2	2.91	0.43
1:C:367:GLY:HA2	1:C:393:ALA:O	2.19	0.43
1:D:253:GLY:O	1:D:254:ASP:CB	2.60	0.43
1:E:367:GLY:N	1:E:393:ALA:HB3	2.33	0.43
1:E:397:THR:HG22	1:E:398:PHE:N	2.33	0.43
1:F:397:THR:HG22	1:F:398:PHE:N	2.33	0.43
1:F:560:ARG:CB	1:F:579:VAL:HG12	2.48	0.43
2:L:17:PHE:N	2:L:17:PHE:HD1	2.14	0.43
1:A:39:ILE:CD1	1:A:327:PHE:CD1	3.01	0.43
1:A:246:VAL:C	1:A:247:TYR:CD2	2.91	0.43
1:A:270:LEU:CD1	1:A:270:LEU:C	2.82	0.43
1:A:397:THR:HG22	1:A:398:PHE:N	2.33	0.43
1:B:79:ASN:HA	1:B:82:TYR:CD2	2.53	0.43
1:B:246:VAL:C	1:B:247:TYR:CD2	2.91	0.43
1:B:283:GLU:CA	1:B:287:GLU:HB3	2.38	0.43
1:B:504:LEU:HB2	1:B:578:LEU:HD12	2.00	0.43
1:B:528:PHE:HE1	2:I:107:TYR:CB	2.31	0.43
1:B:579:VAL:O	1:B:579:VAL:HG23	2.18	0.43
1:C:51:TYR:OH	1:C:62:LEU:CD1	2.66	0.43
1:D:39:ILE:CD1	1:D:327:PHE:CD1	3.01	0.43
1:D:283:GLU:C	1:D:285:GLY:N	2.66	0.43
1:E:33:GLU:O	1:E:35:VAL:N	2.51	0.43
1:E:173:GLU:N	1:E:173:GLU:CD	2.72	0.43
1:E:181:LEU:HD23	1:E:194:ASP:CG	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:254:ASP:C	1:E:256:GLU:N	2.68	0.43
1:F:181:LEU:HD23	1:F:194:ASP:CG	2.39	0.43
2:G:77:TYR:HA	2:G:80:LYS:HE3	1.99	0.43
2:G:112:ASP:HB3	2:G:115:LYS:CD	2.41	0.43
2:H:18:LEU:CB	2:H:74:MET:CE	2.96	0.43
1:A:39:ILE:HD11	1:A:327:PHE:CG	2.46	0.43
1:A:79:ASN:HA	1:A:82:TYR:CD2	2.53	0.43
1:A:355:ARG:HD3	1:A:362:MET:SD	2.58	0.43
1:A:421:ALA:C	1:A:423:GLY:N	2.72	0.43
1:A:579:VAL:O	1:A:579:VAL:HG23	2.18	0.43
1:B:33:GLU:O	1:B:35:VAL:N	2.51	0.43
1:B:51:TYR:OH	1:B:62:LEU:CD1	2.66	0.43
1:B:79:ASN:CB	1:B:433:LYS:HD3	2.45	0.43
1:B:526:LYS:HE3	1:B:546:PRO:CB	2.48	0.43
1:B:528:PHE:CZ	2:I:107:TYR:CG	3.07	0.43
1:C:55:ASN:CB	1:C:58:GLN:HG2	2.47	0.43
1:C:66:GLY:N	1:C:74:LEU:HD22	2.33	0.43
1:C:93:GLU:CB	1:C:140:ASP:OD1	2.66	0.43
1:C:326:LYS:HZ2	1:C:326:LYS:HB3	1.84	0.43
1:C:398:PHE:HE1	1:C:438:SER:N	2.17	0.43
1:C:504:LEU:HB2	1:C:578:LEU:HD12	2.00	0.43
1:D:66:GLY:N	1:D:74:LEU:HD22	2.34	0.43
1:D:130:ASP:C	1:D:130:ASP:OD1	2.52	0.43
1:E:137:ILE:HG22	1:E:143:PHE:HD1	1.82	0.43
1:E:172:ASP:HA	1:E:173:GLU:HA	1.73	0.43
1:E:367:GLY:HA2	1:E:393:ALA:O	2.19	0.43
1:E:560:ARG:CB	1:E:579:VAL:HG12	2.48	0.43
1:F:90:MET:HB2	1:F:326:LYS:HG2	2.01	0.43
1:F:283:GLU:C	1:F:285:GLY:N	2.66	0.43
1:F:413:VAL:HG21	1:F:460:ILE:HD11	2.00	0.43
2:I:77:TYR:HA	2:I:80:LYS:HE3	1.99	0.43
2:J:23:MET:C	2:J:70:PHE:O	2.54	0.43
2:K:17:PHE:N	2:K:17:PHE:HD1	2.14	0.43
2:K:112:ASP:HB3	2:K:115:LYS:CD	2.41	0.43
2:K:142:LYS:O	2:K:143:LEU:HD23	2.17	0.43
1:B:181:LEU:HD23	1:B:194:ASP:CG	2.39	0.43
1:C:33:GLU:O	1:C:35:VAL:N	2.51	0.43
1:C:285:GLY:C	1:C:287:GLU:N	2.69	0.43
1:C:333:TYR:O	1:C:362:MET:HA	2.18	0.43
1:C:338:LEU:CD2	1:C:366:VAL:HG12	2.40	0.43
1:D:132:LEU:HD12	1:D:149:ASN:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:413:VAL:HG21	1:D:460:ILE:HD11	2.00	0.43
1:E:90:MET:HB2	1:E:326:LYS:HG2	2.00	0.43
1:E:285:GLY:C	1:E:287:GLU:N	2.69	0.43
2:L:18:LEU:CB	2:L:74:MET:CE	2.96	0.43
2:L:23:MET:C	2:L:71:VAL:CA	2.71	0.43
1:A:33:GLU:O	1:A:35:VAL:N	2.51	0.43
1:A:77:GLY:O	1:A:78:SER:C	2.57	0.43
1:A:113:GLY:H	1:A:141:ASP:CB	2.09	0.43
1:A:173:GLU:N	1:A:173:GLU:CD	2.72	0.43
1:A:181:LEU:HD23	1:A:194:ASP:CG	2.39	0.43
1:A:526:LYS:HE3	1:A:546:PRO:CB	2.48	0.43
1:B:39:ILE:CD1	1:B:327:PHE:CD1	3.01	0.43
1:B:77:GLY:O	1:B:78:SER:C	2.57	0.43
1:B:143:PHE:HE2	1:B:183:LEU:HD13	1.84	0.43
1:B:173:GLU:N	1:B:173:GLU:CD	2.72	0.43
1:C:557:ASN:HD22	1:C:557:ASN:HA	1.62	0.43
1:D:114:ASN:N	1:D:117:ASN:ND2	2.57	0.43
1:D:173:GLU:N	1:D:173:GLU:CD	2.72	0.43
1:D:246:VAL:C	1:D:247:TYR:CD2	2.92	0.43
1:D:333:TYR:O	1:D:362:MET:HA	2.18	0.43
1:E:93:GLU:CB	1:E:140:ASP:OD1	2.66	0.43
1:E:283:GLU:C	1:E:285:GLY:N	2.66	0.43
1:E:417:LEU:CD1	1:E:458:ILE:HG21	2.47	0.43
1:F:64:ARG:HD3	1:F:64:ARG:N	2.28	0.43
1:F:170:GLU:OE1	1:F:287:GLU:C	2.30	0.43
1:F:277:PRO:HA	1:F:282:VAL:HG22	2.00	0.43
1:F:398:PHE:HE1	1:F:438:SER:N	2.17	0.43
2:G:18:LEU:CB	2:G:74:MET:CE	2.96	0.43
2:G:71:VAL:CG1	2:H:98:GLY:CA	2.88	0.43
2:H:106:LEU:HA	2:H:106:LEU:HD13	1.80	0.43
2:I:106:LEU:HD13	2:I:106:LEU:HA	1.79	0.43
2:K:63:PHE:C	2:L:96:SER:HB3	2.33	0.43
2:K:127:GLU:O	2:L:8:THR:CB	2.66	0.43
1:A:36:PHE:CZ	1:A:419:GLY:CA	2.87	0.43
1:A:90:MET:HB2	1:A:326:LYS:HG2	2.00	0.43
1:A:170:GLU:CD	1:A:287:GLU:CA	2.47	0.43
1:A:362:MET:HE2	1:A:364:ALA:HB2	1.96	0.43
1:A:413:VAL:HG21	1:A:460:ILE:HD11	2.00	0.43
1:A:504:LEU:HB2	1:A:578:LEU:HD12	2.00	0.43
1:B:270:LEU:CD1	1:B:270:LEU:C	2.82	0.43
1:C:137:ILE:HD12	1:C:141:ASP:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:137:ILE:HG22	1:D:143:PHE:HD1	1.82	0.43
1:D:150:ILE:HD13	1:D:154:PHE:CE2	2.43	0.43
1:D:181:LEU:HD23	1:D:194:ASP:CG	2.39	0.43
1:D:526:LYS:HE3	1:D:546:PRO:CB	2.48	0.43
1:E:47:PRO:HG3	1:E:93:GLU:CD	2.36	0.43
1:F:39:ILE:CB	1:F:326:LYS:HZ3	2.27	0.43
1:F:143:PHE:HE2	1:F:183:LEU:HD13	1.84	0.43
2:G:127:GLU:O	2:H:8:THR:CB	2.66	0.43
2:H:92:LEU:HB2	2:H:104:VAL:HG23	2.01	0.43
2:H:119:LEU:O	2:I:33:VAL:HG11	2.19	0.43
2:I:116:ILE:CA	2:I:119:LEU:HD13	2.47	0.43
2:J:17:PHE:HA	2:J:74:MET:HE1	2.01	0.43
2:K:18:LEU:CB	2:K:74:MET:CE	2.96	0.43
2:K:88:LEU:HD23	2:K:89:GLN:N	2.30	0.43
1:A:143:PHE:HE2	1:A:183:LEU:HD13	1.83	0.43
1:A:283:GLU:CA	1:A:287:GLU:HB3	2.38	0.43
1:B:44:GLY:C	1:B:189:GLU:OE1	2.52	0.43
1:C:39:ILE:CD1	1:C:327:PHE:CD1	3.01	0.43
1:C:79:ASN:CB	1:C:433:LYS:HD3	2.45	0.43
1:C:143:PHE:HE2	1:C:183:LEU:HD13	1.84	0.43
1:C:421:ALA:C	1:C:423:GLY:N	2.72	0.43
1:D:47:PRO:HG3	1:D:93:GLU:CD	2.36	0.43
1:D:55:ASN:HB2	1:D:58:GLN:CB	2.49	0.43
1:D:90:MET:HB2	1:D:326:LYS:HG2	2.01	0.43
1:D:497:ASN:HD21	1:D:574:ILE:HG21	1.84	0.43
1:D:504:LEU:HB2	1:D:578:LEU:HD12	2.00	0.43
1:D:560:ARG:CB	1:D:579:VAL:HG12	2.48	0.43
1:E:79:ASN:HA	1:E:82:TYR:CD2	2.53	0.43
1:E:398:PHE:HE1	1:E:438:SER:N	2.17	0.43
1:F:173:GLU:CD	1:F:173:GLU:N	2.72	0.43
2:J:142:LYS:O	2:J:143:LEU:HD23	2.17	0.43
1:A:47:PRO:HG3	1:A:111:ILE:HA	1.73	0.43
1:A:137:ILE:HD12	1:A:141:ASP:HA	2.00	0.43
1:B:66:GLY:N	1:B:74:LEU:HD22	2.33	0.43
1:B:114:ASN:N	1:B:117:ASN:ND2	2.57	0.43
1:C:79:ASN:HA	1:C:82:TYR:CD2	2.53	0.43
1:C:526:LYS:HE3	1:C:546:PRO:CB	2.49	0.43
1:C:541:GLU:CA	1:C:568:ILE:HG13	2.49	0.43
1:E:39:ILE:CD1	1:E:327:PHE:CD1	3.01	0.43
1:F:333:TYR:O	1:F:362:MET:HA	2.18	0.43
2:K:127:GLU:CA	2:L:8:THR:CG2	2.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:TYR:OH	1:A:62:LEU:CD1	2.66	0.43
1:A:53:LEU:HD21	1:A:63:PHE:CE2	2.37	0.43
1:A:55:ASN:HB2	1:A:58:GLN:CB	2.49	0.43
1:A:91:ARG:C	1:A:112:TYR:OH	2.58	0.43
1:A:367:GLY:HA2	1:A:393:ALA:O	2.19	0.43
1:A:526:LYS:HE3	1:A:546:PRO:CG	2.49	0.43
1:B:449:LEU:HA	1:B:452:LEU:CG	2.48	0.43
1:B:449:LEU:HA	1:B:452:LEU:CD2	2.49	0.43
1:C:173:GLU:N	1:C:173:GLU:CD	2.72	0.43
1:C:181:LEU:HD23	1:C:194:ASP:CG	2.39	0.43
1:C:397:THR:HG22	1:C:398:PHE:N	2.33	0.43
1:C:413:VAL:HG21	1:C:460:ILE:HD11	2.00	0.43
1:C:579:VAL:HG23	1:C:579:VAL:O	2.18	0.43
1:D:173:GLU:O	1:D:174:GLU:C	2.54	0.43
1:E:66:GLY:N	1:E:74:LEU:HD22	2.33	0.43
1:E:132:LEU:HD12	1:E:149:ASN:H	1.82	0.43
1:E:137:ILE:HD12	1:E:141:ASP:HA	2.00	0.43
1:F:91:ARG:C	1:F:112:TYR:OH	2.58	0.43
1:F:367:GLY:N	1:F:393:ALA:HB3	2.33	0.43
1:F:377:LEU:O	1:F:381:GLN:HG2	2.19	0.43
2:G:119:LEU:O	2:H:33:VAL:HG11	2.19	0.43
2:I:119:LEU:O	2:J:33:VAL:HG11	2.19	0.43
1:A:333:TYR:O	1:A:362:MET:HA	2.18	0.42
1:A:449:LEU:HA	1:A:452:LEU:CD2	2.49	0.42
1:B:367:GLY:HA2	1:B:393:ALA:O	2.19	0.42
1:D:33:GLU:O	1:D:35:VAL:N	2.51	0.42
1:D:39:ILE:CD1	1:D:327:PHE:CG	2.96	0.42
1:D:541:GLU:CA	1:D:568:ILE:HG13	2.49	0.42
1:E:526:LYS:HE3	1:E:546:PRO:CB	2.49	0.42
1:F:79:ASN:HA	1:F:82:TYR:CD2	2.53	0.42
1:F:123:LEU:O	1:F:126:ASN:HB3	2.19	0.42
1:F:501:VAL:HA	1:F:578:LEU:HD11	2.01	0.42
1:F:541:GLU:CA	1:F:568:ILE:HG13	2.49	0.42
2:G:23:MET:O	2:G:70:PHE:C	2.54	0.42
2:I:58:THR:CG2	2:I:59:GLY:N	2.77	0.42
2:K:17:PHE:HA	2:K:74:MET:HE2	2.00	0.42
2:K:23:MET:SD	2:K:77:TYR:HD2	2.42	0.42
1:A:90:MET:HB3	1:A:326:LYS:HG3	2.01	0.42
1:A:132:LEU:HD21	1:A:148:ASP:HB3	1.38	0.42
1:A:541:GLU:CA	1:A:568:ILE:HG13	2.49	0.42
1:B:55:ASN:CB	1:B:58:GLN:HG2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:MET:HB3	1:B:326:LYS:HG3	2.01	0.42
1:B:247:TYR:CD2	1:B:247:TYR:N	2.81	0.42
1:B:261:TYR:CD1	1:B:261:TYR:N	2.84	0.42
1:C:46:GLU:HA	1:C:191:LYS:HD2	1.18	0.42
1:C:365:ILE:HA	1:C:391:LEU:O	2.20	0.42
1:D:79:ASN:HA	1:D:82:TYR:CD2	2.53	0.42
1:E:55:ASN:HB2	1:E:58:GLN:CB	2.49	0.42
1:E:91:ARG:C	1:E:112:TYR:OH	2.58	0.42
1:E:518:ILE:HG13	1:E:521:SER:N	2.32	0.42
1:F:135:ARG:HH11	1:F:135:ARG:HD3	1.39	0.42
1:F:137:ILE:HD12	1:F:141:ASP:HA	2.00	0.42
1:F:367:GLY:HA2	1:F:393:ALA:O	2.19	0.42
1:F:449:LEU:HA	1:F:452:LEU:CD2	2.49	0.42
2:I:92:LEU:HB2	2:I:104:VAL:HG23	2.01	0.42
2:J:68:SER:N	2:K:99:ARG:CZ	2.79	0.42
2:K:18:LEU:CA	2:K:74:MET:HE1	2.28	0.42
1:A:560:ARG:CB	1:A:579:VAL:HG12	2.48	0.42
1:B:278:SER:O	1:B:282:VAL:HG23	2.20	0.42
1:B:526:LYS:HE3	1:B:546:PRO:CG	2.49	0.42
1:C:90:MET:HB3	1:C:326:LYS:HG3	2.01	0.42
1:C:377:LEU:O	1:C:381:GLN:HG2	2.19	0.42
1:C:449:LEU:HA	1:C:452:LEU:CD2	2.49	0.42
1:D:36:PHE:CZ	1:D:419:GLY:CA	2.87	0.42
1:D:106:LYS:HZ1	1:D:146:VAL:HG11	1.84	0.42
1:D:123:LEU:O	1:D:126:ASN:HB3	2.19	0.42
1:D:194:ASP:OD1	1:D:194:ASP:C	2.58	0.42
1:D:377:LEU:O	1:D:381:GLN:HG2	2.19	0.42
1:E:72:ILE:O	1:E:76:TRP:HB2	2.20	0.42
1:E:154:PHE:CE2	1:E:199:ALA:HB1	2.46	0.42
1:E:374:LYS:O	1:E:375:GLU:C	2.58	0.42
1:E:377:LEU:O	1:E:381:GLN:HG2	2.19	0.42
1:E:462:PHE:HD2	1:E:467:THR:N	2.13	0.42
2:H:68:SER:N	2:I:99:ARG:CZ	2.79	0.42
2:J:116:ILE:CA	2:J:119:LEU:HD13	2.47	0.42
1:A:70:ASP:O	1:A:71:ALA:C	2.58	0.42
1:B:338:LEU:HD13	1:B:367:GLY:HA3	1.61	0.42
1:C:55:ASN:HB2	1:C:58:GLN:CB	2.49	0.42
1:C:91:ARG:C	1:C:112:TYR:OH	2.58	0.42
1:C:150:ILE:HD13	1:C:154:PHE:CE2	2.43	0.42
1:C:172:ASP:HA	1:C:173:GLU:HA	1.73	0.42
1:D:91:ARG:C	1:D:112:TYR:OH	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:270:LEU:HB2	1:D:274:GLY:CA	2.50	0.42
1:E:270:LEU:HB2	1:E:274:GLY:CA	2.50	0.42
1:F:70:ASP:O	1:F:71:ALA:C	2.58	0.42
1:F:194:ASP:OD1	1:F:194:ASP:C	2.58	0.42
1:F:350:SER:O	1:F:351:PHE:HD1	2.03	0.42
1:F:526:LYS:HE3	1:F:546:PRO:CB	2.49	0.42
1:F:550:VAL:CG1	1:F:555:GLU:O	2.56	0.42
2:H:9:ILE:HG23	2:H:31:ALA:HB3	2.02	0.42
1:A:254:ASP:O	1:A:255:LEU:CB	2.56	0.42
1:A:350:SER:O	1:A:351:PHE:HD1	2.03	0.42
1:B:70:ASP:O	1:B:71:ALA:C	2.58	0.42
1:B:130:ASP:C	1:B:130:ASP:OD1	2.52	0.42
1:B:333:TYR:O	1:B:362:MET:HA	2.18	0.42
1:B:362:MET:HE2	1:B:364:ALA:HB2	1.95	0.42
1:B:377:LEU:O	1:B:381:GLN:HG2	2.19	0.42
1:B:528:PHE:HE1	2:I:107:TYR:HB2	1.84	0.42
1:C:77:GLY:O	1:C:78:SER:C	2.57	0.42
1:C:350:SER:O	1:C:351:PHE:HD1	2.03	0.42
1:C:526:LYS:HE3	1:C:546:PRO:CG	2.49	0.42
1:D:261:TYR:CD1	1:D:261:TYR:N	2.84	0.42
1:D:398:PHE:HE1	1:D:438:SER:N	2.17	0.42
1:E:355:ARG:HB2	1:E:361:PRO:HD2	1.95	0.42
1:F:55:ASN:HB2	1:F:58:GLN:CB	2.49	0.42
1:F:110:LYS:HG2	1:F:143:PHE:CG	2.54	0.42
1:F:271:ASN:C	1:F:273:GLU:N	2.68	0.42
1:F:327:PHE:HD2	1:F:351:PHE:HE2	1.50	0.42
2:G:33:VAL:HG11	2:L:119:LEU:O	2.19	0.42
2:J:119:LEU:O	2:K:33:VAL:HG11	2.19	0.42
1:A:46:GLU:HA	1:A:191:LYS:HD2	1.18	0.42
1:A:72:ILE:O	1:A:76:TRP:HB2	2.19	0.42
1:A:123:LEU:O	1:A:126:ASN:HB3	2.19	0.42
1:A:452:LEU:HB2	1:A:457:ILE:HG23	1.95	0.42
1:B:55:ASN:HB2	1:B:58:GLN:CB	2.49	0.42
1:B:397:THR:HG22	1:B:398:PHE:N	2.33	0.42
1:C:524:ILE:CG1	2:J:107:TYR:CZ	2.85	0.42
1:D:77:GLY:O	1:D:78:SER:C	2.57	0.42
1:D:90:MET:HB3	1:D:326:LYS:HG3	2.01	0.42
1:D:137:ILE:HD12	1:D:141:ASP:HA	2.00	0.42
1:D:285:GLY:C	1:D:287:GLU:N	2.69	0.42
1:D:327:PHE:CE2	1:D:351:PHE:CB	2.85	0.42
1:D:338:LEU:HD12	1:D:414:ALA:HB2	0.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:365:ILE:HA	1:D:391:LEU:O	2.20	0.42
1:D:387:PRO:HD2	1:D:390:SER:HB3	1.91	0.42
1:E:110:LYS:HG2	1:E:143:PHE:CG	2.54	0.42
1:E:501:VAL:CG1	1:E:578:LEU:CD2	2.74	0.42
1:F:39:ILE:CD1	1:F:327:PHE:CD1	3.01	0.42
1:F:77:GLY:O	1:F:78:SER:C	2.57	0.42
2:I:23:MET:SD	2:I:77:TYR:HD2	2.43	0.42
2:J:18:LEU:CB	2:J:74:MET:CE	2.96	0.42
2:L:23:MET:SD	2:L:77:TYR:HD2	2.43	0.42
1:A:93:GLU:CG	1:A:112:TYR:CZ	3.03	0.42
1:A:110:LYS:HG2	1:A:143:PHE:CG	2.54	0.42
1:B:93:GLU:CG	1:B:112:TYR:CZ	3.03	0.42
1:B:194:ASP:OD1	1:B:194:ASP:C	2.58	0.42
1:B:421:ALA:C	1:B:423:GLY:N	2.72	0.42
1:B:462:PHE:CD2	1:B:467:THR:N	2.74	0.42
1:C:72:ILE:O	1:C:76:TRP:HB2	2.19	0.42
1:C:90:MET:HB2	1:C:326:LYS:HG2	2.00	0.42
1:C:110:LYS:HG2	1:C:143:PHE:CG	2.54	0.42
1:C:123:LEU:O	1:C:126:ASN:HB3	2.19	0.42
1:C:278:SER:O	1:C:282:VAL:HG23	2.19	0.42
1:C:338:LEU:CA	1:C:412:MET:CE	2.98	0.42
1:C:452:LEU:HB2	1:C:457:ILE:HG23	1.95	0.42
1:D:70:ASP:O	1:D:71:ALA:C	2.58	0.42
1:E:333:TYR:O	1:E:362:MET:HA	2.18	0.42
1:E:350:SER:O	1:E:351:PHE:HD1	2.03	0.42
1:E:365:ILE:HA	1:E:391:LEU:O	2.20	0.42
1:E:501:VAL:HA	1:E:578:LEU:HD11	2.01	0.42
1:F:518:ILE:HG13	1:F:521:SER:N	2.32	0.42
2:I:69:LYS:HE3	2:J:139:VAL:O	2.20	0.42
2:J:23:MET:SD	2:J:77:TYR:HD2	2.42	0.42
2:K:18:LEU:CD2	2:K:77:TYR:CE1	3.03	0.42
2:K:25:HIS:N	2:K:71:VAL:CG1	2.76	0.42
1:A:32:SER:OG	1:A:426:ILE:CA	2.68	0.42
1:A:111:ILE:HD12	1:A:112:TYR:CD1	2.54	0.42
1:A:365:ILE:HA	1:A:391:LEU:O	2.20	0.42
1:B:153:ILE:H	1:B:153:ILE:HG12	1.55	0.42
1:B:250:ALA:O	1:B:252:PHE:CD1	2.73	0.42
1:B:338:LEU:HG	1:B:366:VAL:CA	2.50	0.42
1:B:541:GLU:CA	1:B:568:ILE:HG13	2.49	0.42
1:C:70:ASP:O	1:C:71:ALA:C	2.58	0.42
1:C:283:GLU:C	1:C:285:GLY:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:LEU:CD1	1:C:458:ILE:HG21	2.47	0.42
1:D:51:TYR:OH	1:D:62:LEU:CD1	2.66	0.42
1:D:143:PHE:HE2	1:D:183:LEU:HD13	1.84	0.42
1:D:367:GLY:HA2	1:D:393:ALA:O	2.19	0.42
1:D:417:LEU:CD1	1:D:458:ILE:HG21	2.47	0.42
1:D:528:PHE:CE1	2:K:107:TYR:CG	3.04	0.42
1:E:111:ILE:HG12	1:E:191:LYS:HD2	2.02	0.42
1:E:338:LEU:HG	1:E:366:VAL:CA	2.50	0.42
1:E:399:VAL:HG23	1:E:411:TYR:CE1	2.52	0.42
1:E:524:ILE:HG12	2:L:107:TYR:OH	2.19	0.42
1:F:111:ILE:HG12	1:F:191:LYS:HD2	2.02	0.42
1:F:449:LEU:HA	1:F:452:LEU:CG	2.48	0.42
2:G:112:ASP:O	2:G:115:LYS:HB2	2.20	0.42
2:J:18:LEU:CD2	2:J:77:TYR:CE1	3.03	0.42
2:K:58:THR:CG2	2:K:59:GLY:N	2.77	0.42
2:K:119:LEU:O	2:L:33:VAL:HG11	2.19	0.42
1:A:270:LEU:HB2	1:A:274:GLY:CA	2.50	0.42
1:A:338:LEU:HG	1:A:366:VAL:CA	2.50	0.42
1:A:377:LEU:O	1:A:381:GLN:HG2	2.19	0.42
1:A:501:VAL:HA	1:A:578:LEU:HD11	2.01	0.42
1:B:72:ILE:O	1:B:76:TRP:HB2	2.20	0.42
1:B:90:MET:HB2	1:B:326:LYS:HG2	2.00	0.42
1:B:93:GLU:CB	1:B:140:ASP:OD1	2.66	0.42
1:B:110:LYS:HG2	1:B:143:PHE:CG	2.54	0.42
1:B:283:GLU:C	1:B:285:GLY:H	2.23	0.42
1:B:365:ILE:HA	1:B:391:LEU:O	2.19	0.42
1:B:417:LEU:CD1	1:B:458:ILE:HG21	2.47	0.42
1:C:93:GLU:CG	1:C:112:TYR:CZ	3.03	0.42
1:C:250:ALA:O	1:C:252:PHE:CD1	2.73	0.42
1:C:270:LEU:HB2	1:C:274:GLY:CA	2.50	0.42
1:C:462:PHE:CD2	1:C:467:THR:N	2.74	0.42
1:D:110:LYS:HG2	1:D:143:PHE:CG	2.54	0.42
1:D:374:LYS:O	1:D:375:GLU:C	2.58	0.42
1:D:449:LEU:HA	1:D:452:LEU:CD2	2.49	0.42
1:E:143:PHE:HE2	1:E:183:LEU:HD13	1.83	0.42
1:E:170:GLU:OE1	1:E:287:GLU:C	2.30	0.42
1:F:253:GLY:O	1:F:256:GLU:HB3	2.20	0.42
2:G:8:THR:CG2	2:L:127:GLU:CA	2.89	0.42
2:G:33:VAL:HB	2:L:119:LEU:C	2.15	0.42
2:H:112:ASP:O	2:H:115:LYS:HB2	2.20	0.42
2:H:116:ILE:CA	2:H:119:LEU:HD13	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:69:LYS:HE3	2:K:139:VAL:O	2.20	0.42
2:L:112:ASP:O	2:L:115:LYS:HB2	2.20	0.42
2:L:116:ILE:CA	2:L:119:LEU:HD13	2.47	0.42
1:A:47:PRO:HG3	1:A:93:GLU:CD	2.36	0.42
1:A:135:ARG:O	1:A:136:VAL:HG23	2.20	0.42
1:A:277:PRO:HA	1:A:282:VAL:HG22	2.00	0.42
1:A:398:PHE:HE1	1:A:438:SER:N	2.17	0.42
1:B:111:ILE:HD12	1:B:112:TYR:CD1	2.55	0.42
1:B:253:GLY:O	1:B:256:GLU:HB3	2.20	0.42
1:B:270:LEU:HB2	1:B:274:GLY:CA	2.50	0.42
1:B:350:SER:O	1:B:351:PHE:HD1	2.03	0.42
1:B:398:PHE:HE1	1:B:438:SER:N	2.17	0.42
1:C:367:GLY:N	1:C:393:ALA:HB3	2.33	0.42
1:D:72:ILE:O	1:D:76:TRP:HB2	2.20	0.42
1:D:111:ILE:HG12	1:D:191:LYS:HD2	2.01	0.42
1:D:501:VAL:CG1	1:D:578:LEU:CD2	2.74	0.42
1:E:541:GLU:CA	1:E:568:ILE:HG13	2.49	0.42
1:F:47:PRO:HG3	1:F:93:GLU:CD	2.36	0.42
2:I:9:ILE:HG23	2:I:31:ALA:HB3	2.02	0.42
1:A:266:SER:O	1:A:267:PHE:C	2.55	0.41
1:C:55:ASN:CG	1:C:58:GLN:HG3	2.40	0.41
1:D:45:GLY:CA	1:D:111:ILE:HD12	2.32	0.41
1:D:64:ARG:HD3	1:D:64:ARG:N	2.28	0.41
1:E:106:LYS:HD3	1:E:106:LYS:HA	1.94	0.41
1:E:123:LEU:O	1:E:126:ASN:HB3	2.19	0.41
1:E:278:SER:O	1:E:282:VAL:HG23	2.19	0.41
1:F:47:PRO:HB3	1:F:93:GLU:HG3	2.02	0.41
1:F:51:TYR:OH	1:F:62:LEU:CD1	2.66	0.41
1:F:52:GLU:CG	1:F:88:LEU:HD21	2.37	0.41
1:F:93:GLU:CG	1:F:112:TYR:CZ	3.03	0.41
1:F:173:GLU:O	1:F:174:GLU:C	2.54	0.41
1:F:278:SER:O	1:F:282:VAL:HG23	2.19	0.41
2:G:9:ILE:HG23	2:G:31:ALA:HB3	2.02	0.41
2:H:16:LEU:HD21	2:H:74:MET:CB	2.50	0.41
1:A:107:ILE:CG1	1:A:193:TYR:CD2	3.03	0.41
1:A:114:ASN:N	1:A:117:ASN:ND2	2.57	0.41
1:A:253:GLY:O	1:A:256:GLU:HB3	2.20	0.41
1:B:123:LEU:O	1:B:126:ASN:HB3	2.19	0.41
1:B:366:VAL:O	1:B:393:ALA:HB2	2.14	0.41
1:C:111:ILE:HD12	1:C:112:TYR:CD1	2.55	0.41
1:D:32:SER:OG	1:D:426:ILE:CA	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:283:GLU:C	1:D:285:GLY:H	2.23	0.41
1:D:338:LEU:HD13	1:D:367:GLY:HA3	1.61	0.41
1:E:51:TYR:OH	1:E:62:LEU:CD1	2.66	0.41
1:E:462:PHE:CD2	1:E:467:THR:N	2.74	0.41
1:E:524:ILE:CG1	2:L:107:TYR:CE2	2.93	0.41
1:F:32:SER:OG	1:F:426:ILE:CA	2.68	0.41
1:F:106:LYS:HD3	1:F:106:LYS:HA	1.94	0.41
1:F:135:ARG:O	1:F:136:VAL:HG23	2.20	0.41
1:F:338:LEU:HG	1:F:366:VAL:CA	2.50	0.41
2:I:17:PHE:N	2:I:17:PHE:HD1	2.14	0.41
2:I:18:LEU:CD2	2:I:77:TYR:CE1	3.03	0.41
1:A:111:ILE:HG12	1:A:191:LYS:HD2	2.01	0.41
1:A:278:SER:O	1:A:282:VAL:HG23	2.20	0.41
1:A:497:ASN:HD21	1:A:574:ILE:HG21	1.84	0.41
1:B:32:SER:OG	1:B:426:ILE:CA	2.68	0.41
1:B:39:ILE:CD1	1:B:327:PHE:CG	2.96	0.41
1:B:285:GLY:C	1:B:287:GLU:N	2.69	0.41
1:B:374:LYS:O	1:B:375:GLU:C	2.58	0.41
1:C:338:LEU:HG	1:C:366:VAL:CA	2.50	0.41
1:D:252:PHE:CD1	1:D:252:PHE:N	2.88	0.41
1:D:338:LEU:HG	1:D:366:VAL:CA	2.50	0.41
1:E:46:GLU:HA	1:E:191:LYS:HD2	1.18	0.41
1:E:449:LEU:HA	1:E:452:LEU:CD2	2.49	0.41
1:E:497:ASN:HD21	1:E:574:ILE:HG21	1.84	0.41
1:E:557:ASN:HD22	1:E:557:ASN:HA	1.62	0.41
2:H:58:THR:CG2	2:H:59:GLY:H	2.32	0.41
2:I:112:ASP:O	2:I:115:LYS:HB2	2.20	0.41
2:K:9:ILE:HG23	2:K:31:ALA:HB3	2.02	0.41
2:L:24:ALA:HA	2:L:71:VAL:HG22	2.03	0.41
1:A:170:GLU:OE1	1:A:287:GLU:C	2.30	0.41
1:A:283:GLU:C	1:A:285:GLY:H	2.23	0.41
1:A:370:PHE:CZ	1:A:448:ASP:CG	2.90	0.41
1:B:47:PRO:HG3	1:B:111:ILE:HA	1.73	0.41
1:C:135:ARG:O	1:C:136:VAL:HG23	2.20	0.41
1:C:526:LYS:HE3	1:C:546:PRO:HB2	2.03	0.41
1:D:431:THR:C	1:D:434:PRO:HD2	2.40	0.41
1:D:501:VAL:HA	1:D:578:LEU:HD11	2.01	0.41
1:D:528:PHE:HZ	2:K:107:TYR:CG	2.37	0.41
1:E:107:ILE:CG1	1:E:193:TYR:CD2	3.03	0.41
1:E:250:ALA:O	1:E:252:PHE:CD1	2.73	0.41
1:F:90:MET:HB3	1:F:326:LYS:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:16:LEU:HD21	2:G:74:MET:CB	2.50	0.41
2:I:24:ALA:HA	2:I:71:VAL:HG22	2.03	0.41
1:A:55:ASN:CB	1:A:58:GLN:HG2	2.47	0.41
1:A:194:ASP:OD1	1:A:194:ASP:C	2.58	0.41
1:B:107:ILE:CG1	1:B:193:TYR:CD2	3.03	0.41
1:D:111:ILE:HD12	1:D:112:TYR:CD1	2.54	0.41
1:D:253:GLY:O	1:D:256:GLU:HB3	2.20	0.41
1:D:350:SER:O	1:D:351:PHE:HD1	2.03	0.41
1:E:90:MET:HB3	1:E:326:LYS:HG3	2.01	0.41
1:E:194:ASP:OD1	1:E:194:ASP:C	2.58	0.41
1:E:253:GLY:O	1:E:256:GLU:HB3	2.20	0.41
1:F:72:ILE:O	1:F:76:TRP:HB2	2.20	0.41
1:F:285:GLY:C	1:F:287:GLU:N	2.69	0.41
2:G:23:MET:SD	2:G:77:TYR:HD2	2.42	0.41
2:L:18:LEU:CD2	2:L:77:TYR:CE1	3.03	0.41
1:B:264:ILE:CG1	1:B:265:VAL:N	2.84	0.41
1:C:107:ILE:CG1	1:C:193:TYR:CD2	3.03	0.41
1:C:132:LEU:HD21	1:C:148:ASP:HB3	1.38	0.41
1:D:47:PRO:HG3	1:D:111:ILE:HA	1.73	0.41
1:D:93:GLU:CG	1:D:112:TYR:CZ	3.03	0.41
1:D:134:LEU:HD12	1:D:145:GLU:O	2.20	0.41
1:D:135:ARG:O	1:D:136:VAL:HG23	2.20	0.41
1:D:190:VAL:HG23	1:D:191:LYS:HG3	2.02	0.41
1:D:278:SER:O	1:D:282:VAL:HG23	2.19	0.41
1:D:320:TRP:CH2	1:D:347:GLU:CG	2.99	0.41
1:D:550:VAL:HG22	1:D:551:GLN:N	2.36	0.41
1:E:52:GLU:CG	1:E:88:LEU:HD21	2.37	0.41
1:E:70:ASP:O	1:E:71:ALA:C	2.58	0.41
1:E:77:GLY:O	1:E:78:SER:C	2.57	0.41
1:E:135:ARG:O	1:E:136:VAL:HG23	2.20	0.41
1:E:135:ARG:HH11	1:E:135:ARG:HD3	1.39	0.41
1:E:252:PHE:HD2	1:E:256:GLU:C	2.24	0.41
1:E:524:ILE:CG1	2:L:107:TYR:CZ	2.86	0.41
1:E:540:ASN:C	1:E:541:GLU:HG3	2.21	0.41
1:F:283:GLU:C	1:F:285:GLY:H	2.23	0.41
1:F:365:ILE:HA	1:F:391:LEU:O	2.20	0.41
2:H:24:ALA:HA	2:H:71:VAL:HG22	2.03	0.41
2:I:16:LEU:HD21	2:I:74:MET:CB	2.50	0.41
2:K:112:ASP:O	2:K:115:LYS:HB2	2.20	0.41
1:A:39:ILE:C	1:A:326:LYS:CE	2.89	0.41
1:A:134:LEU:HD13	1:A:143:PHE:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:LYS:O	1:A:375:GLU:C	2.58	0.41
1:A:449:LEU:HA	1:A:452:LEU:CG	2.48	0.41
1:B:39:ILE:C	1:B:326:LYS:CE	2.89	0.41
1:B:501:VAL:HA	1:B:578:LEU:HD11	2.01	0.41
1:B:560:ARG:CB	1:B:579:VAL:HG12	2.48	0.41
1:C:253:GLY:O	1:C:256:GLU:HB3	2.20	0.41
1:C:370:PHE:CZ	1:C:448:ASP:CG	2.90	0.41
1:D:107:ILE:CG1	1:D:193:TYR:CD2	3.03	0.41
1:E:93:GLU:CG	1:E:112:TYR:CZ	3.03	0.41
1:E:111:ILE:HD12	1:E:112:TYR:CD1	2.55	0.41
1:E:283:GLU:C	1:E:285:GLY:H	2.23	0.41
1:F:134:LEU:HD13	1:F:143:PHE:CG	2.56	0.41
1:F:526:LYS:HE3	1:F:546:PRO:HB2	2.03	0.41
2:J:9:ILE:HG23	2:J:31:ALA:HB3	2.02	0.41
2:J:112:ASP:O	2:J:115:LYS:HB2	2.20	0.41
1:B:76:TRP:HA	1:B:415:VAL:HG11	2.03	0.41
1:B:134:LEU:HD12	1:B:145:GLU:O	2.20	0.41
1:C:92:ILE:HG12	1:C:326:LYS:HZ2	1.69	0.41
1:C:134:LEU:HD12	1:C:145:GLU:O	2.20	0.41
1:C:266:SER:O	1:C:267:PHE:C	2.55	0.41
1:D:250:ALA:O	1:D:252:PHE:CD1	2.73	0.41
1:D:526:LYS:HE3	1:D:546:PRO:HB2	2.03	0.41
1:E:75:ALA:O	1:E:76:TRP:C	2.59	0.41
1:E:76:TRP:HA	1:E:415:VAL:HG11	2.03	0.41
1:E:134:LEU:HD12	1:E:145:GLU:O	2.20	0.41
1:F:111:ILE:HD12	1:F:112:TYR:CD1	2.55	0.41
1:F:374:LYS:O	1:F:375:GLU:C	2.58	0.41
1:F:497:ASN:HD21	1:F:574:ILE:HG21	1.84	0.41
2:H:18:LEU:CD2	2:H:77:TYR:CE1	3.03	0.41
2:K:130:VAL:HA	2:K:131:PRO:HD3	1.79	0.41
2:L:58:THR:HG23	2:L:133:THR:HG22	2.03	0.41
1:A:52:GLU:CG	1:A:88:LEU:HD21	2.37	0.41
1:A:53:LEU:CD2	1:A:62:LEU:HD12	2.51	0.41
1:A:64:ARG:HD3	1:A:64:ARG:N	2.28	0.41
1:A:250:ALA:O	1:A:252:PHE:CD1	2.73	0.41
1:A:431:THR:C	1:A:434:PRO:HD3	2.42	0.41
1:A:550:VAL:CG1	1:A:555:GLU:O	2.56	0.41
1:B:135:ARG:O	1:B:136:VAL:HG23	2.20	0.41
1:B:252:PHE:HD2	1:B:256:GLU:C	2.24	0.41
1:B:526:LYS:CE	1:B:546:PRO:HG2	2.51	0.41
1:C:111:ILE:HG12	1:C:191:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:LEU:HD13	1:C:143:PHE:CG	2.56	0.41
1:C:190:VAL:HG23	1:C:191:LYS:HG3	2.02	0.41
1:D:132:LEU:HD21	1:D:148:ASP:HB3	1.38	0.41
1:D:264:ILE:CG1	1:D:265:VAL:N	2.84	0.41
1:E:338:LEU:CA	1:E:412:MET:CE	2.98	0.41
1:E:431:THR:C	1:E:434:PRO:HD2	2.40	0.41
1:F:39:ILE:CA	1:F:326:LYS:CE	2.95	0.41
1:F:53:LEU:CD2	1:F:62:LEU:HD12	2.51	0.41
1:F:134:LEU:HD12	1:F:145:GLU:O	2.20	0.41
1:F:190:VAL:HG23	1:F:191:LYS:HG3	2.02	0.41
1:F:338:LEU:CB	1:F:412:MET:CE	2.96	0.41
1:F:338:LEU:HB3	1:F:412:MET:HE3	2.03	0.41
1:F:462:PHE:CD2	1:F:467:THR:N	2.74	0.41
2:H:69:LYS:HE3	2:I:139:VAL:O	2.20	0.41
2:H:127:GLU:O	2:I:8:THR:CB	2.66	0.41
2:I:23:MET:O	2:I:24:ALA:CB	2.69	0.41
2:I:130:VAL:HA	2:I:131:PRO:HD3	1.79	0.41
2:J:58:THR:CG2	2:J:59:GLY:H	2.32	0.41
2:J:75:MET:HA	2:J:78:VAL:HG12	2.03	0.41
2:K:92:LEU:HB2	2:K:104:VAL:HG23	2.01	0.41
1:A:134:LEU:HD12	1:A:145:GLU:O	2.20	0.41
1:B:172:ASP:HA	1:B:173:GLU:HA	1.73	0.41
1:B:431:THR:C	1:B:434:PRO:HD3	2.42	0.41
1:C:387:PRO:HD2	1:C:390:SER:HB2	1.67	0.41
1:C:501:VAL:HA	1:C:578:LEU:HD11	2.01	0.41
1:D:452:LEU:HB2	1:D:457:ILE:HG23	1.95	0.41
1:D:557:ASN:HD22	1:D:557:ASN:HA	1.62	0.41
1:E:134:LEU:HD13	1:E:143:PHE:CG	2.56	0.41
1:F:270:LEU:HB2	1:F:274:GLY:CA	2.50	0.41
1:F:320:TRP:CH2	1:F:347:GLU:CG	2.99	0.41
1:F:370:PHE:CZ	1:F:448:ASP:CG	2.90	0.41
1:F:421:ALA:C	1:F:423:GLY:N	2.72	0.41
2:G:18:LEU:CD2	2:G:77:TYR:CE1	3.03	0.41
2:H:23:MET:SD	2:H:77:TYR:HD2	2.42	0.41
2:H:79:LYS:HB3	2:H:115:LYS:HG3	2.03	0.41
2:I:58:THR:CG2	2:I:59:GLY:H	2.32	0.41
2:J:27:LYS:HB3	2:J:28:THR:H	1.63	0.41
2:L:9:ILE:HG23	2:L:31:ALA:HB3	2.02	0.41
1:A:526:LYS:HE3	1:A:546:PRO:HB2	2.03	0.40
1:A:526:LYS:CE	1:A:546:PRO:HG2	2.51	0.40
1:B:135:ARG:C	1:B:136:VAL:HG23	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:550:VAL:HG22	1:B:551:GLN:N	2.36	0.40
1:C:76:TRP:HA	1:C:415:VAL:HG11	2.03	0.40
1:C:264:ILE:CG1	1:C:265:VAL:N	2.84	0.40
1:C:431:THR:C	1:C:434:PRO:HD3	2.42	0.40
1:D:53:LEU:CD2	1:D:62:LEU:HD12	2.51	0.40
1:D:252:PHE:HD2	1:D:256:GLU:C	2.24	0.40
1:D:370:PHE:CZ	1:D:448:ASP:CG	2.90	0.40
1:D:428:GLU:O	1:D:428:GLU:CG	2.67	0.40
1:E:370:PHE:CZ	1:E:448:ASP:CG	2.90	0.40
1:E:550:VAL:HG22	1:E:551:GLN:N	2.36	0.40
2:G:58:THR:HG23	2:G:133:THR:HG22	2.03	0.40
2:G:96:SER:HB3	2:L:63:PHE:C	2.33	0.40
2:K:58:THR:HG23	2:K:133:THR:HG22	2.03	0.40
2:K:69:LYS:HE3	2:L:139:VAL:O	2.20	0.40
1:A:264:ILE:CG1	1:A:265:VAL:N	2.84	0.40
1:A:283:GLU:C	1:A:285:GLY:N	2.66	0.40
1:B:252:PHE:CD1	1:B:252:PHE:N	2.88	0.40
1:B:465:ASN:O	1:B:466:ARG:HB2	2.22	0.40
1:B:526:LYS:HE3	1:B:546:PRO:HB2	2.03	0.40
1:B:528:PHE:HZ	2:I:107:TYR:CG	2.39	0.40
1:C:106:LYS:HD3	1:C:106:LYS:HA	1.94	0.40
1:C:194:ASP:OD1	1:C:194:ASP:C	2.58	0.40
1:C:449:LEU:HA	1:C:452:LEU:CG	2.48	0.40
1:C:550:VAL:HG22	1:C:551:GLN:N	2.36	0.40
1:D:55:ASN:CG	1:D:58:GLN:HG3	2.40	0.40
1:D:134:LEU:HD13	1:D:143:PHE:CG	2.56	0.40
1:D:137:ILE:HD13	1:D:137:ILE:HG21	1.88	0.40
1:E:264:ILE:CG1	1:E:265:VAL:N	2.84	0.40
1:E:279:ASN:O	1:E:280:VAL:C	2.52	0.40
1:F:107:ILE:CG1	1:F:193:TYR:CD2	3.03	0.40
1:F:250:ALA:O	1:F:252:PHE:CD1	2.73	0.40
1:F:254:ASP:C	1:F:256:GLU:N	2.68	0.40
1:F:550:VAL:HG22	1:F:551:GLN:N	2.36	0.40
2:I:63:PHE:C	2:J:96:SER:HB3	2.33	0.40
2:I:75:MET:HA	2:I:78:VAL:HG12	2.03	0.40
2:J:24:ALA:HA	2:J:71:VAL:HG22	2.03	0.40
2:K:75:MET:HA	2:K:78:VAL:HG12	2.03	0.40
1:A:93:GLU:CB	1:A:140:ASP:OD1	2.66	0.40
1:A:190:VAL:HG23	1:A:191:LYS:HG3	2.02	0.40
1:B:266:SER:O	1:B:267:PHE:C	2.55	0.40
1:B:497:ASN:HD21	1:B:574:ILE:HG21	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:53:LEU:CD2	1:C:62:LEU:HD12	2.51	0.40
1:D:43:GLU:HA	1:D:188:GLN:HE21	1.87	0.40
1:D:47:PRO:HB3	1:D:93:GLU:HG3	2.02	0.40
1:D:75:ALA:O	1:D:76:TRP:C	2.59	0.40
1:D:135:ARG:C	1:D:136:VAL:HG23	2.42	0.40
1:D:526:LYS:HE3	1:D:546:PRO:CG	2.49	0.40
1:E:190:VAL:HG23	1:E:191:LYS:HG3	2.02	0.40
1:F:39:ILE:C	1:F:326:LYS:CE	2.89	0.40
1:F:135:ARG:C	1:F:136:VAL:HG23	2.42	0.40
1:F:283:GLU:CA	1:F:287:GLU:HB3	2.38	0.40
2:G:25:HIS:N	2:G:71:VAL:CG1	2.76	0.40
2:I:79:LYS:HB3	2:I:115:LYS:HG3	2.03	0.40
2:J:15:ARG:HG2	2:J:22:GLU:OE2	2.22	0.40
1:A:135:ARG:C	1:A:136:VAL:HG23	2.42	0.40
1:B:134:LEU:HD13	1:B:143:PHE:CG	2.56	0.40
1:B:355:ARG:CA	1:B:361:PRO:HD2	2.52	0.40
1:C:135:ARG:C	1:C:136:VAL:HG23	2.42	0.40
1:C:252:PHE:HD2	1:C:256:GLU:C	2.24	0.40
1:E:55:ASN:CG	1:E:58:GLN:HG3	2.40	0.40
1:E:355:ARG:CA	1:E:361:PRO:HD2	2.52	0.40
1:E:550:VAL:CG1	1:E:555:GLU:O	2.56	0.40
1:F:34:LYS:NZ	1:F:83:THR:O	2.32	0.40
1:F:75:ALA:O	1:F:76:TRP:C	2.59	0.40
1:F:337:PRO:CD	1:F:365:ILE:H	2.35	0.40
2:G:139:VAL:O	2:L:69:LYS:HE3	2.20	0.40
2:K:15:ARG:HG2	2:K:22:GLU:OE2	2.22	0.40
2:K:79:LYS:HB3	2:K:115:LYS:HG3	2.03	0.40
2:L:16:LEU:HD21	2:L:74:MET:CB	2.50	0.40
1:A:135:ARG:HH11	1:A:135:ARG:HD3	1.39	0.40
1:A:150:ILE:HD13	1:A:154:PHE:CE2	2.43	0.40
1:B:53:LEU:CD2	1:B:62:LEU:HD12	2.51	0.40
1:B:111:ILE:HG12	1:B:191:LYS:HD2	2.02	0.40
1:B:338:LEU:CD2	1:B:366:VAL:HG12	2.40	0.40
1:D:76:TRP:HA	1:D:415:VAL:HG11	2.03	0.40
1:D:106:LYS:HD3	1:D:106:LYS:HA	1.94	0.40
1:E:320:TRP:CH2	1:E:347:GLU:CG	2.99	0.40
1:E:394:ASN:OD1	1:E:457:ILE:CD1	2.70	0.40
1:F:39:ILE:HD12	1:F:327:PHE:HB2	1.78	0.40
1:F:252:PHE:HD2	1:F:256:GLU:C	2.24	0.40
1:F:382:ALA:O	1:F:383:SER:CB	2.70	0.40
2:G:23:MET:O	2:G:24:ALA:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:15:ARG:HG2	2:H:22:GLU:OE2	2.22	0.40
2:H:75:MET:HA	2:H:78:VAL:HG12	2.03	0.40
2:J:92:LEU:HB2	2:J:104:VAL:HG23	2.01	0.40
2:J:127:GLU:O	2:K:8:THR:CB	2.66	0.40
2:L:15:ARG:HG2	2:L:22:GLU:OE2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
1	B	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
1	C	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
1	D	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
1	E	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
1	F	401/587 (68%)	316 (79%)	63 (16%)	22 (6%)	2	19
2	G	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
2	H	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
2	I	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
2	J	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
2	K	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
2	L	88/155 (57%)	72 (82%)	12 (14%)	4 (4%)	2	21
All	All	2934/4452 (66%)	2328 (79%)	450 (15%)	156 (5%)	3	19

All (156) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	79	ASN
1	A	337	PRO
1	A	361	PRO
1	A	409	PRO
1	A	429	SER
1	A	540	ASN
1	B	79	ASN
1	B	337	PRO
1	B	361	PRO
1	B	409	PRO
1	B	429	SER
1	B	540	ASN
1	C	79	ASN
1	C	337	PRO
1	C	361	PRO
1	C	409	PRO
1	C	429	SER
1	C	540	ASN
1	D	79	ASN
1	D	337	PRO
1	D	361	PRO
1	D	409	PRO
1	D	429	SER
1	D	540	ASN
1	E	79	ASN
1	E	337	PRO
1	E	361	PRO
1	E	409	PRO
1	E	429	SER
1	E	540	ASN
1	F	79	ASN
1	F	337	PRO
1	F	361	PRO
1	F	409	PRO
1	F	429	SER
1	F	540	ASN
1	A	80	PRO
1	A	362	MET
1	A	436	ARG
1	A	541	GLU
1	B	80	PRO
1	B	362	MET
1	B	436	ARG

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Mol	Chain	Res	Type
1	B	541	GLU
1	C	80	PRO
1	C	362	MET
1	C	436	ARG
1	C	541	GLU
1	D	80	PRO
1	D	362	MET
1	D	436	ARG
1	D	541	GLU
1	E	80	PRO
1	E	362	MET
1	E	436	ARG
1	E	541	GLU
1	F	80	PRO
1	F	362	MET
1	F	436	ARG
1	F	541	GLU
2	G	13	GLU
2	G	24	ALA
2	H	13	GLU
2	H	24	ALA
2	I	13	GLU
2	I	24	ALA
2	J	13	GLU
2	J	24	ALA
2	K	13	GLU
2	K	24	ALA
2	L	13	GLU
2	L	24	ALA
1	A	34	LYS
1	A	71	ALA
1	A	286	GLU
1	A	425	GLU
1	A	465	ASN
1	A	466	ARG
1	B	34	LYS
1	B	71	ALA
1	B	286	GLU
1	B	425	GLU
1	B	466	ARG
1	C	34	LYS
1	C	71	ALA

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Mol	Chain	Res	Type
1	C	286	GLU
1	C	425	GLU
1	C	465	ASN
1	C	466	ARG
1	D	34	LYS
1	D	71	ALA
1	D	286	GLU
1	D	425	GLU
1	D	466	ARG
1	E	34	LYS
1	E	71	ALA
1	E	286	GLU
1	E	425	GLU
1	E	465	ASN
1	E	466	ARG
1	F	34	LYS
1	F	71	ALA
1	F	286	GLU
1	F	425	GLU
1	F	465	ASN
1	F	466	ARG
2	G	27	LYS
2	H	27	LYS
2	I	27	LYS
2	J	27	LYS
2	K	27	LYS
2	L	27	LYS
1	A	570	SER
1	B	268	GLU
1	B	465	ASN
1	B	570	SER
1	C	570	SER
1	D	268	GLU
1	D	465	ASN
1	D	570	SER
1	E	268	GLU
1	E	570	SER
1	F	570	SER
2	G	142	LYS
2	H	142	LYS
2	I	142	LYS
2	J	142	LYS

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Mol	Chain	Res	Type
2	K	142	LYS
2	L	142	LYS
1	A	110	LYS
1	A	268	GLU
1	B	110	LYS
1	C	110	LYS
1	C	268	GLU
1	D	110	LYS
1	E	110	LYS
1	F	110	LYS
1	F	268	GLU
1	A	524	ILE
1	B	524	ILE
1	C	524	ILE
1	D	524	ILE
1	E	524	ILE
1	F	524	ILE
1	A	433	LYS
1	B	433	LYS
1	C	433	LYS
1	D	433	LYS
1	E	433	LYS
1	F	433	LYS
1	A	423	GLY
1	B	423	GLY
1	C	423	GLY
1	D	423	GLY
1	E	423	GLY
1	F	423	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	363/495 (73%)	358 (99%)	5 (1%)	67 80
1	B	363/495 (73%)	358 (99%)	5 (1%)	67 80

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	C	363/495 (73%)	358 (99%)	5 (1%)	67 80
1	D	363/495 (73%)	358 (99%)	5 (1%)	67 80
1	E	363/495 (73%)	358 (99%)	5 (1%)	67 80
1	F	363/495 (73%)	358 (99%)	5 (1%)	67 80
2	G	84/134 (63%)	73 (87%)	11 (13%)	4 18
2	H	84/134 (63%)	73 (87%)	11 (13%)	4 18
2	I	84/134 (63%)	73 (87%)	11 (13%)	4 18
2	J	84/134 (63%)	73 (87%)	11 (13%)	4 18
2	K	84/134 (63%)	73 (87%)	11 (13%)	4 18
2	L	84/134 (63%)	73 (87%)	11 (13%)	4 18
All	All	2682/3774 (71%)	2586 (96%)	96 (4%)	38 59

All (96) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	ARG
1	A	153	ILE
1	A	322	ASP
1	A	350	SER
1	A	557	ASN
1	B	64	ARG
1	B	153	ILE
1	B	322	ASP
1	B	350	SER
1	B	557	ASN
1	C	64	ARG
1	C	153	ILE
1	C	322	ASP
1	C	350	SER
1	C	557	ASN
1	D	64	ARG
1	D	153	ILE
1	D	322	ASP
1	D	350	SER
1	D	557	ASN
1	E	64	ARG
1	E	153	ILE
1	E	322	ASP

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Mol	Chain	Res	Type
1	E	350	SER
1	E	557	ASN
1	F	64	ARG
1	F	153	ILE
1	F	322	ASP
1	F	350	SER
1	F	557	ASN
2	G	7	ASN
2	G	10	SER
2	G	17	PHE
2	G	33	VAL
2	G	60	THR
2	G	76	ASP
2	G	77	TYR
2	G	103	ARG
2	G	135	GLU
2	G	137	PHE
2	G	143	LEU
2	H	7	ASN
2	H	10	SER
2	H	17	PHE
2	H	33	VAL
2	H	60	THR
2	H	76	ASP
2	H	77	TYR
2	H	103	ARG
2	H	135	GLU
2	H	137	PHE
2	H	143	LEU
2	I	7	ASN
2	I	10	SER
2	I	17	PHE
2	I	33	VAL
2	I	60	THR
2	I	76	ASP
2	I	77	TYR
2	I	103	ARG
2	I	135	GLU
2	I	137	PHE
2	I	143	LEU
2	J	7	ASN
2	J	10	SER

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Mol	Chain	Res	Type
2	J	17	PHE
2	J	33	VAL
2	J	60	THR
2	J	76	ASP
2	J	77	TYR
2	J	103	ARG
2	J	135	GLU
2	J	137	PHE
2	J	143	LEU
2	K	7	ASN
2	K	10	SER
2	K	17	PHE
2	K	33	VAL
2	K	60	THR
2	K	76	ASP
2	K	77	TYR
2	K	103	ARG
2	K	135	GLU
2	K	137	PHE
2	K	143	LEU
2	L	7	ASN
2	L	10	SER
2	L	17	PHE
2	L	33	VAL
2	L	60	THR
2	L	76	ASP
2	L	77	TYR
2	L	103	ARG
2	L	135	GLU
2	L	137	PHE
2	L	143	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (30) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	55	ASN
1	A	81	ASN
1	A	407	HIS
1	A	557	ASN
1	B	55	ASN
1	B	81	ASN
1	B	407	HIS

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Mol	Chain	Res	Type
1	B	557	ASN
1	C	55	ASN
1	C	81	ASN
1	C	407	HIS
1	C	557	ASN
1	D	55	ASN
1	D	81	ASN
1	D	407	HIS
1	D	557	ASN
1	E	55	ASN
1	E	81	ASN
1	E	407	HIS
1	E	557	ASN
1	F	55	ASN
1	F	81	ASN
1	F	407	HIS
1	F	557	ASN
2	G	7	ASN
2	H	7	ASN
2	I	7	ASN
2	J	7	ASN
2	K	7	ASN
2	L	7	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 monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	9
1	B	9
1	C	9
1	D	9
1	E	9
1	F	9

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	427:GLY	C	428:GLU	N	15.07
1	B	427:GLY	C	428:GLU	N	15.07
1	C	427:GLY	C	428:GLU	N	15.07
1	D	427:GLY	C	428:GLU	N	15.07
1	E	427:GLY	C	428:GLU	N	15.07
1	F	427:GLY	C	428:GLU	N	15.07
1	A	369:GLY	C	370:PHE	N	13.63
1	C	369:GLY	C	370:PHE	N	13.63
1	D	369:GLY	C	370:PHE	N	13.63
1	F	369:GLY	C	370:PHE	N	13.63
1	B	369:GLY	C	370:PHE	N	13.62
1	E	369:GLY	C	370:PHE	N	13.62
1	A	327:PHE	C	328:ALA	N	13.22
1	B	327:PHE	C	328:ALA	N	13.22
1	C	327:PHE	C	328:ALA	N	13.22
1	D	327:PHE	C	328:ALA	N	13.22
1	E	327:PHE	C	328:ALA	N	13.22
1	F	327:PHE	C	328:ALA	N	13.22
1	B	339:SER	C	340:SER	N	10.91
1	A	339:SER	C	340:SER	N	10.90
1	C	339:SER	C	340:SER	N	10.90
1	D	339:SER	C	340:SER	N	10.90
1	E	339:SER	C	340:SER	N	10.90
1	F	339:SER	C	340:SER	N	10.90
1	A	445:GLU	C	446:SER	N	8.95

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	445:GLU	C	446:SER	N	8.95
1	C	445:GLU	C	446:SER	N	8.95
1	D	445:GLU	C	446:SER	N	8.95
1	E	445:GLU	C	446:SER	N	8.95
1	F	445:GLU	C	446:SER	N	8.95
1	A	545:PHE	C	546:PRO	N	8.13
1	B	545:PHE	C	546:PRO	N	8.13
1	C	545:PHE	C	546:PRO	N	8.13
1	D	545:PHE	C	546:PRO	N	8.13
1	E	545:PHE	C	546:PRO	N	8.13
1	F	545:PHE	C	546:PRO	N	8.13
1	A	383:SER	C	384:LEU	N	8.10
1	B	383:SER	C	384:LEU	N	8.10
1	C	383:SER	C	384:LEU	N	8.10
1	D	383:SER	C	384:LEU	N	8.10
1	E	383:SER	C	384:LEU	N	8.10
1	F	383:SER	C	384:LEU	N	8.10
1	A	491:MET	C	492:ALA	N	6.04
1	B	491:MET	C	492:ALA	N	6.04
1	D	491:MET	C	492:ALA	N	6.04
1	E	491:MET	C	492:ALA	N	6.04
1	F	491:MET	C	492:ALA	N	6.04
1	C	491:MET	C	492:ALA	N	6.03
1	A	31:SER	C	32:SER	N	3.46
1	B	31:SER	C	32:SER	N	3.46
1	C	31:SER	C	32:SER	N	3.46
1	D	31:SER	C	32:SER	N	3.46
1	E	31:SER	C	32:SER	N	3.46
1	F	31:SER	C	32:SER	N	3.46

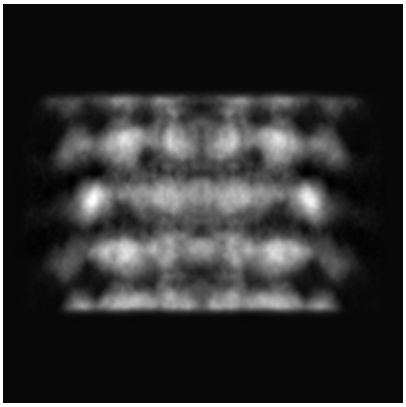
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-4051. These allow visual inspection of the internal detail of the map and identification of artifacts.

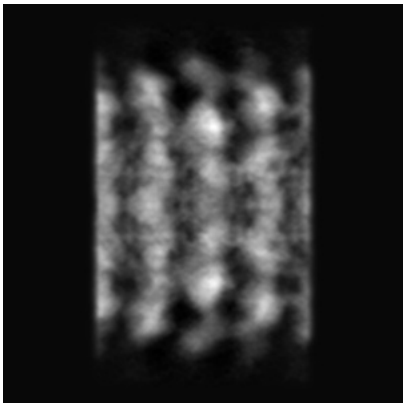
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

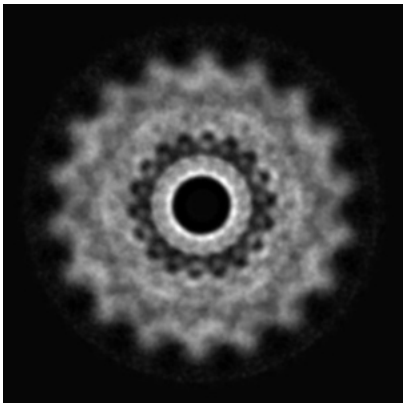
6.1.1 Primary map



X



Y

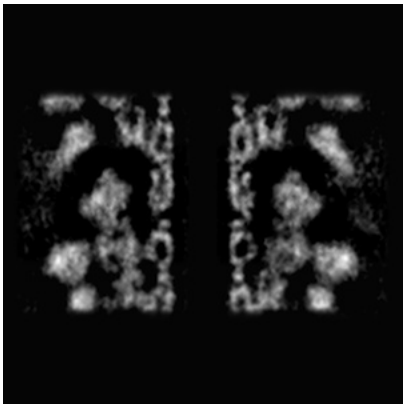


Z

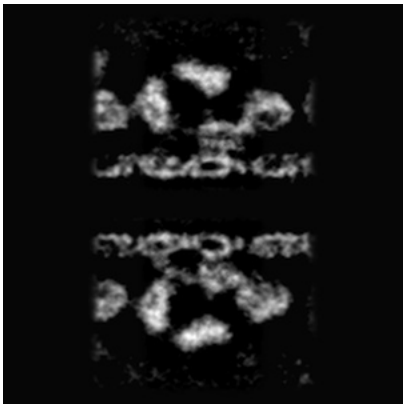
The images above show the map projected in three orthogonal directions.

6.2 Central slices

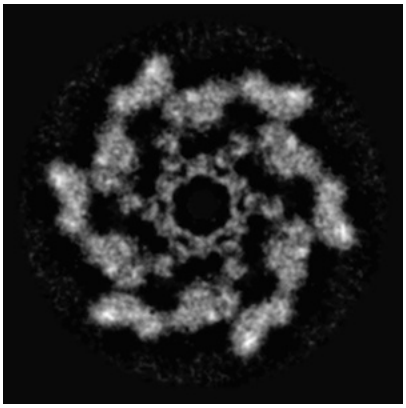
6.2.1 Primary map



X Index: 102



Y Index: 102

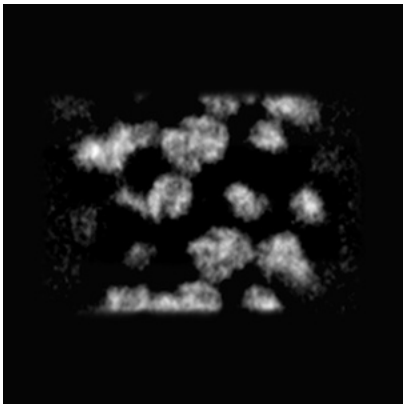


Z Index: 102

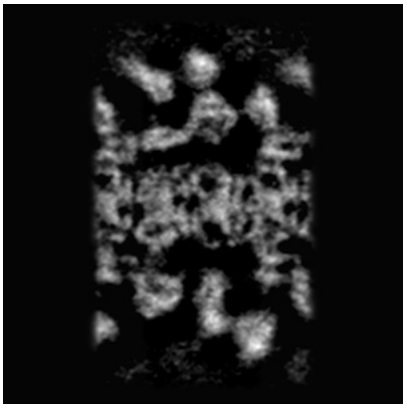
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

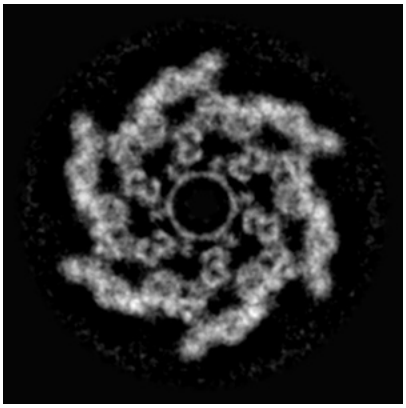
6.3.1 Primary map



X Index: 151



Y Index: 85

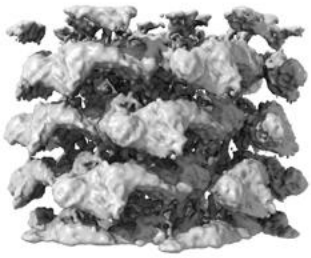


Z Index: 78

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

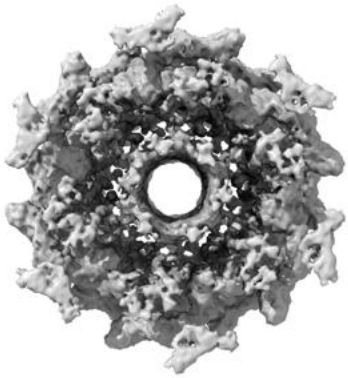
6.4 Orthogonal surface views (i)

6.4.1 Primary map



X

Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.6. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

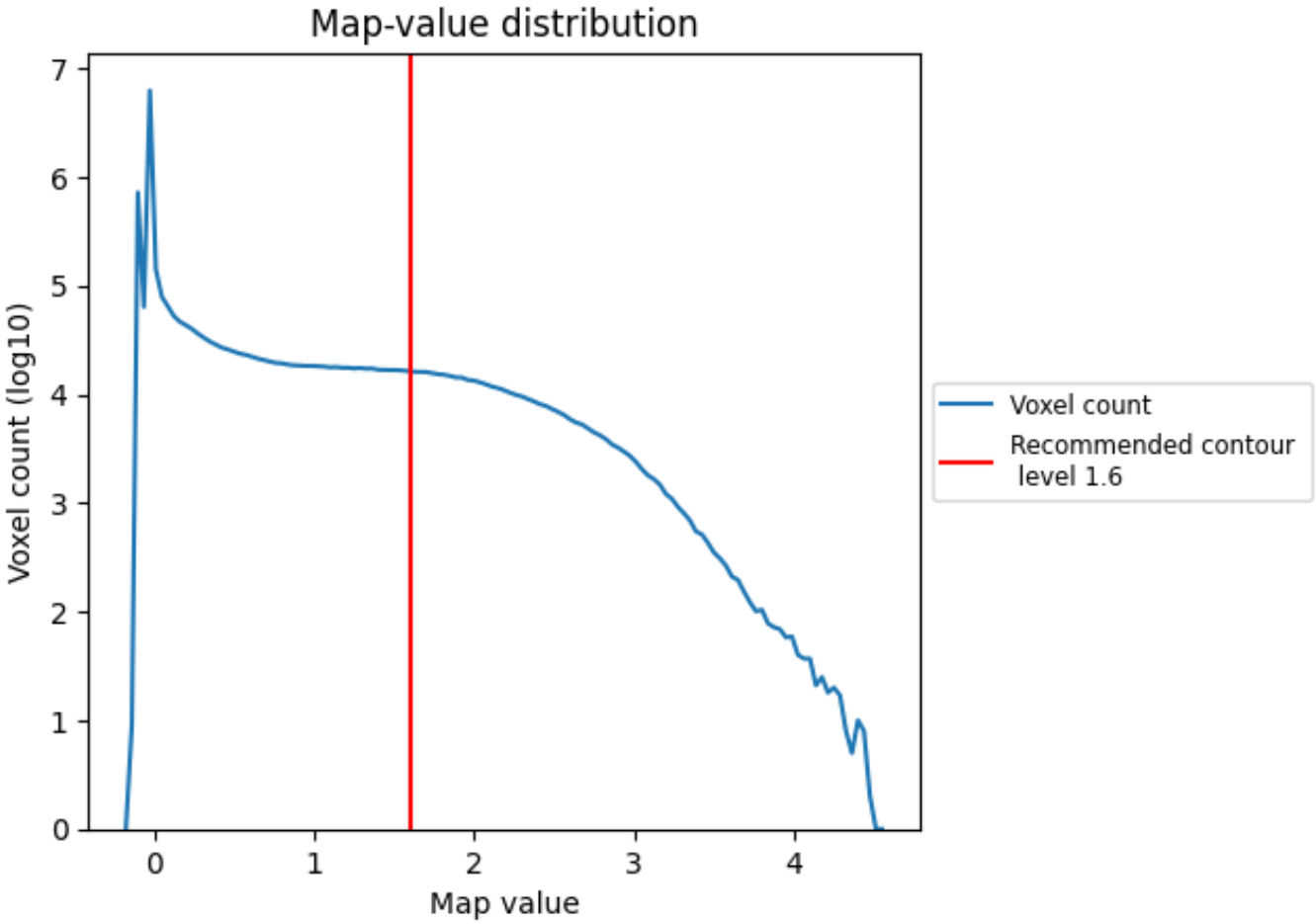
6.5 Mask visualisation (i)

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

7 Map analysis

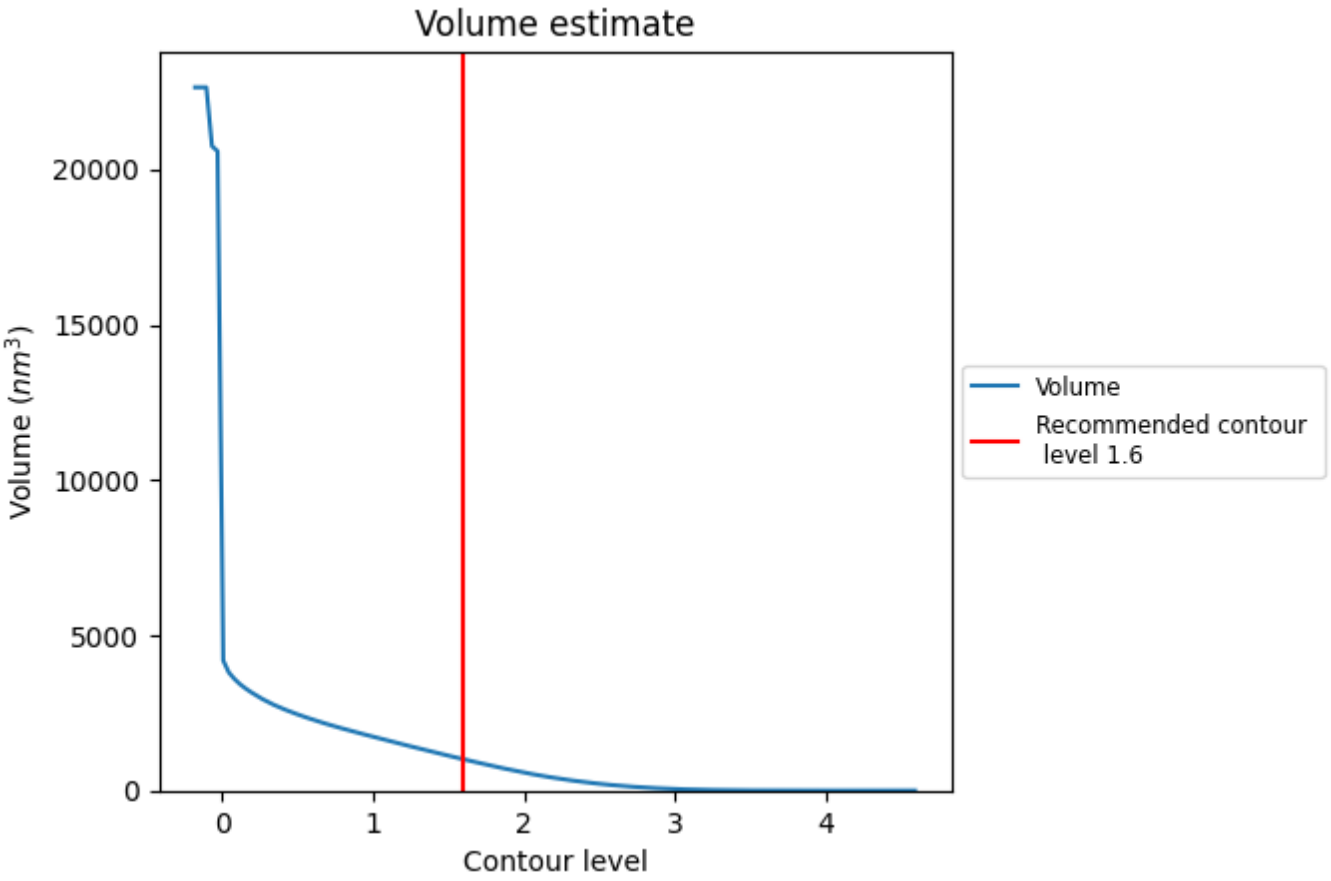
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

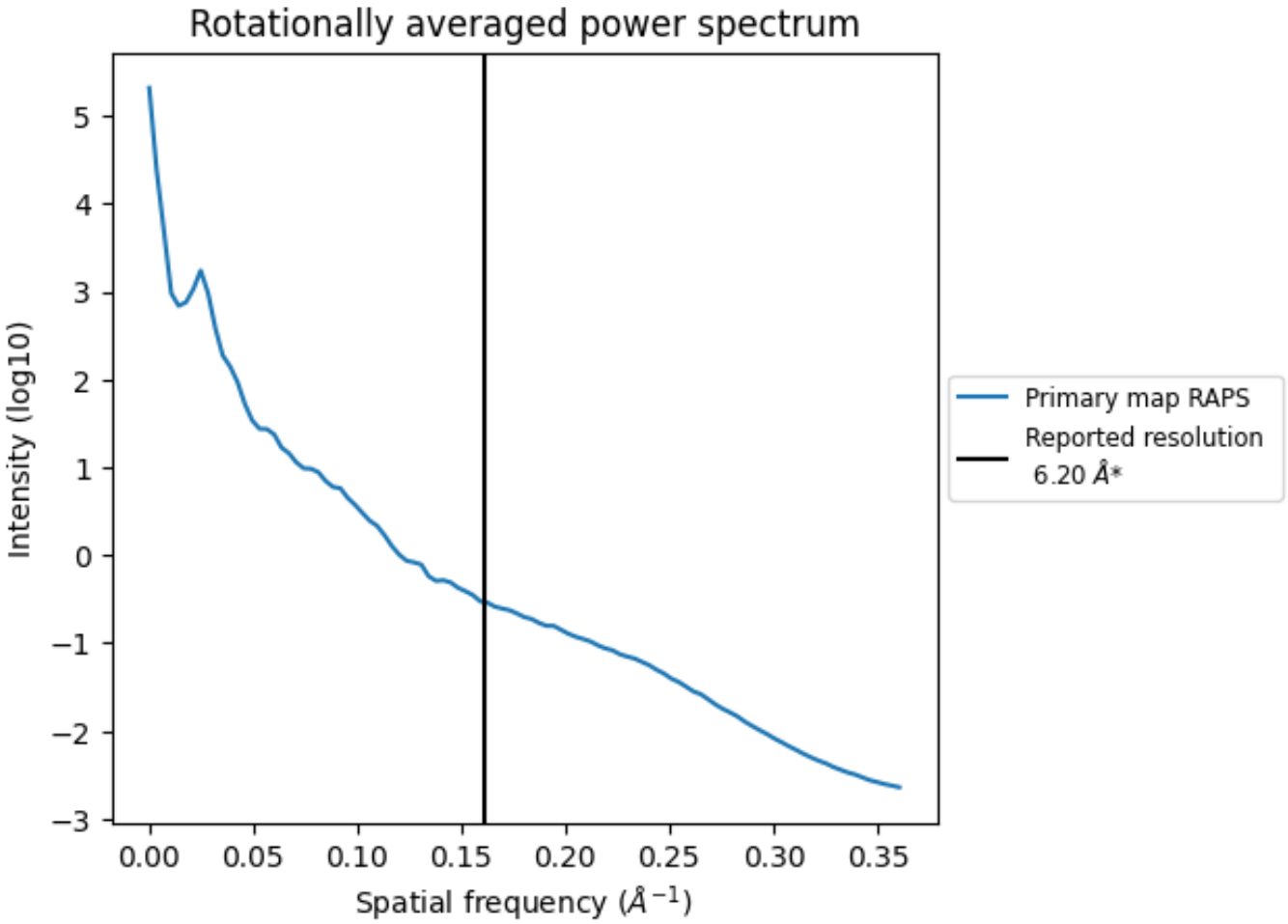
7.2 Volume estimate



The volume at the recommended contour level is 1007 nm^3; this corresponds to an approximate mass of 909 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.161 Å^{-1}

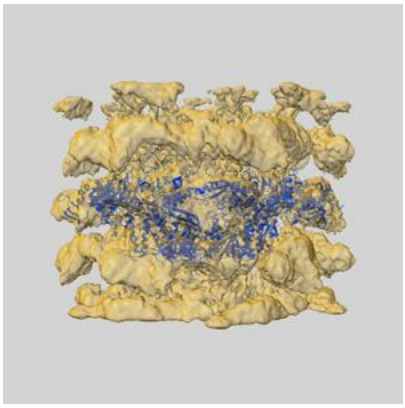
8 Fourier-Shell correlation (i)

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

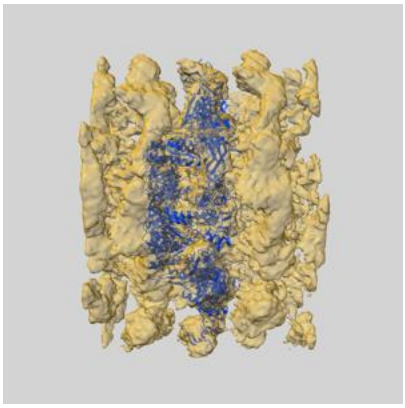
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-4051 and PDB model 5LI2. Per-residue inclusion information can be found in section 3 on page 7.

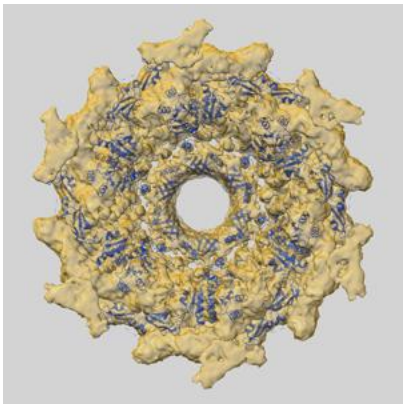
9.1 Map-model overlay



X



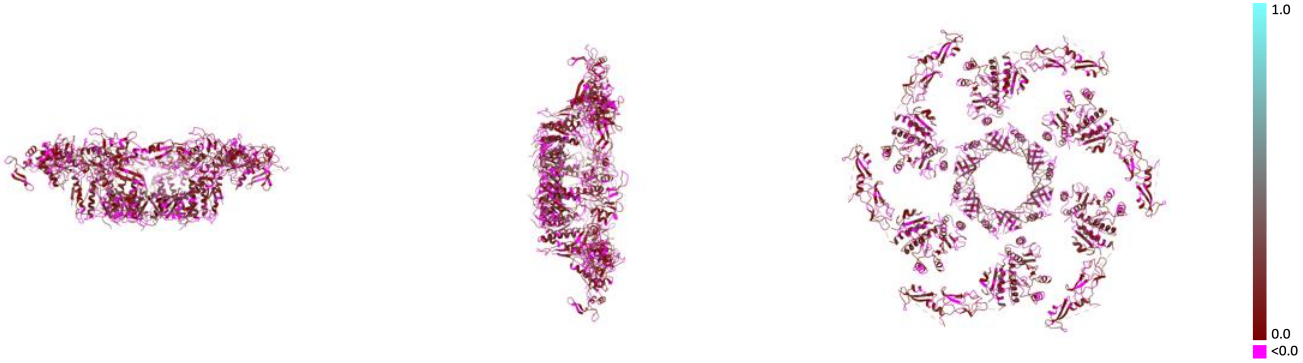
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.6 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

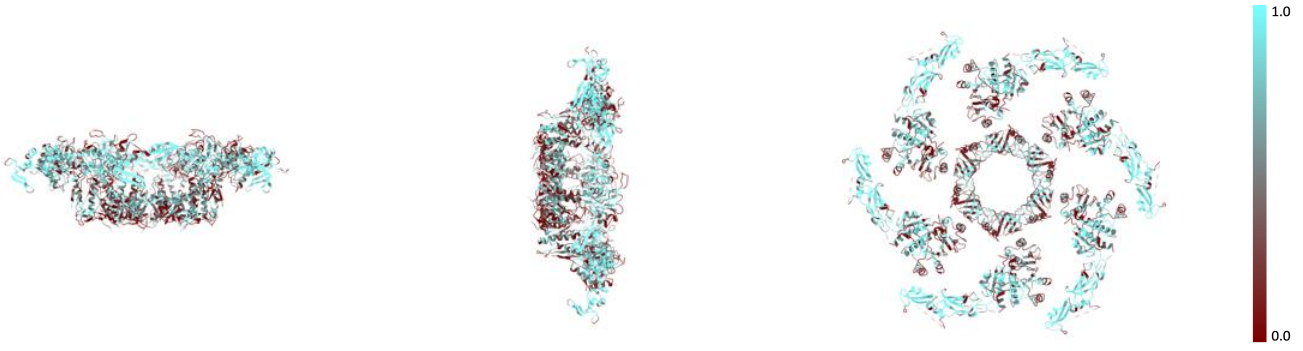
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

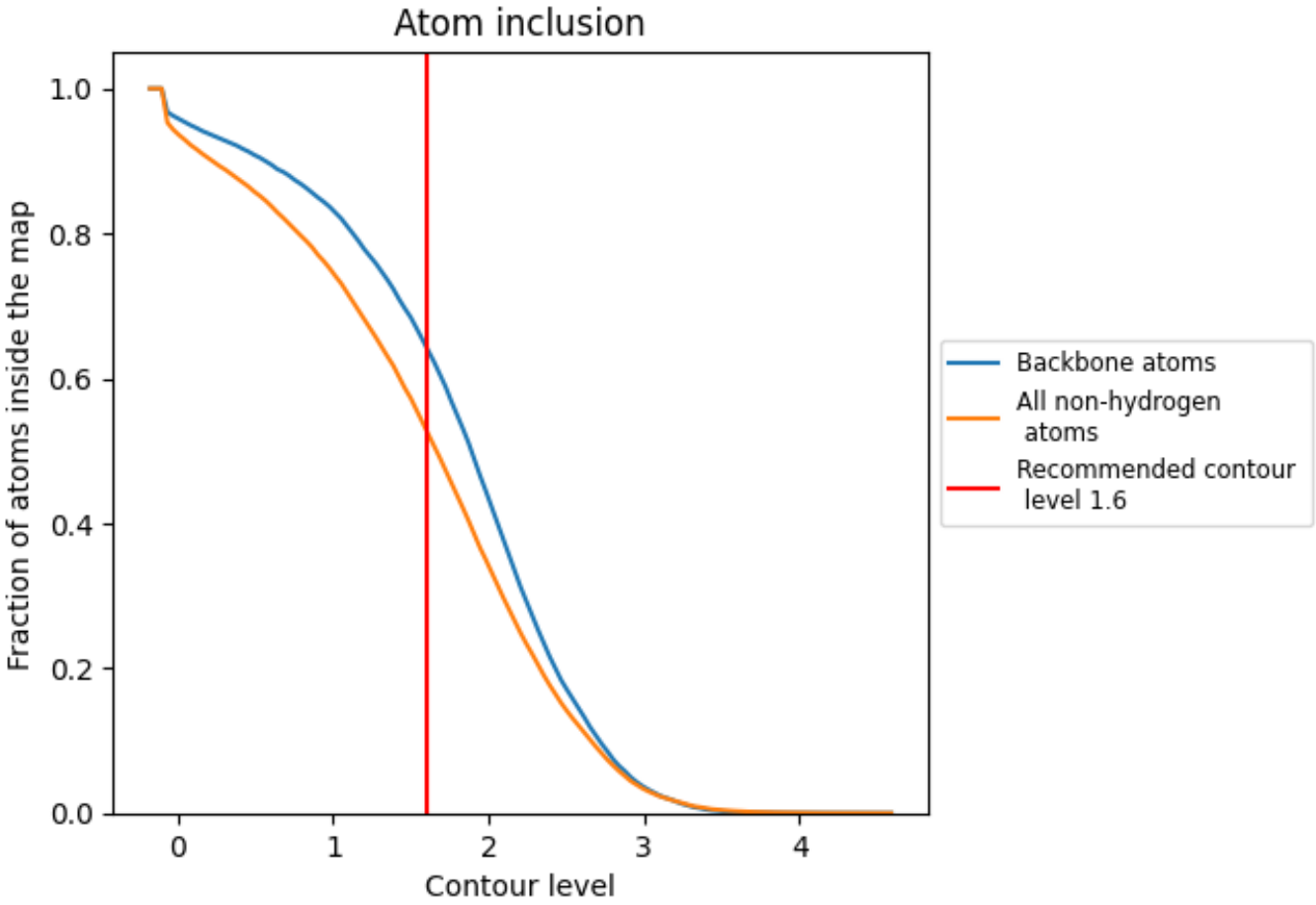
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.6).

9.4 Atom inclusion (i)



At the recommended contour level, 64% of all backbone atoms, 53% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1.6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5282	0.0770
A	0.6010	0.0850
B	0.5906	0.0810
C	0.5669	0.0750
D	0.5528	0.0730
E	0.5544	0.0720
F	0.5757	0.0790
G	0.3719	0.0880
H	0.3407	0.0830
I	0.3121	0.0660
J	0.3095	0.0630
K	0.3212	0.0780
L	0.3511	0.0770